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SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

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Condition of Applications Under Examination at Close of Business April 17, 1953

Total number of patent applications awaiting action, 99,284. Date of oldest new application, July 11, 1952; date of oldest amended application, July 11, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.		3-11-53	6
1. GOLDBERG, A. J., Excavating, Planters, Plows, Harrows and Diggers (part), Plant Husbandry, Scattering Unloaders, sewerage	7-28-52	7-26-52	1559
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying, Presses, Tobacco, Textile Wringers	8-13-52	7-31-52	1191
3. MARMELSTEIN, N., Metal Founding and Treatment, Metallurgy (Process and Apparatus), Heating, Coating or Plastic Composition (part)	8-27-52	8-25-52	1902
4. FALLER, E. A., Hoists, Power Driven Conveyors, Handling Apparatus	8-2-52	7-31-52	1458
5. ROBINSON, C. W., Harvesters, Knotters, Harrows and Diggers (part), Bee Culture, Dairy, Butchering, Animal Husbandry, Fences, Gates	7-24-52	8-11-52	1043
6. SURLE, H., Carbon Chemistry (part)	7-18-52	7-15-52	2530
7. GONSALVES, J. E. (ANDERSON, E. G., Acting), Optics, Photography (part)	7-28-52	7-24-52	1510
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture, Fire Escapes, Ladders, Scaffolds	8-25-52	8-25-52	1136
9. BRANSON, J. H., Pumps and Fans, Fluid Motors	8-11-52	8-6-52	1300
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage, Cloth, Leather and Rubber Receptacles, Bottles and Jars, Paper Receptacles	8-12-52	8-11-52	1285
11. BENHAM, E. V., Boots, Shoes, and Leggings, Button, Eyelet, and Rivet Setting, Cutlery, Leather Manufacture, Nailing and Stapling, Cleaning and Liquid Treatment of Solids	7-29-52	7-23-52	1188
12. SPINTMAN, S., Machine Elements (part), Engine Starters, Motor Control with Clutch or Brake, Transmission with Clutch or Brake	7-21-52	7-23-52	1335
13. BEALL, T. E., Gear Cutting, Milling, Planing, Needle and Pin Making, Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning, Electric Lamp or Discharge Devices, Manufacture or Repair	7-19-52	7-18-52	1325
14. MANIAN, J. C., Fluid Pressure Brakes, Wire Fabrics, Farriery, Metal Working (part)—e. g., Sheet-Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus	8-5-52	8-6-52	1530
15. HENKIN, B., Plastics, Plastic Block and Earthenware Apparatus, Glass	7-22-52	7-17-52	1785
16. LOVEWELL, N. N., Television, Telephony	8-1-52	8-1-52	1510
17. LEIGHEY, R. A., Paper Manufactures, Packaging, Typewriters, Printing, Type Casting and Setting, Sheet Material Association or Folding, Sheet or Web Feeding	7-26-52	7-24-52	1631
18. KUBZ, J. A., Power Plants, Speed Responsive Devices	8-19-52	8-20-52	683
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners, Stoves and Furnaces	7-11-52	7-11-52	1161
20. BROWN, L. M., Miscellaneous Hardware, Closure Fasteners, Locks, Undertaking, Bread, Pastry, and Confection Making, Banking Protection, Safes, Canopies, Umbrellas and Canes	8-6-52	8-11-52	1271
21. MADEB, B. C., Textiles	8-1-52	8-1-52	1245
22. MARLAND, M. L., Aeronautics, Boats, Buoys, Ships, Marine Propulsion, Fluid Current Motors, Fluid Diaphragms and Bellows	7-28-52	8-5-52	986
23. ANDRUS, L. M., Cash Registers, Calculators and Counters, Education	7-26-52	7-28-52	854
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel, Apparel Apparatus, Sewing Machines, Textiles, Ironing or Smoothing	9-8-52	9-8-52	1073
25. NEVIUS, B. D., Classifying Solids, Centrifugal-Bowl Separators, Mills, Threshing, Vegetable and Meat Cutters and Comminutors, Distillation	7-18-52	7-21-52	1236
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants, Elevators	8-20-52	8-18-52	1751
27. JAMES, S., Brushing, Scrubbing and General Cleaning, Brush, Broom and Mop Making	7-29-52	7-21-52	1311
28. BRAUNER, B. H., Motors, Expansible Chamber Type, Internal-Combustion Engines, Cylinders, Pistons, Motors, Spring, Weight, and Animal Powered, Wheel Substitutes, Chutes, Skids, Guides, Ways, Fluid Current Conveyors, Pneumatic Dispatch, Store Service	7-30-52	8-2-52	1103
29. HABECKER, L. B., Button Making, Woodworking, Tools, Fluid Treatment of Textiles (Apparatus)	8-14-52	7-23-52	1162
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing, Automatic Temperature and Humidity Regulation, Thermostats, Humidistats, Heating Systems, Refrigeration; Illuminating Burners	9-4-52	9-4-52	1366
31. HUTCHISON, E. W., Mineral Oils, Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons	7-18-52	7-18-52	2460
32. LE BOY, C. A., Gas and Liquid Contact Apparatus, Heat Exchange, Gas Separation, Agitating, Fluid Pressure Modulators and Self-Proportioning Systems	8-25-52	8-30-52	1334
33. MUSHAKE, W. L., Bridges, Hydraulic and Earth Engineering, Building Structures (part); Roads and Pavements	7-29-52	8-1-52	1818
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders, Electricity, Transmission to Vehicles, Dumping Vehicles, Vehicle Fenders, Hand and Hoist Line Implements	7-25-52	7-18-52	1243
35. BROMLEY, E. D., Dispensing, Filing and Closing Receptacles	9-2-52	9-2-52	1235
36. McFADYEN, A. D., Measuring and Testing	8-8-52	8-11-52	1089
37. LEVY, M. L., Electricity-Switches, Welding, Heating, Recorders	8-12-52	8-14-52	2003
38. ARNOLD, D., Coating Processes and Apparatus, Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part)	8-11-52	7-29-52	1537
39. WEIL, I., Fluid-Pressure Regulators, Valves, Fluid Handling (part)	10-7-52	10-7-52	1740
40. DRUMMOND, E. J., Receptacles (part), Packages	11-1-52	11-1-52	1044
41. GURLEY, R. B., Check Controller Apparatus, Coin Handling, Article Dispensing Cabinets, Deposit Receptacles, Buckles, Buttons, Clasps	8-15-52	8-28-52	866

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection, Signals, Telegraph (part), Signals and Indicators	s 12-52	s 30-52	1032
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics, Sugar and Starch, Bleaching, Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part	s 12-52	s 11-52	1502
44. COBLE, A. S. (Acting), Beds, Chairs, Seats	s 23-52	s 23-52	1416
45. MANIAN, J. A., Wheels, Tires, and Axles, Railway Wheels and Axles, Lubrication, Bearings and Guides, Belt and Sprocket Gearing, Spring Devices; Animal Draft Appliances	7 30-52	7 21-52	1048
46. O'LEARY, R. A., Concentrating Evaporators, Fire Extinguishers, Liquid Heaters and Vaporizers, Building Structures (Doors, Windows, Awnings and Shutters), Kitchen and Table Articles, Liquid Level Responsive Systems	7 24-52	7 23-52	1675
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting, Motor Vehicles, Land Vehicles (part	7 15-52	7 24-52	1672
48. BERNSTEIN, S., Electricity, General Applications, Conversion Systems, Electric Igniters, Card and Picture Exhibiting	s 11-52	s 9-52	1281
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids, Ventilation, Wells, Earth Boring	10 1-52	9 26-52	1567
50. BENGEL, W. G., Synthetic Resins; Rubber	7 23-52	7 22-52	1709
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling), Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control), Modulators, Music, Piezoelectric Crystals	9 4-52	9 4-52	1883
52. WHITNEY, F. I., Supports, Joint Packing, Valved Pipe Joints or Couplings, Rod Joints or Couplings, Tool Handle Fastenings, Pipes and Tubular Conduits	s 30-52	s 30-52	1011
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making, Manifolding, Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable, Harness, Package and Article Carriers; Whip Apparatus	s-4-52	s 1-52	1821
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Light Sensitive Circuits, Ray Energy Applications	s 5-52	s 5-52	997
55. KLINE, J. R., Artificial Body Members, Dentistry, Surgery; Toilet	s 23-52	s 28-52	1296
56. COCKERILL, S., Electrical and Wave Energy Chemistry, Liquid Separation or Purification	9 18-52	9 12-52	1679
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshow Making; Driven and Screw Fastenings; Nut and Bolt Locks, Jewelry; Pipe Joints or Couplings	7 28-52	7 18-52	1370
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements, Stone Working, Abrading Processes and Apparatus; Food Apparatus, Closure Operators, Baths, Closets, Sinks and Spittoons	s 13-52	s 18-52	1360
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating			
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 O.G. 994	s s-52	7 30-52	1044
61. STRIZAK, J. P. (Acting), Winding and Reeling, Pushing and Pulling, Horology; Time Controlling Apparatus; Railway Mail Delivery	9-2-52	s 28-52	1151
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices, Mechanical Guns and Projectors	s-1-52	7 29-52	1850
63. WINKELSTEIN, A. B., Fermentation, Foods and Beverages, Carbon Chemistry (part	7 28-52	7 21-52	1842
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	s 19-52	s 26-52	1302
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors, Illumination	s 2-52	s 1-52	836
66. LISANN, I., Geometrical Instruments; Automatic Weighers, Weighing Scales	s 16-52	s 13-52	1757
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products, Ornamentation, Paper Making	9 23-52	9 18-52	1337
68. BERMAN, H., Chunks or Sockets; Shafting and Flexible Couplings, Clutches and Power stop Control, Brakes; Boring and Drilling	s 15-52	s 16-52	1113
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording	7 11-52	7 16-52	3332
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers	12 18-52	1 2-53	830
DESIGNS: A—BREHM, G. L., Industrial Arts; B—GRAY, M. A., Household, Personal and Fine Arts	12 26-52	1 14-53	681

Number of new applications filed for the week ending April 3, 1953 *

PATENTS 1,542 DESIGNS 117 REISSUES 1 TOTAL 1,660

Total number of trade-mark applications awaiting action (including renewals and republications), 11,533. Date of oldest new application, Nov. 11, 1952, date of oldest amended application, Nov. 11, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	11-11-52	11-11-52	2875
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	12-1-52	12-1-52	2550
Renewals (All Classes)	2-20-53	3-30-53	548
Republications (All Classes)	2-17-53	2-17-53	295
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	11-28-52	11-19-52	2670
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	11-19-52	11-21-52	2595

*Erratum.—In the OFFICIAL GAZETTE for April 28, 1953, the week ending date for the applications filed should read *March 27, 1953*, instead of "April 10, 1953."

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

AP Parts Corporation, The, Toledo, Ohio. Organic solvent liquid carriers for the dispersion of solid lubricants. Serial No. 634,955, May 5. Class 6.

A. P. V. Co., Ltd., London, England. Combined system of machines for pasteurizing and cooling milk, fruit juices, and wines. Serial No. 614,915, May 5. Class 34.

Adventure Toys, Palo Alto, Calif. Alphabetical toy blocks. Serial No. 640,029, May 5. Class 22.

Aeroplane Spinner Manufacturing Co. *See* Scanlan, Elizabeth S.

Ahern, Jack A., executor. *See* Nash, David D.

Albers Milling Company, Los Angeles, Calif. Poultry feed. Serial No. 601,859, May 5. Class 46.

Allied Fruit & Extract Co., Inc., New York, N. Y. Jams, jellies, crushed, broken, and whole fresh fruits, etc. Serial No. 570,399, May 5. Class 46.

Alrose Chemical Company, Cranston, R. I. Hard synthetic wax. Serial No. 621,116, May 5. Class 6.

Amer, William, Company, Philadelphia, Pa. Leather. Serial No. 632,193, May 5. Class 1.

American Air Filter Company, Inc., Louisville, Ky. Self cleaning mechanical dust collectors. Serial No. 637,811, May 5. Class 31.

American Brass Company, The, Waterbury, Conn. Metal tubing. Serial No. 635,805, May 5. Class 13.

American Chemical Paint Company, Ambler, Pa. Chemical preparations. Serial No. 638,234, May 5. Class 6.

American Home Products Corporation, assignee. *See* Wyeth Incorporated.

American Ribbon & Carbon Co., Inc., Rochester, N. Y. Typewriter ribbons and carbon paper. Serial No. 634,231, May 5. Class 11.

American Ribbon & Carbon Co., Inc., Rochester, N. Y. Duplicating inks, carbon paper and typewriter ribbons. Serial No. 634,725, May 5. Class 11.

Ampower Products Co., Oak Lawn, Ill. Portable electric spot welders. Serial No. 627,816, May 5. Class 21.

Archer Mills, Inc., Columbus, Ga. Ladies' hosiery. Serial No. 636,580, May 5. Class 39.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Liquid synthetic rubber coating composition. Serial No. 631,400, May 5. Class 16.

Austam Manufacturing Corporation, New York, N. Y. Cigarette lighters. Serial No. 636,624, May 5. Class 8.

Automatic Pump & Softener Corporation, Rockford, Ill. Water treatment apparatus. Serial No. 619,597, May 5. Class 23.

Avon Publishing Co. Inc., New York, N. Y. Books. Serial No. 634,518, May 5. Class 38.

Beckerman, George, Great Neck, N. Y. Women's and misses nightgowns, and negligee and nightgown ensembles. Serial No. 631,781, May 5. Class 39.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. Serial No. 602,487, May 5. Class 2.

Berke Brothers Distilleries Inc., Boston, Mass. Wines. Serial Nos. 580,394-5, May 5. Class 47.

Berkshire Knitting Mills, Wyomissing and Reading, Pa. Women's full-fashioned hosiery. Serial No. 623,869, May 5. Class 39.

Berwyn Chemical Company, Incorporated, Berwyn, Pa. Compounds for exterminating lice and bugs. Serial No. 565,166, May 5. Class 6.

Beryllium Corporation, The, Reading, Pa. Welding accessories. Serial No. 632,915, May 5. Class 21.

Bicon Thumb Tack Company, The, Waterbury, Conn. Thumb tacks. Serial No. 622,578, May 5. Class 13.

Block, H. & J., Inc., New York, N. Y. Infants' and children's wear. Serial No. 636,509, May 5. Class 39.

Boone Valley Farm, Defiance, Mo. Field grains. Serial No. 600,160, May 5. Class 46.

Borg Warner Corporation, Chicago, Ill. Nonelectric brakes and brake assemblies, chain and sprocket drive mechanisms, carburetors, etc. Serial No. 589,558, May 5. Class 23.

Boston Quilting Corp., Franklin, Mass. Quilted innerlinings. Serial No. 601,883, May 5. Class 42.

Brainerd Bait Co., St. Paul, Minn. Artificial bait. Serial No. 633,528, May 5. Class 22.

Brandao & Companhia, Limitada, Matosinhos, Portugal. Canned, pickled, salted, smoked, and preserved fish, canned shellfish, etc. Serial No. 622,197, May 5. Class 46.

Broadcasting Publications, Inc., Washington, D. C. Periodicals. Serial No. 635,171, May 5. Class 38.

Bros. Wm., Boiler & Manufacturing Co., Minneapolis, Minn. Pneumatic tired road rollers. Serial No. 623,862, May 5. Class 23.

Bubble-O-Bill Corporation, Los Angeles, Calif. Bubble pipes. Serial No. 643,026, May 5. Class 22.

Buck Engineering Company, Inc., Freehold, N. J. Racks, stands, and tables. Serial No. 604,354, May 5. Class 32.

Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Typewriter ribbons, carbon paper, carbonized rolls. Serial No. 608,743, May 5. Class 11.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. Serial No. 637,360, May 5. Class 39.

Burt, Ralph E., doing business as Ralph E. Burt Associates, Springfield, Mass. Consulting services to manufacturers. Serial No. 624,813, May 5. Class 100.

Burt, Ralph E., Associates. *See*— Burt, Ralph E.

Buzza-Cardozo, Los Angeles, Calif. Greeting cards. Serial No. 638,132, May 5. Class 38.

C. Schous Fabriker A/S, Copenhagen, Denmark. Electrical and magnetized phonograph records, recording wire, and recording tape. Serial No. 637,523, May 5. Class 21.

C. Schous Fabriker A/S, Copenhagen, Denmark. Electrical and magnetized phonograph records, recording wire, and recording tape. Serial No. 637,525, May 5. Class 21.

Cadnic Corporation, Denver, Colo. Storage batteries. Serial No. 637,237, May 5. Class 21.

Calgon, Incorporated, Pittsburgh, Pa. Cleansing and detergent compound. Serial No. 636,271, May 5. Class 52.

Cananea Consolidated Copper Co., S. A., The, Cananea, Sonora, Mexico. Copper. Serial No. 639,262, May 5. Class 14.

Caryl Leslie Creations, Philadelphia, Pa. Pantie girdles. Serial No. 619,248, May 5. Class 39.

Chase, Sallie, Incorporated, Newton, Conn. Fruit cake, stuffed dates, pfeffernuesse cookies, etc. Serial No. 639,807, May 5. Class 46.

Chem Products, Inc., Hartford, Conn. Coating material. Serial No. 606,698, May 5. Class 16.

Chicago Tribune-New York News Syndicate, Inc., New York, N. Y. Series of cartoons. Serial No. 636,688, May 5. Class 38.

Cleveland Hobbing Machine Company, The, Euclid, Ohio. Hobbing machines. Serial No. 624,227, May 5. Class 23.

Cohen, Edward, Pittsburgh, Pa. Mattresses, bed springs, beds, etc. Serial No. 634,299, May 5. Class 32.

Colorado Fuel and Iron Corporation, The, Denver, Colo. Wire rope. Serial No. 638,755, May 5. Class 7.

Colorado Fuel and Iron Corporation, The, Denver, Colo. Metal rails, joints, and tie plates. Serial No. 638,837, May 5. Class 14.

Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Chemical additives. Serial No. 631,722, May 5. Class 6.

Comunidad Viña San José-Tocornal, Santiago, Chile. Wines. Serial No. 618,082, May 5. Class 47.

Con-Cor Paint Company, Kansas City, Mo. Oil-base, exterior wall coating. Serial No. 633,301, May 5. Class 16.

Congoleum-Nairn Inc., Kearny, N. J. Flexible floor and wall coverings. Serial No. 629,652, May 5. Class 20.

Consolidated Products Company, Danville, Ill. Poultry feed. Serial No. 618,845, May 5. Class 46.

Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coated paper. Serial No. 636,841, May 5. Class 37.

Cortland Line Company, Inc., Cortland, N. Y. Fishing lines. Serial No. 642,732, May 5. Class 22.

Crabbie, John, & Co. Limited, Leith, Scotland. Scotch whiskey. Serial No. 557,430, May 5. Class 49.

Crown Zellerbach Corporation, San Francisco, Calif. Paper napkins, facial tissue, waxed paper, etc. Serial No. 637,268, May 5. Class 37.

Dalton, Inc., Cleveland, Ohio. Women's sweaters. Serial No. 614,425, May 5. Class 39.

David Woodcraft Co.: *See* Ostrow, Nathan

Davis Fishing Tackle Co.: *See*— Davis, Lester M.

Davis, Lester M., doing business as Davis Fishing Tackle Co., Tacoma, Wash. Fishing tackle. Serial No. 640,674, May 5. Class 22.

De Erve H. de Jong N. V., Wormerveer, Netherlands. Chocolate candies. Serial No. 612,851, May 5. Class 46.

Dental Fillings Limited, London, England. Filling material for the manufacture of permanent fillings and for the construction of crowns, facings, and inlays in dentistry. Serial No. 622,814, May 5. Class 44.

Diamond Calk Horseshoe Co., Duluth, Minn. Pitching shoes. Serial Nos. 634,966-7, May 5. Class 22.

Dickson Fuel Corp., Philadelphia, Pa. Coal. Serial No. 632,509, May 5. Class 1.

Diet Foods, Inc., San Francisco, Calif. Dietary food products. Serial No. 629,655, May 5. Class 46.

Dog Life Corporation, assignee: *See*— Ottawa Foods.

Dome Chemicals, Inc., New York, N. Y. Medicinal preparations. Serial No. 635,174, May 5. Class 18.

Dow Chemical Company, The, Midland, Mich. p-Chlorophenyl p-chlorobenzenesulfonate. Serial No. 641,279, May 5. Class 6.

Dow Corning Corporation, Midland, Mich. High temperature paints, weather resistant paints, resins, etc. Serial No. 619,817, May 5. Class 16.

Duffey, Thomas E., West Palm Beach, Fla. Vaporizers in the nature of spring clamp fitted containers. Serial No. 618,347, May 5. Class 13.

Dunham, C. A., Company, Chicago, Ill. Finned tube convectors. Serial No. 586,688, May 5. Class 34.

Dunn, W. E., Manufacturing Company, Holland, Mich. Admixture for concrete comprising water repellent, plasticizer and air entraining agent. Serial No. 611,024, May 5. Class 6.

Dupli-Color Products Co., Inc., Chicago, Ill. Plastic coating sprays. Serial No. 619,930, May 5. Class 16

Dupont, M. H., Dental Mfg. Co.: *See*—
Dupont, Maurice H.

Dupont, Maurice H., doing business as M. H. Dupont Dental Mfg. Co., Lowell, Mass. Powders comprising methyl methacrylate polymer and liquids, etc., which may be used for the relining and repair of dentures. Serial No. 621,874, May 5. Class 44.

Dupuis Sons, & Co. Inc., New York, N. Y. Weekly periodical. Serial No. 635,821, May 5. Class 38.

Duro-Test Corporation, North Bergen, N. J. Fluorescent sign lamps, and combinations of fluorescent lighting fixtures and fluorescent sign lamps. Serial No. 626,075, May 5. Class 21.

Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo. Electrical, air-deodorizing apparatus. Serial No. 634,971, May 5. Class 21.

Economica Laboratory, Inc., St. Paul, Minn. Dishwashing compound. Serial No. 609,342, May 5. Class 52.

Editors Syndicate: *See*—
Wisbengrad, Hyman.

Efef Trading Company: *See*—
Friedman, Salom.

El Chico Cafe, Dallas, Tex. Canned goods. Serial No 637,099, May 5. Class 46.

Enthone, Incorporated, New Haven, Conn. Composition for cleaning and etching aluminum. Serial No. 638,196, May 5. Class 52.

Esquire, Inc., Chicago, Ill. Calendars. Serial No. 625,726, May 5. Class 38.

Esquire, Inc., Chicago, Ill. Calendars and a section or feature in a periodical publication. Serial No. 625,727, May 5. Class 38.

Estellite Company, Inc., Hoosick Falls, N. Y. Electronic deodorizers. Serial No. 635,354, May 5. Class 21.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Metallic solder. Serial No. 639,164, May 5. Class 14.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Metallic welding electrodes and gas welding rods. Serial No. 639,750, May 5. Class 14.

P. Pannertz Schmirgelwerk Kommanditgesellschaft (Inc.), Hann.-Muenden, Germany. Coated abrasives. Serial No. 625,779, May 5. Class 4.

Faber, A. W., Inc.: *See*—
Faber-Castell, A. W., Pencil Company, Incorporated.

Faber-Castell, A. W., Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc. Mechanical pencils. Serial No. 504,346, May 5. Class 37.

Faber, Eberbard, Pencil Company, Brooklyn, N. Y. Fountain pen nibs. Serial No. 637,305, May 5. Class 37.

Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfort-on-the-Main-Hochst, Germany. Chemical products. Serial No. 622,711, May 5. Class 6.

Flex-O-Lators, Inc., Carthage, Mo. Metal spring wire pads used in articles of furniture. Serial No. 580,779, May 5. Class 32.

Fluorescent Fabricators: *See*—
Easy-Eye Lighting, Inc.

Fort Industry Company, The, Birmingham, Mich., now by change of name Storer Broadcasting Company. Advertising the goods and services of others. Serial No 625,471, May 5. Class 101.

Frager, A. M., & Co.: *See*—
Frager, Alfred M.

Frager, Alfred M., doing business as A. M. Frager & Co., St. Louis, Mo. Ladies' hosiery. Serial No. 636,228, May 5. Class 39.

Frankenmuth Brewing Company, Frankenmuth, Mich. Beer. Serial No. 627,061, May 5. Class 48.

Franklin Furniture Company, The, Columbiana, Ohio. Household furniture. Serial No. 617,144, May 5. Class 32.

Freeman Chemical Corporation, Saukville, Wis. Varnishes and synthetic resins. Serial No. 622,493, May 5. Class 16.

Freeman, Edwin M.: *See*—
Freeman, Mildred A.

Freeman, Mildred A., executrix of the estate of her husband E. M. Freeman, deceased, Denver, Colo. Cleaning, polishing, and applying a finishing film to an automobile. Serial Nos. 540,400–1, May 5. Class 103.

Friedlander, Thomas A., Baltimore, Md. Seating furniture and seating furniture frames. Serial Nos. 634,461–3, May 5. Class 32.

Friedman, Salom, doing business under the name of Efef Trading Company, New York, N. Y. Ladies' hosiery. Serial No. 636,699, May 5. Class 39.

Frommelt, Cyril P., doing business as Frommelt Industries, Dubuque, Iowa. Laminated cloth and foil material. Serial No. 615,891, May 5. Class 42.

Frommelt Industries: *See*—
Frommelt, Cyril P.

Gallaher Company, The, Omaha, Nebr. Electric exhaust fans. Serial No. 614,826, May 5. Class 21.

Galveston-Houston Breweries, Inc., Galveston, Tex. Beer. Serial No. 632,027, May 5. Class 48.

General Bronze Corporation, assignee: *See*—
Selmix Dispenser Corporation.

General Electric Company, Schenectady, N. Y. Organosiloxane resin paint ingredients; organosiloxane fluids for use in paints, etc. Serial No. 630,886, May 5. Class 16.

General Electric Company, Schenectady, N. Y. Organosiloxane resin paint ingredients; organosiloxane fluids for use in paints, etc. Serial No. 630,888, May 5. Class 16.

General Motors Corporation, Detroit, Mich. Reflectors. Serial No. 634,585, May 5. Class 34.

Gillette Company, The, Boston, Mass. Safety razors and safety razor blades. Serial No. 639,733, May 5. Class 23.

Gilium, Ray, Enterprises, Inc., Baltimore, Md. Advertising the goods and services of others. Serial No. 626,029, May 5. Class 101.

Girard Paint and Varnish Mfg. Co., Philadelphia, Pa. Flat wall paints, exterior house paints, exterior house paint primers, etc. Serial No. 635,648, May 5. Class 16.

Golden State Brush Company, North Hollywood, Calif. Paint brushes. Serial No. 630,205, May 5. Class 29.

Grant, W. T., Company, New York, N. Y. Women's and misses' blouses, dresses, sweaters, etc. Serial No. 635,915, May 5. Class 39.

Green, James X., doing business under the fictitious name and style of Key Manufacturing Co., Glendale, Calif. Bottle openers and closers. Serial No. 637,274, May 5. Class 23.

Gritton, Blanche, Chicago, Ill. Women's and children's wearing apparel. Serial No. 609,128, May 5. Class 39.

Grove Company, The, St. Louis, Mo. Storm coats. Serial No. 636,231, May 5. Class 39.

H & S Sales Company, Eureka, Ill. Protective spray coating. Serial No. 622,594, May 5. Class 16.

Hancock, John, Manufacturing Company, San Diego, Calif. Indoor and outdoor furniture. Serial No. 623,886, May 5. Class 32.

Hartman Beverage Company, Knoxville, Tenn. Non-alcoholic maltless beverages. Serial No. 568,618, May 5. Class 45.

Hartmann, Ernest A., doing business under the name of The Motolax Company, Buffalo, Iowa. Graphite additive for improving lubricating oil. Serial No. 630,300, May 5. Class 15.

Hell-Coil Corporation, Danbury, Conn. Magazine. Serial No. 637,823, May 5. Class 38.

Henderize, Inc., Sacramento, Calif. Plastic base mineral pigment spray coating. Serial No. 626,084, May 5. Class 16.

Hettrick Manufacturing Company, The, Toledo, Ohio. Sweaters, basque shirts, shirts, etc. Serial No. 599,945, May 5. Class 39.

Hoffman Lion Mills Company, Incorporated, Fall River, Mass. Kites. Serial No. 627,880, May 5. Class 22.

Hoosierland Orchards: *See*—
Madigan, Paul J.

Hoover Company, The, North Canton, Ohio. Electric irons. Serial No. 634,468, May 5. Class 21.

Hosiery Sales Company, New York, N. Y. Ladies' and misses' hosiery. Serial No. 634,469, May 5. Class 39.

Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. Serial No. 639,822, May 5. Class 19.

Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. Serial Nos. 639,824–5, May 5. Class 19.

Huntington Laboratories, Inc., Huntington, Ind. Periodic publication. Serial No. 636,014, May 5. Class 38.

Hurst, Clay E., doing business as Hurst Company, Chincoteague, Va. Undulatory merry-go-round. Serial No. 639,567, May 5. Class 22.

Hurst Company: *See*—
Hurst, Clay E.

International Rectifier Corporation, Los Angeles, Calif. Electrical rectifying elements. Serial No. 623,278, May 5. Class 21.

International Standard Trading Corporation, New York, N. Y. Electromechanical intelligence analyzing apparatus. Serial No. 624,086, May 5. Class 21.

Jack, Isabelle B., doing business as Rainbow Rembrandts Studios, Fallbrook, Calif. Sets of color charts. Serial No. 635,968, May 5. Class 38.

Jacobs, Max M., doing business as Midnight Attractions, Cleveland, Ohio. Entertainment services. Serial No. 634,471, May 5. Class 107.

Jersey Manufacturing Company: *See*—
Milo, John J.

Johnston, Everett, doing business as King Salad Avocado Co., Vista and Fallbrook, Calif. Fresh avocados. Serial No. 624,137, May 5. Class 46.

Jolly Kids Togs, Chicago, Ill. Infants' sleeping garments. Serial No. 616,174, May 5. Class 39.

Kalbfell Laboratories, Inc., San Diego, Calif. Logarithmic attenuators. Serial No. 635,041, May 5. Class 21.

Kay Electric Company, Pine Brook, N. J. Instrument which is a sub-audio and audio spectrograph. Serial No. 613,454, May 5. Class 26.

Kay-Ess Lighter Corporation, New York, N. Y. Pocket and table cigarette lighters. Serial No. 621,318, May 5. Class 8.

Keith, Robert M., Jr., Laurel, Miss. Coil and mountings for use in lieu of or in conjunction with radio antenna. Serial No. 623,549, May 5. Class 21.

Kemp, E. F., Corp., Somerville and Winter Hill, Somerville, Mass. Salted and unsalted nuts and peanut butter spread. Serial No. 639,936, May 5. Class 46.

Kemp, E. F., Corp., Somerville and Winter Hill, Somerville, Mass. Salted and unsalted nuts. Serial No. 639,937, May 5. Class 46.

Kemp, E. F., Corp., Somerville and Winter Hill, Somerville, Mass. Salted and unsalted nuts and peanut butter spread. Serial No. 639,938, May 5. Class 46.

Key Manufacturing Co.: *See*—
Green, James X.

Keyes Fibre Company, Portland and Waterville, Maine. Molded pulp packing trays. Serial No. 610,176, May 5. Class 2.

King Salad Avocado Co.: *See*—
Johnston, Everett.

Knapp-Monarch Company, St. Louis, Mo. Valved containers charged with insecticide and gas under pressure. Serial No. 632,729, May 5. Class 6.

Knoten Company, The, Memphis, Tenn. Synthetic detergent powder. Serial No. 634,413, May 5. Class 52.

Kromex Corporation, Cleveland, Ohio. Lazy Susan relish dish, lazy Susan, etc. Serial No. 626,995, May 5. Class 13.

Landau, Abraham, New York, N. Y. Women's and girls' hosiery. Serial No. 634,201, May 5. Class 39.

La Resista Corset Company, The, Bridgeport, Conn. Brassières. Serial No. 638,723, May 5. Class 39.

Laverne: *See*—
Pociask, Jeanne L.

Lawter Chemicals, Inc., Chicago, Ill. Fluorescent paint. Serial No. 602,810, published May 5. Class 16.

Leslie Co., Lyndhurst, N. J. Temperature-controlled valves, pressure operated and thermostatically operated valves, etc. Serial No. 600,543, published May 5. Class 26.

Livetex, Inc., Philadelphia, Pa. Rubber threads and rubber yarns. Serial No. 638,656, published May 5. Class 43.

Lubin-Weeker Co., Inc., New York, N. Y. Men's and women's pajamas. Serial No. 619,251, published May 5. Class 39.

Madigan, Paul J., doing business under the name Hoosierland Orchards, Anderson, Ind. Apple cider. Serial No. 601,550, published May 5. Class 45.

Maintenance Inc., Wooster, Ohio. Corrosion control composition comprising a paint. Serial No. 578,457, published May 5. Class 16.

Malis Leather Company, Philadelphia, Pa. Leather. Serial No. 635,368, published May 5. Class 1.

Malt-A-Plenty, Inc., Tulsa, Okla. Paper drinking straws. Serial No. 625,482, published May 5. Class 50.

Manchester Hosiery Mills, Roston, Mass. Ladies' stockings. Serial No. 604,374, published May 5. Class 39.

Mandarin Textiles Limited, Kowloon, Hong Kong. Women's pajamas, house coats, blouses, etc. Serial No. 636,934, published May 5. Class 39.

Mangels, Arthur C., Industries, Philadelphia, Pa. Flat paints. Serial No. 601,329, published May 5. Class 16.

Manufacturers and Traders Trust Company, executor: *See*—
Nash, David D.

Manufactures de Senones (Vosges) Societe a Responsabilite Limitee, Paris, France. Textile fabrics. Serial No. 626,396, published May 5. Class 42.

Margo Laboratories: *See*—
Syce, Albert A.

Marlun Manufacturing Co., Inc., New York, N. Y. Combination electric roasters, broilers, and hot plates. Serial No. 628,160, published May 5. Class 21.

Mart Fashions, Inc., New York, N. Y. Women's and misses' dresses and suits. Serial No. 623,282, published May 5. Class 39.

McBee Company, The, Athens, Ohio. Key and gang punches, manually or power operated numbering, slotting, punching machines, trimmers, dies, etc. Serial No. 543,619, published May 5. Class 23.

McBee Company, The, Athens, Ohio. Machine for segregating notched cards. Serial No. 543,620, published May 5. Class 26.

McCall Corporation, New York, N. Y. Engraving, etching and preparing by related processes printing plates. Serial No. 615,840, published May 5. Class 106.

McGuinness, L. J., & Company, Limited, Mimico, Ontario, Canada. Alcoholic cordials and liqueurs. Serial No. 622,083, published May 5. Class 49.

McKesson & Robbins, Incorporated, New York, N. Y. Insect repellent. Serial No. 638,007, published May 5. Class 6.

Medical Iodine Laboratories, Inc., Avalon, Pittsburgh, Pa. Iodine for medicinal purposes. Serial No. 638,774, published May 5. Class 18.

Meredith Publishing Company, Des Moines, Iowa. Magazine feature. Serial No. 610,221, published May 5. Class 38.

Mid-America Research Corporation, Wheatland, Pa. Motorized four wheel vehicles. Serial No. 638,545, published May 5. Class 19.

Middlshade Company, Inc., The, Philadelphia, Pa. Apparel guide book, stock book, and swatch book of clothing fashions. Serial No. 622,549, published May 5. Class 38.

Midnight Attractions: *See*—
Jacobs, Max M.

Miller, Richard C., Landsdowne, Pa. Securing game. Serial No. 629,679, published May 5. Class 22.

Miller and Rhoads, Incorporated, Richmond, Va. Rubber sink mats; carpet pads, cushions, and underlays. Serial No. 623,119, published May 5. Class 50.

Mills, Mildred Teal, doing business under the name and style of The Mildred Teal Mills Greater Artist Series, Wenatchee, Wash. Providing entertainment services. Serial No. 632,094, published May 5. Class 107.

Mills, Mildred Teal, Greater Artist Series, The: *See*—
Mills, Mildred Teal.

Milo, John J., doing business under the name and style of Jersey Manufacturing Company, Elizabeth, N. J. Metal cutting tool and tool holder assembly. Serial No. 627,397, published May 5. Class 23.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Sound-recording tape. Serial No. 637,319, published May 5. Class 21.

Modern Woodmen of America, Rock Island, Ill. Underwriting of life insurance combined with polio insurance for its members. Serial No. 612,465, published May 5. Class 102.

Monsanto Chemical Company, St. Louis, Mo. Technical services rendered to industry in the testing of materials, etc. Serial No. 572,510, published May 5. Class 100.

Moore, Edgar D., Charlotte, N. C. Liquid and powder compound comprising powdered polymerized methyl methacrylate resin, etc. for permanent relining of dentures. Serial No. 620,048, published May 5. Class 44.

Morell Novelty Co. Inc., New York, N. Y. Knitting yarns. Serial No. 636,244, published May 5. Class 43.

Morrison, Willard L., Lake Forest, Ill. Food storage refrigerators. Serial No. 613,881, published May 5. Class 31.

Motolax Company, The: *See*—
Hartmann, Ernest A.

Motorola, Inc., Chicago, Ill. Electrical chassis for radio receivers. Serial No. 637,388, published May 5. Class 21.

Murphy, L. R., doing business as L. R. Murphy Co., Sacramento, Calif. Railroad track scales, motor truck scales, beam industrial scales, etc. Serial No. 637,203, published May 5. Class 26.

Murphy, L. R., Co.: *See*—
Murphy, L. R.

Myers, Malvina D., doing business under the style name of Sure Shot Laboratories, Mobile, Ala. Topical liquid preparation for treatment of dandruff. Serial No. 608,844, published May 5. Class 51.

N. V. Nederlands Amerikaanse Fittingfabriek, Zutphenseweg, Deventer, Netherlands. Metal pipe fittings, valves, metal pipe unions, etc. Serial No. 621,024, published May 5. Class 13.

Napper Company, Incorporated, Winnetka, Ill. Infants' play garment set. Serial No. 623,846, published May 5. Class 39.

Nash, David D., and J. A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of K. R. Wilson, deceased, doing business as K. R. Wilson, Arcade and Buffalo, N. Y. Battery chargers, electric piston heater units, etc. Serial No. 624,353, published May 5. Class 21.

Nash, David D., and J. A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of K. R. Wilson, deceased, doing business as K. R. Wilson, Arcade and Buffalo, N. Y. Battery chargers, electric piston heater units, etc. Serial No. 624,356, published May 5. Class 21.

National Automotive Parts Association, Detroit, Mich. Rubber splash guards and rubber automobile mats. Serial No. 634,418, published May 5. Class 19.

National Engineering Company, Chicago, Ill. Apparatus for reclaiming used sand. Serial No. 594,916, published May 5. Class 23.

National Filter Corporation, New York, N. Y. Filter apparatus and parts thereof. Serial No. 625,994, published May 5. Class 31.

National Tinsel Manufacturing Co., Manitowoc, Wis. Cotton, rayon, tinsel, and cellophane ribbon and cord. Serial No. 623,901, published May 5. Class 7.

Nelson, Edward E., Sunland, Calif. Live chinchillas and chinchilla pelts. Serial No. 630,852, published May 5. Class 1.

New York Rubber Corporation, New York, N. Y. Inflatable boats and inflatable floats. Serial No. 632,306, published May 5. Class 19.
Nielsen, John, S. Floral Park, N. Y. Waterproof coating material. Serial No. 621,978, published May 5. Class 16.
Nihou Mishin Seizo Kabushiki Kaisha, Mizuho-Ku Nagoya, Japan. Sewing machines. Serial No. 624,723, published May 5. Class 23.
Nissen, John P., Jr., Company, Glenside, Pa. Textile ink. Serial No. 637,204, published May 5. Class 11.
Nu-Know-U-Well Medicine Co.: *See*—
Rice, Edward E.
Olympic Glove Company, Inc., The, New York, N. Y. Protective clothing. Serial No. 624,146, published May 5. Class 39.
Ostrow, Nathan, doing business as David Woodcraft Co., New York, N. Y. Wall shelf units. Serial No. 630,511, published May 5. Class 32.
Ottawa Foods, Hamilton, Mich., assignor to Dog Life Corporation, Chicago, Ill. Kibbled dog food, dog biscuits and dog meal. Serial No. 645,282, published May 5. Class 46.
Otte, Otho M., doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Goods in the nature of individual articles and sets of articles of flatware. Serial Nos. 622,504–7, published May 5. Class 23.
Otte, Otho M., doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Goods in the nature of individual articles and sets of articles of flatware. Serial Nos. 622,509–10, May 5. Class 23.
Pacific Tire & Rubber Company, Oakland, Calif. Vehicle rubber tires and tubes and camel-back material. Serial No. 621,163, May 5. Class 35.
Panhandle Oil Corporation, assignee: *See*—
Panhandle Producing and Refining Company, The.
Panhandle Producing and Refining Company, assignor to Panhandle Oil Corporation, Wichita Falls, Tex. Gasoline. Serial No. 610,484, May 5. Class 15.
Paragon-Revolute Corporation, Rochester, N. Y. Machines for exposing and developing white prints, etc. Serial No. 637,668, May 5. Class 26.
Parke, Davis & Company, Detroit, Mich. Disposable absorbent underpad. Serial No. 634,109, May 5. Class 44.
Peavey Manufacturing Company, The, Oakland, Maine. Axes, bark spuds; axe and hatchet cases; etc. Serial No. 538,036, May 5. Class 23.
Penn Ventilator Company, Philadelphia, Pa. Powered roof ventilators. Serial No. 632,323, May 5. Class 34.
Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicaments. Serial No. 638,096, May 5. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Antibiotic preparation. Serial No. 591,192, May 5. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 637,943, May 5. Class 18.
Picturesort Company: *See*—
Smith, Clifford H.
Plastics Products Company, Inc., Dallas, Tex. Men's, women's, boys', and girls' raincoats. Serial No. 628,777. May 5. Class 39.
Poclask, Jeanne L., doing business under the name and style of Laverne, Chicago, Ill. Flexible plastic zippered bags. Serial No. 634,487, May 5. Class 2.
Polymer Corporation, The, Reading, Pa. Fine industrial molding powders. Serial No. 629,620, May 5. Class 1.
Premier Mill Corporation, Geneva, N. Y. Motor-driven high speed centrifugal mixing apparatus. Serial No. 621,421, May 5. Class 23.
Price Vacuum Stores, Inc., Philadelphia, Pa. Electric vacuum cleaners and vacuum cleaner parts. Serial No. 624,300, May 5. Class 21.
Pto. Rico Distilling Co.: *See*—
Puerto Rico Distilling Co.
Puerto Rico Distilling Company, sometimes trading as Pto. Rico Distilling Co., Arecibo, Puerto Rico. Skin lotion. Serial No. 614,313, May 5. Class 51.
Pulverizing Machinery Company, Summit, N. J. Air filter bags. Serial No. 630,791, May 5. Class 31.
Pure Oil Company, The, Chicago, Ill. Cold patch cement, tube patch cement, gasket and rim cement, etc. Serial No. 604,226, May 5. Class 5.
Purity Pretzel Company, Harrisburg, Pa. Pretzels and pretzel sticks. Serial No. 638,604, May 5. Class 46.
Rainbow Rembrandts Studios: *See*—
Jack, Isabelle B.
Rainey, Milton S., doing business as Rainey's Bait Ranch, Eatontan, Ga. Fish worms. Serial No. 631,310, May 5. Class 1.
Rainey's Bait Ranch: *See*—
Rainey, Milton S.
Ramsey, Robert, Daytona Beach, Fla. Compound for coating the interior of pipes. Serial No. 596,948, May 5. Class 16.
Raytheon Manufacturing Company, Newton, Mass. Apparatus for measuring distances. Serial No. 637,719, May 5. Class 26.
Reardon Company, The, St. Louis, Mo. Paint colors and tints. Serial No. 626,748, May 5. Class 16.
Regal Chemical Corporation, Brooklyn, N. Y. Room deodorizer and aerosol mixtures. Serial No. 620,825, May 5. Class 6.
Research Laboratories, Inc., St. Joseph, Mo. Hog cholera vaccine. Serial No. 633,073, May 5. Class 18.
Resyn Corporation of America, Linden, N. J. Alkyls. Serial No. 640,542, May 5. Class 6.
Rice, Edward E., doing business as Nu-Know-U-Well Medicine Co., Elmira, N. Y. Herb compound medicine and liniment. Serial No. 638,035, May 5. Class 18.
Richman Ice Cream Co., Sharptown and Woodstown, N. J. French ice cream. Serial No. 626,264, May 5. Class 46.
Rodriguez, Salvador, Inc., Tampa, Fla. Cigars. Serial No. 633,877, May 5. Class 17.
Rogers, Harry H., Co. Inc., Chicago, Ill. Cleaning solutions and solvents. Serial No. 631,802, May 5. Class 52.
Rolley: *See*—
Rolley, Inc.
Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Perfume, cologne, hand cream, etc. Serial No. 630,960, May 5. Class 51.
Rose, J., & Co. Inc., Brooklyn, N. Y. Cooking ranges. Serial No. 636,254, May 5. Class 34.
Royal Allegheny Metal Wares: *See*—
Otte, Otho M.
Rubber Corporation of America, Brooklyn, N. Y. Plasticizing compounds. Serial No. 638,316, May 5. Class 6.
Sargent & Company, New Haven, Conn. Pliers. Serial No. 633,682, May 5. Class 23.
Scanlan, Elizabeth S., doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo. Artificial fish lures. Serial No. 642,507, May 5. Class 22.
Scanlan, Gilbert F., doing business as Jerry Scanlan, Chicago, Ill. Toy guns, bean-blowers, target-dart games, etc. Serial No. 629,518, May 5. Class 22.
Scanlan, Jerry: *See*—
Scanlan, Gilbert F.
Scene Publishing Company, Inc., St. Louis, Mo. Semimonthly periodical. Serial No. 611,311, May 5. Class 38.
Selmix Dispenser Corporation, Long Island City, assignor to General Bronze Corporation, Garden City, N. Y. Refrigerated beverage dispensing apparatus and parts thereof. Serial No. 548,537, May 5. Class 31.
Sentro, Inc., West Palm Beach, Fla. Water emulsifiable concentrate of insecticidal, germicidal and fungicidal solution. Serial No. 612,975, May 5. Class 18.
Sharp & Dohme Incorporated, Philadelphia, Pa. Antibiotic preparation. Serial Nos. 638,608–9, May 5. Class 18.
Shiba, Leona B., Chicago, Ill. Marionettes. Serial No. 637,404, May 5. Class 22.
Shulan, Wally, doing business as Wally Shulan & Co., New York, N. Y. Household detergent. Serial No. 619,410, May 5. Class 52.
Shulan, Wally & Co.: *See*—
Shulan, Wally.
Silk Screen Supplies, Inc., Brooklyn, N. Y. Screen process materials—namely, silk screen process paints, weatherproof enamel, etc. Serial No. 577,616, May 5. Class 16.
Singer Manufacturing Company, The, Elizabeth, N. J. Hand sewing needles. Serial No. 628,561, May 5. Class 40.
Singer Manufacturing Company, The, Elizabeth, N. J. Belt hooks and cabinet and furniture hardware. Serial No. 628,566, May 5. Class 13.
Singer Manufacturing Company, The, Elizabeth, N. J. Toy sewing machines, dolls, dolls' clothes and toy traying cases. Serial No. 628,568, May 5. Class 22.
Singer Manufacturing Company, The, Elizabeth, N. J. Pressing machines: ironing boards, sleeve boards, etc. Serial No. 628,569, May 5. Class 24.
Singer Manufacturing Company, The, Elizabeth, N. J. Thermoelectric testing devices. Serial No. 628,571, May 5. Class 26.
Singer Manufacturing Company, The, Elizabeth, N. J. Family and commercial sewing machines, darning, embroidery, article fastening, hemstitching, etc. machines, etc. Serial No. 628,581, May 5. Class 23.
Singer Manufacturing Company, The, Elizabeth, N. J. Hand sewing needles: needle threaders: needle cases: etc. Serial No. 629,261, May 5. Class 40.
Singer Manufacturing Company, The, Elizabeth, N. J. Family and commercial sewing machines, darning, embroidery, article fastening, hemstitching, etc. machines, etc. Serial No. 630,223, May 5. Class 23.
Singer Manufacturing Company, The, Elizabeth, N. J. Marking chalk. Serial No. 630,806, May 5. Class 37.
Skelly Oil Company, Kansas City, Mo. Natural gasoline, motor gasoline, kerosene, etc. Serial No. 625,870, May 5. Class 15.
Smith, Clifford H., doing business as Picturesort Company, New Haven, Conn. Reproductions of printed and pictorial matter. Serial Nos. 622,464–5, May 5. Class 38.
Snyder, H. P., Manufacturing Company, Inc., Little Falls, N. Y. Bicycles. Serial No. 586,021, May 5. Class 19.
Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France. Wines. Serial No. 563,539, May 5. Class 47.
Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France. Wines. Serial No. 563,535, published May 5. Class 47.

Societe Civile Marep, Crosshans, Ollier (M. G. O.), Paris, France. Pressure fluid motors, internal combustion motors, jet motors, etc. Serial No. 637,552, May 5. Class 23.
Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Ready-mixed paint, varnish, enamel, etc. Serial Nos. 635,063–4, May 5. Class 16.
Sondheim, Herbert, Inc., New York, N. Y. Ladies' and misses' dresses and suits. Serial No. 564,909, May 5. Class 39.
Southern Friction Materials Company, Charlotte, N. C. Hydraulic brake cylinder repair kits and parts for hydraulic brake systems. Serial No. 589,278, May 5. Class 19.
Spray O Bond Company, Milwaukee, Wis. Transparent water-resistant masonry sealer coatings. Serial No. 615,661, May 5. Class 16.
Standard Electric Co., Inc., San Antonio, Tex. Separators or insulators for storage batteries. Serial No. 621,338, May 5. Class 21.
Standard Foundry Company, Racine, Wis. Metal castings. Serial No. 625,136, May 5. Class 14.
Standard Pressed Steel Co., Jenkintown, Pa. Workdesks, stools, work chairs, etc. Serial No. 635,939, May 5. Class 32.
Stanley Home Products, Inc., Westfield, Mass. Liquid detergent. Serial No. 630,455, May 5. Class 52.
Steinen, Wm., Mfg. Company, Newark, N. J. Telescoping inspection mirrors. Serial No. 637,669, May 5. Class 23.
Sterling Pulp & Paper Company, Eau Claire, Wis. Paper napkins, paper towels, toilet tissue, etc. Serial No. 637,958, May 5. Class 37.
Stevens Research Company, Dearborn, Mich. Variable speed transmissions. Serial No. 582,325, May 5. Class 23.
Storer Broadcasting Company: *See*—
Fort Industry Company, The.
Strauss, Levi, & Company, San Francisco, Calif. Overalls. Serial No. 578,119, May 5. Class 39.
Sure Shot Laboratories: *See*—
Myers, Malvina D.
Surface Engineering Company, Inc., Wichita, Kans. Clear or pigmented liquid plastic protective and decorative coating composition. Serial No. 632,635, May 5. Class 16.
Surtops Laboratory, Inc., Detroit, Mich. Rectal ointment. Serial No. 637,732, May 5. Class 18.
Sutton Electronic Company, Inc., Lexington, Ky. Television accessory units. Serial No. 637,155. May 5. Class 21.
Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. Serial Nos. 634,169–70. May 5. Class 17.
Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. Serial No. 634,172, May 5. Class 17.
Syce, Albert A., doing business as Margo Laboratories, Oakland, Calif. Preparations for cleaning and polishing furniture. Serial No. 627,361, May 5. Class 4.
Taconic Farms, Inc., Germantown, N. Y. Mice for laboratory use. Serial No. 633,278, May 5. Class 1.
Talon, Inc., Meadville, Pa. Fictional doll-like characters. Serial No. 622,180, May 5. Class 22.
Terre Co., The, Rochelle Park, N. J. Insecticide. Serial No. 631,697, May 5. Class 6.
Terre Co., The, Rochelle Park, N. J. Crabgrass and weed killer. Serial No. 631,698, May 5. Class 6.
Tested Papers of America, Inc., Chicago, Ill. Gummed tape. Serial No. 616,520, May 5. Class 5.
Tested Papers of America, Inc., Chicago, Ill. Gummed tape. Serial No. 616,523, May 5. Class 5.
Titus Bros. & Sons Music Company-Publisher, Philadelphia, Pa. Printed music and printed sheets containing music notes. Serial No. 608,903, May 5. Class 38.
Toyerafters, Philadelphia, Pa. Dolls. Serial No. 584,093, May 5. Class 22.
Transmission & Gear Co., The, Dearborn, Mich. Power shovels. Serial No. 635,982, May 5. Class 23.
Trostel, Albert, & Sons Company, Milwaukee, Wis. Leather. Serial No. 629,411, May 5. Class 1.
Union Oil Company of California, Los Angeles, Calif. Dry cleaning of fabrics. Serial No. 622,872, May 5. Class 103.
United Aircraft Products, Inc., Dayton, Ohio. Flow control valves. Serial No. 630,172, May 5. Class 13.
United Equipment Co., Chicago, Ill. Tool stands and work benches. Serial No. 630,740, May 5. Class 23.
United Sash & Door Company, Wichita, Kans. Linseed oil and turpentine, painters' thinner and solvent, naphtha, etc. Serial No. 595,629, May 5. Class 16.
United States Rubber Company, New York, N. Y. Woven corrugated textile fabrics. Serial No. 631,134, May 5. Class 42.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Pump barrels. Serial No. 627,473, May 5. Class 23.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Metal pipes and tubes. Serial No. 631,137, May 5. Class 13.
United States Steel Corporation: *See*—
United States Steel Company.
Upjohn Company, The, Kalamazoo, Mich. Preparation for use in the treatment of a metabolic disorder. Serial No. 637,804, May 5. Class 18.
Upjohn Company, The, Kalamazoo, Mich. Preparation for use in connection with the diet of patients. Serial No. 637,805, May 5. Class 18.
Veeder-Root Incorporated, Hartford, Conn. Counters and registers. Serial No. 619,858, May 5. Class 26.
Vogel Luminescence Corporation, San Francisco, Calif. Egg candler. Serial No. 637,628, May 5. Class 26.
Watertown Manufacturing Company, The, Watertown, Conn. Dishes, bowls, tumblers, etc. Serial No. 638,927, May 5. Class 2.
Watkins, J. R., Company, The, Winona, Minn. Medicated greaseless skin ointment. Serial No. 638,279, May 5. Class 18.
Webber Gage Company, Cleveland, Ohio. Gage blocks. Serial No. 632,809, May 5. Class 26.
Weiss Lawrence, Inc., Somerswortb, N. H. Shoes. Serial No. 632,402, May 5. Class 39.
Wesco Waterpaints, Inc., Berkeley, Calif. Waterpaints. Serial No. 593,509, May 5. Class 16.
Western Coating Company, Pasadena, Calif. Thermoplastic, rubber-like protective coating composition. Serial No. 617,425, May 5. Class 16.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Wax candles. Serial No. 620,708, May 5. Class 15.
Wilson, Joseph H., Sr., trustee, Murphy, N. C. Hosiery. Serial No. 634,511, May 5. Class 39.
Wilson, K. R.: *See*—
Nash, David D.
Wilson, Kirke R.: *See*—
Nash, David D.
Winebrenner, D. E., Company, Inc., Hanover, Pa. Canned vegetables, and canned vegetable juices. Serial No. 615,427, May 5. Class 46.
Wisconsin Alumni Research Foundation Madison, Wis. Rat and mouse poison. Serial No. 617,465, May 5. Class 6.
Wishengrad, Hyman, doing business under the firm name and style of Editors Syndicate, New York, N. Y. Comic strip. Serial No. 638,621, May 5. Class 38.
Wrightwear Limited, Sutton-in-Ashfield, England. Brassières, bodices, garments comprising camisoles and knickers, etc. Serial No. 620,182, May 5. Class 39.
Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Liquid food formula. Serial No. 621,297, May 5. Class 46.
Zummach, Wm. F., Inc., Milwaukee, Wis. Oil base flat wall paint. Serial No. 630,501, May 5. Class 16.

LIST OF REGISTRANTS OF TRADE-MARKS

AB Wasa Spisbrödsfabrik: *See*—
Aktiebolaget Skanska Spisbrodsfabriken.
Aatell & Jones, Inc., Philadelphia, Pa. Paper table appointments. 574,029, May 5; Serial No. 627,856, published Dec. 30, 1952. Class 37.
Abbott Laboratories, North Chicago, Ill. Anti-heparin compound. 574,098, May 5; Serial No. 637,977, published Jan. 27, 1953. Class 18.
Acme Brief Case Co., Inc., New York, N. Y. Brief cases and brief bags. 574,072, May 5; Serial No. 632,863, published Feb. 10, 1953. Class 3.
Acorn Chemical Company, The, Toledo, Ohio. Chemicals. 574,090, May 5; Serial No. 638,034, published Feb. 10, 1953. Class 6.
Aero Feeder Company: *See*—
Blazek, Rosemary V.
Aetna Casualty and Surety Company, The, Hartford, Conn. Apparatus to train a student driver in the use of the controls of an automobile, etc. 574,134, May 5; Serial No. 625,948. Class 26.
Aetna Leather Novelty Co., Inc., Union City, N. J. Handbags. 574,061, May 5; Serial No. 631,710, published Feb. 10, 1953. Class 3.
Aktiebolaget Skanska Spisbrodsfabriken, Kristianstad, to AB Wasa Spisbrödsfabrik, Filipstad, Sweden. Hard bread. 301,333, renewed Feb. 28, 1953. O. G. May 5, Class 46.
Algin Corporation of America, New York, N. Y. Refined Irish moss extract. 573,996, May 5; Serial No. 623,325, published Feb. 17, 1953. Class 6.
Algin Corporation of America, New York, N. Y. Refined sodium carrageenate. 573,997, May 5; Serial No. 623,328, published Feb. 17, 1953. Class 6.
Allied Laboratories, Inc., Kansas City, Mo. Antiseptic and bacteriostatic preparation. 573,982, May 5; Serial No. 619,794, published Jan. 20, 1953. Class 18.
Alta Vis Oil Company, Portland, Oreg., to Standard Oil Company of California, San Francisco, Calif. Lubricating oils. 300,668, renewed Jan. 31, 1953. O. G. May 5. Class 15.

Aluminum Cooking Utensil Company, The, New Kensington, Pa. Metal combination storing and cooking containers. 574,008, May 5; Serial No. 625,180, published Feb. 10, 1953. Class 13.

Amercoat Corporation, South Gate, Calif. Acidproof material, used for lining or coating steel or concrete pipes, structures, tanks, etc. 573,929–31, May 5; Serial Nos. 593,456–8, published Feb. 10, 1953. Class 12.

American Brake Shoe Company, New York, N. Y. Rail anchoring stud. 574,066, May 5; Serial No. 632,282, published Feb. 17, 1953. Class 14.

American Felt Company, Glenville, Conn. Semi-felted fabric. 573,940, May 5; Serial No. 602,737, published Feb. 10, 1953. Class 50.

American Hospital Supply Corporation, Evanston, Ill. Detergent. 574,067, May 5; Serial No. 632,283, published Feb. 10, 1953. Class 52.

American International Publications, Inc., New York, N. Y. Weekly trade publication. 574,138, May 5; Serial No. 627,480. Class 38.

American Machine and Metals, Inc.: *See*—
United States Gauge Company.

American-Marietta Company, Chicago, Ill. Ready mixed paints and enamels. 574,142, May 5; Serial No. 631,526. Class 16.

American Publications, Inc., Chicago, Ill. Magazine. 574,106, May 5; Serial No. 579,161. Class 38.

Ames, O., Co.: *See*—
Ames Shovel & Tool Company.

Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass., to O. Ames Co., Parkersburg, W. Va. Shovels, spades, and scoops. 92,617, re-renewed July 22, 1953. O. G. May 5. Class 23.

Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad, British West Indies, to Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad. Tonic bitters. 90,152, renewed Feb. 11, 1953. O. G. May 5. Class 18.

Animal Foods Company, doing business as Bar-None Sales Company, San Jose, Calif., to N. C. Coan, San Jose, Calif., and Houston, Tex. Canned food. 303,304, renewed May 23, 1953. O. G. May 5. Class 46.

Antco Gardens, Inc., Lyons, N. Y. Plant food. 574,041, May 5; Serial No. 629,709, published Feb. 10, 1953. Class 10.

Arden, Elizabeth, Inc., to Elizabeth Arden Sales Corporation, New York, N. Y. Perfumes and perfumery. 302,456, renewed Apr. 18, 1953. O. G. May 5. Class 51.

Arden, Elizabeth, Inc., to Elizabeth Arden Sales Corporation, New York, N. Y. Perfumes and perfumery, cleansing cream, face and hand lotion, etc. 302,900, renewed May 2, 1953. O. G. May 5. Class 51.

Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.

Atlas Powder Company, Wilmington, Del. Quaternary ammonium compounds. 574,091, May 5; Serial No. 635,807, published Feb. 10, 1953. Class 6.

Austin, Guy D., Miami, Fla. Insecticides. 574,075, May 5; Serial No. 633,191, published Feb. 10, 1953. Class 6.

Automatic Pump & Softener Corporation, Rockford, Ill. Valves. 573,980, May 5; Serial No. 619,596, published Feb. 10, 1953. Class 13.

Aylward, Charles L., Jr., doing business as The Aylward Products Company, Kansas City, Mo. Asphaltic plastic roof cement, caulking compound, sewer joint primer, etc. 574,005, May 5; Serial No. 624,725, published Feb. 10, 1953. Class 12.

Aylward Products Company, The: *See*—
Aylward, Charles L., Jr.

Baltch & Castaldi, Inc., New York, N. Y. Ladies', misses' and juniors' coats and suits. 573,966, May 5; Serial No. 616,383, published Jan. 20, 1953. Class 39.

Bar-None Sales Company: *See*—
Animal Foods Company.

Basca Manufacturing Company, Inc., Indianapolis, Ind. Sheet metal tumblers and bowls. 574,055, May 5; Serial No. 631,040, published Jan. 20, 1953. Class 13.

Behr-Manning Corporation, Troy and Watervliet, to Behr-Manning Corporation, Troy, N. Y. Flexible abrasive paper and cloth. 302,591, renewed Apr. 25, 1953. O. G. May 5. Class 4.

Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. 574,078, May 5; Serial No. 633,294, published Feb. 17, 1953. Class 4.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. 573,938, May 5; Serial No. 602,486, published Feb. 10, 1953. Class 2.

Bendix Aviation Corporation, Detroit, Mich. Vehicle brakes and parts thereof and operating connections therefor, vehicle braking systems, etc. 574,023, May 5; Serial No. 627,422, published Feb. 17, 1953. Class 19.

Berger Scientific Supplies, Inc., New York, N. Y. Materials and equipment for engineers, architects, surveyors, and draftsmen. 574,132, May 5; Serial No. 625,230. Class 26.

Berkshire Fine Spinning Associates, Inc., Adams, Mass., and Providence, R. I. Window curtains. 574,038, May 5; Serial No. 629,085, published Feb. 10, 1953. Class 42.

Best & Co., Inc., New York, N. Y. Apparel for women and children. 304,508, renewed July 11, 1953. O. G. May 5. Class 39.

Blair of Virginia: *See*—
Morton Manufacturing Corp.

Blazek, Rosemary V., doing business as Aero Feeder Company, Minneapolis, Minn. Sub-soil feeding tube. 574,043, May 5; Serial No. 629,883, published Feb. 3, 1953. Class 13.

Bloomberg, E. M., & Co., Inc., Chicago, Ill. Woolen piece goods. 574,057, May 5; Serial No. 631,338, published Feb. 10, 1953. Class 42.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Textile floor rugs. 574,047, May 5; Serial No. 630,293, published Feb. 10, 1953. Class 42.

Bolta Company, The, Lawrence, Mass. Boxes. 573,993, May 5; Serial No. 622,737, published Feb. 10, 1953. Class 2.

Bolta Company, The, Lawrence, Mass. Utility bowls. 573,994, May 5; Serial No. 622,738, published Feb. 10, 1953. Class 2.

Borax Consolidated, Limited, doing business as Pacific Coast Borax Co., Division of Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Boric acid spangles. 574,007, May 5; Serial No. 625,094, published Feb. 17, 1953. Class 4.

Borden Company, The: *See*—
Borden's Condensed Milk Co.

Borden's Condensed Milk Co., to The Borden Company, New York, N. Y. Milk, malted milk, and food-product milk. 40,692, re-renewed June 30, 1953. O. G. May 5. Class 46.

Borsalino Giuseppe e Fratello S. p. A., Alessandria, Italy. Hats and articles in the nature of hats. 574,105, May 5; Serial No. 574,816. Class 39.

British Sanek Limited, London, England. Woolen piece goods. 574,092, May 5; Serial No. 635,900, published Feb. 10, 1953. Class 42.

Brumberger Co. Inc., Brooklyn, N. Y. Stereoscopic viewers and accessories. 574,119, May 5; Serial No. 617,906. Class 26.

Buffa, Antonino, doing business under the name of Castelcarini Packing Company, Brooklyn, N. Y. Olive oils. 574,141, May 5; Serial No. 630,056. Class 46.

Bulova Watch Company, Inc., New York, N. Y. Bracelet watches and their attached bracelets. 302,038, renewed Mar. 21, 1953. O. G. May 5. Class 27.

California Packing Corporation, San Francisco, to Sunkist Growers, Inc., Los Angeles, Calif. Canned fruit, dried fruit, raisins, etc. 304,659, renewed July 11, 1953. O. G. May 5. Class 46.

California Prune and Apricot Growers Association, San Jose, Calif. Dried fruit. 303,177, renewed May 16, 1953. O. G. May 5. Class 46.

California Sportwear Company, Los Angeles, Calif. Woolen piece goods. 574,144, May 5; Serial No. 633,033. Class 42.

California Test Bureau, Los Angeles, Calif. Printed personality and achievement tests including reading tests. 574,112, May 5; Serial No. 599,691. Class 38.

Cannon Mills Company: *See*—
Cannon Mills, Inc.

Cannon Mills, Inc., New York, N. Y., by Cannon Mills Company, Kannapolis, N. C. Textile sheets, sheetings, and pillow cases. 302,786, Apr. 25, 1933. Republished May 5. Class 42.

Canoga Citrus Association, Canoga Park, Calif. Fresh citrus fruit. 304,818, renewed July 18, 1953. O. G. May 5. Class 46.

Canton Culvert Company, The, Canton, by Republic Steel Corporation, Cleveland, Ohio. Nestable corrugated culverts. 88,240, Sept. 10, 1912. Republished May 5. Class 13.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Plumbing and steam fitting supplies. 573,921, May 5; Serial No. 556,411, published May 29, 1951. Class 12.

Carlton Mills Company, Philadelphia, Pa. Textile fabrics. 574,001, May 5; Serial No. 624,330, published Feb. 10, 1953. Class 42.

Castelcarini Packing Company: *See*—
Buffa, Antonino.

Cel-U-Dex Corporation, Brooklyn, N. Y. Index sheets with tabs. 574,024, May 5; Serial No. 627,487, published Dec. 30, 1952. Class 37.

Cel-U-Dex Corporation, Brooklyn, N. Y. Post binder indexes. 574,025, May 5; Serial No. 627,488, published Dec. 30, 1952. Class 37.

Cel-U-Dex Corporation, Brooklyn, N. Y. Insertable index tab sets and also acetate covers with insertable index tab sets. 574,026, May 5; Serial No. 627,491, published Dec. 30, 1952. Class 37.

Centra Leather Goods Corporation, New York, N. Y. Wallets, billfolds, pocketbooks, etc. 573,955, May 5; Serial No. 612,586, published Feb. 10, 1953. Class 3.

Childhood Interests, Inc., Roselle Park, N. J. Exercisers. 403,047, Aug. 31, 1943. Republished May 5. Class 22.

Childhood Interests, Inc., Roselle Park, N. J. Exercisers. 426,732, Jan. 7, 1947. Republished May 5. Class 22.

Claudon Richard & Cie: *See*—
Manufacture Dijonnaise Des Biscuits Pernot, Societe Anonyme.

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Brush cleaner. 304,447, renewed July 11, 1953. O. G. May 5. Class 52.

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Compound for cleaning wall paper, frescos, calcimine, etc. 304,450, renewed July 11, 1953. O. G. May 5. Class 52.

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Painters' wall size. 304,453, renewed July 11, 1953. O. G. May 5. Class 16.

Clinton Foods, Inc., Clinton, Iowa. Preservative for silage for livestock. 574,048, May 5; Serial No. 630,389, published Feb. 10, 1953. Class 46.

Coan, N. C.: *See*—
Animal Foods Company.

Colfax Mineral Springs Company, Inc., Colfax, Iowa. Maltless soft drinks and carbonated waters. 574,133, May 5; Serial No. 625,716. Class 45.

Columbia Phonograph Company, Inc., to Columbia Records Inc., Bridgeport, Conn. Radio receiving, detecting, and transmitting sets and parts thereof. 299,904, renewed July 19, 1952. O. G. May 5. Class 21.

Columbia Records Inc.: *See*—
Columbia Phonograph Company, Inc.

Commercial Solvents Corporation, New York, N. Y. Vaginal suppositories. 574,100, May 5; Serial No. 638,065, published Jan. 27, 1953. Class 18.

Conston, Harry, Camden, N. J., to Harry Conston, Philadelphia, Pa. Ladies' hosiery. 299,047, renewed Nov. 22, 1932. O. G. May 5. Class 39.

Consumers Oil Company, New York, N. Y. Lubricating oils. 573,939, May 5; Serial No. 602,603, published Oct. 16, 1951. Class 15.

Continental Can Company, Inc., New York, N. Y. Paper cartons. 574,128, May 5; Serial No. 623,402. Class 2.

Continental Mills, Inc., Philadelphia, Pa. Knitted and woven fabrics. 574,050, May 5; Serial No. 630,653, published Feb. 10, 1953. Class 42.

Continental Mills, Inc., Philadelphia, Pa. Knitted and woven fabrics. 574,051, May 5; Serial No. 630,655, published Feb. 10, 1953. Class 42.

Coty, Inc., Wilmington, Del., and New York, N. Y., to Coty, Inc., New York, N. Y. Perfumes and face powder. 301,605, renewed Mar. 7, 1953. O. G. May 5. Class 51.

Craddock-Terry Shoe Corporation, Lynchburg, Va. Men's and boys' shoes. 573,952, May 5; Serial No. 611,769, published Jan. 20, 1953. Class 39.

Crompton Company, Crompton, R. I. Fabrics in the piece. 574,086, May 5; Serial No. 635,122, published Feb. 10, 1953. Class 42.

Dealers Digest Publishing Company, Inc., The, New York, N. Y. Periodical. 574,109, May 5; Serial No. 595,250. Class 38.

Delaware Industrial Chemical Corporation, Beverly, N. J. Domestic dishes. 573,922, May 5; Serial No. 563,605, published June 17, 1952. Class 2.

Dieterich Products Corporation, Michigan City, Ind. Automobile visors. 573,971, May 5; Serial No. 617,392, published Sept. 16, 1952. Class 19.

Drambuie Liqueur Co. Ltd., The: *See*—
Drambuie Liqueur Coy (1927) Limited, The.

Drambuie Liqueur Coy (1927) Limited, The, to The Drambuie Liqueur Co. Ltd., Edinburgh, Scotland. Distilled alcoholic liqueur. 303,089, renewed May 9, 1953. O. G. May 5. Class 40.

Dreer, Henry A., Inc., Philadelphia, Pa. Soil conditioner. 574,039, May 5; Serial No. 629,236, published Feb. 17, 1953. Class 10.

Dumari Textile Co., Inc., New York, N. Y. Women's and misses' party frocks, dressing gowns, wrappers, etc. 303,524, renewed May 30, 1953. O. G. May 5. Class 39.

Dunle, Robert, doing business as Northern Greenhouses, Chicago, Ill. Plastic holder. 574,010, May 5; Serial No. 625,467, published Feb. 10, 1953. Class 2.

Durex Abrasives Corporation, New Rochelle, N. Y. Natural and artificial abrasives. 573,992, May 5; Serial No. 622,206, published Feb. 17, 1953. Class 4.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Chemicals. 574,097, May 5; Serial No. 637,118, published Feb. 10, 1953. Class 6.

Eaton, O. O., Inc.: *See*—
Eaton, Orrin O.

Eaton, Orrin O., to O. O. Eaton, Inc., Watsonville, Calif. Fresh lettuce. 300,683, renewed Jan. 31, 1953. O. G. May 5. Class 46.

Etablissements Veuve Louis Tant, Roulers, Belgium. Women's dresses, aprons, blouses, etc. 573,948, May 5; Serial No. 608,753, published Jan. 20, 1953. Class 39.

Evans Case Co., North Attleboro, Mass. Handbags and fitted handbags. 573,946, May 5; Serial No. 607,946, published Feb. 10, 1953. Class 3.

Farmers Educational and Cooperative Union of America, Denver, Colo. Fertilizer. 573,963, May 5; Serial No. 615,977, published Jan. 20, 1953. Class 10.

Fitzgerald-Nelson Company, Duluth, Minn. Printed advertising posters and signs and identification labels. 574,136, May 5; Serial No. 626,373. Class 38.

Fletcher, H. E., Co., West Chelmsford, Mass. Potassium-bearing soil amender. 573,947, May 5; Serial No. 607,947, published Feb. 10, 1953. Class 10.

Flex-O-Glass, Inc., Chicago, Ill. Flexible, translucent, and transparent sheet materials, etc. 573,961, May 5; Serial No. 615,378, published Jan. 27, 1953. Class 50.

Florin, Philip, Inc., New York, N. Y. Wallets. 573,957, May 5; Serial No. 613,984, published Feb. 10, 1953. Class 3.

Florsheim Shoe Company, The, Chicago, Ill. Footwear. 573,945, May 5; Serial No. 607,804, published Jan. 20, 1953. Class 39.

Frenchtown Porcelain Company, Frenchtown, N. J. Porcelain nozzles. 573,985, May 5; Serial No. 620,779, published Jan. 27, 1953. Class 13.

Friedrich, John, Philadelphia, Pa. Ginger ale, sarsaparilla, and root beer. 179,115, Feb. 5, 1924. Amended. O. G. May 5. Class 45.

Fry, J. S., & Sons Limited: *See*—
Fry, J. S., and Sons, Limited.

Fry, J. S., and Sons, Limited, to J. S. Fry & Sons Limited, Bristol, England. Chocolate and cocoa. 90,982, renewed Apr. 8, 1953. O. G. May 5. Class 46.

Galen Laboratories, Pittsburgh, Pa. Soaps and shampoos. 574,015, May 5; Serial No. 626,239, published Feb. 17, 1953. Class 52.

Gasoline Equipment Manufacturing Company, Inc., Indianapolis, Ind. Underground and aboveground tanks. 574,000, May 5; Serial No. 623,540, published Feb. 10, 1953. Class 2.

Gaylord Products, Incorporated: *See*—
Hump Hair Pin Company.

Gelgy Company, Inc., New York, N. Y. Dyes and dyestuffs. 574,088, May 5; Serial No. 635,694, published Feb. 10, 1953. Class 6.

Gelgy Company, Inc., New York, N. Y. Chemicals. 574,089, May 5; Serial No. 635,695, published Feb. 10, 1953. Class 6.

General Mills, Inc., Minneapolis, Minn. Stock food. 302,705, renewed Apr. 25, 1953. O. G. May 5. Class 46.

Gerber Products Company, Fremont, Mich. Cardboard boxes. 573,935, May 5; Serial No. 601,495, published Feb. 10, 1953. Class 2.

Germanow-Simon Machine Co., to Germanow-Simon Machine Co., Inc., Rochester, N. Y. Watch crystals. 300,879, renewed Feb. 14, 1953. O. G. May 5. Class 33.

Germanow-Simon Machine Co., Inc.: *See*—
Germanow-Simon Machine Co.

Geuting, A. H., Company, to The Geuting Company, Philadelphia, Pa. Men's, women's, and children's boots and shoes. 302,759, renewed Apr. 25, 1953. O. G. May 5. Class 39.

Geuting Company, The: *See*—
Geuting, A. H., Company.

Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Creme hair rinse. 574,036, May 5; Serial No. 628,688, published Feb. 10, 1953. Class 51.

Givaudan-Delawanna, Inc., New York, N. Y. Organic odoriferous and flavor-imparting chemicals, organic chemicals. 573,925, May 5; Serial No. 570,486, published Feb. 10, 1953. Class 6.

Goldberg, S., & Co., Inc., Hackensack, N. J. Slippers. 207,851, Jan. 12, 1926. Republished May 5. Class 39.

Gold-Craft Mfg. Co., New York, N. Y. Ladies' and misses' pajamas. 574,139, May 5; Serial No. 628,531. Class 39.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Footwear. 573,953, May 5; Serial No. 612,069, published Jan. 20, 1953. Class 39.

Gorham Manufacturing Company, Providence, R. I. Hollowware and tableware. 573,995, May 5; Serial No. 622,892, published Feb. 10, 1953. Class 28.

Grand American Furniture Corp., Chicago, Ill. Occasional tables, lamp tables, and cocktail tables. 574,115, May 5; Serial No. 606,549. Class 32.

Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. 574,071, May 5; Serial No. 632,835, published Feb. 10, 1953. Class 42.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Children's painting kits. 574,137, May 5; Serial No. 626,672. Class 22.

Guarantee Metal Products, Inc., Los Angeles, Calif. Steel dispensers. 573,924, May 5; Serial No. 567,863, published Feb. 10, 1953. Class 2.

Gulf States Steel Company, Birmingham, Ala., by Republic Steel Corporation, Cleveland, Ohio. Nails. 296,595, Aug. 16, 1932. Republished May 5. Class 13.

Gütermann & Co., K. G., Zurich, Switzerland. Sewing thread. 574,143, May 5; Serial No. 632,476. Class 43.

H. & M. Neckwear Co.: *See*—
Mayer, William.

Haas Miller Corporation, Philadelphia, Pa. Wetting agent and acid accelerator. 574,012, May 5; Serial No. 625,594, published Feb. 10, 1953. Class 6.

Hadley Company, Inc., The, Providence, R. I. Bracelets. 300,604, renewed Jan. 31, 1953. O. G. May 5. Class 28.

Hallmark Ring Corporation, Chicago, Ill. Jewelry. 573,958, May 5; Serial No. 614,250, published Feb. 3, 1953. Class 28.

Heinze, Fred, Rutherford, N. J. Rollable cases. 574,009, May 5; Serial No. 625,421, published Feb. 10, 1953. Class 2.

Hewlett, C. J., & Son Limited, London, England. Remedies for diseases of the bladder and stomach. 90,330, re-renewed Feb. 18, 1953. O. G. May 5. Class 18.

Hollingshead, R. M., Co., The, to R. M. Hollingshead Corporation, Camden, N. J. Carbon decomposer, antifreeze compounds, chemicals, and chemical preparations. 301,643, renewed July 11, 1953. O. G. May 5. Class 6.

Hollingshead, R. M., Corporation: *See*—
Hollingshead, R. M., Co., The.

Hollymade Hardware Mfg. Co., Los Angeles, Calif. Builders hardware — namely, locks, latches, etc. 574,006, May 5; Serial No. 625,069, published Sept. 30, 1952. Class 26.

Hoodenpyl, M. P., doing business as Remedol Laboratories, Nashville, Tenn. Medicinal preparation. 573,987, May 5; Serial No. 621,316, published Jan. 20, 1953. Class 18.

House Beautiful Curtains, Inc., New York, N. Y. Draperies and window curtains and curtain fabrics. 574,082 May 5; Serial No. 633,771, published Feb. 10, 1953. Class 42.

Hump Hair Pin Company, Augusta, Maine, and Chicago, Ill., to Gaylord Products, Incorporated, Chicago, Ill. Hair-pins. 91,875, re-renewed June 3, 1953. O. G. May 5. Class 40.

Hyer, C. H., & Sons, Olathe, Kans. Boots and shoes. 574,031, May 5; Serial No. 627,943, published Jan. 20, 1953. Class 39.

Industrial Research Laboratories, Houston, Tex. Rubber preservative and rust inhibitor. 573,944, May 5; Serial No. 607,027, published Feb. 17, 1953. Class 6.

Intermedico Corporation, New York, N. Y. Pharmaceuticals. 574,056, May 5; Serial No. 631,200, published Feb. 10, 1953. Class 18.

International Nickel Company, Inc., The, New York, N. Y. Nickel-containing iron castings. 302,033, renewed Mar. 21, 1953. O. G. May 5. Class 14.

International Shoe Company, St. Louis, Mo. Boots and shoes. 303,771, renewed June 6, 1953. O. G. May 5. Class 39.

Jacmar Mfg. Company: *See*—
Jacobs, Irving.

Jacobs, Edward, Baltimore, Md. Ladies' and men's clothing. 573,986, May 5; Serial No. 620,966, published Jan. 20, 1953. Class 39.

Jacobs, Irving, doing business under the trade name and style of Jacmar Mfg. Company, New York, N. Y. Educational game. 573,976, May 5; Serial No. 619,244, published Feb. 10, 1953. Class 22.

Jenkins, George O., Company, Bridgewater, Mass. Sheet fibreboard and leatherboard. 574,063, May 5; Serial No. 631,934, published Feb. 10, 1953. Class 59.

Johnson & Johnson, New Brunswick, N. J. Synthetic resins and catalysts. 574,084, May 5; Serial No. 633,984, published Feb. 10, 1953. Class 6.

Jones, Howard B., Chicago, Ill., to Northern Signal Company, Inc., Saukville, Wis. Toy drawing outfits. 304,248, renewed June 27, 1953. O. G. May 5. Class 22.

Jones, John W., Caledonia, N. Y. Chemical preparation. 290,856, Aug. 23, 1932. Republished May 5. Classes 6, 18, and 52.

Joyner Corporation, The, Bourbon, Ind. Liquid cleaner. 573,972, May 5; Serial No. 617,445, published Feb. 10, 1953. Class 52.

Joyner Corporation, The, Warsaw, Ind. Preparation for repelling insects. 574,087, May 5; Serial No. 635,598, published Feb. 10, 1953. Class 6.

Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. 574,198, May 5; Serial No. 590,372. Class 32.

Kirby, Block & Fischer, Inc., New York, N. Y. Men's and women's suits, neckties, and mufflers, etc. 278,623, Dec. 23, 1930. Republished May 5. Class 39.

Kirby, Block & Fischer, Inc., New York, N. Y. Men's, women's, and children's clothing. 286,849, Sept. 8, 1931. Republished May 5. Class 39.

Klik Promotions, Inc., New York, N. Y. Pill boxes, empty perfume vials for handbags, and empty combination perfume and lipstick containers. 574,111, May 5; Serial No. 598,373. Class 2.

Knapp-Monarch Company, Belleville, Ill., to Knapp-Monarch Company, St. Louis, Mo. Electric fans. 304,529, renewed July 11, 1953. O. G. May 5. Class 21.

Koppers Company, Inc., Pittsburgh, Pa. Economic and market research or surveys. 574,102, May 5; Serial No. 623,715, published Feb. 10, 1953. Class 101.

Kreiss, Jack: *See*—
National Department Stores Inc.

Kreiss, Jack, Co.: *See*—
National Department Stores Inc.

Laird & Co., Inc., Eatontown, to Laird & Co., Inc., Scobeyville, N. J. Cider. 304,700, renewed July 18, 1953. O. G. May 5. Class 45.

Laird & Company, Incorporated, Eatontown, to Laird & Company, Incorporated, Scobeyville, N. J. Cider. 301,623, renewed Mar. 7, 1953. O. G. May 5. Class 45.

Larkin, P. C., Toronto, Ontario, Canada, and New York, N. Y., to Salada Tea Company, Inc., Boston, Mass. Cocoa. 92,805, re-renewed July 29, 1953. O. G. May 5. Class 46.

Law, Hartland, and H. E. Law, by The Viavi Company, San Francisco, Calif. Tonic. 66,749, Dec. 24, 1907. Republished May 5. Class 18.

Law, Herbert E.: *See*—
Law, Hartland, and H. E. Law.

Les Parfums de Dana, Inc.: *See*—
Pando, Jacinto M.

Level-Line Ceilings Inc., New York, N. Y. Metal clips. 573,989, May 5; Serial No. 621,369, published Jan. 20, 1953. Class 13.

Lever Brothers Company: *See*—
Pepsodent Co., The.

Lever Brothers Company, New York, N. Y. Eau de cologne. 574,034, May 5; Serial No. 628,409, published Feb. 10, 1953. Class 51.

Liberty Optical Manufacturing Co., Inc., Newark, N. J. Ophthalmic mountings. 574,122, May 5; Serial No. 620,919. Class 26.

Lloyd, E. E., Paper Company, Chicago, Ill. Papers. 573,988, May 5; Serial No. 621,322, published Dec. 30, 1952. Class 37.

Longini Shoe Manufacturing Co., The, Cincinnati, Ohio. Women's shoes. 573,920, May 5; Serial No. 529,901, published Dec. 18, 1951. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Women's dresses, suits and coats. 302,210, renewed Apr. 4, 1953. O. G. May 5. Class 39.

Magic Iron Cement Company: *See*—
Reich, Herman J.

Magnin, I., & Co.: *See*—
Moss Stores, Inc.

Magnin, I., & Co., San Francisco, Calif. Women's, misses', children's, and infants' gowns, dresses, skirts, etc. 281,270, Mar. 17, 1931. Republished May 5. Class 39.

Malls Co., The, assignor to Tole Craft Products, Inc., Baltimore, Md. Kits containing artist's oil colors, artist's brush, etc. 574,046, May 5; Serial No. 630,276, published Feb. 10, 1953. Class 50.

Manfield and Sons, Limited, Northampton, England. Boots and shoes. 573,991, May 5; Serial No. 622,079, published Dec. 30, 1952. Class 39.

Manufacture Dijonnaise Des Biscuits Pernot, Societe Anonyme, to Claudon Richard & Cie, Dijon, France. Cakes, biscuits, crackers, etc. 298,902, renewed Nov. 15, 1952. O. G. May 5. Class 46.

Margolis, Bernard A., doing business as Margolis Enterprises, Kansas City, Mo. Combination tongue depressor and measuring spoon. 574,121, May 5; Serial No. 619,705. Class 20.

Margolis Enterprises: *See*—
Margolis, Bernard A.

Marhill Co. Inc., The, New York, N. Y. Mother-of-pearl gift products and accessories—namely, pill boxes, lipstick cases, etc. 573,969, May 5; Serial No. 616,746, published Feb. 10, 1953. Class 2.

Markrite Stamp Co., Inc.: *See*—
Markwell Stamp Co.

Markwell Stamp Co., to Markrite Stamp Co., Inc., Greenfield, Mass. Steel stamps and metal marking devices. 304,985, renewed July 25, 1953. O. G. May 5. Class 23.

Martin Fabrics Corporation, New York, N. Y. Textile ribbons. 574,083, May 5; Serial No. 633,780, published Feb 10, 1953. Class 42.

Mastabar Belt Fastener Co. Limited, Hull, England. Fastening laces for belting. 574,002, May 5; Serial No. 624,347, published Feb. 10, 1953. Class 35.

Mastercraft Weaving Corp., Paterson, N. J. Upholstery materials. 574,070, May 5; Serial No. 632,736, published Feb. 10, 1953. Class 42.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Maxon Distributors: *See*—
Sidelman, Max.

Mayer, William, doing business under the name H. & M. Neckwear Co., New York, N. Y. Cravats. 573,932, May 5; Serial No. 595,729, published Apr. 3, 1951. Class 39.

McKinney, Marion A., Chicago, Ill. Miniature figures. 573,974, May 5; Serial No. 618,054, published Feb. 3, 1953. Class 50.

McLaughlin-Millard, Inc., Dolgeville, N. Y. Bowling pin. 574,080–1, May 5; Serial Nos. 633,460–1, published Feb. 17, 1953. Class 22.

McNeill, Alexander W., Saugus, Mass. Shoe lasts and parts of lasts. 574,064, May 5; Serial No. 632,038, published Feb. 3, 1953. Class 50.

Medomak Canning Company, Rockland, Maine. Canned apples. 573,936, May 5; Serial No. 602,047, published Feb. 10, 1953. Class 46.

Melpar, Inc., Alexandria, Va. Resinous composition. 574,003, May 5; Serial No. 624,652, published Feb. 10, 1953. Class 6.

Merck & Co., Inc., Rahway, N. J. Magnesium salts. 573,964, May 5; Serial No. 616,210, published Feb. 10, 1953. Class 6.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Men's, women's, and children's hats and hat bodies. 574,113, May 5; Serial No. 599,770. Class 39.

Metropolitan Shoemakers, Inc., Chicago, Ill. Ladies' shoes. 574,020, May 5; Serial No. 626,894, published Jan. 27, 1953. Class 39.

Meyercord Co., The, Chicago, Ill. Decalcomanias. 574,120, May 5; Serial No. 619,579. Class 38.

Miller Manufacturing Co., Inc., Joplin, Mo., and New York, N. Y. Men's and boys' work shirts and work trousers. 574,125, May 5; Serial No. 622,609. Class 39.

Mittinengue Paper Co., to Strathmore Paper Company, West Springfield, Mass. Fine writing-paper. 40,093–4, re-renewed Apr. 14, 1953. O. G. May 5. Class 37.

Modern Packagings, Dallas, Tex. Gift wrapping materials. 573,975, May 5; Serial No. 618,096, published Dec. 30, 1952. Class 37.

Moran, H. J., Co., Boston, Mass. Medicament. 574,076. May 5; Serial No. 633,207, published Jan. 27, 1953. Class 18.

Moran Shoe Company, Carlyle, Ill. Infants' shoes. 573,941, May 5; Serial No. 603,590, published Jan. 27, 1953. Class 39.

Morton Manufacturing Corp., doing business under the name and style of Blair of Virginia, Lynchburg, Va. Food flavoring extracts and fruit flavorings, pie filling mix. 574,107, May 5; Serial No. 588,631. Class 46.

Moss Stores, Inc., by I. Magnin & Co., San Francisco, Calif. Ladies' leather gloves. 332,391, Feb. 11, 1936. Republished May 5. Class 39.

Motor Trend Publications, Inc.: *See*—
Trend Incorporated.

Myers, Geo. T., & Co., Seattle, Wash., and Chatham, District of Alaska, to New England Fish Company, Seattle, Wash. Canned salmon. 90,303, re-renewed Feb. 18, 1953. O. G. May 5. Class 46.

Narrow Fabric Company, The, West Reading, Pa. Lace piece goods. 574,104, May 5; Serial No. 523,324. Class 42.

National Aluminate Corporation, Chicago, Ill. Chemical compositions. 573,956, May 5; Serial No. 612,700, published Feb. 10, 1953. Class 6.

National Bellas Hess, Inc., North Kansas City, Mo. Women's and girls' shoes, slippers, and loafers. 574,040, May 5; Serial No. 629,453, published Jan. 20, 1953. Class 39.

National Brass Company, Grand Rapids, Mich. Door locks. 573,942, May 5; Serial No. 604,656, published Jan. 15, 1952. Class 25.

National Chemical & Manufacturing Company, Chicago, Ill. Paste paints. 304,519, renewed July 11, 1953. O. G. May 5. Class 16.

National Department Stores Inc., by Jack Kreiss, trading as Jack Kreiss Co., New York, N. Y. Ladies' hosiery. 249,574, Nov. 20, 1928. Republished May 5. Class 39.

National Hotel Publishing Company, Chicago, Ill. Hotel directory or publication. 574,116, May 5; Serial No. 610,182. Class 38.

National Pressure Cooker Company, Eau Claire, Wis. Speed controls for outboard motors. 573,937, May 5; Serial No. 602,103, published Jan. 6, 1953. Class 23.

Nelson Knitting Company, Rockford, Ill. Hosiery. 304,817, renewed July 18, 1953. O. G. May 5. Class 39.

Neway Equipment Company, Muskegon, Mich. Dual axle spring assemblies for vehicles. 574,054, May 5; Serial No. 631,019, published Feb. 10, 1953. Class 19.

New England Bobbin and Shuttle Co., Nashua, N. H. Bobbins for use in the textile industry. 573,962, May 5; Serial No. 615,941, published Jan. 6, 1953. Class 23.

New England Fish Company: *See*—
Myers, Geo. T., & Co.

Nicosia, Anthony N., Chicago, Ill. Fuel oil. 574,123, May 5; Serial No. 621,572. Class 15.

Nielsen, A. C., Company, Chicago, Ill. Marketing research. 574,103, May 5; Serial No. 632,994, published Feb. 10, 1953. Class 101.

Nola Products: *See*—
Nolan, Francis E.

Nolan, Francis E., doing business as Nola Products, Chicago, Ill. Antiseptic foot wash powder. 574,127, May 5; Serial No. 623,361. Class 18.

Northern Greenhouses: *See*—
Dunle, Robert.

Northern Signal Company, Inc.: *See*—
Jones, Howard B.

Northwest Packing Co., Portland, Oreg. Canned vegetables. 441,581. Dec. 14, 1948. Republished May 5. Class 46.

Omstead Fisheries Limited, Wheatley, Ontario, Canada. Fresh and frozen fish. 574,004, May 5; Serial No. 624,656, published Feb. 10, 1953. Class 46.

Pacific Coast Borax Co., Division of Borax, Consolidated, Limited: *See*—
Borax Consolidated, Limited.

Pacific Mills, Boston, Mass., and New York, N. Y. Rayon piece goods. 574,058, May 5; Serial No. 631,372, published Feb. 10, 1953. Class 42.

Pacific Mills, New York, N. Y. Bed sheets. 574,042. May 5; Serial No. 629,744, published Feb. 10, 1953. Class 42.

Pando, Jacinto M., Mexico, D. F., Mexico, by Les Parfums De Dana, Inc., New York, N. Y. Perfumes, face powders, creams for the skin, etc. 373,461, Feb. 20, 1940. Republished May 5. Class 51.

Parfums Schiaparelli, Inc.: *See*—
Schiaparelli S. A.
Schiaparelli, Societe Anonyme.
Société des Parfums Schiaparelli (Societe Anonyme).

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes and toilet waters. 304,068, May 5, 1932. Republished May 5. Class 51.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, lipsticks, rouges, etc. 395,118–19, May 12, 1952. Republished May 5. Class 51.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouges, etc. 307,463, Sept. 8, 1942. Republished May 5. Class 51.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouges, etc. 397,585, Sept. 8, 1942. Republished May 5. Class 51.

Patterson-Sargent Company, The, Cleveland, Ohio. Paint applicator. 574,090, May 5; Serial No. 635,711, published Feb. 10, 1953. Class 29.

Paul, J. C., & Co., Skokie, Ill. Bactericide. 574,068, May 5; Serial No. 632,321, published Feb. 10, 1953. Class 6.

Pearl-Wick Corporation, Long Island City, N. Y. Hampers. 573,933, May 5; Serial No. 596,798, published Feb. 10, 1953. Class 2.

Pepsodent Co., The, Chicago, Ill., to Lever Brothers Company, New York, N. Y. Facial cream. 304,570, renewed July 11, 1953. O. G. May 5. Class 51.

Pepsodent Co., The, Chicago, Ill., to Lever Brothers Company, New York, N. Y. Food drink. 304,819, renewed July 18, 1953. O. G. May 5. Class 46.

Pettersen Manufacturing Company, Inc., The, Santa Barbara, Calif. Straightedge and ruler. 574,118, May 5; Serial No. 614,001. Class 26.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pillsbury Flour Mills Company, to Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 301,396, renewed Feb. 28, 1953. O. G. May 5. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Pilot Plastics, Inc., Paterson, N. J. Toy construction sets. 574,077, May 5; Serial No. 633,213, published Feb. 17, 1953. Class 22.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Flat glass. 300,922, renewed Feb. 14, 1953. O. G. May 5. Class 33.

Pond's Extract Company, New York, N. Y. Paper tissues. 574,032, May 5; Serial No. 628,168, published Dec. 30, 1952. Class 37.

Powers, Jack A., Westlake, La. Table syrup. 574,085. May 5; Serial No. 634,910, published Feb. 10, 1953. Class 46.

Premo Pharmaceutical Labs., Inc., South Hackensack, N. J. Suppositories. 573,990, May 5; Serial No. 621,982, published Jan. 27, 1953. Class 18.

Priestley, B., & Co., Inc., New York, N. Y. Men's neckties and suits. 574,019, May 5; Serial No. 626,840, published Jan. 27, 1953. Class 39.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser, and detergent. 573,023. May 5; Serial No. 567,430, published Feb. 10, 1953. Class 52.

Purdue Frederick Company, The, New York, N. Y. Therapeutic vaginal capsule. 574,044, May 5; Serial No. 630,020, published Feb. 10, 1953. Class 18.

Purdue Frederick Company, The, New York, N. Y. Solution of essential nutrients. 574,045, May 5; Serial No. 630,024, published Feb. 10, 1953. Class 18.

RCA Victor Company, Inc., Camden, N. J., to Radio Corporation of America, New York, N. Y. Photographic and electro-physical sound recording apparatus and equipment, etc. 302,712, renewed Apr. 25, 1953. O. G. May 5. Class 26.

Radescu, Nicolae, New York, N. Y. Monthly newspaper. 574,130, May 5; Serial No. 624,796. Class 38.

Radio Corporation of America: *See*—
RCA Victor Company, Inc.

Recessed Screw Co., Inc., New York, N. Y. Machine, wood, and metal screws. 574,053, May 5; Serial No. 630,911, published Jan. 13, 1953. Class 13.

Reddi-Wip, Inc., St. Louis, Mo. Empty double-seamed lacquer-lined low-pressure containers. 573,926, May 5; Serial No. 570,722, published Feb. 10, 1953. Class 2.

Reed, E. P., & Company, Rochester, N. Y. Shoes. 304,549. renewed July 11, 1953. O. G. May 5. Class 39.

Regal, John S., & Son, Inc., Cambridge, Mass. Cat and dog collars, leashes, and harnesses. 573,970. May 5; Serial No. 617,161, published Aug. 5, 1952. Class 3.

Reich, Herman J., doing business as Magic Iron Cement Company, Cleveland, Ohio. Liquid casein glue, crystal clear cement, powdered casein glue, etc. 573,943. May 5; Serial No. 605,054, published Feb. 17, 1953. Class 5.

Religion and Health, Durham, N. C. Periodical publication. 574,140, May 5; Serial No. 628,602. Class 38.

Remedol Laboratories: *See*—
Hoodenpyl, M. P.

Republic Steel Corporation: *See*—
Canton Culvert Company, The.
Gulf States Steel Company.

Rheumatol Company, The: *See*—
Wirth, Barbara.

Richman Ice Cream Co., Sharptown and Woodstown, N. J. Ice cream. 574,135, May 5; Serial No. 626,265. Class 46.

Riegel Paper Corporation, Riegelsville, N. J., to Riegel Paper Corporation, New York, N. Y. Wrapping papers. 304,089, renewed June 20, 1953. O. G. May 5. Class 37.

Riegel Textile Corporation, to Riegel Textile Corporation, New York, N. Y. Cotton piece goods and diapers. 304,873, renewed July 18, 1953. O. G. May 5. Class 42.

Ritter, Melrod, New York, N. Y. Women's and misses' dresses, suits, skirts, etc. 574,033, May 5; Serial No. 628,219, published Jan. 20, 1953. Class 39.

Roberts & Porter, Inc., Chicago, Ill. Fabric sleeves for dampening rollers of lithographing machines, etc. 573,950, May 5; Serial No. 610,801, published Sept. 23, 1952. Class 23.

Rochester Folding Box Co., The, Rochester, N. Y. Paperboard shipping cases. 573,967, May 5; Serial No. 616,609, published Feb. 10, 1953. Class 2.

Rogers Used Clothing Co. Inc., New York, N. Y. Bales of used clothing. 574,013, May 5; Serial No. 625,821, published Jan. 20, 1953. Class 39.

Romeo Packing Co., San Francisco, Calif. Canned fish. 573,928, May 5; Serial No. 584,079, published Feb. 3, 1953. Class 46.

Roquefort Association, Inc.: *See*—
Société des Caves et des Producteurs réunis de Roquefort.

Rose Manufacturing Company, Beacon, N. Y. Stimulants and fertilizers. 574,065, May 5; Serial No. 632,270, published Feb. 10, 1953. Class 10.

Rose Oil Company, Vicksburg, Miss. Gasoline, motor oil, kerosene, etc. 574,049, May 5; Serial No. 630,618, published Feb. 17, 1953. Class 15.

Russ, Raymond W., Fort Worth, Tex. Drafting triangles. 574,129, May 5; Serial No. 624,150. Class 20.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Flame cut steel shapes, metal bands and hoops, wire, and steel shafting. 574,059–60, May 5; Serial Nos. 631,498–9, published Feb. 10, 1953. Class 14.

Salada Tea Company, Inc.: *See*—
Larkin, P. C.

Schiaparelli S. A., Paris, France, by Parfums Schiaparelli, Inc., New York, N. Y. Perfumes. 320,501, Jan. 1, 1935. Republished May 5. Class 51.

Schiaparelli, Societe Anonyme, Paris, France, by Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouge, etc. 344,590, Mar. 30, 1937. Republished May 5. Class 51.

Scott, Robert R., Corp., New York, N. Y. Textile fabrics. 574,062, May 5; Serial No. 631,895, published Feb. 10, 1953. Class 42.

Scovill Manufacturing Company, Waterbury, Conn. Brass pipe and plumbing supplies. 574,022, May 5; Serial No. 627,093, published Feb. 10, 1953. Class 13.

Sears, Roebuck and Co., Chicago, Ill. School bags and carrying cases. 573,959, May 5; Serial No. 615,195, published Feb. 10, 1953. Class 3.

Sebel, D., and Company Limited, Erith, Kent, England. Perambulators and push-chairs, all being toys. 573,979, May 5; Serial No. 619,477, published Feb. 17, 1953. Class 22.

Seeman Brothers, Inc., New York, N. Y. Solidified air freshening deodorant. 574,016, May 5; Serial No. 626,269, published Feb. 10, 1953. Class 6.

Selig Company, Inc., The, Atlanta, Ga. Soap. 574,018, May 5; Serial No. 626,346, published Feb. 10, 1953. Class 52.

Selinger Textile Corporation, New York, N. Y. Piece goods. 574,079, May 5; Serial No. 633,380, published Feb. 10, 1953. Class 42.

Shelnker, W., & Sons, Inc., New York, N. Y. Wines 304,880, renewed July 18, 1953. O. G. May 5. Class 47.

Sherman Footwear Company, Marlboro, Mass. Shoes and slippers. 573,951, May 5; Serial No. 611,744, published Jan. 20, 1953. Class 39.

Shulman Abrash, Inc., Paterson, N. J. Curtains, portieres, bath mats, etc. 574,035, May 5; Serial No. 628,597, published Feb. 10, 1953. Class 42.

Sidelman, Max, trading as Maxon Distributors, New York, N. Y. Sun tan lotion. 574,037, May 5; Serial No. 628,880, published Feb. 10, 1953. Class 51.

Silver Knit Hosiery Mills, Inc., High Point, N. C. Men's hosiery. 574,126, May 5; Serial No. 623,320. Class 39.

Silverstein, Joseph: *See*—
Silverstein, Nellie.

Silverstein, Nellie, doing business as Vi-Vu Products, to J. Silverstein, New York, N. Y. Liquid hair and scalp cleanser and shampoo. 299,211, renewed Nov. 22, 1952. O. G. May 5. Class 52.

Sitroux Incorporated, New York N. Y. Toilet tissues. 574,028, May 5; Serial No. 627,844, published Dec. 30, 1952. Class 37.

Skillcraft Machine Tool Company, The, West Hartford, Conn. Boring drills. 573,968, May 5; Serial No. 616,647, published Jan. 6, 1953. Class 23.

Slater, Rodger & Company, Limited, Glasgow Scotland Whisky. 302,284, renewed Apr. 11, 1953. O. G. May 5. Class 49.

Slattery, Donald A., Hammond, Ind. Rotative disk calculator. 574,124, May 5; Serial No. 622,230. Class 26.

Snyder Chemical Corporation, Bethel, Conn. Synthetic resin compositions. 573,978, May 5; Serial No. 619,433, published Feb. 10 1953. Class 6.

Societe Anonyme des Caves & Producteurs reunis de Roquefort, Roquefort, France. Cheese. 40,159, re-renewed Apr. 21, 1953. O. G. May 5. Class 46.

Société des Caves et des Producteurs réunis de Roquefort (Aveyron), Roquefort, France, to Roquefort Association, Inc., New York, N. Y. Cheese. 40,060, re-renewed Apr. 7, 1953. O. G. May 5. Class 46.

Societe des Mines et Fonderies de Zinc de la Vieille-Montagne, Angleur, Belgium. Zinc. 573,981, May 5; Serial No. 619,772, published Feb. 17, 1953. Class 14.

Société des Parfums Schiaparelli (Societe Anonyme), Paris, France, by Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouge, lipsticks, etc. 304,491, Jan. 31, 1939. Republished May 5. Class 51.

Society Brand Clothes, Inc., Chicago, Ill. Worsted fabric. 573,954, May 5; Serial No. 612,519, published Feb. 10, 1953. Class 42.

Solnit Shoe Co., Los Angeles, Calif. Boots and shoes. 574,027, May 5; Serial No. 627,707, published Jan. 20, 1953. Class 39.

Spellings, Lucian L., doing business as Tom-Cat Products Co., Jonesboro, Ark. Rodenticides. 574,095, May 5; Serial No. 637,009, published Feb. 10, 1953. Class 6.

Sponge Rubber Products Co., The, Derby, to The Sponge Rubber Products Company, Shelton, Conn. Sponge rubber, medical sponge rubber, and rubber sponges. 300,788, renewed Feb. 7, 1953. O. G. May 5. Class 1.

Sponge Rubber Products Company, The: *See*—
Sponge Rubber Products Co., The.

Sport Products, Inc., Cincinnati, Ohio. Golf clubs. 573,999, May 5; Serial No. 623,446, published Feb. 10, 1953. Class 22.

Spradling, Earl F., St. Louis, Mo. Real estate monetary appraisal service. 574,101, May 5; Serial No. 620,441, published Feb. 10, 1953. Class 102.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Single-use injection unit. 573,977, May 5; Serial No. 619,313, published Jan. 20, 1953. Class 18.

Standard Oil Company of California: *See*—
Alta-Vis Oil Company.

Standard Oil Company, The, Cleveland, Ohio., and elsewhere. Lubricating oil. 574,074, May 5; Serial No. 633,177, published Jan. 27, 1953. Class 15.

Standard Register Company, The, Dayton, Ohio. Partially blank business forms. 573,949, May 5; Serial No. 608,960, published Dec. 30, 1952. Class 37.

Strass-Einiger Mills, Inc., New York, N. Y. Textile fabrics in the piece. 573,984, May 5; Serial No. 620,030, published Feb. 10, 1953. Class 42.

Strathmore Paper Company: *See*—
Mittineague Paper Co.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 302,380, renewed Apr. 18, 1953. O. G. May 5. Class 37.

Strathmore Paper Company, Mittineague, to Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 302,550, renewed Apr. 25, 1953. O. G. May 5. Class 37.

Sun Chemical Corporation, Long Island City, N. Y. Chemical composition. 574,096, May 5; Serial No. 637,010, published Feb. 10, 1953. Class 6.

Sun Electric Corporation, Chicago, Ill. Automotive power plant testing apparatus. 573,965, May 5; Serial No. 616,458, published Feb. 10, 1953. Class 26.

Sunkist Growers, Inc.: *See*—
California Packing Corporation.

Switzer Brothers, Inc., Cleveland, Ohio. Paper. 573,934, May 5; Serial No. 600,402, published Aug. 5, 1952. Class 37.

TeleVision Guide, Inc., New York, N. Y. Column in a periodical. 574,131, May 5; Serial No. 625,222. Class 38.

Thomas, M. & W., Co., New York, N. Y. Piece goods. 574,030, May 5; Serial No. 627,907, published Feb. 10, 1953. Class 42.

Tole Craft Products, Inc., assignee: *See*—
Malls Co., The.

Tom-Cat Products Co.: *See*—
Spellings, Lucian L.

Toni Company, The: *See*—
Gillette Company, The.

Trend Incorporated, Los Angeles, Calif., by change of name from Motor Trend Publications, Inc. Magazines. 574,117, May 5; Serial No. 611,037. Class 38.

Trojan Powder Company, Allentown, Pa. Resin forming composition. 573,960, May 5; Serial No. 615,357, published Feb. 10, 1953. Class 6.

Union Allumettière Société Anonyme, Brussels, Belgium. Impregnated safety matches. 573,973, May 5; Serial No. 617,564, published Feb. 17, 1953. Class 9.

United States Gauge Company, New York, N. Y., by American Machine and Metals, Inc., Sellersville, Pa. Gauges. 299,299, Nov. 29, 1932; republished May 5. Class 26.

United States Rubber Company, New York, N. Y. Fungicides. 573,998, May 5; Serial No. 623,442, published Feb. 17, 1953. Class 6.

United States Rubber Company, New York, N. Y. Herbicides. 574,094, May 5; Serial No. 636,906, published Feb. 10, 1953. Class 6.

Vesi Corporation, San Francisco, Calif. Pots and pans. 574,017, May 5; Serial No. 626,275, published Feb. 10, 1953. Class 13.

Vlavi Company, The: *See*—
Law, Hartland, Herbert E. Law.

Vlavi Company, The, San Francisco, Calif. Digestive tablets. 300,553, renewed Jan. 24 1953. O. G. May 5. Class 18.

Vlavi Company, The, San Francisco, Calif. Medicines—namely, liquid preparation for inflammatory conditions of the mucous membranes, etc. 301,946, renewed Mar. 21, 1953. O. G. May 5. Class 18.

Vi-Vu Products: *See*—
Silverstein, Nellie.

Vogue Shoe, Inc., Los Angeles, Calif. Women's shoes. 574,021, May 5; Serial No. 627,922, published Jan. 27, 1953. Class 39.

Vylactos Laboratories, Inc., Des Moines, Iowa. Antibiotic and vitamin supplement. 573,983, May 5; Serial No. 620,178, published Jan. 20, 1953. Class 18.

Ward, Samuel, Company, to Samuel Ward Manufacturing Company, Boston, Mass. Diaries and calendars. 91,534, re-renewed May 6, 1953. O. G. May 5. Class 37.

Ward, Samuel, Manufacturing Company: *See*—
Ward, Samuel, Company.

Washougal Woolen Mills, Washougal, Wash. Virgin wool fabrics. 574,073, May 5; Serial No. 632,968, published Feb. 10, 1953. Class 42.

Wilson Manufacturing Company, Wichita Falls, Tex., and elsewhere. Oil field tools and machinery. 573,927, May 5; Serial No. 579,059, published Jan. 6, 1953. Class 23.

Wirth, Barbara, doing business as The Rheumatol Company, Davenport, Iowa. Pharmaceutical preparation. 569,934, Feb. 3, 1953; corrected. O. G. May 5. Class 18.

Woonsocket Spinning Company, Inc., Woonsocket, R. I. Textile fabrics. 574,011, May 5; Serial No. 625,557, published Feb. 10, 1953. Class 42.

Wooster Brush Company, The, Wooster, Ohio. Paint applying devices. 574,093, May 5; Serial No. 636,104, published Feb. 10, 1953. Class 20.

Young, Stephen A., Corporation, Flora, Ind. Plumbing fixtures. 574,014, May 5; Serial No. 625,942, published Jan. 20, 1953. Class 13.

Youth Mode Bags, Inc., New York, N. Y. Traveling cases and traveling bags. 574,052, May 5; Serial No. 630,819, published Feb. 10, 1953. Class 3.

Zeller Corporation, The, Defiance, Ohio. All types of steel and alloy steel components. 574,069, May 5; Serial No. 632,706, published Feb. 17, 1953. Class 14.

Ziff-Davis Publishing Company, Chicago, Ill. Magazine. 574,114, May 5; Serial No. 606,680. Class 38.

Zippo Manufacturing Company, Bradford, Pa. Pyrophoric table lighters. 574,110, May 5; Serial No. 598,055. Class 8.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Sponge rubber, medical sponge rubber, and rubber sponges. The Sponge Rubber Products Co. 300,788, renewed Feb. 7, 1953. O. G. May 5.

CLASS 2

Bags. Bemis Bro. Bag Company. 573,938, May 5; Serial No. 602,486, published Feb. 10, 1953.

Bowls, Utility. The Bolta Company. 573,994, May 5; Serial No. 622,738, published Feb. 10, 1953.

Boxes. The Bolta Company. 573,993, May 5; Serial No. 622,737, published Feb. 10, 1953.

Boxes, Cardboard. Gerber Products Company. 573,935, May 5; Serial No. 601,495, published Feb. 10, 1953.

Cartons, Paper. Continental Can Company, Inc. 574,128, May 5; Serial No. 623,402.

Cases, Paperboard shipping. The Rochester Folding Box Co. 573,967, May 5; Serial No. 616,609, published Feb. 10, 1953.

Cases, Rollable. F. Heinze. 574,009, May 5; Serial No. 625,421, published Feb. 10, 1953.

Containers, Empty double-seamed lacquer-lined low-pressure. Reddi-Wip, Inc. 573,926, May 5; Serial No. 570,722, published Feb. 10, 1953.

Dishes, Domestic. Delaware Industrial Chemical Corporation. 573,922, May 5; Serial No. 563,605, published June 17, 1952.

Hampers. Pearl-Wick Corporation. 573,933, May 5; Serial No. 596,798, published Feb. 10, 1953.

Holder, Plastic. R. Dunie. 574,010, May 5; Serial No. 625,407, published Feb. 10, 1953.

Mother-of-pearl gift products and accessories—namely, pill boxes, lipstick cases, etc. The Marbill Co. Inc. 573,969, May 5; Serial No. 616,746, published Feb. 10, 1953.

Pill boxes, empty perfume vials for handbags, and empty combination perfume and lipstick containers. Klik Promotions, Inc. 574,111, May 5; Serial No. 598,373.

Steel dispensers. Guarantee Metal Products, Inc. 573,924, May 5; Serial No. 567,803, published Feb. 10, 1953.

Tanks, Underground and aboveground. Gasoline Equipment Manufacturing Company, Inc. 574,060, May 5; Serial No. 623,340, published Feb. 10, 1953.

CLASS 3

Brief cases and brief bags. Acme Brief Case Co. Inc. 574,072, May 5; Serial No. 632,803, publications Feb. 10, 1953.

Cat and dog collars, leashes, and harnesses. John S. Regal & Son, Inc. 573,970, May 5; Serial No. 617,161, published Aug. 5, 1952.

Handbags. Aetna Leather Novelty Co., Inc. 574,061, May 5; Serial No. 631,710, published Feb. 10, 1953.

Handbags and fitted handbags. Evans Case Co. 573,946, May 5; Serial No. 607,946, published Feb. 10, 1953.

School bags and carrying cases. Sears, Roebuck and Co. 573,959, May 5; Serial No. 615,195, published Feb. 10, 1953.

Traveling cases and traveling bags. Youth Mode Bags, Inc. 574,052, May 5; Serial No. 630,819, published Feb. 10, 1953.

Wallets. Philip Florio, Inc. 573,937, May 5; Serial No. 613,984, published Feb. 10, 1953.

Wallets, billfolds, pocketbooks, etc. Centra Leather Goods Corporation. 573,955, May 5; Serial No. 612,580, published Feb. 10, 1953.

CLASS 4

Abrasive paper and cloth, Flexible. Behr-Manning Corporation. 302,501, renewed Apr. 25, 1953. O. G. May 5.

Abrasives, Flexible and inflexible. Behr-Manning Corporation. 574,078, May 5; Serial No. 633,294, published Feb. 17, 1953.

Abrasives, Natural and artificial. Durex Abrasives Corporation. 573,992, May 5; Serial No. 622,206, published Feb. 17, 1953.

Boric acid spangles. Borax Consolidated, Limited. 574,007, May 5; Serial No. 625,094, published Feb. 17, 1953.

CLASS 5

Glue, Liquid casein, crystal clear cement, powdered casein glue, etc. H. J. Reich. 573,943, May 5; Serial No. 605,034, published Feb. 17, 1953.

CLASS 6

Air freshening deodorant, Solidified. Seeman Brothers, Inc. 574,016, May 5; Serial No. 626,269, published Feb. 10, 1953.

Ammonium compounds, Quaternary. Atlas Powder Company. 574,091, May 5; Serial No. 635,807, published Feb. 10, 1953.

Bactericide. J. C. Paul & Co. 574,068, May 5; Serial No. 632,321, published Feb. 10, 1953.

Carbon decomposer, anti-freeze compounds, chemicals and chemical preparations. The R. M. Hollingshead Co. 304,043, renewed July 11, 1953. O. G. May 5.

Chemical composition. Sun Chemical Corporation. 574,096, May 5; Serial No. 637,010, published Feb. 10, 1953.

Chemical compositions. National Aluminate Corporation. 573,956, May 5; Serial No. 612,700, published Feb. 10, 1953.

Chemical preparation. J. W. Jones. 296,856, Aug. 23, 1932. Republished May 5.

Chemicals. The Acorn Chemical Company. 574,099, May 5; Serial No. 638,034, published Feb. 10, 1953.

Chemicals. Eastman Kodak Company. 574,097, May 5; Serial No. 637,118, published Feb. 10, 1953.

Chemicals. Geigy Company, Inc. 574,089, May 5; Serial No. 635,095, published Feb. 10, 1953.

Dyes and dyestuffs. Geigy Company, Inc. 574,088, May 5; Serial No. 635,094, published Feb. 10, 1953.

Fungicides. United States Rubber Company. 573,998, May 5; Serial No. 623,442, published Feb. 17, 1953.

Herbicides. United States Rubber Company. 574,094, May 5; Serial No. 636,906, published Feb. 10, 1953.

Insecticides. G. D. Austin. 574,075, May 5; Serial No. 633,191, published Feb. 10, 1953.

Magnesium salts. Merck & Co., Inc. 573,964, May 5; Serial No. 616,210, published Feb. 10, 1953.

Organic odoriferous and flavor-imparting chemicals, organic chemicals. Givaudan-Delawanna, Inc. 573,925, May 5; Serial No. 570,486, published Feb. 10, 1953.

Preparation for repelling insects. The Joyner Corporation. 574,087, May 5; Serial No. 635,598, published Feb. 10, 1953.

Refined Irish moss extract. Algin Corporation of America. 573,996, May 5; Serial No. 623,325, published Feb. 17, 1953.

Refined sodium carrageenate. Algin Corporation of America. 573,997, May 5; Serial No. 623,328, published Feb. 17, 1953.

Resin forming composition. Trojan Powder Company. 573,960, May 5; Serial No. 615,357, published Feb. 10, 1953.

Resinous composition. Melpar, Inc. 574,003, May 5; Serial No. 624,652, published Feb. 10, 1953.

Rodenticides. L. L. Spellings. 574,095, May 5; Serial No. 637,009, published Feb. 10, 1953.

Rubber preservative and rust inhibitor. Industrial Research Laboratories. 573,944, May 5; Serial No. 607,027, published Feb. 17, 1953.

Synthetic resin compositions. Snyder Chemical Corporation. 573,978, May 5; Serial No. 619,433, published Feb. 10, 1953.
Synthetic resins and catalysts. Johnson & Johnson. 574,084, May 5; Serial No. 633,984, published Feb. 10, 1953.
Wetting agent and acid accelerator. Haas Miller Corporation. 574,012, May 5; Serial No. 625,594, published Feb. 10, 1953.

CLASS 8

Lighters, Pyrophoric table. Zippo Manufacturing Company. 574,110, May 5; Serial No. 598,055.

CLASS 9

Matches, Impregnated safety. Union Allumettière Société Anonyme. 573,973, May 5; Serial No. 617,564, published Feb. 17, 1953.

CLASS 10

Fertilizer. Farmers Educational and Cooperative Union of America. 573,963, May 5; Serial No. 615,977, published Jan. 20, 1953.
Plant food. Antro Gardens, Inc. 574,041, May 5; Serial No. 629,709, published Feb. 10, 1953.
Soil amender, Potassium-bearing. H. E. Fletcher Co. 573,947, May 5; Serial No. 607,947, published Feb. 10, 1953.
Soil conditioner. Henry A. Dreer, Inc. 574,039, May 5; Serial No. 629,236, published Feb. 17, 1953.
Stimulants and fertilizers. Rose Manufacturing Company. 574,065, May 5; Serial No. 632,270, published Feb. 10, 1953.

CLASS 12

Acidproof material, used for lining or coating steel or concrete pipes, structures, tanks, etc. Amercoat Corporation. 573,929–31, May 5; Serial Nos. 593,456–8, published Feb. 10, 1953.
Cement, Asphaltic plastic roof, caulking compound, sewer joint primer, etc. C. L. Aylward, Jr. 574,005, May 5; Serial No. 624,725, published Feb. 10, 1953.
Plumbing and steam fitting supplies. The Philip Carey Manufacturing Company. 573,921, May 5; Serial No. 556,411, published May 29, 1951.

CLASS 13

Brass pipe and plumbing supplies. Scovill Manufacturing Company. 574,022, May 5; Serial No. 627,093, published Feb. 10, 1953.
Metal clips. Level-Line Ceilings Inc. 573,989, May 5; Serial No. 621,369, published Jan. 20, 1953.
Metal combination storing and cooking containers. The Aluminum Cooking Utensil Company. 574,008, May 5; Serial No. 625,180, published Feb. 10, 1953.
Nails. Gulf States Steel Company. 296,595, Aug. 16, 1932. Republished May 5.
Nestable corrugated culverts. The Canton Culvert Company. 88,240, Sept. 10, 1912. Republished May 5.
Nozzles, Porcelain. Frenchtown Porcelain Company. 573,985, May 5; Serial No. 620,779, published Jan. 27, 1953.
Plumbing fixtures. Stephen A. Young Corporation. 574,014, May 5; Serial No. 625,942, published Jan. 20, 1953.
Pots and pans. Vesl Corporation. 574,017, May 5; Serial No. 626,275, published Feb. 10, 1953.
Screws, Machine, wood, and metal. Recessed Screw Co., Inc. 574,053, May 5; Serial No. 630,911, published Jan. 13, 1953.
Sheet metal tumblers and bowls. Basca Manufacturing Company, Inc. 574,055, May 5; Serial No. 631,040, published Jan. 20, 1953.
Sub-soil feeding tube. R. V. Blazek. 574,043, May 5; Serial No. 629,883, published Feb. 3, 1953.
Valves. Automatic Pump & Softener Corporation. 573,980, May 5; Serial No. 619,596, published Feb. 10, 1953.

CLASS 14

Flame cut steel shapes, metal bands and hoops, wire, and steel shafting. Joseph T. Ryerson & Son, Inc. 574,059–60, May 5; Serial Nos. 631,498–9, published Feb. 10, 1953.
Iron castings, Nickel-containing. The International Nickel Company, Inc. 302,033, renewed Mar. 21, 1953. O. G. May 5.
Rail anchoring stud. American Brake Shoe Company. 574,066, May 5; Serial No. 632,282, published Feb. 17, 1953.
Steel and alloy steel components, All types of. The Zeller Corporation. 574,069, May 5; Serial No. 632,706, published Feb. 17, 1953.
Zinc. Societe des Mines et Fonderies de Zinc de la Vieille-Montagne. 573,981, May 5; Serial No. 619,772, published Feb. 17, 1953.

CLASS 15

Gasoline, motor oil, kerosene, etc. Rose Oil Company. 574,049, May 5; Serial No. 630,618, published Feb. 17, 1953.
Oil, Fuel. A. N. Nicosia. 574,123, May 5; Serial No. 621,372.
Oil, Lubricating. The Standard Oil Company. 574,074, May 5; Serial No. 633,177, published Jan. 27, 1953.
Oils, Lubricating. Alta-Vis Oil Company. 300,668, renewed Jan. 31, 1953. O. G. May 5.
Oils, Lubricating. Consumers Oil Company. 573,939, May 5; Serial No. 602,603, published Oct. 16, 1951.

CLASS 16

Painters' wall size. The Cleveland Cleaner and Paste Co. 304,453, renewed July 11, 1953. O. G. May 5.
Paints and enamels, Ready mixed. American-Marietta Company. 574,142, May 5; Serial No. 631,526.
Paints, Paste. National Chemical & Manufacturing Company. 304,519, renewed July 11, 1953. O. G. May 5.

CLASS 18

Antibiotic and vitamin supplement. Vylactos Laboratories, Inc. 573,983, May 5; Serial No. 620,178, published Jan. 20, 1953.
Anti-heparin compound. Abbott Laboratories. 574,098, May 5; Serial No. 637,977, published Jan. 27, 1953.
Antiseptic and bacteriostatic preparation. Allied Laboratories, Inc. 573,982, May 5; Serial No. 619,794, published Jan. 20, 1953.
Antiseptic foot wash powder. F. E. Nolan. 574,127, May 5; Serial No. 623,361.
Chemical preparation. J. W. Jones. 296,856, Aug. 23, 1932. Republished May 5.
Digestive tablets. The Viavi Company. 300,553, renewed Jan. 24, 1953. O. G. May 5.
Medicament. R. J. Moran Co. 574,076, May 5; Serial No. 633,207, published Jan. 27, 1953.
Medicinal preparation. M. P. Hoodenpyl. 573,987, May 5; Serial No. 621,316, published Jan. 20, 1953.
Medicines—namely, liquid preparation for inflammatory conditions of the mucous membranes, etc. The Viavi Company. 301,946, renewed Mar. 21, 1953. O. G. May 5.
Pharmaceutical preparation. B. Wirth. 569,934, Feb. 3, 1953; corrected. O. G. May 5.
Pharmaceuticals. Intermedico Corporation. 574,056, May 5; Serial No. 631,290, published Feb. 10, 1953.
Remedies for diseases of the bladder and stomach. C. J. Hewlett & Son Limited. 90,330, rerenewed Feb. 18, 1953. O. G. May 5.
Single-use injection unit. E. R. Squibb & Sons. 573,977, May 5; Serial No. 619,313, published Jan. 20, 1953.
Solution of essential nutrients. The Purdue Frederick Company. 574,045, May 5; Serial No. 630,024, published Feb. 10, 1953.
Suppositories. Premo Pharmaceutical Labs., Inc. 573,990, May 5; Serial No. 621,982, published Jan. 27, 1953.
Suppositories, vaginal. Commercial Solvents Corporation. 574,100, May 5; Serial No. 638,065, published Jan. 27, 1953.
Therapeutic vaginal capsule. The Purdue Frederick Company. 574,044, May 5; Serial No. 630,020, published Feb. 10, 1953.
Tonic. H. and H. E. Law. 66,749, Dec. 24, 1907. Republished May 5.
Tonic bitters. Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited. 90,152, rerenewed Feb. 11, 1953. O. G. May 5.

CLASS 19

Automobile visors. Dieterich Products Corporation. 573,971, May 5; Serial No. 617,392, published Sept. 16, 1952.
Spring assemblies for vehicles, Dual axle. Neway Equipment Company. 574,054, May 5; Serial No. 631,019, published Feb. 10, 1953.
Vehicle brakes and parts thereof and operating connections therefor, vehicle braking systems, etc. Bendix Aviation Corporation. 574,023, May 5; Serial No. 627,422, published Feb. 17, 1953.

CLASS 21

Fans, Electric. Knapp-Monarch Company. 304,529, renewed July 11, 1953. O. G. May 5.
Radio receiving, detecting, and transmitting sets and parts thereof. Columbia Phonograph Company, Inc. 295,904, renewed July 19, 1952. O. G. May 5.

CLASS 22

Bowling pin. McLaughlin-Millard, Inc. 574,080–1, May 5; Serial Nos. 633,460–1, published Feb. 17, 1953.
Children's painting kits. R. E. Grossman. 574,137, May 5; Serial No. 626,672.
Exercisers. Childhood Interests, Inc. 403,047, Aug. 31, 1943. Republished May 5.
Exercisers. Childhood Interests, Inc. 426,732, Jan. 7, 1947. Republished May 5.
Game, Educational. I. Jacobs. 573,976, May 5; Serial No. 619,244, published Feb. 10, 1953.
Golf clubs. Sport Products, Inc. 573,999, May 5; Serial No. 623,446, published Feb. 10, 1953.
Perambulators and push-chairs, all being toys. D. Sebel and Company Limited. 573,979, May 5; Serial No. 619,477, published Feb. 17, 1953.
Toy construction sets. Pilot Plastics, Inc. 574,077, May 5; Serial No. 633,213, published Feb. 17, 1953.
Toy drawing outfits. H. B. Jones. 304,248, renewed June 27, 1953. O. G. May 5.

CLASS 23

Bobbins for use in the textile industry. New England Bobbin and Shuttle Co. 573,962, May 5; Serial No. 615,041, published Jan. 6, 1953.
Boring drills. The Skillcraft Machine Tool Company. 573,968, May 5; Serial No. 616,647, published Jan. 6, 1953.
Fabric sleeves for dampening rollers of lithographing machines, etc. Roberts & Porter, Inc. 573,950, May 5; Serial No. 610,801, published Sept. 23, 1952.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 92,617, rerenewed July 22, 1953. O. G. May 5.
Speed controls for outboard motors. National Pressure Cooker Company. 573,937, May 5; Serial No. 602,103, published Jan. 6, 1953.
Steel stamps and metal marking devices. Markwell Stamp Co. 304,985, renewed July 25, 1953. O. G. May 5.
Tools and machinery, Oil field. Wilson Manufacturing Company. 573,927, May 5; Serial No. 579,959, published Jan. 6, 1953.

CLASS 25

Builders hardware—namely, locks, latches, etc. Hollymade Hardware Mfg. Co. 574,006, May 5; Serial No. 625,069, published Sept. 30, 1952.
Locks, Door. National Brass Company. 573,942, May 5; Serial No. 604,656, published Jan. 15, 1952.

CLASS 26

Apparatus to train a student driver in the use of the controls of an automobile, etc. The Aetna Casualty and Surety Company. 574,134, May 5; Serial No. 625,948.
Calculator, Rotative disk. D. A. Slattery. 574,124, May 5; Serial No. 622,230.
Drafting triangles. R. W. Russ. 574,129, May 5; Serial No. 624,159.
Gauges. United States Gauge Company. 299,299, Nov. 29, 1932. Republished May 5.
Materials and equipment for engineers, architects, surveyors and draftsmen. Berger Scientific Supplies, Inc. 574,132, May 5; Serial No. 625,230.
Ophthalmic mountings. Liberty Optical Manufacturing Co., Inc. 574,122, May 5; Serial No. 620,919.
Photographic and electro-physical sound recording apparatus and equipment, etc. RCA Victor Company, Inc. 302,712, renewed Apr. 25, 1953. O. G. May 5.
Stereoscopic viewers and accessories. Brumberger Co. Inc. 574,119, May 5; Serial No. 617,906.
Straightedge and ruler. The Pettersen Manufacturing Company, Inc. 574,118, May 5; Serial No. 614,061.
Testing apparatus, Automotive power plant. Sun Electric Corporation. 573,965, May 5; Serial No. 616,458, published Feb. 10, 1953.
Tongue depressor and measuring spoon, Combination. B. A. Margolis. 574,121, May 5; Serial No. 619,705.

CLASS 27

Watches and their attached bracelets, Bracelet. Bulova Watch Company, Inc. 302,038, renewed Mar. 21, 1953. O. G. May 5.

CLASS 28

Bracelets. The Hadley Company, Inc. 300,604, renewed Jan. 31, 1953. O. G. May 5.
Hollowware and tableware. Gorham Manufacturing Company. 573,995, May 5; Serial No. 622,892, published Feb. 10, 1953.
Jewelry. Hallmark Ring Corporation. 573,958, May 5; Serial No. 614,250, published Feb. 3, 1953.

CLASS 29

Paint applicator. The Patterson-Sargent Company. 574,090, May 5; Serial No. 635,711, pulished Feb. 10, 1953.
Paint applying devices. The Wooster Brush Company. 574,093, May 5; Serial No. 636,104, published Feb. 10, 1953.

CLASS 32

Furniture. Kent-Coffey Manufacturing Company. 574,108, May 5; Serial No. 590,372.
Tables, Occasional, lamp tables, and cocktail tables. Grand American Furniture Corp. 574,115, May 5; Serial No. 609,540.

CLASS 33

Glass, Flat. Pittsburgh Plate Glass Company. 300,922, renewed Feb. 14, 1953. O. G. May 5.
Watch crystals. Germanow-Simon Machine Co. 300,879, renewed Feb. 14, 1953. O. G. May 5.

CLASS 35

Fastening-laces for belting. Mastabar Belt Fastener Co. Limited. 574,002, May 5; Serial No. 624,347, published Feb. 10, 1953.

CLASS 37

Diaries and calendars. Samuel Ward Company. 91,534, re-renewed May 6, 1953. O. G. May 5.
Gift wrapping materials. Modern Packagings. 573,975, May 5; Serial No. 618,096, published Dec. 30, 1952.
Index sheets with tabs. Cel-U-Dex Corporation. 574,024, May 5; Serial No. 627,487, published Dec. 30, 1952.
Index tab sets, Insertable, and also acetate covers with insertable index tab sets. Cel-U-Dex Corporation. 574,026, May 5; Serial No. 627,491, published Dec. 30, 1952.
Paper. Switzer Brothers, Inc. 573,934, May 5; Serial No. 600,402, published Aug. 5, 1952.
Paper table appointments. Astell & Jones, Inc. 574,029, May 5; Serial No. 627,856, published Dec. 30, 1952.
Paper, Writing and printing. Strathmore Paper Company. 302,389, renewed Apr. 28, 1953. O. G. May 5.
Paper, Writing and printing. Strathmore Paper Company. 302,550, renewed Apr. 28, 1953. O. G. May 5.
Papers. E. E. Lloyd Paper Company. 573,988, May 5; Serial No. 621,322, published Dec. 30, 1952.
Papers, Wrapping. Riegel Paper Corporation. 304,089, renewed June 20, 1953. O. G. May 5.
Partially blank business forms. The Standard Register Company. 573,949, May 5; Serial No. 608,960, published Dec. 30, 1952.
Post binder indexes. Cel-U-Dex Corporation. 574,025, May 5; Serial No. 627,488, published Dec. 30, 1952.
Tissues, Paper. Pond's Extract Company. 574,032, May 5; Serial No. 628,168, published Dec. 30, 1952.
Tissues, Toilet. Sitroux, Incorporated. 574,028, May 5; Serial No. 627,844, published Dec. 30, 1952.
Writing-paper, Fine. Mittineague Paper Co. 40,093–4, re-renewed Apr. 14, 1953. O. G. May 5.

CLASS 38

Column in a periodical. TeleVision Guide, Inc. 574,131, May 5; Serial No. 625,222.
Decalcomanias. The Meyercord Co. 574,120, May 5; Serial No. 619,579.
Directory or publication, Hotel. National Hotel Publishing Company. 574,116, May 5; Serial No. 610,182.
Magazine. American Publications, Inc. 574,106, May 5; Serial No. 579,161.
Magazine. Ziff-Davis Publishing Company. 574,114, May 5; Serial No. 606,689.
Magazines. Trend Incorporated. 574,117, May 5; Serial No. 611,037.
Newspaper, Monthly. N. Radescu. 574,130, May 5; Serial No. 624,796.
Periodical. The Dealers Digest Publishing Company, Inc. 574,109, May 5; Serial No. 595,250.
Printed advertising posters and signs and identification labels. Fitzgerald-Nelson Company. 574,136, May 5; Serial No. 626,373.
Printed personality and achievement tests including reading tests. California Test Bureau. 574,112, May 5; Serial No. 599,691.
Publication, Periodical. Religion and Health. 574,140, May 5; Serial No. 628,602.
Publication, Weekly trade. American International Publications, Inc. 574,138, May 5; Serial No. 627,480.

CLASS 39

Apparel for women and children. Best & Co. Inc. 304,508, renewed July 11, 1953. O. G. May 5.
Boots and shoes. C. H. Hyer & Sons. 574,031, May 5; Serial No. 627,943, published Jan. 20, 1953.
Boots and shoes. International Shoe Company. 303,771, renewed June 6, 1953. O. G. May 5.
Boots and shoes. Manfield and Sons, Limited. 573,991, May 5; Serial No. 622,079, published Dec. 30, 1952.
Boots and shoes, Solnit Shoe Co. 574,027, May 5; Serial No. 627,707, published Jan. 20, 1953.
Boots and shoes, Men's, women's, and children's. A. H. Geuting Company. 302,759, renewed Apr. 25, 1953. O. G. May 5.
Clothing, Bales of used. Rogers Used Clothing Co. Inc. 574,013, May 5; Serial No. 625,821, published Jan. 20, 1953.
Clothing, Ladies' and men's. E. Jacobs. 573,986, May 5; Serial No. 620,966, published Jan. 20, 1953.
Clothing, Men's, women's, and children's. Kirby, Block & Fischer, Inc. 286,849, Sept. 8, 1931. Republished May 5.
Coats and suits, Ladies', misses', and juniors'. Baitch & Castaldi, Inc. 573,960, May 5; Serial No. 616,583, published Jan. 20, 1953.
Cravats. W. Mayer. 573,932, May 5; Serial No. 595,729, published Apr. 3, 1951.
Dresses, aprons, blouses, etc., Women's. Etablissements Veuve Louis Tant. 573,948, May 5; Serial No. 608,753, published Jan. 20, 1953.
Dresses, suits, and coats, Women's. R. H. Macy & Co., Inc. 302,210, renewed Apr. 4, 1953. O. G. May 5.
Dresses, suits, skirts, etc., Women's and misses'. M. Ritter. 574,033, May 5; Serial No. 628,219, published Jan. 20, 1953.
Footwear. The Florsheim Shoe Company. 573,945, May 5; Serial No. 607,804, published Jan. 20, 1953.
Footwear. The B. F. Goodrich Company. 573,953, May 5; Serial No. 612,069, published Jan. 20, 1953.
Frocks, dressing gowns, wrappers, etc., Women's and misses' party. Dumari Textile Co., Inc. 303,524, renewed May 30, 1953. O. G. May 5.
Gloves, Ladies' leather. Moss Stores, Inc. 332,391, Feb. 11, 1936. Republished May 5.
Gowns, dresses, skirts, etc., Women's, misses', children's, and infants'. I. Magnin & Co. 281,270, Mar. 17, 1931. Republished May 5.

Hats and articles in the nature of hats. Borsalino Giuseppe e Fratello S. p. A. 574,105, May 5; Serial No. 574,816.
Hats and hat bodies. Men's, women's, and children's. Merrimac Hat Corporation. 574,113, May 5; Serial No. 599,770.
Hosiery. Nelson Knitting Company. 304,817, renewed July 18, 1953. O. G. May 5.
Hosiery, Ladies'. H. Conston. 299,047, renewed Nov. 22, 1952. O. G. May 5.
Hosiery, Ladies'. National Department Stores Inc. 249,574, Nov. 20, 1928. Republished May 5.
Hosiery, Men's. Silver Knit Hosiery Mills, Inc. 574,126, May 5; Serial No. 623,320.
Neckties and suits, Men's. B. Priestley & Co., Inc. 574,019, May 5; Serial No. 626,840, published Jan. 27, 1953.
Pajamas, Ladies' and misses'. Gold-Craft Mfg. Co. 574,139, May 5; Serial No. 628,531.
Shirts and work trousers, Men's and boys' work. Miller Manufacturing Co., Inc. 574,125, May 5; Serial No. 622,669.
Shoes. E. P. Reed & Company. 304,549, renewed July 11, 1953. O. G. May 5.
Shoes and slippers. Sherman Footwear Company. 573,951, May 5; Serial No. 611,744, published Jan. 20, 1953.
Shoes, Infants'. Moran Shoe Company. 573,941, May 5; Serial No. 603,590, published Jan. 27, 1953.
Shoes, Ladies'. Metropolitan Shoemakers, Inc. 574,020, May 5; Serial No. 626,894, published Jan. 27, 1953.
Shoes, Men's and boys'. Craddock-Terry Shoe Corporation. 573,952, May 5; Serial No. 611,769, published Jan. 20, 1953.
Shoes, slippers, and loafers, Women's and girls'. National Bellas Hess, Inc. 574,040, May 5; Serial No. 629,453, published Jan. 20, 1953.
Shoes, Women's. The Longini Shoe Manufacturing Co. 573,920, May 5; Serial No. 529,001, published Dec. 18, 1951.
Shoes, Women's. Vogue Shoe, Inc. 574,021, May 5; Serial No. 627,022, published Jan. 27, 1953.
Slippers. S. Goldberg & Co., Inc. 207,851, Jan. 12, 1926. Republished May 5.
Suits, neckties, and mufflers, etc., Men's and women's. Kirby, Block & Fischer, Inc. 278,623, Dec. 23, 1930. Republished May 5.

CLASS 40

Hair-pins. Hump Hair Pin Company. 91,875, re-renewed June 3, 1953. O. G. May 5.

CLASS 42

Curtains, portieres, bath mats, etc. Shulman Abrash, Inc. 574,035, May 5; Serial No. 628,597, published Feb. 10, 1953.
Curtains, Window. Berkshire Fine Spinning Associates, Inc. 574,038, May 5; Serial No. 629,085, published Feb. 10, 1953.
Draperies and window curtains and curtain fabrics. House Beautiful Curtains, Inc. 574,082, May 5; Serial No. 633,771, published Feb. 10, 1953.
Fabrics in the piece. Crompton Company. 574,086, May 5; Serial No. 635,122, published Feb. 10, 1953.
Fabrics-in-the-piece. Grandma Moses Properties, Inc. 574,071, May 5; Serial No. 632,835, published Feb. 10, 1953.
Fabrics in the piece, Textile. Strass-Elniger Mills, Inc. 573,984, May 5; Serial No. 620,630, published Feb. 10, 1953.
Fabrics, Knitted and woven. Continental Mills, Inc. 574,050, May 5; Serial No. 630,653, published Feb. 10, 1953.
Fabrics, Knitted and woven. Continental Mills, Inc. 574,051, May 5; Serial No. 630,655, published Feb. 10, 1953.
Fabrics, Textile. Carlton Mills Company. 574,001, May 5; Serial No. 624,330, published Feb. 10, 1953.
Fabrics, Textile. Robert R. Scott Corp. 574,062, May 5; Serial No. 631,895, published Feb. 10, 1953.
Fabrics, Textile. Woonsocket Spinning Company, Inc. 574,011, May 5; Serial No. 625,557, published Feb. 10, 1953.
Fabrics, Virgin wool. Washougal Woolen Mills. 574,073, May 5; Serial No. 632,968, published Feb. 10, 1953.
Fabric, Worsted. Society Brand Clothes, Inc. 573,954, May 5; Serial No. 612,519, published Feb. 10, 1953.
Piece goods. Selinger Textile Corporation. 574,079, May 5; Serial No. 633,380, published Feb. 10, 1953.
Piece goods. M. & W. Thomas Co. 574,030, May 5; Serial No. 627,907, published Feb. 10, 1953.
Piece goods, Cotton, and diapers. Riegel Textile Corporation. 304,873, renewed July 18, 1953. O. G. May 5.
Piece goods, Lace. The Narrow Fabric Company. 574,104, May 5; Serial No. 523,324.
Piece goods, Rayon. Pacific Mills. 574,058, May 5; Serial No. 631,372, published Feb. 10, 1953.
Piece goods, Woolen. E. M. Bloomberg & Co., Inc. 574,057, May 5; Serial No. 631,338, published Feb. 10, 1953.
Piece goods, Woolen. British Samek Limited. 574,092, May 5; Serial No. 635,900, published Feb. 10, 1953.
Piece goods, Woolen. California Sportwear Company. 574,144, May 5; Serial No. 633,033.
Rugs, Textile floor. Sidney Blumenthal & Co., Inc. 574,047, May 5; Serial No. 630,293, published Feb. 10, 1953.
Sheets, Bed. Pacific Mills. 574,042, May 5; Serial No. 629,744, published Feb. 10, 1953.
Sheets, Textile, sheetings, and pillow cases. Cannon Mills, Inc. 302,786, Apr. 25, 1933. Republished May 5.
Textile ribbons. Martin Fabrics Corporation. 574,083, May 5; Serial No. 633,780, published Feb. 10, 1953.
Upholstery materials. Mastercraft Weaving Corp. 574,070, May 5; Serial No. 632,736, published Feb. 10, 1953.

CLASS 43

Thread, Sewing. K. G. Gütermann & Co. 574,143, May 5; Serial No. 632,476.

CLASS 45

Cider. Laird & Co., Inc. 304,700, renewed July 18, 1953. O. G. May 5.
Cider. Laird & Company, Incorporated. 301,623, renewed Mar. 7, 1953. O. G. May 5.
Ginger ale, sarsaparilla, and root beer. J. Friedrich. 179,115, Feb. 5, 1924. Amended. O. G. May 5.
Soft drinks, Maltless, and carbonated waters. Colfax Mineral Springs Company, Inc. 574,133, May 5; Serial No. 625,716.

CLASS 46

Bread, Hard. Aktiebolaget Skanska Spisbrodsfabriken. 301,333, renewed Feb. 28, 1953. O. G. May 5.
Cakes, biscuits, crackers, etc. Manufacture Dijonnaise Des Biscuits Pernot, Societe Anonyme. 298,962, renewed Nov. 15, 1952. O. G. May 5.
Canned apples. Medomak Canning Company. 573,936, May 5; Serial No. 602,047, published Feb. 10, 1953.
Canned fish. Romeo Packing Co. 573,928, May 5; Serial No. 584,079, published Feb. 3, 1953.
Canned food. Animal Foods Company. 303,304, renewed May 23, 1953. O. G. May 5.
Canned fruit, dried fruit, raisins, etc. California Packing Corporation. 304,059, renewed July 11, 1953. O. G. May 5.
Canned salmon. Geo. T. Myers & Co. 90,363, re-renewed Feb. 18, 1953. O. G. May 5.
Canned vegetables. Northwest Packing Co. 441,581, Dec. 14, 1948. Republished May 5.
Cheese. Societe Anonyme des Caves & Producteurs reunis de Roquefort. 40,159, re-renewed Apr. 21, 1953. O. G. May 5.
Cheese. Société des Caves et des Producteurs réunis de Roquefort (Aveyron). 40,060, re-renewed Apr. 7, 1953. O. G. May 5.
Chocolate and cocoa. J. S. Fry and Sons, Limited. 90,982, re-renewed Apr. 8, 1953. O. G. May 5.
Cocoa. P. C. Larkin. 92,805, re-renewed July 29, 1953. O. G. May 5.
Fish, Fresh and frozen. Omstead Fisheries Limited. 574,004, May 5; Serial No. 624,656, published Feb. 10, 1953.
Flour, Wheat. Pillsbury Flour Mills Company. 301,396, renewed Feb. 28, 1953. O. G. May 5.
Food drink. The Pepsodent Co. 304,819, renewed July 18, 1953. O. G. May 5.
Food flavoring extracts and fruit flavorings, pie filling mix. Morton Manufacturing Corp. 574,107, May 5; Serial No. 588,651.
Food, Stock. General Mills, Inc. 302,765, renewed Apr. 25, 1953. O. G. May 5.
Fruit, Dried. California Prune and Apricot Growers Association. 303,177, renewed May 16, 1953. O. G. May 5.
Fruit, Fresh citrus. Canoga Citrus Association. 304,818, renewed July 18, 1953. O. G. May 5.
Ice cream. Richman Ice Cream Co. 574,135, May 5; Serial No. 626,265.
Lettuce, Fresh. O. O. Eaton. 300,683, renewed Jan. 31, 1953. O. G. May 5.
Milk, malted milk, and food-product milk. Borden's Condensed Milk Co. 40,692, re-renewed June 30, 1953. O. G. May 5.
Olive oils. A. Buffa. 574,141, May 5; Serial No. 630,056.
Preservative for silage for livestock. Clinton Foods, Inc. 574,048, May 5; Serial No. 630,389, published Feb. 10, 1953.
Syrup, Table. J. A. Powers. 574,085, May 5; Serial No. 634,910, published Feb. 10, 1953.

CLASS 47

Wines. W. Sheinker & Sons, Inc. 304,880, renewed July 18, 1953. O. G. May 5.

CLASS 49

Liqueur, Distilled alcoholic. The Drambuie Liqueur Coy (1927) Limited. 303,089, renewed May 9, 1953. O. G. May 5.
Whisky. Slater, Rodger & Company, Limited. 302,284, renewed Apr. 11, 1953. O. G. May 5.

CLASS 50

Flexible, translucent and transparent sheet materials, etc. Flex-O-Glass, Inc. 573,961, May 5; Serial No. 615,378, published Jan. 27, 1953.
Kits containing artist's oil colors, artist's brush, etc. The Mails Co. 574,046, May 5; Serial No. 630,276, published Feb. 10, 1953.
Miniature figures. M. A. McKinney. 573,974, May 5; Serial No. 618,054, published Feb. 3, 1953.
Semi-felted fabric. American Felt Company. 573,940, May 5; Serial No. 602,737, published Feb. 10, 1953.
Sheet fibreboard and leatherboard. George O. Jenkins Company. 574,063, May 5; Serial No. 631,934, published Feb. 10, 1953.
Shoe lasts and parts of lasts. A. W. McNeill. 574,064, May 5; Serial No. 632,038, published Feb. 3, 1953.

CLASS 51

Creme hair rinse. The Gillette Company. 574,036, May 5; Serial No. 628,088, published Feb. 10, 1953.
Eau de cologne. Lever Brothers Company. 574,034, May 5; Serial No. 628,409, published Feb. 10, 1953.
Facial cream. The Pepsodent Co. 304,570, renewed July 11, 1953. O. G. May 5.
Lotion, Sun tan. M. Sidman. 574,037, May 5; Serial No. 628,880, published Feb. 10, 1953.
Perfumes. Schiaparelli, S. A. 320,501, Jan. 1, 1953. Republished May 5.
Perfumes and face powder. Coty, Inc. 301,605, renewed Mar. 7, 1953. O. G. May 5.
Perfumes and perfumery. Elizabeth Arden Inc. 302,456, renewed Apr. 18, 1953. O. G. May 5.
Perfumes and perfumery, cleansing cream, face and hand lotion, etc. Elizabeth Arden Inc. 302,900, renewed May 2, 1953. O. G. May 5.
Perfumes and toilet waters. Parfums Schiaparelli, Inc. 394,968, May 5, 1942. Republished May 5.
Perfumes, face powders, creams for the skin, etc. J. M. Pando. 375,461, Feb. 20, 1940. Republished May 5.
Perfumes, lipsticks, rouges, etc. Parfums Schiaparelli, Inc. 395,118-19, May 12, 1942. Republished May 5.
Perfumes, toilet waters, rouges, etc. Parfums Schiaparelli, Inc. 397,463, Sept. 8, 1942. Republished May 5.
Perfumes, toilet waters, rouges, etc. Parfums Schiaparelli, Inc. 307,585, Sept. 8, 1942. Republished May 5.
Perfumes, toilet waters, rouge, etc. Schiaparelli, Societe Anonyme. 344,590, Mar. 30, 1937. Republished May 5.
Perfumes, toilet, waters, rouge, lipsticks, etc. Société des Parfums Schiaparelli (Société Anonyme). 364,491. Jan. 31, 1939. Republished May 5.

CLASS 52

Chemical preparation. J. W. Jones. 290,856, Aug. 23, 1932. Republished May 5.
Cleaner, Brush. The Cleveland Cleaner and Paste Co. 304,447, renewed July 11, 1953. O. G. May 5.
Cleaner, cleanser, and detergent, Sudsing. The Procter & Gamble Company. 573,923, May 5; Serial No. 567,430, published Feb. 10, 1953.
Cleaner, Liquid. The Joyner Corporation. 573,972, May 5; Serial No. 617,445, published Feb. 10, 1953.
Cleanser and shampoo, Liquid hair and scalp. N. Silverstein. 299,211, renewed Nov. 22, 1952. O. G. May 5.
Compound for cleaning wall paper, frescos, calcimine, etc. The Cleveland Cleaner and Paste Co. 304,450, renewed July 11, 1953. O. G. May 5.
Detergent. American Hospital Supply Corporation. 574,067, May 5; Serial No. 632,283, published Feb. 10, 1953.
Soap. The Selig Company, Inc. 574,018, May 5; Serial No. 626,346, published Feb. 10, 1953.
Soaps and shampoos. Galen Laboratories. 574,015, May 5; Serial No. 620,239, published Feb. 17, 1953.

CLASS 101

Economic and market research or surveys. Koppers Company, Inc. 574,102, May 5; Serial No. 623,715, published Feb. 10, 1953.
Marketing research. A. C. Nielsen Company. 574,103, May 5; Serial No. 632,094, published Feb. 10, 1953.

CLASS 102

Real estate monetary appraisal service. E. F. Spradling. 574,101, May 5; Serial No. 620,441, published Feb. 10, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aircall, Inc., assignee: *See*—
Florac, Richard R.

Flateboe, Einar I., assignor to Sumner Iron Works, Everett, Wash. Rechipper with vibrating trough. Re. 23,650, May 5.

Florac, Richard R., assignor, by mesne assignments, to Aircall, Inc., New York, N. Y. Radio receiver. Re. 23,651, May 5.

Kolbus, Karl, Milwaukee, Wis., assignor to The Seneca Manufacturing Company, Cleveland, Ohio. Door check. Re. 23,652, May 5.

Seneca Manufacturing Company, The, assignee: *See*—
Kolbus, Karl.

Stern, Kurt G., New York, N. Y. Electrophoretic liquid analysis apparatus having a diaphragm and cylindrical lens in the optic path. Re. 23,653, May 5.

Sumner Iron Works, assignee: *See*—
Flateboe, Einar I.

LIST OF PLANT PATENTEES

Brownell, Josephine D., Little Compton, R. I. Rose plant. 1,182, May 5.

Emlong Nurseries, Inc., assignee: *See*—
Keplinger, Frank J.

Keplinger, Frank J., Farwell, assignor to Emlong Nurseries, Inc., Stevensville, and C. A. Stahelin, Bridgman, Mich. Strawberry plant. 1,183, May 5.

Stahelin, Carl A., assignee: *See*—
Keplinger, Frank J.

LIST OF DESIGN PATENTEES

American Seating Company, assignee: *See*—
Brulin, Laurence W., and Covey.

Anderson, Kador G., Chicago, Ill. Air and rain diverter. 169,469, May 5.

Beach, Robert W.: *See*—
Henke, Jane B., and Beach.

Bimrose, Thomas H., Beverly Hills, Calif. Combined hair curler and comb. 169,470, May 5.

Bloch, Jack, assignor to Foster Grant Co., Inc., Leominster, Mass. Front for sunglass frames or the like. 169,471, May 5.

Bruce, John K., South Pasadena, and T. H. Davis, Alhambra, Calif. Combined carrier package and cans. 169,472, May 5.

Brulin, Laurence W., New York, N. Y., and L. F. Covey, Darien, Conn., assignors to American Seating Company, Grand Rapids, Mich. Aisle standard for reclining chairs. 169,473, May 5.

Campbell, A. S., Company, assignee: *See*—
McLeod, Charles A.

Carroll Hosiery Corporation, assignee: *See*—
Frye, Lonnie E.

Coogan, Henry P.: *See*—
La Bue, Seraphina C., and Coogan.
La Bue, Seraphine C., and Coogan.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Covey, Laird F.: *See*—
Brulin, Laurence W., and Covey.

Dapol Plastics, Inc., assignee: *See*—
Goldrosen, David.

Davis, Thomas H.: *See*—
Bruce, John K., and Davis.

Deroubaix, Lucien, Paris, France, assignor to Edgar C. Hyman Co. Inc., New York, N. Y. Scarf. 169,474, May 5.

Eastern Plastics, Inc., assignee: *See*—
Whiting, Dorothy E.

Evans Case Co., assignee: *See*—
Herdecker, Carl F.

Foster Grant Co., Inc., assignee: *See*—
Bloch, Jack.

Frye, Lonnie E., Hillsville, Va., assignor to Carroll Hosiery Corporation, New York, N. Y. Stocking. 169,475, May 5.

General Electric Company, assignee: *See*—
McFarland, Donald L.

Gerlich, Mac, Brooklyn, N. Y. Spectacle frame. 169,476, May 5.

Gilbert, Benjamin D., Stamford, Conn. Muddler. 169,477, May 5.

Goldrosen, David, assignor to Dapol Plastics, Inc., Worcester, Mass. Plate or similar article. 169,478, May 5.

Gulick, Harold M., Miami, and C. E. Stedman, Coral Gables, assignors to Industrial Research, Inc., Miami, Fla. Catalyst battery cap. 169,479, May 5.

Hardt, Raymond J.: *See*—
Helfenbein, Anne, and Hardt.

Helfenbein, Anne, and R. J. Hardt, assignors to Plastic Metal Mfg. Co., Chicago, Ill. Shelf. 169,480, May 5.

Helfenbein, Anne, and R. J. Hardt, assignors to Plastic Mfg. C., Chicago, Ill. Shelf. 169,481, May 5.

Henke, Jane B., near Seattle, and R. W. Beach, Seattle, Wash., said Beach assignor to said Henke. Display unit of interfitted toy blocks. 169,482, May 5.

Herdecker, Carl F., assignor to Evans Case Co., North Attleboro, Mass. Cigarette holder. 169,483, May 5.

Herdecker, Carl F., assignor to Evans Case Co., North Attleboro, Mass. Ash tray. 169,484, May 5.

Higgins, Joseph C., Chicago, Ill. Chair. 169,485, May 5.

Hoeflich, Victor T., Forest Hills, N. Y. Hat. 169,486, May 5.

Horvath, Anthony G., and W. H. Kuner, Dayton, and R. L. Wolfe, Springfield, assignors to The Master Electric Company, Dayton, Ohio. Gearhead motor. 169,487, May 5.

Horvath, Anthony G., and W. H. Kuner, Dayton, and R. L. Wolfe, Springfield, assignors to The Master Electric Company, Dayton, Ohio. Gearhead motor. 169,488, May 5.

Horvath, Anthony G., and W. H. Kuner, Dayton, and R. L. Wolfe, Springfield, assignors to The Master Electric Company, Dayton, Ohio. Right angled gearhead motor. 169,489, May 5.

Hug, Christian J., Highland, Ill. Combined bottle opener and screw driver. 169,490, May 5.

Hyman, Edgar C., Co. Inc., assignee: *See*—
Deroubaix, Lucien.

Industrial Research, Inc., assignee: *See*—
Gulick, Harold M., and Stedman.

Isham, Thad D., Owosso, Mich. Physiotherapeutic device for the hands, arms, and the like. 169,491, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,492, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,493, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,494, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,495, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,496, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,497, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,498, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,499, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,500, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,501, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,502, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,503, May 5.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,504, May 5.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,505, May 5.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,506, May 5.
Klatt, Arthur E., Los Angeles, Calif. Ash tray. 169,507, May 5.
Kuhn, Anton J., assignor to Peerless Steel Equipment Company, Philadelphia, Pa. Handle for a filing cabinet. 169,508, May 5.
Kuner, William H.: *See*—
Horvath, Anthony G., Kuner, and Wolfe.
La Barre, Ernoll W., Lombard, Ill., assignor to W. L. Stensgaard and Associates, Inc. Display rack. 169,509, May 5.
La Bue, Seraphina C., Bronx, N. Y., and H. P. Coogan, Fairfield, assignors to The Warner Brothers Company, Bridgeport, Conn. Combination girdle and brassière. 169,511, May 5.
La Bue, Seraphine C., Bronx, N. Y., and H. P. Coogan, Fairfield, assignors to The Warner Brothers Company, Bridgeport, Conn. Combination girdle and brassière. 169,510, May 5.
Liffmann, Max, Providence, and N. Turilli, Cranston, R. I. Combination clock, radio, and piano casing. 169,512, May 5.
Master Electric Company, The, assignee: *See*—
Horvath, Anthony G., Kuner, and Wolfe.
McFarland, Donald L., Stratford, Conn., assignor to General Electric Company. Electric wall switch. 169,513, May 5.
McLeod, Charles A., Birmingham, Mich., assignor to A. S. Campbell Company, Boston, Mass. Vehicle wheel trim or similar article. 169,514, May 5.
McNair, Samuel L., assignor to Standard Products Corporation, Whitman, Mass. Electric foot vibrator for therapeutic use or similar article. 169,515, May 5.
Meierjohan, Ernest, Cincinnati, Ohio. Porch trellis or similar article. 169,516, May 5.
Murray, Irene M., Weehawken, N. J., assignor to Talon, Inc. Carrying bag. 169,517, May 5.
Peerless Steel Equipment Company, assignee: *See*—
Kuhn, Anton J.
Plastic Metal Mfg. Co., assignee: *See*—
Helfenbein, Anne, and Hardt.
Plax Corporation, assignee: *See*—
Schwarz, Donald J., and St. Clair.
Raney, Robert M., Euclid, assignor to Willard Storage Battery Company, Cleveland, Ohio. Battery handle. 169,518, May 5.
Robinson, William H., San Clemente, Calif. Wall planter. 169,519, May 5.
St. Clair, Melvin E.: *See*—
Schwarz, Donald J., and St. Clair.
St. Clair, Theodore A., South Euclid, Ohio. Anhydrous ammonia control or similar article. 169,522, May 5.
Schwarz, Donald J., Cincinnati, Ohio, and M. E. St. Clair, Hartford, assignors to Plax Corporation, West Hartford, Conn. Combined plastic bottle and cap therefor. 169,520, May 5.
Shwayder Brothers, assignee: *See*—
Wright, Russel.
Spooner, Daniel, Long Beach, N. Y. Combined dial and hands for a clock or similar article. 169,521, May 5.
Standard Products Corporation, assignee: *See*—
McNair, Samuel L.
Stedman, Cresswell E.: *See*—
Gulick, Harold M., and Stedman.
Stensgaard, W. L., and Associates, Inc., assignee: *See*—
La Barre, Ernoll W.
Talon, Inc., assignee: *See*—
Murray, Irene M.
Tuteur, Marianne.
Turilli, Nicholas: *See*—
Liffmann, Max, and Turilli.
Tuteur, Marianne, New York, N. Y., assignor to Talon, Inc. Convertible hat. 169,523, May 5.
Warner Brothers Company, The, assignee: *See*—
La Bue, Seraphina C., and Coogan.
La Bue, Seraphine C., and Coogan.
Weber, Fred, Teaneck, N. J. Embroidered trimming or similar article. 169,524, May 5.
Whiting, Dorothy E., assignor to Eastern Plastics, Inc., Fairfield, Conn. Holder for a hand of playing cards. 169,525, May 5.
Willard Storage Battery Company, assignee: *See*—
Raney, Robert M.
Witzgall, Dorothy M., Dalton, Mass., assignor to H. J. Witzgall. Combined salt and pepper dispenser or similar article. 169,526, May 5.
Witzgall, Herbert J., assignee: *See*—
Witzgall, Dorothy M.
Wolfe, Robert L.: *See*—
Horvath, Anthony G., Kuner, and Wolfe.
Wright, Russel, New York, N. Y., assignor to Shwayder Brothers, Ecorse, Mich. Folding tray table. 169,527, May 5.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. B. Svenska Flaktfabriken, assignee: *See*—
Allander, Claes G.
Abbott, Arthur R.: *See*—
McIlvin, Donald B., and Abbott.
Acme Steel Company, assignee: *See*—
Stanius, Godfrey.
Acton, Russel D., Chicago, Ill. Tractor power lift with rock-shaft and synchronized remote cylinder. 2,637,259, May 5.
Adamec, Gilbert: *See*—
Kelley, Walter L., and Adamec.
Adams, Carl, Sr., Birmingham, Ala. Display carton for fruits and vegetables. 2,637,481, May 5.
Adams, Gilbert T.: *See*—
Harrison, John B., and Adams.
Adkins, Earl C., assignor to The Sheffield Corporation, Dayton, Ohio. Pneumatic gauging device. 2,637,200, May 5.
Affel, Herman A., Jr., Philadelphia, and R. A. Dibos, Glenside, assignors to Philco Corporation, Philadelphia, Pa. Polarizing antenna for cylindrical waves. 2,637,847, May 5.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Hodge, John E.
Krewson, Charles F.
Wolf, Michael J., and Fitton.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Meyerhans, August, and Hartmann.
Albert, Willard S.: *See*—
Boyer, John L., and Albert.
Albright, Franklin C., assignor to Bendix Aviation Corporation, South Bend, Ind. Aircraft undercarriage. 2,637,512, May 5.
Alderman, Dale, Birmingham, Mich. Grinding wheel dressing device. 2,637,312, May 5.
Alexander, Donald F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Modulating refrigerating apparatus. 2,637,175, May 5.
All American Engineering Company, assignee: *See*—
Cotton, Robert B.
Allander, Claes G., Lidingo, assignor to A. B. Svenska Flaktfabriken, Stockholm, Sweden. Apparatus for comparative indication of the moisture contents in two gaseous mediums. 2,637,199, May 5.
Allied Chemical & Dye Corporation, assignee: *See*—
Miller, Charles B.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Altorfer, Hans A.
Bond, Fred C.
Alspaugh, James S., Portsmouth, Ohio. Transmission. 2,637,220, May 5.
Altgelt, Rudolph J., South Bend, Ind., assignor to Dearborn Motors Corporation, Highland Park, Mich. Clamping device for adjustably securing tool standards to plow beams. 2,637,262, May 5.
Altorfer, Hans A., Walnut Creek, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gas turbine locomotive. 2,637,277, May 5.
American Cyanamid Company, assignee: *See*—
Cresswell, Arthur.
Herbert, Arthur D.
Suen, Tzeng J., and Schiller.
Thurston, Jack T.
Vaughan, James R., Jr.
American Enka Corporation, assignee: *See*—
Heijnis, James W. I.
American Linen Supply Co., assignee: *See*—
Birr, Rudolph G.
American Machine & Foundry Company, assignee: *See*—
Moore, Thomas W.
American Optical Company, assignee: *See*—
Osterberg, Harold, Muller, and Luneburg.
American Seating Company, assignee: *See*—
Barecki, Chester J.
Henriksen, Bror W., and Nordmark.
American Steel Foundries, assignee: *See*—
Leisk, Roland T.
American Tool Works Company, The, assignee: *See*—
Hoelscher, William G.
Ammco Tools, Inc., assignee: *See*—
Mitchell, Wallace F.
Anderau, Walter, assignor to Ciba Limited, Basel, Switzerland. Disazo dyestuffs containing copper. 2,637,723. May 5.
Anderson, Leslie J., Moorestown, and M. E. Hawley, Collingwood, N. J., assignors to Radio Corporation of America. Thermomagnetic transducer. 2,637,823, May 5.
Anderson, William F., Wilmington, Calif. Sewer cleanout implement. 2,637,058, May 5.
Andrew Corporation, assignee: *See*—
Scheldorf, Marvel W.
Andrews, Boley A.: *See*—
Sabin, Eugene R., Andrews, and Shontz.
Andrews, John R., Jr., assignor to Bachmann Uxbridge Worsted Co., Inc., Uxbridge, Mass. Apparatus for splitting warp sheets and the like. 2,637,094, May 5.
Andrews, Joseph B., Jr., Cincinnati, Ohio. Well drilling device. 2,637,527, May 5.
Andrews, Norman F., Ankeny, Iowa, assignor to Deere & Company, Moline, Ill. Harvester gatherer belt. 2,637,436, May 5.
Andrus, Budd W., Eugene, assignor to Monarch Forge & Machine Works, Portland, Oreg. Power transmission unit for sawmill carriages and the like. 2,637,428, May 5.
Angelo, Nicholas C., Waco, Tex. Child's portable chair. 2,637,372, May 5.
Appert, Kurt E.: *See*—
Erickson, Lennart G., and Appert.
Arma Corporation, assignee: *See*—
Cunningham, Frederick W.
Armour and Company, assignee: *See*—
Sifford, Robert H.
Armstrong, Zenas A.: *See*—
Woodside, Charles E., Smith, Woodside, and Armstrong.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Bleier, Stanley.
Bruce, John N.
Davis, Howard, Kass, Kelliher, and Pick.
Tschinkel, Johann G.
Arnold, George B., Glenham, H. V. Hess and W. E. Skelton, Beacon, assignors to The Texas Company, New York, N. Y. Fractional separation of wax from a hydrocarbon mixture using an organic complexing agent and a solvent. 2,637,681, May 5.
Arnold, Michael H. M., assignor to Postans Limited, Birmingham, England. Obtaining the dispersion of a finely divided solid material in a liquid. 2,637,534, May 5.
Arnold, Michael H. M., assignor to Postans Limited, Birmingham, England. Manufacturing paints and colored plastics. 2,637,535, May 5.
Aricraft Manufacturing Co., assignee: *See*—
Willetts, John R.
Art-Rich Manufacturing Company, assignee: *See*—
Grant, Oscar, Jr., and Jackson.
Ashlock, George W., Jr., Oakland, Calif. Stuffing olives. 2,637,653, May 5.
Ashworth, Walder B., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Spiral drive. 2,637,366, May 5.
Aston, John G., State College, Pa., and R. E. Black, Stouz City, Iowa, assignors to Phillips Petroleum Company. Purification of cyclohexane. 2,637,749, May 5.
Atchison, Leonard W., Erie, Pa., assignor to General Electric Company. Electrical defrosting arrangement for refrigerators. 2,637,180, May 5.
Atkins, Earle R., Jr., La Habra, assignor to Union Oil Company of California, Los Angeles, Calif. Flowmeter. 2,637,206, May 5.
Atkinson, Wallace E., assignor to Long Manufacturing Company, Inc., Petersburg, Va. Lock hasp. 2,637,584, May 5.
Atlanta Paper Company, assignee: *See*—
Forrer, Homer W.
Atlas Powder Company, assignee: *See*—
Ashworth, Walder B.
Auer, Laszlo, South Orange, N. J. Textile decorating pigment color composition containing a phenol-epihalohydrin condensation product. 2,637,621, May 5.
Auer, Laszlo, South Orange, N. J. Oil-in-water emulsion textile printing extender pastes. 2,637,705, May 5.
Auer, Laszlo, South Orange, N. J. Pigment dispersions in water. 2,637,711, May 5.
Austin, Walter P., assignor of one-half to R. T. Patterson, Nashville, Tenn. Nonreciprocating refrigeration unit. 2,637,174, May 5.
Autogiro Company of America, assignee: *See*—
Stanley, Paul H.

Auto Specialties Manufacturing Co., assignee: *See*—
Lucker, Millard B.

Avenell, Archibald A.: *See*—
Stokes, Phillip H., Avenell, and Mitchell.

Avins, Jack, Staten Island, N. Y., assignor to Radio Corporation of America. Keyed noise-clipping circuit. 2,637,774, May 5.

B-W Manufacturers, Inc., assignee: *See*—
Spangler, Walter L.

Babcock & Wilcox Company, The, assignee: *See*—
Gilg, Frank X., and Singleton.
Marquez, Charles L., Jr., and Kazmierski.

Bachmann, Camilla, née Klee, Hamburg-Blankenfeld, Germany. Flexible stiffening element for body-supporting garments. 2,637,041, May 5.

Bachmann Uxbridge Worsted Co., Inc., assignee: *See*—
Andrews, John R., Jr.

Backus, Thomas, and E. L. Ludvigsen, Kalamazoo, Mich., assignors to Fuller Manufacturing Company. Change-speed gearing. 2,637,221, May 5.

Backus, Thomas, assignor to Fuller Manufacturing Company, Kalamazoo, Mich. Shift control for auxiliary transmissions. 2,637,222, May 5.

Badger Manufacturing Company, assignee: *See*—
Buffum, Albert C.

Baer, Julius, Beverly Hills, Calif. Pocketed heel and detachable arch support. 2,637,122, May 5.

Baggett, John L., and M. W. Duke, Cumberland, Md., assignors to Celanese Corporation of America. Yarn lubricant. 2,637,693, May 5.

Bailey Meter Company, assignee: *See*—
Shannon, Jack F.

Bain, Walter M., Oak Park, Ill., assignor to The Glidden Company, Cleveland, Ohio. Preparing laminated bodies of cellulosic materials and product. 2,637,675, May 5.

Baker, Augustus L., Wrentham, Mass. Fan type heat exchanger. 2,637,532, May 5.

Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C., and Conrad.

Baker, Reuben C., Coalinga, and M. B. Conrad, Huntington Park, assignors to Baker Oil Tools, Inc., Vernon, Calif. Pressure operated well apparatus. 2,637,402, May 5.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Thomas, Harry A.

Balmer, Donald F., East River, Madison, assignor to The Soundscriber Corporation, New Haven, Conn. Step-back mechanism for dictating machine playback arms. 2,637,562, May 5.

Bamford, Arthur P., East Orange, N. J., assignor to The Sperry Corporation, Long Island City, N. Y. Intaglio printing press. 2,637,270, May 5.

Banks, Millard S., New York, N. Y. Soap package. 2,637,439, May 5.

Bareckl, Chester J., assignor to American Seating Company, Grand Rapids, Mich. Writing shelf for chairs. 2,637,367, May 5.

Barium Development Corporation, assignee: *See*—
Herbert, Arthur C.

Barnard, Randolph H., Waterville, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio. Nonwoven film coated fabric. 2,637,673, May 5.

Barradell-Smith, Richard: *See*—
Davison, Richard, and Barradell-Smith.

Barradell-Smith, Richard, and R. Davison, St. Helens, assignors to Pilkington Brothers Limited, Liverpool, Lancaster County, England. Apparatus for transmitting and amplifying motion of a known frequency of oscillation and suppressing superimposed motions of other frequencies of oscillation. 2,637,167, May 5.

Barrett, Arthur L., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Material receiving, storing, and discharging apparatus. 2,637,457, May 5.

Barrett, Edwin W.: *See*—
Gardner, Roland M., Gartner, and Barrett.

Bart, Siegfried G., Essex Fells, N. J. Rubber-backed propeller. 2,637,404, May 5.

Bartlett, Jeffrey H., Westfield, N. J., assignor to Standard Oil Development Company. Lubricating oil additive. 2,637,697, May 5.

Bartner, Elliot: *See*—
Gaunt, William E., Bartner, and Schaeffer.

Barusch, Maurice R.: *See*—
McLaughlin, Edward J., Denison, and Barusch.

Basdekis, Costas H., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Preparing blended polymers. 2,637,717, May 5.

Bates, Lenore C., assignee: *See*—
French, Charles A.

Battaglia, Eugene D., Bronx, N. Y. Antibacklash attachment for fishing reels. 2,637,508, May 5.

Battelle Development Corporation, The, assignee: *See*—
Copley, Harold E.

Baunach, Roy J., Toledo, Ohio. Corn popping machine. 2,637,656, May 5.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Furniture glider. 2,637,063, May 5.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Closure member. 2,637,462, May 5.

Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Automatic gain control system. 2,637,773, May 5.

Beech Aircraft Corporation, assignee: *See*—
Howard, Roscoe D., and Samuelson.

Been, Jerome, and M. M. Grover, Rutherford, assignors to Rubber and Asbestos Corporation, Bloomfield, N. J. Chlorinating natural rubber. 2,637,753, May 5.

Behr, Siegfried, Flushing, N. Y. Hair holder. 2,637,328, May 5.

Bell, Elva L., Spokane, Wash. Window pane securing strip. 2,637,422, May 5.

Bell, Ernest P.: *See*—
Tischler, Nathaniel, and Bell.

Belshaw, Thomas E., and W. R., Seattle, Wash. Dough former. 2,637,282, May 5.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Edson, Robert C.

Belshaw, Walter R.: *See*—
Belshaw, Thomas E., and W. R.

Benbow, Burtis W., Benbow, Calif. Portable hand drill. 2,637,225, May 5.

Bendix Aviation Corporation, assignee: *See*—
Albright, Franklin C.
Cintrol, Juan E.
Colt, Rutger B.
House, Bryan E.

Bendlix Aviation Corporation, assignee: *See*—
Long, Richard H., and Prather.
Price, Earl R.
Stockinger, Paul P.

Benedict, Louis K., East Palatka, Fla. Drain for sewage disposal systems. 2,637,170, May 5.

Benignus, Paul G., Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo. Fungicidal composition and using same. 2,637,661, May 5.

Benrus Watch Company, Inc., assignee: *See*—
Kupchick, Edward.

Bent, Arthur J., Penn Township, Pa., assignor to Westinghouse Air Brake Company. Pressure control valve device. 2,637,340, May 5.

Berg, Paul, Fort Wayne, Ind. Card dispensing device. 2,637,609, May 5.

Berger, Hans: *See*—
Gund, Konrad, Berger, Scheer, and Schittenhelm.

Bergstedt, Milton A., Linden, and R. H. Lamason, Round Brook, N. J., assignors to Industrial Tape Corporation. Adhesives comprising phenol-formaldehyde resins, certain polyvinyl acetal resins, and ricinoleate esters. 2,637,706, May 5.

Berles Carton Company, Inc., assignee: *See*—
Broderick, Frank W.

Berry, Verne H.: *See*—
Briscoe, William F. R., and Berry.

Best, Charles D., Fresno, Calif. Safety latch. 2,637,579, May 5.

Betz, Charley W., Collinsville, Ala. Reversible plow. 2,637,257, May 5.

Bigley, Miles G., assignor to Koppers Company, Inc., Pittsburgh, Pa. Coating. 2,637,660, May 5.

Binder, William O., Niagara Falls, N. Y., assignor to Union Carbide and Carbon Corporation. Preparing steels and alloys for rolling. 2,637,667, May 5.

Bingham-Herbrand Corporation, The, assignee: *See*—
Hinsey, Robert S.

Birr, Rudolph G., Lombard, assignor to American Linen Supply Co., Chicago, Ill. Supply roll mounting means for dispensing cabinet. 2,637,503, May 5.

Bitzer, Gottlieb, Lincoln Park, H. C. Pingel, Wyomissing, and C. R. Fegley, Laureldale, assignors to Textile Machine Works, Wyomissing, Pa. Carrier rod driving mechanism for knitting machines. 2,637,183, May 5.

Black, Averno T., Deseret, Utah. Water gate. 2,637,171, May 5.

Black, Rodney E.: *See*—
Aston, John G., and Black.

Bleier, Stanley, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of the Army. Inertia switch. 2,637,791, May 5.

Blessing, Charles B., Oakland, Calif., assignor to Blessing Packaging Company. Tension control reel. 2,637,504, May 5.

Blessing Packaging Company, assignee: *See*—
Blessing, Charles B.

Blokolgas System, Inc., assignee: *See*—
Fitzpatrick, Stephen L.

Bockelman, Bert M., Clarkaville, Ohio. Latch for the slidable members of jaw wrenches. 2,637,234, May 5.

Bodenhafer, Clifford R.: *See*—
Kendall, Thomas L., Bodenhafer, and Plummer.

Boeing Airplane Company, assignee: *See*—
Wallen, Jarvis A.

Bohnert, John I., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Series reactance transformer. 2,637,781, May 5.

Boice-Crane Company, assignee: *See*—
Boice, William B.

Boice, William B., assignor to Boice-Crane Company, Toledo, Ohio. Work rest and wheel mount. 2,637,131, May 5.

Bolte, Frank B., Los Angeles, Calif., assignor to North American Aviation, Inc. Reinforced canopy structure. 2,637,076, May 5.

Bond, Fred C., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pocketed hammer rotor for pulverizing machines. 2,637,502, May 5.

Boon, William R., N. Greenhalgh, E. London, and C. H. Vasey, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of 4,6-diketo hexahydropyrimidines. 2,637,730, May 5.

Booth, James H., Corunna, and A. W. Gair, Fraser, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Steering knuckle. 2,637,568, May 5.

Borax Consolidated, Limited, assignee: *See*—
Taylor, Donald S.

Borde, Josef, Zurich, Switzerland. Burner structure. 2,637,378, May 5.

Borden, Joseph H., assignor to Haughton Elevator Company, Toledo, Ohio. Elevator door operating mechanism. 2,637,549, May 5.

Bordewieck, Robert W., Southborn, assignor to Moore Electronic Laboratories, Incorporated, Worcester, Mass. Bridge amplifier circuit. 2,637,786, May 5.

Borg-Warner Corporation, assignee: *See*—
Chapin, William R.

Borst, Douglas R., Pitcairn, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure control valve device. 2,637,341, May 5.

Boutin, Harold S., Toledo, Ohio. Chair having resilient frame. 2,637,371, May 5.

Boutros, Richard D., J. V. Donohoe, and M. Dykman, Brighton, assignors to Mixing Equipment Co., Inc., Rochester, N. Y. Mixing apparatus. 2,637,338, May 5.

Bower, Ralph H., Goshen, Ind. Face mask. 2,637,038, May 5.

Bowman, William A., Baltimore, Md. Jackknife window. 2,637,381, May 5.

Bowman, William A., Baltimore, Md. Automatically operated jackknife window. 2,637,383, May 5.

Boyer, John L., Pittsburgh, and W. S. Albert, Pitcairn, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Alkali-metal rectifier. 2,637,827, May 5.

Boyle, James M.: *See*—
Kirshenbaum, Abraham D., and Boyle.

Bracken, Clement H., Pacoima, Calif. Time-delay attachment for wall switches. 2,637,788, May 5.

Braden, Rene A., Hopewell, N. J., assignor to Radio Corporation of America. Balanced microwave detector. 2,637,813, May 5.

Bradshaw, Leonard C., assignor to International Bitumen Emulsions Limited, Slough, England. Fiberboard containing bitumen modified fatty acid pitch. 2,637,630, May 5.

Bragg, Charles E., assignor to Standard Oil Company, Chicago, Ill. Method of and apparatus for measuring conductivity of liquids. 2,637,768, May 5.

Brakeley, Paul W., Jr.: *See*—
Schneider, Helmuth G., and Brakeley.

Brand, Samuel: *See*—
Watson, Thomas J., and Brand.

Brensike, Harold R.: *See*—
Brensike, Walter L., and H. R.

Brensike, Walter L., Appleton, and H. R. Brensike, New London, Wis. Ladder bracket. 2,637,517, May 5.

Brinson, R. L., Company, assignee: *See*—
Fulton, Joel B.

Briscoe, William F. R., and V. H. Berry, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Stone-ejecting tire tread. 2,637,362, May 5.

Britt, Robert J.: *See*—
Seaver, Fred H., and Britt.

Brock, Charles F., assignee: *See*—
Lowther, Mary T., and McKinstry.

Broderick, Frank W., Summit, N. J., assignor to Berles Carton Company, Inc. One-piece covered container. 2,637,482, May 5.

Brogdex Company, assignee: *See*—
Tucker, Frank P.

Brooks, Frazier O., Ca-Vel, N. C. Punch for rimless cans. 2,637,100, May 5.

Brooks, Lester A., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Adhesive compositions from mixtures of chlorinated and hypochlorinated rubber. 2,637,751, May 5.

Broschke, Heinrich, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Microhardness tester. 2,637,202, May 5.

Brown, Charles R., Glen Mills, and W. H. Leedecke, Yeadon, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Jet engine variable area exhaust nozzle. 2,637,163, May 5.

Brown, Hugh H.: *See*—
Phillips, Vernon J., and Brown.

Brown, Keith E., San Gabriel, and F. E. Clark and C. E. Jackson, Alhambra, assignors to Turco Products, Inc., Los Angeles, Calif. Stripping of mirror backing. 2,637,669, May 5.

Brown, Keith E., San Gabriel, and F. E. Clark and C. E. Jackson, Alhambra, assignors to Turco Products, Inc., Los Angeles, Calif. Stripping of mirror backing. 2,637,670, May 5.

Brown, Luther E., Greggton, and O. W. Williams, Houston, Tex. Well tester. 2,637,400, May 5.

Brown, Theophilus and G. Ickes, assignors to Deere & Company, Moline, Ill. Adjustable wheel and axle assembly for variable tread vehicles. 2,637,598, May 5.

Browneye, Martin: *See*—
Helms, Laurence C., T. R. Helms, and Browneye.

Browning, George, Wilmette, assignor to Sunbeam Corporation, Chicago, Ill. Retractable flatiron supporting mechanism. 2,637,127, May 5.

Bruce, John N., Edgewood, Md., assignor to the United States of America as represented by the Secretary of the Army. Self-sealing coupling. 2,637,572, May 5.

Bruene, Alfred J., Chicago, Ill. Exerciser. 2,637,319, May 5.

Bruynzeel's Deurenfabriek N. V. of Pieter Ghijseniaan, assignee: *See*—
Staartjes, Johannes.

Bubb, Frank W., Webster Groves, Mo., assignor to Phillips Petroleum Company. Computing device for vapor-liquid equilibrium calculations. 2,637,495, May 5.

Budd Company, The, assignee: *See*—
Dean, Albert G.
Kessler, Edwin L.

Budlane, Stanley J., Chicago, Ill., assignor to Motorola, Inc. Liquid fuel burning heater and operating system therefor. 2,637,377, May 5.

Buffum, Albert C., Winchester, assignor, by mesne assignments, to Badger Manufacturing Company, Cambridge, Mass. Heat exchanger for internal-combustion engines. 2,637,305, May 5.

Buffum, Albert C., Winchester, assignor, by mesne assignments, to Badger Manufacturing Company, Cambridge, Mass. Engine-driven vapor compression distillation. 2,637,684, May 5.

Burdick, Edwin C., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air actuated power cylinder control with rate response. 2,637,301, May 5.

Burge, James S., F. J. Foust, W. C. Shaw, and W. M. Ilder, Anderson, and H. J. McKee, Middletown, Ind., assignors to General Motors Corporation, Detroit, Mich. Apparatus for welding a terminal clip to a wire. 2,637,798, May 5.

Burgess Battery Company, assignee: *See*—
Coleman, Joseph J., and Wilke.
Wilke, Milton E.

Burk, Harold L.: *See*—
Burk, William R., and H. L.

Burk, William R., and H. L., Canton, Mo. Automobile theft prevention device. 2,637,407, May 5.

Burke, Joan, East Cleveland, Ohio. Dustless ash scoop. 2,637,588, May 5.

Burke, Ralph L., assignee: *See*—
Wasley, Roy E.

Burkhardt, Otto M., Euclid, Ohio. Cooking utensil. 2,637,463, May 5.

Burnell, Robert H., Washington, D. C. Burglar trap. 2,637,284, May 5.

Burroughs Adding Machine Company, assignee: *See*—
Fettig, Arthur J.

Burwell, Albert L., Norman, Okla., assignor to University of Oklahoma Research Institute. Converting volcanic ash to cellular particles. 2,637,702, May 5.

Butler, Ernest L., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Pulling-over machine. 2,637,053, May 5.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Collapsible carton. 2,637,484, May 5.

C. D. Patents Limited, assignee: *See*—
Greaves, Charles D., and Parker.

California Research Corporation, assignee: *See*—
McLaughlin, Edward J., Denison, and Barusch.

Campagna, Anthony J., Pontiac, Ill. Collapsible tube holder with tube collapsing means and brush supports. 2,637,467, May 5.

Campbell, John F., Euclid, assignor to The Weatherhead Company, Cleveland, Ohio. Automatic fuel control for gas turbine engines. 2,637,374, May 5.

Campbell, Susie: *See*—
Reynolds, Roy L., and Campbell.

Carborundum Company, The, assignee: *See*—
Nicholson, Kenneth C.

Carroll, James M., Philadelphia, and T. W. Murphy, Narberth, assignors to The Monarch Manufacturing Works, Inc., Philadelphia, Pa. Gun type oil burner with combustion head structure. 2,637,379, May 5.

Carswell, James M., Toronto, Ontario, Canada. Pure reaction turbine with evacuated chamber and rotor element therefor. 2,637,160, May 5.

Cartlidge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Muck stripper for endless track treads. 2,637,603, May 5.

Caulkins, Eugene, assignee: *See*—
Davidson, Abraham G.

Celanese Corporation of America, assignee: *See*—
Baggett, John L., and Duke.

Cerioni, Giuseppe R., assignor to El-CU-S. P. AZ. Elettro Cucitrice Industriale Portatile, Milan, Italy. Hand bag-sewing machine. 2,637,288, May 5.

Chance, A. B., Company, assignee: *See*—
Hubbard, David C.

Chapin, William R., Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Hack saw blade. 2,637,355, May 5.

Charlin, André M. B., Montrouge, France, assignor to Products and Licensing Corporation, New York, N. Y. Magnetic sound-recording apparatus. 2,637,785, May 5.

Charlton, Edward J., Coatesville, and L. W. Edwards, Lancaster, assignors to Lukens Steel Company, Coatesville, Pa. Welded railway car truck frame. 2,637,279, May 5.

Chemstrand Corporation, The, assignee: *See*—
Basdekis, Costas H.
Gluesenkamp, Earl W., and Ham.
Ham, George E.

Chicago Nipple Manufacturing Company, assignee: *See*—
Marsden, George B.

Chirgwin, Martin R., assignee: *See*—
Wasley, Roy E.

Christensen Machine Company, The, assignee: *See*—
Watson, George F.

Chu, Ting Y.: *See*—
Spangler, Merlin G., and Chu.

Churchill, Harold E., assignor to The Studebaker Corporation, South Bend, Ind. Split flexible brake band 2,637,420, May 5.

Ciba Limited, assignee: *See*—
Anderau, Walter.
Ott, Gustav H.
Schmid, Max., and Moser.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Wettstein, Albert, and Meystre.

Cintron, Juan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Hydraulic actuated valve. 2,637,303, May 5.

Cissell, W. M., Mfg. Company, Incorporated, assignee: *See*—
Richterkessing, Frank H.

Clark, Edward G., Silver Spring, Md. Holddown clamp. 2,637,226, May 5.

Clark, Francis E.: *See*—
Brown, Keith E., Clark, and Jackson.

Clark Manufacturing Company, The, assignee: *See*—
Goff, William S.

Clary, George H., Belle Fourche, S. Dak., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Bag closing apparatus. 2,637,153, May 5.

Clay, James A., Jr., Fort Worth, Tex. Mechanical apparatus to inject fluids into wells in batches. 2,637,469, May 5.

Clay, Murray G., Chicago, Ill. Apparatus for producing healthful sleep. 2,637,322, May 5.

Cleland, James E., and J. R. Longnecker, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind. Isolating caramel coloring compounds. 2,637,655, May 5.

Cleveland, Henry D., New York, N. Y. Apparatus for loading truck trailers on ships. 2,637,453, May 5.

Clopay Corporation, The, assignee: *See*—
Hyde, Robert W.

Clyne, Joseph N., assignor, by mesne assignments, to Grinding and Polishing Machinery Corporation, Indianapolis, Ind. Buffing machine. 2,637,147, May 5.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Method of and apparatus for hydraulic pumping. 2,637,276, May 5.

Cochrane, Arthur L., Powell River, British Columbia, Canada. Bearing sealing assembly. 2,637,573, May 5.

Cochrane, Richard M.: *See*—
Tapp, Harry F., and Cochrane.

Cockrell, Charles C., assignee: *See*—
Swisher, Robert E.

Coleman Company, Inc., The, assignee: *See*—
McCutchen, John E.

Coleman, Joseph J., and M. E. Wilke, assignors to Burgess Battery Company, Freeport, Ill. Deferred action battery. 2,637,756, May 5.

Collins Radio Co., assignee: *See*—
Shanklin, John P.

Collins Radio Company, assignee: *See*—
Craiglow, Robert L.
McCreary, Ralph L.
Price, George W.

Colt, Rutger B., assignor to Bendix Aviation Corporation, Baltimore, Md. Illuminated indicating apparatus. 2,637,296, May 5.

Columbia-Southern Chemical Corporation, assignee: *See*—
Woodman, Frank W.

Compagnie Française des Matieres Colorantes S. A. R. L., assignee: *See*—
Lantz, Robert L., and Krémer.

Congdon, Ernest, Upper Darby, Pa. Tape or web reading device. 2,637,129, May 5.

Connell, Lawrence H., Detroit, Mich. Method and means of magnetic recording and reproducing sound. 2,637,561, May 5.

Conrad, Martin B.: *See*—
Baker, Reuben C., and Conrad.

Constantine, Leonard R., Greensburg, C. T. Evans, Jr., Delmont, and E. S. Dennison, Hempfield Township, Westmoreland County, assignors to Elliott Company, Jeannette, Pa. Gas turbine rotor and welding rotor disks together. 2,637,521, May 5.

Container Corporation of America, assignee: *See*—
Empkie, Frederic D., Jr.

Cooke, Robert L., assignor to C. D. J. Smith, Attleboro, Mass. Chainmaking apparatus. 2,637,159, May 5.

Cooper, Henry J., Stockport, England. Selvedge for woven fabrics. 2,637,351, May 5.

Copley, Harold E., assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Producing images on rigid surfaces. 2,637,651, May 5.

Cordrey, Richard N., and D. E. Wright, Toledo, Ohio., assignors to The National Supply Company, Pittsburgh, Pa. Brake band equalizer adjusting mechanism. 2,637,419, May 5.

Corning Glass Works, assignee: *See*—
Pond, Leander N.

Corporacion de Ventas de Salitre y Yodo de Chile, assignee: *See*—
Van Liempt, Johannes A. M.

Cossairt, Earl L.: *See*—
Swisher, Robert E.

Catton, Robert R., Lansdowne, Pa., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del. Shock absorbing means for aircraft seats. 2,637,368, May 5.

Covington, Harry, assignee: *See*—
Davidson, Abraham G.

Cowan, Morris, assignor of one-half to V. and J. Silson, copartners doing business as Victor Silson Co., New York, N. Y. Cosmetic brush. 2,637,060, May 5.

Cox, John W., assignor to Sheilmar Products Corporation, Chicago, Ill. Egg carton. 2,637,479, May 5.

Cox, Mace A., and J. L. Shively, Long Beach, Calif. Carrier bar for polish rods. 2,637,528, May 5.

Cox, Robert E.: *See*—
Silver, Walter H., and Cox.

Craiglow, Robert L., assignor to Collins Radio Company, Cedar Rapids, Iowa. Crystal filter circuit. 2,637,779, May 5.

Craiglow, Robert L., assignor to Collins Radio Company, Cedar Rapids, Iowa. Random signal generator. 2,637,845, May 5.

Creegan, Vincent T., Center Line, assignor to Gabriel Steel Company, Detroit, Mich. Glazing clip. 2,637,423, May 5.

Cresswell, Arthur, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Shaped article and producing it. 2,637,321, May 5.

Critchfield, Robert M., and J. W. Lawson, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Switch. 2,637,789, May 5.

Crom, John M., New York, N. Y. Distribution of solids in air. 2,637,539, May 5.

Crowley, Francis C.: *See*—
Reed, Robert G., and Crowley.

Culver, Harry D., Bellevue, Ky., assignor of one-third to J. C. McCarthy and one-third to G. A. Schwenzer, Cincinnati, Ohio. Clamping device. 2,637,268, May 5.

Cunningham, Frederick W., Stamford, Conn., assignor to Arma Corporation, Brooklyn, N. Y. Radio navigation apparatus. 2,637,848, May 5.

Cushman, Walton W., Webb City, Mo. Internal-combustion engine. 2,637,307, May 5.

Cushman, Walton W., Webb City, Mo. Mercury interrupter. 2,637,792, May 5.

Cutler, Bertram S., Possum Hill, assignor of one-fourth to R. L. Hubbard, Florham Park, N. J. Safety razor. 2,637,101, May 5.

Cutler-Hammer, Inc., assignee: *See*—
Schmidt, Edwin X.

Daigle, Bert J., Sulphur, assignor of one sixty-fourth to E. W. Thompson, Calcasieu Parish, La. Dental isolation tray for use with air abrasive techniques. 2,637,107, May 5.

Danske Andelsslagterliers Konservesfabrik A. m. b. A., assignee: *See*—
Petersen, Gustav.

Daughraty, Charles H., East Chelsford, Mass. Scoring gauge for bullet holes. 2,637,356, May 5.

Davidson, Abraham G., Port Angeles, Wash., assignor to H. Covington and E. Caulkins. Fish lure. 2,637,134, May 5.

Davidson, Harold B., near Louisville, Ky. Apparatus for circulating water. 2,637,531, May 5.

Davidson, James R., assignor to Taylor Instrument Companies, Rochester, N. Y. Time cycle controller. 2,637,835, May 5.

Davis, George H., Detroit, Mich. Double-walled tumbler. 2,637,182, May 5.

Davis, Howard, Long Branch, N. J., S. Kasa, Rehovot, Israel, and J. F. Kelliher, Middletown, and L. A. Pick, Little Silver, N. J., assignors to the United States of America as represented by the Secretary of the Army. Position finding of electrical disturbances. 2,637,841, May 5.

Davis, Howard L., Payette, Idaho. Carcass splitter. 2,637,354, May 5.

Davison, Richard: *See*—
Barradell-Smith, Richard, and Davison.

Davison, Richard, and R. Barradell-Smith, St. Helens, assignors to Pilkington Brothers Limited, Liverpool, Lancaster County, England. Apparatus for transmitting oscillatory motion of a known frequency and suppressing superimposed oscillatory motions of other frequencies. 2,637,168, May 5.

Dawson, William O., East Paterson, and L. Seliet, Saddle River, N. J., assignors to Jacques Wolf & Co. Formaldehyde-dicyandiamine resins and the treatment of leather therewith. 2,637,622, May 5.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Resilient mounting for a plurality of machines. 2,637,278, May 5.

Dearborn Motors Corporation, assignee: *See*—
Altgelt, Rudolph J.
Hauswirth, Vernon O.
Spedding, Raymond T.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Magnetic flowmeter. 2,637,207, May 5.

Deere & Company, assignee: *See*—
Andrews, Norman F.
Brown, Theophilus, and Ickes.
Lindeman, Jesse G.
Silver, Walter H., and Cox.

Deering Milliken Research Trust, assignee: *See*—
Janes, John R.

Demarest, Charles W., Culver City, and J. T. Willoughby, Manhattan Beach, assignors, by mesne assignments, to North American Aviation, Inc., Los Angeles, Calif. Adjustable seat. 2,637,369, May 5.

De Ment, Jack, Portland, Oreg., assignor to the United States of America as represented by the United States Atomic Energy Commission. Dispersing materials in water. 2,637,536, May 5.

De Nisco, Daniele, Brooklyn, N. Y. Musical toy. 2,637,141, May 5.

Denison, George H., Jr.: *See*—
McLaughlin, Edward J., Denison, and Barusch.

Dennison, Edward S.: *See*—
Constantine, Leonard R., Evans, and Dennison.

Dereich, John E., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Siloxane compositions and making same. 2,637,719, May 5.

De Vecchis, Ineo, Paris, France, and O. E. Ramuz, Lausanne, Switzerland, assignor of one-fourth to G. H. Montmartin, New York, N. Y. Treatment of bauxites. 2,637,628, May 5.

Diamond Alkali Company, assignee: *See*—
Dereich, John E.

Dibos, Richard A.: *See*—
Affel, Herman A., Jr., and Dibos.

Dickhart, Dewey B.: *See*—
Fox, Gerald B., and Dickhart.

Dictaphone Corporation, assignee: *See*—
Rescanski, Joseph A., and Hopkins.

Diehl, Karl L., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Fluid seal. 2,637,574, May 5.

Dinerstein, Robert A., Park Forest, assignor to Standard Oil Company, Chicago, Ill. Aryl mercuric fungicide and using the same. 2,637,677, May 5.

Dinkelkamp, Henry T., assignor to Stewart-Warner Corporation, Chicago, Ill. Valve mechanism for reciprocating fluid motors. 2,637,304, May 5.

Di Vincenzo, Casey, East Cleveland, Ohio. Carrier bracket for trucks. 2,637,474, May 5.

Dixon, Thomas W., and L. W. Sproule, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Aromatic-free mineral oil rust inhibiting compositions. 2,637,703, May 5.

Dodge, Adiel Y., Rockford, Ill. Fan drive clutch. 2,637,308, May 5.

Dodge, Lloyd L., assignor of one-half to Highland Manufacturing Company, Highland, Ill. Impregnated paper and making same. 2,637,665, May 5.

Doebler, Paul E., Monroe, Ohio. Cover for toilet flush tanks. 2,637,360, May 5.

Doerr, Edward L., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Surface-active products. 2,637,701, May 5.

Donohoe, James Y.: *See*—
Bontros, Richard D., Donohoe, and Dykman.

Doran, Elizabeth P.: *See*—
Doran, Harold C., and E. P.

Doran, Harold C., and E. P., Oakland, Calif. Doll stage construction. 2,637,188, May 5.

Dorfan, Morton I., Pittsburgh, Pa. Pneumatic conveyer suction hood. 2,637,600, May 5.

Dormeyer Corporation, assignee: *See*—
Kessel, Johannes R.

Doty, Charles R., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Record controlled perforating machine. 2,637,399, May 5.

Douglas, Peyton W., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Laundry machine. 2,637,186, May 5.

Douglas, Peyton W., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Laundry machine. 2,637,189, May 5.

Draper Corporation, assignee: *See*—
Rogers, Leonard M.

Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.

Drummond, William: *See*—
Peters, William and Drummond.

Dubsky, Arthur, assignee: *See*—
Wiessner, Robert.

Duke, Marshall W.: *See*—
Baggett, John L., and Duke.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Hoagland, Kenneth A.
Talantul, Arthur J., Jr.

Dunham, George W., Westport, Conn. Shuttleless loom which pneumatically projects weft thread. 2,637,349, May 5.

Dura Bond Bearing Co., assignee: *See*—
Fowle, John M., and Muchmore.

Duskin, Morris L., Chicago, Ill. Clothing bag. 2,637,424, May 5.

Dykman, Milton: *See*—
Boutros, Richard D., Donohoe, and Dykman.

EL-CU-S. P. AZ. Elettro Cucitrice Industriale Portatile: *See*—
Cerioni, Giuseppe R.

Eachus, Iredell, Jr., Cynwyd, assignor to Macbeth Arc Lamp Co., Philadelphia, Pa. Electrical control system. 2,637,831, May 5.

Eastman Kodak Company, assignee: *See*—
Straley, James M.

Easy Washing Machine Corporation, assignee: *See*—
Douglas, Peyton W.

Eaton Manufacturing Company, assignee: *See*—
Winther, Martin P.

Ecco, Inc., assignee: *See*—
Pond, Cecil E.

Edelmann, E., & Co., assignee: *See*—
Reifenberg, Karl.

Edson, Robert C., Livingston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sealed wave guide window. 2,637,776, May 5.

Edwards, Lewis W. *See*—
Charlton, Edward J., and Edwards.

Efthilos, Kosmas, New Orleans, La. Method and apparatus for releasing frozen confections from molds. 2,637,668, May 5.

Elmco Corporation, The, assignee: *See*—
Schwartz, Daniel M.

Eisenberg, Irwin M., Stewartsville, Irwin, Pa., assignor to Westinghouse Air Brake Company. Locomotive brake equipment. 2,637,602, May 5.

Electronatom Corporation, assignee: *See*—
Yadoff, Oleg.

Elgin Sweeper Company, assignee: *See*—
Mott, Carl W.

Elliott Company, assignee: *See*—
Constantine, Leonard R., Evans, and Dennison.
Langworthy, Courtland H.

Ellis-Foster Company, assignee: *See*—
Rust, John B.

Elliston, Mary W., Chicago, assignor of one-half to Edith K. Weinstein, Highland Park, and one-half to Leroy A. Kling, Evanston, Ill. Fishing reel. 2,637,418, May 5.

Emerson, John H., Arlington, Mass. Apparatus for inducing artificial respiration. 2,637,318, May 5.

Emerson, William S., and R. I. Longley, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Plasticized vinyl halide. 2,637,714, May 5.

Emery, James R., Jr., Teaneck, N. J. Printing press. 2,637,336, May 5.

Emmert, Lorenzo S., Elkhart, Ind. Construction unit. 2,637,265, May 5.

Empkie, Frederic D., Jr., Sioux City, Iowa, assignor to Container Corporation of America, Chicago, Ill. Can carrier. 2,637,476, May 5.

Erickson, Edwin H., assignee: *See*—
Morrell, Leon A.

Erickson, Lenart G., Hillsborough, and K. E. Appert, Atherton Heights, assignors to Lenkurt Electric Co., Inc., San Carlos, Calif. Communication transmission line conductor. 2,637,783, May 5.

Erickson, Virginius R.: *See*—
Webber, Charles R., and Erickson.

Ernst, W Arthur, Racine, Wis. Drink mixer agitator. 2,637,537, May 5.

Esheiman, Alvin L., Upland, Calif. Article stacking apparatus. 2,637,450, May 5.

Etablissements Paul Duclos, assignee: *See*—
Ferrari, Jacques.

Evans, Charles T., Jr.: *See*—
Constantine, Leonard R., Evans, and Dennison.

Everson, Roy B., Chicago, Ill. Means for mixing and feeding chlorine gas. 2,637,690, May 5.

Fageiston, Isaac: *See*—
Taylor, James, Hutchison, and Fageiston.

Fahey, Edward W., assignor to Sheilmar Products Corporation, Chicago, Ill. Egg handling apparatus. 2,637,435, May 5.

Fahey, Edward W., assignor to Sheilmar Products Corporation, Chicago, Ill. Egg handling apparatus. 2,637,458, May 5.

Fancher, Llewellyn W.: *See*—
Peer, Kenneth C., and Fancher.

Faulhaber, Fritz, Schonthal, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany. Strut or spreader system for folding photographic cameras. 2,637,254, May 5.

Fegley, Charles R.: *See*—
Bitzer, Gottlob, Pingel, and Fegley.

Felderman, Lloyd G., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Apparatus for relatively continuously receiving material and intermittently discharging the same. 2,637,456, May 5.

Fell Developments Limited, assignee: *See*—
Fell, Louis F. R.

Fell, Louis F. R., Littleover, assignor to Fell Developments Limited, London, England. Control for transmission gearing in multiengine power plants. 2,637,169, May 5.

Felters Company, The, assignee: *See*—
Young, Joseph W.

Ferrari, Jacques, Marseille, assignor to Etablissements Paul Duclos, Le Canet-Marseille, France. Spring-plate valve. 2,637,519, May 5.

Ferris, Donald K., assignor to General Motors Corporation, Dayton, Ohio. Clothes washing machine. 2,637,190, May 5.

Fettig, Arthur J., Grosse Pointe Farms, assignor to Burroughs Adding Machine Company, Detroit, Mich. Amount entering means for accounting machines. 2,637,494, May 5.

Fey, Mathias J., assignor to Nichols Wire and Steel Company, Davenport, Iowa. Sheet cutting machine. 2,637,394, May 5.

Fisher, Berne N., Roselle, assignor to General Instrument Corporation, Elizabeth, N. J. Automatic record changer phonograph with movable loading support and stack aligning member. 2,637,558, May 5.

Fisher, Edward S., Billings, Mont. Can top handle. 2,637,465, May 5.

Fitton, Alfred F.: *See*—
Wolf, Michael J., and Fitton.

Fitzpatrick, Stephen L., assignor to Biokolgas System, Inc., Detroit, Mich. Carburetor for powdered fuel. 2,637,599, May 5.

Fitzsimmons, Harold C., West Chester, Pa., assignor to The Sharples Corporation. Sealing means for feed and discharge conduits of centrifugal separator bowls. 2,637,491, May 5.

Fitzsimmons, Richard R., Chicago, Ill., assignor to The Hoover Company, North Canton, Ohio. Electric iron. 2,637,126, May 5.

Flader, Fredric, Inc., assignee: *See*—
Krouse, Lee M., Nourse, Katzmann, and Howard.

Flambard, Inc., assignee: *See*—
Pleydell, Albert and R., and McIntyre.

Fletcher, William A.: *See*—
Nichols, Charles A., Todd, Fletcher, and Keller.

Flexigrip, Inc., assignee: *See*—
Madsen, Börge.
Phillips, Osborne D.

Flora, Laurence H.: *See*—
Tinnerman, George A., and Flora.

Flynn, Joseph D., Oakland, Calif. Upholstery. 2,637,137, May 5.

Forrer, Homer W., Atlanta, Ga., assignor to Atlanta Paper Company. Paperboard carrier. 2,637,480, May 5.

Forrester, Clive B., Miami, Fla. Shoe fastener. 2,637,087, May 5.

Forst, Aaron M., Los Angeles, Calif., assignor of one half to B. Forst. Blade holder. 2,637,105, May 5.

Forst, Bernard, assignee: *See*—
Forst, Aaron M.

Foster, Harry G., Mullens, W. Va. Snaphook. 2,637,088, May 5.

Foster, Reginald T.: *See*—
Talbot, Frank, and Foster.

Foust, Floyd J.: *See*—
Burge, James S., Foust, Shaw, Rider, and McKee.

Fowle, John M., Los Altos, and R. W. Muchmore, Redwood City, assignors to Dura Bond Bearing Co., Palo Alto, Calif. Machine for centrifugal casting. 2,637,078, May 5.

Fox, Alexander P., University City, and C. H. Mueller, assignors to Lincoln Engineering Company, St. Louis, Mo. Lubricant injector. 2,637,413, May 5.

Fox, Gerald B., and D. B. Dickhart, assignors to Hobart Manufacturing Company, Troy, Ohio. Rinse arm connection. 2,637,595, May 5.

Fox, Philip E., Marlborough, assignor to International Business Machines Corporation, New York, N. Y. Pulse generating system. 2,637,811, May 5.

Fral Manufacturing Co., assignee: *See*—
Perlman, Alfred H.

Frazier, David, assignor to The Standard Oil Company, Cleveland, Ohio. Lubricant and making same. 2,637,722, May 5.

Fredd, John V., assignor to Otis Pressure Control, Inc., Dallas, Tex. Tubing caliphering device. 2,637,117, May 5.

French, Charles A., Cuernavaca, Mexico, assignor to L. C. Bates, Winnetka, Ill. Apparatus for vaporizing liquid hydrocarbons. 2,637,637, May 5.

Friedman, Nathan H., Stratford, Conn. Physician's finger cot. 2,637,031, May 5.

Fry, Douglas J.: *See*—
Kendall, John D., and Fry.

Fuller Manufacturing Company, assignee: *See*—
Backus, Thomas.
Backus, Thomas, and Ludvigsen.

Fulton, Joel R., assignor to R. L. Brinson Company, High Point, N. C., trading as Transport Apparatus and Device Company. Apparatus for loading heavy spools. 2,637,452, May 5.

Gabriel Company, The, assignee: *See*—
Patriquin, William G.

Gabriel Steel Company, assignee: *See*—
Creegan, Vincent T.

Gair, Albert W.: *See*—
Booth, James H., and Gair.

Gaithe, Leon D., Managua, Nicaragua, assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Soaplike compositions and making same. 2,637,699, May 5.

Galazzi, Joseph A., Morrison, W. D. Jordan, Chicago, and P. D. Van Vliet, River Forest, assignors to Liquid Carbonic Corporation, Chicago, Ill. Refrigerated storage, dispensing, and display cabinet. 2,637,178, May 5.

Gaona, Rafael C., Tijuana, Baja California, Mexico. Electrically controlled lock. 2,637,578, May 5.

Garbo, Paul W., Long Beach, N. Y. Gaseous diffusion process. 2,637,625, May 5.

Gardes, Alfred W., Detroit, Mich., assignor to Honan-Crane Corporation, Lebanon, Ind. Rotary fiber comb and stripper therefor. 2,637,074, May 5.

Gardner, Roland H., assignor to The Hoover Company, North Canton, Ohio. Electric toaster. 2,637,267, May 5.

Gardner, Roland M., Swampscott, Mass., S. J. Gartner, Emporium, Pa., and E. W. Barrett, Danvers, assignors to Sylvania Electric Products Inc., Salem, Mass. Automatic lamp stem fabricating apparatus. 2,637,144, May 5.

Gartner, Stanley J.: *See*—
Gardner, Roland M., Gartner, and Barrett.

Gaunt, William E., Dunellen, E. Bartner, Lake Nelson, and H. A. Schaeffer, Elizabeth, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Intramuscularly-administrable prolonged-action penicillin products. 2,637,679, May 5.

Gehauf, Bernard, and J. Goldenson, Baltimore, Md. Analytical reagent and method. 2,637,631, May 5.

Gehman, Samuel D., assignor to Wingfoot Corporation, Akron, Ohio. Apparatus for measuring stress relaxation of elastomeric materials. 2,637,203, May 5.

Gehrig, Walter, Flint, Mich. Angle of attack indicator. 2,637,294, May 5.

Gehrig, Walter, Flint, Mich. Angle of attack controlled safety device for aircraft. 2,637,295, May 5.

Gemex Company, assignee: *See*—
Kuehn, Herman, and Sand.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Atchison, Leonard W.
Gruss, George A., and Sobieski.
Hammell, Kemper M.
Janos, Alfred G.
Low, Frank D.
Peters, Philip H., Jr.
Powers, James H.
Schumacher, Frank A.
Starkey, Neal E.
Wickman, George E., and Young.

General Instrument Corporation, assignee: *See*—
Fisher, Berne N.

General Motors Corporation, assignee: *See*—
Alexander, Donald F.
Borge, James S., Foust, Shaw, Rider, and McKee.

General Motors Corporation, assignee: *See*—
Critchfield, Robert M., and Lawson.
Ferris, Donald K.
Kendall, Thomas L., Bodenhafer, and Plummer.
Kendall, Thomas L., and Gentry.
Nichols, Charles A., Todd, Fletcher, and Keller.
Short, Brooks H.
Walther, Howard T.

General Refractories Company, assignee: *See*
Heuer, Russell P.

General Tire and Rubber Company, The, assignee: *See*—
Kraft, Herman T.

Gentry, Donald P.: *See*—
Kendall, Thomas L., and Gentry.

George, Fred F., Jr., North Kansas City, Mo. Flange bending toolhead. 2,637,292, May 5.

Germain, Leo M., Shawinigan Falls, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Drying granular vinyl ester polymers. 2,637,119, May 5.

Getz, Delmond L., assignor to The Steel Products Engineering Company, Springfield, Ohio. Ash container. 2,637,285, May 5.

Gialanella, Joseph, Newark, N. J. Carrier. 2,637,475, May 5.

Gibbs, F. S., Inc., assignee: *See*—
Gibbs, Fred S.

Gibbs, Fred S., Waban, assignor to F. S. Gibbs, Inc., Boston, Mass. Recovery of fatty acid values from aqueous liquids containing such values. 2,637,737, May 5.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Tapp, Harry F., and Cochrane.

Gilbertson, Harris S., Tehachapi, Calif. Drafting instrument. 2,637,110, May 5.

Gilg, Frank X., Chatham, and J. C. Singleton, Jr., Watchung, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Closure unit for chamber wall openings. 2,637,461, May 5.

Gill, Alfred E., Plentywood, Mont. Trip rope tensioning and releasing device. 2,637,510, May 5.

Glidden Company, The, assignee: *See*—
Bain, Walter M.

Globe-Union Inc., assignee: *See*—
Kilby, Jack S., and Khouri.

Globe-Wernicke Co., The, assignee: *See*—
MacDonald, Angus S.

Gluesenkamp, Earl W., and G. E. Ham, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation. Fiber-forming copolymer. 2,637,721, May 5.

Gluesenkamp, Earl W., Centerville, and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Diketones and their preparation. 2,637,742, May 5.

Goede, William P., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Close-quarter peen. 2,637,228 May 5.

Goff, William H.: *See*—
McKinley, John K., Scott, Goff, and Nelson.

Goff, William S., assignor to The Clark Manufacturing Company, Cleveland, Ohio. Vapor trap. 2,637,335, May 5.

Goldenson, Jerome: *See*—
Gehauf, Bernard, and Goldenson.

Goldschmidt, Herbert A., and P. J. Leverence, Chicago, Ill. Adjustable coat hanger. 2,637,471, May 5.

Goodman Manufacturing Company, assignee: *See*—
Cartlidge, Frank.

Gorman, Andrew T., Pitcairn, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure brake apparatus. 2,637,601, May 5.

Grado, Calogero, San Diego, Calif. Steam coffee maker. 2,637,266, May 5.

Graham, George M., assignor to Kent-Moore Organization, Inc., Detroit, Mich. Connecting rod aligner. 2,637,118, May 5.

Graham, Shirly L., Ellicott City, and H. H. Howard, Simpsonville, Md. Sound producing device. 2,637,293, May 5.

Grant, Oscar, Jr., and C. H. Jackson, assignors to Art-Rich Manufacturing Company, Dalton, Ga. Tufting machine. 2,637,280, May 5.

Greaves, Charles D., and W. D. Parker, assignors to C. D. Patents Limited, London, England. Manufacture of carbon molded bodies. 2,637,072, May 5.

Green, Arthur H.: *See*—
Guernsey, Glen A., and Green.

Greenberg, Emanuel M., New York, N. Y. Obstetrical forceps. 2,637,320, May 5.

Greenhalgh, Norman: *See*—
Boon, William R., Greenhalgh, London, and Vasey.

Greg, Armand C., New York, N. Y. Electrical measuring apparatus. 2,637,316, May 5.

Griffin, Thomas C., Denver, Colo. Order board. 2,637,570, May 5.

Grinding and Polishing Machinery Corporation, assignee: *See*—
Clyne, Joseph N.

Grotenhouse, James T., Orange City, Iowa. Temperature alarm switch. 2,637,784, May 5.

Grouse, Richard A., assignor to A. H. Hunt Capacitors Limited, London, England. Metallized paper capacitor. 2,637,766, May 5.

Grover, Martin M.: *See*—
Reen, Jerome, and Grover.

Gruss, George A., and A. A. Sobieski, Erie, Pa., assignors to General Electric Company. Collapsibly mounted condenser. 2,637,179, May 5.

Guernsey, Glen A., West Springfield, and A. H. Green, East Longmeadow, assignors to Wico Electric Company, West Springfield, Mass. Control mechanism for brake holders. 2,637,416, May 5.

Gund, Konrad, H. Berger, M. M. Scheer, and R. Schittenhelm, Erlangen, Germany. Electron accelerator. 2,637,818, May 5.

Günthart, Jacques: *See*—
Peter, Albin, and Günthart.

Gustin, George M., Wabash, Ind. Conditioning apparatus for rotary saws. 2,637,223, May 5.

Gzupkaytil, Matt, Miami, Fla. Window operator. 2,637,548, May 5.

Hadley, Harlan A., Rutland, Vt., assignor to The Howe Scale Company. Weighing scale. 2,637,546, May 5.

Hagen, Glenn E., Lawndale, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Electronic pulse spacer. 2,637,812, May 5.

Haglund, Gustaf, Storangen, near Stockholm, Sweden. Preparing raw sulfite acid. 2,637,627, May 5.

Ham, George E.: *See*—
Gluesenkamp, Earl W., and Ham.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Dyeing an acrylonitrile copolymer with acid dyes and thiourea. 2,637,620, May 5.

Hamer, Clarence E., Iowa City, Iowa. Transmission jack. 2,637,449, May 5.

Hammell, Kemper M., Harrisburg, Pa., assignor to General Electric Company. Indicator switch mechanism for electric ranges and the like. 2,637,800, May 5.

Handwerk, Erwin C., Lehighton, G. T. Mahler, and L. J. Held, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Condensing zinc vapor. 2,637,649, May 5.

Hanes, James W. E.: *See*—
Williams, William J., and Hanes.

Hanmer, Robert S.: *See*—
Smith, Frederick M., and Hanmer.

Harbison, Alan L., Baden, Pa. Lubricator for car-wheel flanges. 2,637,411, May 5.

Harmon, Cline H., assignor to Waterloo Foundry Company, Waterloo, Iowa. Closure for exhaust pipe for gas engines. 2,637,264, May 5.

Harper, Lyndus E., Chicago, Ill., assignor to Omega Machine Company, Providence, R. I. Belt type gravimetric feeder. 2,637,434, May 5.

Harris, Charles F., Chicago, Ill. Repeat cycle control mechanism. 2,637,431, May 5.

Harris, John R., New York, N. Y. Toy airplane. 2,637,139, May 5.

Harris, Louise E., Macon, Ga. Cigarette chute. 2,637,490, May 5.

Harris-Seybold Company, assignee: *See*—
Spiller, William R., and West.

Harrison, John B., and G. T. Adams, assignors to Rotary Lift Company, Memphis, Tenn. Low oil control. 2,637,302, May 5.

Hartmann, Hans: *See*—
Meyerhans, August, and Hartmann.

Hartrampf, Otto B., Hillsboro, Oreg. Size grading device. 2,637,442, May 5.

Harvel Corporation, The, assignee: *See*—
Harvey, Mortimer T.

Harvey, Mortimer T., South Orange, N. J., assignor to The Harvel Corporation. Products and methods: reacting cashew nut shell liquid and polymers with unsaturated fatty acids. 2,637,709, May 5.

Hashem, Abraham T., and T. A., Cheektawaga, N. Y. Sterilizer. 2,637,077, May 5.

Hashem, Thomas A.: *See*—
Hashem, Abraham T., and T. A.

Hathaway, Claude M., Littleton, Colo. Electric pressure head. 2,637,210, May 5.

Haughton Elevator Company, assignee: *See*—
Borden, Joseph H.
Hohnecker, Otto.

Hauswirth, Vernon O., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Cutter bar and mower guard for mowers. 2,637,158, May 5.

Hawley, Mones E.: *See*—
Anderson, Leslie J., and Hawley.

Hazeltine Research, Inc., assignee: *See*—
Richman, Donald.

Heehler, Arthur C., Chicago, and T. E. McDowell, Oak Park, assignors to The Pyle-National Company, Chicago, Ill. Position adjustment locking device for warning lights. 2,637,840, May 5.

Heijnis, James W. L., Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C. Tension device. 2,637,511, May 5.

Held, Llewellyn J.: *See*—
Handwerk, Erwin C., Mahler, and Held.

Helms, Laurence C. and T. R., and M. Browneye, assignors to Helms Products, Inc., Grand Rapids, Mich. Transparency viewer. 2,637,132, May 5.

Helms Products, Inc., assignee: *See*—
Helms, Laurence C. and T. R., and Browneye.

Helms, Travis R.: *See*—
Helms, Laurence C. and T. R., and Browneye.

Hempel, August R.: *See*—
Marling, Paul E., and Hempel.

Henrikson, Bror W., and W. E. Nordmark, assignors to American Seating Company, Grand Rapids, Mich. Clamp. 2,637,081, May 5.

Herbert, Arthur C., New Rochelle, assignor to Barium Development Corporation, New York, N. Y. Producing barium salts. 2,637,700, May 5.

Herbert, Arthur D., New Brunswick, N. J., assignor to American Cyanamid Company, New York, N. Y. Sealed variable length cell and positioner. 2,637,817, May 5.

Hercules Powder Company, assignee: *See*—
Hulse, George E.

Herrick, Malcolm P., Rochester, N. Y., assignor to Stromberg-Carlson Company. Oscillator for AM-FM receivers. 2,637,808, May 5.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Wide band microwave spectroscopy. 2,637,767, May 5.

Herzog, Miriam S., Riverdale, N. Y. Insulated undergarment. 2,637,035, May 5.

Hess, Howard V.: *See*—
Arnold, George B., Hess, and Skelton.

Hesson, Ralph H., Brooklyn, N. Y. Implement for decorating walls and other surfaces. 2,637,272, May 5.

Hester, Harry W., Chenoa, assignor of one-third to G. C. Simpson, St. Charles, and one-third to R. H. Wendt, Chicago, Ill. Gas-operated self-ejecting and self-loading firearm. 2,637,247, May 5.

Heuer, Russell P., Villanova, Pa., assignor to General Refractories Company. Self-contained replaceable panels for open hearth furnaces. 2,637,286, May 5.

Higuet, Max, Paris, France. Manufacture of magnesia and calcium carbonate. 2,637,545, May 5.

Highland Manufacturing Company, assignee: *See*—
Dodge, Lloyd L.

Hinsey, Robert S., assignor to The Bingham-Herbrand Corporation, Toledo, Ohio. Mechanism control. 2,637,218, May 5.

Hoagland, Kenneth A., Newark, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Ion-trap cathode-ray tube. 2,637,828, May 5.

Hobart Manufacturing Company, The, assignee: *See*—
Fox, Gerald B., and Dickhart.

Hobson, H. M., Limited, assignee: *See*—
Stokes, Philip H., Avenell, and Mitchell.

Hodge, John E., Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. N-(3,4,6-triacetyl-D-glucosyl) piperidine and preparing same. 2,637,727, May 5.

Hoetscher, William G., assignor to The American Tool Works Company, Cincinnati, Ohio. Lubricating apparatus. 2,637,412, May 5.

Hoff, Jean M., Evanston, Ill. Toy vehicular system. 2,637,140, May 5.

Hoff, John M.: *See*—
Mayer, Charles M., and Hoff.
Perl, Richard L., and Hoff.

Hoffman, Theodore E., Van Nuys, Calif. Wrench handle having detachable hand wheel and flexible shaft. 2,637,233, May 5.

Hofmann, Alfred, & Co., assignee: *See*—
Schoemaker, Peter J.

Hoge, Frederick H., Oak Park, and J. A. Marland, La Grange, assignors to W. A. Jones Foundry & Machine Company, Chicago, Ill. Car puller. 2,637,526, May 5.

Hohnecker, Otto, assignor to Haughton Elevator Company, Toledo, Ohio. Safety switch for escalators. 2,637,432, May 5.

Holan, J. H., Corporation, assignee: *See*—
Troche, Herman J., and Holan.

Holan, James H.: *See*—
Troche, Herman J., and Holan.

Hollins, Jesse R., Brooklyn, N. Y. Vehicle lamp with lens and reflector means. 2,637,804, May 5.

Holmes, Ernest, Company, assignee: *See*—
Holmes, Ernest W., and E. W., Jr.

Holmes, Ernest W., deceased, late of Chattanooga, Tenn., by S. B. Strang, administrator, and E. W. Holmes, Jr., Chattanooga, Tenn., assignors to Ernest Holmes Company. Boom structure for wreckers and similar apparatus. 2,637,447, May 5.

Holmes, Ernest W., deceased, late of Chattanooga, Tenn., by S. B. Strang, administrator, and E. W. Holmes, Jr., Chattanooga, Tenn., assignors to Ernest Holmes Company. Wrecker. 2,637,448, May 5.

Holmes, Ernest W., Jr.: *See*—
Holmes, Ernest W., and E. W., Jr.

Holmes, Louis D., Blue Island, assignor to Whiting Corporation, Harvey, Ill. Rotary brush type apparatus for washing roofs of railway cars and other vehicles. 2,637,054, May 5.

Honnan-Crane Corporation, assignee: *See*—
Gardes, Alfred W.

Hooker, Ray O., San Fernando, Calif. Electric shears. 2,637,103, May 5.

Hoover Company, The, assignee: *See*—
Fitzsimmons, Richard R.
Gardner, Roland H.
Humphrey, Warren A.
Martin, Frank A., and Ripple.
Stein, Herman W., and Risher.
Sutton, Otis B., and Humphrey.

Hopkins, John R.: *See*—
Rescsanski, Joseph A., and Hopkins.

Houdaille-Hershey Corporation, assignee: *See*—
O'Connor, Bernard E.

House, Bryan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,637,417, May 5.

Houston, Gaines N., Houston, Tex., assignor, by mesne assignments, to Mathieson Chemical Corporation, New York, N. Y. Burning sulfur. 2,637,630, May 5.

Houston, William L., Jr., and M. F. Rawlings, Phillips, Tex., assignors to Phillips Petroleum Company. Emergency valve. 2,637,333, May 5.

Howard, Fred A.: *See*—
Krouse, Lee M., Nourse, Katzmann, and Howard.

Howard, Henderson H.: *See*—
Graham, Shirly L., and Howard.

Howard, Kenneth C., assignor to Richardson & Bass, Fort Worth, Tex. Offshore drilling platform. 2,637,172, May 5.

Howard, Roscoe D., and R. E. Samuelson, assignors to Beech Aircraft Corporation, Wichita, Kans. Aluminum etch. 2,637,634, May 5.

Howe, John F., Bartlesville, Okla., assignor to Phillips Petroleum Company. Coating articles with an olefin-sulfur dioxide resin. 2,637,664, May 5.

Howe Scale Company, The, assignee: *See*—
Hadley, Harlan A.

Howell, Everett G., Riverside, Calif. Cutting tool. 2,637,529, May 5.

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Temporary load switch. 2,637,795, May 5.

Hubbard, Robert L., assignee: *See*—
Cutler, Bertram S.

Hughes, Alvin W., assignee: *See*—
Taylor, William H.

Hull, Frederick C.: *See*—
Losco, Ezekiel F., and Hull.

Hulse, George E., assignor to Hercules Powder Company, Wilmington, Del. Adhesive comprising methyl isopropenyl ketone-butadiene copolymer. 2,637,710, May 5.

Humphrey, Warren A.: *See*—
Sutton, Otis B., and Humphrey.

Humphrey, Warren A., Canton, assignor to The Hoover Company, North Canton, Ohio. Motor. 2,637,826, May 5.

Humphreys, John W., assignor to Johnson Products, Inc., Muskegon, Mich. Self-adjusting mechanical tappet. 2,637,309, May 5.

Hunt, A. H., Capacitors Limited, assignee: *See*—
Grouse, Richard A.

Hurley, Forrest R., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Condensation product of polymeric phosphonitrilic chloride, chloroaniline, and a polyamino compound. 2,637,704, May 5.

Hurtel, William W., Los Angeles, Calif. Keyless tumbler lock. 2,637,195, May 5.

Hurxthal, Alpheus O., Philadelphia, Pa., assignor to Proctor and Schwartz, Inc. Loop drier girt. 2,637,093, May 5.

Hutchison, Alexander C.: *See*—
Taylor, James, Hutchison, and Fagelston.

Huvendick, Karl, and H. Wilhelmi, Mulheim-Ruhr, Germany. Pulley block. 2,637,524, May 5.

Hyde, Robert W., assignor to The Clopay Corporation, Cincinnati, Ohio. Window cornice. 2,637,380, May 5.

Hydro-Blast Corporation, The, assignee: *See*—
Webster, Roderick.

Hyer, Paul F., assignee: *See*—
Lowther, Mary T., and McKinstry.

Hyslop, Andrew Jr., Adena, Ohio. Traveling-saw machine with automatic guard. 2,637,333, May 5.

Ickes, George: *See*—
Brown, Theophilus, and Ickes.

Ilford Limited, assignee: *See*—
Kendall, John D., and Fry.

Imperial Brass Manufacturing Company, The, assignee: *See*—
McIntosh, Robert D.

Imperial Chemical Industries Limited, assignee: *See*—
Boon, William R., Greenhalgh, London, and Vasey.
Talbot, Frank and Foster.
Taylor, James, Hutchison, and Fagelston.

Imperial Knife Company, Inc., assignee: *See*—
Vossler, Henry.

Industrial Tape Corporation, assignee: *See*—
Bergstedt, Milton A., and Lamason.

International Bitumen Emulsions Limited, assignee: *See*—
Bradshaw, Leonard C.

International Business Machines Corporation, assignee: *See*—
Doty, Charles R.
Fox, Philip E.
Luhn, Hans P.
Palmer, Ralph L.
Watson, Thomas J., and Brand.

International Nickel Company, The, assignee: *See*—
McKay, Robert J.

Iowa State College Research Foundation, Inc., assignee: *See*—
Spangler, Merlin G., and Chu.

Ipsen, Harold N., Rockford, Ill. Electric heating apparatus. 2,637,755, May 5.

Iron Fireman Manufacturing Company, assignee: *See*—
Kingsley, Errol F.

Isacco, Vittorio, London, England. Telescopic rotor blades and brakes therefor. 2,637,406, May 5.

Jackson, Clark E.: *See*—
Brown, Keith E., Clark, and Jackson.

Jackson, Clovis H.: *See*—
Grant, Oscar, Jr., and Jackson.

Jackson, Louis, New York, N. Y. Transferring designs. 2,637,271, May 5.

Jacobs, William A., Flushing, N. Y. Lamp shade construction. 2,637,805, May 5.

Jacobsen, Richard S., Los Angeles, Calif. Spiral vibrating conveyer. 2,637,437, May 5.

James, John R., Garden City, N. Y., assignor to Deering Milliken Research Trust, Greenwich, Conn. Textile treating compounds and applying them to textiles. 2,637,623, May 5.

Janett, Leslie G.: *See*—
Lesniak, Frank G., and Janett.

Janos, Alfred G., Erie, Pa., assignor to General Electric Company. Heat exchange structure. 2,637,330, May 5.

Jarowski, Charles I., Flushing, and F. X. Murphy, Elmhurst, assignors to Chas. Pfizer & Co., Inc., New York, N. Y. Methylolstreptomycin. 2,637,724, May 5.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jewell, Howard W., assignor to Pacific Clay Products, Los Angeles, Calif. Resistant pipe and conduit construction. 2,637,346, May 5.

Johnson, Gordon, Company, assignee: *See*—
Johnson, Gordon W.

Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Poultry chilling apparatus. 2,637,066, May 5.

Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Poultry plucking machine. 2,637,067, May 5.

Johnson, Louis W., and W. G. Saunders, Eugene, Oreg., said Saunders assignor to said Johnson. Hand-guided and chain-driven bark-removing tool. 2,637,357, May 5.

Johnson Products, Inc., assignee: *See*—
Humphreys, John W.

Johnson, William A., Farnborough, assignor to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Aerial system. 2,637,814, May 5.

Johnstone, Alexander P.: *See*—
Robson, Arthur R. D., and Johnstone.

Jolly, Samuel E., Prospect Park, assignor to Sun Oil Company, Philadelphia, Pa. Extraction of naphthenic acids. 2,637,744, May 5.

Jones, W. A., Foundry & Machine Company, assignee: *See*—
Hoge, Frederick H., and Marland.

Jordan, Olga F., Chicago, Ill. Double boiler cooking utensil. 2,637,439, May 5.

Jordan, Wayne D.: *See*—
Galazzi, Joseph A., Jordan, and Van Vliet.

Journal Box Servicing Corporation, assignee: *See*—
Potter, Thomas W.

Joy Manufacturing Company, assignee: *See*—
Barrett, Arthur L.
Felderman, Lloyd G.

Joyce, Harold L., Hartford City, Ind. Miniature or toy railroad track. 2,637,501, May 5.

Kahn, Julian S., New York, N. Y. Detonating toy dart. 2,637,142, May 5.

Kammerdiener, Harold L., Cadogan, Pa. Ground detector and protective system. 2,637,843, May 5.

Kaney, Joseph F., Philadelphia, Pa. Valve testing apparatus. 2,637,197, May 5.

Karas, Walter, Detroit, Mich. Curtain stretcher. 2,637,135, May 5.

Kariby, Henning, Pittsburgh, Pa. Automobile body structure. 2,637,592, May 5.

Kass, Sholom: *See*—
Davis, Howard, Kass, Kelliher, and Pick.

Kassel, Louis S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Distillation of solid carbonaceous materials. 2,637,683, May 5.

Katz, Martin, New York, N. Y. Mail chute. 2,637,430, May 5.

Katzmann, Helmut R.: *See*—
Krouse, Lee M., Nourse, Katzmann, and Howard.

Kaupp, Ethel R., New York, N. Y. Girdle construction. 2,637,033, May 5.

Kay, Isadore, Chicago, Ill. Nonsag garment pocket. 2,637,040, May 5.

Kazmierski, Elias A.: *See*—
Marquez, Charles L., Jr., and Kazmierski.

Kedzie, Adam S.: *See*—
Schulz, Carl G., and Kedzie.

Keller, Clarence J.: *See*—
Nichols, Charles A., Todd, Fletcher, and Keller.

Kelley, Walter L., Avenal, Calif., and G. Adamec, New York, N. Y.: said Adamec assignor to said Kelley. Door lock and light control switch arrangement. 2,637,801, May 5.

Kelliher, Jerome F.: *See*—
Davis, Howard, Kass, Kelliher, and Pick.

Kellogg, M. W., Company, The, assignee: *See*—
McGrath, Henry G.

Kemppe, Adolph J., Santa Rosa, Calif. Centrifugal casting device. 2,637,079, May 5.

Kendall, John D., and D. J. Fry, assignors to Ilford Limited, Ilford, England. Polymethine dyes. 2,637,729, May 5.

Kendall, Thomas L., and D. P. Gentry, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Electrolyte level indicator. 2,637,209, May 5.

Kendall, Thomas L., C. B. Bodenhafer, and R. I. Plummer, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Charging storage batteries. 2,637,836, May 5.

Kent-Moore Organization, Inc., assignee: *See*—
Graham, George M.

Kessel, Johannes B., assignor to Dorrmeyer Corporation, Chicago, Ill. Food mixer power unit. 2,637,824, May 5.

Kessler, Carl E., Mineral Wells, Tex. Antenna tower supporting base. 2,637,516, May 5.

Kessler, Edwin L., assignor to The Budd Company, Philadelphia, Pa. Heating and ventilating system, particularly for vehicles. 2,637,500, May 5.

Khouri, Alfred S.: *See*—
Kilby, Jack S., and Khouri.

Kleckhefer Container Company, assignee: *See*—
Spiess, Francis J.

Kilby, Jack S., and A. S. Khouri, assignors to Globe-Union Inc., Milwaukee, Wis. Electrical network having distributed capacitance. 2,637,777, May 5.

King Sales & Engineering Co., assignee: *See*—
McGihon, Leonard.

Kingsley, Errol F., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Electric load limiter. 2,637,822, May 5.

Kirshenbaum, Abraham D., Philadelphia, Pa., and J. M. Boyle, Bayonne, N. J., assignor to Standard Oil Development Company. Hydrocarbon oil composition. 2,637,696, May 5.

Klaudt, Helmuth R., Menno, S. Dak. Exercise bar. 2,637,555, May 5.

Klee, Camilla: *See*—
Bachmann, Camilla.

Klein, Chris, Warrenville, R. C. Skarin, Western Springs, and W. G. Tinker, Itasca, assignors to The Petersen Oven Company, Franklin Park, Ill. Unit heating system for baking ovens. 2,637,283, May 5.

Kling, Leroy A., assignee: *See*—
Elliston, Mary W.

Klink, Herbert R., Roanoke, Va. Grain sterilizing device. 2,637,624, May 5.

Kodama, George T., Dunstable, assignor to Sprague Electric Company, North Adams, Mass. Tone compensated volume control. 2,637,778, May 5.

Kofler, William, New York, N. Y. Sausage making machine. 2,637,068, May 5.

Kohl, Peter, assignor to A. Monforts, Munchen-Gladbach, Germany. Drive for brushing cylinders or rough rolls in teaseling machines. 2,637,092, May 5.

Koppers Company, Inc., assignee: *See*—
Bigley, Miles O.

Korecki, Walter, Brooklyn, N. Y. Safety electric fuse connector. 2,637,793, May 5.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Defoliant composition. 2,637,646, May 5.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Herbicidal compositions. 2,637,647, May 5.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Branched higher alkanol sulfates. 2,637,740, May 5.

Kothe, Herbert J., Bronx, assignor to Standard Brands Incorporated, New York, N. Y. Egg white composition. 2,637,654, May 5.

Kraft, Herman T., assignor to The General Tire and Rubber Company, Akron, Ohio. Torque transmitting device employing extensible resilient clutch elements. 2,637,345, May 5.

Kraft, Herman T., assignor to The General Tire and Rubber Company, Akron, Ohio. Fluid operated coupling with detachable shoes. 2,637,427, May 5.

Kraus, Wallace, Brooklyn, N. Y. Making small article packages. 2,637,152, May 5.

Krémer, Gilbert H. V.: *See*—
Lantz, Robert L., and Krémer.

Krewson, Charles F., Abington, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Colloidal flavonol system. 2,637,725, May 5.

Kroenlein, Henry A., Los Angeles, Calif. Bow compass. 2,637,113, May 5.

Kromer, Edward L.: *See*—
Kromer, Esther M. and E. L.

Kromer, Esther M. and E. L., Chicago, Ill. Sheet. 2,637,049, May 5.

Krouse, Lee M., Kenmore, N. Y., J. H. Nourse, Fort Erie, Ontario, Canada, H. R. Katzmann, and F. A. Howard, assignors to Fredric Flader, Inc., Buffalo, N. Y. Compressor. 2,637,488, May 5.

Krueger, Conrad P., Hopkins, assignor to Patent Management, Incorporated, Minneapolis, Minn. Driving mechanism for tremolos. 2,637,213, May 5.

Kuehn, Herman, Union, and J. F. Sand, Newark, assignors to Gemex Company, Union, N. J. Spring hook clasp. 2,637,089, May 5.

Kupchick, Edward, Brooklyn, assignor to Benrus Watch Company, Inc., New York, N. Y. End clasp for bracelets or the like. 2,637,090, May 5.

La Fontaine, Leon L., Spokane, Wash., and F. H. Neuman, Coeur d'Alene, Idaho. Fishing line meter. 2,637,112, May 5.

Lamason, Robert H.: *See*—
Bergstedt, Milton A., and Lamason.

Landry, Adolphus H., North Miami, Fla. Head motion for looms. 2,637,347, May 5.

Langen, Eugen, Elsdorf, Germany. Extraction tower for comminuted material of vegetable or plant origin, particularly sugar beets. 2,637,666, May 5.

Langworthy, Courtland H., Irwin, assignor to Elliott Company, Jeannette, Pa. Speed regulating apparatus for fluid driven prime movers. 2,637,332, May 5.

Lantry, Gerald F., Detroit, Mich. Ski sled. 2,637,565, May 5.

Lantz, Robert L., Paris, and G. H. V. Krémer, Ermont, assignors to Compagnie Française des Matieres Colorantes S. A. R. L., Paris, France. Preparation of derivatives of 1,4-diamino-benzene-N-sulphonic acid. 2,637,743, May 5.

Lapeyre, Emile M.: *See*—
Lapeyre, Fernand S. and E. M.

Lapeyre, Fernand S., New Orleans, and E. M. Lapeyre, assignors, by mesne assignments, to The Peelers Company, Houma, La. Shrimp cleaner and peeler. 2,627,065, May 5.

Lark-Horovitz, Karl, La Fayette, and R. M. Whaley, West Lafayette, assignors to Purdue Research Foundation, La Fayette, Ind. Alloys and rectifiers made thereof. 2,637,770, May 5.

Larson, Charles O., Sterling, Ill. Saw horse with a shiftable tool tray. 2,637,358, May 5.

Latini, Edmond: *See*—
Latini, Leo and E.

Latini, Leo and E., Chicago, Ill.; said E. Latini assignor to said L. Latini. Candy preforming machine. 2,637,281, May 5.

Lawson, John W.: *See*—
Critchfield, Robert M., and Lawson.
Laycock, Kenneth G., Shavertown, Pa. Web tensioning means. 2,637,505, May 5.
Laycock, Kenneth G., Shavertown, Pa. Web tension control for printing presses. 2,637,506, May 5.
Lea, Henry V.: *See*—
Schmidt, Lewis W., and Lea.
Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine frame and cutter bar construction. 2,637,543, May 5.
Lee, Robert E., Baltimore, Md. Tappet adjusting tool. 2,637,229, May 5.
Leedecke, William H.: *See*—
Brown, Charles R., and Leedecke.
Leeds and Northrup Company, assignee: *See*—
Stein, Irving M.
Leisk, Roland T. East Chicago, assignor to American Steel Foundries, Chicago, Ill. Bolster. 2,637,280, May 5.
Leitenberger, William C.: *See*—
Portzer, Lloyd H., and Leitenberger.
Leitz, Ernst, G. m. b. H., assignee: *See*—
Broschke, Heinrich.
Ludewig, Maximilian.
Marx, Helmut.
Lenkurt Electric Co., Inc., assignee: *See*—
Erickson, Leonart G., and Appert.
Lesniak, Frank G., Laurel, Miss., and L. G. Janett, Chicago, Ill., assignors to Masonite Corporation, Laurel, Miss. Apparatus and process for baking sheet material. 2,637,120, May 5.
Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.
Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Rear endgate actuating mechanism for carry-type scrapers. 2,637,124, May 5.
Leverence, Peter J.: *See*—
Goldschmidt, Herbert A., and Leverence.
Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Roasting sulfide ores. 2,637,629, May 5.
Libenson, Leon, Pittsburgh, Pa. Dibenzyl tetrathiodiglycolate. 2,637,741, May 5.
Licari, Vincent, Kansas City, Mo. Support means for slidable jaw wrenches. 2,637,235, May 5.
Lillenthal, Constantino, Buenos Aires, Argentina. Atomiser for spraying insecticide liquids and the like. 2,637,596, May 5.
Lincoln Engineering Company, assignee: *See*—
Fox, Alexander P., and Mueller.
Lindeman, Jesse G., Yakima, Wash., assignor to Deere & Company, Moline, Ill. Reversible colter for two-way plows. 2,637,256, May 5.
Liquid Carbonic Corporation, assignee: *See*—
Gaiazzi, Joseph A., Jordan, and Van Vliet.
Lock, Frank, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Hoist limit mechanism. 2,637,525, May 5.
Locke Steel Chain Company, The, assignee: *See*—
Stegeman, Henry J.
Lockwood, Charles H., Atchison, Kans., assignor to The Lockwood Company, Inc. Loose-leaf binder. 2,637,323, May 5.
Lockwood Company, Inc., The, assignee: *See*—
Lockwood, Charles H.
Lodewick, Madeleine: *See*—
Lodewick, Mildred, and M. Lodewick.
Lodewick, Mildred, and M., New York, N. Y. Receptacle for lipsticks. 2,637,440, May 5.
London, Eric: *See*—
Boon, William R., Greenhaigh, London, and Vasey.
Long Manufacturing Company, Inc., assignee: *See*—
Atkinson, Wallace E.
Long, Richard H., and E. E. Prather, assignors to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,637,425, May 5.
Longacre, Andrew, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Protective electric breakdown device. 2,637,780, May 5.
Longley, Raymond I., Jr.: *See*—
Emerson, William S., and Longley.
Longnecker, Joseph B.: *See*—
Cleland, James E., and Longnecker.
Lorentzen, Hans K., Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Cord stop. 2,637,084, May 5.
Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Lorentzen, Hans K.
Nelson, Harry.
Losco, Ezekiel F., and F. C. Hull, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Producing bolts. 2,637,672, May 5.
Low, Frank D., La Grange Park, Ill., assignor to General Electric Company. Mounting bracket for faucets and the like. 2,637,044, May 5.
Lowe, Sahn K., Honolulu, Hawaii. Vest-pocket type calculator. 2,637,497, May 5.
Lowther, Mary T., and A. R. McKinstry, assignors of one-fourth to said Lowther, one-fourth to P. F. Hyer, and one-half to C. F. Brock, Brunswick, Ga. Detachable button. 2,637,082, May 5.
Lucker, Millard B., assignor to Auto Specialties Manufacturing Co., St. Joseph, Mich. Lifting jack. 2,637,523, May 5.
Ludeman, Oscar H., New York, N. Y. Valve. 2,637,520, May 5.
Ludewig, Maximilian, assignor to E. Leitz, G. m. b. H., Wetzlar, Germany. Eyepiece for optical instruments. 2,637,245, May 5.
Ludvigsen, Elliot L.: *See*—
Backus, Thomas, and Ludvigsen.
Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Record controlled assembly jig. 2,637,096, May 5.
Lukens Steel Company, assignee: *See*—
Charlton, Edward J., and Edwards.
Lunas, Lawrence J., Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Moving-coil electrical measuring instrument. 2,637,762, May 5.
Lund, Frederik C. F. G., Princeton, N. J., assignor to Radio Corporation of America. Coupling of a helical conductor to a wave guide. 2,637,775, May 5.
Luneburg, Rudolf K.: *See*—
Oaterberg, Harold, Mueller, and Luneburg.
Lyons, Leonadus R., Billings, Mont. Try-on garment hanger. 2,637,472, May 5.
Macbeth Arc Lamp Co., assignee: *See*—
Eachus, Iredell, Jr.
MacDonald, Angus S., near Rapidan, Va., assignor to The Globe-Wernicke Co. Carrel unit. 2,637,616, May 5.
Madsen, Børge, Copenhagen, Denmark, assignor, by mesne assignments, to Flexigrip, Inc., New York, N. Y. Separable fastener. 2,637,085, May 5.
Magnuski, Henry, assignor to Motorola, Inc., Chicago, Ill. Resonant cavity filter. 2,637,782, May 5.
Mahler, George T.: *See*—
Handwerk, Erwin C., Mahler, and Heid.
Make-All Tool & Die Co., assignee: *See*—
Rose, Harry J.
Man-Sew Corporation, assignee: *See*—
Sigoda, Victor J.
Mansour, Joseph N.: *See*—
Wilmot, Charles M., and Mansour.
Marano, Herbert W., Brooklyn, N. Y., assignor to Wilson Jones Company, Chicago, Ill. Staple support slide and feed means for stapling machines. 2,637,029, May 5.
Mark, Louis S., Brooklyn, assignor to Mark-Sambar, Inc., New York, N. Y. Adjustable table cover. 2,637,136, May 5.
Mark-Sambar, Inc., assignee: *See*—
Mark, Louis S.
Marland, Joseph A.: *See*—
Hoge, Frederick H., and Marland.
Marling, Paul E., and A. R. Hempel, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Oil modified alkyd resins from degummed soybean oil and mono-pentaerythritol. 2,637,707, May 5.
Marling, Paul E., and A. R. Hempel, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Pentaerythritol-degummed soybean oil-modified alkyd resins. 2,637,708, May 5.
Marquez, Charles L., Jr., Jersey City, and E. A. Kazmierski, Bernardsville, N. J., assignors to The Babcock & Wilcox Company, New York, N. Y. Fluid cooled furnace. 2,637,306, May 5.
Marsden, George B., assignor to Chicago Nipple Manufacturing Company, Chicago, Ill. Feeding mechanism for nipple threading machines and the like. 2,637,051, May 5.
Martin, Eric L., Santa Monica, Calif., assignor to North American Aviation, Inc. Valve for shock absorbers. 2,637,337, May 5.
Martin, Frank A., Akron, and M. H. Ripple, Canton, assignors to The Hoover Company, North Canton, Ohio. Filter structure for suction cleaning apparatus. 2,637,410, May 5.
Martin, Glenn L., Company, The, assignee: *See*—
Goede, William P.
Martin, Hayes, New York, assignor to Welch Allyn, Inc., Auburn, N. Y. Binocular vision diagnostic instrument. 2,637,317, May 5.
Martin, William O., Fort Smith, Ark. Wheel slide-indicator and control mechanism for diesel and electric locomotives. 2,637,806, May 5.
Marx, Helmut, Giessen, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Variable phase contrast microscope. 2,637,243, May 5.
Masonite Corporation, assignee: *See*—
Lesniak, Frank G., and Janett.
Mathieson Chemical Corporation, assignee: *See*—
Gaunt, William E., Bartner, and Schaeffer.
Houston, Gaines N.
Matthews, Russell B., Wauwatosa, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Gas valve and electromagnetic control therefor. 2,637,343, May 5.
Matthews, Russell B., Wauwatosa, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Electroinductively actuated valve. 2,637,344, May 5.
Maxfield, Darel L., Forks, and A. A. Rue, Beaver, Wash., said Maxfield assignor to O. H. Sandberg, Forks, Wash. Main line terminal means for logging gears. 2,637,591, May 5.
Maxwell, Fletcher E., Glendale, Calif. Interlocking electrical connector. 2,637,764, May 5.

Mayer, Charles M., assignor to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for oven burners. 2,637,385, May 5.
Mayer, Charles M., and J. M. Hoff, assignors to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for oven burners. 2,637,387, May 5.
Mayer, Charles M., and J. M. Hoff, assignors to The Tappan Stove Company, Mansfield, Ohio. Control mechanism for oven burners. 2,637,388, May 5.
Mayer, Charles M., and J. M. Hoff, assignors to The Tappan Stove Company, Mansfield, Ohio. Control mechanism for oven burners. 2,637,389, May 5.
Mayer, Charles M., assignor to The Tappan Stove Company, Mansfield, Ohio. Oven burner control mechanism. 2,637,392, May 5.
Mayer, Charles M., Mansfield, R. L. Perl, Galion, and E. L. Warner, Crestline, assignors to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for gaseous fuel burners. 2,637,393, May 5.
Maytag Company, The, assignee: *See*—
Smith, Thomas R.
McBee Company, The, assignee: *See*—
Welk, Nelson S.
McBee, Earl T., assignor to Purdue Research Foundation, West Lafayette, Ind. Fluorination. 2,637,747, May 5.
McCabe, Ernestine, assignee: *See*—
McCabe, Walter A.
McCabe, Harold, Somerville, Mass. Drapery holder and looper. 2,637,384, May 5.
McCabe, Walter A., assignor to E. McCabe, East Haddam, Conn. Duplex album leaf for photographic prints. 2,637,325, May 5.
McCarthy, John C., assignee: *See*—
Culver, Harry D.
McClellan, Henry A., Jacksonville, Fla. License tag fastener. 2,637,240, May 5.
McCreary, Ralph L., assignor to Collins Radio Company, Cedar Rapids, Iowa. Current integrator. 2,637,820, May 5.
McCutchen, John E., assignor to The Coleman Company, Inc., Wichita, Kans. Downdraft burner. 2,637,376, May 5.
McDonald, Lucille M., Tacoma, Wash. Surgical armboard attachment. 2,637,608, May 5.
McDowell, Thomas E.: *See*—
Hechler, Arthur C., and McDowell.
McDuff, Pete, Fort Worth, Tex. Tank gauging device. 2,637,111, May 5.
McFarland, Forest R., Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Rotary pump. 2,637,275, May 5.
McGibon, Leonard, Oakland, assignor to King Sales & Engineering Co., San Francisco, Calif. Filling machine and valve therefor. 2,637,478, May 5.
McGrath, Henry G., Elizabeth, assignor to The M. W. Kellogg Company, Jersey City, N. J. Synthesis of organic compounds. 2,637,739, May 5.
McHugh, Michael A., Pittsburgh, Pa. Templet. 2,637,114, May 5.
McIlvin, Donald B., Danvers, and A. R. Abbott, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Through-feed machine for treating sheet materials. 2,637,193, May 5.
McIntosh, Robert D., River Forest, Ill., assignor to The Imperial Brass Manufacturing Company. Tube working tool. 2,637,227, May 5.
McIntyre, Jean F.: *See*—
Pleydell, Albert and R., and McIntyre.
McKay, Robert J., Basking Ridge, N. J., assignor to The International Nickel Company, Inc., New York, N. Y. Producing drawn articles. 2,637,686, May 5.
McKean, Boyd A., Erie, assignor to Titan Tool Company, Fairview, Pa. Tapped insert driver. 2,637,232, May 5.
McKee Door Company, assignee: *See*—
Ritter, Bert.
McKee, Hilton J.: *See*—
Burge, James S., Foust, Shaw, Rider, and McKee.
McKee, Ralph H., New York, N. Y. Continuous manufacture of rayon yarns. 2,637,069, May 5.
McKinley, John K., B. A. Scott, W. H. Goff, and R. F. Nelson, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Calcium-sodium soap greases from highly oxidized waxes. 2,637,695, May 5.
McKinstry, Alston R.: *See*—
Lowther, Mary T., and McKinstry.
McLaughlin, Edward J., El Cerrito, G. H. Denison, Jr., San Rafael, and M. R. Barusch, Richmond, assignors to California Research Corporation, San Francisco, Calif. Supplementary fuel. 2,637,635, May 5.
McLeod, Bentley H., Malvern, Ark. Apparatus for microscopic analysis. 2,637,244, May 5.
McQuary, Hollister A., Washington, D. C. Work holder for grinding machines. 2,637,150, May 5.
Meehanite Metal Corporation, assignee: *See*—
Moore, William H.
Meier, William F., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Air brake testing apparatus. 2,637,201, May 5.
Melten, Glenn L., Framingham Center, assignor to National Research Corporation, Middlesex County, Mass. Velocity measuring by use of nigh energy electrons. 2,637,208, May 5.
Menz, Francis X. and G. Z., Millville, N. J. Rosary cross case. 2,637,438, May 5.
Menz, Gus C.: *See*—
Menz, Francis X. and G. C.
Merserean, Emory P., Thornwood, assignor to Alexander Smith, Incorporated, White Plains, N. Y. Backsized carpet. 2,637,095, May 5.
Merz, Richard E., Bayonne, N. J., assignor to Standard Oil Development Company. Manufacture of high molecular weight ester from water miscible alcohol. 2,637,736, May 5.
Meyer, Edward N., Ada, and H. J. Steiner, Pandora, Ohio. Hitch and grill guard attachment for tractors. 2,637,586, May 5.
Meyerhans, August, Nussbaumen, near Baden, and H. Hartmann, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Combined voltage and current transformer. 2,637,821, May 5.
Meystre, Charles: *See*—
Wettstein, Albert, and Meystre.
Mignocchi, Serge, New York, assignor to Serge Elevator Co., Inc., Bronx, N. Y. Protective device and electrical circuit. 2,637,834, May 5.
Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Insecticidal aerosol compositions comprising a 1,1,1-trichloro-2,2-bis (ethoxy methyl phenyl) ethane in a chloro-fluoro methane. 2,637,676, May 5.
Miller, Charles B., Lynbrook, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Manufacture of fluoro organic compounds. 2,637,748, May 5.
Miller, Kenneth L., assignee: *See*—
Miller, Roscoe L.
Miller, Kenneth W., Chicago, Ill., assignor, by mesne assignments, to C. M. Rifenbergh, Plymouth, Mich. Magnetic pickup unit and making same. 2,637,205, May 5.
Miller, Louis P., Plainfield, assignor to Specialties Development Corporation, Belleville, N. J. Treating yarn. 2,637,658, May 5.
Miller, Louis P., Plainfield, assignor to Specialties Development Corporation, Belleville, N. J. Treating yarn. 2,637,659, May 5.
Miller, Nikoli, Manteo, N. C. Shrimp peeling and veining machine. 2,637,064, May 5.
Miller, Roscoe L., Fowler, assignor to K. L. Miller, Selma, Calif. Earth scraper. 2,637,123, May 5.
Milwaukee Gas Specialty Company, assignee: *See*—
Matthews, Russell B.
Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The, assignee: *See*—
Johnson, William A.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Burdick, Edwin C.
Mitchell, Frederick G., London, England. Endless conveyor. 2,637,455, May 5.
Mitchell, Peter: *See*—
Stokes, Philip H., Avenell, and Mitchell.
Mitchell, Wallace F., Chicago, assignor to Ammco Tools, Inc., North Chicago, Ill. Ridge reamer. 2,637,224, May 5.
Mixing Equipment Co., Inc., assignee: *See*—
Bontrop, Richard D., Donahoe, and Dykman.
Moerman, Nathan A., Jackson Heights, assignor to Potter Instrument Co., Inc., Great Neck, N. Y. Electronic pulse generator. 2,637,810, May 5.
Monarch Forge & Machine Works, assignee: *See*—
Andrus, Budd W.
Monarch Manufacturing Works, Inc., The, assignee: *See*—
Carroll, James M., and Murphy.
Monforts, A., assignee: *See*—
Kohl, Peter.
Monsanto Chemical Company, assignee: *See*—
Benignus, Paul G.
Doerr, Edward L.
Emerson, William S., and Longley.
Gluesenkamp, Earl W., and Patrick.
Hurley, Forrest R.
Kosmin, Milton.
Marling, Paul E., and Hempel.
Montclair Research Corporation, assignee: *See*—
Rust, John B.
Montgomery, Donald H., West Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Recessing attachment. 2,637,237, May 5.
Montmartin, Guy H., assignee: *See*—
De Vecchis, Ineo, and Ramuz.
Moore Electronic Laboratories, Incorporated, assignee: *See*—
Bordewieck, Robert W.
Moore, Leonard D., Ogden, Utah. Machine for cleaning and scraping pallets of block molds. 2,637,057, May 5.
Moore, Thomas W., Dayton, Ohio, assignor, by mesne assignments, to American Machine & Foundry Company, New York, N. Y. Dynamoelectric machine. 2,637,825, May 5.
Moore, William H., Larchmont, N. Y., assignor to Meehanite Metal Corporation. Optimum temper moisture determination in foundry sand. 2,637,212, May 5.
Morain, Clifford F., Youngstown, Ohio. Pipe brushing apparatus. 2,637,056, May 5.

Morey, Leon K., Gloversville, N. Y. Sheave. 2,637,214, May 5.

Morrell, Leon A., deceased, Mount Vernon, N. Y., by L. M. Morrell, executrix, assignor of one-half to E. H. Erickson, Teaneck, and one-half to E. Rosen, Newark, N. J. Ocular prosthesis. 2,637,043, May 5.

Morrell, Lillian M., executrix: *See*—
Morrell, Leon A.

Morton Manufacturing Company, assignee: *See*—
Motter, Charles S.

Moser, Eduard: *See*—
Schmid, Max, and Moser.

Moss, T. J., Tie Company, assignee: *See*—
Pershall, Estes E.

Motorola, Inc., assignee: *See*—
Budlane, Stanley J.
Magnuski, Henry.

Mott, Carl W., La Grange Park, assignor to Elgin Sweeper Company, Elgin, Ill. Power sweeper broom assembly and weight compensating means therefor. 2,637,055, May 5.

Motter, Charles S., assignor to Morton Manufacturing Company, Chicago, Ill. Kitchen cabinet for corner use. 2,637,613, May 5.

Muchmore, Richard W.: *See*—
Fowle, John M., and Muchmore.

Mueller, Carl H.: *See*—
Fox, Alexander P., and Mueller.

Muller, Otto, Southbridge, Mass. Rotary cutter with variable spacing means. 2,637,395, May 5.

Muller, Robert M.: *See*—
Osterberg, Harold, Muller, and Luneburg.

Mumma, Jerry R., Mineral Wells, Tex. Water dispenser. 2,637,819, May 5.

Murdock, Paul F., Clinton, assignor to Pratt Read & Co., Inc., Ivoryton, Conn. Piano action. 2,637,238, May 5.

Murphy, Francis X. *See*—
Jarowski, Charles I., and Murphy.

Murphy, Thomas W.: *See*—
Carroll, James M., and Murphy.

Murray, Maxton F.: *See*—
Ott, Arnold C., and Murray.

Myers, Robert R., Jr., Des Moines, Iowa. Device for making curved electroplate shells. 2,637,689, May 5.

Nadelson, Philip, Long Island City, N. Y. Smoking pipe. 2,637,327, May 5.

Nagel, Charles E., New York, N. Y. Self-locking setscrew. 2,637,361, May 5.

Nahin, Paul G., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Oil-base drilling fluids. 2,637,692, May 5.

National Inventions Corporation, assignee: *See*—
Skrotzki, Frederick H.

National Research Corporation, assignee: *See*—
Mellen, Glenn L.

National Starch Products, Inc., assignee: *See*—
Upton, Wilson V.

National Supply Company, The, assignee: *See*—
Cordrey, Richard N., and Wright.

Naumann, Helmut: *See*—
Noack, Walter, and Naumann.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Bohnert, John I.
Longacre, Andrew.
Pease, Marshall C.
Valley, George E., Jr.

Neely, William H., Cleveland, assignor to The Universal Wire Spring Company, Bedford, Ohio. Sound insulating strip member for sinuously corrugated wire springs. 2,637,046, May 5.

Nelson, Harold F., St. Paul, Minn. Storage battery testing and filling apparatus. 2,637,760, May 5.

Nelson, Harry, McKeesport, Pa., assignor to Lorentzen Hardwart Mf'g. Corp., New York, N. Y. Venetian blind bar organization and fitting. 2,637,382, May 5.

Nelson, Roy F.: *See*—
McKinley, John K., Scott, Goff, and Nelson.

Nemser, Marie, Jersey City, N. J. Clasp pin eyeglass holder. 2,637,080, May 5.

Neuman, Frank H.: *See*—
La Fontaine, Leon L., and Neuman.

New Britain Machine Company, The, assignee: *See*—
Montgomery, Donald H.

New Jersey Zinc Company, The, assignee: *See*—
Handwerk, Erwin C., Mahler, and Held.

Newell, Kenneth F., Longmeadow, assignor to Package Machinery Company, East Longmeadow, Mass. Device for removing cards from between stacked articles. 2,637,451, May 5.

Nichols, Charles A., Anderson, M. E. Todd, Windfall, W. A. Fletcher, Daleville, and C. J. Keller, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Apparatus for heating comminuted molding material. 2,637,070, May 5.

Nichols, Lloyd M., Pittsburg, Kans. Automobile hitch. 2,637,566, May 5.

Nichols Wire and Steel Company, assignee: *See*—
Fey, Mathias J.

Nicholson, Kenneth C., assignor to The Carborundum Company, Niagara Falls, N. Y. Bonded silicon carbide articles and making same. 2,637,091, May 5.

Noack, Walter, and H. Naumann, assignors to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany. Indicating device for photographic cameras. 2,637,253, May 5.

Nordmark, Walter E.: *See*—
Henrikson, Brur W., and Nordmark.

Norman, James S., Jr., Bellaire, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Apparatus for obtaining samples from flowing streams. 2,637,211, May 5.

North American Aviation, Inc., assignee: *See*—
Bolte, Frank B.
Demarest, Charles W., and Willoughby.
Martin, Eric L.

Northrop Aircraft, Inc., assignee: *See*—
Hagen, Glenn E.

Northrop Aircraft, Inc. assignee: *See*—
Threewit, Donald M.

Nottingham, Ralph K., Portland, Oreg., assignor to Phillips Tutch Latch Co., New York, N. Y. Automatic latch for two relatively movable members. 2,637,576, May 5.

Nourse, Jess H.: *See*—
Krouse, Lee M., Nourse, Katzmann, and Howard.

O'Connor, Bernard E., Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Vibration absorbing mount. 2,637,514, May 5.

O'Flaherty, Vincent M., assignor to R. J. Paniener, Milwaukee, Wis. Tachistoscope. 2,637,130, May 5.

Oliver, Frank A., East Detroit, Mich. Detachable wheel mounting for boats. 2,637,050, May 5.

Olson, Holly M., assignor to Sealed Power Corporation, Muskegon, Mich. Piston ring. 2,637,007, May 5.

Omega Machine Company, assignee: *See*—
Harper, Lyndus E.

Ortloff, John E., Tulsa, Okla., assignor to Standard Oil Development Company. Well bore retrieving tool. 2,637,590, May 5.

Osterberg, Harold, and R. M. Muller, Buffalo, N. Y., and R. K. Luneburg, Los Angeles, Calif., assignors to American Optical Company, Southbridge, Mass. Condenser lens system for projectors. 2,637,242, May 5.

Otis, George A., Seattle, Wash. Saliva ejector. 2,637,106, May 5.

Otis Pressure Control, Inc., assignee: *See*—
Fredd, John V.

Ott, Arnold C., and M. F. Murray, assignors to The Upjohn Company, Kalamazoo, Mich. Protection of alcoholic steroid hydroxyl groups. 2,637,728, May 5.

Ott, Gustav H., Richen, assignor to Ciba Limited, Basel, Switzerland. Epoxy resin-polycarboxylic acid-dicyandiamide reaction products. 2,637,715, May 5.

Ott, Gustav H., Richen, assignor to Ciba Limited, Basel, Switzerland. Epoxy-resin, polycarboxylic acid polyamine reaction products. 2,637,716, May 5.

Ozdobinski, Anthony, Edwardsville, Pa. Brush construction. 2,637,001, May 5.

Ozols, Karlis V., Brooklyn, assignor to Product Development Laboratories, Inc., New York, N. Y. Thermosensitive papers and compositions therefor. 2,637,657, May 5.

Pacific Clay Products, assignee: *See*—
Jewell, Howard W.

Package Machinery Company, assignee: *See*—
Newell, Kenneth F.

Packard Motor Car Company, assignee: *See*—
McFarland, Forest R.
Taylor, Joseph C.

Palmer, Ralph L., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Pluggable support for electron tube and circuit. 2,637,763, May 5.

Panellit, Inc., assignee: *See*—
Sperry, Albert F.

Paniener, Richard J., assignee: *See*—
O'Flaherty, Vincent M.

Papa, Domenick: *See*—
Schwenk, Erwin, and Papa.

Parker, Paul T., Baton Rouge, La., assignor to Standard Oil Development Company. Synthesis of octyl alcohols. 2,637,746, May 5.

Parker, William D.: *See*—
Greaves, Charles D., and Parker.

Patent Management, Incorporated, assignee: *See*—
Krueger, Conrad P.

Patrick, Tracy M., Jr.: *See*—
Gluesenkamp, Earl W., and Patrick.

Patriquin, William G., assignor to The Gabriel Company, Cleveland, Ohio. Shock absorber. 2,637,414, May 5.

Patterson, Lawrence W., Santa Ana, Calif. Display rack for bottled goods. 2,637,445, May 5.

Patterson, R. T., assignee: *See*—
Austin, Walter P.

Paulson, Ole B., Belt, Mont. Display apparatus. 2,637,131, May 5.

Pavitt, Harry A., Shirley, assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Powder metallurgy method of making steel cutting tools. 2,637,671, May 5.

Pease, Marshall C., Needham, Mass., assignor to the United States of America as represented by the Secretary of the Navy. Fluid-flow regulator. 2,637,339, May 5.

Peek, Sandford C., Jr.: *See*—
Shaw, Robert E., and Peek.

Peelers Company, The, assignee: *See*—
Lapeyre, Fernand S. and E. M.

Peer, Kenneth C., San Francisco, and L. W. Fancher, Lafayette, Calif. Aerosol generating and propelling composition and insecticide. 2,637,678, May 5.

Perl, Richard L.: *See*—
Mayer, Charles M., Perl, and Warner.

Perl, Richard L., Galion, and J. M. Hoff, assignors to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for oven burners. 2,637,386, May 5.

Perl, Richard L., Galion, and J. M. Hoff, assignors to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for oven burners. 2,637,390, May 5.

Perl, Richard L., Galion, and J. M. Hoff, assignors to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for oven burners. 2,637,391, May 5.

Perlman, Alfred H., assignor to Frai Manufacturing Co., Chicago, Ill. Tire chain cross-link and anchor assembly. 2,637,363, May 5.

Pershall, Estes E., Hazelwood, assignor to T. J. Moss Tie Company, St. Louis, Mo. Wood preservation. 2,637,694, May 5.

Persico, Ralph W., Philadelphia, Pa. Securing coat linings and the like to coats. 2,637,037, May 5.

Peter, Albin, and J. Günthart, assignors to Sandoz, A. G., Basel, Switzerland. Sulphonated (Ba-1-benzanthronyl)-1-aminoanthraquinone compounds. 2,637,734, May 5.

Peters, Philip H., Jr., Schenectady, N. Y., assignor to General Electric Company. Amplitude modulation circuit. 2,637,838, May 5.

Peters, William, and W. Drummond, Albany, Oreg. Sleeping bag. 2,637,048, May 5.

Petersen, Gustav, assignor to Danske Andelsslagteriers Konservesfabrik A. m. b. A., Roskilde, Denmark. Extraction of insulin as well as enzymes from pancreas. 2,637,680, May 5.

Petersen Oven Company, The, assignee: *See*—
Klein, Chris, Skarin, and Tinker.

Peterson, Walter H., Point Richmond, and T. Skei, Lafayette, assignors to Shell Development Company, Emeryville, Calif. Grease compositions. 2,637,694, May 5.

Petit, Daniel, assignor to Societe de Technique Industrielle, Paris, France. Coke oven construction. 2,637,985, May 5.

Petro-Chem Process Company, Inc., assignee: *See*—
Wallis, John S., and Throckmorton.

Pfizer, Chas., & Co., Inc., assignee: *See*—
Jarowski, Charles I., and Murphy.

Philco Corporation, assignee: *See*—
Affel, Herman A., Jr., and Dibos.

Phillips, Osborne D., Bronxville, assignor, by mesne assignments, to Flexigrip, Inc., New York, N. Y. Combined slide fastener. 2,637,086, May 5.

Phillips, Harry, Winston-Salem, N. C. Fishing reel. 2,637,507, May 5.

Phillips Petroleum Company, assignee: *See*—
Aston, John G., and Black.
Bubb, Frank W.
De Boisblanc, Deslonde R.
Houston, William L., Jr., and Rawlings.
Howe, John F.
Piety, Raymond G.
Smith, Frederick M., and Hanmer.
Strunk, Edward.

Phillips Tutch Latch Co., assignee: *See*—
Nottingham, Ralph K.

Phillips, Vernon J., and H. H. Brown, Anderson, S. C. Shuttle binder. 2,637,350, May 5.

Pick, Lawrence A.: *See*—
Davis, Howard, Kass, Keliher, and Pick.

Pielop, William E., Jr., Houston, Tex. Slush pump seal ring. 2,637,606, May 5.

Pietri, Adolph V., Los Angeles, Calif. Valise with permutation lock. 2,637,194, May 5.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Rotational seismometer. 2,637,839, May 5.

Pike, William S., Jr., Metairie, La. Electrical control device for scale-model railroads. 2,637,796, May 5.

Pilkington Brothers Limited, assignee: *See*—
Barradell-Smith, Richard, and Davison.
Davison, Richard, and Barradell-Smith.

Pine, Julius, assignor to Sedgwick Furniture Corp., Brooklyn, N. Y. Display support. 2,637,444, May 5.

Pingel, Henry C.: *See*—
Bitzer, Gottlob, Pingel, and Fegley.

Pinanti, Giuseppe F., New York, N. Y. Garment seat cushion. 2,637,032, May 5.

Pitts, William C.: *See*—
Rudy, John L., and Pitts.

Place, Charles L., Norfolk, Conn. Blower wheel construction. 2,637,489, May 5.

Pleydell, Albert and R., Bellerose, and J. F. McIntyre, Flushing, assignors to Flambard, Inc., New York, N. Y. Photographic contact frame. 2,637,255, May 5.

Pleydell, Rose: *See*—
Pleydell, Albert and R., and McIntyre.

Plotnizky, Andre, New York, N. Y. Cuff link and the like. 2,637,083, May 5.

Plummer, Roy I.: *See*—
Kendall, Thomas L., Bodenhafer, and Plummer.

Pond, Cecil E., assignor to Ecco, Inc., South Bend, Ind. Computing device. 2,637,498, May 5.

Pond, Leander N., assignor to Corning Glass Works, Corning, N. Y. Glass charge distributing apparatus. 2,637,429, May 5.

Portzer, Lloyd B., and W. C. Leitenberger, Cleveland, Ohio. Electrodeposition of nickel. 2,637,687, May 5.

Postans Limited, assignee: *See*—
Arnold, Michael H. M.

Potter Instrument Co., Inc., assignee: *See*—
Moerman, Nathan A.

Potter, Thomas W., Mattoon, Ill., assignor to Journal Box Servicing Corporation, Indianapolis, Ind. Journal box impact head and dust guard structure. 2,637,604, May 5.

Powder Power Tool Corporation, assignee: *See*—
Webber, Charles R., and Erickson.

Powell Announcer Corporation, assignee: *See*—
Smith, Graham P.

Power Jets (Research & Development) Limited, assignee: *See*—
Robson, Arthur R. D., and Johnstone.

Powers, James H., Westport, Conn., assignor to General Electric Company. Permanent lubrication system for vertically mounted bearings. 2,637,605. May 5.

Prather, Edwin E.: *See*—
Long, Richard H., and Prather.

Pratt Read & Co., Inc., assignee: *See*—
Murdock, Paul F.

Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,637,216, May 5.

Price, George W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Transmission line switch. 2,637,787, May 5.

Proctor and Schwartz, Inc., assignee: *See*—
Hurxthal, Alpheus O.

Product Development Laboratories, Inc., assignee: *See*—
Ozols, Karlis V.

Products and Licensing Corporation, assignee: *See*—
Charlin, André M. B.

Products & Licensing Corporation, assignee: *See*—
Touion, Pierre M. G.

Purdue Research Foundation, assignee: *See*—
Lark-Horovitz, Karl, and Whaley.

Purdue-Research Foundation, assignee: *See*—
McBee, Earl T.

Pyle-National Company, The, assignee: *See*—
Heehler, Arthur C., and McDowell.

Radio Corporation of America, assignee: *See*—
Anderson, Leslie J., and Hawley.
Avins, Jack.
Bedford, Alda V.
Braden, Rene A.
Hershberger, William D.
Lund, Frederik C. F. O.
Rogers, Gordon F.
Wendt, Karl R.

Radio Receptor Company, Inc., assignee: *See*—
Tumulo, Gerald.

Ramsey, George H., Tulsa, Okla., assignor to Standard Oil Development Company. Drill stem packer with deflating means. 2,637,401, May 5.

Ramuz, Oscar E.: *See*—
De Vecchis, Ineo, and Ramuz.

Ranger, Arthur W., Brighton, England. Sheet delivery apparatus for printing machines. 2,637,553, May 5.

Rauland Corporation, The, assignee: *See*—
Spindler, Joseph C.

Rawlings, Marshall F.: *See*—
Houston, William L., Jr., and Rawlings.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Combination recording and magnetically operated indicating instrument. 2,637,618, May 5.

Raytheon Manufacturing Company, assignee: *See*—
Stolberg, Sven A.

Reconstruction Finance Corporation, assignee: *See*—
Barnard, Randolph H.

Reed, Robert G., and F. C. Crowley, assignors to John Widdicomb Company, Grand Rapids, Mich. Glue blockmaking machine. 2,637,352, May 5.

Reedall, Harold M., Shaker Heights, Ohio. Congelation apparatus and method. 2,637,177, May 5.

Reifenberg, Karl, assignor to E. Edelmann & Co., Chicago, Ill. Ignition timing light having a replaceable lamp. 2,637,803, May 5.

Reifschneider, Arthur A., Kansas City, Mo. Laundry frame. 2,637,191, May 5.

Reiter, Eileen E., Ada, Ohio. Hair clip for use in giving permanent waves. 2,637,329, May 5.

Republic Steel Corporation, assignee: *See*—
Schottenberg, Elmon A.

Rescsanski, Joseph A., and J. R. Hopkins, assignors to Dictaphone Corporation, Bridgeport, Conn. Stylus-protecting device. 2,637,563, May 5.

Research Products Corporation, assignee: *See*—
Rowe, Carl B.

Reynolds, Roy L., Memphis, Tenn., and S. Campbell, Fordyce, Ark. Adjustable frog. 2,637,143, May 5.

Richardson & Bass, assignee: *See*—
Howard, Kenneth C.

Richman, Donald, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Superregenerative system for receiving angular-velocity-modulated wave signals. 2,637,807, May 5.

Richterkessing, Frank H., Louisville, Ky. Spotting board. 2,637,192, May 5.
Richterkessing, Frank H., Jefferson County, near Louisville, assignor to W. M. Cissell Mfg. Company, Incorporated, Louisville, Ky. Water-spray gun for attachment to pressing irons. 2,637,597, May 5.
Rider, Warren M.: *See*—
Burge, James S., Foust, Shaw, Rider, and McKee.
Rieser, John D., San Francisco, Calif. Adjustable speed transmission. 2,637,215, May 5.
Rifenbergh, C. Morgan, assignee: *See*—
Miller, Kenneth W.
Rippie, Melvin H.: *See*—
Martin, Frank A., and Rippie.
Risher, John D.: *See*—
Stein, Herman W., and Risher.
Ritter, Bert, Detroit, Mich., assignor, by mesne assignments, to McKee Door Company, Aurora, Ill. Overhead door actuator. 2,637,550, May 5.
Roberts, Carl W., Baxter Springs, Kans. Steam finisher fur fabrics. 2,637,125, May 5.
Robinson, Roy C., New York, N. Y. Electric bulb remover. 2,637,587, May 5.
Robson, Arthur R. D., Dogmersfield, near Basingstoke, and A. P. Johnstone, Frimley, assignors to Power Jets (Research & Development) Limited, London, England. Jet spoiling means for aircraft gas turbines. 2,637,164, May 5.
Roethel Engineering Corporation, assignee: *See*—
Roethel, John H.
Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Door lock. 2,637,580, May 5.
Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Door latch. 2,637,581, May 5.
Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Door lock. 2,637,582, May 5.
Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Door lock. 2,637,583, May 5.
Rogers, Gordon F., New Hyde Park, N. Y., assignor to Radio Corporation of America. Centering circuit for cathode-ray tubes. 2,637,832, May 5.
Rogers, Leonard M., Mendon, assignor to Draper Corporation, Hopedale, Mass. Harness cam and treadle means for looms. 2,637,348, May 5.
Roodner, Sylvia, Bronx, N. Y. Slip. 2,637,036, May 5.
Roper, John M., Washington, D. C., and T. O. Twist, Chevy Chase, Md. Lamp socket for instrument panel lighting. 2,637,802, May 5.
Rose, Harry J., assignor to Make-All Tool & Die Co., West Allis, Wis. Arrow releasing device. 2,637,311, May 5.
Rosen, Emanuel, assignee: *See*—
Morrell, Leon A.
Ross, Alfred C., Jackson Heights, N. Y. Angler's fish landing net. 2,637,133, May 5.
Rotary Lift Company, assignee: *See*—
Harrison, John B., and Adams.
Roto-Matic Screen Printer, Ltd., assignee: *See*—
Thomas, John B.
Rotor Tool Company, The, assignee: *See*—
Van Sittert, Paul R.
Rowe, Arthur E., Cleveland, Ohio. Vehicle lift unit for docks. 2,637,454, May 5.
Rowe, Carl B., assignor to Research Products Corporation, Madison, Wis. Gas-liquid contact apparatus. 2,637,540, May 5.
Rubber and Asbestos Corporation, assignee: *See*—
Been, Jerome, and Grover.
Rubin, Alexander, Tel Aviv, Israel. Device for distributing air, gas, or the like in liquids. 2,637,541, May 5.
Rudy, John L., and W. C. Pitts, Memphis, Tenn. Cotton lint conditioning machine. 2,637,075, May 5.
Rue, Albert A.: *See*—
Maxfield, Darel L., and Rue.
Russell, Robert N., Gloversville, N. Y. Composition and method of its application to cotton glove fabric. 2,637,662, May 5.
Rust, John B., East Hanover, N. J., assignor of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Copolymers containing hydrogen bonded directly to silicon. 2,637,718, May 5.
Rust, John D., Memphis, Tenn. Cotton picker spindle moistening apparatus. 2,637,156, May 5.
Ryan, Edmund J., Miami, Fla. Alcoholic beverages and method. 2,637,652, May 5.
Ryan, Edmund J., Miami, Fla. Polymerizing oxygen. 2,637,688, May 5.
Sabin, Eugene R., Kansas City, Mo., B. A. Andrews, Kansas City, Kans., and L. A. Shontz, Jr., assignors to The Vendo Company, Kansas City, Mo. Gum vending machine. 2,637,610, May 5.
Sailer, Norris H.: *See*—
Turner, Edgar P., and Sailer.
St. Regis Paper Company, assignee: *See*—
Clary, George H.
Sakren, Benjamin, Miami, Fla. Removable tooth file. 2,637,097, May 5.
Salkey, Sidney, Bronx, N. Y. Container for crayons and the like. 2,637,299, May 5.
Samson, Rene, Westmount, Quebec, Canada. Fork construction. 2,637,104, May 5.
Samuelson, Robert E.: *See*—
Howard, Roscoe D., and Samuelson.
Sand, John F.: *See*—
Kuehn, Herman, and Sand.
Sandberg, Olger H., assignee: *See*—
Maxfield, Darel L., and Rue.
Sandoz, A. G., assignee: *See*—
Peter, Albin, and Günthart.
Santay Corporation, assignee: *See*—
Wood, James E.
Saunders, William G.: *See*—
Johnson, Louis W., and Saunders.
Sawyer, James G., Williamsville, N. Y. Blower. 2,637,487, May 5.
Schaeffer, Hans A.: *See*—
Gaunt, William E., Bartner, and Schaeffer.
Scheer, Max M.: *See*—
Gund, Konrad, Berger, Scheer, and Schittenhelm.
Scheidorf, Marvel W., Palos Heights, assignor to Andrew Corporation, Chicago, Ill. Multi-V FM antenna. 2,637,533, May 5.
Schenk, Peter, South Ozone Park, N. Y. Electrical heating element. 2,637,797, May 5.
Schering International Research Institute, assignee: *See*—
Schwenk, Erwin, and Papa.
Schiller, Arthur M.: *See*—
Suen, Tzeng J., and Schiller.
Schittenhelm, Rudolf: *See*—
Gund, Konrad, Berger, Scheer, and Schittenhelm.
Schloss, Morris, Bronx, N. Y. Rotary buff. 2,637,149, May 5.
Schmid, Max, Riehen, and E. Moser, assignors to Ciba Limited, Basel, Switzerland. Manufacture of pyrazolones. 2,637,732, May 5.
Schmidt, Edwin X., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Method of and apparatus for mixing combustible gases. 2,637,638, May 5.
Schmidt, Lewis W., and H. V. Lea, Rio Vista, Calif. Beet harvester for wheel-type tractors. 2,637,155, May 5.
Schmitz, Albert A., Racine, Wis. Two-row implement. 2,637,263, May 5.
Schneider, Helmuth G., Westfield, and P. W. Brakeley, Jr., Plainfield, N. J., assignors to Standard Oil Development Company. Polymerizing isobutylene in the presence of N-butenes and ether. 2,637,720, May 5.
Schoenster, Peter J., Teaneck, assignor to Alfred Hofmann & Co., West New York, N. J. Warp tension bar for knitting machines. 2,637,184, May 5.
Schonrock, Edwin A., San Angelo, Tex. Lifting device for dump trailers. 2,637,593, May 5.
Schopp, Otto, Phoenix, Ariz., assignor of one-half to G. L. Sims. Tube bending pliers. 2,637,231, May 5.
Schottenberg, Elmon A., Youngstown, assignor, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Louver window and operating mechanism. 2,637,547, May 5.
Schramm, Abert O., La Crescenta, Calif. System of cooling dwellings. 2,637,181, May 5.
Schulz, Carl G., Altadena, and A. S. Kedzie, Los Angeles, Calif. Suction cup and mounting. 2,637,589, May 5.
Schumacher, Frank A., Erie, Pa., assignor to General Electric Company. Refrigerating system for multiple-compartment refrigerators. 2,637,176, May 5.
Schwartz, Daniel M., assignor to The Elmco Corporation, Salt Lake City, Utah. Rotary pan filter. 2,637,443, May 5.
Schweda, Albert M.: *See*—
Wallenberg, Ned L., and Schweda.
Schwenk, Erwin, Montclair, N. J., and D. Papa, Brooklyn, N. Y., assignors, by mesne assignments, to Schering International Research Institute, Bloomfield, N. J. Halogenated aryl alicyclic carboxylic acids and their salts and manufacturing the same. 2,637,745, May 5.
Schwenzer, George A., assignee: *See*—
Culver, Harry D.
Scott, Ben A.: *See*—
McKinley, John K., Scott, Goff, and Nelson.
Scott, John M., assignor to Star Engraving Company, Houston, Tex. Ring dressing device. 2,637,146, May 5.
Sealed Power Corporation, assignee: *See*—
Olson, Holly M.
Seaver, Fred H., Jackson, Miss., and R. J. Britt, Delavan, Wis. Lock system for automobiles. 2,637,196, May 5.
Sedgwick Furniture Corp., assignee: *See*—
Pine, Julius.
Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Posting tray. 2,637,324, May 5.
Sellet, Lucien: *See*—
Dawson, William O., and Sellet.
Serge Elevator Co., Inc., assignee: *See*—
Mignocchi, Serge.
Shanklin, John P., assignor to Collins Radio Co., Cedar Rapids, Iowa. Combination localizer and swamping antenna. 2,637,815, May 5.
Shannon, Jack F., Euclid, Ohio, assignor to Bailey Meter Company. Fluid pressure control. 2,637,342, May 5.
Shannon, John K., Kenosha, Wis. Storage battery. 2,637,758, May 5.
Shannon, John K., Kenosha, Wis. Storage battery cell cover and construction. 2,637,759, May 5.
Shapiro, David H., Montreal, Quebec, Canada. Folded blank box. 2,637,483, May 5.

Shapiro, Zalman M., Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for attaching filaments to electrodes in machines for coating with metal vapors. 2,637,207, May 5.
Shapiro, Zalman M., Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for attaching filaments to electrodes in machines for coating with metal vapors. 2,637,298, May 5.
Sharkey, Arthur J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Treatment of electric lamp envelopes. 2,637,830, May 5.
Sharples Chemicals Inc., assignee: *See*—
Tischler, Nathaniel.
Tischler, Nathaniel, and Bell.
Sharples Corporation, The, assignee: *See*—
Fitzsimmons, Harold C.
Shaver, Edgar G., Marianna, Ark. Mounting means for cotton choppers. 2,637,154, May 5.
Shaw, Robert E., Marblehead, and S. C. Peck, Jr., assignors to Sylvania Electric Products Inc., Salem, Mass. Oven construction. 2,637,754, May 5.
Shaw, Willard C.: *See*—
Burge, James S., Foust, Shaw, Rider, and McKee.
Shawinigan Chemicals Limited, assignee: *See*—
Germain, Leo M.
Sheffield Corporation, The, assignee: *See*—
Adkins, Earl C.
Shell Development Company, assignee: *See*—
Peterson, Walter H., and Skel.
Walters, Ernest L.
Shellmar Products Corporation, assignee: *See*—
Cox, John W.
Fahey, Edward W.
Shively, James L.: *See*—
Cox, Mace A., and Shively.
Shontz, Loran A., Jr.: *See*—
Sabin, Eugene R., Andrews, and Shontz.
Shook, Ross O. S., Hutchinson, Kans. Knee guard or brace. 2,637,575, May 5.
Short, Brooks H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Apparatus for testing dynamoelectric machines. 2,637,204, May 5.
Shuttleworth, Charles A., Warren, Ind. Container handling conveyer. 2,637,433, May 5.
Sifferd, Robert H., Joliet, assignor to Armour and Company, Chicago, Ill. Recovery of cerebrosides. 2,637,726, May 5.
Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Multiple needle stitching mechanism. 2,637,290, May 5.
Silson, Jack, assignee: *See*—
Cowan, Morris.
Silson, Victor, assignee: *See*—
Cowan, Morris.
Silson, Victor, Co., assignee: *See*—
Cowan, Morris.
Silver, Walter H., and R. E. Cox, assignors to Deere & Company, Moline, Ill. Disk plow and steering mechanism therefor. 2,637,258, May 5.
Silver, Walter H., and R. E. Cox, assignors to Deere & Company, Moline, Ill. Tractor mounted plow. 2,637,260, May 5.
Simonds Saw and Steel Company, assignee: *See*—
Pavitt, Harry A.
Simos, Nickolas A., Toledo, Ohio. Article display case. 2,637,614, May 5.
Simpson, Glen C., assignee: *See*—
Hester, Harry W.
Sima, George L., assignee: *See*—
Schopp, Otto.
Singer Manufacturing Company, The, assignee: *See*—
Turner, Edgar P., and Sailer.
Singleton, John C., Jr.: *See*—
Gilg, Frank X., and Singleton.
Singleton, William W., assignor to Trail-A-Boat Company, Pontiac, Mich. Detachable wheel unit for transporting boats. 2,637,567, May 5.
Sivak, William, assignee: *See*—
Winch, Ronald.
Skarin, Richard C.: *See*—
Klein, Chris, Skarin, and Tinker.
Skates, Charles D., and L. I. Skates, Roseburg, Oreg. Stake pointer. 2,637,356, May 5.
Skates, Lucky I.: *See*—
Skates, Charles D., and L. I.
Skel, Thurston: *See*—
Peterson, Walter H., and Skel.
Skelton, William E.: *See*—
Arnold, George B., Hess, and Skelton.
Skrotzki, Frederick H., Brooklyn, N. Y., assignor to National Inventions Corporation. Lighting system and apparatus. 2,637,833, May 5.
Smalley, Harold B.: *See*—
Warner, Ralph, and Smalley.
Smith, Alexander, Incorporated, assignee: *See*—
Mersereau, Emory P.
Smith, Charles D. J., assignee: *See*—
Cooke, Robert L.
Smith, Frederick M., Bartlesville, Okla., and R. S. Hanmer, Borger, Tex., assignors to Phillips Petroleum Company. Production of monoalkyl aromatic hydrocarbons. 2,637,750, May 5.
Smith, Graham P., assignor to Powell Announcer Corporation, Chicago, Ill. Sound reproducing device using endless recording tapes. 2,637,560, May 5.
Smith, Leonard C., Berea, Ohio. Remotely controlled and indicating probe actuation. 2,637,842, May 5.
Smith, Hosa B., Baltimore, Md. Collar protector. 2,637,034, May 5.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Washing machine with a rotatable tub and a concentric basket. 2,637,187, May 5.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Tub assembly for washing machines. 2,637,188, May 5.
Smith, Wilbur R.: *See*—
Woodside, Charles E., Smith, Woodside, and Armstrong.
Sobieski, Alex A.: *See*—
Gruss, George A., and Sobieski.
Societe de Technique Industrielle, assignee: *See*—
Petit, Daniel.
Somerset Machine & Tool Co., Inc., assignee: *See*—
Vergnani, Evo, S. E., and M. H.
Soundscriber Corporation, The, assignee: *See*—
Balmer, Donald F.
Stone, Robert L.
Spangler, Merlin G., and T. Y. Chu, assignors to Iowa State College Research Foundation, Inc., Ames, Iowa. Method of and apparatus for testing asphaltic concrete. 2,637,198, May 5.
Spangler, Walter L., assignor to B-W Manufacturers, Inc., Kokomo, Ind. Towel bar. 2,637,446, May 5.
Specialties Development Corporation, assignee: *See*—
Miller, Louis P.
Speddine, Raymond T., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Spray unit for tractors. 2,637,594, May 5.
Sperry, Albert F., assignor to Panellit, Inc., Chicago, Ill. Integrator. 2,637,496, May 5.
Sperry Corporation, The, assignee: *See*—
Bamford, Arthur P.
Spiess, Francis J., Rochester, N. Y., assignor to Kleckhefer Container Company, Camden, N. J. Glued flap box folding machine. 2,637,251, May 5.
Spiller, William R., and L. L. West, Dayton, assignors to Harris-Seybold Company, Cleveland, Ohio. Paper drill. 2,637,396, May 5.
Spindler, Joseph C., assignor to The Rauland Corporation, Chicago, Ill. Coupling for frequency modulation discriminators. 2,637,809, May 5.
Sprague Electric Company, assignee: *See*—
Kidama, George T.
Sproule, Lorne W.: *See*—
Dixon, Thomas W., and Sproule.
Staartjes, Johannes, Amsterdam, assignor to Bruynzeel's Deurenfabriek N. V. of Pieter Ghijsenlaan, Zaandam, Netherlands. Furniture. 2,637,045, May 5.
Staggs, Allen B., Henrietta, Tex. Portable tool heater. 2,637,315, May 5.
Stahl, William F., Kenilworth, Ill. Preparation of impregnated laminated tubes. 2,637,674, May 5.
Standard Brands Incorporated, assignee: *See*—
Kothe, Herbert J.
Standard Cabinet Manufacturing Company, Inc., assignee: *See*—
Theobald, Wilbert E.
Standard Container, Inc., assignee: *See*—
Vogel, William M., Jr.
Standard Oil Company, assignee: *See*—
Bragg, Charles E.
Dinerstein, Robert A.
Standard Oil Company, The, assignee: *See*—
Frazier, David.
Standard Oil Development Company, assignee: *See*—
Bartlett, Jeffrey H.
Dixon, Thomas W., and Sproule.
Kirshenbaum, Abraham D., and Boyle.
Lewis, Warren K.
Merz, Richard E.
Mikeska, Louis A.
Norman, James S., Jr.
Ortloff, John E.
Parker, Paul T.
Ramsey, George H.
Schneider, Helmuth G., and Brakeley.
Tutwiler, Thomas S.
Stanius, Godfrey, assignor to Acme Steel Company, Chicago, Ill. Coil unreeler. 2,637,509, May 5.
Stanley, Paul H., Huntingdon Valley, assignor to Autogiro Company of America, Philadelphia, Pa. Lightweight structure for aircraft sustaining rotor blades. 2,637,405, May 5.
Star Engraving Company, assignee: *See*—
Scott, John M.
Starkey, Neal E., Schenectady, N. Y., assignor to General Electric Company. Fluid pressure servo mechanism. 2,637,334, May 5.
Steel Products Engineering Company, The, assignee: *See*—
Getz, Delmond L.

Steere, Frank W., Waterford Township, Oakland County, Mich. Treating foliage corps and the like. 2,637,121, May 5.

Stegeman, Henry J., Fairfield, assignor to The Locke Steel Chain Company, Bridgeport, Conn. Gauge roll for lawn mowers. 2,637,157, May 5.

Stein, Herman W., Canton, and J. D. Risher, assignors to The Hoover Company, North Canton, Ohio. Forming commutators. 2,637,098, May 5.

Stein, Irving M., assignor to Leeds and Northrup Company, Philadelphia, Pa. Multirange recorder indicator. 2,637,619, May 5.

Steiner, Harold J.: *See*—
Meyer, Edward N., and Steiner.

Stewart, Virgil F., East Cleveland, Ohio. Fluid controlled transmission. 2,637,219, May 5.

Stewart-Warner Corporation, assignee: *See*—
Dinkelkamp, Henry T.

Stockinger, Paul P., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine over temperature fuel control mechanism. 2,637,165, May 5.

Stockton, Ray F.: *See*—
Wire Products Co. Inc., assignee: *See*—
Stockton, Raymond F.

Stockton, Raymond F., Sunland, assignor to Ray F. Stockton Wire Products Co. Inc., Burbank Calif. Wire fabric bending and feeding apparatus. 2,637,365, May 5.

Stokes, Philip H., Tettenhall, A. A. Avenell, Wolverhampton, and P. Mitchell, Shifnal, Salop, assignors to H. M. Hobson Limited, London, England. Fuel supply system. 2,637,273, May 5.

Stoiberg, Sven A., Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Automatic phonograph. 2,637,559, May 5.

Stone, Robert L., Lake Worth, Fla., assignor to The Soundscriber Corporation, New Haven, Conn. Optical log system. 2,637,557, May 5.

Stotter, Alfred B., Cleveland Heights, assignor to Transparent Specialties Corporation, Cleveland, Ohio. Receptacle for bakery products. 2,637,617, May 5.

Straley, James M., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Ethylene-bridged dibenzanthrone compounds and their preparation. 2,637,733, May 5.

Strang, Samuel B., administrator: *See*—
Holmes, Ernest W., and E. W. Holmes, Jr.

Stratman, John E., Holdrege, Nebr. Implement lift. 2,637,564, May 5.

Strauss, Ober G., Washington, D. C. Planting machine. 2,637,287, May 5.

Stromberg-Carlson Company, assignee: *See*—
Herrick, Malcolm P.

Strunk, Edward, Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for stripping fluid-type catalysts. 2,637,633, May 5.

Studebaker Corporation, The, assignee: *See*—
Churchill, Harold E.

Suen, Tzeng J., and A. M. Schiller, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Modifiers for synthetic resin molding compositions and producing the same. 2,637,713, May 5.

Sullivan, Timothy J., assignor to Sullivan Valve and Engineering Company, Butte, Mont. Safety cutoff valve. 2,637 331, May 5.

Sullivan Valve and Engineering Company, assignee: *See*—
Sullivan, Timothy J.

Sunbeam Corporation, assignee: *See*—
Browning, George.

Sun Oil Company, assignee: *See*—
Jolly, Samuel E.

Sutherland Paper Company, assignee: *See*—
Buttery, Kenneth T.

Sutton, Otis B., and W. A. Humphrey, Canton, assignors to The Hoover Company, North Canton, Ohio. Suction nozzle with removable wand and illuminating means. 2,637,062, May 5.

Swanson, Ziegner, De Kalb, Ill. Embouchure arch. 2,637,239, May 5.

Swenson, Henry F., West Orange, N. J. Clamp. 2,637,249, May 5.

Swisher, Robert E., assignor to R. E. Swisher, C. C. Cockrell, and E. L. Cossairt, Kansas City, Mo. Box assembly machine. 2,637 252, May 5.

Sylvania Electric Products Inc., assignee: *See*—
Gardner, Roland M., Gartner, and Barrett.
Sharkey, Arthur J.
Shaw, Robert E., and Peek.

Talamini, Arthur J., Jr., Caldwell Township, Essex County, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Square wave voltage calibrator. 2,637,816, May 5.

Talbot, Frank, and R. T. Foster, Widnes, England, assignors to Imperial Chemical Industries Limited. 2-methylchlorophenoxyacetate herbicides. 2,637,639, May 5.

Tandler, William S., and D. S. Walker, assignors to Vendomatic Machine Corporation, New York N. Y. Device for dispensing sandwiches and the like. 2,637,011, May 5.

Tapp, Harry F., Longmeadow, and R. M. Cochrane, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fuel supply control for air-atomizing oil burners. 2,637,375, May 5.

Tappan Stove Company, The, assignee: *See*—
Mayer, Charles M.

Tappan Stove Company, The, assignee: *See*—
Mayer, Charles M., and Hoff.
Mayer, Charles M., Perl, and Warner.
Perl, Richard L., and Hoff.

Taylor, Donald S., Monrovia, Calif., assignor, by mesne assignments, to Borax Consolidated, Limited, London, England. Production and separation of anhydrous alkali metal sulfate and boric acid. 2,637,626, May 5.

Taylor Instrument Companies, assignee: *See*—
Davidson, James R.

Taylor, James, and A. C. Hutchison, Saltcoats, Scotland, and I. Fageikton, London, England, said Taylor and said Hutchison assignors to Imperial Chemical Industries Limited. Power-gas generating device. 2,637,274, May 5.

Taylor, Joseph C., St. Louis, Mo., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Automatic transmission. 2,637,217, May 5.

Taylor, William H., Homestead, Fla., assignor of one-half to A. W. Hughes, Milwaukee, Wis. Meat chopping method and apparatus utilizing a centrifugally positioned knife within a rotating and foraminous basket. 2,637,359, May 5.

Taylor, William H., Jr., Dedham, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fan. 2,637,486, May 5.

Taylor, William T., Marks, Miss. Means for converting liquid fuel. 2,637,173, May 5.

Teale, Benjamin E., Dalton, Mass. Papermaking apparatus. 2,637,250, May 5.

Teltelbaum, Albert, Los Angeles, Calif. Garment construction. 2,637,039, May 5.

Terreson, James H., Pascagoula, Miss. Mechanical hobby-horse. 2,637,554, May 5.

Texas Company, The, assignee: *See*—
Arnold, George R., Hess, and Skelton.

Texas Company, The, assignee: *See*—
McKinley, John K., Scott, Goff, and Nelson.

Textile Machine Works, assignee: *See*—
Bitzer, Gottlob, Pingel, and Fegley.

Theobald, Wilbert E., assignor to Standard Cabinet Manufacturing Company, Inc., Peru, Ind. Cabinet. 2,637,615, May 5.

Thomas, Harry A., Baldton, Del., assignor to Baldwin-Lima-Hamilton Corporation. Engine manifold. 2,637,160, May 5.

Thomas, John B., Watertown, Conn., assignor to Roto-Matic Screen Printer, Ltd., New York, N. Y. Stencil printing apparatus. 2,637,269, May 5.

Thompson, Ellis W., assignee: *See*—
Daigle, Bert J.

Thompson, Jacqueline E., administratrix: *See*—
Thompson, Ralph L.

Thompson Products, Inc., assignee: *See*—
Booth, James H., and Gair.

Thompson, Ralph L., deceased, New Hyde Park, N. Y.; J. E. Thompson, administratrix. Operator identifier transmitter. 2,637,844, May 5.

Thoresen, Henry L.: *See*—
Thoresen, Lorntz H. and H. L.

Thoresen, Lorntz H. and H. L., Chicago, Ill. Fluid proportioning and conditioning apparatus. 2,637,310, May 5.

Threewit, Donald M., Inglewood, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Elbow lock and alternator for actuating the same. 2,637,042, May 5.

Throckmorton, John W.: *See*—
Wallis, John S., and Throckmorton.

Thurston, Jack T., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Sulfosuccinic acid polyesters of fatty acid monoglycerides. 2,637,663, May 5.

Tilly, James O., Tulsa, Okla. Check booklet. 2,637,571, May 5.

Tingvatne, Arthur, Kristiansand, Norway. Device for connecting a member to the end portion of a spindle or the like. 2,637,148, May 5.

Tinker, William G.: *See*—
Klein, Chris, Skarin, and Tinker.

Tinnerman, George A., and L. H. Flora, assignors to Tinnerman Products, Inc., Cleveland, Ohio. Tool for applying sheet metal fasteners to studs. 2,637,230, May 5.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A., and Flora.

Tischler, Nathaniel, Palmyra, N. J., assignor to Sharples Chemicals Inc. Plant growth regulation. 2,637,640, May 5.

Tischler, Nathaniel, Palmyra, N. J., assignor to Sharples Chemicals Inc. Plant growth regulation. 2,637,641, May 5.

Tischler, Nathaniel, Palmyra, N. J., assignor to Sharples Chemicals Inc. Plant response agents. 2,637,642, May 5.

Tischler, Nathaniel, Palmyra, N. J., assignor to Sharples Chemicals Inc. Plant response agents. 2,637,643, May 5.

Tischler, Nathaniel, Palmyra, N. J., and E. P. Bell, Detroit, Mich., assignors to Sharples Chemicals Inc. Plant growth regulation. 2,637,644, May 5.

Tischler, Nathaniel, Palmyra, N. J., and E. P. Bell, Detroit, Mich., assignors to Sharples Chemicals Inc. Plant growth regulation. 2,637,645, May 5.

Titan Tool Company, assignee: *See*—
McKean, Boyd A.

Todd, Max E.: *See*—
Nichols, Charles A., Todd, Fletcher, and Keller.

Toulon, Pierre M. G., Paris, France, assignor to Products & Licensing Corporation, New York, N. Y. Industrial system of voltage rectification by means of rectifying tubes provided with a control grid. 2,637,837, May 5.

Trad, Victor, Asbury Park, N. J. Projection tube with movable target electrode. 2,637,829, May 5.

Trail-A-Boat Company, assignee: *See*—
Singleton, William W.

Transparent Specialties Corporation, assignee: *See*—
Stotter, Alfred B.

Transport Apparatus and Device Company, assignee: *See*—
Fulton, Joel B.

Tri-State Plastic Molding Co., assignee: *See*—
Yates, Cyril J.

Troche, Herman J., Cleveland Heights, and J. H. Holan, Rocky River, assignors to J. H. Holan Corporation, Cleveland, Ohio. Locking-bolt operating structure. 2,637,585, May 5.

Troendle, Jean, Geneva, Switzerland. Shutoff valve. 2,637,338, May 5.

Tschinkel, Johann G., Fort Bliss, Tex., assignor to the United States of America as represented by the Secretary of the Army. Ignition for rockets and the like. 2,637,161, May 5.

Tucker, Frank P., assignor, by mesne assignments, to Brogdex Company, Pomona, Calif. Filling and holding device for containers. 2,637,477, May 5.

Tumulo, Gerald, Bryn Mawr, assignor to Radio Receptor Company, Inc., Brooklyn, N. Y. Rectifier. 2,637,771, May 5.

Turco Products, Inc., assignee: *See*—
Brown, Keith E., Clark, and Jackson.

Turner, Edgar P., Fanwood, and N. H. Saller, Union, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Disposable dust bag for vacuum cleaners. 2,637,409, May 5.

Turner, Guy M., Greensboro, N. C. Tandem suspension for tractors and trailers. 2,637,569, May 5.

Tutwiler, Thomas S., Elizabeth, N. J., assignor to Standard Oil Development Company. Mineral oil lubricating composition containing a copolymer of an alkyl ester of itaconic acid and an alkyl acrylate or methacrylate. 2,637,698, May 5.

Twist, Thomas O.: *See*—
Roper, John M., and Twist.

Udy, Marvin J., Niagara Falls, N. Y. Production of ferrosilicon. 2,637,648, May 5.

Union Carbide and Carbon Corporation, assignee: *See*—
Binder, William O.
Wagner, George H.

Union Oil Company of California, assignee: *See*—
Atkins, Earle R., Jr.
Nahin, Paul G.

Union Special Machine Company, assignee: *See*—
Wallenberg, Ned L., and Schweda.

Union Starch & Refining Company, assignee: *See*—
Cleland, James E., and Longnecker.

United Aircraft Corporation, assignee: *See*—
Wallace, Rudolf N.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.

United Shoe Machinery Corporation, assignee: *See*—
Butler, Ernest L.
McIlvin, Donald B., and Abbott.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
De Ment, Jack.
Shapiro, Zalman M.

United States Rubber Company, assignee: *See*—
Briscoe, William F. R., and Berry.

Universal Oil Products Company, assignee: *See*—
Kassel, Louis S.

Universal Wire Spring Company, The, assignee: *See*—
Neely, William H.

University of Oklahoma Research Institute, assignee: *See*—
Burwell, Albert L.

Upjohn Company, The, assignee: *See*—
Ott, Arnold C., and Murray.

Upton, Wilson V., assignor to National Starch Products, Inc., New York, N. Y. Copolymers of vinyl acetate with derivatives of alpha, beta-unsaturated dicarboxylic acids. 2,637,712, May 5.

Valentini, Luciano, Turin, Italy. Manufacturing leather substitute. 2,637,752, May 5.

Valley, George E., Jr., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Recording plan position indicator. 2,637,846, May 5.

Vanderbilt, R. T., Company, Inc., assignee: *See*—
Brooks, Lester A.

Van Llempt, Johannes A. M., Eindhoven, Netherlands, assignor to Corporacion de Ventas de Salitre y Yodo de Chile, Valparaiso, Chile. Flashlamp. 2,637,185, May 5.

Van Sittert, Paul R., Shaker Heights, Ohio, assignor to The Rotor Tool Company. Air hammer construction. 2,637,300, May 5.

Van Sittert, Paul R., Shaker Heights, Ohio, assignor to The Rotor Tool Company. Impact type clutch. 2,637,426, May 5.

Van Vliet, Paul D.: *See*—
Galazzi, Joseph A., Jordan, and Van Vliet.

Vaughan, James R., Jr., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Imidazopyridines. 2,637,731, May 5.

Vendo Company, The, assignee: *See*—
Sabin, Eugene R., Andrews, and Shontz.

Vasey, Charles H.: *See*—
Boon, William R., Greenhaigh, London, and Vasey.

Vendomatic Machine Corporation, assignee: *See*—
Tandler, William S., and Walker.

Ventura Tool Company, assignee: *See*—
Williams, William J., and Hanes.

Vergnani, Evo, S. E., and M. H., Somerville, assignors to Somerset Machine & Tool Co., Inc., Boston, Mass. Liner for the jaw faces of pipe wrenches. 2,637,286, May 5.

Vergnani, Milton H.: *See*—
Vergnani, Evo, S. E., and M. H.

Vergnani, Stanley E.: *See*—
Vergnani, Evo, S. E., and M. H.

Victor Manufacturing & Gasket Co., assignee: *See*—
Diehl, Karl L.

Viesturs, Erichs A., York, Pa. Adjustable and movable sundial. 2,637,108, May 5.

Vizza, Nathan P., Michigan City, Ind. Barber chair. 2,637,370, May 5.

Vogel, William M., Jr., Mendham, assignor to Standard Container, Inc., Rockaway, N. J. Container and closure therefor. 2,637,464, May 5.

Volgtlander & Sohn Aktiengesellschaft, assignee: *See*—
Faulhaber, Fritz.
Noack, Walter, and Naumann.

Vosbikian, Peter S. and T. S., Melrose, Pa. Flexible mop with flexible back carrying absorbent material with hinged cover plates. 2,637,059, May 5.

Vosbikian, Thomas S.: *See*—
Vosbikian, Peter S., and T. S.

Vossler, Henry, assignor to Imperial Knife Company, Inc., Providence, R. I. Knife. 2,637,102, May 5.

Wagner, George H., Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Reaction of silanes with aliphatic unsaturated compounds. 2,637,738, May 5.

Walco, Inc., assignee: *See*—
Wallace, David A.

Wale, Herbert E., Retsil, Wash. Attachment for garden rakes. 2,637,261, May 5.

Walker, Alec H. B., assignor to Westinghouse Brake and Signal Company, Limited, London, England. Means for suppressing arcing at contacts breaking a direct current inductive circuit. 2,637,769, May 5.

Walker, David S.: *See*—
Tandler, William S., and Walker.

Wallace, David A., Grosse Pointe Farms, assignor to Walco, Inc., Detroit, Mich. Vehicle hoisting apparatus. 2,637,522, May 5.

Wallace, Rudolf N., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Propeller spinner construction with boundary layer control. 2,637,403, May 5.

Wallen, Jarvis A., Seattle, Wash., assignor to Boeing Airplane Company. Aircraft tank arrangement. 2,637,513, May 5.

Wallenberg, Ned L., and A. M. Schweda, assignors to Union Special Machine Company, Chicago, Ill. Overedge sewing machine construction. 2,637,291, May 5.

Wallis, John S., and J. W. Throckmorton, assignors to Petro-Chem Process Company, Inc., New York, N. Y. Forced downward air flow air-heating furnace. 2,637,314, May 5.

Walsh, Richard J., Havertown, Pa. Holder for infants' nursing bottles. 2,637,515, May 5.

Walters, Ernest L., assignor to Shell Development Company, San Francisco, Calif. Color stabilizers. 2,637,636, May 5.

Walther, Howard T., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Injection molding. 2,637,073, May 5.

Warner, Elmer L.: *See*—
Mayer, Charles M., Perl, and Warner.

Warner, Ralph, and H. R. Smalley, Bloomington, Ill. Releasing mechanism for use in paper carton vending apparatus. 2,637,612, May 5.

Wasley, Roy E., assignor of one-third to R. L. Burke and one-third to M. R. Chirgwin, Portland, Oreg. Machine for forming arcuate contours. 2,637,145, May 5.

Waterloo Foundry Company, assignee: *See*—
Harmon, Cline H.

Watson, George F., assignor to The Christensen Machine Company, Racine, Wis. Magnetic calipering device. 2,637,115, May 5.

Watson, George F., assignor to The Christensen Machine Company, Racine, Wis. Magnetic caliper for sheet material handling apparatus. 2,637,552, May 5.

Watson, Thomas J., New Canaan, Conn., and S. Brand, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Record punching machine and recording machine control by said punched record. 2,637,398, May 5.

Weatherhead Company, The, assignee: *See*—
Campbell, John F.

Webber, Charles R., and V. R. Erickson, assignors to Powder Power Tool Corporation, Portland, Oreg. Stud for explosive installations. 2,637,241, May 5.

Webster, Roderick, assignor to The Hydro-Blast Corporation, Chicago, Ill. Apparatus for cleaning granular material. 2,637,330, May 5.

Weeks, William L., Shawaville, Va. Map holder. 2,637,128, May 5.

Weinstein, Edith K., assignee: *See*—
Ellistnn, Mary W.

Wekerle, Adam, St. Louis, Mo. Tooth paste dispenser. 2,637,468, May 5.

Welch Allyn, Inc., assignee: *See*—
Martin, Hayes.

Welk, Nelson S., assignor to The McBee Company, Athens, Ohio. Gang punch. 2,637,397, May 5.

Wendt, Karl R., Hightstown, N. J., assignor to Radio Corporation of America. Keyed automatic gain control. 2,637,772, May 5.

Wendt, Robert H., assignee: *See*—
Hester, Harry W.

West, Lloyd L.: *See*—
Spiller, William R., and West.

Western Union Telegraph Company, The, assignee: *See*—
Wilder, Harold F.

Westinghouse Air Brake Company, assignee: *See*—
Bent, Arthur J.
Borst, Douglas R.
Eisenberg, Irwin M.
Gorman, Andrew T.
Meier, William F.

Westinghouse Brake and Signal Company, Limited, assignee: *See*—
Walker, Alec H. B.

Westinghouse Electric Corporation, assignee: *See*—
Boyer, John L., and Albert.
Brown, Charles R., and Leedecke.
Losco, Ezekiel F., and Hull.
Lunas, Lawrence J.
Taylor, William H., Jr.
Young, Douglass A.

Wettstein, Albert, and C. Meystre, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation of steroid-17-carboxylic acids. 2,637,735, May 5.

Whaley, Randall M.: *See*—
Lark-Horovitz, Karl, and Whaley.

White, Calvin J., Brimley, Mich. Adjustable grill. 2,637,313, May 5.

Whiting Corporation, assignee: *See*—
Holmes, Louis D.

Wickman, George E., Westport, and W. R. Young, Fairfield, Conn., assignors to General Electric Company. Stapling machine with guiding element. 2,637,030, May 5.

Wico Electric Company, assignee: *See*—
Guernsey, Olen A., and Green.

Widdicomb, John, Company, assignee: *See*—
Reed, Robert C., and Crowley.

Wiebe, Albert, Brooklyn, N. Y. Razor blade gauge and method. 2,637,116, May 5.

Wiessner, Robert, Vienna, Austria, assignor to A. Dubsky, Elmhurst, N. Y. Safety lock for lighter lids. 2,637,577, May 5.

Wilder, Harold F., Wyckoff, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Means for increasing the telegraph signaling speed of submarine telegraph cables. 2,637,784, May 5.

Wilhelmi, Heinz: *See*—
Huvendick, Karl, and Wilhelmi.

Wilke, Milton E.: *See*—
Coleman, Joseph J., and Wilke.

Wilke, Milton E., assignor to Burgess Battery Company, Freeport, Ill. Deferred action battery. 2,637,757, May 5.

Willetta, John R., Milwaukee, Wis., assignor to Artcraft Manufacturing Co., Cambridge, Mass. Combined seat and cover. 2,637,373, May 5.

Williams, Ollin W.: *See*—
Brown, Luther E., and Williams.

Williams, William J., and J. W. E. Hanes, assignors to Ventura Tool Company, Ventura, Calif. Core for molds. 2,637,071, May 5.

Willis, William L., Pruden, Tenn. Sight string. 2,637,109, May 5.

Willoughby, John T.: *See*—
Demarest, Charles W., and Willoughby.

Wilmot, Charles M., and J. N. Mansour, Totton, England. Reaction-propelled model airplane, vehicle or boat and motor therefor. 2,637,162, May 5.

Wilson-Jones Company, assignee: *See*—
Marano, Herbert W.
Segal, Samuel.

Winch, Ronald, assignor of one-third to W. Sivak, and one-third to R. Wunsch, Winnipeg, Manitoba, Canada. Taximeter. 2,637,492, May 5.

Wingfoot Corporation, assignee: *See*—
Gehman, Samuel D.

Winterfeldt, Arthur F., Montgomery County, Md. Calculating instrument. 2,637,499, May 5.

Winther, Martin P., Gates Mills, assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio. Band brake. 2,637,415, May 5.

Wisconsin Alumni Research Foundation, assignee: *See*—
Gaithe, Leon D.

Wisliceenus, George F., Toledo, Ohio, and P. C. Zumbusch, Upper Montclair, N. J., assignors to Worthington Corporation. Vane generating machine. 2,637,248, May 5.

Wittenmyer, Carlos, Lebanon, Ohio. Automatic printing apparatus for calculating machines. 2,637,493, May 5.

Witz, Phillip, Denison, Tex. Loose-leaf binder. 2,637,326, May 5.

Wolcott, Harold, Burlingame, Calif. Vented fluid dispensing container. 2,637,470, May 5.

Wolf, Jacques, & Co., assignee: *See*—
Dawson, William O., and Sellet.

Wolf, Michael J., and A. F. Fitton, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Apparatus for conducting histochemical reactions. 2,637,632, May 5.

Wolfard, Merl R., Cambridge, Mass. Stabilized beam construction. 2,637,421, May 5.

Wolk, Joseph, Trumbull, Conn. Glare shield for rear vision automobile mirrors. 2,637,246, May 5.

Woock, Herbert J., Arcadia, Calif. Tapping machine. 2,637,052, May 5.

Wood, James E., assignor to Santay Corporation, Chicago, Ill. Plug type lighter. 2,637,799, May 5.

Woodman, Frank W., Maplewood, La., assignor to Columbia-Southern Chemical Corporation. Package. 2,637,441, May 5.

Woodside, Albert L.: *See*—
Woodside, Charles E., Smith, Woodside, and Armstrong.

Woodside, Charles E., Spokane, and W. R. Smith, Colfax, Wash., A. L. Woodside, Butte, Mont., and Z. A. Armstrong, Spokane, Wash. Electric outlet socket. 2,637,790, May 5.

Woodworth, Charles H., Binghamton, N. Y. Metal strap tire chain. 2,637,364, May 5.

Worthington Corporation, assignee: *See*—
Wisliceenus, George F., and Zumbusch.

Wright, Dallas E.: *See*—
Cordrey, Richard N., and Wright.

Wright, Donald C., St. Petersburg, Fla. Pocket marking pen. 2,637,466, May 5.

Wunsch, Richard, assignee: *See*—
Winch, Ronald.

Yadoff, Oleg, assignor to Electronatom Corporation, New York, N. Y. Method and apparatus for treating fluid medium. 2,637,408, May 5.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Lock, Frank.

Yarmak, Julius, Wakefield, England. Kerf-boring machine for mining coal and like minerals. 2,637,542, May 5.

Yates, Cyril J., Henderson, Ky., assignor to Tri-State Plastic Molding Co. Container having a hinged cover. 2,637,460, May 5.

Yeomans Brothers Company, assignee: *See*—
Yeomans, Charles.

Yeomans, Charles, Hubbard Woods, assignor to Yeomans Brothers Company, Chicago, Ill. Unloading system for compressors. 2,637,485, May 5.

Young, Douglass A., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Moving-coil electrical instrument. 2,637,761, May 5.

Young, Joseph W., Sutton, assignor to The Feiters Company, Boston, Mass. Apparatus for feeding sheet materials. 2,637,551, May 5.

Young, William R.: *See*—
Wickman, George E., and Young.

Young, William R., Fairfield, Conn. Receptacle support. 2,637,518, May 5.

Zaiduondo, John, Hato Rey, P. R. Electrical plug and wall socket. 2,637,765, May 5.

Zotos, George, Lausanne, Switzerland. Process of and means for the continuous running of industrial furnaces. 2,637,544, May 5.

Zumbusch, Peter C.: *See*—
Wisliceenus, George F., and Zumbusch.

Zurzolo, William, East Elmhurst, N. Y. Blanket covering retainer device for baby cribs. 2,637,047, May 5.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Door check. K. Kolbus. Re. 23,652, May 5.

Electrophorette liquid analysis apparatus having a diaphragm and cylindrical lens in the optic path. K. G. Stern. Re. 23,653, May 5.

Radio receiver. R. R. Florac. Re. 23,651, May 5.

Rechipper with vibrating trough. E. I. Flateboe. Re. 23,650, May 5.

LIST OF PLANT INVENTIONS

Rose plant. J. D. Brownell. 1,182, May 5.

Strawberry plant. F. J. Keplinger. 1,183, May 5.

LIST OF DESIGN INVENTIONS

Air and rain diverter. K. G. Anderson. 169,469, May 5.

Aisle standard for reclining chairs. L. W. Brulin and L. F. Covey. 169,473, May 5.

Anhydrous ammonia control or similar article. T. A. St. Clair. 169,522, May 5.

Ash tray. C. F. Herdecker. 169,484, May 5.

Ash tray. A. E. Klatt. 169,507, May 5.

Bag, Carrying. I. M. Murray. 169,517, May 5.

Battery cap, Catalyst. H. M. Gulick and C. E. Stedman. 169,479, May 5.

Bottle and cap therefor, Combined plastic. D. J. Schwarz and M. E. St. Clair. 169,520, May 5.

Bottle opener and screw driver, Combined. C. J. Hug. 169,490, May 5.

Brooch or the like. A. Katz. 169,402–3, May 5.

Brooch or the like. A. Katz. 169,498–9, May 5.

Brooch or the like. A. Katz. 169,501, May 5.

Brooch or the like. A. Katz. 169,503, May 5.

Brooch or the like. A. Katz. 169,505–6, May 5.

Carrier package and cans, Combined. J. K. Bruce and T. H. Davis. 169,472, May 5.

Chair. J. C. Higgins. 169,485, May 5.

Clock, radio, and piano casing, Combination. M. Liffmann and N. Turilli. 169,512, May 5.

Dial and hands for a clock or similar article, Combined. D. Spooner. 169,521, May 5.

Dispenser or similar article, Combined salt and pepper. D. M. Witzgall. 169,526, May 5.

Display unit of interfitted toy blocks. J. B. Henke and R. W. Beach. 169,482, May 5.

Earring or the like. A. Katz. 169,494–7, May 5.

Earring or the like. A. Katz. 169,500, May 5.

Earring or the like. A. Katz. 169,502, May 5.

Earring or the like. A. Katz. 169,504, May 5.

Embroidered trimming or similar article. F. Weber. 169,524, May 5.

Front for sunglass frames or the like. J. Bloch. 169,471, May 5.

Girdle and brassière, Combination. S. C. La Bue and H. P. Coogan. 169,511, May 5.

Girdle and brassière, Combination. S. C. La Bue and H. P. Coogan. 169,510, May 5.

Hair curler and comb, Combined. T. H. Bimrose. 169,470, May 5.

Handle, Battery. R. M. Raney. 169,518, May 5.

Handle for a filing cabinet. A. J. Kuhn. 169,508, May 5.

Hat. V. T. Hoeflich. 169,486, May 5.

Hat, Convertible. M. Tuteur. 169,523, May 5.

Holder, Cigarette. C. F. Herdecker. 169,483, May 5.

Holder for a hand of playing cards. D. E. Whiting. 169,525, May 5.

Motor, Gearhead. A. G. Horvath, W. H. Kuner, and R. L. Wolfe. 169,487–8, May 5.

Motor, Right angle gearhead. A. G. Horvath, W. H. Kuner, and R. L. Wolfe. 169,489, May 5.

Muddler. B. D. Gilbert. 169,477, May 5.

Physiotherapeutic device for the hands, arms, and the like. T. D. Isham. 169,491, May 5.

Planter, Wall. W. H. Robinson. 169,519, May 5.

Plate or similar article. D. Goldrosen. 169,478, May 5.

Rack, Display. E. W. La Barre. 169,509, May 5.

Scarf. L. Deronbais. 169,474, May 5.

Shelf. A. Heitenbein and R. J. Hardt. 169,480–1, May 5.

Spectacle frame. M. Gerlich. 169,476, May 5.

Stocking. L. E. Frye. 169,475, May 5.

Switch, Electric wall. D. L. McFarland. 169,513, May 5.

Table, Folding tray. R. Wright. 169,527, May 5.

Trellis or similar article, Porch. E. Meierjohan. 169,516, May 5.

Vibrator for therapeutic use or similar article, Electric foot. S. L. McNair. 169,515, May 5.

Wheel trim or similar article, Vehicle. C. A. McLeod. 169,514, May 5.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator, Electron. K. Gund, H. Berger, M. M. Scheer, and R. Schittenhelm. 2,637,818, May 5.
Adhesive compositions from mixtures of chlorinated and hypochlorinated rubber. L. A. Brooks. 2,637,751, May 5.
Adhesive comprising methyl isopropenyl ketone-butadiene copolymer. G. E. Hulse. 2,637,710, May 5.
Adhesives comprising phenol-formaldehyde resins, certain polyvinyl acetal resins, and ricinoleate esters. M. A. Bergstedt and R. H. Lamason. 2,637,706, May 5.
Adjustable coat hanger. H. A. Goldschmidt and P. J. Leverence. 2,637,471, May 5.
Adjustable frog. R. L. Reynolds and S. Campbell. 2,637,143, May 5.
Adjustable seat. C. W. Demarest and J. T. Willoughby. 2,637,369, May 5.
Adjustable table cover. L. S. Mark. 2,637,136, May 5.
Aerial system. W. A. Johnson. 2,637,814, May 5.
Aerosol generating and propelling composition and insecticide. K. C. Peer and L. W. Fancher. 2,637,678, May 5.
Aircraft tank arrangement. J. A. Wallen. 2,637,513, May 5.
Aircraft undercarriage. F. C. Albright. 2,637,512, May 5.
Album leaf for photographic prints, Duplex. W. A. McCabe. 2,637,325, May 5.
Alcoholic beverages and method. E. J. Ryan. 2,637,652, May 5.
Alkali-metal rectifier. J. L. Boyer and W. S. Albert. 2,637,827, May 5.
Alkanol sulfates, Branched higher. M. Kosmin. 2,637,740, May 5.
Alloys and rectifiers made thereof. K. Lark-Horovitz and R. M. Whaley. 2,637,770, May 5.
Aluminum etch. R. D. Howard and R. E. Samuelson. 2,637,634, May 5.
Amplitude modulation circuit. P. H. Peters, Jr. 2,637,838, May 5.
Amount entering means for accounting machines. A. J. Fettig. 2,637,494, May 5.
Analytical reagent and method. R. Gehauf and J. Goldenson. 2,637,631, May 5.
Angle of attack controlled safety device for aircraft. W. Gehrig. 2,637,295, May 5.
Angle of attack indicator. W. Gehrig. 2,637,294, May 5.
Antenna for cylindrical waves, Polarizing. H. A. Affel, Jr., and R. A. Dibos. 2,637,847, May 5.
Antenna, Multi-V FM. M. W. Scheidorf. 2,637,533, May 5.
Antenna tower supporting base. C. E. Kessler. 2,637,516, May 5.
Antibacklash attachment for fishing reels. E. P. Battaglia. 2,637,508, May 5.
Apparatus and process for baking sheet material. F. G. Lesniak and L. G. Janett. 2,637,120, May 5.
Apparatus for attaching filamenta to electrodes in machines for coating with metal vapors. Z. M. Shapiro. 2,637,297–8, May 5.
Apparatus for circulating water. H. B. Davidson. 2,637,331, May 5.
Apparatus for cleaning granular material. R. Webster. 2,637,330, May 5.
Apparatus for comparative indication of the moisture contents in two gaseous mediums. C. Allander. 2,637,199, May 5.
Apparatus for conducting histochemical reactions. M. J. Wolf and A. F. Fitton. 2,637,632, May 5.
Apparatus for feeding sheet materials. J. W. Young. 2,637,551, May 5.
Apparatus for heating comminuted molding material. C. A. Nichols, M. E. Todd, W. A. Fletcher, and C. J. Keller. 2,637,070, May 5.
Apparatus for inducing artificial respiration. J. H. Emerson. 2,637,318, May 5.
Apparatus for loading heavy spools. J. B. Fulton. 2,637,452, May 5.
Apparatus for loading truck trailers on ships. H. D. Cleveland. 2,637,453, May 5.
Apparatus for measuring stress relaxation of elastomeric materials. S. D. Gehman. 2,637,203, May 5.
Apparatus for microscopic analysis. B. H. McLeod. 2,637,244, May 5.
Apparatus for obtaining samples from flowing streams. J. S. Norman, Jr. 2,637,211, May 5.
Apparatus for producing healthful sleep. M. G. Clay. 2,637,322, May 5.
Apparatus for relatively continuously receiving material and intermittently discharging the same. L. G. Felderman. 2,637,456, May 5.
Apparatus for splitting warp sheets and the like. J. R. Andrews, Jr. 2,637,094, May 5.
Apparatus for stripping fluid type catalysts. E. Strunk. 2,637,633, May 5.
Apparatus for testing dynamoelectric machines. B. H. Short. 2,637,204, May 5.
Apparatus for transmitting and amplifying motion of a known frequency of oscillation and suppressing superimposed motions of other frequencies of oscillation. R. Barradell-Smith and R. Davison. 2,637,167, May 5.
Apparatus for transmitting oscillatory motion of a known frequency and suppressing superimposed oscillatory motions of other frequencies. R. Davison and R. Barradell-Smith. 2,637,168, May 5.
Apparatus for vaporizing liquid hydrocarbons. C. A. French. 2,637,637, May 5.
Apparatus for welding a terminal clip to a wire. J. S. Burge, F. J. Faust, W. C. Shaw, W. M. Rider, and H. J. McKee. 2,637,798, May 5.
Arch, Embouchure. Z. Swanson. 2,637,239, May 5.
Aromatic-free mineral oil rust inhibiting compositions. T. W. Dixon and L. W. Sproule. 2,637,703, May 5.
Arrow releasing device. H. J. Rose. 2,637,311, May 5.
Article display case. N. A. Simos. 2,637,614, May 5.
Article packages, Making small. W. Kraus. 2,637,152, May 5.
Article stacking apparatus. A. L. Eshelman. 2,637,450, May 5.
Aryl mercuric fungicide and using the same. R. A. Dinerstein. 2,637,677, May 5.
Ash container. D. L. Getz. 2,637,285, May 5.
Atomizer for spraying insecticide liquids and the like. C. Lilienthal. 2,637,596, May 5.
Attachment for garden rakes. H. E. Wale. 2,637,261, May 5.
Automatic gain control system. A. V. Bedford. 2,637,773, May 5.
Automatic ignition and control mechanism for gaseous fuel burners. C. M. Mayer, R. L. Perl, and E. L. Warner. 2,637,393, May 5.
Automobile body structure. H. Kariby. 2,637,592, May 5.
Automobile hitch. L. M. Nichols. 2,637,566, May 5.
Bag: *See*—
Clothing bag. Sleeping bag.
Bag closing apparatus. G. H. Clary. 2,637,153, May 5.
Bag-sewing machine, Hand. G. R. Cerioni. 2,637,288, May 5.
Balanced microwave detector. R. A. Braden. 2,637,813, May 5.
Band brake. M. P. Winther. 2,637,415, May 5.
Bar: *See*—
Exercise bar. Towel bar.
Bar for knitting machines, Warp tension. P. J. Schoenster. 2,637,184, May 5.
Barber chair. N. P. Vizza. 2,637,370, May 5.
Barium salts, Producing. A. C. Herbert. 2,637,700, May 5.
Battery cell cover and construction, Storage. J. K. Shannon. 2,637,759, May 5.
Battery, Deferred action. J. J. Coleman and M. E. Wilke. 2,637,756, May 5.
Battery, Deferred action. M. E. Wilke. 2,637,757, May 5.
Battery, Storage. J. K. Shannon. 2,637,758, May 5.
Battery testing and filling apparatus, Storage. H. F. Nelson. 2,637,760, May 5.
Beam construction, Stabilized. M. R. Wolfard. 2,637,421, May 5.
Bearing sealing assembly. A. L. Cochrane. 2,637,573, May 5.
Belt type gravimetric feeder. L. E. Harper. 2,637,434, May 5.
Blade holder. A. M. Forst. 2,637,105, May 5.
Blanket covering retainer device for baby cribs. W. Znrzolo. 2,637,047, May 5.
Blended polymers, Preparing. C. H. Basdekis. 2,637,717, May 5.
Block: *See*—
Pulley block.
Blockmaking machine, Glue. R. G. Reed and F. C. Crowley. 2,637,352, May 5.
Blower. J. G. Sawyer. 2,637,487, May 5.
Blower wheel construction. C. I. Place. 2,637,489, May 5.
Board: *See*—
Order board. Spotting board.
Bolster. R. T. Leisk. 2,637,280, May 5.
Bolts, Producing. E. F. Losco and F. C. Hull. 2,637,672, May 5.
Booklet, Check. J. G. Tilly. 2,637,571, May 5.
Boom structure for wreckers and similar apparatus. E. W. Holmes. 2,637,447, May 5.
Box: *See*—
Folded blank box.
Box assembly machine. R. E. Swisher. 2,637,252, May 5.
Box folding machine, Glued flap. F. J. Spiess. 2,637,251, May 5.
Bracket: *See*—
Ladder bracket.
Bracket for faucets and the like, Mounting. F. D. Low. 2,637,044, May 5.
Brake: *See*—
Band brake.
Brake. B. E. House. 2,637,417, May 5.
Brake apparatus, Fluid pressure. A. T. Gorman. 2,637,601, May 5.
Brake band equalizer adjusting mechanism. R. N. Cordrey and D. E. Wright. 2,637,419, May 5.
Brake band, Split flexible. H. E. Churchill. 2,637,420, May 5.
Brake equipment, Locomotive. I. M. Eisenberg. 2,637,602, May 5.
Brake testing apparatus, Air. W. F. Meier. 2,637,201, May 5.
Bridge amplifier circuit. R. W. Bordewieck. 2,637,786, May 5.
Broom assembly and weight compensating means therefor, Power sweeper. C. W. Mott. 2,637,055, May 5.
Brush construction. A. Gzdobinski. 2,637,061, May 5.
Brush, Cosmetic. M. Cowan. 2,637,060, May 5.
Brush type apparatus for washing roofs of railway cars and other vehicles, Rotary. L. D. Holmes. 2,637,054, May 5.
Brushing apparatus, Pipe. C. F. Morain. 2,637,056, May 5.
Buff, Rotary. M. Schloss. 2,637,149, May 5.
Buffing machine. J. N. Clyne. 2,637,147, May 5.
Bulb remover, Electric. R. C. Robinson. 2,637,587, May 5.
Burglar trap. R. H. Burnell. 2,637,284, May 5.
Burner: *See*—
Downdraft burner.
Burner structure. J. Borde. 2,637,378, May 5.
Burner with combustion head structure. Gun type oil. J. M. Carroll and T. W. Murphy. 2,637,379, May 5.
Burning sulfur. G. N. Houston. 2,637,630, May 5.
Button, Detachable. M. T. Lowther and A. R. McKinstry. 2,637,082, May 5.
Cabinet: *See*—
Refrigerated storage, dispensing, and display cabinet.
Cabinet. W. E. Theobald. 2,637,615, May 5.
Cabinet for corner use, Kitchen. C. S. Motter. 2,637,613, May 5.
Calcium-sodium soap greases from highly oxidized waxes. J. K. McKinley, B. A. Scott, W. H. Goff, and R. F. Nelson. 2,637,695, May 5.
Calculator, Vest-pocket type. S. K. Lowe. 2,637,497, May 5.
Calibrator, Square wave voltage. A. J. Talamini, Jr. 2,637,816, May 5.
Caliper for sheet material handling apparatus, Magnetic. G. F. Watson. 2,637,552, May 5.
Caliper, Magnetic. G. F. Watson. 2,637,115, May 5.
Calipering device, Tubing. J. V. Fredd. 2,637,117, May 5.
Can carrier. F. D. Empkie, Jr. 2,637,476, May 5.
Can top handle. E. S. Fisher. 2,637,465, May 5.
Candy preforming machine. L. and E. Latini. 2,637,281, May 5.
Canopy structure, Reinforced. F. B. Bolte. 2,637,076, May 5.
Car puller. F. H. Hoge and J. A. Marland. 2,637,526, May 5.
Carbon molded bodies, Manufacture of. C. D. Greaves and W. D. Parker. 2,637,072, May 5.
Carburetor for powdered fuel. S. L. Fitzpatrick. 2,637,599, May 5.
Carcass splitter. H. L. Davis. 2,637,354, May 5.
Carrel unit. A. S. MacDonald. 2,637,616, May 5.
Carrier: *See*—
Can carrier. Paperboard carrier.
Carrier. J. Gialanella. 2,637,475, May 5.
Carrier bar for polish rods. M. A. Cox and J. L. Shively. 2,637,528, May 5.
Carrier bracket for trucks. C. Di Vincenzo. 2,637,474, May 5.
Carrier rod driving mechanism for knitting machines. G. Bitzer, H. C. Pingel, and C. R. Fegley. 2,637,183, May 5.
Carpet, Backsized. E. P. Mersereau. 2,637,095, May 5.
Carton, Collapsible. K. T. Buttery. 2,637,484, May 5.
Carton, Egg. J. W. Cox. 2,637,479, May 5.
Carton for fruits and vegetables, Display. C. Adams, Sr. 2,637,481, May 5.
Case: *See*—
Article display case. Rosary cross case.
Casting device, Centrifugal. A. J. Kemppe. 2,637,079, May 5.
Chain: *See*—
Metal strap tire chain.
Chainmaking apparatus. R. L. Cooke. 2,637,159, May 5.
Chair: *See*—
Barber chair. Child's portable chair.
Chair having resilient frame. H. S. Boutin. 2,637,371, May 5.
Change-speed gearing. T. Backus and E. L. Ludvigsen. 2,637,221, May 5.
Charging storage batteries. T. L. Kendall, C. B. Bodenhafer, and R. I. Plummer. 2,637,830, May 5.
Child's portable chair. N. C. Angelo. 2,637,372, May 5.
Chilling apparatus, Poultry. G. W. Johnson. 2,637,066, May 5.
Chlorinating natural rubber. J. Been and M. M. Grover. 2,637,753, May 5.
Chute, Mail. M. Katz. 2,637,430, May 5.
Cigarette chute. L. E. Harris. 2,637,490, May 5.
Circuit: *See*—
Amplitude modulation circuit. Crystal filter circuit.
Bridge amplifier circuit. Keyed noise-clipping circuit.
Circuit for cathode-ray tubes, Centering. G. F. Rogers. 2,637,832, May 5.
Clamp: *See*—
Holddown clamp.
Clamp. B. W. Henrikson and W. E. Nordmark. 2,637,081, May 5.
Clamp. H. F. Swenson. 2,637,249, May 5.
Clamping device. H. D. Culver. 2,637,268, May 5.
Clamping device for adjustably securing tool standards to plow beams. R. J. Aitgelt. 2,637,262, May 5.
Clasp for bracelets or the like, End. E. Kupchick. 2,637,090, May 5.
Clasp pin eyeglass holder. M. Nemser. 2,637,080, May 5.
Clasp, Spring hook. H. Kuehn and J. F. Sand. 2,637,089, May 5.
Cleaner and peeler, Shrimp. F. S. and E. M. Lapeyre. 2,627,065, May 5.
Clip: *See*—
Glazing clip.
Clip for use in giving permanent waves, Hair. E. E. Reiter. 2,637,329, May 5.
Close-quarter peen. W. P. Goede. 2,637,228, May 5.
Closure for exhaust pipe for gas engines. C. H. Harman. 2,637,264, May 5.
Closure member. P. D. Becker. 2,637,462, May 5.
Closure unit for chamber wall openings. F. X. Gilg and J. C. Singleton, Jr. 2,637,461, May 5.
Clothing bag. M. L. Duskin. 2,637,424, May 5.
Clutch: *See*—
Fan drive clutch. Impact type clutch.
Coating. M. G. Bigley. 2,637,060, May 5.
Coating articles with an olefin-sulfur dioxide resin. J. F. Howe. 2,637,664, May 5.
Coffee maker, Steam. C. Grado. 2,637,266, May 5.
Coil unreeler. G. Stanius. 2,637,509, May 5.
Coke oven construction. D. Petit. 2,637,685, May 5.
Collapsibly mounted condenser. G. A. Gruss and A. A. Sobieski. 2,637,179, May 5.
Collar protector. R. B. Smith. 2,637,034, May 5.
Colloidal flavonol system. C. F. Krewson. 2,637,725, May 5.
Color stabilizers. E. L. Walters. 2,637,636, May 5.
Colter for two-way plows, Reversible. J. G. Lindeman. 2,637,256, May 5.
Combined slide fastener. O. D. Philips. 2,637,086, May 5.
Communication transmission line conductor. L. G. Erickson and K. E. Appert. 2,637,783, May 5.
Compass, Bow. H. A. Kroenlein. 2,637,113, May 5.
Composition and method of its application to cotton glove fabric. R. N. Russell. 2,637,662, May 5.
Compressor. L. M. Krouse, J. H. Nourse, H. R. Katzmann, and F. A. Howard. 2,637,488, May 5.
Computing device. C. E. Pond. 2,637,498, May 5.
Computing device for vapor-liquid equilibrium calculations. F. W. Bubb. 2,637,495, May 5.
Condensation product of polymeric phosphonitrilic chloride, chloroaniline and a polyamino compound. F. R. Hurley. 2,637,704, May 5.
Condenser: *See*—
Collapsibly mounted condenser.
Condensing zinc vapor. E. C. Handwerk, C. T. Mahler, and L. J. Held. 2,637,649, May 5.
Conditioning apparatus for rotary saws. G. M. Gustin. 2,637,223, May 5.
Congelation apparatus and method. H. M. Reedall. 2,637,177, May 5.
Connector: *See*—
Interlocking electrical connector. Safety electric fuse connector.
Construction unit. L. S. Emmert. 2,637,265, May 5.
Container: *See*—
Ash container. Vented fluid dispensing container.
One-piece covered container.
Container and closure therefor. W. M. Vogel, Jr. 2,637,464, May 5.
Container for crayons and the like. S. Salkey. 2,637,299, May 5.
Container having a hinged cover. C. J. Yates. 2,637,460, May 5.

Control for transmission gearing in multiengine power plants. L. F. R. Fell. 2,637,169, May 5.
Control mechanism for brake holders. G. A. Guernsey and A. H. Green. 2,637,416, May 5.
Control mechanism for oven burners. C. M. Mayer and J. M. Hoff. 2,637,388–9, May 5.
Converting liquid fuel, Means for. W. T. Taylor. 2,637,173, May 5.
Converting volcanic ash to cellular particles. A. L. Burwell. 2,637,702, May 5.
Conveyer, Container handling. C. A. Shuttleworth. 2,637,433, May 5.
Conveyer, Endless. F. G. Mitchell. 2,637,455, May 5.
Conveyer, Spiral vibrating. R. S. Jacobsen. 2,637,437, May 5.
Conveyer suction hood, Pneumatic. M. I. Dorfan. 2,637,600, May 5.
Copolymers containing hydrogen bonded directly to silicon. J. B. Rust. 2,637,718, May 5.
Copolymers of vinyl acetate with derivatives of alpha, beta-unsaturated dicarboxylic acids. W. V. Upton. 2,637,712, May 5.
Cord stop. H. K. Lorentzen. 2,637,084, May 5.
Core for molds. W. J. Williams and J. W. E. Hanes. 2,637,071, May 5.
Corn popping machine. R. J. Baunach. 2,637,656, May 5.
Cornice, Window. R. W. Hyde. 2,637,380, May 5.
Cotton lint conditioning machine. J. L. Rudy and W. C. Pitts. 2,637,075, May 5.
Coupling: *See*—
Self-sealing coupling.
Coupling for frequency modulation discriminators. J. C. Spindler. 2,637,809, May 5.
Coupling of a helical conductor to a wave guide. F. C. F. O. Lund. 2,637,775, May 5.
Coupling with detachable shoes, Fluid operated. H. T. Kraft. 2,637,427, May 5.
Cover: *See*—
Adjustable table cover.
Cover for toilet flush tanks. P. E. Doebler. 2,637,360, May 5.
Crystal filter circuit. R. L. Craiglow. 2,637,779, May 5.
Cuff link and the like. A. Plotnisky. 2,637,083, May 5.
Current integrator. R. L. McCreary. 2,637,820, May 5.
Cutter bar and mower guard for mowers. V. O. Hauswirth. 2,637,158, May 5.
Cutter with variable spacing means, Rotary. O. Muller. 2,637,395, May 5.
Cutting tool. E. C. Howell. 2,637,529, May 5.
Cycle control mechanism, Repeat. C. F. Harris. 2,637,431, May 5.
Cylinder control with rate response, Air actuated power. E. C. Burdick. 2,637,301, May 5.
Defoliant composition. M. Kosmin. 2,637,646, May 5.
Defrosting arrangement for refrigerators, Electrical. L. W. Atchison. 2,637,180, May 5.
Derivatives of 1,4-diaminobenzene-N-sulphonic acid, Preparation of. R. L. Lantz and G. H. V. Krémer. 2,637,743, May 5.
Device for connecting a member to the end portion of a spindle or the like. A. Tingvatne. 2,637,148, May 5.
Device for dispensing sandwiches and the like. W. S. Tandler and D. S. Walker. 2,637,611, May 5.
Device for distributing air, gas, or the like in liquids. A. Rubin. 2,637,541, May 5.
Device for making curved electroplate shells. R. R. Myers, Jr. 2,637,689, May 5.
Device for removing cards from between stacked articles. K. F. Newell. 2,637,451, May 5.
Dibenzyl tetrathiodiglycolate. L. Libenson. 2,637,741, May 5.
Diketones and their preparation. E. W. Gluesenkamp and T. M. Patrick, Jr. 2,637,742, May 5.
Diazo dyestuffs containing copper. W. Anderau. 2,637,723, May 5.
Dispenser: *See*—
Tooth paste dispenser. Water dispenser.
Dispensing device, Card. P. Berg. 2,637,609, May 5.
Dispersing materials in water. J. De Ment. 2,637,536, May 5.
Display apparatus. O. B. Paulson. 2,637,131, May 5.
Display support. J. Pine. 2,637,444, May 5.
Distillation of solid carbonaceous materials. L. S. Kassel. 2,637,683, May 5.
Distribution of solids in air. J. M. Crom. 2,637,539, May 5.
Doll stage construction. H. C. and E. P. Doran. 2,637,138, May 5.
Door actuator, Overhead. B. Ritter. 2,637,550, May 5.
Door latch. J. H. Roethel. 2,637,581, May 5.
Door lock. J. H. Roethel. 2,637,580, May 5.
Door lock. J. H. Roethel. 2,637,582–3, May 5.
Dough former. T. E. and W. R. Belshaw. 2,637,282, May 5.
Downdraft burner. J. E. McCutchen. 2,637,376, May 5.
Drain for sewage disposal systems. L. K. Benedict. 2,637,170, May 5.
Drawn articles, Producing. R. J. McKay. 2,637,686, May 5.
Drill: *See*—
Paper drill. Portable hand drill.
Drill stem packer with deflating means. G. H. Ramsey. 2,637,401, May 5.
Drink mixer agitator. W. A. Ernst. 2,637,537, May 5.
Drive for brushing cylinders or rough rolls in teaseling machines. P. Kohl. 2,637,092, May 5.
Driving mechanism for tremolos. C. P. Krueger. 2,637,213, May 5.
Drying granular vinyl ester polymers. L. M. Germain. 2,637,119, May 5.
Dust bag for vacuum cleaners, Disposable. E. P. Turner and N. H. Sailer. 2,637,409, May 5.
Dyeing an acrylonitrile copolymer with acid dyes and thiourea. G. E. Ham. 2,637,620, May 5.
Dynamoelectric machine. T. W. Moore. 2,637,825, May 5.
Egg handling apparatus. E. W. Fahey. 2,637,435, May 5.
Egg handling apparatus. E. W. Fahey. 2,637,458, May 5.
Egg white composition. H. J. Kothe. 2,637,654, May 5.
Elbow lock and alternator for actuating the same. D. M. Threewit. 2,637,042, May 5.
Electric iron. R. R. Fitzsimmons. 2,637,126, May 5.
Electric load limiter. E. F. Kingsley. 2,637,822, May 5.
Electrical control device for scale-model railroads. W. S. Pike, Jr. 2,637,796, May 5.
Electrical control system. I. Eachus, Jr. 2,637,831, May 5.
Electrical network having distributed capacitance. J. S. Kilby and A. S. Khouri. 2,637,777, May 5.
Electrically controlled lock. R. C. Gaona. 2,637,578, May 5.
Electrodeposition of nickel. L. B. Portzer and W. C. Leitenberger. 2,637,687, May 5.
Electroinductively actuated valve. R. B. Matthews. 2,637,344, May 5.
Electrolyte level indicator. T. L. Kendall and D. P. Gentry. 2,637,209, May 5.
Electronic pulse generator. N. A. Moerman. 2,637,810, May 5.
Electronic pulse spacer. G. E. Hagen. 2,637,812, May 5.
Elevator door operating mechanism. J. H. Borden. 2,637,549, May 5.
Emergency valve. W. L. Houston, Jr. and M. F. Rawlings. 2,637,333, May 5.
Endgate actuating mechanism for carry-type scrapers, Rear. R. G. Le Tourneau. 2,637,124, May 5.
Engine: *See*—
Internal-combustion engine.
Engine-driven vapor compression distillation. A. C. Buffum. 2,637,684, May 5.
Engine manifold. H. A. Thomas. 2,637,160, May 5.
Engine over temperature fuel control mechanism. P. P. Stockinger. 2,637,165, May 5.
Epoxy resin-polycarboxylic acid-dicyandiamide reaction products. G. H. Ott. 2,637,715, May 5.
Epoxy-resin, polycarboxylic acid polyamine reaction products. G. H. Ott. 2,637,716, May 5.
Ethylene-bridged dibenzanthrone compounds and their preparation. J. M. Straley. 2,637,733, May 5.
Exercise bar. H. R. Klaudt. 2,637,555, May 5.
Exerciser. A. J. Bruene. 2,637,319, May 5.
Extraction of insulin as well as enzymes from pancreas. G. Petersen. 2,637,680, May 5.
Extraction of naphthenic acids. S. E. Jolly. 2,637,744, May 5.
Extraction tower for comminuted material of vegetable or plant origin, particularly sugar beets. E. Langen. 2,637,666, May 5.
Eyepiece for optical instruments. M. Ludewig. 2,637,245, May 5.
Fabric: *See*—
Nonwoven film coated fabric.
Fan. W. H. Taylor, Jr. 2,637,486, May 5.
Fan drive clutch. A. Y. Dodge. 2,637,308, May 5.
Fastener: *See*—
Combined slide fastener. Separable fastener.
License tag fastener. Shoe fastener.
Feeder: *See*—
Belt type gravimetric feeder.
Feeding mechanism for nipple threading machine and the like. G. B. Marsden. 2,637,051, May 5.
Ferrosilicon, Production of. M. J. Udy. 2,637,848, May 5.
Fiberboard containing bitumen modified fatty acid pitch. L. C. Bradshaw. 2,637,656, May 5.
Fiber comb and stripper therefor, Rotary. A. W. Gardes. 2,637,074, May 5.
Fiber-forming copolymer. E. W. Gluesenkamp and G. E. Ham. 2,637,721, May 5.
Filling and holding device for containers. F. P. Tucker. 2,637,477, May 5.
Filling machine and valve therefor. L. McGihon. 2,637,478, May 5.
Filter: *See*—
Resonant cavity filter. Rotary pan filter.
Filter structure for suction cleaning apparatus. F. A. Martin and M. H. Ripple. 2,637,410, May 5.
Finger cot, Physician's. N. H. Friedman. 2,637,031, May 5.
Firearms, Gas-operated self-ejecting and self-loading. H. W. Hester. 2,637,247, May 5.
Fish landing net, Angler's. A. C. Ross. 2,637,133, May 5.
Fish lure. A. G. Davidson. 2,637,134, May 5.
Fishing line meter. L. L. La Fontaine and F. H. Neuman. 2,637,112, May 5.
Fishing reel. M. W. Elliston. 2,637,418, May 5.

Fishing reel. H. Phillips. 2,637,507, May 5.
Flashlamp. J. A. M. Van Liempt. 2,637,185, May 5.
Flatiron supporting mechanism, Retractable. G. Browning. 2,637,127, May 5.
Flowmeter. E. R. Atkins, Jr. 2,637,206, May 5.
Flowmeter, Magnetic. D. R. de Boisblanc. 2,637,207, May 5.
Fluid controlled transmission. V. F. Stewart. 2,637,219, May 5.
Fluid cooled furnace. C. L. Marques, Jr. and E. A. Kazmierski. 2,637,306, May 5.
Fluid-flow regulator. M. C. Pease. 2,637,339, May 5.
Fluid pressure control. J. F. Shannon. 2,637,342, May 5.
Fluid pressure servo mechanism. N. E. Starkey. 2,637,324, May 5.
Fluid proportioning and conditioning apparatus. L. H. and H. L. Thoresen. 2,637,310, May 5.
Fluid seal. K. L. Diehl. 2,637,574, May 5.
Fluorination. E. T. McBee. 2,637,747, May 5.
Fluoro organic compounds, Manufacture of. C. B. Miller. 2,637,748, May 5.
Folded blank box. D. H. Shapiro. 2,637,483, May 5.
Food mixer power unit. J. B. Kessel. 2,637,824, May 5.
Forced downward air flow air-heating furnace. J. S. Wallis and J. W. Throckmorton. 2,637,314, May 5.
Forceps, Obstetrical. E. M. Greenberg. 2,637,320, May 5.
Fork construction. R. Samson. 2,637,104, May 5.
Formaldehyde-dicyandiamide resins and the treatment of leather therewith. W. O. Dawson and L. Sellet. 2,637,622, May 5.
Forming commutators. H. W. Stein and J. D. Risher. 2,637,098, May 5.
4,6-diketo hexahydropyrimidines, Manufacture of. W. R. Boon, N. Greenhalgh, E. London, and C. H. Vasey. 2,637,730, May 5.
Fractional separation of wax from a hydrocarbon mixture using an organic complexing agent and a solvent. G. B. Arnold, H. V. Hess, and W. E. Skelton. 2,637,681, May 5.
Frame: *See*—
Laundry frame. Welded railway car truck frame.
Photographic contact frame.
Fuel control for gas turbine engines, Automatic. J. F. Campbell. 2,637,374, May 5.
Fuel supply control for air-atomizing oil burners. H. F. Tapp and R. M. Cochrane. 2,637,375, May 5.
Fuel supply system. P. H. Stokes, A. A. Avenell, and P. Mitchell. 2,637,273, May 5.
Fungicidal composition and using same. P. G. Benignus. 2,637,661, May 5.
Furnace: *See*—
Fluid cooled furnace.
Forced downward air flow air-heating furnace.
Furniture. J. Staartjes. 2,637,045, May 5.
Gang punch. N. S. Welk. 2,637,397, May 5.
Garment construction. A. Teitelbaum. 2,637,039, May 5.
Garment pocket, Nonsag. I. Kay. 2,637,040, May 5.
Garment seat cushion. G. F. Pinsutti. 2,637,032, May 5.
Gas-liquid contact apparatus. C. B. Rowe. 2,637,540, May 5.
Gas turbine rotor and welding rotor disks together. L. R. Constantine, C. T. Evans, Jr., and E. S. Denulson. 2,637,521, May 5.
Gaseous diffusion process. P. W. Garbo. 2,637,625, May 5.
Gate: *See*—
Water gate.
Gauge for bullet holes, Scoring. C. H. Daughraty. 2,637,556, May 5.
Gauge roll for lawn mowers. H. J. Stegeman. 2,637,157, May 5.
Gauging device, Pneumatic. E. C. Adkins. 2,637,200, May 5.
Gauging device, Tank. P. McDuff. 2,637,111, May 5.
Generating device, Power-gas. J. Taylor, A. C. Hutchison, and I. Fageston. 2,637,274, May 5.
Generating system, Pulse. P. E. Fox. 2,637,811, May 5.
Generator: *See*—
Electronic pulse generator. Random signal generator.
Girdle construction. E. R. Kaupp. 2,637,033, May 5.
Glass charge distributing apparatus. L. N. Pond. 2,637,429, May 5.
Glazing clip. V. T. Creegan. 2,637,423, May 5.
Glider, Furniture. P. D. Becker. 2,637,063, May 5.
Grease compositions. W. H. Peterson and T. Skei. 2,637,694, May 5.
Grill, Adjustable. C. J. White. 2,637,313, May 5.
Grinding wheel dressing device. D. Alderman. 2,637,312, May 5.
Ground detector and protective system. H. L. Kammerdiener. 2,637,843, May 5.
Hair holder. S. Behr. 2,637,328, May 5.
Halogenated aryl alicyclic carboxylic acids and their salts and manufacturing the same. E. Schwenk and D. Papa. 2,637,745, May 5.
Hammer construction, Air. P. R. Van Sittert. 2,637,300, May 5.
Hammer rotor for pulverizing machines, Pocketed. F. C. Bond. 2,637,502, May 5.
Hand-guided and chain-driven bark-removing tool. L. W. Johnson and W. G. Saunders. 2,637,357, May 5.
Handle: *See*—
Can top handle.
Handle having detachable hand wheel and flexible shaft. Wrench. T. E. Hoffman. 2,637,233, May 5.
Hanger: *See*—
Adjustable coat hanger. Try-on garment hanger.
Harness cam and treadle means for looms. L. M. Rogers. 2,637,348, May 5.
Harvester for wheel-type tractors, Beet. L. W. Schmidt and H. V. Lea. 2,637,155, May 5.
Harvester gatherer belt. N. F. Andrews. 2,637,436, May 5.
Head motion for looms. A. H. Landry. 2,637,347, May 5.
Heat exchange structure. A. G. Janos. 2,637,530, May 5.
Heat exchanger, Fan type. A. L. Baker. 2,637,532, May 5.
Heat exchanger for internal-combustion engines. A. C. Buffum. 2,637,305, May 5.
Heater: *See*—
Portable tool heater.
Heater and operating system therefor, Liquid fuel burning. S. J. Budlane. 2,637,377, May 5.
Heating and ventilating system, particularly for vehicles. E. L. Kessler. 2,637,500, May 5.
Heating apparatus, Electric. H. N. Ipsen. 2,637,755, May 5.
Heating element, Electrical. P. Schenk. 2,637,797, May 5.
Heating system for baking ovens, Unit. C. Klein, R. C. Skarin, and W. G. Tinker. 2,637,283, May 5.
Herbicidal compositions. M. Kosmin. 2,637,647, May 5.
High molecular weight ester from water miscible alcohol, Manufacture of. R. E. Merz. 2,637,736, May 5.
Hitch and grill guard attachment for tractors. E. N. Meyer and H. J. Steiner. 2,637,586, May 5.
Hobbyhorse, Mechanical. J. H. Terreson. 2,637,554, May 5.
Hoist limit mechanism. F. Lock. 2,637,525, May 5.
Hoisting apparatus, Vehicle. D. A. Wallace. 2,637,522, May 5.
Holddown clamp. E. G. Clark. 2,637,226, May 5.
Holder: *See*—
Blade holder. Hair holder.
Clasp pin eyeglass holder. Map holder.
Holder and looper, Drapery. H. McCabe. 2,637,384, May 5.
Holder for infants' nursing bottles. R. J. Walsh. 2,637,515, May 5.
Hydraulic actuated valve. J. E. Clatron. 2,637,303, May 5.
Hydraulic pumping, Method of and apparatus for. C. J. Coberly. 2,637,276, May 5.
Hydrocarbon oil composition. A. D. Kirshenbaum and J. M. Hoyle. 2,637,696, May 5.
Ignition and control mechanism for oven burners, Automatic. C. M. Mayer. 2,637,385, May 5.
Ignition and control mechanism for oven burners, Automatic. C. M. Mayer and J. M. Hoff. 2,637,387, May 5.
Ignition and control mechanism for oven burners, Automatic. R. L. Perl and J. M. Hoff. 2,637,386, May 5.
Ignition and control mechanism for oven burners, Automatic. R. L. Perl and J. M. Hoff. 2,637,390–1, May 5.
Ignition for rockets and the like. J. G. Tschinkel. 2,637,161, May 5.
Illuminated indicating apparatus. R. B. Colt. 2,637,296, May 5.
Imidazopyridines. J. R. Vaughan, Jr. 2,637,731, May 5.
Impact type clutch. P. R. Van Sittert. 2,637,426, May 5.
Implement for decorating walls and other surfaces. R. H. Hesson. 2,637,272, May 5.
Implement lift. J. E. Stratman. 2,637,564, May 5.
Impregnated laminated tubes, Preparation of. W. F. Stahl. 2,637,674, May 5.
Impregnated paper and making same. L. L. Dodge. 2,637,665, May 5.
Increasing the telegraph signaling speed of submarine telegraph cables, Means for. H. F. Wilder. 2,637,784, May 5.
Indicating device for photographic cameras. W. Noack and H. Naumann. 2,637,253, May 5.
Indicator: *See*—
Angle of attack indicator. Recording plan position indicator.
Electrolyte level indicator.
Multirange recorder indicator.
Industrial system of voltage rectification by means of rectifying tubes provided with a control grid. P. M. G. Toulon. 2,637,837, May 5.
Inertia switch. S. Bieler. 2,637,791, May 5.
Injection molding. H. T. Walther. 2,637,073, May 5.
Insecticidal aerosol compositions comprising a 1,1,1-trichloro-2,2-bis (ethoxy methyl phenyl) ethane in a chloro-fluoro methane. L. A. Mikeska. 2,637,676, May 5.
Instrument, Binocular vision diagnostic. H. Martin. 2,637,317, May 5.
Instrument, Calculating. A. F. Winterfeldt. 2,637,499, May 5.
Instrument, Combination recording and magnetically operated indicating. W. A. Ray. 2,637,618, May 5.
Instrument, Drafting. H. S. Gilbertson. 2,637,110, May 5.
Instrument, Moving-coil electrical. D. A. Young. 2,637,761, May 5.
Instrument, Moving-coil electrical measuring. L. J. Lunas. 2,637,762, May 5.

Intaglio printing press. A. P. Bamford. 2,637,270, May 5.
Integrator. A. F. Sperry. 2,637,496, May 5.
Interlocking electrical connector. F. E. Maxwell. 2,637,764, May 5.
Internal-combustion engine. W. W. Cushman. 2,637,307, May 5.
Intramuscularly-administrable prolonged-action penicillin products. W. E. Gaunt, E. Bartner, and H. A. Schaeffer. 2,637,679, May 5.
Ion-trap cathode-ray tube. K. A. Hoagland. 2,637,828, May 5.
Iron: *See*—
Electric iron.
Isolating caramel coloring compounds. J. E. Cleland and J. B. Longnecker. 2,637,655, May 5.
Jack: *See*—
Lifting jack. Transmission jack.
Jet spoiling means for aircraft gas turbines. A. R. D. Robson and A. P. Johnstone. 2,637,164, May 5.
Journal box impact head and dust guard structure. T. W. Potter. 2,637,604, May 5.
Kerf-boring machine for mining coal and like minerals. J. Yarmak. 2,637,542, May 5.
Keyed automatic gain control. K. R. Wendt. 2,637,772, May 5.
Keyed noise-clipping circuit. J. Avins. 2,637,774, May 5.
Keyless tumbler lock. W. W. Hurtel. 2,637,195, May 5.
Knee guard or brace. R. O. S. Shook. 2,637,575, May 5.
Knife. H. Vossler. 2,637,102, May 5.
Ladder bracket. W. L. and H. R. Brensike. 2,637,517, May 5.
Laminated bodies of celluiosic materials and product, Preparing. W. M. Bain. 2,637,675, May 5.
Lamp shade construction. W. A. Jacubs, 2,637,805, May 5.
Lamp stem fabricating apparatus, Automatic. R. M. Gardner, S. J. Gartner, and E. W. Barrett. 2,637,144, May 5.
Lamp with lens and reflector means, Vehicle. J. R. Hollins. 2,637,804, May 5.
Latch: *See*—
Door latch. Safety latch.
Latch for the slidable members of jaw wrenches. B. M. Borkeluan, 2,637,234, May 5.
Latch for two relatively movable members, Automatic. R. K. Nottingham. 2,637,576, May 5.
Laundry frame. A. A. Reifschneider. 2,637,191, May 5.
Laundry machine. P. W. Douglas. 2,637,186, May 5.
Laundry machine. P. W. Douglas. 2,637,189, May 5.
Lens system for projectors, Condenser. H. Osterberg, R. M. Muller, and R. K. Luneburg. 2,637,242, May 5.
License tag fastener. H. A. McClellan. 2,637,240, May 5.
Lifting device for dump trailers. E. A. Schonrock. 2,637,593, May 5.
Lifting jack. M. B. Lucker. 2,637,523, May 5.
Light having a replaceable lamp, Ignition timing. K. Reifenberg. 2,637,803, May 5.
Lighter, Plug type. J. E. Wood. 2,637,799, May 5.
Lighting system and apparatus. F. H. Skrotzki. 2,637,833, May 5.
Lightweight structure for aircraft sustaining rotor blades. P. H. Stanley. 2,637,405, May 5.
Liner for the jaw faces of pipe wrenches. E., S. E., and M. H. Vergnani. 2,637,236, May 5.
Localizer and swamping antenna, Combination. J. P. Shanklin. 2,637,815, May 5.
Lock: *See*—
Door lock. Keyless tumbler lock.
Electrically controlled lock.
Lock and light control switch arrangement, Door. W. L. Kelley and G. Adamec. 2,637,801, May 5.
Lock for lighter lids, Safety. R. Wiessner. 2,637,577, May 5.
Lock hasp. W. E. Atkinson. 2,637,584, May 5.
Lock system for automobiles. F. H. Seaver and R. J. Britt. 2,637,196, May 5.
Locking-bolt operating structure. H. J. Troche and J. H. Holan. 2,637,585, May 5.
Locomotive, Gas turbine. H. A. Altorfer. 2,637,277, May 5.
Loom which pneumatically projects weft thread, Shuttleless. G. W. Dunham. 2,637,349, May 5.
Loop drier girt. A. O. Hurxthal. 2,637,093, May 5.
Loose-leaf binder. C. H. Lockwood. 2,637,323, May 5.
Loose-leaf binder. P. Witz. 2,637,326, May 5.
Louver window and operating mechanism. E. A. Schottenberg. 2,637,547, May 5.
Low oil control. J. B. Harrison and G. T. Adams. 2,637,302, May 5.
Lubricant and making same. D. Frazier. 2,637,722, May 5.
Lubricant injector. A. P. Fox and C. H. Mueller. 2,637,413, May 5.
Lubricant, Yarn. J. L. Baggett and M. W. Duke. 2,637,693, May 5.
Lubricating apparatus. W. G. Hoelscher. 2,637,412, May 5.
Lubrication system for vertically mounted bearings, Permanent. J. H. Powers. 2,637,605, May 5.
Lubricator for car wheel flanges. A. L. Harbison. 2,637,411, May 5.
Machine for centrifugal casting. J. M. Fowle and R. W. Muchmore. 2,637,078, May 5.
Machine for cleaning and scraping pallets of block molds. L. D. Moore. 2,637,057, May 5.
Machine for forming arcuate contours. R. E. Wasley. 2,637,145, May 5.
Magnesia and calcium carbonate, Manufacture of. M. Illeguet. 2,637,545, May 5.
Magnetic pickup unit and making same. K. W. Miller. 2,637,205, May 5.
Magnetic recording and reproducing sound, Method and means of. L. H. Connell. 2,637,561, May 5.
Manufacturing leather substitute. L. Valentini. 2,637,752, May 5.
Map holder. W. L. Weeks. 2,637,128, May 5.
Mask, Face. R. H. Bower. 2,637,038, May 5.
Material receiving, storing, and discharging apparatus. A. L. Barrett. 2,637,457, May 5.
Measuring apparatus, Electrical. A. C. Grex. 2,637,316, May 5.
Measuring conductivity of liquids, Method of and apparatus for. C. E. Bragg. 2,637,768, May 5.
Meat chopping method and apparatus utilizing a centrifugally positioned knife within a rotating and foraminous basket. W. H. Taylor. 2,637,339, May 5.
Mechanical apparatus to inject fluids into wells in batches. J. A. Clay, Jr. 2,637,469, May 5.
Mechanism control. R. S. Hinsey. 2,637,218, May 5.
Mercury interrupter. W. W. Cushman. 2,637,792, May 5.
Metal strap tire chain. C. B. Woodworth. 2,637,364, May 5.
Metallized paper capacitor. R. A. Grouse. 2,637,766, May 5.
Meter: *See*—
Fishing line meter.
Methylolstreptomycin. C. I. Jarowski and F. X. Murphy. 2,637,724, May 5.
Microhardness tester. H. Broschke. 2,637,202, May 5.
Microscope, Variable phase contrast. H. Marx. 2,637,243, May 5.
Microwave spectroscopy, Wide band. W. D. Hershberger. 2,637,767, May 5.
Mineral oil lubricating composition containing a copolymer of an alkyl ester of itaconic acid and an alkyl acrylate or methacrylate. T. S. Tutwiler. 2,637,698, May 5.
Miniature or toy railroad track. H. L. Joyce. 2,637,501, May 5.
Mining machine frame and cutter bar construction. A. L. Lee. 2,637,543, May 5.
Mixing and feeding chlorine gas, Means for. R. B. Everson. 2,637,690, May 5.
Mixing apparatus. R. D. Boutros, J. V. Donohoe, and M. Dykman. 2,637,538, May 5.
Mixing combustible gases, Method of and apparatus for. E. X. Schmidt. 2,637,638, May 5.
Model airplane, vehicle or boat and motor therefor, Reaction-propelled. C. M. Wilmot and J. N. Mansour. 2,637,162, May 5.
Modifiers for synthetic resin molding compositions, and producing the same. T. J. Suen and A. M. Schiller. 2,637,713, May 5.
Moistening apparatus, Cotton picker spindle. J. D. Rust. 2,637,156, May 5.
Monoalkyl aromatic hydrocarbons, Production of. F. M. Smith and R. S. Hanmer. 2,637,750, May 5.
Mop with flexible back carrying absorbent material and with hinged cover plate, Flexible. P. S. and T. S. Vosbikian. 2,637,059, May 5.
Motor. W. A. Humphrey. 2,637,826, May 5.
Mounting for a plurality of machines, Resilient. A. G. Dean. 2,637,278, May 5.
Mounting means for cotton choppers. E. G. Shaver. 2,637,154, May 5.
Muck stripper for endless track treads. F. Cartlidge. 2,637,603, May 5.
Multirange recorder indicator. I. M. Stein. 2,637,619, May 5.
N-(3,4,6-triacetyl-D-glucosyl) piperidine and preparing same. J. E. Hodge. 2,637,727, May 5.
Nonwoven film coated fabric. R. H. Barnard. 2,637,673, May 5.
Nozzle, Jet engine variable area exhaust. C. R. Brown and W. H. Leedecke. 2,637,163, May 5.
Nozzle with removable wand and illuminating means, Suction. O. B. Sutton and W. A. Humphrey. 2,637,062, May 5.
Obtaining the dispersion of a finely divided solid material in a liquid. M. H. M. Arnold. 2,637,534, May 5.
Ocular prosthesis. L. A. Morrell. 2,637,043, May 5.
Oil additive, Lubricating. J. H. Bartlett. 2,637,697, May 5.
Oil-base drilling fluids. P. G. Nahin. 2,637,692, May 5.
Oil-in-water emulsion textile printing extender pastes. L. Auer. 2,637,705, May 5.
Oil modified alkyd resins from degummed soybean oil and mono-pentaerythritol. P. E. Marling and A. R. Hempel. 2,637,707, May 5.
One-piece covered container. F. W. Broderick. 2,637,482, May 5.
Optical log system. R. L. Stone. 2,637,557, May 5.
Optimum temper moisture determination in foundry sand. W. H. Moore. 2,637,212, May 5.
Order board. T. C. Griffin. 2,637,570, May 5.
Oscillator for AM-FM receivers. M. P. Herrick. 2,637,808, May 5.

Oven burner control mechanism. C. M. Mayer. 2,637,392, May 5.
Oven construction. R. E. Shaw and S. C. Peek, Jr. 2,637,754, May 5.
Package. F. W. Woodman. 2,637,441, May 5.
Paints and colored plastics, Manufacturing. M. H. M. Arnold. 2,637,535, May 5.
Panels for open hearth furnaces, Self-contained replaceable. R. P. Heuer. 2,637,286, May 5.
Paperboard carrier. H. W. Forrer. 2,637,480, May 5.
Paper drill. W. R. Spiller and L. L. West. 2,637,396, May 5.
Papermaking apparatus. B. E. Teale. 2,637,250, May 5.
Peeling and veining machine, Shrimp. N. Miller. 2,637,064, May 5.
Pen, Pocket marking. D. C. Wright. 2,637,466, May 5.
Pentaerythritol-degummed soybean oil-modified alkyd resins. P. E. Marling and A. R. Hempel. 2,637,708, May 5.
Perforating machine, Record controlled. C. R. Doty. 2,637,399, May 5.
Phonograph, Automatic. S. A. Stolberg. 2,637,550, May 5.
Phonograph with movable loading support and stack aligning member, Automatic record changer. B. N. Fisher. 2,637,558, May 5.
Photographic contact frame. A. and R. Pleydell and J. F. McIntyre. 2,637,255, May 5.
Piano action. P. F. Murdock. 2,637,238, May 5.
Pigment dispersions in water. L. Auer. 2,637,711, May 5.
Pipe: *See*—
Smoking pipe.
Pipe and conduit construction, Resistant. H. W. Jewell. 2,637,346, May 5.
Piston ring. H. M. Olson. 2,637,607, May 5.
Plant growth regulation. N. Tischler. 2,637,640–1, May 5.
Plant growth regulation. N. Tischler and E. P. Bell. 2,637,644–5, May 5.
Plant response agents. N. Tischler. 2,637,642–3, May 5.
Planting machine. O. G. Strauss. 2,637,287, May 5.
Platform, Offshore drilling. K. C. Howard. 2,637,172, May 5.
Pliers, Tube bending. O. Schopp. 2,637,231, May 5.
Plow and steering mechanism therefor, Disk. W. H. Silver and R. E. Cox. 2,637,258, May 5.
Plow, Reversible. C. W. Bets. 2,637,257, May 5.
Plow, Tractor mounted. W. H. Silver and R. E. Cox. 2,637,260, May 5.
Plucking machine, Poultry. G. W. Johnson. 2,637,067, May 5.
Pocketed beel and detachable arch support. J. Baer. 2,637,122, May 5.
Polymerizing isobutylene in the presence of N-butenes and ether. H. G. Schneider and P. W. Brakeley, Jr. 2,637,720, May 5.
Polymerizing oxygen. E. J. Ryan. 2,637,688, May 5.
Polymethine dyes. J. D. Kendall and D. J. Fry. 2,637,729, May 5.
Portable hand drill. B. W. Benbow. 2,637,225, May 5.
Portable tool heater. A. B. Staggs. 2,637,315, May 5.
Position adjustment locking device for warning lights. A. C. Heebler and T. E. McDowell. 2,637,840, May 5.
Position finding of electrical disturbances. H. Davis, S. Kass, J. F. Kelliher, and L. A. Pick. 2,637,841, May 5.
Powder metallurgy method of making steel cutting tools. H. A. Pavitt. 2,637,671, May 5.
Power transmission unit for sawmill carriages and the like. B. W. Andrus. 2,637,428, May 5.
Press: *See*—
Intaglio printing press. Printing press.
Pressure head, Electric. C. M. Hathaway. 2,637,210, May 5.
Pressure operated well apparatus. R. C. Baker and M. B. Conrad. 2,637,402, May 5.
Printing apparatus for calculating machines, Automatic. C. Wittenmyer. 2,637,493, May 5.
Printing apparatus, Stencil. J. B. Thomas. 2,637,269, May 5.
Printing press. J. R. Emery, Jr. 2,637,336, May 5.
Producing images on rigid surfaces. H. E. Copley. 2,637,651, May 5.
Production and separation of anhydrous alkali metal sulfate and boric acid. D. S. Taylor. 2,637,626, May 5.
Products and methods: reacting cashew nut shell liquid and polymers with unsaturated fatty acids. M. T. Harvey. 2,637,709, Apr. 5.
Propeller, Rubber-backed. S. G. Bart. 2,637,404, May 5.
Propeller spinner construction with boundary layer control. R. N. Wallace. 2,637,403, May 5.
Protection of alcoholic steroid hydroxyl groups. A. C. Ott and M. F. Murray. 2,637,728, May 5.
Protective device and electrical circuit. S. Mignocchi. 2,637,834, May 5.
Protective electric breakdown device. A. Longacre. 2,637,780, May 5.
Protector: *See*—
Collar protector.
Puller: *See*—
Car puller.
Pulley block. K. Huvendick and H. Wilhelmi. 2,637,524, May 5.
Pulling-over machine. E. L. Butler. 2,637,053, May 5.
Pump: *See*—
Rotary pump.
Punch for rimless cans. F. O. Brooks. 2,637,100, May 5.
Purification of cyclohexane. J. G. Aston and R. E. Black. 2,637,749, May 5.
Pyrazolones, Manufacture of. M. Schmid and E. Moser. 2,637,732, May 5.
Rack for bottled goods, Display. L. W. Patterson. 2,637,445, May 5.
Radio navigation apparatus. F. W. Cunningham. 2,637,848, May 5.
Random signal generator. R. L. Craiglow. 2,637,845, May 5.
Raw sulfite acid, Preparing. G. Haglund. 2,637,627, May 5.
Rayon yarns, Continuous manufacture of. R. H. McKee. 2,637,060, May 5.
Razor blade gauge and method. A. Wiebe. 2,637,116, May 5.
Razor, Safety. B. S. Cutler. 2,637,101, May 5.
Reaction of silanes with aliphatic unsaturated compounds. G. H. Wagner. 2,637,738, May 5.
Reading device, Tape or web. E. Congdon. 2,637,129, May 5.
Receptacle for bakery products. A. B. Stotter. 2,637,617, May 5.
Receptacle for lipsticks. Mildred and Madeleine Lodewick. 2,637,440, May 5.
Receptacle support. W. R. Young. 2,637,518, May 5.
Recessing attachment. D. H. Montgomery. 2,637,237, May 5.
Record controlled assembly jig. H. P. Luhn. 2,637,096, May 5.
Record punching machine and recording machine control by said punched record. T. J. Watson and S. Brand. 2,637,398, May 5.
Recording plan position indicator. G. E. Valley, Jr. 2,637,846, May 5.
Recovery of cerebrosides. R. H. Sifferd. 2,637,726, May 5.
Recovery of fatty acid values from aqueous liquids containing such values. F. S. Gibbs. 2,637,737, May 5.
Rectifier. G. Tumulo. 2,637,771, May 5.
Reel: *See*—
Fishing reel. Tension control reel.
Refrigerated storage, dispensing, and display cabinet. J. A. Galazzi, W. D. Jordan, and P. D. Van Vliet. 2,637,178, May 5.
Refrigerating apparatus, Modulating. D. F. Alexander. 2,637,175, May 5.
Refrigerating system for multiple-compartment refrigerators. F. A. Schumacher. 2,637,176, May 5.
Refrigeration unit, Nonreciprocating. W. P. Austin. 2,637,174, May 5.
Regulator: *See*—
Fluid-flow regulator.
Releasing frozen confections from molds, Method and apparatus for. K. Efthios. 2,637,668, May 5.
Releasing mechanism for use in paper carton vending apparatus. R. Warner and H. B. Smalley. 2,637,612, May 5.
Remotely controlled and indicating probe actuation. L. C. Smith. 2,637,842, May 5.
Resonant cavity filter. H. Magnuski. 2,637,782, May 5.
Ridge reamer. W. F. Mitchell. 2,637,224, May 5.
Ring: *See*—
Piston ring. Slush pump seal ring.
Ring dressing device. J. M. Scott. 2,637,146, May 5.
Rinse arm connection. G. B. Fox and D. B. Dickhart. 2,637,595, May 5.
Roasting sulfide ores. W. K. Lewis. 2,637,629, May 5.
Rod aligner, Connecting. G. M. Graham. 2,637,118, May 5.
Rosary cross case. F. X. and G. C. Menz. 2,637,436, May 5.
Rotary pan filter. D. M. Schwartz. 2,637,443, May 5.
Rotary pump. F. R. McFarland. 2,637,275, May 5.
Rotational seismometer. R. G. Piety. 2,637,839, May 5.
Running of industrial furnaces, Process of and means for the continuous. G. Zotos. 2,637,544, May 5.
Safety cutoff valve. T. J. Sullivan. 2,637,331, May 5.
Safety electric fuse connector. W. Koreckl. 2,637,793, May 5.
Safety latch. C. D. Best. 2,637,579, May 5.
Saliva ejector. G. A. Otis. 2,637,106, May 5.
Sausage making machine. W. Kofler. 2,637,068, May 5.
Saw blade, Hack. W. R. Chapin. 2,637,355, May 5.
Saw horse with a shiftable tool tray. C. O. Larson. 2,637,358, May 5.
Scale, Weighing. H. A. Hadley. 2,637,546, May 5.
Scoop, Dustless ash. J. Burke. 2,637,588, May 5.
Scraper, Earth. R. L. Miller. 2,637,123, May 5.
Sealed variable length cell and positioner. A. D. Herbert. 2,637,817, May 5.
Sealing means for feed and discharge conduits of centrifugal separator bowls. H. C. Fitzsimmons. 2,637,491, May 5.
Seat: *See*—
Adjustable seat.
Seat and cover, Combined. J. R. Willetts. 2,637,373, May 5.
Securing coat linings and the like to coats. R. W. Persico. 2,637,037, May 5.
Self-sealing coupling. J. N. Bruce. 2,637,572, May 5.

Selvedge for woven fabrics. H. J. Cooper. 2,637,351, May 5.
Separable fastener. B. Madsen. 2,637,085, May 5.
Series reactance transformer. J. I. Bohnert. 2,637,781, May 5.
Setscrew, Self-locking. C. E. Nagel. 2,637,361, May 5.
Sewer cleanout implement. W. F. Anderson. 2,637,058, May 5.
Sewing machine construction, Overedge. N. L. Wallenberg and A. M. Schweda. 2,637,291, May 5.
Shaped article and producing it. A. Cresswell. 2,637,321, May 5.
Shears, Electric. R. O. Hooker. 2,637,103, May 5.
Sheave. L. K. Morey. 2,637,214, May 5.
Sheet. E. M. and E. L. Kromer. 2,637,049, May 5.
Sheet cutting machine. M. J. Fey. 2,637,394, May 5.
Sheet delivery apparatus for printing machines. A. W. Ranger. 2,637,553, May 5.
Shelf for chairs, Writing. C. J. Barecki. 2,637,367, May 5.
Shield for rear-vision automobile mirrors, Glare. J. Wolk. 2,637,246, May 5.
Shift control for auxiliary transmissions. T. Backus. 2,637,222, May 5.
Shock absorber. W. G. Patriquin. 2,637,414, May 5.
Shock absorbing means for aircraft seats. R. B. Cotton. 2,637,368, May 5.
Shoe fastener. C. B. Forrester. 2,637,087, May 5.
Shutoff valve. J. Troendle. 2,637,338, May 5.
Shuttle binder. V. J. Phillips and H. H. Brown. 2,637,350, May 5.
Sight string. W. L. Willis. 2,637,109, May 5.
Silicon carbide articles and making same, Bonded. K. C. Nicholson. 2,637,091, May 5.
Siloxane compositions and making same. J. E. Dereich. 2,637,719, May 5.
Size grading device. O. B. Hartrampf. 2,637,442, May 5.
Sled, Ski. O. F. Lantry. 2,637,565, May 5.
Sleeping bag. W. Peters and W. Drummond. 2,637,048, May 5.
Slip. S. Roodner. 2,637,036, May 5.
Slush pump seal ring. W. E. Pielop, Jr. 2,637,606, May 5.
Smoking pipe. P. Nadelson. 2,637,327, May 5.
Snap-hook. H. G. Foster. 2,637,068, May 5.
Soaplike compositions and making same. L. D. Galthe. 2,637,899, May 5.
Soap package. M. S. Banks. 2,637,439, May 5.
Socket, Electric outlet. C. E. Woodside, W. R. Smith, A. L. Woodside, and Z. A. Armstrong. 2,637,790, May 5.
Socket, Electrical plug and wall. J. Zalduondo. 2,637,765, May 5.
Socket for instrument panel lighting, Lamp. J. M. Roper and T. O. Twist. 2,637,802, May 5.
Sound insulating strip member for sinuously corrugated wire springs. W. H. Neely. 2,637,046, May 5.
Sound producing device. S. L. Graham and H. H. Howard. 2,637,293, May 5.
Sound-recording apparatus, Magnetic. A. M. B. Charlin. 2,637,785, May 5.
Sound reproducing device using endless recording tapes. G. P. Smith. 2,637,560, May 5.
Speed regulating apparatus for fluid driven prime movers. C. H. Langworthy. 2,637,332, May 5.
Spiral drive. W. B. Ashworth. 2,637,366, May 5.
Spotting board. F. H. Richterkessing. 2,637,192, May 5.
Spray unit for tractors. R. T. Spedding. 2,637,594, May 5.
Spring-plate valve. J. Ferrari. 2,637,519, May 5.
Stake pointer. C. D. and L. I. Skates. 2,637,356, May 5.
Staple support slide and feed means for stapling machines. H. W. Marano. 2,637,029, May 5.
Stapling machine with guiding element. G. E. Wickman and W. R. Young. 2,637,030, May 5.
Steam finisher for fabrics. C. W. Roberts. 2,637,125, May 5.
Steels and alloys for rolling, Preparing. W. O. Binder. 2,637,667, May 5.
Steering knuckle. J. H. Booth and A. W. Gair. 2,637,568, May 5.
Stepback mechanism for dictating machine playback arms. D. F. Balmer. 2,637,562, May 5.
Sterilizer. A. T. and T. A. Hashem. 2,637,077, May 5.
Sterilizing device, Grain. H. R. Klink. 2,637,624, May 5.
Steroid-17-carboxylic acids, Preparation of. A. Wettstein and C. Meystre. 2,637,735, May 5.
Stiffening element for body-supporting garments, Flexible. C. Bachmann. 2,637,041, May 5.
Stitching mechanism, Multiple needle. V. J. Sigoda. 2,637,290, May 5.
Stretcher, Curtain. W. Karas. 2,637,135, May 5.
Stripping of mirror backing. K. E. Brown, F. E. Clark, and C. E. Jackson. 2,637,669–70, May 5.
Strut or spreader system for folding photographic cameras. F. Fanihaber. 2,637,254, May 5.
Stud for explosive installations. C. R. Webber and V. R. Erickson. 2,637,241, May 5.
Stuffing olives. G. W. Ashlock, Jr. 2,637,653, May 5.
Styline-protecting device. J. A. Rescsanski and J. R. Hopkins. 2,637,563, May 5.
Suction cup and mounting. C. G. Schulz and A. S. Kedzie. 2,637,589, May 5.
Sulfonaccinic acid polyesters of fatty acid monoglycerides. J. T. Thurston. 2,637,663, May 5.
Sulphonated (Ba-1-benzanthronyl)-1-aminoanthraquinone compounds. A. Peter and J. Günthart. 2,637,734, May 5.
Sundial, Adjustable and movable. E. A. Viesturs. 2,637,108, May 5.
Superregenerative system for receiving angular-velocity-modulated wave signals. D. Richman. 2,637,807, May 5.
Supplementary fuel. E. J. McLaughlin, G. H. Denison, Jr., and M. R. Barusch. 2,637,635, May 5.
Supply roll mounting means for dispensing cabinet. R. G. Birr. 2,637,503, May 5.
Support: *See*—
Display support. Receptacle support.
Pocketed heel and detachable arch support.
Support for electron tube and circuit, Pluggable. R. L. Palmer. 2,637,763, May 5.
Support means for slidable jaw wrenches. V. Licari. 2,637,235, May 5.
Suppressing arcing at contacts breaking a direct current inductive circuit, Means for. A. H. B. Walker. 2,637,769, May 5.
Surface-active products. E. L. Doerr. 2,637,701, May 5.
Surgical armboard attachment. L. M. McDonald. 2,637,608, May 5.
Switch: *See*—
Inertia switch. Temporary load switch.
Temperature alarm switch. Transmission line switch.
Switch. R. M. Critchfield and J. W. Lawson. 2,637,789, May 5.
Switch for escalators, Safety. O. Hohnecker. 2,637,432, May 5.
Switch mechanism for electric ranges and the like, Indicator. K. M. Hammell. 2,637,800, May 5.
Synthesis of octyl alcohols. P. T. Parker. 2,637,746, May 5.
Synthesis of organic compounds. H. G. McGrath. 2,637,739, May 5.
System of cooling dwellings. A. O. Schramm. 2,637,181, May 5.
Tachistoscope. V. M. O'Flaherty. 2,637,130, May 5.
Tandem suspension for tractors and trailers. G. M. Turner. 2,637,569, May 5.
Tapped insert driver. B. A. McKean. 2,637,232, May 5.
Tappet adjusting-tool. R. E. Lee. 2,637,229, May 5.
Tappet, Self-adjusting mechanical. J. W. Humphreys. 2,637,309, May 5.
Tapping machine. H. J. Woock. 2,637,052, May 5.
Taximeter. R. Winch. 2,637,492, May 5.
Telescopic rotor blades and brakes therefor. V. Isacco. 2,637,406, May 5.
Temperature alarm switch. J. T. Grotenhouse. 2,637,794, May 5.
Templet. M. A. McHugh. 2,637,114, May 5.
Temporary load switch. D. C. Hubbard. 2,637,795, May 5.
Tension control reel. C. B. Blessing. 2,637,504, May 5.
Tension device. J. W. I. Heijnis. 2,637,511, May 5.
Terminal means for logging gears, Main line. D. L. Maxfield and A. A. Rue. 2,637,591, May 5.
Testing asphaltic concrete, Method of and apparatus for. M. G. Spangler and T. Y. Chu. 2,637,198, May 5.
Textile decorating pigment color composition containing a phenol-epihalohydrin condensation product. L. Auer. 2,637,621, May 5.
Textile treating compounds and applying them to textiles. J. R. Janes. 2,637,623, May 5.
Theft prevention device, Automobile. W. R. and H. L. Burk. 2,637,407, May 5.
Thermomagnetic transducer. L. J. Anderson and M. E. Hawley. 2,637,823, May 5.
Thermosensitive papers and compositions therefor. K. V. Ozois. 2,637,657, May 5.
Through-feed machine for treating sheet materials. D. B. McIlvin and A. R. Abbott. 2,637,193, May 5.
Time cycle controller. J. R. Davidson. 2,637,835, May 5.
Time-delay attachment for wall switches. C. H. Bracken. 2,637,788, May 5.
Tire chain cross-link and anchor assembly. A. H. Perlman. 2,637,363, May 5.
Tire tread, Stone-ejecting. W. F. R. Briscoe and V. H. Berry. 2,637,362, May 5.
Toaster, Electric. R. H. Gardner. 2,637,267, May 5.
Tool: *See*—
Cutting tool. Tappet adjusting tool.
Hand-guided and chain-driven bark-removing tool. Tube working tool.
Well bore retrieving tool.
Tool for applying sheet metal fasteners to studs. G. A. Tinnerman and L. H. Flora. 2,637,230, May 5.
Toolhead, Flange bending. F. F. George, Jr. 2,637,292, May 5.
Tooth file, Removable. B. Sakren. 2,637,097, May 5.
Tooth paste dispenser. A. Wekerle. 2,637,468, May 5.
Torque transmitting device employing extensible resilient clutch elements. H. T. Kraft. 2,637,345, May 5.
Towel bar. W. L. Spangler. 2,637,446, May 5.
Toy airplane. J. R. Harris. 2,637,139, May 5.
Toy dart, Detonating. J. S. Kahn. 2,637,142, May 5.

Toy, Musical. D. De Nisco. 2,637,141, May 5.
Toy vehicular system. J. M. Hoff. 2,637,140, May 5.
Tractor power lift with rock-shaft and synchronized remote cylinder. R. D. Acton. 2,637,259, May 5.
Transferring designs. L. Jackson. 2,637,271, May 5.
Transformer, Combined voltage and current. A. Meyerhans and H. Hartmann. 2,637,821, May 5.
Transmission. J. S. Alspaugh. 2,637,220, May 5.
Transmission, Adjustable speed. J. D. Rieger. 2,637,215, May 5.
Transmission, Automatic. J. C. Taylor. 2,637,217, May 5.
Transmission jack. C. F. Hamer. 2,637,449, May 5.
Transmission line switch. G. W. Price. 2,637,787, May 5.
Transmission operating mechanism. R. H. Long and E. E. Prather. 2,637,425, May 5.
Transmission operating mechanism. E. R. Price. 2,637,216, May 5.
Transmitter, Operator identifier. R. L. Thompson. 2,637,844, May 5.
Transparency viewer. L. C. and T. R. Helms and M. Browneye. 2,637,132, May 5.
Trap: *See*—
Burglar trap. Vapor trap.
Traveling-saw machine with automatic guard. A. Hyslop, Jr. 2,637,353, May 5.
Tray for use with air abrasive techniques, Dental isolation. B. J. Daigle. 2,637,107, May 5.
Tray, Posting. S. Segal. 2,637,324, May 5.
Treating fluid medium, Method and apparatus for. O. Yadoff. 2,637,408, May 5.
Treating foliage crops and the like. F. W. Steere. 2,637,121, May 5.
Treating yarn. L. P. Miller. 2,637,658–9, May 5.
Treatment of bauxites. I. De Vecchis and O. E. Ramuz. 2,637,628, May 5.
Treatment of electric lamp envelopes. A. J. Sharkey. 2,637,830, May 5.
Trip rope tensioning and releasing device. A. E. Gill. 2,637,510, May 5.
Try-on garment hanger. L. R. Lyons. 2,637,472, May 5.
Tub assembly for washing machines. T. R. Smith. 2,637,188, May 5.
Tube: *See*—
Ion-trap cathode-ray tube.
Tube holder with tube collapsing means and brush supports, Collapsible. A. J. Campagna. 2,637,467, May 5.
Tube with movable target electrode, Projection. V. Trad. 2,637,829, May 5.
Tube working tool. R. D. McIntosh. 2,637,227, May 5.
Tufting machine. O. Grant, Jr., and C. H. Jackson. 2,637,289, May 5.
Tumbler, Double-walled. G. H. Davis. 2,637,182, May 5.
Turbine with evacuated chamber and rotor element therefor, Pure reaction. J. M. Carswell. 2,637,166, May 5.
2-methylchlorophenoxyacetate herbicides. F. Talbot and R. T. Foster. 2,637,639, May 5.
Two-row implement. A. A. Schmitz. 2,637,263, May 5.
Undergarment, Insulated. M. S. Hersog. 2,637,035, May 5.
Unloading system for compressors. C. Yeomans. 2,637,485, May 5.
Upholstery. J. D. Flynn. 2,637,137, May 5.
Utensil, Cooking. O. M. Burkhardt. 2,637,463, May 5.
Utensil, Double boiler cooking. O. F. Jordan. 2,637,459, May 5.
Valise with permutation lock. A. V. Pietri. 2,637,194, May 5.
Valve: *See*—
Electroinductively actuated valve. Safety cutoff valve.
Emergency valve. Shutoff valve.
Hydraulic actuated valve. Spring-plate valve.
Valve. O. H. Ludeman. 2,637,520, May 5.
Valve and electromagnetic control therefor, Gas. R. B. Matthews. 2,637,343, May 5.
Valve device, Fluid pressure control. D. R. Borst. 2,637,341, May 5.
Valve device, Pressure control. A. J. Bent. 2,637,340, May 5.
Valve for shock absorbers. E. L. Martin. 2,637,337, May 5.
Valve mechanism for reciprocating fluid motors. H. T. Dinkelkamp. 2,637,304, May 5.
Valve testing apparatus. J. F. Kaney. 2,637,197, May 5.
Vane generating machine. G. F. Wislicenus and P. C. Zumbusch. 2,637,248, May 5.
Vapor trap. W. S. Goff. 2,637,335, May 5.
Vehicle lift unit for docks. A. E. Rowe. 2,637,454, May 5.
Velocity measuring by use of high energy electrons. G. L. Mellen. 2,637,208, May 5.
Vending machine, Gum. E. R. Sabin, B. A. Andrews, and L. A. Shontz, Jr. 2,637,610, May 5.
Venetian blind bar organization and fitting. H. Nelson. 2,637,382, May 5.
Vented fluid dispensing container. H. Wolcott. 2,637,470, May 5.
Vibration absorbing mount. B. E. O'Connor. 2,637,514, May 5.
Vinyl halide, Plasticized. W. S. Emerson and R. I. Longley, Jr. 2,637,714, May 5.
Volume control, Tone compensated. G. T. Kodama. 2,637,778, May 5.
Washing machine, Clothes. D. K. Ferris. 2,637,190, May 5.
Washing machine with a rotatable tub and a concentric basket. T. R. Smith. 2,637,187, May 5.
Water dispenser. J. R. Mumma. 2,637,819, May 5.
Water gate. A. T. Black. 2,637,171, May 5.
Water-spray gun for attachment to pressing irons. F. H. Richterkessing. 2,637,397, May 5.
Wave guide window, Sealed. R. C. Edson. 2,637,776, May 5.
Web tension control for printing presses. K. G. Laycock. 2,637,506, May 5.
Web tensioning means. K. G. Laycock. 2,637,505, May 5.
Welded railway car truck frame. E. J. Charlton and L. W. Edwards. 2,637,279, May 5.
Well bore retrieving tool. J. E. Ortloff. 2,637,590, May 5.
Well drilling device. J. B. Andrews, Jr. 2,637,527, May 5.
Well tester. L. E. Brown and O. W. Williams. 2,637,400, May 5.
Wheel and axle assembly for variable tread vehicles, Adjustable. T. Brown and G. Ickes. 2,637,598, May 5.
Wheel mounting for boats, Detachable. F. A. Oliver. 2,637,050, May 5.
Wheel slide indicator and control mechanism for diesel and electric locomotives. W. O. Martin. 2,637,806, May 5.
Wheel unit for transporting boats, Detachable. W. W. Singleton. 2,637,567, May 5.
Window, Automatically operated jackknife. W. A. Bowman. 2,637,383, May 5.
Window, Jackknife. W. A. Bowman. 2,637,381, May 5.
Window operator. M. Gzupkaytil. 2,637,548, May 5.
Window pane securing strip. E. L. Bell. 2,637,422, May 5.
Wire fabric bending and feeding apparatus. R. F. Stockton. 2,637,365, May 5.
Wood preservation. E. E. Pershall. 2,637,691, May 5.
Work holder for grinding machines. H. A. McQuary. 2,637,150, May 5.
Work rest and wheel mount. W. B. Boice. 2,637,151, May 5.
Wrecker. E. W. Holmes and E. W. Holmes, Jr. 2,637,448, May 5.

CLASSIFICATION OF PATENTS

ISSUED MAY 5, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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Classification of Designs

D 3— 9: Des. 169,524
13: Des. 169,486
Des. 169,523
D10— 8: Des. 169,508
D14— 6: Des. 169,469
30: Des. 169,514
D15— 8: Des. 169,473
Des. 169,485
D16— 1: Des. 169,477
D20— 4: Des. 169,510

D20— 4: Des. 169,511
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D44—22: Des. 169,526
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D54— 2: Des. 169,516
D56— 9: Des. 169,512
D57— 1: Des. 169,471
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D78— 1: Des. 169,522

D80— 9: Des. 169,509
D83— 1: Des. 169,491
Des. 169,515
D85— 2: Des. 169,483
Des. 169,484
Des. 169,507
D86— 8: Des. 169,470
D87— 5: Des. 169,517
D92— 1: Des. 169,474

U. S. GOVERNMENT PRINTING OFFICE: 0—1963

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

JOSEPH W. JIRA

v.

ERNST WEBER AND JOHN W. E. GRIEMSMANN

No. 5891. Decided February 6, 1953

[F.2d – : – USPQ –]

1. INTERFERENCES—RIGHT TO MAKE COUNTS—DISCLOSURE NEED NOT INCLUDE THAT WHICH WAS KNOWN TO THE ART.

Held that the Board was correct in its finding of sufficient disclosure in the senior party's parent application, although the disclosure is brief, since it is made clear that the metallic solutions are metal resinates, that the solutions contain two or more noble metals, and evidence was presented to show that the applicable properties of the substances were known to the art.

2. SAME—PRIORITY OF INVENTION—ELECTRICAL RESISTANCE UNIT.

Evidence reviewed and the decision of the Board of Interference Examiners awarding priority of invention of the counts in issue to appellee is affirmed, since the appellant failed to present evidence properly corroborating his claim of prior conception and reduction to practice.

APPEAL from Patent Office. Interference No. 83,645.

AFFIRMED.

Woodling & Krost (*George V. Woodling, Ray S. Pyle* and *Bruce B. Krost* of counsel) for appellant.

Ralph B. Stewart for appellees.

GARRETT, *Chief Judge:*

This is an appeal from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority to joint inventors Weber and Griemsmann (hereinafter often referred to in the singular as the senior party), in an interference proceeding respecting, as stated in the Board's description, "a film of an alloy of noble metals on a non-conductive carrier, and to a process of preparing the article by the use of a metallic organosol."

The following counts are involved:

1. An article of manufacture comprising a non-conductive carrier, an alloy film of at least two substantially stable and non-oxidizable metals tightly bonded to said carrier, and electrical terminal means for said alloy film.

2. An article of manufacture comprising a non-conductive carrier having a tightly bonded conductive film thereon, said film comprising an alloy of at least two materials, one of said at least two materials having a positive coefficient of resistance, and the other of said at least two materials having a negative coefficient of resistance, said materials being proportioned in said alloy to produce a resultant coefficient of resistance of a predetermined value.

3. The process of constructing a metallic film on a non-conductive carrier, comprising providing a mixture of at least two metallic organo-compound resinates of substantially stable and non-oxidizable alloyable metals, coating the non-conductive carrier with the mixture, drying the coated carrier and thereafter heating same to decompose the organoresinates and precipitate the metals therefrom as an alloy upon the non-conductive carrier and to remove any carbonaceous residue remaining after said precipitation.

In the brief filed on behalf of Weber et al. the subject matter is defined as follows:

The invention covered by the counts relates to electrical resistance units and to the method of forming these units. In particular, the resistance units are of the type wherein the resistance element is formed as a thin metallic film deposited on the surface of a non-conducting carrier, such as a glass tube or a porcelain tube. The resistance element is formed by coating the surface of the carrier with a liquid solution formed of a *mixture* of two different metal resinates selected from the noble metal group and being *alloyable*. This coating is permitted to dry and is then heated or fired to a temperature sufficient to decompose the resinates and thereby precipitate a thin metallic film upon the surface of the carrier, the film being formed of an *alloy* of the two metallic resinates. The firing is at a temperature sufficient to remove any carbonaceous residue remaining in the precipitated film. [Italics quoted.]

The Jira patent discloses the use of a mixture of gold resinate and palladium resinate, while Weber et al. discloses the use of a mixture of palladium resinate and platinum resinate.

Counts 1 and 2 cover the resistance units which result from the process described above and count 3 covers the process.

The involved application of Weber et al., Serial No. 2,705 was filed January 16, 1948, as a division of an application, Serial No. 540,347, filed June 14, 1944, which matured into Patent No. 2,529,436, issued November 7, 1950.

The involved application of the party Jira was filed March 7, 1945, and matured into Patent No. 2,440,691, issued May 4, 1948.

The counts correspond to claims in the Jira Patent No. 2,440,691, which were copied into the Weber et al. application, Serial No. 2,705.

Weber et al. received the benefit of the filing date of the parent application, Serial No. 540,347, i. e., June 14, 1944, and thus became the senior party. Hence, Jira, as the junior party, had the burden of establishing priority in fact by a preponderance of evidence, provided the specification of the senior party's parent application was sufficient to support the counts.

In appellant Jira's reasons of appeal, numerous allegations of errors are asserted, but the issues presented to us are epitomized in the brief on his behalf as follows:

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1. Jira contends that he has shown ample corroboration of a proper conception, diligence to a reduction to practice, and actual sale of merchandise made according to the counts in issue, all prior to the Weber et al. filing date. The Board has held that there is not proper corroboration.

2. Jira contends that there is not a proper disclosure in the Weber and Griemsmann specification as required by R. S. 4888 to support the counts. The Board has ruled the disclosure to be sufficient, although conceding that Weber et al. is brief and uses words which are perhaps not well chosen.

In its decision, the Board passed first upon the contention of Jira that there was not sufficient disclosure in the Weber et al. patent application to make claims corresponding to the counts, holding that the disclosure was sufficient.

In the brief for Jira before us that question is the last discussed.

If Jira's contention upon that point should be sustained, it would seem that a holding to that effect would be conclusive of the controversy and it would be unnecessary to consider whether the Board erred in holding that there was lack of corroboration of Jira as to conception and reduction to practice.

We therefore follow the logical order which was adopted by the Board.

The Board discussed count 3 separately from counts 1 and 2, seemingly because a question was raised before it as to the propriety of including count 3 in the interference. (It was added in a redeclaration, only counts 1 and 2 having been included in the original declaration.) After its discussion, the Board ruled:

For the above reasons we are of the opinion that the Primary Examiner was correct in permitting the amendment of the issue to include count 3 with the party Weber et al. in the status of senior party as to that count.

No issue as to that holding was presented before us and the issue as to disclosure relates to all three counts.

Upon this issue we quote the following from the Board's decision:

The basis of the objections of the party Jira goes to the identity of the solutions used in painting the carrier. The disclosure of the party Weber et al. is brief on this point and uses words which are perhaps not well chosen, but it is clear that the so called metallic solutions that are to be used are metal resinates and that the solutions contain two or more noble metals. If such materials were novel at the time of writing the specification and the film producing behavior of these substances were unknown, the description would be insufficient to enable a person of ordinary skill in the art to obtain the proper starting materials. However, from the testimony of Johnson, a witness called by the junior party, it is clearly established that resinates of the noble metals are commercial products that had been used many years prior to the entry of either of these parties into the field for the production of metal coatings on ceramics and glassware for ornamental purposes. It appears therefore that there was an established industry pertaining to these materials to which the reader of the specification could apply to obtain the materials and be informed of the general manner of their use to produce films on fire resisting bases. Since the applicant for a patent is not required to fully discuss or describe that which is well known, the specification of the party Weber et al. cannot be held to be defective in this regard. With the nature of the material establishable, the steps and conditions of the process by which the metal film is produced upon the carrier is specifically given. There is no question therefore but what the specification of Weber et al. explicitly supports claims corresponding to counts 1 and 2.

Count 3 was then discussed, and under the ruling as to it, quoted supra, the holding as to counts 1 and 2 applies also to count 3.

The argument upon the point of disclosure in the brief for Jira is somewhat perplexing.

One of the witnesses called to testify in corroboration of Jira's testimony respecting his claimed conception, reduction to practice, etc., was Mr. Glenn F. Benkelman, President of Continental Carbon Company, assignee of the patent to Jira, vice-president and director of research of that company.

In the brief it is alleged in substance that Weber et al. tell the public no more in their specification than was told to Jira and Benkelman by a Dr. Hovorka,[1] professor of physical chemistry at Western Reserve University, whom they visited in 1939, seeking certain information, an incident hereinafter again alluded to; that Weber et al. "have failed to teach more than a naked suggestion"; that after a restudy of the Jira office actions and amendments for both Jira patents, 2,281,843 (not involved here) and 2,440,691 (which is involved), "Jira is convinced that, had not this interference been declared and the Weber and Griemsmann application taken from the Examiner in charge, the specification would have been found insufficient"; that it is Jira's teaching that makes the Weber et al. specification understandable, if at all; and the brief continues:

This study of the amount and type of knowledge which Mr. Benkelman must possess to be a proper corroborating witness, and the study of the amount of teaching contained in the Weber and Griemsmann specification with respect to R. S. 4888 leads Jira to believe that this court should be faced with the choice of two conclusions. Either the Weber and Griemsmann specification is entirely inadequate since it is so very short and general in its suggestion that two noble metal resinate solutions can possibly be used to form a conductive film, or the very fact that Benkelman was possessed of the knowledge that Jira actually used two resinates instead of one, as the production methods were at that time, is sufficient corroboration. It seems inconceivable that such a short and general specification can be held to be adequate, and also hold that Benkelman could work in close harmony with Jira and not know what he was doing in sufficient detail to satisfy the counts in issue. The disclosure possessed by Benkelman from Jira is far more complete with respect to the subject matter of the counts than the disclosure of Weber et al., which of necessity must support the counts to form a basis for the interference.

The purport of the argument taken as a whole seems to be, as is suggested in the answering brief for Weber et al., "to the effect that if the court finds the Weber et al. application disclosure to be adequate, it should also find that Mr. Benkelman had knowledge of Jira's invention sufficient for corroboration."

That argument seems to us to present a non sequitur, and we agree with the statement in the brief for Weber et al. that "there is no connection between the completeness of the Weber et al. disclosure and the question of fact concerning Mr. Benkelman's knowledge of Jira's invention prior to June 14, 1944."

[1] The court would not be justified, particularly in view of the undisputed testimony of Jira's witness Johnson, referred to in the excerpt from the Board's decision quoted supra, in holding that the Board erred in its finding of sufficient disclosure in the parent application of Weber et al.

[1] Jira testified that he contacted Dr. Hovorka who suggested the use of metal organosols for the purpose of precipitation of metals at low temperatures. He does not mention the time nor does he state that Benkelman was with him, but Benkelman testifies to a visit by himself and Jira to Dr. Hovorka in July 1939.

This brings us to the consideration of the first allegation epitomized in the brief for Jira from the numerous assignments of error embraced in his reasons of appeal to us, which, for convenience, we here repeat:

1. Jira contends that he has shown ample corroboration of a proper conception, diligence to a reduction to practice, and actual sale of merchandise made according to the counts in issue, all prior to the Weber et al. filing date. The Board has held that there is not proper corroboration.

It should be understood that Weber et al. introduced no testimony and so are restricted to the filing date of their patent application for conception and reduction to practice, that date being June 14, 1944. No preliminary statement was filed on their behalf.

In Jira's preliminary statement the alleged:

• • • that on or about the 16th day of March 1940, he first made a written description of the invention; that on or about the 16th day of March 1940, he first disclosed his invention to others; that on or about January 11, 1940, he received from the Harshaw Chemical Company of Cleveland, Ohio the specific ingredients for constructing his invention; that on or about March 16, 1940, he reduced his invention to practice; and that on or about the 16th day of March 1940, the said invention was first successfully tested in the city of Cleveland, county of Cuyahoga, and State of Ohio, and that he began actively exercising reasonable diligence in adapting and perfecting the invention on or about the 11th day of January 1940, and that no drawing of the specific embodiment of the invention was made until application was prepared to file for patent protection.

It appears from the record that the Continental Carbon Company, hereinbefore mentioned, a corporation of the State of Ohio, located at Cleveland, which is the assignee of the Jira patent here involved, was organized by Mr. Glen F. Benkelman in 1923. He became president of the company when it was organized and continued in that capacity, being such at the time he testified in this case in September 1950. He graduated from Purdue University in 1914, receiving two degrees, both relating to engineering. Subsequent to his graduation, he worked for different companies as "engineer in charge of the laboratories and research work connected therewith," until he organized the carbon company.

Continental Carbon Company began making carbon composition resistors—i. e., electrical resistant devices having a film of carbon as the resistant element—in 1924.

In 1939–40, it developed a metal resistor which, according to the testimony, it began to sell in 1940. It was described by Benkelman in his testimony as "a single monofilm of palladium resinate type" and it was covered by Patent 2,281,843, hereinbefore alluded to, issued to the party Jira May 5, 1942, and assigned to the Continental Carbon Company.

As we understand the case, the principal patentable distinction between Jira's Patent 2,281,843 and his patent here involved, No. 2,440,691, is that the former was for a resistor film made from single metallic resinates, while the latter is for a resistor film made from a mixture of metal resinates forming an alloy.

A copy of Patent No. 2,281,843 was introduced in evidence as Jira's Exhibit A, and a copy of Patent 2,440,691 as Jira's Exhibit B.

Of Exhibit A Jira testified:

This patent relates to the deposition of a single metal like palladium, or a metal of the noble metal group, upon a non-conductive carrier for the purpose of fabricating a resistor.

Of Exhibit B he said:

Mainly what this patent introduces is the use of two or more noble metals in the fabrication of a resistor.

Asked to distinguish the patents, he said:

• • • in that first patent [Exhibit A] it naturally deals with only a single film, whereas the second patent [Exhibit B] deals with an alloy film.

He was asked what led him to make the invention of Exhibit B and he responded:

Due to the fact that the first invention deals primarily with the deposition of a single coat, that unit had a temperature coefficient which was in excess of the temperature coefficient which we required for making resistors of very high accuracy. Therefore, in order to be able to control the temperature coefficient, as well as the low values that we were not being able to obtain with the use of the single film, led me to the use of an alloy film, such as is described in this patent.

At the time he testified in September 1950, the party Jira stated that he was vice president and director of research of Continental Carbon Inc.; that he had been connected with the company for 20 years; that he started as "plant hand, and was promoted to engineering, and then later in charge of the laboratory"; that he had been in charge of it for approximately 17 years; that he was a member of different engineering fraternity organizations and of the American Association for the Advancement of Science; and that his duties in charge of research were manyfold. He stated that he was an employee of the company and not an official at the time he made the invention here involved.

That he became an inventor is evidenced by several patents issued to him.

The question here is whether he was the first inventor of the subject matter involved in his Patent 2,440,691 and, in the final analysis, that apparently is to be determined by ascertaining whether the evidence introduced to corroborate his own testimony meets the well established practice relating to corroboration in interference proceedings.

It is noted that in the brief for Weber et al. it is claimed in effect that Jira's own testimony taken in connection with experiments he claims to have performed would not establish conception of count 1 even if fully corroborated. It is conceded in the brief that one of the experiments upon which Jira relies would establish conception as to counts 2 and 3 "if properly authenticated and corroborated," but the claim of corroboration is vigorously challenged.

It is not clear to use from the decision of the Board, whether or not the contention as to a lack of showing of conception by Jira was presented before the Board, but however that may have been, the Board, after briefly reviewing certain of the evidence adduced on behalf of Jira, stated:

There is some dispute between the parties as to whether the process in which alternate layers of different metals produced, under the circumstances of the experiment, an alloy or merely a laminate of thin metal films. We do not consider it necessary to determine this question because it is our view that the testimony of Jira with respect to these experiments is uncorroborated and cannot therefore be accepted as either establishing conception or proving reduction to practice.

The Board then reviewed the testimony respecting corroboration and held corroboration to be lacking.

It is obvious that if the Board's decision on the question of corroboration is correct, the above-recited contentions are, so far as this proceeding is concerned, immaterial even if sound. Logically, therefore, the matter of corroboration should be given our first consideration.

Much of the evidence adduced on behalf of the party Jira is valueless because it relates to experiments made long subsequent to the date named in his preliminary statement and subsequent to the filing date awarded Weber et al.

Upon the basis of his preliminary statement the material part of which is quoted, supra, his crucial date for both conception and reduction to practice is March 16, 1940, or at least not later than that date.

There was introduced in evidence as Jira's Exhibit H, a notebook which contained certain notations that he testified were records of laboratory experiments carried out by him on four different days in March 1940, viz., March 7th, 8th, 14th, and 16th.

He testified that prior to those experiments, that is, in January 1940, he had procured samples of resinates of so-called noble metals, such as palladium, gold, platinum, and osmium for experimental use in the production of alloy film, from Harshaw Chemical Company of Cleveland, Ohio.

As to this testimony he was corroborated by Mr. Irwin E. Johnson, a research chemist for the Harshaw Company, to whose testimony allusion has hereinbefore been made in our discussion of the disclosure of Weber et al.

The following concession is made in a statement in the brief on behalf of Weber et al. before us:

• • • for the purpose of simplifying the issue of priority, Weber et al. concedes that Jira's proofs, including Exhibits F1 to F5, G and W, together with the testimony of the witnesses Johnson and Griffith, are adequate to establish the fact that Jira had in his possession in early February 1940, separate resinate solutions of gold, platinum, and palladium from which he could have made the invention in issue, but at that time Jira was making resistor films from single metallic resinates and *not from a mixture* of metal resinates to form an *alloy*. [Italics quoted.]

It is unnecessary to rehearse Jira's testimony relating to the experiments recorded in Exhibit H, nor is there the slightest disposition on our part to discredit it.

That conception and reduction to practice can not be established upon the testimony of a party to an interference without corroboration by other evidence is so well settled as a fundamental of patent law, and is so familiar, that no citation of authority in support of the principle is deemed necessary. In the brief for Jira before us the principle is recognized in a statement reading:

• • • The Rules of Interference practice are very exact by necessity, but application of these rules should not become so abstract as to depart wholly from the realm of reality.

As stated by the Board:

• • • The party Jira produced only two witnesses from among his associates who might have direct knowledge of these experiments. One of these, William M. Wood, was, in 1940, shipping clerk and order clerk. There is nothing in his testimony to indicate that he had any such direct knowledge of any experiments Jira might have made in 1940. The other witness, Glenn F. Benkelman, supervised, according to his testimony, the work of Jira which supervision consisted generally in receiving reports and consulting with Jira concerning the problems and progress of the work in Jira's departments.

In view of the vigor with which counsel for the party Jira press the corroborating effect of the testimony of Mr. Benkelman relative to the experiments in March 1940, we reproduce that portion of his testimony which is quoted and emphasized in the brief for Jira:

Q. 49. Will you state how you worked between yourself and Mr. Jira in the laboratory, particularly during the years 1939 and up to the present date?
A. Mr. Jira was under my supervision. Those records were under my supervision, and we outlined the development project together. His records were under my scrutiny at all times.
Q. 50. I hand you herewith Jira's Exhibit H, and ask you to state what it is?
A. It is the record of his research work in connection with the development of the metal film resistors.
Q. 51. And this record, Jira's Exhibit H, was made under your supervision?
A. That's right.
Q. 52. I direct your attention to sheet having entry dated March 7, 1940, and ask you to state what that entry relates to?
A. It relates to the depositing of platinum-palladium films on a non-conductive carrier of a ceramic nature.
Q. 53. Will you read the heading at the top of this entry dated March 7, 1940?
A. "Characteristics of Platinum-Palladium Films for X-Type Resistors."
Q. 54. Were the entries made on this sheet, dated March 7, 1940, made under your supervision?
A. That's right.
Q. 55. By whom were they made?
A. Mr. Jira.
Q. 56. Will you explain what metals were used for making the resistor on the entry date of March 7, 1940?
A. Alloy platinum and palladium.
Q. 57. Was that resistor, which was made on March 7, 1940, tested?
A. Yes.
Q. 58. Do the values on the entry for March 7, 1940, represent the values of that resistor that was made?
A. Yes, sir.
Q. 59. I call your attention to the entry bearing date March 16, 1940. Will you state what that entry represents?
A. It represents characteristics of gold-palladium films deposited on non-conductive carrier.
Q. 60. Was that entry made under your supervision?
A. That's right.
Q. 61. By whom was the entry made?
A. Mr. Jira.
Q. 62. Was the resistor made, as of this entry date, tested?
A. That's right; it was tested.
Q. 63. Do the values represented on the entry date, March 16, 1940, represent the value of that resistor?
A. That's right.
Q. 64. Would you say that the resistor made on the entry date, March 16, 1940, was successful?
A. It was experimentally successful.
Q. 65. With respect to entry date of March 7, 1940, would you say that resistor was successful?
A. I would say it was experimentally successful.
Q. 66. With respect to the other pages in the book, were they made under your supervision?
A. Yes.
Q. 67. By whom were they made?
A. Mr. Jira.
Q. 68. Do you know where these resistors which were made on March 7, 1940, and March 16, 1940, are?
A. No; I have no idea where they are.
Q. 69. With respect to the entries made on the other pages of the book, would you say that the values thereon represent the value of resistors that were made on that date?
A. Yes, sir.
Q. 70. That would be true for the single metal film resistors, as well as for the alloy film resistors?
A. Yes.

It will be observed that there is no claim in the foregoing testimony that Benkelman ever saw the several entries made by Jira in the notebook, Exhibit H, prior to the filing date of the parent application of Weber et al. which was June 14, 1944. It is true that in answer to leading questions he stated that entries were made under his supervision, but that does not mean that they were made in his presence. If they had been made in his presence, undoubtedly, he would have so stated. Obviously, neither he nor Jira were tyros in the patent field.

Jira testified on cross-examination that he was experienced in reading claims of patents.

Benkelman stated that the resistors were tested, but did not state when or where, nor was it anywhere stated by any witness that any experiments were conducted or any tests made in Benkelman's presence at any time prior to September 25, 1950, the day before the taking of the testimony on behalf of Jira began.

Of course, whatever may have been done at that time, or, in fact, at any time after the Weber et al. filing date, avails Jira nothing under the facts and circumstances of this case. It was well said by the Board that "It is a thoroughly settled principle of law that a reduction to practice can not be established nunc pro tunc."

The following finding of the Board is apt:

• • • Benkelman did not testify that he saw the notebook of Jira prior to the filing date of the senior party although it is quite clear that Benkelman, as of the time of taking the testimony, and in fact as of some time earlier, understood the nature of the invention and had taken the trouble to familiarize himself with Jira's case. There is nothing in his testimony to show that he obtained this information from Jira particularly with respect to alloy films at any date prior to the declaration of the interference.

Both Jira and Benkelman testified with respect to sales of resistors. A part of this testimony relates to sales of single metal resistors such as those covered by Patent 2,281,843 which tends to create confusion. Sales of single metal resistors have no bearing upon the question here involved.

Certain price lists dated November 1940, February 1942, and January 1943, were introduced in evidence but they do not indicate in any way whether the film on the resistors was single or alloy. Jira testified on cross-examination that none of the company's advertising literature ever referred to a film formed of an alloy, and that their catalogues did not describe the nature of the film. "That," he said, "was our know-how. That is, we never divulged what we have done on our catalogue sheets."

The company, of course, has a perfect right to pursue the policy indicated, but when it does so its publications are of no aid in determining the intrinsic nature of the film on the resistors.

Jira testified in effect that alloy film resistors were manufactured and sold under the designation "X-type film precision resistors" beginning about December 1941, and continuing thereafter. Jira and Benkleman both testified in effect that those sales were for experimental purposes, whatever that may mean.

Only one sales transaction was actually identified. There was introduced as Jira's Exhibit S, a paper stamped "Factory Order" bearing date of December 8, 1941, which, in the words of the Board "was made the basis of testimony to the effect that resistors comprising an alloy film made according to the invention in issue were sold to Measurements Corporation, Boonton, N. J." We approve the finding of the Board upon this phase of the case as expressed in the following:

No testimony was introduced from the Measurement Corporation as to the use and performance of the resistors and although the witness Jira testified that complaints were received concerning the resistors he did not produce any of them nor did he produce any evidence to show when the experimental period terminated with the finding that the alloy film resistors were in fact practical. For these reasons the testimony relating to a sale of articles asserted to embody the invention in issue does not constitute proof of reduction to practice even though a specific customer has been identified.

The arguments on behalf of appellant before us have been carefully and respectfully considered. In our opinion, there is no reason to question the integrity or good faith of any witness in this case. Benkelman is doubtless a well-equipped scientist, fully capable of understanding what Jira did from an examination of documents and from descriptions given long after the experiments were performed, but under rules followed, so far as we are advised, from the very beginning of interference practice, that ability of itself does not qualify him as a corroborating witness. He did not witness the performance of the experiments.

[2] The decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,673,727. (See Re. 19,023.)

2,083,106, I. D. Wolfson, Adjustable necktie; 2,123,620, same, Facing band and multiple band strip; 2,176,754, same, Facing band, D. C., S. D. N. Y., Doc. 40/38, *Milo S. Goldenberg & Co. v. H. & M. Neckwear Co.* Consent order of discontinuance (notice Feb. 17, 1953).

2,123,620. (See 2,083,106.) 2,176,754. (See 2,083,106.)

2,417,384, R. C. Switzer, Daylight fluorescent signaling and display device; 2,475,529, Switzer & Switzer, Fluorescent device and method of making same, filed Feb. 9, 1953, D. C., N. D. Ohio (Cleveland), Doc. 29975, *Switzer Bros., Inc. v. J. P. Byrne.*

2,437,981. (See 2,457,493.) 2,475,529. (See 2,417,384.)

2,489,993, A. F. Wood, Offset resistance welding; 2,523,367, E. F. Holt, Swivel type spot welding electrode, filed Feb. 17, 1953, D. C., E. D. Mich. (Detroit), Doc. 12496, *P. R. Mallory & Co., Inc. v. Weldaloy Products Co., Inc.*

2,510,446. (See Des. 151,423.)

2,523,367. (See 2,489,993.)

2,541,897, T. E. Bryan, Fluid lift control valve for oil wells, filed June 5, 1952, D. C., W. D. Tex. (San Antonio), Doc. 1613, *T. E. Bryan v. Spartan Gas Lift Equipment Co. et al.*

2,628,706, M. F. Krizman, Antenna mounting base, filed Feb. 20, 1953, D. C., N. D. Ind. (South Bend), Doc. 1461, *M. F. Krizman v. Radio Distribution Co. et al.*

2,629,710, C. H. McBurney, Halomethylated-aromatic copolymers, filed Feb. 24, 1953, D. C. Del., Doc. 1525, *Rohm & Haas Co. v. The Permutit Co.*

Re. 19,023 (of 1,673,727), L. V. Aronson, Cigar lighter, C. C. A., 8th Cir. (St. Louis), Doc. 14619, *Ronson Patents Corp. v. Sparklets Devices, Inc., et al.* Judgment of district court affirmed Feb. 10, 1953.

Des. 151,423, 2,510,446, L. P. Weil, Portable electric fountain, D. C., S. D. N. Y., Doc. 61/280, *L. P. Weil* v. *Canal Electric Motor, Inc., et al.* Stipulation and order dismissing complaint and counterclaim Feb. 11, 1953.

Des. 168,435, A. Atlas, Shoe; T. M. 444,470, T. M. 444,471, Brevitt Shoes, Ltd., Shoes, filed Feb. 5, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15135–WM, *Brevitt Shoes, Ltd.* v. *Beverly Hills.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 225,220, Marshall Field & Co., Perfume, toilet water, etc., D. C., S. D. N. Y., Doc. 78/107, *Yardley & Co., Ltd., et al.* v. *Flair Laboratories.* Stipulation and order of discontinuance Feb. 7, 1953.

T. M. 260,696, American Tar Products Co., Bituminous tar paving materials, D. C., E. D. Pa. (Philadelphia), Doc. 14297, *Kopper's Co., Inc.* v. *Flash Stone Co., Inc.* Consent judgment favor plaintiff and granting injunction Feb. 17, 1953.

T. M. 282,358, Lanvin Parfums, Inc., Perfume extract, D. C., S. D. Calif. (Los Angeles), Doc. 14892–WB, *Lanvin-Parfums, Inc.*, v. *Famous Perfumes Co. et al.* Decree favor plaintiff, enjoining defendants (notice Jan. 26, 1953).

T. M. 282,644, Europa Schreibmaschinen, Typewriter and parts thereof, filed Jan. 8, 1953, D. C., S. D. N. Y., Doc. 81/364, *Inter-Continental Trading Corp.* v. *H. Sommerfeld.*

T. M. 326,840, The Revlon Nail Enamel Corp., Nail enamel, lip-rouge, etc., D. C., N. D. Ill. (Chicago), Doc. 52c170, *Revlon Products Corp.* v. *Revlon Cleaners & Dyers.* Consent judgment holding infringement of the name "Revlon" Jan. 29, 1953.

T. M. 327,248, F. W. Small, Silk undergarments, D. C., S. D. N. Y., Doc. 78/45, *Fred W. Small & Co., Inc.* v. *Blossom Lingerie, Ltd.* Consent order and judgment enjoining defendant (notice Jan. 28, 1953).

T. M. 329,600, T. H. Miller, Building material, filed Feb. 13, 1953, D. C. Oreg. (Portland), Doc. 6851, *T. H. Miller* v. *The Columbia Mills, Inc., et al.*

T. M. 345,800, Rustain Products, Inc., Cleaning powder, for floors, windows, etc., D. C. N. J. (Newark), Doc. 513/52, *Rustain Products, Inc.* v. *Colgate-Palmolive-Peet Co.* Consent order of dismissal Jan. 28, 1953.

T. M. 351,264, National Lead Co., White lead and other ingredients for paint, suit for declaratory judgment, filed Oct. 1, 1949, D. C., N. D. Calif. (San Francisco), Doc. 29177, *B. M. Wolfe et al.* v. *National Lead Co.* Decree holding trade-mark not infringed entered Jan. 2, 1953.

T. M. 364,047, Custom Undergarment Corp., Ladies' slips, gowns, etc., filed Dec. 24, 1952, D. C., S. D. N. Y., Doc. 81/241, *Corette, Inc.* v. *Emile Bernat & Sons Co., Inc.*

T. M. 367,448, The Independent Nail & Packing Co., Inc., Nails, D. C., N. D. Ill. (Chicago), Doc. 48c565, *The Independent Nail & Packing Co., Inc.* v. *Stronghold Screw Products, Inc.* Order dismissing complaint Dec. 19, 1952.

T. M. 389,794, Meletio Sea Food Co., Inc., Food preparation, for ready mixed breading for pan frying, filed Dec. 30, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c2832, *Meletio Sea Food Co.* v. *Golden Mix, Inc.*

T. M. 427,307, Aisco, Inc., Storm windows and storm doors, filed Jan. 14, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c57, *Aisco, Inc.* v. *Stanson-Master, Inc., et al.* Consent judgment holding trade-mark valid and infringed, injunction Feb. 9, 1953.

T. M. 444,470. (See Des. 168,435.)

T. M. 444,471. (See Des. 168,435.)

T. M. 516,488, Book-Of-The-Month Club, Inc., Books and periodicals, filed Feb. 17, 1953, D. C., S. D. N. Y., Doc. 82/351, *Book-Of-The-Month Club, Inc.* v. *Children's Book & Record of the Mouth Club, Inc.*

T. M. 547,321, American Automobile Association, Emergency road service and repairing of motor vehicles, etc., filed Jan. 29, 1953, D. C., E. D. Tenn. (Chattanooga), Doc. 2010, *A. A. A.* v. *J. T. Copley et al.*

T. M. 563,943, Dr. Nicholas C. Strey, Foot cream for use for the treatment of eczema, ringworm, etc., filed Feb. 9, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c285, *Dr. Nicholas C. Strey* v. *Devine, Inc.*

NOTICES

Adjudicated Patents

(D. C. Ill.) Kraus Patent No. 2,186,417, for a cutter. Claims 1, 2, 10, 12, 15, 16, and 19 *Held* valid and infringed. *Ingersoll Milling Machine Co.* v. *General Motors Corp.*, 110 F. Supp. 12; — USPQ —.

(C. A. Md.) Kulka Patent No. 2,464,643, for a holder for gaseous discharge lamps. Claims 1 to 5 *Held* invalid and not infringed. *Kay Patents Corporation* v. *Martin Supply Company, Inc., et al.*, 202 F.2d 47; 96 USPQ 225.

(C. A. Md.) Kulka Patent No. 2,495,196, for a holder for gaseous discharge lamps. Claim 6 *Held* invalid and not infringed. *Id.*

(C. A. Okla.) Cummings Patent No. 2,496,381, for a dope brush, *Held* invalid. *Cummings* v. *Moore*, 202 F.2d 145; 96 USPQ 210.

(C. A. Mo.) Aronson Reissue Patent No. 19,023, for a cigar lighter. Claims 12 to 14 and 16 *Held* not infringed. *Ronson Patents Corporation* v. *Sparklets Devices, Inc., et al.*, 202 F.2d 87; 96 USPQ 201.

Subscription Rates

The Superintendent of Documents has announced changes in annual subscription rates for the OFFICIAL GAZETTE and TRADE-MARK SUPPLEMENT. The new rates which are effective immediately are as follows:

OFFICIAL GAZETTE, domestic $30.00; foreign $38.50; single copies unchanged at 75¢.

TRADE-MARK SUPPLEMENT, domestic $19.00; foreign $21.25; single copies unchanged at 45¢.

T. B. MORROW,
Executive Officer.

Apr. 14, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. 1, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,478,027. Musical Instrument Bow. Patented Aug. 2, 1949. Bow for playing a violin, cello, or other string instrument is provided with a replaceable hair unit to permit ready changing of worn hair. The hair is supplied in a pre-combed unit in which the ends of the hair are embedded in plastic plugs which slip into recesses in the frog and the bow tip and are held in place with small screws. The lower half of the bow tip is cast of plastic and is secured to the wooden upper half of the tip with cement and a screw. The frog is cast in one piece of plastic. When trouble develops in the hair assembly, all that is necessary is to loosen and remove the retaining screws, pull out the plugs, and insert a new unit. (Owner) Edwin B. Tichenor, % Dr. G. H. Tichenor, 4007 Magnolia St., New Orleans, La. Group 39—39. Reg. No. 50,646.

Swift & Company has placed the following eight patents on the Register, in addition to several hundred patents previously registered. Inquiries concerning licenses under these patents may be directed to Swift & Company, Union Stock Yards, Chicago 9, Ill.

Pat. 2,598,586. Method for Preserving Shell Eggs. Patented May 27, 1953. Method of protecting shell eggs from dehydration and deterioration during storage and shipment. The shell eggs are treated with a coating composition comprising a relatively non-volatile refined mineral white oil and a cyclized rubber resin or rubber condensation derivative. Examples given in patent. Group 20—99. Reg. No. 50,647.

Pat. 2,599,530. Flotation of Siliceous Impurities From Mineral-Bearing Material. Patented June 10, 1952. Process of concentrating phosphate minerals from their ores in the presence of a positive-ion reagent to produce a relatively pure phosphatic concentrate. Pulp of a size suitable for flotation is subjected to a concentrating operation in the presence of a negative-ion reagent to separate a phosphatic concentrate admixed with silica. The concentrate is mixed with mineral acid to destroy the effects of the negative-ion reagent and to activate the silica. The concentrate is washed with water diffused into a quiescent zone to remove the spent reagents and substantially all the acid therefrom. The washed acid-treated concentrate is removed from the zone and the pulp of the concentrate is subjected to a second concentrating operation in the presence of a positive-ion reagent to separate a greater proportion of silica therefrom. Group 28—89. Reg. No. 50,648.

Pat. 2,602,786. Copolymers of Maleic Anhydride. Patented July 8, 1952. The invention relates to the preparation of copolymers of maleic anhydride and allyl derivatives of hydroxy acids which are not capable of homopolymerization, and the resulting products. The process may be carried out at elevated temperatures without the use of a catalyst. The resulting products are useful in the preparation of adhesives, coatings, oil additives, molding compositions, and the like. Group 28—83. Reg. No. 50,649.

Pat. 2,604,063. Safety Device for Can Seamers. Patented July 22, 1952. Safety guard which may be added to existing semi-automatic machines such as can-closing machines to prevent the operator from getting his fingers caught in the machine. A flat-apertured plate is positioned parallel to a can-supporting member between the member and a closing head for the machinery. The plate is spaced from the member a distance slightly greater than the height of the can to be sealed, but insufficient to allow a can to be inserted therebetween if the operator's fingers are over either end of the can. Group 35—42. Reg. No. 50,650.

Pat. 2,607,766. Lactalbumin Purification. Patented Aug. 19, 1952. Method of purifying crude lactalbumin protein obtained from cheese whey, milk, skimmed milk, buttermilk, or the like by removing the water-insoluble salt impurities therefrom. Destabilized lactalbumin is treated with acid wash water of a pH below 5.0 at a temperature of approximately 100°–170° F. to solubilize the water-insoluble impurities. The slurry so formed is stirred and allowed to settle for a short time. The acid wash water, now containing the solubilized impurities, may be removed from the lactalbumin by draining. Group 20—23. Reg. No. 50,651.

Pat. 2,616,572. Casing Stick Holder. Patented Nov. 4, 1952. Device to assist in placing newly formed linked sausages, or the like, on smoke sticks upon which sausages are supported while being smoked, requiring the assistance of only one person. An elongated upwardly slanted holder has a longitudinal opening, the lower side of which is closed to support a smoke stick. A supporting stand is attached to the holder adjacent one end to position the holder above a work surface. The holder projects beyond the support whereby newly formed sausage strings are coiled by hand about the holder and when the holder is filled they are readily transferred to a smoke stick. The holder has an upstanding flange to act as a guide for the connecting links between the sausages and aids in sliding the sausages to the rear of the holder for adding additional loops. A notch at rear of the flange serves as a stop to prevent the sausages from sliding off holder. Group 20—11—13. Reg. No. 50,652.

Pat. 2,617,733. Margarine Package. Patented Nov. 11, 1952. Method of forming a package for margarine with a coloring ingredient spaced therefrom to be mixed by the consumer by a kneading action. A print of margarine is placed between two sheets of a flexible material which may be heat sealed at their overlaid edges, forming a substantially airtight package. A wider sealed portion is provided at one end of the package in which a small area is left unsealed to provide a pocket and a restricted passage to the margarine. A color-containing capsule in the pocket is squeezed by the consumer, and the coloring matter passes into the passage and into the margarine enclosure. The margarine is then moved around inside the package and kneaded until a uniform color is obtained. Group 20—11—93. Reg. No. 50,653.

Pat. 2,620,510. Poultry Gizzard Skinner. Patented Dec. 9, 1952. Device for quickly removing the lining from poultry gizzards. A pair of power-operated rollers supported in a frame have spaced annular ridges. The ridges of one roller interlock with the ridges of the other roller and rotate in opposite directions. A feed plate adjacent one side of one of the rollers receives opened gizzards which are moved with the lining down across the plate to the rollers where the rollers will grip the lining and pull it between the rollers away from the gizzard. The frame has an opening below the rollers to allow the linings to drop therethrough. A discharge conveyor on the other side of the other roller receives the processed gizzards. Group 20—15. Reg. No. 50,654.

Pat. 2,600,511. Interchangeable Heel for Shoes. Patented June 17, 1952. Heel comprises a first heel portion of plastic material secured to the sole of a shoe, and a second removable heel portion which consists of an inner layer of plastic material and an outer layer of rubber or leather secured thereto so that the entire second heel portion may be replaced, or only the outer layer. A centrally disposed screw extends down through openings in the sole and first heel portion and is screwed into a threaded recess in the plastic layer of the second heel portion for removably securing the second heel portion to the sole. A U-shaped flange and a U-shaped recess in the opposed surfaces of the plastic portions coact to retain the second heel portion in place upon the first heel portion. Complementary criss-cross grooves and projections are provided on the opposed interior surfaces of the heel portions within the peripheral flange and recess. (Owner) Géza Lövy, Montevideo 533, 6° A, Buenos Aires, Argentina, S. A. Groups 30—22; 31—41; 39—81; 40. Reg. No. 50,655.

Pat. 2,616,740. Safety Locking Motor Vehicle Door Handle. Patented Nov. 4, 1952. Safety locking inside door handle for motor vehicles which may be released and freely rotated without opening the door. This will prevent children from opening the door while vehicle is in motion. The handle mounting includes a hub having a shaft-receiving opening in one side and a handle-receiving socket in the other side. Base of handle has spaced radial openings, and when journaled in the hub one of the openings is positioned to register with a threaded radial opening through the hub. A casing positioned over the hub has an opening to register with the threaded opening of the hub. A set screw threaded in opening of the hub is adapted to extend into one of the openings in base of handle. A flange on the base of the handle positioned against outer face of the hub is held by the rim of the casing. The set screw has a socket to receive a key to move the screw inwardly or outwardly to lock or release the handle as desired. May be incorporated in vehicles now in use. (Owner) Adolph Thousand, 1014 Fifth Ave. S. E., Cedar Rapids, Iowa. Groups 33—59; 38—31. Reg. No. 50,656.

Pat. 2,409,839. Toy. Patented Oct. 22, 1946. Toy simulating a wheeled mobile artillery unit may be actuated by the wheels as they travel over a floor or other surface. Rings are slidably mounted on the barrel with one of the rings secured to and carried by a plunger within the barrel. A retractor mounted on the axle for rotation therewith is adapted to engage a catch on the end of a bar pivoted to the plunger to draw the bar and plunger rearwardly a predetermined extent and then release the bar. When the bar is released, a spring drives the plunger forwardly and propels the free rings along the barrel. A stop on the forward end of the barrel limits outward movement of the free rings. The plunger may be provided with a rod to strike and propel a ball from the barrel. (Owners) Harry J. Criner and A. G. Bush. Correspondence to A. G. Bush, 708 Kahl Building, Davenport, Iowa. Group 39—41. Reg. No. 50,657.

Pat. 2,561,563. Toy Percussion Gun. Patented July 24, 1951. Toy gun has a spring operated flexible drawbar within the barrel to drive a carrier ring slidably mounted on the barrel and secured to the bar to propel a tubular slide along the barrel. The gun may be operated by a manually actuated crank, or by a trigger, and will act as a repeater when operated by the crank. The carrier ring has an enlarged bore in the forward end in which the end of the tubular slide normally seats. A shaft to be rotated by the crank carries a retractor for engaging and drawing the drawbar rearwardly a predetermined extent and then releasing it. As the bar is released, a spring drives the bar forwardly to propel the tubular slide along the barrel. As the slide strikes a resilient buffer at the forward end of the barrel, the buffer drives the slide back into its seat in the carrier ring. (Owners) Harry J. Criner and A. G. Bush. Correspondence to A. G. Bush, 708 Kahl Building, Davenport, Iowa. Group 39—41. Reg. No. 50,658.

Pat. 2,580,734. Toy Spring Gun. Patented Jan. 1, 1952. Spring-actuated toy repeating pistol has a tubular magazine to hold a plurality of balls with the upper end of the magazine projecting through a slot into the rear end of the barrel. A spring striker plate anchored at its lower end to the side of the magazine carries a driving pin at its upper end to pass through aligned transverse openings in the upper end of the magazine and drive the uppermost ball from the magazine and propel it out of the barrel. A pivoted trigger bar carries a pivoted link bar to push the striker plate rearwardly when the trigger is pulled. As the trigger is pulled, the finger of the operator will naturally slide down sloping sides of the pistol handle beyond the sloping lower end of the trigger, thus releasing the trigger to allow the striker plate to drive the trigger and driving pin forwardly. (Owners) Harry J. Criner and A. G. Bush. Correspondence to A. G. Bush, 708 Kahl Building, Davenport, Iowa. Group 39—41. Reg. No. 50,659.

Pat. 2,618,001. Self-Wringing Mop. Patented Nov. 18, 1952. A wringer, attached to the handle of a conventional mop, is actuated by levers on the handle. On each side of the mop cloth, a roller is supported between the arms of a frame the other ends of which rest along the mop handle, extending through clamps and terminating in an actuating lever. One roller is held by fixed links. The other is held by links pivoted to both frames for motion of the roller toward and away from the cloth. A coil spring connects the pairs of links for biasing the second roller toward the first. With the handle held upright and the wet mop cloth hanging, the wringing action is initiated by moving the levers on the handle to actuate the sliding of the frames and rollers along the cloth. By further action of the levers, the second roller is then pivoted out of engagement with the cloth, and the frames returned to former positions. Thus the entire wringing operation is accomplished without the operator's hands touching water. (Owner) Arthur Waldrop, Box 21, Emporia, Kans. Groups 23—93; 35—81. Reg. No. 50,660.

United States Government Owned Patents

The following five patents (granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757) are the property of the United States of America as represented by the Secretary of the Interior, by virtue of assignments from the inventors Omar J. Glantz and Eugene T. Oborn (Pat. 2,601,274), Rex R. Lloyd and William T. Rawles (Pat. 2,601,306), Russell C. Buehl (Pat. 2,603,423), Earle D. Rhoades (Pat. 2,605,637), and Kenneth R. Steen (Pat. 2,609,432). Non-exclusive and royalty-free licenses are available. Applications for licenses should be directed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,601,274. Mucic Acid Retarded Portland Cement. Patented June 24, 1952. In a process involving the hydration of Portland cement to harden and set the same, the improvement comprises incorporating therewith about 0.01 to 0.5 percent by weight of mucic acid to inhibit what is termed flash setting. The mucic acid may be incorporated in all Portland cements, especially those having one or more of the following characteristics: A calcium aluminate content greater than about 8 percent; a high alkali content (greater than about 0.60 percent Na_2O); an ignition loss greater than about 1 percent (cement prepared from wet clinker); or elements containing 0.5 percent or more uncombined lime. Group 32—41. Reg. No. 50,661.

Pat. 2,601,306. Method for Dissolution of Chromium From Chromite Ores. Patented June 24, 1952. Method for the dissolution of ores of the chromite series, chromium spinel ores, and similar difficultly soluble chrome ores without concurrently forming insoluble metallic ammonium complexes. The ore is digested in a solvent comprising a dilute sulfuric acid solution containing an oxidizing agent at superatmospheric pressures. The spent analyte from cells for the electrowinning of chromium is preferably employed as the solvent for the chromite. The acid concentration of the spent analyte is built up to about 45 percent sulfuric acid and, if necessary, sufficient chromic acid is added to bring the total chromic acid to about 2 to 7 percent of the weight of the total sulfuric acid concentration. Group 34—19. Reg. No. 50,662.

Pat. 2,603,423. Method for the Removal of Sulfur From Sponge Iron. Patented July 15, 1952. Process of producing low sulfur content sponge iron. Sponge iron particles having a closely adhering, brittle surface coating of high sulfur content basic slag are subjected to abrading action to break off the brittle surface coating as powdered fines without appreciably decreasing the size of the malleable sponge iron particles, and the fines separated from the sponge iron particles. The abrading may be accomplished by high velocity impact grinding, and the fines may be removed by sieving. Group 33—12. Reg. No. 50,663.

Pat. 2,605,637. Surveying of Subsurface Water Tables. Patented Aug. 5, 1952. Drill hole packing assembly for isolating a plurality of subterranean liquid-bearing strata from each other so that the liquid level in each of the isolated strata can be determined through a single drill hole. A single hole to receive a plurality of parallel sounding tubes of different lengths is drilled in the earth to the maximum depth to be surveyed. A separate packing member having an expansible elastic chamber is provided for each sounding tube. The longest sounding tube with its attached packing member and with an air hose detachably connected to the expansible chamber is lowered into the drill hole first until the packing member has reached its proper elevation. The elastic chamber is then inflated to expand it against the walls of the drill hole to isolate the lowermost stratum from the next stratum thereabove. The air hose is then disconnected and withdrawn from the hole. The other sounding tubes with their attached packing members are then installed in the hole in the same manner. The packing members to be disposed above the lowermost packing member are provided with one or more eccentric tubular passages to permit the longer sounding tubes to extend upwardly therethrough. Group 35—32—65. Reg. No. 50,664.

Pat. 2,609,432. Flashover Indicator. Patented Sept. 2, 1952. Flashover indicator for the protection of electric power transmission lines consists of an insulating case having a hinged drop indicator normally held in the case against the force of a spring by an explosive shatterable cartridge made of a glass tube containing a charge of powder between the ends of two electrodes extending into opposite ends of the tube. The cartridge is inserted through an opening in the drop indicator with the electrodes supported in aligned hollow conducting rivets in openings in the sides of the case. When a flashover occurs on a tower or pole on which the indicator is mounted, the cartridge is shattered by ignition of the powder, thus releasing the drop indicator so that it will swing downwardly to indicate that a flashover has occurred. Group 36—13—19. Reg. No. 50,665.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 5, 1953

[VOL. 670. No. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 629,411. Albert Trostel & Sons Company, Milwaukee, Wis. Filed May 9, 1952.

MOCCASIDE

For Leather.
Claims use since Nov. 1, 1951.

Ser. No. 629,620. The Polymer Corporation, Reading, Pa. Filed May 13, 1952.

NYLASINT

For Fine Industrial Molding Powders Consisting Essentially of Nylon, for Use in the Production of Articles by Cold Pressing or Sintering Techniques.
Claims use since May 2, 1952.

Ser. No. 630,852. Edward E. Nelson, Sunland, Calif. Filed June 6, 1952.



For Live Chinchillas and Chinchilla Pelts.
Claims use since Oct. 1, 1950.

Ser. No. 631,310. Milton S. Rainey, doing business as Rainey's Bait Ranch, Eatonton, Ga. Filed June 17, 1952.



The drawing is lined for red. The wordings "Georgia," "Fish Worms," "Rainey's Bait Ranch, Eatonton, Ga." and the representation of the two worms are disclaimed apart from the mark as shown in the drawing.
For Fish Worms.
Claims use since April 1949.

Ser. No. 632,193. William Amer Company, Philadelphia, Pa. Filed July 7, 1952.



Applicant disclaims exclusive use apart from the mark as shown on the drawing of the words "Kid Leather." Applicant claims ownership of Registrations Nos. 425,397 and 438,956.
For Leather.
Claims use since June 5, 1952.

Ser. No. 632,509. Dickson Fuel Corp., Philadelphia, Pa. Filed July 14, 1952.



No claim is made with respect to the word "Anthracite" apart from the mark as shown in the drawing.
For Coal.
Claims use since on or before May 1, 1952.

Ser. No. 633,278. Taconic Farms, Inc., Germantown, N. Y. Filed July 30, 1952.



For Mice for Laboratory Use.
Claims use since Mar. 12, 1951.

Ser. No. 635,368. Malis Leather Company, Philadelphia, Pa. Filed Sept. 17, 1952.

PLAYTANKID

For Leather.
Claims use since March 1950.

CLASS 2

RECEPTACLES

Ser. No. 602,487. Bemis Bro. Bag Company, St. Louis, Mo. Filed Aug. 21, 1950.

POLYLINED

For Bags Made of Fabric Laminated to Plastic and Fabric Laminated to Metal Foil.
Claims use since Apr. 20, 1950.

Ser. No. 610,176. Keyes Fibre Company, Portland and Waterville, Maine. Filed Feb. 16, 1951.

POD-PAK

Applicant disclaims the word "Pak" apart from the mark as shown.
For Molded Pulp Packing Trays for Use in the Packing, Storage, and Shipment of Perishable or Fragile Articles.
Claims use since Oct. 7, 1949.

Ser. No. 634,487. Jeanne L. Pociask, doing business under the name and style of Laverne, Chicago, Ill. Filed Aug. 26, 1952.

Hose Broom

The word "Hose" is disclaimed apart from the mark as shown in the drawing.
For Flexible Plastic Zippered Bags for Women's Hose.
Claims use since Aug. 5, 1952.

Ser. No. 638,927. The Watertown Manufacturing Company, Watertown, Conn. Filed Dec. 3, 1952.

Woodbine

For Dishes, Bowls, Tumblers, Cups, Saucers, and Plates, All Made of Synthetic Plastic Material.
Claims use since on or about Nov. 1, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 625,779. F. Pannertz Schmirgelwerk Kommanditgesellschaft (Inc.), Hann.-Muenden, Germany. Filed Nov. 9, 1951.



For Coated Abrasives, Cloth and Paper, Such as Sand, Flint, Ruby and Emery, In Sheets, Rolls, Belts, and Discs.
Claims use since 1924 and use in commerce among the several States since 1924.

Ser. No. 627,361. Albert A. Syce, doing business as Margo Laboratories, Oakland, Calif. Filed Mar. 31, 1952.

Mar-go

No claim is made to the word "Mar" apart from the mark as shown.
For Preparations for Cleaning and Polishing Furniture.
Claims use since Sept. 29, 1951.

CLASS 5

ADHESIVES

Ser. No. 604,226. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950.

Pure-sure

Applicant claims ownership of Registrations Nos. 343,650 and 538,884.
For Cold Patch Cement, Tube Patch Cement, Gasket and Rim Cement, and Friction Tape.
Claims use since on or about March 1949.

Ser. No. 616,520. Tested Papers of America, Inc., Chicago, Ill. Filed July 14, 1951. (Sec. 2f.)

TEST LINE

Applicant claims ownership of Registration No. 380,824.
For Gummed Tape Used for Sealing Envelopes, Packages, and the Like.
Claims use since July 1940.

Ser. No. 616,523. Tested Papers of America, Inc., Chicago, Ill. Filed July 14, 1951. (Sec. 2f.)

TEST-MARK

Applicant claims ownership of Registration No. 380,825.
For Gummed Tape Used for Sealing Packages and the Like.
Claims use since July 1940.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 565,166. Berwyn Chemical Company, Incorporated, Berwyn, Pa. Filed Sept. 15, 1948.

BENZIL-T

No claim is made to the word "Benzil" apart from the mark as shown.
For Compounds for Exterminating Lice and Bugs.
Claims use since May 6, 1946.

Ser. No. 611,024. W. E. Dunn Manufacturing Company, Holland, Mich. Filed Mar. 8, 1951. (Sec. 2f.)

DENSET

For Admixture for Concrete Comprising Water Repellent, Plasticizer and Air Entraining Agent.
Claims use since Oct. 1, 1941.

Ser. No. 617,465. Wisconsin Alumni Research Foundation, Madison, Wis. Filed Aug. 8, 1951.



No claim is made to the words "It Kills Me—But I Love It!" and "Warfarin," apart from the mark shown in the drawing.
For Rat and Mouse Poison.
Claims use since July 26, 1951.

Ser. No. 620,825. Regal Chemical Corporation, Brooklyn, N. Y. Filed Nov. 2, 1951.

Puff

Applicant claims ownership of Registration No. 555,796.
For Room Deodorizer and Aerosol Mixtures Containing a Room Deodorizer for Killing Offensive Odors.
Claims use since Oct. 31, 1951.

Ser. No. 621,116. Alrose Chemical Company, Cranston, R. I. Filed Nov. 13, 1951.

ALROWAX

For Hard Synthetic Wax Compatible With Various Natural Waxes, for Use in the Industrial Arts.
Claims use since February 1942.

Ser. No. 622,711. Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfort-on-the-Main-Hoechst, Germany. Filed Dec. 20, 1951.

Hostapon

Applicant claims ownership of German Registration No. 602,260, dated Nov. 6, 1950.
For Chemical Products for Industrial Purposes, i. e., Textile Auxiliary Agents Which Serve for Dispersing of Lime-Soap, Kier Boiling, Also Levelling Agents, Dyeing Agents, and Printing Agents.

Ser. No. 631,697. The Terre Co., Rochelle Park, N. J. Filed June 24, 1952.

D-CLOR

For Insecticide.
Claims use since Apr. 9, 1948.

Ser. No. 631,698. The Terre Co., Rochelle Park, N. J. Filed June 24, 1952.

D-CRAB

For Crabgrass and Weed Killer.
Claims use since June 6, 1952.

Ser. No. 631,722. Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Filed June 25, 1952.

HYDROCARB

For Chemical Additives for Oil Well Drilling Muds.
Claims use since Jan. 21, 1952.

Ser. No. 632,729. Knapp-Monarch Company, St. Louis, Mo. Filed July 18, 1952. (Sec. 2f.)

REPEL-A-MIST

For Valved Containers Charged With Insecticide and Gas Under Pressure.
Claims use since Jan. 15, 1947.

Ser. No. 634,955. The AP Paris Corporation, Toledo, Ohio. Filed Sept. 8, 1952.

Alcolide

For Organic Solvent Liquid Carriers for the Dispersion of Solid Lubricants.
Claims use since May 5, 1952.

Ser. No. 638,007. McKesson & Robbins, Incorporated, New York, N. Y. Filed Nov. 13, 1952.

MAYA

For Insect Repellent.
Claims use since May 10, 1950.

Ser. No. 638,234. American Chemical Paint Company, Ambler, Pa. Filed Nov. 18, 1952. (Sec. 2f.)

WEEDUST

Applicant claims ownership of Registrations Nos. 564,763 and 522,846.
For Chemical Preparations for Exterminating Weeds.
Claims use since on or about Dec. 1, 1946.

Ser. No. 638,316. Rubber Corporation of America, Brooklyn, N. Y. Filed Nov. 19, 1952.

RC

For Plasticizing Compounds for Use With Resins, and Fluid Dispersions of Vinyl Resins in Plasticizers to Which Stabilizers, Color, and Filler Have Been Added.
Claims use since Jan. 2, 1952.

Ser. No. 640,542. Resyn Corporation of America, Linden, N. J. Filed Jan. 7, 1953.

FLATKYD

For Alkyls.
Claims use since Aug. 5, 1952.

Ser. No. 641,279. The Dow Chemical Company, Midland, Mich. Filed Jan. 26, 1953.

K-6451

For p-Chlorophenyl p-Chlorobenzenesulfonate Used Principally as an Ingredient of Parasiticidal Compositions.
Claims use since May 27, 1949.

CLASS 7

CORDAGE

Ser. No. 623,901. National Tinsel Manufacturing Co., Manitowoc, Wis. Filed Jan. 22, 1952.

National

For Cotton, Rayon, Tinsel, and Cellophane Ribbon and Cord Used for Tying and Ornamenting Packages.
Claims use since Mar. 1, 1919.

Ser. No. 638,755. The Colorado Fuel and Iron Corporation, Denver, Colo. Filed Nov. 29, 1952.

EXGAL

For Wire Rope.
Claims use since October 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 621,318. Kay-Ess Lighter Corporation, New York, N. Y. Filed Nov. 16, 1951.

KAY-ESS

For Pocket and Table Cigarette Lighters.
Claims use since July 1951.

Ser. No. 636,624. Austam Manufacturing Corporation, New York, N. Y. Filed Oct. 15, 1952.

CHAMP

Applicant claims ownership of Registration No. 430,733.
For Cigarette Lighters.
Claims use sinle July 15, 1952.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 608,743. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio. Filed Jan. 13, 1951.

BUCKI BRAND

No claim is made on the word "Brand" apart from the mark as shown.
For Typewriter Ribbons, Carbon Paper, Carbonized Rolls, i. e., a Carbon Paper in Roll Form Either Fully Coated With a Nondrying Ink or Coated in Spotted Areas To Register With Second Sheets in Desired Areas.
Claims use since July 15, 1900.

Ser. No. 634,231. American Ribbon & Carbon Co., Inc., Rochester, N. Y. Filed Aug. 21, 1952.



The word "Brand" which appears on the drawing is disclaimed. Applicant claims ownership of Registration No. 309,005.
For Typewriter Ribbons and Carbon Paper.
Claims use since March 1897.

Ser. No. 634,725. American Ribbon & Carbon Co., Inc., Rochester, N. Y. Filed Sept. 2, 1952.

ARCO

For Duplicating Inks, Carbon Paper, and Typewriter Ribbons.
Claims use since on or about Jan. 1, 1910.

Ser. No. 637,204. John P. Nissen, Jr., Company, Glenside, Pa. Filed Oct. 27, 1952. (Sec. 2f.)

CLOS MAR KING

Applicant claims ownership of Registration No. 505,119.
For Textile Ink.
Claims use since July 9, 1947.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 618,347. Thomas E. Duffey, West Palm Beach, Fla. Filed Sept. 4, 1951.

VAP O-LITE

For Vaporizers in the Nature of Spring Clamp Fitted Containers for Holding Insecticide, and Primarily Designed for Use in Connection With an Electric Light Bulb as a Heat Source.
Claims use since Aug. 13, 1951.

Ser. No. 621,024. N. V. Nederlands Amerikaanse Fittingfabriek, Zutphenseweg, Deventer, Netherlands. Filed Nov. 8, 1951.

nefit

Applicant disclaims the representation of the pipe fitting. Applicant claims ownership of Dutch Registration No. 109,124, dated May 23, 1951.
For Metal Pipe Fittings; Valves for Fluids, Air, Gas, and Steam; Metal Pipe Unions, Flanges for Pipe Lines for Fluids, Air, Gas, and Steam, and for Pipe Fittings.

Ser. No. 622,578. The Bison Thumb Tack Company, Waterbury, Conn. Filed Dec. 17, 1951.

BISON

For Thumb Tacks.
Claims use since on or about Oct. 26, 1951.

Ser. No. 626,995. Kromex Corporation, Cleveland, Ohio. Filed Mar. 25, 1952.

Party Partners

The word "Party" is disclaimed apart from the mark as shown.
For Lazy Susan Relish Dish Consisting of a Chromium-Plated Steel Base and a Glass Plate; Lazy Susan Consisting of a Chromium-Plated Steel Base, a Glass Tray With Glass Casserole Center, and a Chromium-Plated Steel Cover; Lazy Susan (Sectional) Consisting of a Chromium-Plated Steel Base, a Tray Consisting of a Plurality of Glass Sections, a Glass Casserole Center, and a Chromium-Plated Steel Cover; Tidbit Tray, Two-Tier Comprising Two Vertically Spaced Chromium-Plated Steel Trays and a Metallic Handle; Tidbit Tray, Single Tier Comprising a Single Chromium-Plated Steel Tray and a Metallic Handle; Relish Service Consisting of a Chromium-Plated Steel Tray and a Sectional Glass Center Dish Supported Thereby; Mayonnaise Bowl With Tray Consisting of a Chromium-Plated Steel Tray, a Glass Bowl, and a Glass Mayonnaise Spoon; Jam Jar Consisting of a Chromium-Plated Steel Tray, a Glass Jar, and a Glass Spoon; Covered Butter Dish With Tray Consisting of a Chromium-Plated Steel Tray, a Glass Butter Dish, and a Chromium-Plated Steel Cover; Cheese and Cracker Server Consisting of a Chromium-Plated Steel Tray, a Glass Dish, and a Chromium-Plated Steel Cover; and Silent Butler of Polished Aluminum.
Claims use since on or about Jan. 20, 1952.

Ser. No. 628,566. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. No claim is made to the representation of the sewing machine apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Belt Hooks and Cabinet and Furniture Hardware—Namely, Hinges, Brackets, Braces, and Handles; and General Hardware—Namely, Studs, Bolts, Pins, Screws, and Nuts.
Claims use since 1870.

Ser. No. 630,172. United Aircraft Products, Inc., Dayton, Ohio. Filed May 23, 1952.

UAP

Applicant claims ownership of Registration No. 339,886.
For Flow Control Valves in Lubricant Circulating Systems.
Claims use since February 1952.

Ser. No. 631,137. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed June 12, 1952. (Sec. 2f.)

SHELBY

Applicant claims ownership of Registration No. 113,152.
For Metal Pipes and Tubes.
Claims use since 1890.

Ser. No. 635,805. The American Brass Company, Waterbury, Conn. Filed Sept. 26, 1952.

PG's

For Metal Tubing.
Claims use since Aug. 22, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 625,136. Standard Foundry Company, Racine, Wis. Filed Feb. 18, 1952.

STELCO

Applicant claims ownership of Registration No. 293,601.
For Metal Castings of Steel and Iron.
Claims use since Nov. 24, 1931.

Ser. No. 638,837. The Colorado Fuel and Iron Corporation, Denver, Colo. Filed Dec. 2, 1952.

C F & I

For Metal Rails, Joints, and Tie Plates for Railway Tracks.
Claims use since Jan. 11, 1947.

Ser. No. 639,104. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Dec. 8, 1952.

EUTEC-TIN-WELD

No claim is hereby made to exclusive rights in the words "Tin" and "Weld" except in the combination shown. Applicant claims ownership of Registration No. 519,770.
For Metallic Solder in Paste Form for Tinning and/or Coating Steel, Brass, Bronze, and Copper.
Claims use since Nov. 24, 1952.

Ser. No. 639,262. The Cananea Consolidated Copper Co., S. A., Cananea, Sonora, Mexico. Filed Dec. 10, 1952.

4C

For Copper, Especially in the Form of Castings.
Claims use since Apr. 7, 1914; and since Apr. 7, 1914, in commerce between foreign nations and the United States.

Ser. No. 639,750. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Dec. 10, 1952.

XYRON

For Metallic Welding Electrodes and Gas Welding Rods.
Claims use since Dec. 4, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 610,484. The Panhandle Producing and Refining Company, Wichita Falls, Tex., assignor to Panhandle Oil Corporation, a corporation of Delaware. Filed Feb. 23, 1951. (Sec. 2f.)

Noxless

Applicant claims ownership of Registration No. 258,360.
For Gasoline.
Claims use since June 1, 1927.

Ser. No. 620,708. Will & Baumer Candle Co., Inc., Syracuse, N. Y. Filed Oct. 30, 1951. (Sec. 2f.)

VASSAR

For Wax Candles.
Claims use since May 17, 1917.

Ser. No. 625,870. Skelly Oil Company, Kansas City, Mo. Filed Mar. 3, 1952. (Sec. 2f.)

SKELLY

Applicant claims ownership of Registrations Nos. 203,329 and 397,080.
For Natural Gasoline, Motor Gasoline, Kerosene, Distillates Such as Furnace Oils and Diesel Fuels, Gas Oil, Road Oil, Fuel Oil, Engine Oils Such as Motor Oils, Lubricating Oils and Industrial Oils, Lubricating Greases, Automobile Lubricants, and Penetrating Oil.
Claims use since December 1923.

Ser. No. 630,300. Ernest A. Hartmann, doing business under the name of The Motolax Company, Buffalo, Iowa. Filed May 26, 1952.

Motolax

The representation of the piston ring and valve as shown on the drawing are disclaimed and are not claimed as exclusive.
For Graphite Additive for Improving Lubricating Oil.
Claims use since Oct. 10, 1938.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 577,616. Silk Screen Supplies, Inc., Brooklyn, N. Y. Filed Apr. 23, 1949.

Stencraft

For Screen Process Materials—Namely, Silk Screen Process Paints, Weather-Proof Enamel, Silk Screen Lacquer, Tire Cover Process Paint, Process Paste Paint for Painting Awnings, Canvas and Duck of All Kinds, Concentrated Colored Paints, Paints and Lacquers for Painting Through a Screen.
Claims use since April 1949.

Ser. No. 578,457. Maintenance Inc., Wooster, Ohio. Filed May 9, 1949.

EVERWEAR

For Corrosion Control Composition Comprising a Paint for Metal, Wood, and Concrete Structures.
Claims use since Oct. 5, 1940.

Ser. No. 593,509. Wesco Waterpaints, Inc., Berkeley, Calif. Filed Mar. 6, 1950.

TOP FLITE

Applicant claims ownership of Registration No. 355,447.
For Waterpaints.
Claims use since on or about Jan. 20, 1950.

Ser. No. 595,629. United Sash & Door Company, Wichita, Kans. Filed Apr. 12, 1950.

UNITED

The drawing is lined for red. Applicant claims ownership of Registration No. 330,631.
For Linseed Oil and Turpentine for Use in Paints, Painters' Thinner and Solvent, Naphtha, Oleum Spirits, Mineral Spirits, Paraffin Oil, Creosote, Creosote Shingle Stain Oil, Alcohol, and Lacquer Thinner for Use in Paints or Other Protective or Decorative Coatings, or as Ingredients Thereof.
Claims use since Jan. 1, 1900.

Ser. No. 596,948. Robert Ramsey, Daytona Beach, Fla. Filed May 5, 1950.

S. O. S
SOLUTION NON CORROSIVE
OILER — LUBRICANT
SOLVENT LIME ERADICATOR

No claim is made for the wording shown within the circle of the drawing.
For Compound for Coating the Interior of Pipes To Prevent the Accumulation of Lime and Other Foreign Deposits.
Claims use since September 1949.

Ser. No. 601,329. Arthur C. Mangels Industries, Philadelphia, Pa. Filed July 27, 1950.

FLEX-O-FLAT

No claim is made to the word "Flat" apart from the mark as shown.
For Flat Paints.
Claims use since Sept. 15, 1948.

Ser. No. 602,810. Lawter Chemicals, Inc., Chicago, Ill. Filed Aug. 26, 1950.

LAWTER'S FANTOM

Applicant hereby disclaims the word "Lawter's" except as an association with the mark as a whole.
For Fluorescent Paint.
Claims use since July 13, 1950.

Ser. No. 606,698. Chem Products, Inc., Hartford, Conn. Filed Nov. 21, 1950.

SPEEL

The drawing is lined to indicate a red background. No claim is made to this background apart from the mark as shown.
For Coating Material for Forming a Strippable Plastic Protective Film.
Claims use since June 29, 1950.

Ser. No. 615,661. Spray O Bond Company, Milwaukee, Wis. Filed June 25, 1951.

TRANSEAL

For Transparent Water-Resistant Masonry Sealer Coatings.
Claims use since on or about June 1, 1933.

Ser. No. 617,425. Western Coating Company, Pasadena, Calif. Filed Aug. 7, 1951.

WESTOFLEX

For Thermoplastic, Rubber-Like Protective Coating Composition Which Is Applicable to Almost Any Type of Surface.
Claims use since Apr. 8, 1949.

Ser. No. 619,817. Dow Corning Corporation, Midland, Mich. Filed Oct. 10, 1951. (Sec. 2f.)

DOW CORNING

For High Temperature Paints, Weather Resistant Paints, Resins for Formulating Paints, Antifloating Agents for Use in Paints.
Claims use since July 21, 1945.

Ser. No. 619,930. Dupli-Color Products Co., Inc., Chicago, Ill. Filed Oct. 12, 1951.

Gra-Fix

For Plastic Coating Sprays for Protecting the Surfaces of Art Work and the Like.
Claims use since Aug. 7, 1951.

Ser. No. 621,978. John Nielsen, S. Floral Park, N. Y. Filed Dec. 1, 1951.

PERMA-SEAL

No claim is made to the word "Seal" apart from the mark as a whole.
For Waterproof Coating Material Adapted To Be Sprayed on Cinder Blocks, Cement Blocks and Asbestos and Wooden Shingles, Clapboards, Metal Surfaces, and Other Construction Materials.
Claims use since on or about Feb. 1, 1951.

Ser. No. 622,493. Freeman Chemical Corporation, Saukville, Wis. Filed Dec. 14, 1951.

CHEMPOL

For Varnishes and Synthetic Resins, Manufactured by the Applicant, for Use in Paints and Other Protective Coatings, as Ingredients in Paints and Other Protective Coatings, and as Protective Coatings Themselves.
Claims use since Oct. 13, 1949.

Ser. No. 622,594. H & S Sales Company, Eureka, Ill. Filed Dec. 17, 1951.

TARP

For Protective Spray Coating for Machinery To Prevent Rust and Paint Deterioration.
Claims use since July 9, 1951.

Ser. No. 626,084. Henderize, Inc., Sacramento, Calif. Filed Mar. 7, 1952.

Fab Spray

Applicant disclaims exclusive right to the word "Spray" except when used as part of the mark as shown.
For Plastic Base Mineral Pigment Spray Coating for Textiles for Renovating and Decorating Automobile Upholstery Tops and All Fabrics Including Upholstery, Carpeting, Etc.
Claims use since Apr. 2, 1951.

Ser. No. 626,748. The Reardon Company, St. Louis, Mo. Filed Mar. 20, 1952.

CO-LO-RA

Applicant claims ownership of Registration No. 155,025.
For Paint Colors and Tints in Dry Powder, Paste, and Liquid Form.
Claims use since July 1, 1921.

Ser. No. 630,561. Wm. F. Zummach, Inc., Milwaukee, Wis. Filed May 31, 1952.

VELKYD

For Oil Base Flat Wall Paint.
Claims use since Apr. 2, 1952.

Ser. No. 630,886. General Electric Company, Schenectady, N. Y. Filed June 7, 1952.

Applicant claims ownership of Registrations Nos. 271,345 and 317,983.
For Organosiloxane Resin Paint Ingredients; Organosiloxane Fluids for Use in Paints as Anti-Silking and Anti-Flotation Agents; and Paints Containing the Aforementioned Ingredients.
Claims use since August 1946.

Ser. No. 630,888. General Electric Company, Schenectady, N. Y. Filed June 7, 1952.

GENERAL ELECTRIC

Applicant claims ownership of Registrations Nos. 271,345 and 317,983.
For Organosiloxane Resin Paint Ingredients; Organosiloxane Fluids for Use in Paints as Anti-Silking and Anti-Flotation Agents; and Paints Containing the Aforementioned Ingredients.
Claims use since August 1946.

Ser. No. 631,400. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed June 19, 1952.

NEELIUM

For Liquid Synthetic Rubber Coating Composition.
Claims use since May 8, 1952.

Ser. No. 632,635. Surface Engineering Company, Inc., Wichita, Kans. Filed July 16, 1952.

Secoton

The cross hatching appearing on the drawing is merely shading without indication of color.
For Clear or Pigmented Liquid Plastic Protective and Decorative Coating Composition.
Claims use since Jan. 7, 1952.

Ser. No. 633,301. Con-Cor Paint Company, Kansas City, Mo. Filed July 31, 1952.

Con-a-Last

Applicant claims ownership of Registration No. 558,010.
For Oil-Base, Exterior Wall Coating for Use on Stucco, Cement, Cinder Block, Concrete Block, Asbestos, Metal, Brick, Wood, and Stone.
Claims use since on or about July 25, 1951.

Ser. No. 635,063. Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Filed Sept. 9, 1952.

SOCOBOND

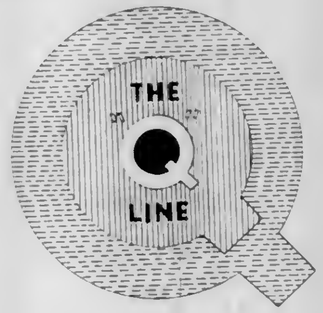
For Ready-Mixed Paint, Varnish, Enamel, or Similar Type Thinners.
Claims use since July 15, 1952.

Ser. No. 635,064. Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Filed Sept. 9, 1952.

SOCOPOL

For Ready-Mixed Paint, Varnish, Enamel, or Similar Type Thinners.
Claims use since July 15, 1952.

Ser. No. 635,648. Girard Paint and Varnish Mfg. Co., Philadelphia, Pa. Filed Sept. 23, 1952.



The lining on the drawing represents the colors gray and red. No claim is made in this application to the word "Line" apart from the mark as shown.
For Flat Wall Paints, Exterior House Paints, Exterior House Paint Primers, Interior Primers and Sealers in the Nature of Paint, Enamels, Enamel Undercoaters, Varnishes, Shellac, and Paint Thinners and Reducers.
Claims use since Mar. 20, 1952.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 633,877. Salvador Rodriguez, Inc., Tampa, Fla. Filed Aug. 13, 1952.



The portrait of Leonardi Da Vinci, a deceased individual, is in the middle of said trade-mark, and the two ladies' pictures therein are merely colned pictures of no individuals. Applicant claims ownership of Registration No. 255,769.
For Cigars.
Claims use since Dec. 7, 1928.

Ser. No. 634,169. Jno. H. Swisher & Son, Inc., Jacksonville, Fla. Filed Aug. 19, 1952.

Court Royal



The portrait is fanciful.
For Cigars.
Claims use since Jan. 14, 1927.

Ser. No. 634,170. Jno. H. Swisher & Son, Inc., Jacksonville, Fla. Filed Aug. 19, 1952.

HIGH GRADE DIXIE MAID CIGAR OF QUALITY

No claim is made to the words "High Grade Cigar of Quality" apart from the mark as shown.
For Cigars.
Claims use since Sept. 24, 1917.

Ser. No. 634,172. Jno. H. Swisher & Son, Inc., Jacksonville, Fla. Filed Aug. 19, 1952.

Royal Sold

For Cigars.
Claims use since Aug. 28, 1912.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 591,192. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware. Filed Jan. 20, 1950.

TERRAMYCIN

For Antibiotic Preparation Containing Oxytetracycline or a Derivative Thereof.
Claims use since Dec. 23, 1949.

Ser. No. 612,975. Sentco, Inc., West Palm Beach, Fla. Filed Apr. 21, 1951.

MIXIT

For Water Emulsifiable Concentrate of Insecticidal, Germicidal and Fungicidal Solution for Use in Bathing Small Domestic Animals.
Claims use since May 1948.

Ser. No. 633,073. Research Laboratories, Inc., St. Joseph, Mo. Filed July 25, 1952.

True-Vac

For Hog Cholera Vaccine.
Claims use since on or about Jan. 15, 1952.

Ser. No. 635,174. Dome Chemicals, Inc., New York, N. Y. Filed Sept. 12, 1952.

ACID MANTLE

Registration rights in the word "Acid" apart from the mark as shown are hereby disclaimed.
For Medicinal Preparations for External Use in the Treatment of Skin Infections, Other Skin Irritations, Minor Burns, Chafing, Poison Ivy, Insect Stings, and Rectal Itching.
Claims use since July 23, 1952.

Ser. No. 637,732. Surtops Laboratory, Inc., Detroit, Mich. Filed Nov. 6, 1952.

SURTOPS

For Rectal Ointment.
Claims use since May 21, 1952.

Ser. No. 637,804. The Upjohn Company, Kalamazoo, Mich. Filed Nov. 7, 1952.

Ketogestin

For Preparation for Use in the Treatment of a Metabolic Disorder Characterized by Abnormal Quantities of Ketones in the Blood and Urine of Certain Ruminants.
Claims use since Aug. 13, 1952.

Ser. No. 637,805. The Upjohn Company, Kalamazoo, Mich. Filed Nov. 7, 1952.

Nona-Salt

No claim is made for the word "Salt" apart from the trade-mark shown.
For Preparation for Use in Connection With the Diet of Patients Having Cardio-Vascular and Renal Disorders in Which Low Sodium Intake Is Indicated.
Claims use since Sept. 12, 1952.

Ser. No. 637,943. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 12, 1952.

PERMAPEN

For Antibiotic Preparation Containing a Substantially Water Insoluble Penicillin Salt.
Claims use since Oct. 28, 1952.

Ser. No. 638,035. Edward E. Rice, doing business as Nu-Know-U-Well Medicine Co., Elmira, N. Y. Filed Nov. 6, 1952.

"NU-KNOW-U-WELL"

For Herb Compound Medicine for Internal Use, and Liniment for External Use.
Claims use since Apr. 1, 1927.

Ser. No. 638,096. S. Pfeiffer Manufacturing Company, St. Louis, Mo. Filed Nov. 14, 1952.

TRYO-DRIN

For Medicaments—Namely, an Antibiotic in Solution for Use as a Soothing Nasal Decongestant.
Claims use since Oct. 23, 1951.

Ser. No. 638,279. The J. R. Watkins Company, Winona, Minn. Filed Nov. 18, 1952.

SOOTHIE

For Medicated Greaseless Skin Ointment.
Claims use since Oct. 28, 1952.

Ser. No. 638,608. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Nov. 25, 1952.

AGRICIDIN

For Antibiotic Preparation for Use in Antibacterial Therapy.
Claims use since Oct. 29, 1952.

Ser. No. 638,609. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Nov. 25, 1952.

VAZOPEN

For Antibiotic Preparation.
Claims use since Sept. 9, 1952.

Ser. No. 638,774. Medical Iodine Laboratories, Inc., Avalon, Pittsburgh, Pa. Filed Nov. 29, 1952.

MEDINE

For Iodine for Medicinal Purposes in Liquid and Gel Form.
Claims use since Oct. 5, 1948.

CLASS 19

VEHICLES

Ser. No. 586,021. H. P. Snyder Manufacturing Company, Inc., Little Falls, N. Y. Filed Oct. 8, 1949.

MOHAWK

For Bicycles.
Claims use since June 14, 1937.

Ser. No. 589,278. Southern Friction Materials Company, Charlotte, N. C. Filed Dec. 13, 1949.

SOUTHERN

Applicant claims ownership of Registrations Nos. 303,681, 347,664, and others.
For Hydraulic Brake Cylinder Repair Kits and Parts for Hydraulic Brake Systems—Namely, Hose, Pistons, Cups, Boots, Springs, Washers, Stop-Light Switches, Screws, Plugs, Nuts, Lockwires, and Cams, All Sold as a Unit.
Claims use since Jan. 1, 1934.

Ser. No. 632,306. New York Rubber Corporation, New York, N. Y. Filed July 9, 1952.

Airubber

Applicant claims ownership of Registrations Nos. 222,911, 223,816, and others.
For Inflatable Boats and Inflatable Floats for Supporting a Plurality of Humans.
Claims use since September 1924.

Ser. No. 634,418. National Automotive Parts Association, Detroit, Mich. Filed Aug. 25, 1952. COLLECTIVE MARK.

Modac

For Rubber Splash Guards and Rubber Automobile Mats.
Claims use since May 1952.

Ser. No. 638,545. Mid-America Research Corporation, Wheatland, Pa. Filed Nov. 24, 1952.

MIGHTY-MITE

For Motorized Four Wheel Vehicles for Personnel and Equipment.
Claims use since Sept. 1, 1952.

Ser. No. 639,822. Hudson Motor Car Company, Detroit, Mich. Filed Dec. 20, 1952.

Super Jet

Applicant claims ownership of Registration No. 555,710.
For Automobiles and Automobile Bodies.
Claims use since on or about Dec. 4, 1952.

Ser. No. 639,824. Hudson Motor Car Company, Detroit, Mich. Filed Dec. 20, 1952.

JET

Applicant claims ownership of Registration No. 555,710.
For Automobiles and Automobile Bodies.
Claims use since on or about Dec. 4, 1952.

Ser. No. 639,825. Hudson Motor Car Company, Detroit, Mich. Filed Dec. 20, 1952.

JET

Applicant claims ownership of Registration No. 555,710.
For Automobiles and Automobile Bodies.
Claims use since on or about Dec. 4, 1952.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 629,652. Congoleum-Nairn Inc., Kearny, N. J. Filed May 14, 1952.

RANCHTILE

For Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition Surfaces.
Claims use since Jan. 21, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 614,826. The Gallaher Company, Omaha, Nebr. Filed June 6, 1951.

AIR-MAX

No claim is made to the word "Air" apart from the mark as shown.
For Electric Exhaust Fans for Household and Industrial Use.
Claims use since Oct. 1, 1950.

Ser. No. 621,338. Standard Electric Co., Inc., San Antonio, Tex. Filed Nov. 16, 1951.

PERMALIFE

For Separators or Insulators for Storage Batteries.
Claims use since Sept. 1, 1951.

Ser. No. 623,278. International Rectifier Corporation, Los Angeles, Calif. Filed Jan. 7, 1952.

RECTICELL

For Electrical Rectifying Elements Containing Selenium.
Claims use since Nov. 21, 1951.

Ser. No. 623,549. Robert M. Keith, Jr., Laurel, Miss. Filed Jan. 14, 1952.

super-loop

For Coil and Mountings for Use in Lieu of or in Conjunction With Radio Antenna.
Claims use since Nov. 1, 1951.

Ser. No. 624,086. International Standard Trading Corporation, New York, N. Y. Filed Jan. 25, 1952.

INTERNATIONAL STANDARD IST TRADING CORPORATION

Applicant disclaims the words "Standard Trading Corporation."
For Electromechanical Intelligence Analyzing Apparatus Comprising a Correlated System for Posting, and/or Visibly Indicating, and/or Orally Announcing Information at One Point as the Result of Circuit Connections With Recorded Indices at Another Point, Particularly Adapted for Use by Common Carrier Systems To Record Space Reservation Information and Provide Space Availability Data.
Claims use since June 1, 1951.

Ser. No. 624,353. David D. Nash and Jack A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, doing business as K. R. Wilson, Arcade and Buffalo, N. Y. Filed Jan. 31, 1952.

KRW

For Battery Chargers, Electric Piston Heater Units, Electric Welders, and Electric Heating Lamps for Baking Enamel on Automobiles and Other Products Having Enameled Surfaces.
Claims use since June 2, 1924.

Ser. No. 624,356. David D. Nash and Jack A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, doing business as K. R. Wilson, Arcade and Buffalo, N. Y. Filed Jan. 31, 1952.

KRW

For Battery Chargers, Electric Piston Heater Units, Electric Welders, and Electric Heating Lamps for Baking Enamel on Automobiles and Other Products Having Enameled Surfaces.
Claims use since Jan. 2, 1936.

Ser. No. 624,500. Price Vacuum Stores, Inc., Philadelphia, Pa. Filed Feb. 4, 1952.

Sterilaire

For Electric Vacuum Cleaners and Vacuum Cleaner Parts.
Claims use since on or about Jan. 9, 1952.

Ser. No. 626,075. Duro-Test Corporation, North Bergen, N. J. Filed Mar. 7, 1952.

DUROLIER

Applicant claims ownership of Registration No. 399,027.
For Fluorescent Sign Lamps, and Combinations of Fluorescent Lighting Fixtures and Fluorescent Sign Lamps.
Claims use since Jan. 18, 1952.

Ser. No. 627,616. Ampower Products Co., Oak Lawn, Ill. Filed Apr. 5, 1952.

Ampower

For Portable Electric Spot Welders.
Claims use since Apr. 4, 1952.

Ser. No. 628,140. Marlun Manufacturing Co., Inc., New York, N. Y. Filed Apr. 16, 1952.

Black Angus Roastmaster

Applicant claims ownership of Registration No. 540,182.
For Combination Electric Rousters, Broilers, and Hot Plates.
Claims use since Jan. 15, 1952.

Ser. No. 632,915. The Beryllium Corporation, Reading, Pa. Filed July 23, 1952.

BERYLCO

Applicant claims ownership of Registration No. 530,611.
For Welding Accessories—Namely, Resistant Welding Dises, Resistant Welding Wheels, Resistant Welding Dies, and Resistant Welding Wheel Scraper Blades.
Claims use since September 1938.

Ser. No. 634,468. The Hoover Company, North Canton, Ohio. Filed Aug. 26, 1952. (Sec. 2f.)

HOOVER

Applicant claims ownership of Registration No. 502,428.
For Electric Irons.
Claims use since June 1947.

Ser. No. 634,971. Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo. Filed Sept. 8, 1952.

EZE-AIRE

The word "Aire" is disclaimed apart from the mark shown.
For Electrical, Air-Deodorizing Apparatus, of the Ultra-Violet Ray Type.
Claims use since Aug. 15, 1952.

Ser. No. 635,041. Kalbfell Laboratories, Inc., San Diego, Calif. Filed Sept. 9, 1952.

LOGATEN

For Logarithmic Attenuators.
Claims use since Feb. 23, 1949.

Ser. No. 635,354. Estellite Company, Inc., Hoosick Falls, N. Y. Filed Sept. 17, 1952.

rid all

For Electronic Deodorizers Utilizing the Ultra-Violet Principle of Generating Ozone From the Air.
Claims use since May 5, 1952.

Ser. No. 637,155. Sutton Electronic Company, Inc., Lexington, Ky. Filed Oct. 24, 1952.

SUTCO

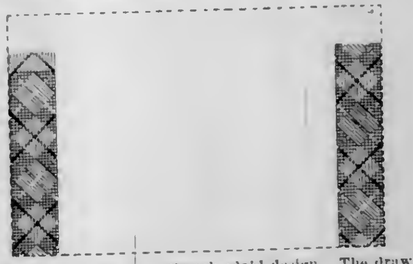
For Television Accessory Units—Namely, Boosters, Change-Over Switches, Power Control Boxes, Pole Boosters, Line Checks, Booster-Converters.
Claims use since June 5, 1952.

Ser. No. 637,237. Cadnic Corporation, Denver, Colo. Filed Oct. 27, 1952.

CADNIC

For Storage Batteries.
Claims use since on or about Oct. 15, 1950.

Ser. No. 637,319. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Oct. 29, 1952.



The mark comprises a Scotch plaid design. The drawing is lined to indicate the colors red and green. The label outline shown in the drawing forms no part of the mark.
Applicant claims ownership of Registration No. 544,478.
For Sound-Recording Tape for Magnetized Reproduction.
Claims use since at least as early as June 6, 1947.

Ser. No. 637,388. Motorola, Inc., Chicago, Ill. Filed Oct. 30, 1952.

PLĀcir

For Electrical Chassis for Radio Receivers.
Claims use since on or about July 23, 1952.

Ser. No. 637,523. C. Schous Fabriker A/S, Copenhagen, Denmark. Filed Oct. 30, 1952.

TONO

Applicant claims ownership of Danish Registration No. 866/1943, dated July 31, 1943.
For Electrical and Magnetized Phonograph Records, Recording Wire, and Recording Tape.

Ser. No. 637,525. C. Schous Fabriker A/S, Copenhagen, Denmark. Filed Oct. 31, 1952.

TONO

Applicant claims ownership of Danish Registration No. 433/1937, dated May 8, 1937.
For Electrical and Magnetized Phonograph Records, Recording Wire, and Recording Tape.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 584,093. Toycrafters, Philadelphia, Pa. Filed Aug. 26, 1949.

TOYCRAFTERS

For Dolls.
Claims use since July 21, 1949.

Ser. No. 622,180. Talon, Inc., Meadville, Pa. Filed Dec. 6, 1951.

ZIPPEROO

For Fictional Doll-Like Characters.
Claims use since Nov. 5, 1951.

Ser. No. 627,880. Hoffman Lion Mills Company, Incorporated, Fall River, Mass. Filed Apr. 10, 1952.

Sky King

For Kites.
Claims use since Mar. 16, 1952.

Ser. No. 628,568. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Toy Sewing Machines, Dolls, Dolls' Clothes, and Toy Traveling Cases.
Claims use since 1910.

Ser. No. 629,518. Gilbert F. Scanlan, doing business as Jerry Scanlan, Chicago, Ill. Filed May 10, 1952.

SPACE SCOUT

For Toy Guns, Bean-Blowers, Target-Dart Games, and Model Planes for Toy or Hobby Use.
Claims use since Oct. 5, 1951.

Ser. No. 629,679. Richard C. Miller, Lansdowne, Pa. Filed May 14, 1952.

"in a pig's eye"

For Scoring Game in Which the Player's Score Depends Upon His Skill in Manipulating an Indicator.
Claims use since May 9, 1952.

Ser. No. 633,528. Brainerd Bait Co., St. Paul, Minn. Filed Aug. 6, 1952.

Doctor

For Artificial Bait—Namely, a Spoon.
Claims use since Sept. 5, 1940.

Ser. No. 634,966. Diamond Calk Horseshoe Co., Duluth, Minn. Filed Sept. 8, 1952.

DIAMOND
JUNIOR

The word "Junior" is disclaimed apart from the mark as shown.
For Pitching Shoes.
Claims use since 1927.

Ser. No. 634,967. Diamond Calk Horseshoe Co., Duluth, Minn. Filed Sept. 8, 1952.

DIAMOND
OFFICIAL

The word "Official" is disclaimed apart from the mark as shown.
For Pitching Shoes.
Claims use since 1927.

Ser. No. 637,404. Leona B. Shiba, Chicago, Ill. Filed Oct. 30, 1952.

Y-ONETTES

For Marionettes.
Claims use since July 1, 1952.

Ser. No. 639,567. Clay E. Hurst, doing business as Hurst Company, Chincoteague, Va. Filed Dec. 16, 1952.

ROUND ROBIN

For Undulatory Merry-Go-Round.
Claims use since Feb. 28, 1952.

Ser. No. 640,029. Adventure Toys, Palo Alto, Calif. Filed Dec. 18, 1952.

Adventure

For Alphabetical Toy Blocks.
Claims use since June 13, 1940.

Ser. No. 640,674. Lester M. Davis, doing business as Davis Fishing Tackle Co., Tacoma, Wash. Filed Jan. 13, 1953.

HOTROD

For Fishing Tackle—Namely, Artificial Baits or Lures, Including Metal Lures Which Are Generally Termed Dodgers, Spoons, and Spinners.
Claims use since Dec. 12, 1952.

Ser. No. 642,507. Elizabeth S. Scanlan, doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo. Filed Jan. 26, 1953.

SHOEHORN

For Artificial Fish Lures.
Claims use since on or about Nov. 1, 1931.

Ser. No. 642,732. Cortland Line Company, Inc., Cortland, N. Y. Filed Feb. 25, 1953. (Sec. 2f.)

DRI-SEALD

Applicant claims ownership of Registration No. 438,135.
For Fishing Lines.
Claims use since on or about Jan. 30, 1946.

Ser. No. 643,026. Bubble-O-Bill Corporation, Los Angeles, Calif. Filed Mar. 3, 1953.

BUBBLE-O-BILL

The word "Bubble" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 556,946, 564,657, and 564,945.
For Bubble Pipes.
Claims use since Aug. 19, 1952.

CLASS 23

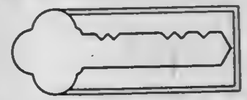
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 538,036. The Peavey Manufacturing Company, Oakland, Maine. Filed Oct. 16, 1947.

PV

For Axes; Bark Spuds; Axe and Hatchet Cases; Cant Hooks; Pick Pole Ferrules, Stamp Hammers; Axe Handles; Hatchets; Boat, Cant, Log, and Pulp Hooks; Ice Chisels; Non-Electric Chain and Cable Type Hoists; Pickeroons; Picks; Pike and Pick Poles; Shaves; Single Froes; Skidding Tongs; Cant Hook Sockets; Timber Carrier Swivels; Timber Carriers; Toe Rings; and Axe Wedges.
Claims use since Jan. 1, 1910.

Ser. No. 543,619. The McBee Company, Athens, Ohio. Filed Dec. 6, 1947.



For Key and Gang Punches; Manually or Power Operated Numbering, Slotting, Punching Machines, Trimmers, Dies, Master Plates for Punching or Slotting Machines; Combination Slotting, Punching, or Numbering Machines.
Claims use since on or about Apr. 1, 1933.

Ser. No. 582,325. Stevens Research Company, Dearborn, Mich. Filed July 21, 1949.

BI-MATIC

The prefix "Bi" is disclaimed apart from the mark shown.
For Variable Speed Transmissions Employed Between a Drive and Driven Member.
Claims use since June 21, 1949.

Ser. No. 589,558. Borg-Warner Corporation, Chicago, Ill. Filed Dec. 19, 1949. (Sec. 2f.)



Applicant claims ownership of Registration No. 513,546.
For Nonelectric Brakes and Brake Assemblies for Industrial Machinery and Booster Units Therefor; Chain and Sprocket Drive Mechanisms; Carburetors; Clutches and Parts Thereof—Namely, Clutch Actuators, Clutch Plates, and Clutch Springs; Hydraulic Couplings and Fluid Drive Wheels Used for Drive Wheel Transmissions; Pumps, Including Vacuum Pumps, Booster Pumps, Gear Pumps, and

Vaned Pumps; Overdrive and Synchronizer Units for Automotive Transmissions; Timing Gear Mechanisms for Automobiles; Automotive, Aviation, and Marine Transmission Gears; Transfer and Take-Off Drive Gear Mechanisms; Universal Joints; Power Drive Mechanisms for Industrial Use, and for Farm Machinery—Namely, for Cultivators, Plows, Combines, Shovels, Rakes, Scoops, Harrows, Discs, and Weeders; Flexible Couplings; Plows, Plow-Shares, Mold Boards, and Coulters; and Hand-Operated Agricultural Implements—Namely, Harrows, Rakes, Saws, Shovels, Spades, Scoops, Weeders, and Hoes, and Parts of the Aforesaid Mechanisms and Devices for Replacement and Repair.

Claims use since on or about June 15, 1945, as to the mark shown; and since July 1, 1928, as to the mark "Borg-Warner."

Ser. No. 594,916. National Engineering Company, Chicago, Ill. Filed Mar. 30, 1950.

The NATIONAL

SAND DECARBONIZER

No registration rights are claimed for the words "Sand Decarbonizer" apart from the mark shown in the drawing.

For Apparatus for Reclaiming Used Sand for Use In Foundries and the Like.

Claims use since Mar. 15, 1950.

Ser. No. 619,597. Automatic Pump & Softener Corporation, Rockford, Ill. Filed Oct. 5, 1951.

Aqua Matic

No claim is made to the expression "Aqua" apart from the mark as shown. Applicant claims ownership of Registration No. 443,747.

For Water Treatment Apparatus of the Type Having a Reaction Tank, Devices for Mixing and Feeding Chemicals Thereto and Filters for Clarifying the Effluent; and Decarbonators for Removing Carbon Dioxide by Aeration.

Claims use since on or about Mar. 1, 1945.

Ser. No. 621,421. Premier Mill Corporation, Geneva, N. Y. Filed Nov. 19, 1951.

DISPERSATOR

For Motor-Driven High Speed Centrifugal Mixing Apparatus for Mixing Fluids.

Claims use since July 5, 1951.

Ser. No. 622,504. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Filed Dec. 14, 1951.

"Age O'Fun"

For Goods In the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives.

Claims use since Mar. 13, 1950.

Ser. No. 622,505. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Filed Dec. 14, 1951.

"Best O'Kids"

For Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives.

Claims use since Mar. 13, 1950.

Ser. No. 622,506. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Filed Dec. 14, 1951.

"Bit O'Heaven"

For Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives.

Claims use since Mar. 13, 1950.

Ser. No. 622,507. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Filed Dec. 14, 1951.

"Gift O'Love"

For Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives.

Claims use since Mar. 13, 1950.

Ser. No. 622,509. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Filed Dec. 14, 1951.

"Pal O'Mine"

For Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives.

Claims use since Mar. 13, 1950.

Ser. No. 622,510. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Filed Dec. 14, 1951.

"Peep O'Day"

For Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives.

Claims use since Mar. 13, 1950.

Ser. No. 623,862. Wm. Bros Boiler & Manufacturing Co., Minneapolis, Minn. Filed Jan. 21, 1952. (Sec. 2f.)

WOBBLE-WHEEL

Exclusive right to the use of the word "Wheel" is disclaimed apart from the combination shown.

For Pneumatic Tired Road Rollers.

Claims use since Oct. 22, 1943.

Ser. No. 624,227. The Cleveland Hobbing Machine Company, Euclid, Ohio. Filed Jan. 29, 1952. (Sec. 2f.)

CLEVELAND RIGIDHOBBER

No claim is made herein for the words "Hobbing," "Machine," "Company," "The" and "Co." apart from the mark as shown. Applicant claims ownership of Registrations Nos. 391,785, 391,786, and others.

For Hobbing Machines.

Claims use since May 5, 1934.

Ser. No. 624,723. Nihon Mishin Seizo Kabushiki Kaisha, Mizuho-Ku Nagoya, Japan. Filed Nov. 15, 1950.

BROTHER

Applicant claims ownership of Japanese Registration No. 219,772, dated Oct. 25, 1930.

For Sewing Machines.

Ser. No. 627,397. John J. Milo, doing business under the name and style of Jersey Manufacturing Company, Elizabeth, N. J. Filed Apr. 1, 1952.

Little Shaver

The word "Shaver" is disclaimed apart from the mark as shown.

For Metal Cutting Tool and Tool Holder Assembly Adapted for Use With Automatic Screw Machines and the Like.

Claims use since Mar. 16, 1948.

Ser. No. 627,473. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed Apr. 2, 1952.

SILVERLINE

Applicant claims ownership of Registration No. 338,039.

For Pump Barrels.

Claims use since Apr. 1, 1936.

Ser. No. 628,581. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.

SIMANCO

Applicant claims ownership of Registrations Nos. 91,518, 91,911, and 175,840.

For Family and Commercial Sewing Machines; Darning, Embroidery, Article Fastening, Hemstitching, Buttonhole Making, Eyeletting, and Ornamental Stitching Machines; Bobbin Winding, Crimping, Strip Cutting, Thread Drawing, Trimming, and Bench Grinding Machines; Sewing Machine Needles; Belt Punches, Honing Devices for Sharpening Knives and Blades, Belt Tighteners for Taking the Slack Out of Power Transmission Belts, Screw Drivers, Hand and Power Operated Cloth Pinking Machines, Cloth Grippers for Securing a Work-Piece to or Upon a Table, Finger Guards in the Form of Wire or Glass Screens To Prevent an Operator's Fingers From Engaging a Moving Machine Element, C-Clamps, Tweezers for Sewing Use, and Seam Rippers; Fagotting Units About Which Cord May Be Wound Before Stitching Same; Sewing Machine Attachments—Namely, Embroidery, Braiding, Blind-Stitch Braiding, Flange Hemming, Shirring Plate, Tubular Trimming, Tucking, Cording, Zipper Foot, Darning Foot, Underbraiding, Bias Binding, Scroll Hemming, and Thread-Chain Cutting Attachments; Sewing Machine Power Tables and Stands, and Parts Thereof.

Claims use since December 1912.

Ser. No. 630,223. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 24, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.

For Family and Commercial Sewing Machines; Darning, Embroidery, Article Fastening, Hemstitching, Buttonhole Making, Eyeletting, and Ornamental Stitching Machines; Bobbin Winding, Crimping, Strip Cutting, Pressing, Strip Winding, Thread Drawing, Trimming, Pleating and Grinding Machines; Sewing Machine Needles; Air Blowing Apparatus Employed for Sewing Machine Needle Cooling and Lint-Dispersing; Loop-Forming Implements, Belt Punches, Honing Devices for Sharpening Knife Blades, Belt Tighteners for Removing the Slack From Power Transmission Belts, Scissors, Hand and Power Operated Cloth Pinking Devices, Wrenches, Screw Drivers, C-Clamps, Cloth Grippers for Securing a Work Material to or Upon a Table, Work-Holding Implements for Holding and Presenting Work Material to a Sewing Machine, Cutter Blades for Hand and Power Operated Cutting Devices, Finger Guards in the Form of Metal or Glass Screens for Preventing the Movement of an Operator's Fingers Beneath Stitching or Cutting Instrumentalities, Thread Lubricators for Furnishing and Applying Lubricant to a Sewing Thread, Stilettos, Tweezers for Sewing Use and Seam Rippers; Stocking Darners and Fagotting Units About Which Cord May Be Wound Before Stitching Same; Sewing Machine Attachments Including, Embroidery, Edge Stitching, Multiple Slotted Binder, Blind Stitch, Zigzag Hemstitching, Buttonholer, Binding, Gathering, Hemming, Ruffling, Braiding, Blind-Stitch Braiding, Flange Hemming, Quilting, Shirring Plate, Tubular Trimming Tucking, Cording, Zipper Foot, Darning Foot, Underbraiding, Bias Gauge, Cloth Guiding, Bias Binding, Scroll Hemming, Ornamental Stitching, and Thread-Chain Cutters; Sewing Machine Power Tables and Stands; Canvas and Bent Wooden Covers, and Portable Carrying Cases for Sewing Machines; Grease Guns; and Parts Therefor.

Claims use since 1880.

Ser. No. 630,740. United Equipment Co., Chicago, Ill. Filed June 4, 1952.

UniQuip

For Tool Stands and Work Benches, All Fabricated From Steel, Said Work Benches Having Wooden Tops.

Claims use since or about April 1950.

Ser. No. 633,682. Sargent & Company, New Haven, Conn. Filed Aug. 9, 1952. (Sec. 2f.)

MECHANICAL HAND

For Pliers.

Claims use since on or about Jan. 1, 1947.

Ser. No. 635,982. The Transmission & Gear Co., Dearborn, Mich. Filed Sept. 30, 1952.

TRANSO LOAD MASTER

The word "Load" is disclaimed apart from the mark as shown.

For Power Shovels.

Claims use since Mar. 14, 1952, as shown; and since Nov. 15, 1951, as to "Transo."

Ser. No. 637,274. James X. Green, doing business under the fictitious name and style of Key Manufacturing Co., Glendale, Calif. Filed Oct. 28, 1952.

TOPPY

For Bottle Openers and Closers.

Claims use since Oct. 6, 1952.

Ser. No. 637,552. Societe Civile Marep, Grosshans, Ollier (M. G. O.), Paris, France. Filed Nov. 3, 1952.

M·G·O

Applicant claims ownership of French Registration No. 419,895, dated May 7, 1952.

For Pressure Fluid Motors, Internal Combustion Motors, Jet Motors, Rocket Motors.

Ser. No. 637,669. Wm. Steinen Mfg. Company, Newark, N. J. Filed Nov. 5, 1952. (Sec. 2f.)

STEINEN

The drawing is lined for red.

For Telescoping Inspection Mirrors.

Claims use since Oct. 16, 1947, as to the mark shown; and since 1928, as to the mark "Steinen."

Ser. No. 639,753. The Gillette Company, Boston, Mass. Filed Dec. 19, 1952.



The line-markings in the drawing signify contrasting areas in the mark, and are not intended to limit the mark to any particular color or combination of colors.

For Safety Razors and Safety Razor Blades.

Claims use since Nov. 13, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 628,569. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady shown on the drawing is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.

For Pressing Machines for Pressing, Pleating, and Kilting Cloth; Ironing Boards, Sleeve Boards, Sleeve Board Pads, Sleeve Board Covers, and Ironing Board Covers; and Pressing Mitts.

Claims use since 1903.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 543,620. The McBee Company, Athens, Ohio. Filed Dec. 6, 1947. (Sec. 2f.)

KEYSORT SELECTOR

For Machine for Segregating Notched Cards.

Claims use since November 1939.

Ser. No. 600,543. Leslie Co., Lyndhurst, N. J. Filed July 12, 1950. (Sec. 2f.)

LESLIE

For Temperature-Controlled Valves, Self-Operated by Bellows, or Diaphragm Operated; Pressure Operated and Thermostatically Operated Valves, Operated by Diaphragm for Controlling Auxiliary Fluid, Such as Air, Gas, Water, or Oil for Operation of Diaphragm or Piston Servomotors in Response to Pressure, Differential Pressure, Pump Discharge Pressure Level, Temperature Changes, Etc., Pressure Indicators, Manually Controlled Valves and Control Panels Therefor Sold as a Unit.

Claims use since Mar. 11, 1937.

Ser. No. 613,454. Kay Electric Company, Pine Brook, N. J. Filed May 3, 1951.

VIBRALYZER

For Instrument Which Is a Sub-Audio and Audio Spectrograph Which Produces Permanent Visual Records Showing Distribution of Signal Amplitude, as to Both Frequency and Time. It Is Useful for Studies of Transient and Steady State Signals on Aircraft, Ships, Rotating and Reciprocating Machinery and in Fields Such as Ordinance, Ballistics, Seismology, and Acoustics.

Claims use since November 1950.

Ser. No. 619,858. Veeder-Root Incorporated, Hartford, Conn. Filed Oct. 10, 1951.

VR

The representation of a number wheel apart from the mark as shown is disclaimed.

For Counters and Registers Operated Mechanically, Electrically, Photoelectrically or Otherwise, and Parts Thereof, for Attachment to and for Operation by Any Type of Machine or Device Whose Successive Operations Are Desired To Be Counted or Recorded, Also Including Manually Operated Counters.

Claims use since Oct. 4, 1951.

Seer. No. 628,571. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, 98,707, and others.

For Thermoelectric Testing Devices for Providing a Temperature Indication of Needles and the Like Tools During the Operation Thereof and Measuring Devices—Namely, Yardsticks.

Claims use since Oct. 15, 1950.

Ser. No. 632,809. Webber Gage Company, Cleveland, Ohio. Filed July 19, 1952.

croblox

Applicant claims ownership of Registration No. 407,066.

For Gage Blocks.

Claims use since July 14, 1952.

Ser. No. 637,203. L. R. Murphy, doing business as L. R. Murphy Co., Sacramento, Calif. Filed Oct. 27, 1952. (Sec. 2f as to "Murphy.")

MURPHY WELDED STEEL SCALES

The words "Welded," "Steel," and "Scales" are disclaimed apart from the mark as a whole.

For Railroad Track Scales, Motor Truck Scales, Beam Industrial Scales, and Other Weighing Scales and Parts Thereof.

Claims use since Aug. 3, 1950, as shown; and since June 6, 1931, as to "Murphy."

Ser. No. 637,628. Vogel Luminescence Corporation, San Francisco, Calif. Filed Nov. 4, 1952.

VOGELITE EGG CANDLER

Applicant disclaims the words "Egg Candler" when used apart from the mark as a whole.

For Egg Candler.

Claims use since Feb. 7, 1951.

Ser. No. 637,668. Paragon-Revolute Corporation, Rochester, N. Y. Filed Nov. 5, 1952.

REVOLUTE ROCKET

Applicant claims ownership of Registrations Nos. 505,207 and 505,208.

For Machines for Exposing and Developing White Prints, Brown-Line Prints, and Similar Types of Reproductions.

Claims use since May 6, 1915.

Ser. No. 637,719. Raytheon Manufacturing Company, Newton, Mass. Filed Nov. 6, 1952.

MARK TWAIN

For Apparatus for Measuring Distances by Reflected Sound Waves or by Similar Acoustic Methods—Namely, for Apparatus for Determining Depths of Water and Soundings.

Claims use since April 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 630,265. Golden State Brush Company, North Hollywood, Calif. Filed May 26, 1952.



The representation of the boy is fanciful. The words "I'm Made With Genuine Nylon" are disclaimed apart from the mark as shown.

For Paint Brushes.

Claims use since Dec. 18, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 548,537. Selmix Dispenser Corporation, Long Island City, N. Y., assignor to General Bronze Corporation, Garden City, N. Y., a corporation of New York. Filed Jan. 31, 1948.

SELMIX

For Refrigerated Beverage Dispensing Apparatus and Parts Thereof, Comprising Cabinets, Syrup Tanks, Water Tanks, Carbonators Including Control Valves for Mixing Carbon Dioxide and Water, Valves for Mixing Carbonated Water and Syrup, Valves for Controlling the Flow of Syrup, Valves for Dispensing Admixed Carbonated Water and Syrup, and Cooling Devices.

Claims use since Mar. 30, 1946.

Ser. No. 613,881. Willard L. Morrison, Lake Forest, Ill. Filed May 15, 1951.

Crystalpoint

For Food Storage Refrigerators.

Claims use since on or about Nov. 1, 1949.

Ser. No. 625,994. National Filter Corporation, New York, N. Y. Filed Mar. 5, 1952.

NFC

Applicant claims ownership of Registration No. 404,001.

For Filter Apparatus and Parts Thereof — Namely, Plate and Frame Type Filters, Leaf Type Filters, Disc Filters for Gravity Filtration, or for Line Pressure Used for Wineries, Distilleries, Water and Beverage Plants, Pharmaceutical, Cosmetic, and Chemical Plants.

Claims use since Nov. 4, 1943.

Ser. No. 630,791. Pulverizing Machinery Company, Summit, N. J. Filed June 5, 1952.

HCE

For Air Filter Bags.

Claims use since on or about May 15, 1952.

Ser. No. 637,811. American Air Filter Company, Inc., Louisville, Ky. Filed Nov. 8, 1952.

AMER jet

For Self-Cleaning Mechanical Dust Collectors of the Dry Tubular Stocking Type.

Claims use since Sept. 25, 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 580,779. Flex-O-Lators, Inc., Carthage, Mo. Filed June 20, 1949.



Applicant disclaims exclusive right of the notation "Never Lets You Down" and the word "Mesh" per se and apart from the mark as shown and to the pictorial representation of the goods.

For Metal Spring Wire Pads Used in Articles of Furniture—Namely, in Mattresses and Cushions

Claims use since May 26, 1949.

Ser. No. 604,354. Buck Engineering Company, Inc., Freehold, N. J. Filed Oct. 3, 1950.

BENCO

For Racks, Stands, and Tables To Support or Transport Vacuum and Television Tubes During the Manufacture Thereof.

Claims use since July 28, 1950.

Ser. No. 617,144. The Franklin Furniture Company, Columbiana, Ohio. Filed July 31, 1951.

CHERRY-HILL

For Household Furniture—Namely, Rockers and Reclining Chairs.

Claims use since on or about July 1, 1950.

Ser. No. 623,886. John Hancock Manufacturing Company, San Diego, Calif. Filed Jan. 22, 1952.



The drawing is lined to indicate the color red, but color is not an essential feature of the mark.

For Indoor and Outdoor Furniture—Namely, Chairs, Tables, Chaise Longues, Love Seats, Ottomans, and Benches.

Claims use since December 1949.

Ser. No. 630,511. Nathan Ostrow, doing business as David Woodcraft Co., New York, N. Y. Filed May 29, 1952.

DAVCO

For Wall Shelf Units.

Claims use since Apr. 20, 1950.

Ser. No. 634,299. Edward Cohen, Pittsburgh, Pa. Filed Aug. 22, 1952.



The words "By Master Craftsmen of America" are disclaimed apart from the mark as shown.

For Mattresses, Bed Springs, Beds, Upholstered Chairs, Upholstered Stools, Upholstered Benches, Upholstered Settees, and Upholstered Sofas, and Pillows.

Claims use since on or about Apr. 1, 1952.

Ser. No. 634,461. Thomas A. Friedlander, Baltimore, Md. Filed Aug. 26, 1952.

KLEEN-WALL

For Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames.

Claims use since July 1951.

Ser. No. 634,462. Thomas A. Friedlander, Baltimore, Md. Filed Aug. 26, 1952.

OFF-WALL

For Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames.

Claims use since July 1951.

Ser. No. 634,463. Thomas A. Friedlander, Baltimore, Md. Filed Aug. 26, 1952.

WAL-SA-VER

For Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames.

Claims use since July 1951.

Ser. No. 635,939. Standard Pressed Steel Co., Jenkintown, Pa. Filed Sept. 29, 1952.

SPS

For Workdesks, Stools, Work Chairs, Posture Chairs, Linotype Operators' Chairs, Filing Stools, and Foremen's Desks.

Claims use since Mar. 29, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 586,688. C. A. Dunham Company, Chicago, Ill. Filed Oct. 22, 1949.

FIN-VECTOR

No claim is made to the exclusive use of the word "Fin" alone.

For Finned Tube Convectors.

Claims use since Oct. 5, 1949.

Ser. No. 614,915. A. P. V. Co., Ltd., London, England. Filed May 17, 1951.

PARAFLOW

Applicant claims ownership of British Registrations Nos. 682,823, 682,824, and 682,825, dated Sept. 29, 1949.

For Combined System of Machines for Pasteurizing and Cooling Milk, Fruit Juices, and Wines.

Ser. No. 632,323. Penn Ventilator Company, Philadelphia, Pa. Filed July 9, 1952.

HI-EX

No claim is made to the syllable "HI" as phonetically suggesting the word "High" apart from the mark as shown.

For Powered Roof Ventilators.

Claims use since Aug. 1, 1951.

Ser. No. 634,585. General Motors Corporation, Detroit, Mich. Filed Aug. 28, 1952.

Guidex

Applicant claims ownership of Registration No. 194,519.

For Reflectors.

Claims use since Aug. 8, 1952.

Ser. No. 636,254. J. Rose & Co. Inc., Brooklyn, N. Y. Filed Oct. 6, 1952.

Brookline

For Cooking Ranges.
Claims use since Feb. 1, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 621,163. Pacific Tire & Rubber Company, Oakland, Calif. Filed Nov. 13, 1951.



The drawing is lined for the colors red and blue.
For Vehicle Rubber Tires and Tubes and Camelback Material for Tire Retreading and Recapping.
Claims use since June 1947.

CLASS 37

PAPER AND STATIONERY

Ser. No. 304,346. A. W. Faber-Castell Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc. Original filed, act of 1905, June 21, 1946; amended to application under act of 1946, Principal Register, Oct. 3, 1947. (Sec. 2f as to "A. W. Faber.")

A. W. FABER
LOCKTITE

Applicant disclaims the word "Locktite" aside from the mark shown in the drawing. The name "A. W. Faber" is the name of an individual long since deceased. Applicant claims ownership of Registrations Nos. 95,531, 227,006, and others.
For Mechanical Pencils.
Claims use since Mar. 14, 1946, on the mark as shown, and since 1887 on "A. W. Faber."

Ser. No. 630,806. The Singer Manufacturing Company, Elizabeth, N. J. Filed June 5, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Marking Chalk.
Claims use since Apr. 22, 1951.

Ser. No. 636,841. Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Filed Oct. 18, 1952.

Productolith

For Coated Paper for Printing Purposes.
Claims use since Sept. 1, 1952.

Ser. No. 637,268. Crown Zellerbach Corporation, San Francisco, Calif. Filed Oct. 28, 1952.

Silk

Applicant claims ownership of Registrations Nos. 40,783, 243,603, and others.
For Paper Napkins, Facial Tissue, Waxed Paper, Shelf Paper, and Toilet Tissue.
Claims use since June 15, 1917.

Ser. No. 637,305. Eberhard Faber Pencil Company, Brooklyn, N. Y. Filed Oct. 29, 1952.

PERMALOY

For Fountain Pen Nibs.
Claims use since Oct. 21, 1952.

Ser. No. 637,958. Sterling Pulp & Paper Company, Eau Claire, Wis. Filed Nov. 12, 1952.

NURSES CHOICE

For Paper Napkins, Paper Towels, Toilet Tissue, Paper Facial Tissue, and Wax Paper.
Claims use since Apr. 19, 1952.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 608,903. Titus Bros. & Sons Music Company-Publisher, Philadelphia, Pa. Filed Jan. 17, 1951.

AND CHAR

For Printed Music and Printed Sheets Containing Music Notes of a New Form and Style in Which the Notes Are Graphically Depicted in Black and White Diagrams.
Claims use since Mar. 16, 1950.

Ser. No. 610,221. Meredith Publishing Company, Des Moines, Iowa. Filed Feb. 17, 1951.

Through the Shops
with Better Homes & Gardens

The word "Shops" is disclaimed except when used as a part of the mark as shown. Applicant claims ownership of Registrations Nos. 203,616 and 316,999.
For Magazine Feature.
Claims use since May 1946.

Ser. No. 611,311. Scene Publishing Company, Inc., St. Louis, Mo. Filed Mar. 14, 1951.

SCENE

For Semi-Monthly Periodical in the Nature of a Metropolitan Information and Entertainment Guide.
Claims use since Mar. 1, 1950.

Ser. No. 622,464. Clifford H. Smith, doing business as Picturesort Company, New Haven, Conn. Filed Dec. 13, 1951.

PICSORT

For Reproductions of Printed and Pictorial Matter Sold as Such.
Claims use since Nov. 24, 1951.

Ser. No. 622,465. Clifford H. Smith, doing business as Picturesort Company, New Haven, Conn. Filed Dec. 13, 1951.

PICTURESORT

For Reproductions of Printed and Pictorial Matter Sold as Such.
Claims use since Nov. 24, 1951.

Ser. No. 622,549. The Middlshade Company, Inc., Philadelphia, Pa. Filed Dec. 15, 1951.

"suitcronizer"

For Apparel Guide Book, Stock Book, and Swatch Book of Clothing Fashions for Men and Boys.
Claims use since Oct. 22, 1951.

Ser. No. 625,726. Esquire, Inc., Chicago, Ill. Filed Feb. 29, 1952.

Esquire

For Calendars.
Claims use since Oct. 1, 1946.

Ser. No. 625,727. Esquire, Inc., Chicago, Ill. Filed Feb. 29, 1952.

Esquire Girl

For Calendars and a Section or Feature in a Periodical Publication.
Claims use since Mar. 7, 1946.

Ser. No. 634,518. Avon Publishing Co. Inc., New York, N. Y. Filed Aug. 27, 1952.



Applicant disclaims the words "Book" and "Publication."
For Books.
Claims use since July 15, 1952.

Ser. No. 635,171. Broadcasting Publications, Inc., Washington, D. C. Filed Sept. 12, 1952. (Sec. 2f.)

BROADCASTING
TELECASTING

Applicant claims ownership of Registrations Nos. 316,401, 402,029, and others.
For Periodicals in the Nature of Trade Magazines Containing Advertising, News, and Comments on Radio Broadcasting and Television.
Claims use since May 1, 1944.

Ser. No. 635,821. Dupuis Sons, & Co. Inc., New York, N. Y. Filed Sept. 26, 1952.

FAMILY

The shading in the drawing does not represent any color. No claim is made to the exclusive use of the letters "TV" apart from the mark as shown in the drawing.
For Weekly Periodical.
Claims use since Aug. 31, 1952.

Ser. No. 635,968. Isabelle B. Jack, doing business as Rainbow Rembrandts Studios, Fallbrook, Calif. Filed Sept. 30, 1952.

ISABELLE'S

For Sets of Color Charts.
Claims use since May 1, 1952.

Ser. No. 636,014. Huntington Laboratories, Inc., Huntington, Ind. Filed Oct. 1, 1952.

SEAL-O-SAN

Applicant claims ownership of Registration No. 294,950.
For Periodic Publication.
Claims use since September 1937.

Ser. No. 636,688. Chicago Tribune-New York News Syndicate, Inc., New York, N. Y. Filed Oct. 16, 1952.

GLEN FORREST

"Glen Forrest" is a fictitious name. The drawing is lined for blue.
For Series of Cartoons.
Claims use since Sept. 14, 1952.

Ser. No. 637,823. Heli-Coil Corporation, Danbury, Conn. Filed Nov. 8, 1952.

THE *HELI*-COIL

For Magazine.
Claims use since Sept. 3, 1952.

Ser. No. 638,132. Buzza-Cardozo, Los Angeles, Calif. Filed Nov. 15, 1952.

Happy-Heart

For Greeting Cards.
Claims use since on or about May 22, 1952.

Ser. No. 638,621. Hyman Wisbengrad, doing business under the firm name and style of Editors Syndicate, New York, N. Y. Filed Nov. 25, 1952.

THE HANDY HOMERS

For Comic Strip.
Claims use since May 5, 1952.

CLASS 39
CLOTHING

Ser. No. 564,909. Herbert Sondheim, Inc., New York, N. Y. Filed Sept. 9, 1948.

HERBERT SONDHEIM
"SONDETTE"

For Ladies' and Misses' Dresses and Suits.
Claims use since June 9, 1948.

Ser. No. 578,119. Levi Strauss & Company, San Francisco, Calif. Filed Apr. 30, 1949.



The drawing is lined for red. The mark consists of a small marker or tab, of textile material or the like, colored red, appearing on and affixed permanently to the exterior of the garment in a position that the red tab is visible, while the garment is being worn. Applicant claims ownership of Registrations Nos. 356,701 and 404,248.
For Overalls.
Claims use since Sept. 1, 1936.

Ser. No. 599,945. The Hettrick Manufacturing Company, Toledo, Ohio. Filed June 29, 1950. (Sec. 2f as to "Hettrick.")

HETTRICK EMPIRE

Applicant claims ownership of Registrations Nos. 501,631, 505,206, and others.
For Sweaters, Basque Shirts, Shirts for Sport Use, and Pajamas for Men, Women, and Children.
Claims use since March 1949.

Ser. No. 604,374. Manchester Hosiery Mills, Boston, Mass. Filed Oct. 3, 1950.



The words "Lady Hampshire" and the representation of the stocking are disclaimed.
For Ladies' Stockings.
Claims use since July 21, 1950.

Ser. No. 609,128. Blanche Gritton, Chicago, Ill. Filed Jan. 23, 1951.

Blanch-ette

For Women's and Children's Wearing Apparel—Namely, Dresses, Hosiery, Slips, Panties, Pajamas, Nightgowns, Blouses, Negligees, Girdles, and Brassières.
Claims use since Apr. 18, 1949.

Ser. No. 614,425. Dalton, Inc., Cleveland, Ohio. Filed May 28, 1951. (Sec. 2f.)

Dalton

For Women's Sweaters.
Claims use since Feb. 26, 1951.

Ser. No. 616,174. Jolly Kids Togs, Chicago, Ill. Filed July 6, 1951.

JOLLY-KOZY SLEEP

The words "Kozy Sleep" in so far as the same is the phonetic equivalent of the descriptive words "Cozy Sleep," are disclaimed apart from the mark.
For Infants' Sleeping Garments Consisting of Sleeping Bags.
Claims use since March 1951.

Ser. No. 619,248. Caryl Leslie Creations, Philadelphia, Pa. Filed Sept. 26, 1951.

pangerie

For Pantie Girdles.
Claims use since Aug. 24, 1951.

Ser. No. 619,251. Lubin-Weeker Co., Inc., New York, N. Y. Filed Sept. 26, 1951.



For Men's and Women's Pajamas.
Claims use since May 10, 1951.

Ser. No. 620,182. Wrightwear Limited, Sutton-in-Ashfield, England. Filed Oct. 18, 1951.

ESSINAY

For Brassières, Bodices, Garments Comprising Camisoles and Knickers, Chemises, Corsets, Drawers, Knickers, Panties, Petticoats, Under Shirts, Under Shorts, Trunks, Socks and Stockings for Wear by Ladies and Men.
Claims use since Sept. 27, 1937; and first used in commerce between Great Britain and the United States on Mar. 21, 1938.

Ser. No. 623,282. Mart Fashions, Inc., New York, N. Y. Filed Jan. 7, 1952.

NORLON Trill

The term "Nubb" is disclaimed apart from the mark as shown on the drawing.
For Women's and Misses' Dresses and Suits.
Claims use since Nov. 20, 1951.

Ser. No. 623,846. Napper Company, Incorporated, Winnetka, Ill. Filed Jan. 21, 1952.

Little Dippers



For Infants' Play Garment Set Consisting of Shirt and Pants.
Claims use since June 10, 1950.

Ser. No. 623,869. Berkshire Knitting Mills, Wyomissing and Reading, Pa. Filed Jan. 22, 1952.



The words "No More Garter Runs," are disclaimed apart from the mark shown.
For Women's Full-Fashioned Hosiery.
Claims use since Jan. 2, 1952.

Ser. No. 624,146. The Olympic Glove Company, Inc., New York, N. Y. Filed Jan. 26, 1952.

OLYMPIC

Applicant claims ownership of Registration No. 274,823.
For Protective Clothing for Industrial Workers—Namely, Gloves, Mittens, Aprons, Sleeves, Leggings, Capes, Spats, Trouser Legs, Finger Sheaths, Trousers Minus the Seat Portion, Hand and Foot Guards, Head Hoods, Hats, Overalls; All Said Goods Being Made of Leather, Cloth, Asbestos, Natural Rubber, Synthetic Rubber, Plastic, Cotton, Rayon, Wool, Canvas, and Duck, and of Combinations of Such Materials.
Claims use since December 1926.

Ser. No. 628,777. Plastics Products Company, Inc., Dallas, Tex. Filed Apr. 26, 1952.

Seal

For Men's, Women's, Boys', and Girls' Raincoats.
Claims use since Nov. 1, 1951.

Ser. No. 631,781. George Heckerman, Great Neck, N. Y. Filed June 26, 1952.

TRIQUETTE

For Women's and Misses' Nightgowns, and Negligee and Nightgown Ensembles.
Claims use since June 5, 1952.

Ser. No. 632,402. Weiss Lawrence, Inc., Somersworth, N. H. Filed July 10, 1952.

Chloro Mocs

The word "Mocs" is disclaimed apart from the mark as shown.
For Shoes of Leather, Fabric, Other Materials, and Combinations Thereof for Men, Women, and Children.
Claims use since June 16, 1952.

Ser. No. 634,201. Abraham Landau, New York, N. Y. Filed Aug. 20, 1952.

Asla

For Women's and Girls' Hosiery.
Claims use since June 1952.

Ser. No. 634,469. Hosiery Sales Company, New York, N. Y. Filed Aug. 26, 1952.

Paisley

For Ladies' and Misses' Hosiery.
Claims use since Aug. 23, 1951.

Ser. No. 634,511. Joseph Harvey Wilson, Sr., trustee, Murphy, N. C. Filed Aug. 26, 1952.

MURNOCA

For Hosiery for Women and Girls.
Claims use since Apr. 24, 1952.

Ser. No. 635,915. W. T. Grant Company, New York, N. Y. Filed Sept. 29, 1952.

Joyce Lane

The name "Joyce Lane" is fanciful. Applicant claims ownership of Registration No. 513,542.
For Women's and Misses' Blouses, Dresses, Sweaters, Shirts, Skirts, Coats, Suits, Shorts, Pedal Pushers, Slacks, Jackets, Jeans, Sport Bras, Halters, and Sport Caps.
Claims use since July 29, 1943.

Ser. No. 636,228. Alfred M. Frager, doing business as A. M. Frager & Co., St. Louis, Mo. Filed Oct. 6, 1952.

Magic Touch

For Ladies' Hosiery.
Claims use since Feb. 20, 1947.

Ser. No. 636,231. The Grove Company, St. Louis, Mo. Filed Oct. 6, 1952.

SIDE-LINERS

For Storm Coats for Men, Women, and Children.
Claims use since May 29, 1952.

Ser. No. 636,509. H & J Block Inc., New York, N. Y. Filed Oct. 11, 1952.

Nylo Queen

For Infants' and Children's Wear—Namely, Coats and Dresses.
Claims use since January 1952.

Ser. No. 636,580. Archer Mills, Inc., Columbus, Ga. Filed Oct. 14, 1952.

Archline

For Ladies' Hosiery.
Claims use since Aug. 1, 1952.

Ser. No. 636,699. Salom Friedman, doing business under the name of Efef Trading Company, New York, N. Y. Filed Oct. 16, 1952.

Reputation

For Ladies' Hosiery.
Claims use since 1948.

Ser. No. 636,934. Mandarin Textiles Limited, Kowloon, Hong Kong. Filed Oct. 21, 1952.

DYNASTY

For Women's Pajamas, House Coats, Blouses, Evening and Cocktail Jackets; and Men's Dressing Gowns, Pajamas, and Smoking Jackets.
Claims use since September 1951 in Hong Kong; and was first used in commerce between Hong Kong and the United States in May 1952.

Ser. No. 637,360. Burlington Mills Corporation, Greensboro, N. C. Filed Oct. 30, 1952.

Leg-O-Genic

For Women's Hosiery.
Claims use since June 24, 1952.

Ser. No. 638,723. The La Resista Corset Company, Bridgeport, Conn. Filed Nov. 28, 1952.

For Brassières.
Claims use since on or about Oct. 1, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 628,561. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.

No claim is made to the representation of the sewing needles apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 12,396, 20,065, and others.
For Hand Sewing Needles.
Claims use since June 21, 1910.

Ser. No. 629,261. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 6, 1952.

The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Hand Sewing Needles; Needle Threaders; Needle Cases; Skirtmarkers; Buttons, Buckles and Clasps; and Stocking Darning and Embroidery Hoops.
Claims use since 1880.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 601,883. Boston Quilting Corp., Franklin, Mass. Filed Aug. 8, 1950.

Kettie-Kwilt

The word "Kwilt" is disclaimed.
For Quilted Innerlinings Sold by the Yard for Women's and Men's Coats, Jackets, and Robes.
Claims use since May 18, 1950.

Ser. No. 615,891. Cyril P. Frommelt, doing business as Frommelt Industries, Dubuque, Iowa. Filed June 29, 1951.

RAY-FOIL

No claim to the exclusive use of the word "Foil" is made except in connection with the mark "Ray-Foil."
For Laminated Cloth and Foil Material Sold in Sheet Form and Designed for Use in Making Heat and Spark Deflecting Shields and Clothing.
Claims use since Sept. 1, 1950.

Ser. No. 626,396. Manufactures de Senones (Vosges) Societe a Responsabilite Limitee, Paris, France. Filed Mar. 13, 1952.

Antifroiss

Applicant claims ownership of French Registration No. 452,658, dated June 11, 1949.
For Textile Fabrics Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon.

Ser. No. 631,134. United States Rubber Company, New York, N. Y. Filed June 12, 1952.

TRILOK

For Woven Corrugated Textile Fabrics of Synthetic Filaments.
Claims use since May 16, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 636,244. Morell Novelty Co. Inc., New York, N. Y. Filed Oct. 6, 1952.



The words "Poodle Knit Yarn" are disclaimed apart from the mark as shown on the drawing.
For Knitting Yarns.
Claims use since Sept. 2, 1952.

Ser. No. 638,656. Livetex, Inc., Philadelphia, Pa. Filed Nov. 26, 1952.

Livetex

For Rubber Threads and Robber Yarns.
Claims use since Mar. 1, 1950.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,048. Edgar D. Moore, Charlotte, N. C. Filed Oct. 16, 1951.

MOORE-PERMA-BASE



The words "Moore" and "Base" are disclaimed apart from the mark as shown.
For a Liquid and Powder Compound Comprising Powdered Polymerized Methyl Methacrylate Resin, a Liquid Monomer of Methyl Methacrylate and a Stabilizer of Hydroquinone for Permanent Relining of Dentures.
Claims use since Aug. 31, 1950.

Ser. No. 621,874. Maurice H. Dupont, doing business as M. I. Dupont Dental Mfg. Co., Lowell, Mass. Filed Nov. 30, 1951.

Perma Base

The word "Base" is disclaimed apart from the mark as shown.
For Powders Comprising Methyl Methacrylate Polymer and Liquids Comprising Methyl Methacrylate Monomer Which May be Mixed to Form Materials Which May Be Used for the Relining and Repair of Dentures.
Claims use since May 1, 1951.

Ser. No. 622,814. Dental Fillings Limited, London, England. Filed Dec. 26, 1951.

Dentafil

For Filling Material for the Manufacture of Permanent Fillings and for the Construction of Crowns, Facings, and Inlays in Dentistry.
Claims use since June 1, 1948, in Great Britain; and use in commerce between Great Britain and the United States since Mar. 12, 1950.

Ser. No. 634,109. Parke, Davis & Company, Detroit, Mich. Filed Aug. 18, 1952.

U-PADS

No claim is made to the word "Pads" apart from the mark as shown.
For Disposable Absorbent Underpad for Use on Hospital Beds.
Claims use since Feb. 29, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 568,618. Hartman Beverage Company, Knoxville, Tenn. Filed Nov. 12, 1948.



Exclusive use of the words "Mountain Dew" is not claimed apart from the rest of the mark.
For Non-Alcoholic Maltless Beverages Sold as Soft Drinks, and Syrups for Making the Same.
Claims use since Sept. 24, 1948.

Ser. No. 601,350. Paul J. Madigan, doing business under the name Hoosierland Orchards, Anderson, Ind. Filed Aug. 1, 1950.

HOOSIERLAND

Applicant claims ownership of Registration No. 365,914.
For Apple Cider.
Claims use since Oct. 15, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 570,399. Allied Fruit & Extract Co., Inc., New York, N. Y. Filed Dec. 13, 1948. (Sec. 2f.)

DAINTY-MAID

Applicant claims ownership of Registration No. 196,225.
For Jams, Jellies, Crushed, Broken, and Whole Fresh Fruits Which Are Bottled for Use at Soda Fountains, Preserved Nuts Used as Toppings and in Cooking Foods and Ingredients of Food.
Claims use since July 16, 1923.

Ser. No. 601,859. Albers Milling Company, Los Angeles, Calif. Filed Aug. 8, 1950.

SCATTER PAKS

Applicant claims ownership of Registrations Nos. 303,958 and 320,782.
For Poultry Feed.
Claims use since July 1950.

Ser. No. 609,160. Boone Valley Farm, Defiance, Mo. Filed Jan. 24, 1951.

BOONE VALLEY FARM

The words "Boone" and "Farm" are disclaimed apart from the mark as shown in the drawing.
For Field Grains—Namely, Corn for Use as Live Stock Feed.
Claims use since Nov. 10, 1950.

Ser. No. 612,851. De Erve H. de Jong N. V., Wormerveer, Netherlands. Filed Apr. 19, 1951.



Priority under Sec. 44(d). Dutch application filed Oct. 27, 1950, Reg. No. 106,681, dated Nov. 4, 1950. No claim is made to the exclusive use of the words "Kon. Cacao- en Chocoladefabrieken," "Wormerveer" and "Original" apart from the mark as shown. No claim is made to the exclusive use of the term "De Erve H. de Jong N. V."
For Chocolate Candies.

Ser. No. 615,282. Ottawa Foods, Hamilton, Mich., assignor to Dog Life Corporation, Chicago, Ill., a corporation of Michigan. Filed June 16, 1951.

DOG LIFE

The word "Dog" is disclaimed apart from the mark.
For Kibbled Dog Food, Dog Biscuits, and Dog Meal.
Claims use since May 15, 1951.

Ser. No. 615,427. D. E. Winebrenner Company, Inc., Hanover, Pa. Filed June 19, 1951.

DEWCO BRAND

The word "Brand" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 330,974.
For Canned Vegetables and Canned Vegetable Juices.
Claims use since Jan. 1, 1934.

Ser. No. 618,845. Consolidated Products Company, Danville, Ill. Filed Sept. 15, 1951.

PEX

Applicant claims ownership of Registration No. 398,584.
For Poultry Feed.
Claims use since Aug. 22, 1951.

Ser. No. 621,297. Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware. Filed Nov. 15, 1951.



The drawing is lined to indicate the colors pink and blue. The trade-mark consists of a pink band encircling the lower part of the container the vertical width of which covers approximately three-fourths of the label, surmounted by a blue circle projecting the major portion of its area into said pink band with the letters SMA appearing within said circle. Applicant claims ownership of Registrations Nos. 135,195 and 369,064.

For Liquid Food Formula for Infant Feeding.

Claims use since 1937.

Ser. No. 622,197. Brandao & Companhia, Limitada, Matoxinhos, Portugal. Filed Dec. 7, 1951.



The figure shown in the drawing is fanciful. The expression "A Varina" means fish woman. Applicant claims ownership of Portuguese Registration No. 70,219, dated Jan. 17, 1950, and United States Registration No. 292,347.

For Canned, Pickled, Salted, Smoked, and Preserved Fish; Canned Shellfish, Canned Fruits and Vegetables; Jams, Jellies, and Marmalades; Canned Beef, Veal, Mutton, Lamb, Pork, Poultry, Game, and Sausage; Pickles, Olives, and Olive Oil.

Ser. No. 624,137. Everett Johnston, doing business as King Salad Avocado Co., Vista and Fallbrook, Calif. Filed Jan. 28, 1952.

ENSALADA del REY

"Ensalada del Rey" means "Salad of The King" in English. Applicant claims ownership of Registrations Nos. 360,809 and 543,070.

For Fresh Avocados.

Claims use since Nov. 24, 1951.

Ser. No. 626,264. Richman Ice Cream Co., Sharptown and Woodstown, N. J. Filed Mar. 11, 1952.



FRENCH ICE CREAM

The picture and the name used do not identify any particular living individual. The words "Excellent French Ice Cream" are disclaimed since they refer to the name of the goods.

For French Ice Cream.

Claims use since Jan. 5, 1947.

Ser. No. 629,655. Diet Foods, Inc., San Francisco, Calif. Filed May 14, 1952.

Distwise

For Dietary Food Products—Namely, Whipped Diet Diet Dressings; Louis XIV French Type and Other Diet Salad Dressings; Diet Fruit Jellies and Jams—Namely, Raspberry, Blackberry, Loganberry, Boysenberry, Strawberry, Concord Grape, and Apple.

Claims use since Sept. 14, 1950.

Ser. No. 637,099. El Chico Cafe, Dallas, Tex. Filed Oct. 27, 1952.



The picture shown on the drawing is fanciful and is not a portrait of any known living individual. The drawing is lined for red and green but color is not claimed as an essential feature of the mark.

For Canned Goods—Namely, Enchiladas, Enchilada Sauce, Hot Pepper Sauce (the Ingredients of Which Are Tomatoes, Water, Hot Pepper, Salt and Garlic), Tamales With Chili Gravy, Chili Con Carne, Chili Con Carne With Beans, Menudo (Beef Tripe), Mexican Style Rice, Fried Beans (Frijoles), Tortillas, and Pralines.

Claims use since Mar. 31, 1948.

Ser. No. 638,604. Purity Pretzel Company, Harrisburg, Pa. Filed Nov. 25, 1952.



The words "Purity" and "Loaded With Nourishment" are disclaimed apart from the mark as shown in the drawing.

For Pretzels and Pretzel Sticks.

Claims use since May 1952.

Ser. No. 639,807. Sallie Chase, Incorporated, Newton, Conn. Filed Dec. 20, 1952.

Sallie Chase

The mark "Sallie Chase" is a facsimile signature of a living individual, also known as Charlotte S. Chase, whose consent to the use and registration of the mark has been filed.

For Fruit Cake, Stuffed Dates, Pfeffernuesse Cookies, Pecan Pies, and Maple Walnut Cake.

Claims use since Mar. 27, 1950.

Ser. No. 639,936. E. F. Kemp Corp., Somerville and Winter Hill, Somerville, Mass. Filed Dec. 23, 1952. (Sec. 2f.)

Kemp's

Applicant claims ownership of Registration No. 509,853. For Salted and Unsalted Nuts and Peanut Butter Spread.

Claims use since 1933.

Ser. No. 639,937. E. F. Kemp Corp., Somerville and Winter Hill, Somerville, Mass. Filed Dec. 23, 1952. (Sec. 2f.)



The horizontal bands emanating from the circular design continue around the package. Applicant claims ownership of Registration No. 509,853.

For Salted and Unsalted Nuts.

Claims use since 1942.

Ser. No. 639,938. E. F. Kemp Corp., Somerville and Winter Hill, Somerville, Mass. Filed Dec. 23, 1952. (Sec. 2f.)

E.F.Kemp

The mark is a facsimile of the signature of E. F. Kemp, founder of the applicant corporation, and is used by his written consent. Applicant claims ownership of Registration No. 509,853.

For Salted and Unsalted Nuts and Peanut Butter Spread.

Claims use since 1926.

CLASS 47

WINES

Ser. No. 563,525. Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France. Original filed, act of 1946, Supplemental Register, July 8, 1948; amended to application, Principal Register, Apr. 15, 1949.

Romanee Conti

Applicant claims ownership of French Registration No. 124,735, dated Jan. 14, 1928.

For Wines.

Claims use since prior to the year 1800; and first used in commerce between France and the United States prior to 1852.

Ser. No. 563,539. Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France. Filed July 15, 1948.

DOMAINE DE LA ROMANÉE-CONTI

Applicant claims ownership of French Registration No. 127,410, dated Jan. 14, 1928.

For Wines.

Claims use since 1927; and first used in commerce between France and the United States on Dec. 5, 1933.

Ser. No. 580,394. Berke Brothers Distilleries Inc., Boston, Mass. Filed June 14, 1949.

Colonial Lamp Base

For Wines.

Claims use since May 16, 1949.

Ser. No. 580,395. Berke Brothers Distilleries Inc., Boston, Mass. Filed June 14, 1949.

Grecian Urn

For Wines.

Claims use since May 16, 1949.

Ser. No. 618,082. Comunidad Viña San José-Tocornal, Santiago, Chile. Filed Aug. 25, 1951.



The name "Ismael Tocornal" appearing on the label is the name of the founder (now deceased) of the applicant corporation. All wording on the drawing, except "Ismael Tocornal," is disclaimed apart from the mark as a whole.

For Wines.

Claims use since 1943 and first used in commerce between Chile and the United States in 1943.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 627,061. Frankenmuth Brewing Company, Frankenmuth, Mich. Filed Mar. 26, 1952. (Sec. 2f.)

Frankenmuth

Applicant claims ownership of Registrations Nos. 309,662 and 335,974.
For Beer.
Claims use since Oct. 14, 1933.

Ser. No. 632,027. Galveston-Houston Breweries, Inc., Galveston, Tex. Filed July 1, 1952.

Southern Select

No claim of exclusive right to use of the word "Select" apart from the mark as shown is made. Applicant claims ownership of Registrations Nos. 301,299, 301,774, and 540,514.
For Beer.
Claims use since Jan. 8, 1951.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 557,430. John Crabbie & Co. Limited, Leith, Scotland. Filed May 20, 1948. (Sec. 2f.)

CRABBIE

Applicant claims ownership of British Registration No. 630,079, dated July 23, 1946.
For Scotch Whiskey.
Claims use since 1896 in Great Britain; and first used in commerce between Great Britain and the United States in 1902.

Ser. No. 622,083. L. J. McGuinness & Company, Limited, Mimico, Ontario, Canada. Filed Dec. 4, 1951.

D'Eaubonne

Applicant claims ownership of Canadian Registration No. NS 15,886–60, dated July 5, 1941.
For Alcoholic Cordials and Liqueurs.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 623,119. Miller and Rhoads, Incorporated, Richmond, Va. Filed Dec. 10, 1951. (Sec. 2f.)

THE SHOPPING CENTER

Applicant claims ownership of Registration No. 344,796.
For Rubber Sink Mats; Carpet Pads, Cushions, and Underlays.
Claims use since April 1917.

Ser. No. 625,482. Malt-A-Plenty, Inc., Tulsa, Okla. Filed Feb. 25, 1952.

Big Inch

For Paper Drinking Straws.
Claims use since Nov. 10, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 608,844. Malvina D. Myers, doing business under the style name of Sure Shot Laboratories, Mobile, Ala. Filed Jan. 22, 1951.

SURE-SHOT

Applicant claims ownership of Registration No. 273,954.
For Topical Liquid Preparation for Treatment of Dandruff.
Claims use since Nov. 15, 1929.

Ser. No. 614,313. Puerto Rico Distilling Company, sometimes trading as Pto. Rico Distilling Co., Arecibo, Puerto Rico. Filed May 24, 1951. (Sec. 2f.)

SUPERIOR 70

Applicant claims ownership of Registration No. 508,985.
For Skin Lotion.
Claims use since Aug. 12, 1930.

Ser. No. 630,960. Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Filed June 9, 1952.

TORRID

For Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, and Perfumed, Powdered Sachet.
Claims use since Sept. 1, 1938.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 609,542. Economics Laboratory, Inc., St. Paul, Minn. Filed Feb. 2, 1951.

SOIL-A-WAY

Applicant claims ownership of Registrations Nos. 186,368 and 536,498.
For Dishwashing Compound.
Claims use since Nov. 27, 1950.

Ser. No. 619,410. Wally Shulan, doing business as Wally Shulan & Co., New York, N. Y. Filed Sept. 29, 1951.

Try

For Household Detergent.
Claims use since Sept. 1, 1951.

Ser. No. 630,455. Stanley Home Products, Inc., Westfield, Mass. Filed May 28, 1952.

Try-it

For Liquid Detergent.
Claims use since July 24, 1951.

Ser. No. 631,802. Harry H. Rogers Co. Inc., Chicago, Ill. Filed June 26, 1952.

ROGERSOL

For Cleaning Solutions and Solvents for Industrial Use.
Claims use since 1939.

Ser. No. 634,413. The Knoten Company, Memphis, Tenn. Filed Aug. 25, 1952.

STA-SUDS

The drawing is lined for green; no claim is made to color. No claim is made to the syllable "Suds" apart from the mark as shown.
For Synthetic Detergent Powder for Hand and Machine Washing Operations.
Claims use since Dec. 12, 1949.

Ser. No. 630,271. Calgon, Incorporated, Pittsburgh, Pa. Filed Oct. 7, 1952.

THANX

For Cleansing and Detergent Compound for Use in Dishwashing and Other Washing and Cleansing Operations.
Claims use since Sept. 18, 1952.

Ser. No. 638,196. Enthone, Incorporated, New Haven, Conn. Filed Nov. 17, 1952.

ETCHALUME

For Composition for Cleaning and Etching Aluminum.
Claims use since on or about Aug. 12, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 572,510. Monsanto Chemical Company, St. Louis, Mo. Filed Jan. 21, 1949. (Sec. 2f.)

SERVING INDUSTRY··· WHICH SERVES MANKIND

For Technical Services Rendered to Industry in the Testing of Materials and the Design and Operation of Chemical Plants.
Claims use since May 1939.

Ser. No. 624,813. Ralph E. Burt, doing business as Ralph E. Burt Associates, Springfield, Mass. Filed Feb. 12, 1952.



The lining indicates red.
For Consulting Services to Manufacturers Relating to Quality in Products, Safety in the Plant, Production Efficiency, and Better Employee Relations.
Claims use since Jan. 21, 1952.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 625,471. The Fort Industry Company, Birmingham, Mich., now by change of name Storer Broadcasting Company. Filed Feb. 25, 1952.

Ladies' Day

For Advertising the Goods and Services of Others Through the Medium of Radio and Television Programs.
Claims use since Sept. 11, 1950.

Ser. No. 626,029. Ray Gilinm Enterprises, Inc., Baltimore, Md. Filed Mar. 6, 1952.

SHOP-LOOK-LISTEN

For Advertising the Goods and Services of Others Through the Medium of Television and Radio Programs.
Claims use since Dec. 20, 1950.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 612,465. Modern Woodmen of America, Rock Island, Ill. Filed Apr. 10, 1951.



The expression "The Polio Protection Plus!" is disclaimed apart from the mark as shown by the drawing.

For Underwriting of Life Insurance Combined With Polio Insurance for Its Members as a Fraternal Benefit Society.

Claims use since Jan. 27, 1951.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 540,400. Mildred A. Freeman, executrix of the estate of her husband Edwin M. Freeman, deceased, Denver, Colo. Filed Nov. 7, 1947.

PORCELAINIZING

Applicant claims ownership of Registration No. 350,353.

For Cleaning, Polishing, and Applying a Finishing Film to an Automobile, the Film Serving To Protect the Polished Surface.

Claims use since 1946.

Ser. No. 540,401. Mildred A. Freeman, executrix of the estate of her husband Edwin M. Freeman, deceased, Denver, Colo. Filed Nov. 7, 1947.

PORCELAINIZED

Applicant claims ownership of Registration No. 350,353.

For Cleaning, Polishing, and Applying a Finishing Film to an Automobile, the Film Serving To Protect the Polished Surface.

Claims use since 1938.

Ser. No. 622,872. Union Oil Company of California, Los Angeles, Calif. Filed Dec. 26, 1951. CERTIFICATION MARK.



The lines indicate red, gold, and blue. The words "Emblem of Highest Merit," "The Ultimate in Dry Cleaning," and "For Finest Fabrics" are disclaimed apart from the mark.

For Dry Cleaning of Fabrics.

Claims use since July 20, 1951.

CLASS 106

MATERIAL TREATMENT

Ser. No. 615,840. McCall Corporation, New York, N. Y. Filed June 28, 1951. (Sec. 2f.)



The applicant disclaims rights in the words "Magazine," "Photoengraving," "Division," "Of," "The," "Corporation," "Stamford," and "Connecticut" apart from the mark as a whole.

For Engraving, Etching, and Preparing by Related Processes Printing Plates for Others To Be Used in Reproducing Pictures and Other Illustrative Material in Publications.

Claims use since May 1, 1932.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 632,094. Mildred Teal Mills, doing business under the name and style of The Mildred Teal Mills Greater Artist Series, Wenatchee, Wash. Filed July 2, 1952.

THE MILDRED TEAL MILLS
GREATER ARTIST SERIES

The descriptive words "Greater Artist Series" are disclaimed apart from the mark as shown.

For Providing Entertainment Services in the Nature of Concerts Performed Under Sponsorship of Local Civic, Fraternal, and Business Organizations.

Claims use since in or about December 1949.

Ser. No. 634,471. Max M. Jacobs, doing business as Midnight Attractions, Cleveland, Ohio. Filed Aug. 26, 1952.



For Entertainment Services Comprising the Production of Dramatic Mystery Presentations Performed on Stage and Screen.

Claims use since June 14, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

573,919. WITHDRAWN.

573,920. Women's Shoes of Leather, Fabric, and Combinations Thereof. The Longini Shoe Manufacturing Co., Cincinnati, Ohio.
Filed July 29, 1947, Serial No. 529,901. Published Dec. 18, 1951. Class 39.

573,921. Plumbing and Steam Fitting Supplies—Namely, Pipe and Conduit Fittings Composed of Pre-Cast Sectional Asbestos Material. The Philip Carey Manufacturing Company, Cincinnati, Ohio.
Filed May 7, 1948, Serial No. 556,411. Published May 29, 1951. Class 12.

573,922. Domestic Dishes Made of Plastic for Table Use. Delaware Industrial Chemical Corporation, Beverly, N. J.
Filed Aug. 17, 1948, Serial No. 563,605. Published June 17, 1952. Class 2.

573,923. Sudsing Cleaner, Cleanser, and Detergent. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Oct. 21, 1948, Serial No. 567,430. Published Feb. 10, 1953. Class 32.

573,924. Steel Dispensers for Sugar, Napkins, Straws, Salt, and Pepper, for Use in Restaurants. Guarantee Metal Products, Inc., Los Angeles, Calif.
Filed Oct. 29, 1948, Serial No. 567,863. Published Feb. 10, 1953. Class 2.

573,925. Organic Odoriferous and Flavor-Imparting Chemicals; Organic Chemicals Used as Ingredients of Paints, Varnishes, Drying Inks, Bactericidal, Fungicidal, Insecticidal, and Preservative Compositions. Givaudan-Delawanna, Inc., New York, N. Y.
Filed Dec. 14, 1948, Serial No. 570,486. Published Feb. 10, 1953. Class 6.

573,926. Empty Double-Seamed Lacquer-Lined Low-pressure Containers Equipped With Dispensing Valves. Reddi-Wip, Inc., St. Louis, Mo.
Filed Dec. 17, 1948, Serial No. 570,722. Published Feb. 10, 1953. Class 2.

573,927. Oil Field Tools and Machinery—Namely, Hydraulic Casing Pulling Machines, Etc. Wilson Manufacturing Company, Wichita Falls, Tex., and elsewhere.
Filed June 3, 1949, Serial No. 579,959. Published Jan. 6, 1953. Class 23.

573,928. Canned Fish. Romeo Packing Co., San Francisco, Calif.
Filed Aug. 26, 1949, Serial No. 584,079. Published Feb. 3, 1953. Class 46.

573,929. Acid Proof Material Composed of Polymer Vinyl Resins Combined With Inert Pigments and Plasticizers, Used for Lining or Coating Steel or Concrete Pipes, Structures, Tanks, Vats, Walls, Floors, Etc. Amercoat Corporation, South Gate, Calif.
Filed Mar. 6, 1950, Serial No. 593,456. Published Feb. 10, 1953. Class 12.

573,930. Acid Proof Material Composed of Polymer Vinyl Resins Combined With Inert Pigments and Plasticizers, Used for Lining or Coating Steel or Concrete Pipes, Structures, Tanks, Vats, Walls, Floors, Etc. Amercoat Corporation, South Gate, Calif.
Filed Mar. 6, 1950, Serial No. 593,457. Published Feb. 10, 1953. Class 12.

573,931. Acid Proof Material Composed of Polymer Vinyl Resins Combined With Inert Pigments and Plasticizers, Used for Lining or Coating Steel or Concrete Pipes, Structures, Tanks, Vats, Walls, Floors, Etc. Amercoat Corporation, South Gate, Calif.
Filed Mar. 6, 1950, Serial No. 593,458. Published Feb. 10, 1953. Class 12.

573,932. Cravats. William Mayer, doing business under the name H. & M. Neckwear Co., New York, N. Y.
Filed Apr. 14, 1950, Serial No. 595,720. Published Apr. 3, 1951. Class 39.

573,933. Hampers for Soiled Laundry, Made of Fiber. Pearl-Wick Corporation, Long Island City, N. Y.
Filed May 3, 1950, Serial No. 596,798. Published Feb. 10, 1953. Class 2.

573,934. Paper Having a Sufficiently Significant Amount of a Fluorescent Component, Etc. Switzer Brothers, Inc., Cleveland, Ohio.
Filed July 8, 1950, Serial No. 600,402. Published Aug. 5, 1952. Class 37.

573,935. Cardboard Boxes. Gerber Products Company, Fremont, Mich.
Filed July 31, 1950, Serial No. 601,495. Published Feb. 10, 1953. Class 2.

573,936. Canned Apples. Medomak Canning Company, Rockland, Maine.
Filed Aug. 10, 1950, Serial No. 602,047. Published Feb. 10, 1953. Class 46.

573,937. Speed Controls for Outboard Motors—Namely, Spring Actuated Accelerator Button Located on the Steering Handle for Controlling the Speed by Opening and Closing the Carburettor Throttle of an Outboard Motor. National Pressure Cooker Company, Eau Claire, Wis.
Filed Aug. 11, 1950, Serial No. 602,103. Published Jan. 6, 1953. Class 23.

573,938. Bags Made of Laminated Paper. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Aug. 21, 1950, Serial No. 602,486. Published Feb. 10, 1953. Class 2.

573,939. Lubricating Oils. Consumers Oil Company, New York, N. Y.
Filed Aug. 23, 1950, Serial No. 602,603. Published Oct. 16, 1951. Class 15.

573,940. Semi-Felted Fabric Including Among Other Fibers, Fibers of Thermoplastic Material Sold in the Piece for Various Uses, Etc. American Felt Company, Glenville, Conn.
Filed Aug. 25, 1950, Serial No. 602,737. Published Feb. 10, 1953. Class 50.

573,941. Infants' Shoes Made of Leather. Moran Shoe Company, Carlyle, Ill.
Filed Sept. 15, 1950, Serial No. 603,590. Published Jan. 27, 1953. Class 39.

573,942. Door Locks. National Brass Company, Grand Rapids, Mich.
Filed Oct. 9, 1950, Serial No. 604,636. Published Jan. 15, 1952. Class 25.

573,943. Liquid Casein Glue, Crystal Clear Cement, Powdered Casein Glue, and Plastic Resin Glue. Herman J. Reich, doing business as Magic Iron Cement Company, Cleveland, Ohio.
Filed Oct. 17, 1950, Serial No. 605,054. Published Feb. 17, 1953. Class 5.

573,944. Rubber Preservative and Rust Inhibitor. Industrial Research Laboratories, Houston, Tex.
Filed Nov. 28, 1950, Serial No. 607,027. Published Feb. 17, 1953. Class 6.

573,945. Footwear—Namely, Men's Shoes. The Florsheim Shoe Company, Chicago, Ill.
Filed Dec. 18, 1950, Serial No. 607,804. Published Jan. 20, 1953. Class 39.

573,946. Handbags and Fitted Handbags. Evans Case Co., North Attleboro, Mass.
Filed Dec. 21, 1950, Serial No. 607,946. Published Feb. 10, 1953. Class 3.

573,947. Potassium-Bearing Soil Amender for Use in Connection With Tobacco Soil Treatment. H. E. Fletcher Co., West Chelmsford, Mass.
Filed Dec. 21, 1950, Serial No. 607,947. Published Feb. 10, 1953. Class 10.

573,948. Women's Dresses, Aprons, Blouses, Skirts, Shirtwaists, Playsuits, Halters, Scarfs, Men's and Women's Slacks, Shorts and Jackets, Men's Outer Shirts, Undershirts and Undershorts, and Shoes, Sportshoes, and Sandals, All Made Wholly or Partly of Linen. Etablissements Veuve Louis Tant, Roulers, Belgium.
Priority under Sec. 44(d). Belgian Registration No. 2,414, filed Sept. 29, 1950.
Filed Jan. 13, 1951, Serial No. 608,753. Published Jan. 20, 1953. Class 39.

573,949. Partially Blank Business Forms. The Standard Register Company, Dayton, Ohio.
Filed Jan. 18, 1951, Serial No. 608,960. Published Dec. 30, 1952. Class 37.

573,950. Fabric Sleeves for Dampening Rollers of Lithographing Machines and Machines for Applying Fabric Sleeves to Dampening Rollers of Lithographic Machines. Roberts & Porter, Inc., Chicago, Ill.
Filed Mar. 3, 1951, Serial No. 610,801. Published Sept. 23, 1952. Class 23.

573,951. Shoes and Slippers of Leather for Men and Women. Sherman Footwear Company, Marlboro, Mass.
Filed Mar. 24, 1951, Serial No. 611,744. Published Jan. 20, 1953. Class 39.

573,952. Men's and Boys' Shoes. Craddock-Terry Shoe Corporation, Lynchburg, Va.
Filed Mar. 26, 1951, Serial No. 611,769. Published Jan. 20, 1953. Class 39.

573,953. Footwear—Namely, Boots and Shoes Made Wholly or Partly of Rubber for the Use of Men, Women, and Children. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio.
Filed Mar. 31, 1951, Serial No. 612,069. Published Jan. 20, 1953. Class 39.

573,954. Worsted Fabric in the Piece. Society Brand Clothes, Inc., Chicago, Ill.
Filed Apr. 11, 1951, Serial No. 612,519. Published Feb. 10, 1953. Class 42.

573,955. Wallets, Billfolds, Pocketbooks, Travel Kits, Sold Empty. Centra Leather Goods Corporation, New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,586. Published Feb. 10, 1953. Class 3.

573,956. Chemical Compositions Which Are Sold for Addition to Coal To Promote Combustion, To Prevent Soot and To Remove Soot From Surfaces on Which Soot Has Previously Formed. National Aluminate Corporation, Chicago, Ill.
Filed Apr. 16, 1951, Serial No. 612,700. Published Feb. 10, 1953. Class 6.

573,957. Wallets. Philip Florin, Inc., New York, N. Y.
Filed May 17, 1951, Serial No. 613,984. Published Feb. 10, 1953. Class 3.

573,958. Jewelry for Personal Wear or Adornment—Namely, Finger Rings and Mountings, Etc. Hallmark Ring Corporation, Chicago, Ill.
Filed May 23, 1951, Serial No. 614,250. Published Feb. 3, 1953. Class 28.

573,959. School Bags and Carrying Cases (Canvas or Leather or Combinations Thereof) in the Nature of Brief Cases. Sears, Roebuck and Co., Chicago, Ill.
Filed June 14, 1951, Serial No. 615,195. Published Feb. 10, 1953. Class 3.

573,960. Resin Forming Composition. Trojan Powder Company, Allentown, Pa.
Filed June 18, 1951, Serial No. 615,357. Published Feb. 10, 1953. Class 6.

573,961. Flexible, Translucent, and Transparent Sheet Materials, Etc. Flex-O-Glass, Inc., Chicago, Ill.
Filed June 19, 1951, Serial No. 615,378. Published Jan. 27, 1953. Class 50.

573,962. Bobbins for Use in the Textile Industry. New England Bobbin and Shuttle Co., Nashua, N. H.
Filed June 30, 1951, Serial No. 615,941. Published Jan. 6, 1953. Class 23.

573,963. Fertilizer. Farmers Educational and Cooperative Union of America, Denver, Colo.
Filed July 2, 1951, Serial No. 615,977. Published Jan. 20, 1953. Class 10.

573,964. Magnesium Salts. Merck & Co., Inc., Rahway, N. J.
Filed July 7, 1951, Serial No. 616,210. Published Feb. 10, 1953. Class 6.

573,965. Automotive Power Plant Testing Apparatus. Sun Electric Corporation, Chicago, Ill.
Filed July 13, 1951, Serial No. 616,458. Published Feb. 10, 1953. Class 26.

573,966. Ladies', Misses', and Juniors' Coats and Suits. Baitch & Castaldi, Inc., New York, N. Y.
Filed July 17, 1951, Serial No. 616,583. Published Jan. 20, 1953. Class 39.

573,967. Paperboard Shipping Cases. The Rochester Folding Box Co., Rochester, N. Y.
Filed July 17, 1951, Serial No. 616,609. Published Feb. 10, 1953. Class 2.

573,968. Boring Drills for Enlarging Preformed Holes. The Skillcraft Machine Tool Company, West Hartford, Conn.
Filed July 18, 1951, Serial No. 616,647. Published Jan. 6, 1953. Class 23.

573,969. Mother-of-Pearl Gift Products and Accessories—Namely, Pill Boxes, Lipstick Cases, Compacts, and Miniature Compacts All the Foregoing Sold Empty. The Marhill Co. Inc., New York, N. Y.
Filed July 26, 1951, Serial No. 616,746. Published Feb. 10, 1953. Class 2.

573,970. Cat and Dog Collars, Leashes, and Harnesses. John S. Regal & Son, Inc., Cambridge, Mass.
Original filed, act of 1946, Supplemental Register, July 31, 1951; amended to application, Principal Register, May 21, 1952, Serial No. 617,161. Published Aug. 5, 1952. Class 3.

573,971. Automobile Visors. Dieterich Products Corporation, Michigan City, Ind.
Filed Aug. 7, 1951, Serial No. 617,392. Published Sept. 16, 1952. Class 19.

573,972. Liquid Cleaner for Windows, Mirrors, Automobile Windshields, and Other Metal Automotive Parts. The Joyner Corporation, Bourbon, Ind.
Filed Aug. 8, 1951, Serial No. 617,445. Published Feb. 10, 1953. Class 52.

573,973. Impregnated Safety Matches. Union Allumettière Société Anonyme, Brussels, Belgium.
Filed Aug. 10, 1951, Serial No. 617,564. Published Feb. 17, 1953. Class 9.

573,974. Miniature Figures Used for Coordinating and Planning Women's Wardrobes. Marion A. McKinney, Chicago, Ill.
Filed Aug. 24, 1951, Serial No. 618,054. Published Feb. 3, 1953. Class 50.

573,975. Gift Wrapping Materials—Namely, Wrapping Papers, Paper Seals, Paper Ribbons, Paper Novelties, Paper Designs, and Paper Gift Wrapping Tie-Ons. Modern Packagings, Dallas, Tex.
Filed Aug. 25, 1951, Serial No. 618,096. Published Dec. 30, 1952. Class 37.

573,976. Educational Game Including Questions and Answers and an Electrical Signal System for Indicating Correct Answers. Irving Jacobs, doing business under the trade name and style of Jacmar Mfg. Company, New York, N. Y.
Filed Sept. 26, 1951, Serial No. 619,244. Published Feb. 10, 1953. Class 22.

573,977. Single-Use Injection Unit Containing a Hypodermic Antibiotic Preparation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Sept. 27, 1951, Serial No. 619,313. Published Jan. 20, 1953. Class 18.

573,978. Resin Compositions Sold in Liquid and Granule Form for Use in Molding, Casting, and in the Manufacture of Laminates. Snyder Chemical Corporation, Bethel, Conn.
Filed Oct. 2, 1951, Serial No. 619,433. Published Feb. 10, 1953. Class 6.

573,979. Perambulators and Push-Chairs, All Being Toys. D. Sebel and Company Limited, Erith, Kent, England.
Filed Oct. 1, 1951, Serial No. 619,477. Published Feb. 17, 1953. Class 22.

573,980. Valves of the Type Used in the Control of the Liquid Flow in Water Treatment Apparatus. Automatic Pump & Softener Corporation, Rockford, Ill.
Filed Oct. 5, 1951, Serial No. 619,596. Published Feb. 10, 1953. Class 13.

573,981. Zinc. Societe des Mines et Fonderies de Zinc de la Vieille-Montagne, Angleur, Belgium.
Filed Oct. 9, 1951, Serial No. 619,772. Published Feb. 17, 1953. Class 14.

573,982. Antiseptic and Bacteriostatic Preparation for Reducing Infections in the Eye and in Superficial Wounds. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,794. Published Jan. 20, 1953. Class 18.

573,983. Antibiotic and Vitamin Supplement for Livestock and Poultry Feeds. Vylactos Laboratories, Inc., Des Moines, Iowa.
Filed Oct. 18, 1951, Serial No. 620,178. Published Jan. 20, 1953. Class 18.

573,984. Textile Fabrics in the Piece Made of Wool. Strass-Einiger Mills, Inc., New York, N. Y.
Filed Oct. 29, 1951, Serial No. 620,630. Published Feb. 10, 1953. Class 42.

573,985. Porcelain Nozzles for Use in Sand Blast Equipment. Frenchtown Porcelain Company, Frenchtown, N. J.
Filed Nov. 1, 1951, Serial No. 620,779. Published Jan. 27, 1953. Class 13.

573,986. Ladies' and Men's Clothing—Namely, Suits, Topcoats, Raincoats, Overcoats, Sport Jackets and Trousers, Four-in-Hand and Bow Ties, Outer Shirts, and Belts. Edward Jacobs, Baltimore, Md.
Filed Nov. 7, 1951, Serial No. 620,966. Published Jan. 20, 1953. Class 39.

573,987. Medicinal Preparation in Tablet Form for the Relief of Temporary Gastric Acidity. M. P. Hoodenpyl, doing business as Remedol Laboratories, Nashville, Tenn.
Filed Nov. 16, 1951, Serial No. 621,316. Published Jan. 20, 1953. Class 18.

573,988. Papers for Use in Making of Bank Checks, Stock Subscription Warrants, and for Like Purposes. E. E. Lloyd Paper Company, Chicago, Ill.
Filed Nov. 16, 1951, Serial No. 621,322. Published Dec. 30, 1952. Class 37.

573,989. Metal Clips for Suspended Ceilings of Buildings. Level-Line Ceilings Inc., New York, N. Y.
Filed Nov. 17, 1951, Serial No. 621,369. Published Jan. 20, 1953. Class 13.

573,990. Suppositories of Sedative Action. Premo Pharmaceutical Labs., Inc., South Hackensack, N. J.
Filed Dec. 1, 1951, Serial No. 621,982. Published Jan. 27, 1953. Class 18.

573,991. Boots and Shoes for Men and Women. Manfield and Sons, Limited, Northampton, England.
Filed Dec. 4, 1951, Serial No. 622,079. Published Dec. 30, 1952. Class 39.

573,992. Natural and Artificial Abrasives—Namely, Abrasive Coated Cloth or Paper and Combinations of Abrasive Paper and Cloth. Durex Abrasives Corporation, New Rochelle, N. Y.
Filed Dec. 7, 1951, Serial No. 622,206. Published Feb. 17, 1953. Class 4.

573,993. Boxes Made of Synthetic Resin. The Bolta Company, Lawrence, Mass.
Filed Dec. 21, 1951, Serial No. 622,737. Published Feb. 10, 1953. Class 2.

573,994. Utility Bowls for Foods, for Domestic, Hotel, and Restaurant Use, Made of Synthetic Resin. The Bolta Company, Lawrence, Mass.
Filed Dec. 21, 1951, Serial No. 622,738. Published Feb. 10, 1953. Class 2.

573,995. Hollowware and Tableware Made of Sterling Silver in Combination With Ceramics. Gorham Manufacturing Company, Providence, R. I.
Filed Dec. 27, 1951, Serial No. 622,892. Published Feb. 10, 1953. Class 28.

573,996. Refined Irish Moss Extract Used as a Thickening, Suspending, or Gelling Agent in Food, Drug, and Cosmetic Preparations. Algin Corporation of America, New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,325. Published Feb. 17, 1953. Class 6.

573,997. Refined Sodium Carrageenate Used as a Thickening, Suspending, or Gelling Agent in Food, Drug, and Cosmetic Preparations. Algin Corporation of America, New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,328. Published Feb. 17, 1953. Class 6.

573,998. Fungicides in Pelletized Form. United States Rubber Company, New York, N. Y.
Filed Jan. 10, 1952, Serial No. 623,442. Published Feb. 17, 1953. Class 6.

573,999. Golf Clubs. Sport Products, Inc., Cincinnati, Ohio.
Filed Jan. 5, 1952, Serial No. 623,446. Published Feb. 10, 1953. Class 22.

574,000. Underground and Aboveground Tanks—Namely, Sump Tanks, Elevated Tanks, Basement Tanks, Skid Tanks. Gasoline Equipment Manufacturing Company, Inc., Indianapolis, Ind.
Filed Jan. 14, 1952, Serial No. 623,540. Published Feb. 10, 1953. Class 2.

574,001. Textile Fabrics of Wool and Mixtures of Wool, Cotton, and Synthetic Fibers. Carlton Mills Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,330. Published Feb. 10, 1953. Class 42.

574,002. Fastening Laces for Belting. Mastabar Belt Fastener Co. Limited, Hull, England.
Filed Jan. 31, 1952, Serial No. 624,347. Published Feb. 10, 1953. Class 35.

574,003. Resinous Composition Impregnated With Minute Particles of Magnetizable Material. Melpar, Inc., Alexandria, Va.
Filed Feb. 7, 1952, Serial No. 624,652. Published Feb. 10, 1953. Class 6.

574,004. Fresh and Frozen Fish. Olmstead Fisheries Limited, Wheatley, Ontario, Canada.
Filed Feb. 7, 1952, Serial No. 624,650. Published Feb. 10, 1953. Class 46.

574,005. Asphaltic Plastic Roof Cement, Caulking Compound, Sewer Joint Primer, Etc. Charles L. Aylward, Jr., doing business as The Aylward Products Company, Kansas City, Mo.
Filed Feb. 9, 1952, Serial No. 624,725. Published Feb. 10, 1953. Class 12.

574,006. Builders' Hardware—Namely, Locks, Latches, and Locking Bolts. Hollymade Hardware Mfg. Co., Los Angeles, Calif.
Filed Feb. 16, 1952, Serial No. 625,069. Published Sept. 30, 1952. Class 25.

574,007. Boric Acid Spangles for Use in Rendering Floors Suitably Smooth and Slippery for Dancing. Borax Consolidated, Limited, doing business as Pacific Coast Borax Co., Division of Borax Consolidated, Limited, London, England, and Los Angeles, Calif.
Filed Feb. 18, 1952, Serial No. 625,094. Published Feb. 17, 1953. Class 4.

574,008. Metal Combination Storing and Cooking Containers. The Aluminum Cooking Utensil Company, New Kensington, Pa.
Filed Feb. 19, 1952, Serial No. 625,180. Published Feb. 10, 1953. Class 13.

574,009. Rollable Cases Used for Keeping Therein Vacuum Cleaners and Vacuum Cleaner Parts. Fred Heinze, Rutherford, N. J.
Filed Feb. 23, 1952, Serial No. 625,421. Published Feb. 10, 1953. Class 2.

574,010. Plastic Holder for Flower Corsage. Robert Dunie, doing business as Northern Greenhouses, Chicago, Ill.
Filed Feb. 25, 1952, Serial No. 625,467. Published Feb. 10, 1953. Class 2.

574,011. Textile Fabrics Wholly of Wool and in Substantial Part of Wool Combined With Cotton and Synthetic Fibers. Woonsocket Spinning Company, Inc., Woonsocket, R. I.
Filed Feb. 26, 1952, Serial No. 625,557. Published Feb. 10, 1953. Class 42.

574,012. Wetting Agent for Metals, Textiles, and Synthetic Fibres; and Acid Accelerator for Use in Acids for Carbonizing, Pickling, Galvanizing, Anodizing, Wire Drawing, and Descaling. Haas Miller Corporation, Philadelphia, Pa.
Filed Feb. 27, 1952, Serial No. 625,594. Published Feb. 10, 1953. Class 6.

574,013. Bales of Used Clothing. Rogers Used Clothing Co. Inc., New York, N. Y.
Filed Mar. 1, 1952, Serial No. 625,821. Published Jan. 20, 1953. Class 39.

574,014. Plumbing Fixtures—Viz., Sink Strainer Valves and Parts Therefor Comprising Washers, Baskets, Handles, Stem, and Nuts. Stephen A. Young Corporation, Flora, Ind.
Filed Mar. 4, 1952, Serial No. 625,942. Published Jan. 20, 1953. Class 13.

574,015. Soaps and Shampoos. Galen Laboratories, Pittsburgh, Pa.
Filed Mar. 11, 1952, Serial No. 626,239. Published Feb. 17, 1953. Class 52.

574,016. Solidified Air Freshening Deodorant. Seeman Brothers, Inc., New York, N. Y.
Filed Mar. 11, 1952, Serial No. 626,269. Published Feb. 10, 1953. Class 6.

574,017. Pots and Pans. Veal Corporation, San Francisco, Calif.
Filed Mar. 11, 1952, Serial No. 626,275. Published Feb. 10, 1953. Class 13.

574,018. Soap. The Selig Company, Inc., Atlanta, Ga.
Filed Mar. 12, 1952, Serial No. 626,346. Published Feb. 10, 1953. Class 52.

574,019. Men's Neckties and Suits Made of Cloth or Piece Goods of Worsted, Mohair, Etc. B. Priestley & Co., Inc., New York, N. Y.
Filed Apr. 4, 1952, Serial No. 626,840. Published Jan. 27, 1953. Class 39.

574,020. Ladies' Shoes. Metropolitan Shoemakers, Inc., Chicago, Ill.
Filed Mar. 22, 1952, Serial No. 626,804. Published Jan. 27, 1953. Class 39.

574,021. Women's Shoes Made of Leather, Fabric, and Textiles. Vogue Shoe, Inc., Los Angeles, Calif.
Filed Mar. 25, 1952, Serial No. 627,022. Published Jan. 27, 1953. Class 39.

574,022. Brass Pipe and Plumbing Supplies—Namely, Basin Supply Pipes, Etc. Scovill Manufacturing Company, Waterbury, Conn.
Filed Mar. 26, 1952, Serial No. 627,093. Published Feb. 10, 1953. Class 13.

574,023. Vehicle Brakes and Parts Thereof and Operating Connections Therefor; Etc. Bendix Aviation Corporation, Detroit, Mich.
Filed Apr. 2, 1952, Serial No. 627,422. Published Feb. 17, 1953. Class 19.

574,024. Index Sheets With Tabs. Cel-U-Dex Corporation, Brooklyn, N. Y.
Filed Apr. 3, 1952, Serial No. 627,487. Published Dec. 30, 1952. Class 37.

574,025. Post Binder Indexes. Cel-U-Dex Corporation, Brooklyn, N. Y.
Filed Apr. 3, 1952, Serial No. 627,488. Published Dec. 30, 1952. Class 37.

574,026. Insertable Index Tab Sets and Also Acetate Covers With Insertable Index Tab Sets. Cel-U-Dex Corporation, Brooklyn, N. Y.
Filed Apr. 3, 1952, Serial No. 627,491. Published Dec. 30, 1952. Class 37.

574,027. Boots and Shoes Made of Leather, Cloth, Rubber, and Combinations Thereof for Use of Men, Women, and Children. Soinit Shoe Co., Los Angeles, Calif.
Filed Apr. 7, 1952, Serial No. 627,707. Published Jan. 20, 1953. Class 39.

574,028. Toilet Tissues. Sitroux, Incorporated, New York, N. Y.
Filed Apr. 9, 1952, Serial No. 627,844. Published Dec. 30, 1952. Class 37.

574,029. Paper Table Appointments—Namely, Napkins, Coasters, and Doilies. Antell & Jones, Inc., Philadelphia, Pa.
Filed Apr. 10, 1952, Serial No. 627,856. Published Dec. 30, 1952. Class 37.

574,030. Piece Goods of Cotton. M. & W. Thomas Co., New York, N. Y.
Filed Apr. 10, 1952, Serial No. 627,907. Published Feb. 10, 1953. Class 42.

574,031. Boots and Shoes Made of Leather, Fabric, and/or Combination Thereof for Men, Women, and Children. C. H. Iyer & Sons, Olathe, Kans.
Filed Apr. 11, 1952, Serial No. 627,943. Published Jan. 20, 1953. Class 39.

574,032. Paper Tissues (Adapted for Removing Skin Creams, for Use as Handkerchiefs, and for Similar Purposes). Pond's Extract Company, New York, N. Y.
Filed Apr. 16, 1952, Serial No. 628,168. Published Dec. 30, 1952. Class 37.

574,033. Women's and Misses' Dresses, Suits, Skirts, Blouses, Coats, and Jackets. Melrod Ritter, New York, N. Y.
Filed Apr. 17, 1952, Serial No. 628,219. Published Jan. 20, 1953. Class 39.

574,034. Eau de Cologne. Lever Brothers Company, New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,409. Published Feb. 10, 1953. Class 51.

574,035. Curtains for Windows and Doorways, Portières, Bath Mats, Shower Curtains, Bedspreads, Draperies, All Made of Textile Fabrics. Shulman Abrash, Inc., Paterson, N. J.
Filed Apr. 16, 1952, Serial No. 628,507. Published Feb. 10, 1953. Class 42.

574,036. Creme Hair Rinse. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass.
Filed Apr. 25, 1952, Serial No. 628,688. Published Feb. 10, 1953. Class 51.

574,037. Sun Tan Lotion. Max Sidelman, trading as Maxon Distributors, New York, N. Y.
Filed Apr. 29, 1952, Serial No. 628,880. Published Feb. 10, 1953. Class 51.

574,038. Window Curtains. Berkshire Fine Spinning Associates, Inc., Adams, Mass., and Providence, R. I.
Filed May 2, 1952, Serial No. 629,085. Published Feb. 10, 1953. Class 42.

574,039. Soil Conditioner. Henry A. Dreer, Inc., Philadelphia, Pa.
Filed May 6, 1952, Serial No. 629,236. Published Feb. 17, 1953. Class 10.

574,040. Women's and Girls' Shoes, Slippers, and Loafers of Leather, Fabric, and Combinations Thereof, and With Leather or Rubber Soles. National Bellas Hess, Inc., North Kansas City, Mo.
Filed May 9, 1952, Serial No. 629,453. Published Jan. 20, 1953. Class 39.

574,041. Plant Food. Antro Gardens, Inc., Lyons, N. Y.
Filed May 15, 1952, Serial No. 629,709. Published Feb. 10, 1953. Class 10.

574,042. Bed Sheets. Pacific Mills, New York, N. Y.
Filed May 15, 1952, Serial No. 629,744. Published Feb. 10, 1953. Class 42.

574,043. Sub-Soil Feeding Tube Comprising a Water Soluble Plant Food Cartridge Chamber Holding a Supply of Water and Fertilizer for Supplying Water and Fertilizer to the Roots of Plants and the Like. Rosemary V. Blazek, doing business as Aero Feeder Company, Minneapolis, Minn.
Filed May 19, 1952, Serial No. 629,883. Published Feb. 3, 1953. Class 13.

574,044. Therapeutic Vaginal Capsule for Use in Vaginal Disorders Such as Gonorrhea, Endocervicitis, Cervical Erosions and After Certain Gynecological Operative Procedures. The Purdue Frederick Company, New York, N. Y.
Filed May 21, 1952, Serial No. 630,020. Published Feb. 10, 1953. Class 18.

574,045. Solution of Essential Nutrients—Namely, Vitamins, Minerals, and Other Nutrients and Appetite Stimulants Specifically Formulated for the Aged. The Purdue Frederick Company, New York, N. Y.
Filed May 21, 1952, Serial No. 630,024. Published Feb. 10, 1953. Class 18.

574,046. Kits Containing Artist's Oil Colors, Artist's Brush, the Article To Be Ornamented Such as Trays, Baskets, Etc., and Directions for Ornamenting the Article, Sold as a Unit. The Malls Co., Baltimore, Md., assignor to Tole Craft Products, Inc., Baltimore, Md., a corporation of Maryland.
Filed May 26, 1952, Serial No. 630,276. Published Feb. 10, 1953. Class 50.

574,047. Textile Floor Rugs. Sidney Blumenthal & Co., Inc., New York, N. Y.
Filed Jan. 2, 1952, Serial No. 630,293. Published Feb. 10, 1953. Class 42.

574,048. Preservative for Silage for Livestock Composed of Crude Corn Sugar, Corn Gluten Feed, Corn Solubles, and Diammonium Phosphate. Clinton Foods, Inc., Clinton, Iowa.
Filed May 28, 1952, Serial No. 630,389. Published Feb. 10, 1953. Class 46.

574,049. Gasoline, Motor Oil, Kerosene, and Diesel Fuel. Rose Oil Company, Vicksburg, Miss.
Filed June 2, 1952, Serial No. 630,618. Published Feb. 17, 1953. Class 15.

574,050. Knitted and Woven Fabrics Made of Wool, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof Sold in the Piece. Continental Mills, Inc., Philadelphia, Pa.
Filed May 23, 1952, Serial No. 630,653. Published Feb. 10, 1953. Class 42.

574,051. Knitted and Woven Fabrics Made of Wool, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof Sold in the Piece. Continental Mills, Inc., Philadelphia, Pa.
Filed May 23, 1952, Serial No. 630,655. Published Feb. 10, 1953. Class 42.

574,052. Traveling Cases and Traveling Bags. Youth Made Bags, Inc., New York, N. Y.
Filed June 5, 1952, Serial No. 630,819. Published Feb. 10, 1953. Class 3.

574,053. Machine, Wood, and Metal Screws. Recessed Screw Co., Inc., New York, N. Y.
Filed June 7, 1952, Serial No. 630,911. Published Jan. 13, 1953. Class 13.

574,054. Dual Axle Spring Assemblies for Vehicles. Neway Equipment Company, Muskegon, Mich.
Filed June 10, 1952, Serial No. 631,019. Published Feb. 10, 1953. Class 19.

574,055. Sheet Metal Tumblers and Bowls. Basca Manufacturing Company, Inc., Indianapolis, Ind.
Filed June 11, 1952, Serial No. 631,040. Published Jan. 20, 1953. Class 13.

574,056. Pharmaceuticals—Namely, Isonicotinic Acid Hydrazide Tablets. These Isonicotinic Acid Hydrazide Tablets Are Used for the Treatment of Streptomycin-Resistant Tuberculosis. Intermedico Corporation, New York, N. Y.
Filed June 17, 1952, Serial No. 631,290. Published Feb. 10, 1953. Class 18.

574,057. Woolen Piece Goods. E. M. Bloomberg & Co. Inc., Chicago, Ill.
Filed June 18, 1952, Serial No. 631,338. Published Feb. 10, 1953. Class 42.

574,058. Rayon Piece Goods. Pacific Mills, Boston, Mass., and New York, N. Y.
Filed June 18, 1952, Serial No. 631,372. Published Feb. 10, 1953. Class 42.

574,059. Flame Cut Steel Shapes, Metal Bands and Hoops, Wire, and Steel Shafting. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed June 20, 1952, Serial No. 631,498. Published Feb. 10, 1953. Class 14.

574,060. Flame Cut Steel Shapes, Metal Bands and Hoops, Wire, and Steel Shafting. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed June 20, 1952, Serial No. 631,499. Published Feb. 10, 1953. Class 14.

574,061. Handbags. Aetna Leather Novelty Co., Inc., Union City, N. J.
Filed June 25, 1952, Serial No. 631,710. Published Feb. 10, 1953. Class 3.

574,062. Textile Fabrics in the Piece Composed of Rayon, Cotton, Linen, Wool, Nylon, and Combinations Thereof. Robert R. Scott Corp., New York, N. Y.
Filed June 27, 1952, Serial No. 631,895. Published Feb. 10, 1953. Class 42.

574,063. Sheet Fibreboard for Use in Making Midsoles for Shoes, and Leatherboard for Use in Making Built Up Heels for Shoes. George O. Jenkins Company, Bridgewater, Mass.
Filed June 28, 1952, Serial No. 631,934. Published Feb. 10, 1953. Class 50.

574,064. Shoe Lasts and Parts of Lasts. Alexander W. McNeill, Saugus, Mass.
Filed July 1, 1952, Serial No. 632,038. Published Feb. 3, 1953. Class 50.

574,065. Stimulants and Fertilizers, Made From Organic and Inorganic Materials, for Roses. Rose Manufacturing Company, Beacon, N. Y.
Filed July 8, 1952, Serial No. 632,270. Published Feb. 10, 1953. Class 10.

574,066. Rail Anchoring Stud. American Brake Shoe Company, New York, N. Y.
Filed July 9, 1952, Serial No. 632,282. Published Feb. 17, 1953. Class 14.

574,067. Detergent for Removing Dried Blood, Mucus, Body Soil, Dirt, Chemicals, and Contamination in Filters, Needles, Glassware, Microscopes, Slides, and Surgical and Laboratory Equipment. American Hospital Supply Corporation, Evanston, Ill.
Filed July 9, 1952, Serial No. 632,283. Published Feb. 10, 1953. Class 52.

574,068. Bactericide for Use on Glassware, Dishes, and the Like. J. C. Paul & Co., Skokie, Ill.
Filed July 9, 1952, Serial No. 632,321. Published Feb. 10, 1953. Class 6.

574,069. All Types of Steel and Alloy Steel Components To Be Assembled in Finished Articles and Produced by Forging, Stamping, and Cutting. The Zeller Corporation, Defiance, Ohio.
Filed July 17, 1952, Serial No. 632,706. Published Feb. 17, 1953. Class 14.

574,070. Upholstery Materials Made of Cotton, Rayon, Silk, and Synthetic Fibers, and Mixtures of Such Fibers. Mastercraft Weaving Corp., Paterson, N. J.
Filed July 18, 1952, Serial No. 632,736. Published Feb. 10, 1953. Class 42.

574,071. Fabrics-in-the-Piece, Made of Wool and Synthetic Fibers. Grandma Moses Properties, Inc., New York, N. Y.
Filed July 21, 1952, Serial No. 632,835. Published Feb. 10, 1953. Class 42.

574,072. Brief Cases and Brief Bags. Acme Brief Case Co. Inc., New York, N. Y.
Filed July 22, 1952, Serial No. 632,863. Published Feb. 10, 1953. Class 3.

574,073. Virgin Wool Fabrics. Washougal Woolen Mills, Washougal, Wash.
Filed July 23, 1952, Serial No. 632,968. Published Feb. 10, 1953. Class 42.

574,074. Lubricating Oil. The Standard Oil Company, Cleveland, Ohio, and elsewhere.
Filed July 28, 1952, Serial No. 633,177. Published Jan. 27, 1953. Class 15.

574,075. Insecticides. Guy D. Austin, Miami, Fla.
Filed July 29, 1952, Serial No. 633,191. Published Feb. 10, 1953. Class 6.

574,076. Medicament for Coughs, Containing a Narcotic, and Limited to Sale on Prescription Only. R. J. Moran Co., Boston, Mass.
Filed July 29, 1952, Serial No. 633,207. Published Jan. 27, 1953. Class 18.

574,077. Toy Construction Sets. Pilot Plastics, Inc., Paterson, N. J.
Filed July 29, 1952, Serial No. 633,213. Published Feb. 17, 1953. Class 22.

574,078. Flexible and Inflexible Abrasives. Behr-Manning Corporation, Troy, N. Y.
Filed July 31, 1952, Serial No. 633,294. Published Feb. 17, 1953. Class 4.

574,079. Piece Goods of Cotton, Wool, Silk, Linen, and Synthetic Fibers and Combinations Thereof. Selinger Textile Corporation, New York, N. Y.
Filed Aug. 1, 1952, Serial No. 633,380. Published Feb. 10, 1953. Class 42.

574,080. Bowling Pin. McLaughlin-Millard, Inc., Dolgeville, N. Y.
Filed Aug. 4, 1952, Serial No. 633,460. Published Feb. 17, 1953. Class 22.

574,081. Bowling Pin. McLaughlin-Millard, Inc., Dolgeville, N. Y.
Filed Aug. 4, 1952, Serial No. 633,461. Published Feb. 17, 1953. Class 22.

574,082. Draperies and Window Curtains and Curtain Fabrics in the Piece Made of Cotton, Rayon, Silk, Linen, and Mixtures Thereof. House Beautiful Curtains, Inc., New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,771. Published Feb. 10, 1953. Class 42.

574,083. Textile Ribbons Made of Rayon, Silk, Cotton, Synthetic, and Like Fibers. Martin Fabrics Corporation, New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,780. Published Feb. 10, 1953. Class 42.

574,084. Synthetic Resins and Catalysts. Johnson & Johnson, New Brunswick, N. J.
Filed Aug. 15, 1952, Serial No. 633,984. Published Feb. 10, 1953. Class 6.

574,085. Table Syrup. Jack A. Powers, Westlake, La.
Filed Sept. 5, 1952, Serial No. 634,910. Published Feb. 10, 1953. Class 46.

574,086. Fabrics in the Piece Composed of Cotton, Wool, Silk, and Synthetic Fibers. Crompton Company, Crompton, R. I.
Filed Sept. 11, 1952, Serial No. 635,122. Published Feb. 10, 1953. Class 42.

574,087. Preparation for Repelling Insects—Namely, Mosquitoes, Small Biting Flies, and Chiggers. The Joyner Corporation, Warsaw, Ind.
Filed Sept. 22, 1952, Serial No. 635,598. Published Feb. 10, 1953. Class 6.

574,088. Dyes and Dyestuffs. Geigy Company, Inc., New York, N. Y.
Filed Sept. 24, 1952, Serial No. 635,694. Published Feb. 10, 1953. Class 6.

574,089. Chemicals Adapted for the Mothproofing of Fibers and Fabrics. Geigy Company, Inc., New York, N. Y.
Filed Sept. 24, 1952, Serial No. 635,695. Published Feb. 10, 1953. Class 6.

574,090. Paint Applicator of the Roller Type. The Patterson-Sargent Company, Cleveland, Ohio.
Filed Sept. 24, 1952, Serial No. 635,711. Published Feb. 10, 1953. Class 29.

574,091. Quaternary Ammonium Compounds Useful as the Active Ingredient of Deodorant Preparations for Space, Industrial, Commercial, Institutional, Household, and Personal Use, and the Like. Atlas Powder Company, Wilmington, Del.
Filed Sept. 26, 1952, Serial No. 635,807. Published Feb. 10, 1953. Class 6.

574,092. Woolen Piece Goods. British Samek Limited, London, England.
Filed Sept. 29, 1952, Serial No. 635,900. Published Feb. 10, 1953. Class 42.

574,093. Paint Applying Devices—Namely, Brushes and Roller Applicators. The Wooster Brush Company, Wooster, Ohio.
Filed Oct. 2, 1952, Serial No. 636,104. Published Feb. 10, 1953. Class 29.

574,094. Herbicides. United States Rubber Company, New York, N. Y.
Filed Oct. 20, 1952, Serial No. 636,906. Published Feb. 10, 1953. Class 6.

574,095. Rodenticides. Lucian L. Spellings, doing business as Tom-Cat Products Co., Jonesboro, Ark.
Filed Oct. 22, 1952, Serial No. 637,009. Published Feb. 10, 1953. Class 6.

574,096. Chemical Composition for Use as a Reducing Agent for Vat Dyes in the Printing and Dyeing of Textile Materials. Sun Chemical Corporation, Long Island City, N. Y.
Filed Oct. 22, 1952, Serial No. 637,010. Published Feb. 10, 1953. Class 6.

574,097. Chemicals for Photographic Developer. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Oct. 24, 1952, Serial No. 637,118. Published Feb. 10, 1953. Class 6.

574,098. Anti-Heparin Compound. Abbott Laboratories, North Chicago, Ill.
Filed Nov. 13, 1952, Serial No. 637,977. Published Jan. 27, 1953. Class 18.

574,099. Chemicals for the Flotation and Precipitation of Paint From Water Particularly for Use in Water Used in Paint Spray Booths. The Acorn Chemical Company, Toledo, Ohio.
Filed Oct. 30, 1952, Serial No. 638,034. Published Feb. 10, 1953. Class 6.

574,100. Vaginal Suppositories Containing Bacitracin. Commercial Solvents Corporation, New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,065. Published Jan. 27, 1953. Class 18.

Service Marks

574,101. Real Estate Monetary Appraisal Service. Earl F. Spradling, St. Louis, Mo.
Filed Oct. 24, 1951, Serial No. 620,441. Published Feb. 10, 1953. Class 102.

574,102. Economic and Market Research or Surveys in Connection With Industrial Problems or Proposed Industrial Plants or Processes in the Field of the Manufacture, Fabrication, or Treatment of Metals, Etc. Koppers Company, Inc., Pittsburgh, Pa.
Filed Jan. 17, 1952, Serial No. 623,715. Published Feb. 10, 1953. Class 101.

574,103. Marketing Research—Namely, Marketing Research With Reference to Sales of Consumer Goods. A. C. Nielsen Company, Chicago, Ill.
Filed July 24, 1952, Serial No. 632,994. Published Feb. 10, 1953. Class 101.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

574,104. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Narrow Fabric Company, West Reading, Pa. Original filed, act of 1905, May 31, 1947; amended to application under act of 1946, Principal Register, July 2, 1952; amended to Supplemental Register, Feb. 20, 1953, Serial No. 523,324.

La-ce-edge

Applicant claims ownership of Registration No. 519,358.
For Lace Piece Goods.
Claims use since May 23, 1947.

574,105. (Class 39. Clothing.) Borsalino Giuseppe e Fratello S. p. A., Alessandria, Italy. Original filed, act of 1946, Principal Register, Mar. 3, 1949; amended to application, Supplemental Register, July 26, 1952, Serial No. 574,816.



Applicant claims ownership of United States Registration No. 219,605 and Italian Registration No. 73,060, dated Feb. 27, 1947.
For Hats and Articles in the Nature of Hats.

574,106. (Class 38. Prints and Publications.) American Publications, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, May 20, 1949; amended to application, Supplemental Register, Oct. 31, 1952, Serial No. 579,161.

MARKETING

For Magazine Directed to the Furniture Trade and Published Semi-Annually.
Claims use since Mar. 25, 1949.

574,107. (Class 46. Foods and Ingredients of Foods.) Morton Manufacturing Corp., doing business under the name and style of Blair of Virginia, Lynchburg, Va. Original filed, act of 1946, Principal Register, Dec. 1, 1949; amended to application, Supplemental Register, Oct. 13, 1952, Serial No. 588,651.

Blair

Applicant claims ownership of Registrations Nos. 277,624 and 510,171.
For Food Flavoring Extracts and Fruit Flavorings Used for Food Purposes; Pie Filling Mix Comprised Principally of Cornstarch, Sugar, and Egg Yolk, Table Syrup Flavoring, and Spices.
Claims use since Oct. 1, 1948.

574,108. (Class 32. Furniture and Upholstery.) Kent-Coffey Manufacturing Company, Lenoir, N. C. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, Mar. 29, 1952, Serial No. 590,372.

The Mainwaring

For Furniture—Namely, the Following Chippendale Wooden Bedroom Furniture, To-Wit, Dressers, Vanities, Chests, Beds, Chestrobes, Nightstands, Chairs, Benches, Wardrobes, Chifferobes, Dresser Robes, Night Tables, Bedside Tables, Bedroom Desks, Chiffoniers, and Commodes.
Claims use since Nov. 25, 1949.

574,109. (Class 38. Prints and Publications.) The Dealers Digest Publishing Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 5, 1950; amended to application, Supplemental Register, Feb. 8, 1951, Serial No. 595,250.

INVESTOR

For Periodical.
Claims use since on or about Jan. 27, 1950.

574,110. (Class 18. Smokers' Articles, Not Including Tobacco Products.) Zippo Manufacturing Company, Bradford, Pa. Original filed, act of 1946, Principal Register, May 24, 1950; amended to application, Supplemental Register, Mar. 5, 1953, Serial No. 598,055.

Lady Bradford

The name "Lady Bradford" is fanciful. The word "Bradford" is disclaimed.
For Pyrophoric Table Lighters for Lighting Cigars and Cigarettes.
Claims use since Feb. 1, 1950.

574,111. (Class 2. Receptacles.) Klik Promotions, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 31, 1950; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 598,373.

Klik

For Pill Boxes, Empty Perfume Vials for Handbags, and Empty Combination Perfume and Lipstick Containers for Handbags, Such Articles Being Made of Base Metal, Glass, Plastic, and/or Combinations of These Materials.
Claims use since August 1948.

574,112. (Class 38. Prints and Publications.) California Test Bureau, Los Angeles, Calif. Original filed, act of 1946, Principal Register, June 24, 1950; amended to application, Supplemental Register, July 11, 1952, Serial No. 599,691.

SCOREZE

For Printed Personality and Achievement Tests Including Reading Tests.
Claims use since Feb. 25, 1950.

574,113. (Class 39. Clothing.) Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 26, 1950; amended to application, Supplemental Register, Jan. 22, 1951, Serial No. 599,770.

RIVIERA

For Men's, Women's, and Children's Hats and Hat Bodies of Felt and Fur.
Claims use since Mar. 15, 1949.

574,114. (Class 38. Prints and Publications.) Ziff-Davis Publishing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 20, 1950; amended to application, Supplemental Register, Nov. 7, 1952, Serial No. 606,689.

PHOTOGRAPHY Annual

Applicant claims ownership of Registrations Nos. 386,905 and 511,955.
For Magazine.
Claims use since Oct. 20, 1950.

574,115. (Class 32. Furniture and Upholstery.) Grand American Furniture Corp., Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 2, 1951; amended to application, Supplemental Register, Feb. 18, 1953, Serial No. 609,549.

MAR-PRUF

For Occasional Tables, Lamp Tables, and Cocktail Tables.
Claims use since on or about June 19, 1950.

574,116. (Class 38. Prints and Publications.) National Hotel Publishing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 16, 1951; amended to application, Supplemental Register, Dec. 17, 1952, Serial No. 610,182.

HOTEL BLUE BOOK

For Hotel Directory or Publication Issued Annually.
Claims use since in or about the month of June 1949.

574,117. (Class 38. Prints and Publications.) Trend Incorporated, by change of name from Motor Trend Publications, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 8, 1951; amended to application, Supplemental Register, Apr. 1, 1952, Serial No. 611,037.

CYCLE

For Magazines.
Claims use since Mar. 20, 1950.

574,118. (Class 26. Measuring and Scientific Appliances.) The Pettersen Manufacturing Company, Inc., Santa Barbara, Calif. Original filed, act of 1946, Principal Register, May 18, 1951; amended to application, Supplemental Register, Sept. 22, 1952, Serial No. 614,061.

Roll-a-Liner

For Straight Edge and Ruler.
Claims use since Aug. 28, 1950.

574,119. (Class 26. Measuring and Scientific Appliances.) Brumberger Co. Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Aug. 21, 1951; amended to application, Supplemental Register, Sept. 19, 1952, Serial No. 617,906.

BRUMBERGER
B

For Stereoscopic Viewers and Accessories—Namely, Reducing Adapters, Slides, Film Strips and Slide Files, Stereoscopic Stereo and Slide Mounts and Slide Previewers; Reels and Cans; Dark Room Safelights, and Contact Printers.
Claims use since January 1928.

574,120. (Class 38. Prints and Publications.) The Meyercord Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 4, 1951; amended to application, Supplemental Register, Feb. 19, 1953, Serial No. 619,579.

KWIK-STRIP

For Decalcomanias.
Claims use since Sept. 20, 1951.

574,121. (Class 26. Measuring and Scientific Appliances.) Bernard A. Mergolis, doing business as Mergolis Enterprises, Kansas City, Mo. Original filed, act of 1946, Principal Register, Oct. 8, 1951; amended to application, Supplemental Register, Aug. 2, 1952, Serial No. 619,705.

"SAFE-T-SPOON"

The word "Spoon" is disclaimed apart from the mark shown in the drawing.
For Combination Tongue Depressor and Measuring Spoon.
Claims use since July 16, 1951.

574,122. (Class 26. Measuring and Scientific Appliances.) Liberty Optical Manufacturing Co., Inc., Newark, N. J. Original filed, act of 1946, Principal Register, Nov. 6, 1951; amended to application, Supplemental Register, Aug. 25, 1952, Serial No. 620,910.

Nu-Mode

For Ophthalmic Mountings.
Claims use since Aug. 21, 1951.

574,123. (Class 15. Oils and Greases.) Anthony N. Nicosia, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 23, 1951; amended to application, Supplemental Register, Nov. 13, 1952, Serial No. 621,572.

TRUEBLU

No claim is made to the exclusive use of the word "Blu" apart from the mark shown in the drawing.
For Fuel Oil for Heating Purposes.
Claims use since Nov. 1, 1951.

574,124. (Class 26. Measuring and Scientific Appliances.) Donald A. Slattery, Hammond, Ind. Original filed, act of 1946, Principal Register, Dec. 7, 1951; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 622,230.

"SCRIP-PRICER"

No claim is made to the word "Pricer" apart from the mark as shown on the drawing.
For Rotative Disk Calculator for Determining the Retail Sale Price of Articles of Manufacture.
Claims use since Nov. 2, 1951.

574,125. (Class 39. Clothing.) Miller Manufacturing Co., Inc., Joplin, Mo., and New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 19, 1951; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 622,669.

WORK-EZE

For Men's and Boys' Work Shirts and Work Trousers.
Claims use since July 5, 1951.

574,126. (Class 39. Clothing.) Silver Knit Hosiery Mills, Inc., High Point, N. C. Original filed, act of 1946, Principal Register, Jan. 8, 1952; amended to application, Supplemental Register, Dec. 19, 1952, Serial No. 623,320.

Val-U-Plus

For Men's Hosiery.
Claims use since Dec. 5, 1951.

574,127. (Class 18. Medicines and Pharmaceutical Preparations.) Francis E. Nolan, doing business as Nola Products, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 9, 1952; amended to application, Supplemental Register, Dec. 31, 1952, Serial No. 623,361.

FUT-SOAK

For Antiseptic Foot Wash Powder To Be Dissolved in Water for Soaking Tired, Burning, and Aching Feet.
Claims use since Nov. 1, 1950.

574,128. (Class 2. Receptacles.) Continental Can Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 10, 1952; amended to application, Supplemental Register, Dec. 4, 1952, Serial No. 623,402.

cut-a-pak

For Paper Cartons for Ice Cream in Bulk.
Claims use since Nov. 13, 1951.

574,129. (Class 26. Measuring and Scientific Appliances.) Raymond W. Russ, Fort Worth, Tex. Original filed, act of 1946, Principal Register, Jan. 26, 1952; amended to application, Supplemental Register, Jan. 29, 1953, Serial No. 624,159.

EDGLITE

For Drafting Triangles.
Claims use since Aug. 4, 1949.

574,130. (Class 38. Prints and Publications.) Nicolae Radescu, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 11, 1952; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 624,796.

ROMÂNUL

The literal translation of the mark is "The Romanian."
For Monthly Newspaper, Published in the Romanian Language.
Claims use since on or about Mar. 15, 1951.

574,131. (Class 38. Prints and Publications.) Television Guide, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 19, 1952; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 625,222.

Reader Reviews

For Column in a Periodical.
Claims use since on or about Dec. 19, 1951.

574,132. (Class 26. Measuring and Scientific Appliances.) Berger Scientific Supplies, Inc., New York, N. Y. Filed Feb. 27, 1952, Serial No. 625,230.

BERGER

For Materials and Equipment for Engineers, Architects, Surveyors, and Draftsmen—Namely, Drawing Instruments, Namely, Compasses, Dividers, Extension Bars, Lead Holders, Ruling Pens, Bow Pens, Drop Bow Pens, Beam Compasses, Dotting Instruments, Proportional Dividers, and Combination Compasses, Sold Individually and in Sets, Planimeters, Slide Rules, Scales, T-Squares, Triangles, Protractors, French Curves, Pantographs.
Claims use since January 1930.

574,133. (Class 45. Soft Drinks and Carbonated Waters.) Colfax Mineral Springs Company, Inc., Colfax, Iowa. Filed Feb. 29, 1952, Serial No. 625,716.

Colfax SUGAR-FRE'

Applicant claims ownership of Registration No. 406,167.
For Maltless Soft Drinks and Carbonated Waters.
Claims use since Jan. 3, 1950.

574,134. (Class 26. Measuring and Scientific Appliances.) The Aetna Casualty and Surety Company, Hartford, Conn. Original filed, act of 1946, Principal Register, Mar. 5, 1952; amended to application, Supplemental Register, Feb. 20, 1953, Serial No. 625,948.

DRIVOTRAINER

For Apparatus (1) To Train a Student Driver in the Use of the Controls of an Automobile (Including Brakes, Clutch, Steering, Directional Signals, Speed, and Horn) by Response to Oral Instructions, or to Normal and Emergency Driving Conditions Portrayed on a Screen by Slides or Motion Pictures, and (2) To Test and Score a Driver's Proficiency in the Use of Such Automobile Controls.
Claims use since Feb. 15, 1952.

574,135. (Class 46. Foods and Ingredients of Foods.) Richman Ice Cream Co., Sharptown and Woodstown, N. J. Original filed, act of 1946, Principal Register, Mar. 11, 1952; amended to application, Supplemental Register, Nov. 28, 1952, Serial No. 626,265.

RICHMAN'S Country Fresh ICE CREAM

For Ice Cream.
Claims use since Jan. 15, 1937.

574,136. (Class 38. Prints and Publications.) Fitzgerald-Nelson Company, Duluth, Minn. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 626,373.

CHROMA-GLO

For Printed Advertising Posters and Signs and Identification Labels.
Claims use since Feb. 12, 1952.

574,137. (Class 22. Games, Toys, and Sporting Goods.) Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill. Filed Mar. 19, 1952, Serial No. 626,672.

Kiddie-Kit

For Children's Painting Kits Including Canvases Having Various Designs Printed Thereon Ready for Painting, Capsules of Oil Paints in Various Colors, Brushes, and Frames for Said Canvases.
Claims use since Jan. 10, 1951.

574,138. (Class 38. Prints and Publications.) American International Publications, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 3, 1952; amended to application, Supplemental Register, Oct. 9, 1952, Serial No. 627,480.

FAR EAST TRADER

For Weekly Trade Publication.
Claims use since Mar. 27, 1946.

574,139. (Class 39. Clothing.) Gold-Craft Mfg. Co., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 23, 1952; amended to application, Supplemental Register, Jan. 8, 1953, Serial No. 628,531.

Adjust-O-Length

For Ladies' and Misses' Pajamas.
Claims use since Jan. 2, 1952.

574,140. (Class 38. Prints and Publications.) Religion and Health, Durham, N. C. Original filed, act of 1946, Principal Register, Apr. 23, 1952; amended to application, Supplemental Register, Feb. 19, 1953, Serial No. 628,602.

Religion & Health

For Periodical Publication Devoted to the Dissemination of Information on Religion and Health.
Claims use since Feb. 2, 1952.

574,141. (Class 46. Foods and Ingredients of Foods.) Antonino Buffa, doing business under the name of Castelcarini Packing Company, Brooklyn, N. Y. Filed May 22, 1952, Serial No. 630,056.

CASTELCARINI



The English translation of the word "Castelcarini" is "Carini Castle."
For Olive Oils Used for Cooking Purpose.
Claims use since November 1948.

574,142. (Class 16. Protective and Decorative Coatings.) American-Marietta Company, Chicago, Ill. Original filed, act of 1946, Principal Register, June 21, 1952; amended to application, Supplemental Register, Feb. 20, 1953, Serial No. 631,526.

Shield Flor

For Ready Mixed Paints and Enamels for Interior and Exterior Use.
Claims use since Jan. 15, 1952.

574,143. (Class 43. Thread and Yarn.) Gütermann & Co., K. G., Zurich, Switzerland. Filed July 12, 1952, Serial No. 632,476.

Gütermann

Applicant claims ownership of Swiss Registration No. 117,433, dated Sept. 20, 1946.
For Sewing Thread of Schappe and Real Silk.

574,144. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) California Sportwear Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 25, 1952; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 633,033.

Woolite

For Woolen Piece Goods.
Claims use since Feb. 15, 1952.

TRADE-MARK REGISTRATIONS RENEWED

40,060. "LE BÉLIER" ETC. AND DESIGN. Registered Apr. 7, 1903. Société des Caves et des Producteurs réunis de Roquefort, (Aveyron), Roquefort, France. Re-renewed Apr. 7, 1953, to Roquefort Association, Inc., New York, N. Y., a corporation of New York. Cheese. Class 46.

40,093. ALEXIS. Registered Apr. 14, 1903. Mittineague Paper Co. Re-renewed Apr. 14, 1953, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Fine Writing-Paper. Class 37.

40,094. ALEXANDRA. Registered Apr. 14, 1903. Mittinengue Paper Co. Re-renewed Apr. 14, 1953, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Fine Writing-Paper. Class 37.

40,159. "SOCIÉTÉ" ETC. AND DRAWING. Registered Apr. 21, 1903. Societe Anonyme des Caves & Producteurs reunis de Roquefort, Roquefort, France, a corporation organized under the laws of the Republic of France. Re-renewed Apr. 21, 1953. Cheese. Class 46.

40,692. "EAGLE" AND DESIGN. Registered June 30, 1903. Borden's Condensed Milk Co. Re-renewed June 30, 1953, to The Borden Company, New York, N. Y., a corporation of New Jersey. Milk, Malted Milk, and Food-Product Milk. Class 46.

90,152. "ANGOSTURA BITTERS" AND REPRESENTATION OF LABEL. Registered Feb. 11, 1913. Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad, British West Indies. Re-renewed Feb. 11, 1953, to Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad, a company incorporated under the laws of Trinidad. Tonic Bitters. Class 18.

90,330. REPRESENTATION OF OWL AND DESIGN. Registered Feb. 18, 1913. C. J. Hewlett & Son Limited, London, England, a corporation organized under the laws of Great Britain and Northern Ireland. Re-renewed Feb. 18, 1953. Remedies for Diseases of the Bladder and Stomach, Especially Acute and Chronic Inflammation of the Mucous Membrane of Those Organs, Etc. Class 18.

90,363. COURAGE. Registered Feb. 18, 1913. Geo. T. Myers & Co., Seattle, Wash., and Chatham, Territory of Alaska. Re-renewed Feb. 18, 1953, to New England Fish Company, Seattle, Wash., a corporation of Maine. Canned Salmon. Class 46.

90,982. FRY. Registered Apr. 8, 1913. J. S. Fry and Sons, Limited. Re-renewed Apr. 8, 1953, to J. S. Fry & Sons Limited, Bristol, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Chocolate and Cocoa. Class 46.

91,534. A LINE A DAY. Registered May 6, 1913. Samuel Ward Company. Re-renewed May 6, 1953, to Samuel Ward Manufacturing Company, Boston, Mass., a corporation of Massachusetts. Diaries and Calendars. Class 37.

91,875. "THE HUMP" AND DESIGN. Registered June 3, 1913. Hump Hair Pin Company, Augusta, Maine, and Chicago, Ill. Re-renewed June 3, 1953, to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware. Hair-Pins. Class 40.

92,617. O. AMES. Registered July 22, 1913. Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass. Re-renewed July 22, 1953, to O. Ames Co., Parkersburg, W. Va., a corporation of Delaware. Shovels, Spades, and Scoops. Class 23.

92,805. 'SALADA'. Registered July 29, 1913. P. C. Larkin, Toronto, Ontario, Canada, and New York, N. Y. Re-renewed July 29, 1953, to Salada Tea Company, Inc., Boston, Mass., a corporation of Maine. Cocoa. Class 46.

293,004. COLUMBIA. Registered July 19, 1932. Columbia Phonograph Company, Inc. Renewed July 19, 1952, to Columbia Records Inc., Bridgeport, Conn., a corporation of Delaware. Radio Receiving, Detecting, and Transmitting Sets and Parts Thereof. Class 21.

298,962. BISCUITS PERNOT. Registered Nov. 15, 1932. Manufacture Dijonnaise des Biscuits Pernot, Societe Anonyme. Renewed Nov. 15, 1952, to Claudon Richard & Cie, Dijon, France, a company of France. Cakes, Biscuits, Crackers, Candies, and Chocolates. Class 46.

299,047. "FAMOUS MAID" AND DESIGN. Registered Nov. 22, 1932. Harry Conston, Camden, N. J. Renewed Nov. 22, 1952, to Harry Conston, Philadelphia, Pa., a partnership. Ladies' Hosiery. Class 39.

299,211. ORJENE PURE. Registered Nov. 22, 1932. Nellie Silverstein, doing business as Vi-Vu Products. Renewed Nov. 22, 1952, to Joseph Silverstein, New York, N. Y. Liquid Hair and Scalp Cleanser and Shampoo. Class 52.

300,553. "VIAVI TABLETTES" AND DESIGN. Registered Jan. 24, 1933. The Viavi Company, San Francisco, Calif., a corporation of California. Renewed Jan. 24, 1953. Digestive Tablets. Class 18.

300,664. HADLEYITE. Registered Jan. 31, 1933. The Hadley Company, Inc., Providence, R. I., a corporation of Rhode Island. Renewed Jan. 31, 1953. Bracelets. Class 28.

300,668. ALTA-VIS. Registered Jan. 31, 1933. Alta-Vis Oil Company, Portland, Oreg. Renewed Jan. 31, 1953, to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware. Lubricating Oils. Class 15.

300,683. EATKRISP. Registered Jan. 31, 1933. Orrin O. Eaton. Renewed Jan. 31, 1953, to O. O. Eaton, Inc., Watsonville, Calif., a corporation of California. Fresh Lettuce. Class 46.

300,788. SPONGEX. Registered Feb. 7, 1933. The Sponge Rubber Products Co., Derby, Conn. Renewed Feb. 7, 1953, to The Sponge Rubber Products Company, Shelton, Conn., a corporation of Connecticut. Sponge Rubber, Medical Sponge Rubber, and Rubber Sponges. Class 1.

300,879. FLEXO. Registered Feb. 14, 1933. Germanow-Simon Machine Co. Renewed Feb. 14, 1953, to Germanow-Simon Machine Co., Inc., Rochester, N. Y., a corporation of New York. Watch Crystals—Namely, Unbreakable Watch Crystals. Class 33.

300,922. PENNVERNON. Registered Feb. 14, 1933. Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed Feb. 14, 1953. Flat Glass. Class 33.

301,333. RYKING. Registered Feb. 28, 1933. Aktiebolaget Skanska Spisbrodsfabriken, Kristianstad, Sweden. Renewed Feb. 28, 1953, to Ab Wasa Spisbrödsfabrik, Filipstad, Sweden, a corporation organized under the laws of Sweden. Hard Bread, Especially Hard Rye Bread in Flat Cakes. Class 46.

301,396. DELITEX. Registered Feb. 28, 1933. Pillsbury Flour Mills Company. Renewed Feb. 28, 1953, to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Wheat Flour. Class 46.

301,605. "LA FOUGERAIE" ETC. Registered Mar. 7, 1933. Coty, Inc., Wilmington, Del., and New York, N. Y. Renewed Mar. 7, 1953, to Coty, Inc., New York, N. Y., a corporation of Delaware. Perfumes and Face Powder. Class 51.

301,623. "APPLE JUG BRAND" AND REPRESENTATION OF CONTAINER. Registered Mar. 7, 1933. Laird & Company, Incorporated, Eatontown, N. J. Renewed Mar. 7, 1953, to Laird & Company, Incorporated, Scobeyville, N. J., a corporation of New Jersey. Cider. Class 45.

301,946. "VIAVI" AND DESIGN. Registered Mar. 21, 1933. The Viavi Company, San Francisco, Calif., a corporation of California. Renewed Mar. 21, 1953. Medicines—Namely, Liquid Preparation for Inflammatory Conditions of the Mucous Membranes, Rectal Suppositories, Etc. Class 18.

302,033. NI-TENSYL. Registered Mar. 21, 1933. The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware. Renewed Mar. 21, 1953. Nickel-Containing Iron Castings. Class 14.

302,038. TWENTIETH CENTURY LIMITED. Registered Mar. 21, 1933. Bulova Watch Company, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 21, 1953. Bracelet Watches and Their Attached Bracelets. Class 27.

302,210. COMMUTER. Registered Apr. 4, 1933. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Apr. 4, 1953. Women's Dresses, Suits, and Coats. Class 39.

302,284. "HUNTLY BLEND" ETC. AND DESIGN. Registered Apr. 11, 1933. Slater, Rodger & Company, Limited, Glasgow, Scotland, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Apr. 11, 1953. Whisky. Class 49.

302,389. THISTLE DESIGN. Registered Apr. 18, 1933. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Renewed Apr. 18, 1953. Writing and Printing Paper. Class 37.

302,456. TUBEROSE D'ELIZABETH. Registered Apr. 18, 1933. Elizabeth Arden, Inc. Renewed Apr. 18, 1953, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Perfumes and Perfumery. Class 51.

302,550. THISTLEMARK. Registered Apr. 25, 1933. Strathmore Paper Company, Mittineague, Mass. Renewed Apr. 25, 1953, to Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Writing and Printing Paper. Class 37.

302,591. "SPEED WET" AND DESIGN. Registered Apr. 25, 1933. Behr-Manning Corporation, Troy and Watervliet, N. Y. Renewed Apr. 25, 1953, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts. Flexible Abrasive Paper and Cloth. Class 4.

302,712. "RCA" ETC. AND DESIGN. Registered Apr. 25, 1933. RCA Victor Company, Inc., Camden, N. J. Renewed Apr. 25, 1953, to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Photographic and Electro-Physical Sound Recording Apparatus and Equipment, Etc. Class 26.

302,739. ENDURO. Registered Apr. 25, 1933. A. H. Genting Company. Renewed Apr. 25, 1953, to The Genting Company, Philadelphia, Pa., a corporation of Pennsylvania. Men's, Women's, and Children's Boots and Shoes, Made of Leather, Fabric, Rubber or Any Combination of One or More of Said Materials. Class 39.

302,765. SURECALF. Registered Apr. 25, 1933. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Renewed Apr. 25, 1953. Stock Food. Class 46.

302,900. ELIZABETH. Registered May 2, 1933. Elizabeth Arden, Inc. Renewed May 2, 1953, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Perfumes and Perfumery, Cleansing Cream, Face and Hand Lotion, Face Powder, and Dentifrice. Class 51.

303,089. DRAMBUIE. Registered May 9, 1933. The Drambuie Liqueur Coy (1927) Limited. Renewed May 9, 1953, to The Drambuie Liqueur Co. Ltd., Edinburgh, Scotland, a United Kingdom corporation. Distilled Alcoholic Liqueur. Class 49.

303,177. "SUNSWEET" AND DESIGN. Registered May 16, 1933. California Prune and Apricot Growers Association, San Jose, Calif., a corporation of California. Renewed May 16, 1953. Dried Fruit. Class 46.

303,304. BAR-NONE. Registered May 23, 1933. Animal Foods Company, doing business as Bar-None Sales Company, San Jose, Calif. Renewed May 23, 1953, to N. C. Coan, San Jose, Calif., and Houston, Tex. Canned Food for Dogs and Cats and Other Carnivorous Animals. Class 46.

303,524. FAIRYSPUN. Registered May 30, 1933. Dumari Textile Co., Inc., New York, N. Y., a corporation of New York. Renewed May 30, 1953. Women's and Misses' Party Frocks, Dressing Gowns, Wrappers, Negligees, Kimonos, Waists, Scarfs. Class 39.

303,771. "CITY CLUB" AND DESIGN. Registered June 6, 1933. International Shoe Company, St. Louis, Mo. a corporation of Delaware. Renewed June 6, 1953. Boots and Shoes of Leather, Fabric and/or Combinations Thereof. Class 39.

304,089. TRANSOLITE. Registered June 20, 1933. Riegel Paper Corporation, Riegelsville, N. J. Renewed June 20, 1953, to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey. Wrapping Papers—Namely, Waxed Papers, Plain and Waxed Glassine Papers. Transparent Wrapping Paper, Etc. Class 37.

304,248. HOOT-NANNY. Registered June 27, 1933. Howard B. Jones, Chicago, Ill. Renewed June 27, 1953, to Northern Signal Company, Inc., Saukville, Wis., a corporation of Wisconsin. Toy Drawing Outfits. Class 22.

304,447. "NINE-LIFE" AND DESIGN LINED FOR BLUE AND RED. Registered July 11, 1933. The Cleveland Cleaner and Paste Co., Cleveland, Ohio, a corporation of Ohio. Renewed July 11, 1953. Brush Cleaner. Class 32.

304,450. "ELECTRIC" AND DESIGN. Registered July 11, 1933. The Cleveland Cleaner and Paste Co., Cleveland, Ohio, a corporation of Ohio. Renewed July 11, 1953. Compound for Cleaning Wall Paper, Frescos, Calcimine, Window Shades, and Tapestries. Class 32.

304,453. "APEX" LINED FOR RED, AND REPRESENTATION OF DOG. Registered July 11, 1933. The Cleveland Cleaner and Paste Co., Cleveland, Ohio, a corporation of Ohio. Renewed July 11, 1953. Painters' Wall Size. Class 16.

304,508. "SUTTON" AND DESIGN. Registered July 11, 1933. Best & Co. Inc., New York, N. Y., a corporation of New York. Renewed July 11, 1953. Apparel for Women and Children—Namely, Hosiery, Hats, Shoes Made of Leather, Rubber, Fabric, and/or Combinations Thereof. Class 39.

304,519. "LU-MIN-ALL" AND DESIGN. Registered July 11, 1933. National Chemical & Manufacturing Company, Chicago, Ill., a corporation of Illinois. Renewed July 11, 1953. Paste Paints. Class 16.

304,529. KOLDAIR. Registered July 11, 1933. Knapp-Monarch Company, Belleville, Ill. Renewed July 11, 1953, to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware. Electric Fans. Class 21.

304,549. COLLEGEBRED. Registered July 11, 1933. E. P. Reed & Company, Rochester, N. Y., a corporation of New York. Renewed July 11, 1953. Shoes Made of Leather, Fabric or Rubber, or Combinations Thereof. Class 39.

304,570. JUNIS. Registered July 11, 1933. The Pepsodent Co., Chicago, Ill. Renewed July 11, 1953, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Facial Cream. Class 51.

304,643. WHIZ. Registered July 11, 1933. The R. M. Hollingshead Co. Renewed July 11, 1953, to R. M. Hollingshead Corporation, Camden, N. J., a corporation of New Jersey. Carbon Decomposer, Anti-Freeze Compounds, Chemicals and Chemical Preparations—Namely, Insecticides. Class 6.

304,659. SUN-KIST. Registered July 11, 1933. California Packing Corporation, San Francisco, Calif. Renewed July 11, 1953, to Sunkist Growers, Inc., Los Angeles, Calif., a corporation of California. Canned Fruit, Dried Fruit, Raisins, Canned and Dried Prunes, Canned Vegetables, Etc. Class 46.

304,700. "GLASS KEG" ETC. AND REPRESENTATION OF CONTAINER. Registered July 18, 1933. Laird & Co., Inc., Estontown, N. J. Renewed July 18, 1953, to Laird & Co., Inc., Scobeyville, N. J., a corporation of New Jersey. Cider. Class 45.

304,817. REPRESENTATION OF SOCK HAVING HEEL TIP LINED FOR COLOR. Registered July 18, 1933. Nelson Knitting Company, Rockford, Ill., a corporation of Illinois. Renewed July 18, 1953. Hosiery. Class 39.

304,818. "MEXICANA" AND DESIGN. Registered July 18, 1933. Canoga Citrus Association, Canoga Park, Calif., a corporation of California. Renewed July 18, 1953. Fresh Citrus Fruit. Class 46.

304,819. "NU-PRO" AND DIAMOND-SHAPED DESIGN. Registered July 18, 1933. The Pepsodent Co., Chicago, Ill. Renewed July 18, 1953, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Food Drink Consisting of a Flavored Powder Containing Contents and Extracts of Soybeans. Class 46.

304,873. "BLUE DUCKY" AND REPRESENTATION OF DUCK LINED FOR BLUE. Registered July 18, 1933. Riegel Textile Corporation. Renewed July 18, 1953, to Riegel Textile Corporation, New York, N. Y., a corporation of Delaware. Cotton Piece Goods and Diapers. Class 42.

304,880. HOLLAND HOUSE. Registered July 18, 1933. W. Sheinker & Sons, Inc., New York, N. Y., a corporation of New York. Renewed July 18, 1953. Wines With Not More Than the Legal Alcoholic Content. Class 47.

304,985. MARKRITE. Registered July 25, 1933. Markwell Stamp Co. Renewed July 25, 1953, to Markrite Stamp Co., Inc., Greenfield, Mass., a corporation of Massachusetts. Steel Stamps and Metal Marking Devices. Class 23.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

179,115. "BLUE INN" AND DESIGN. Registered Feb. 5, 1924. John Friedrich, Philadelphia, Pa. Ginger Ale, Sarsaparilla, and Root Beer. Class 45. Amended as follows. In the statement, column 1, lines 9 and 10, "Beverages, nonalcoholic" is deleted and *Soft drinks and carbonated waters* is inserted in lieu thereof; column 2, lines 5 and 6, "by being blown in glass of bottles containing the goods and also" is deleted; same column, lines 8, 9, 10, and 11, "The trade-mark is also shown applied to the case in which said goods are packed and shipped by stencil in wood and on carton." is deleted; same column, the last paragraph is deleted; and the drawing is amended to appear as follows:



569,934. RHEUMATOL.WIRTH AND DESIGN. Registered Feb. 3, 1953. Barbara Wirth, doing business as The Rheumatol Company, Davenport, Iowa. Pharmaceutical Preparation—Namely, a Medicinal Liniment for External Use in Treating Human Ailments—Namely, the Diseases of Rheumatism, Neuralgia, Coughs, Etc. Class 18. Corrected as follows: In the certificate, lines 4 and 15, and in the heading to the printed statement, lines 2 and 3, name of first assignee, for "Roscol W. Warner" read *Roscoe W. Warner*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 296,856. Registered Aug. 23, 1932. (Classified in Class 52.) John Wiley Jones, Le Roy, N. Y. Republished by registrant, present address Caledonia, N. Y. See this number in Class 52 for goods and mark. Claims use since Apr. 6, 1932.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 88,240. Registered Sept. 10, 1912. The Canton Culvert Company, Canton, Ohio. Republished by Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey.

ACME

For Nestable Corrugated Culverts.
Claims use since Mar. 30, 1908.

Reg. No. 296,595. Registered Aug. 16, 1932. Gulf States Steel Company, Birmingham, Ala. Republished by Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey.

SUPER-X

For Nails.
Claims use since Apr. 5, 1932.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 66,749. Registered Dec. 24, 1907. Hartland Law, Herbert E. Law, San Francisco, Calif. Republished by The Viavi Company, San Francisco, Calif., a corporation of California.



For Tonic.
Claims use since 1895.

Reg. No. 296,856. Registered Aug. 23, 1932. (Classified in Class 52.) John Wiley Jones, Le Roy, N. Y. Republished by registrant, present address Caledonia, N. Y. See this number in Class 52 for goods and mark. Claims use since Apr. 6, 1932.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 403,047. Registered Aug. 31, 1943. Childhood Interests, Inc., Roselle, N. J., a corporation of New Jersey. Republished by registrant, present address Roselle Park, N. J.

Cradle Gym

For Exercisers for Babies.
Claims use since Mar. 4, 1942.

Reg. No. 426,732. Registered Jan. 7, 1947. Childhood Interests, Inc., Roselle, N. J., a corporation of New Jersey. Republished by registrant, present address Roselle Park, N. J.

THE CRADLE SPIN

For Exercisers for Babies.
Claims use since Apr. 10, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 299,299. Registered Nov. 29, 1932. United States Gauge Company, New York, N. Y. Republished by American Machine and Metals, Inc., Sellersville, Pa., a corporation of Delaware.

SUPERGAUGE

The word "Gauge" is disclaimed apart from the mark as shown.
For Gauges.
Claims use since Feb. 16, 1932.

CLASS 39

CLOTHING

Reg. No. 207,851. Registered Jan. 12, 1926. S. Goldberg & Co., Inc., West New York, N. J., a corporation of New Jersey. Republished by registrant, present address Hackensack, N. J.

"BESTYLE"

For Slippers for Men, Women, and Children, of Leather, Rubber, or Fabric and Combinations of These Materials.
Claims use since Dec. 1, 1924.

Reg. No. 249,574. Registered Nov. 20, 1928. National Department Stores Inc., New York, N. Y. Republished by Jack Kreiss, trading as Jack Kreiss Co., New York, N. Y.

Modecraft

For Ladies' Hosiery.
Claims use since May 7, 1928.

Reg. No. 278,623. Registered Dec. 23, 1930. Kirby, Block & Fischer, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

c·m·b

For Men's and Women's Suits, Neckties and Mufflers, Overcoats, Knitted and Textile Underwear and Hosiery; Men's Negligee and Dress Shirts and Polo Coats; Boys' and Children's Playsuits, Blouses and Knitted and Textile Underwear and Hosiery.
Claims use since February 1930.

Reg. No. 281,270. Registered Mar. 17, 1931. I. Magnin & Co., San Francisco, Calif., a corporation of Delaware. Republished by registrant.

I. MAGNIN & CO.
Ranleigh
YOUTHFUL FASHIONS

The expressions "Youthful Fashions" are disclaimed apart from the mark.
For Women's, Misses', Children's, and Infants' Gowns, Dresses, Skirts, Suits, Waists, Vests, Blouses; Lingerie, Consisting Specifically of Night Gowns, Step-Ins, Drawers, Chemises, and Brassières; Underwear, Corsets; Robes, Consisting Specifically of Lounging Robes, Tea Gowns, Pajamas, and Negligees; Bathrobes, Dressing Gowns, Kimonos, Negligees, Wraps, Coats, Capes, Raincoats, Sweaters, Scarfs, Fur Coats, Fur Neckpieces, Hats; Gloves of Leather, Fabric, and Combinations Thereof; Hosiery, Boots, Shoes, and Slippers, Each of the Latter Three Being of Leather, Fabric, and Combinations Thereof.
Claims use since Dec. 1, 1929.

Reg. No. 286,849. Registered Sept. 8, 1931. Kirby, Block & Fischer, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Shanmont

For Men's, Women's, and Children's Clothing—Namely, Knitted and Textile Underwear and Hosiery.
Claims use since Apr. 29, 1931.

Reg. No. 332,391. Registered Feb. 11, 1936. Moss Stores, Inc., San Francisco, Calif. Republished by I. Magnin & Co., San Francisco, Calif., a corporation of Delaware.

Chardon

For Ladies' Leather Gloves.
Claims use since Aug. 15, 1935.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 302,786. Registered Apr. 25, 1933. Cannon Mills, Inc., New York, N. Y. Republished by Cannon Mills Company, Kannapolis, N. C., a corporation of North Carolina.

CAVALIER

For Textile Sheets, Sheetings, and Pillow Cases.
Claims use since Sept. 29, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 441,581. Registered Dec. 14, 1948. Northwest Packing Co., Portland, Oreg., a corporation of Oregon. Republished by registrant.

OREGON TRAIL

The word "Oregon" is disclaimed apart from the mark as shown.
For Canned Vegetables.
Claims use since May 1, 1923.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 320,501. Registered Jan. 1, 1935. Schiaparelli S. A., Paris, France. Republished by Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York.

Schiaparelli

For Perfumes.
Claims use since July 2, 1934.

Reg. No. 344,590. Registered Mar. 30, 1937. Schiaparelli, Societe Anonyme, Paris, France. Republished by Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York.

SHOCKING

For Perfumes, Toilet Waters, Rouge, Lipstick, and Face Creams.
Claims use since Aug. 11, 1936.

Reg. No. 364,491. Registered Jan. 31, 1939. Société des Parfums Schiaparelli (Société Anonyme), Paris, France. Republished by Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York.

SLEEPING

For Perfumes, Toilet Waters, Rouge, Lipstick, Face Creams, Powders.
Claims use since July 21, 1938.

Reg. No. 375,461. Registered Feb. 20, 1940. Jacinto Martinez Pando, Mexico, D. F., Mexico. Republished by Les Parfums De Dana, Inc., New York, N. Y., a corporation of New York.

CANOE

For Perfumes, Face Powders, Creams for the Skin, Extracts From Perfumes (Concentrated Perfumes), Coloring Matters Used To Tint the Face, and Dentifrices, Exclusive of Any Preparation of Any Nature To Color, Remove, Stimulate or Otherwise To Treat Hair, Wherever Situated on the Body.
Claims use since January 1937.

Reg. No. 394,968. Registered May 5, 1942. Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

SNUFF

For Perfumes and Toilet Waters.
Claims use since Nov. 1, 1940.

Reg. No. 395,118. Registered May 12, 1942. Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Schiaparelli

For Perfumes, Lipsticks, Rouges, Face Creams, Toilet Waters, and Face and Talcum Powders.
Claims use since July 10, 1937.

Reg. No. 395,119. Registered May 12, 1942. Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Shocking

For Perfumes, Lipsticks, Rouges, Face Creams, Toilet Waters, and Face and Talcum Powders.
Claims use since July 10, 1937.

Reg. No. 397,463. Registered Sept. 8, 1942. Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Sleeping

For Perfumes, Toilet Waters, Rouges, Lipsticks, Face Creams and Face Powders, and Body Dusting Powders.
Claims use since Mar. 1, 1940.

Reg. No. 397,585. Registered Sept. 8, 1942. Parfums Schiaparelli, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Salut

For Perfumes, Toilet Waters, Rouges, Lipsticks, Face Cream, Face Powders, and Dusting Powders.
Claims use since Sept. 10, 1937.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 296,856. Registered Aug. 23, 1932. John Wiley Jones, Le Roy, N. Y. Republished by registrant, present address Caledonia, N. Y.

SUNNY SOL
Bottled Sunshine

For Chemical Preparation for Use in Bleaching or Whitening Clothes; for Removing Stains, Dirt, and Grease; and for Use as an Antiseptic, a Germ Killer, a Deodorizer, and Disinfectant.
Claims use since Apr. 6, 1932.

REISSUES

MAY 5, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

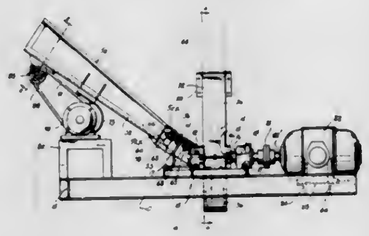
23,650

RECHIPPER WITH VIBRATING TROUGH

Einar I. Flateboe, Everett, Wash., assignor to Sumner Iron Works, Everett, Wash., a corporation of Washington

Original No. 2,582,537, dated January 15, 1952, Serial No. 121,799, October 17, 1949. Application for reissue November 3, 1952, Serial No. 318,539

10 Claims. (Cl. 241—92)



7. A rechipper for reject material comprising in combination, a wood chipper having chipper blades and an anvil of trough-like form disposed to receive reject material for its advancement therein to the chipper blades, a feed hopper in the form of a V-shaped trough aligned with the anvil, means for resiliently supporting the hopper intermediate its ends in a downwardly inclined position for the gravitational advancement of reject material, received therein at its higher end, to its lower end for direct discharge therefrom into the anvil, and means operable to impart vibratory movement to the hopper at its higher end for facilitating the gravitational advancement and the compacting of the contained body of the reject material as it is advanced to the anvil.

23,651

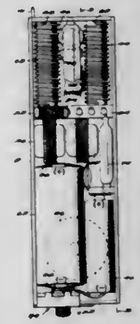
RADIO RECEIVER

Richard R. Florac, New York, N. Y., assignor, by mesne assignments, to Aircall, Inc., New York, N. Y., a corporation of Delaware

Original No. 2,619,589, dated November 25, 1952, Serial No. 176,747, July 29, 1950. Application for reissue December 29, 1952, Serial No. 328,539

8 Claims. (Cl. 250—20)

1. A radio receiver of a size to be grasped in the hand to be held against the ear of the operator for receiving radio frequency transmission, comprising an elongated casing, a detector circuit including an antenna coil disposed in the upper end of said casing, the upper end of said casing surrounding said detector circuit being pervious to radio waves, an audio frequency amplifier disposed in said casing and electrically coupled to said detector circuit, a power supply for said detector and said amplifier, said casing including a hand-gripping portion located at the lower end of said casing remote from said detector circuit to prevent shielding of said detector by the hand,



and a speaker located in said hand-gripping portion and connected to said amplifier.

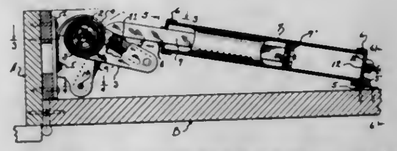
23,652

DOOR CHECK

Karl Kolbus, Milwaukee, Wis., assignor to The Seneca Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Original No. 2,477,486, dated July 26, 1949, Serial No. 646,822, February 11, 1946. Application for reissue September 11, 1952, Serial No. 309,158

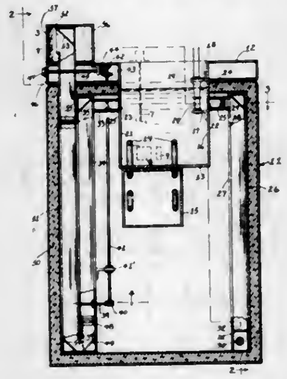
6 Claims. (Cl. 16—70)



1. A door check comprising an angular bracket adapted to be secured to a door frame *within the confines of the door jamb of said frame*, a stud extending therefrom, a hubbed lever journalled upon the stud, a convolute spring having its inner end secured to the lever hub and its outer end secured to the bracket, a *door check* cylinder, *a head mounted upon the inner end of the cylinder*, a second head mounted upon the [inner] *outer* end of the cylinder, an air vent in said [second] *outer* head, a clip adapted to be secured to a door in pivotal connection with [an] *the* outer head, a piston rod slidably guided in the [second] *inner* head carrying a piston mounted in the cylinder, the exposed end of the piston rod being provided with an elbow extension in pivotal union with the bracket *within the door opening* and a link in pivotal union *at one end thereof* with the piston rod elbow and *in pivotal union at its other end with* [spring controlled] *said* lever.

23,653
ELECTROPHORETIC LIQUID ANALYSIS APPARATUS HAVING A DIAPHRAGM AND CYLINDRICAL LENS IN THE OPTIC PATH
Kurt G. Stern, New York, N. Y.
Original No. 2,495,297, dated January 24, 1950, Serial No. 739,178, April 3, 1947. Application for reissue November 20, 1952, Serial No. 321,750
15 Claims. (Cl. 88—14)

1. An apparatus for optically producing a curve showing the refractive index gradients in a liquid, comprising a chamber, means for maintaining said chamber at substantially zero [relative] humidity, radiation channelling means in said chamber defining an optic path having a *folded* [connected] axial plane, a line source of radiant energy in said chamber located in the axial plane of said optic path, means for supporting a column of liquid in said optic path with said axial plane intersecting the column transverse to the longitudinal axis thereof, means for projecting radiation from said source along said axial plane in the form of a relatively flat beam impinging transversely across said column, a diaphragm, means for supporting said diaphragm in the optic path and in the path of emergent radiation from said column, said diaphragm having a radiation-intercepting element which is angularly crossed with respect to said axial plane, and a cylindrical lens in the optic path and in the path of the radiation transmitted through said diaphragm, said cylindrical lens being oriented with its longitudinal axis at right angles to said axial plane,



so as to amplify the deviation of the rays of the transmitted radiation caused by their passage through regions of the liquid column having refractive index gradients.

PLANT PATENTS

GRANTED MAY 5, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,182
ROSE PLANT
Josephine D. Brownell, Little Compton, R. I.
Application January 31, 1952, Serial No. 269,255
1 Claim. (Cl. 47—61)

The new and distinct variety of rose plant as described and illustrated, characterized by its bloom and color pattern, form and color and its wichuraiana traits.

1,183
STRAWBERRY PLANT
Frank J. Keplinger, Farwell, Mich., assignor to Emlong Nurseries, Inc., Stevensville, and Carl A. Stahelin, Bridgman, Mich., jointly
Application December 26, 1950, Serial No. 202,622
1 Claim. (Cl. 47—62)

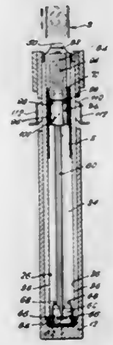
A new and distinct variety of strawberry plant substantially as herein disclosed, characterized by the brilliant red color and larger size of its fruit; its greater fruit productivity and higher fruit production continuity from spring until frost; its higher plant multiplication capacity; its ability to thrive under adverse weather and soil conditions; the short spacing of plants on and the red color of its runner stems; and its dark green, glossy foliage.

PATENTS

GRANTED MAY 5, 1953

GENERAL AND MECHANICAL

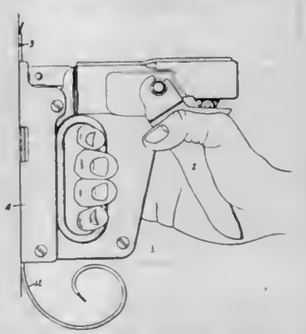
2,637,029
STAPLE SUPPORT SLIDE AND FEED MEANS FOR STAPLING MACHINES
Herbert W. Marano, Brooklyn, N. Y., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application August 29, 1950, Serial No. 181,980
11 Claims. (Cl. 1—3)



1. In a staple driver, a body member, an elongated staple support member reciprocably slidable into and out of the body, said support having staple discharging and staple receiving ends, a staple pusher on the support, spring means tensioned normally to urge the staple pusher towards the discharge end of the support, the pusher having a plurality of spring fingers normally biased divergently into staple-engaging position, a hollow member adapted to receive the pusher disposed adjacent the staple receiving end of the slide, movement of the pusher into the hollow member causing converging movement of the pusher fingers towards each other against their normal biasing and out of staple engaging position.

2,637,030
STAPLING MACHINE WITH GUIDING ELEMENT.
George E. Wickman, Westport, and William R. Young, Fairfield, Conn., assignors to General Electric Company, a corporation of New York
Application June 28, 1951, Serial No. 234,056
3 Claims. (Cl. 1—49)

1. In a stapling machine for fastening wire to a surface, a wire positioning and guiding base element comprising an elongated member having plane base surfaces with recesses therein whose walls are cut away at intervals but which together define a discontinuous, elongated channel adapted to receive a wire to be stapled, and spaced ears alternately extending into and partially across said channel from opposite sides at the cutaway intervals, whereby the wire to be stapled can be laterally inserted into the channel and removed therefrom and will be held in the channel by said ears during relative longitudinal motion between said base element and the wire.

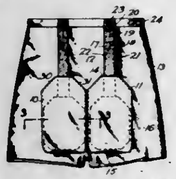


2,637,031
PHYSICIAN'S FINGER COT
Nathan H. Friedman, Stratford, Conn.
Application March 9, 1950, Serial No. 148,718
2 Claims. (Cl. 2—21)



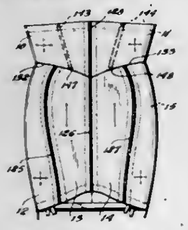
1. A physician's finger cot comprising a single finger-receiving tube having a closed end for use on the index finger; and a continuous skirt integrally connected to the other end of said tube for snugly fitting, covering and protecting only those portions of the hand immediately adjacent the base of the index finger, said skirt including a preformed lateral saddle portion adapted to extend upwardly from one side of the finger tube when in place for engaging the crotch portion of the hand between the fingers and extending up onto the side of the middle finger and terminating slightly above said crotch, said skirt further including at the other side of the finger tube a depending flap portion with the edge thereof on each side of the saddle portion being convexly curved from a central point at the top of the saddle portion for covering portions of the hand between the index finger and thumb.

2,637,032
GARMENT SEAT CUSHION
Giuseppe F. Pinsuti, New York, N. Y.
Application July 25, 1950, Serial No. 175,673
9 Claims. (Cl. 2—23)



4. A holding member for a seat cushion comprising a pair of flexible pockets arranged in side by side relation and each partly open at the top edge thereof and open at the bottom edge thereof, a flexible connecting member joining the upper portions only of the pockets, the lower portions of the pockets being movable relatively to each other laterally and transversely, a cushion in each pocket, and a strap secured to the top part of each cushion and projecting out of the pocket, said strap having a series of longitudinally spaced perforations therein.

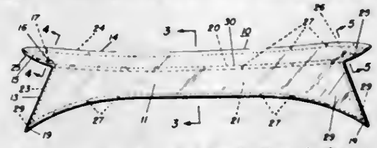
2,637,033
GIRDLE CONSTRUCTION
Ethel R. Kaupp, New York, N. Y.
Application November 1, 1948, Serial No. 57,780
5 Claims. (Cl. 2—28)



1. A woman's girdle having a lower thigh encircling portion extending from about the waistline downwardly to cover the thighs of the wearer and an upper diaphragm encircling cuff portion encircling the diaphragm of the wearer and consisting of an inverted conical funnel structure extending upwardly from the waistline to slightly above the diaphragm of the wearer, the upper and lower portions being connected by seaming around the waistline and the lower portion consisting of a plurality of vertically extending panels of one-way and two-way stretch elastic fabrics, the adjacent vertical side edges of which vertically extending panels are gathered together and seamed together by stitching along the front and sides of the garment.

2,637,034
COLLAR PROTECTOR
Rosa B. Smith, Baltimore, Md.
Application October 30, 1950, Serial No. 192,982
4 Claims. (Cl. 2—60)

1. A collar protector comprising an envelope having inner and outer walls with the edges of each wall joined together and leaving adjacent free edges extending longitudinally of the inner and outer walls, the inner and outer walls forming the envelope having extensions forming tabs in adjacency to the said free edges, said walls being disposed closely to one another and contoured to fit over a shirt collar having a stud thereon and enclose the shirt collar on all its faces, said envelope being bendable on the collar in conformity with the conventional bend



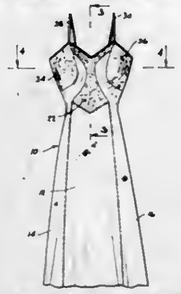
lines of the collar and including holes in the tabs alignable with the stud of said shirt collar for fastening the protector to the collar through the use of the stud in said holes, the outer wall of one of the tabs being imperforate to cover the stud protruding through the aforesaid holes.

2,637,035
INSULATED UNDERGARMENT
Miriam S. Herzog, Riverdale, N. Y.
Application May 19, 1950, Serial No. 162,839
1 Claim. (Cl. 2—73)



A woman's slip for use under a dress comprising a body of appealing fabric of the kind to chill exposed flesh when engaged therewith, said body having a bodice portion, a skirt portion, and a waist portion, shoulder straps secured to the bodice portion, a lining of flannelette on the inside of the skirt portion extending from a point below the waist portion to the bottom end edge of the skirt portion, and rows of stitching securing said lining to the skirt portion at the top and bottom ends of the lining.

2,637,036
SLIP
Sylvia Roodner, Bronx, N. Y.
Application May 16, 1952, Serial No. 288,172
4 Claims. (Cl. 2—73)



1. A slip of the character described comprising a bodice portion and a skirt portion which

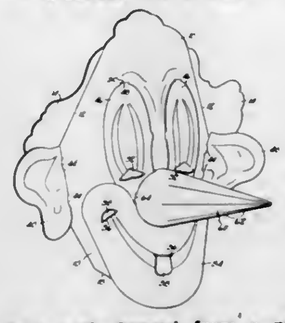
are attached to each other along a common waist line, the front of said bodice having a bust separator insert, said insert terminating in oppositely diverging shoulder portions, a pair of cup members, said cup members each having its uppermost portion attached to each of the diverging shoulder portions of the bust separator insert, and a pair of arcuate portions inserted and attached between the bust separator insert and the cup members and below the attached portion of the latter elements.

2,637,037
METHOD OF SECURING COAT LININGS AND THE LIKE TO COATS
Ralph W. Persico, Philadelphia, Pa.
Application May 17, 1950, Serial No. 162,571
1 Claim. (Cl. 2—97)
(Granted under Title 35, U. S. Code (1952), sec. 266)



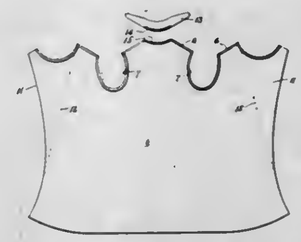
The process of securing coat linings, padding or the like to a coat, which comprises uniting the coat material and sleeve material by a line of machine stitching about the armhole of a coat, machine stitching a narrow strip of fabric adjacent one of its edges directly to the seam thus formed, folding back the coat material and machine stitching it to the sleeve material to provide a raised seam, and machine stitching a coat lining or the like to the free edge of the strip.

2,637,038
FACE MASK
Ralph H. Bower, Goshen, Ind.
Application November 19, 1948, Serial No. 60,877
6 Claims. (Cl. 2—206)



1. A face mask formed from a paperboard blank having a pair of laterally spaced downwardly projecting chin strap portions each having a slot therein adjacent its upper end, a tab on the free end of each chin strap portion, said blank being bent transversely and said chin strap portions being folded inwardly along fold lines substantially perpendicular to the longitudinal dimension of said blank to lie in an overlapping substantially horizontal position with the tab of each chin strap portion fitting in the slot of the other chin strap portion to lock said blank in predetermined bent shape with its central portion spaced forwardly from said strap portion, and a tie member secured to the side portions of said blank and adapted to be passed around the back of the head of the wearer to hold said mask in place.

2,637,039
GARMENT CONSTRUCTION
Albert Teitelbaum, Los Angeles, Calif.
Application September 9, 1949, Serial No. 114,736
1 Claim. (Cl. 2—243)

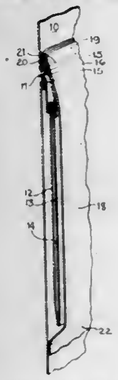


The herein described method and means for matching and joining cut edges of fur material to form a pre-fabricated fur garment, the parts of which are cut to measurements for the person who is to wear the same, which consists in providing pairs of measured matching and meeting edges, on their wrong sides, with corresponding strips of tape, as to color and length and according to said measurements the tapes of each pair being of the same color and the color employed in each pair being different from the color employed in each of the other pairs, whereby the edges of the material are brought flatwise together, face to face, between the strips of tape on their back sides, and sewed through said tape, said tape strips constituting premeasurements and reinforcing for each seam.

2,637,040
NONSAG GARMENT POCKET
Isadore Kay, Chicago, Ill.
Application December 23, 1949, Serial No. 134,817
1 Claim. (Cl. 2—247)

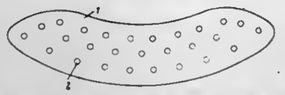
A non-sag pocket construction comprising a garment cloth having a slit formed therein, a pocket structure having a collar portion, said collar portion also having a slit in one of its walls registering with the garment cloth slit, one portion of said slit collar being attached to the garment cloth above its slit and the other portion of said slit collar being attached to the garment cloth below its slit, the edges of the slit garment cloth and collar material being hemmed, the fold lines of the hems of the garment material being respectively above and below the fold lines of the corresponding hems formed in the collar material said attached collar hem portions projecting above and below the edges of the garment cloth slit to form a mouth, and a retain-

ing cloth section secured to said garment cloth at a point below the pocket structure and through



said collar at a point above the garment cloth slit and collar mouth.

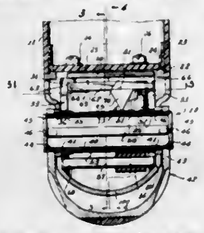
2,637,041
FLEXIBLE STIFFENING ELEMENT FOR BODY-SUPPORTING GARMENTS
Camilla Bachmann née Klee, Hamburg-Bahrenfeld, Germany
Application July 11, 1950, Serial No. 173,053
In Germany July 12, 1949
5 Claims. (Cl. 2—260)



1. A flexible stiffening element adapted to be removably associated with a body supporting garment for stiffening selected portions of said garment, which comprises a flat member formed from flexible non-resilient metal manually deformable and having the characteristic of retaining the shape to which it is deformed embedded in a soft, flexible rubber envelope, said rubber envelope completely surrounding said deformable member throughout its length and being vulcanized thereto, whereby said member is permanently and wholly enclosed in said envelope, said rubber envelope having a portion extending outwardly beyond the edges of said member to provide a thin peripheral rubber edge around said member.

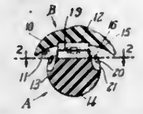
2,637,042
ELBOW LOCK AND ALTERNATOR FOR ACTUATING THE SAME
Donald M. Threewit, Inglewood, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application July 27, 1951, Serial No. 238,825
4 Claims. (Cl. 3—12.2)

4. In an artificial arm having an upper arm portion, a forearm portion, and an elbow connecting them together for relative swinging movement, an elbow lock comprising, in combination, a toothed sector fixedly connected to one of said arm portions coaxial with the pivot axis of said elbow, a locking lever pivoted on the other of said arm portions and engageable in the teeth of said sector to lock said arm portions against relative movement, spring means urging said lever into engagement with said sector teeth, a rotatable cam journalled on said other arm portion and engageable with said lever, said cam being operable in one position to lift said lever out of engagement with said sector teeth, and in another position to release said lever so that



spring means is enabled to depress the same into engagement with said sector teeth, a pivoted operating lever mounted coaxial with said cam, and a one-way driving connection between said lever and said cam operable to advance the latter from one of said positions to the other each time the operating lever is oscillated.

2,637,043
OCULAR PROSTHESIS
Leon A. Morrell, Mount Vernon, N. Y.; Lillian Magdalene Morrell, executrix of said Leon A. Morrell, deceased, assignor of one-half to Edwin H. Erickson, Teaneck, and one-half to Emanuel Rosen, Newark, N. J.
Application September 28, 1948, Serial No. 51,570
7 Claims. (Cl. 3—13)

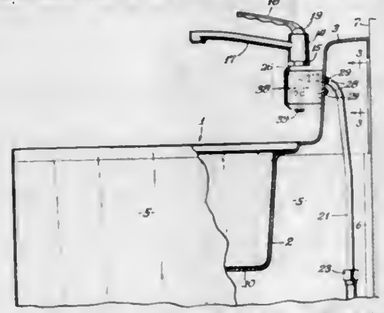


1. An implant adapted to be inserted into the inner portion of the socket remaining after the removal of an eye, said implant including a body portion of generally spherical shape provided with an anterior face and a posterior portion and the implant having means for connection with ocular muscles for movement of the implant by the muscles, said implant having a substantially cylindrical well therein extending inwardly a distance from the anterior face thereof and a permanent magnet shaped to fit into the well and fixed therein and having its pole faces effective adjacent the anterior face of the implant.

2,637,044
MOUNTING BRACKET FOR FAUCETS AND THE LIKE
Frank D. Low, La Grange Park, Ill., assignor to General Electric Company, a corporation of New York
Application December 30, 1950, Serial No. 203,617
4 Claims. (Cl. 4—192)

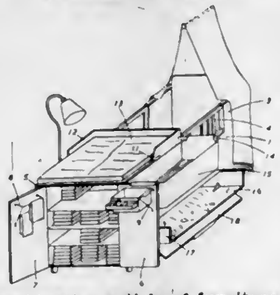
1. A faucet mounting for a sink having a wall portion disposed adjacent the bowl of the sink, said wall portion having an opening to accommodate the passage of water supply piping from the body of the faucet to a point of connection with service piping below the sink: comprising a bracket having a rigid top member provided with an opening to receive an upper portion of the faucet body and wall means disposed in overlying relation with wall portions of said faucet

body, mutually spaced leg portions extending downwardly from said top member at the rear thereof, the said top member and leg portions fitting about the top and side margins of said sink wall opening, side wall members extending from said leg portions and closely embracing said faucet body above the base thereof, a saddle ex-



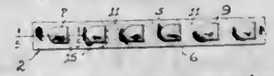
tending between said side wall members below said faucet body and in engagement therewith, fastening means adjustably securing said saddle to said side wall members to cause said saddle to displace said faucet body into tight engagement with said wall means of the said rigid top member, and means for removably securing said bracket legs to said sink wall.

2,637,045
FURNITURE
Johannes Staartjes, Amsterdam, Netherlands, assignor to Bruynzeel's Deurenfabriek N. V. of Pieter Ghijseniaan, Zaandam, Netherlands
Application April 10, 1946, Serial No. 661,088
In the Netherlands July 19, 1945
6 Claims. (Cl. 5—2)



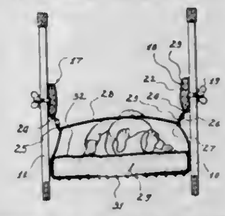
4. A combination article of furniture comprising a bedstead having side walls each with an integral section extending at one end beyond that end of the bedstead, an end partition at the end of the bedstead adjacent the extended sections, a pair of doors, one hinged on each extended section, and a cover plate consisting of upper and lower leaves, the lower of said leaves being on the upper portion of the extended portion of the side walls of the bed, hinge means having a hinging axis extending transversely of the bed connecting one side edge of the upper leaf to a side edge of the lower leaf so that the upper leaf can be unfolded from a position overlying the lower leaf to a position alongside of the lower leaf and bearing on the side walls of the bedstead, said extended portions, doors and cover plate together forming a cupboard at one end of the bedstead.

2,637,046
SOUND INSULATING STRIP MEMBER FOR SINUOUSLY CORRUGATED WIRE SPRINGS
William H. Neely, Cleveland, Ohio, assignor to The Universal Wire Spring Company, Bedford, Ohio, a corporation of Ohio
Application May 19, 1951, Serial No. 227,244
8 Claims. (Cl. 5—309)



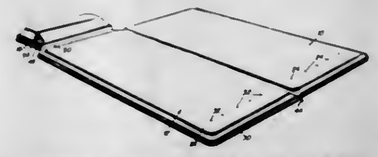
1. A sound-insulating strip member for flat, sinuously corrugated wire springs embodying an elongated strip of material, and aligned, spaced, cup-shaped recesses in said strip, said recesses having open ends dimensioned, shaped and positioned to permit shifting of loops of sinuously corrugated wire springs through said open ends into said recesses for sound-insulation of predetermined areas of wire springs.

2,637,047
BLANKET COVERING RETAINER DEVICE FOR BABY CRIBS
William Zurzolo, East Elmhurst, N. Y.
Application September 1, 1948, Serial No. 47,270
3 Claims. (Cl. 5—320)



3. In combination, blanket covering retaining device for baby cribs comprising side boards adapted to be attached to the sides of a crib, each of said side boards having a slide fastener strip, a blanket covering adapted to be extended over the crib mattress and downwardly over the sides thereof, cooperating slide fastener strips secured to the top surface of the blanket covering said fastener strips adapted to lie adjacent the respective sheet fastener strips of the side boards, a slide engaging with the bottom surface of the blanket covering and releasably secured to the upper end of the blanket covering, and said sheet having a flap portion adapted to be extended downwardly over the top surface of the blanket covering.

2,637,048
SLEEPING BAG
William Peters and William Drummond, Albany, Oreg.
Application December 11, 1950, Serial No. 200,152
2 Claims. (Cl. 5—343)



1. A sleeping bag comprising an upper panel of flexible material and a lower flexible panel

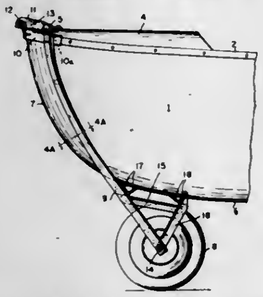
hingedly connected to said upper panel, and a head rest flap connected to one edge of said lower panel, said head rest flap comprising a flexible panel of sufficient length to be propped to form a canopy and having an inflatable section to constitute a pillow when said head rest flap is rested upon a supporting surface.

2,637,049
SHEET
Esther M. Kromer and Edward L. Kromer, Chicago, Ill.
Application April 26, 1949, Serial No. 89,594
1 Claim. (Cl. 5—354)



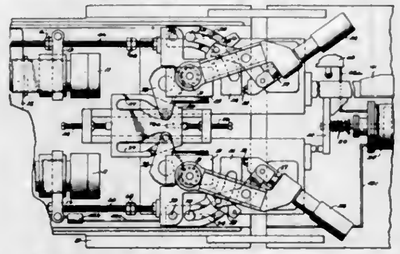
A fabric box sheet for use with a mattress having side and end faces and a bottom, said sheet comprising a rectangular central panel, a pair of parallel rectangular corresponding end portions and a pair of parallel rectangular corresponding side portions, all of said portions integral with said central panel, and extending beyond said central panel, one pair of said parallel rectangular portions extending slightly further beyond said central panel than the other pair and providing a surplus, each of said side portions stitched to an adjacent end portion, and a plurality of doubly folded triangular members of the same material as the central panel, each triangular member attached to a side portion and to an adjacent end portion forming a box like closed anchoring portion, whereby the anchoring portions may removably engage the bottom and corners of the mattress and one pair of said parallel rectangular portions may engage only opposite faces of the mattress while the extended pair of parallel rectangular portions may engage other opposite faces of the mattress and the surplus may curve slightly under the bottom of the mattress for the full extent of said last named faces of the mattress.

2,637,050
DETACHABLE WHEEL MOUNTING FOR BOATS
Frank Allen Oliver, East Detroit, Mich.
Application May 10, 1950, Serial No. 161,100
3 Claims. (Cl. 9—1)



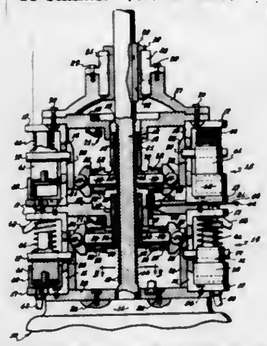
1. In combination with a boat having gunnel rails and spray rails downwardly spaced from the gunnel rails and having sockets substantially opposed transversely of the boat, of a pair of elongated mountings exteriorly adjoining opposite sides of the boat and each having an upper and a lower end, a pair of wheels journaled on said lower ends, a pair of clamps pivoted on said upper ends for gripping the gunnel rails, seats on said upper ends for underlying the gunnel rails, and elements carried by the mountings between their ends engageable in said sockets to hold the mountings in proximity to the spray rails.

2,637,051
FEEDING MECHANISM FOR NIPPLE THREADING MACHINES AND THE LIKE
George B. Marsden, Chicago, Ill., assignor to Chicago Nipple Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application May 27, 1949, Serial No. 95,636
5 Claims. (Cl. 10—91)



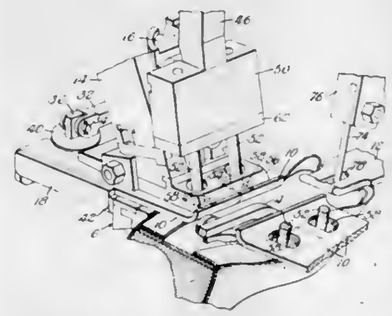
1. Feeding mechanism for nipple threading machines and the like having a head rotatable on a horizontal axis comprising a carriage movable horizontally toward and away from the head, a chuck pivoted on the carriage on a vertical axis to swing from a position aligned with the head to a position at right angles thereto, movable gripping jaws in the chuck to grip a work piece, means to turn the chuck on the carriage as the carriage moves, means to move the gripping jaws to gripping position as the chuck turns, auxiliary jaws on the chuck yieldingly urged into gripping engagement with a work piece in the chuck, and means to open the auxiliary jaws during movement of the chuck in one direction.

2,637,052
TAPPING MACHINE
Herbert J. Woock, Arcadia, Calif.
Application April 4, 1949, Serial No. 85,431
13 Claims. (Cl. 10—139)



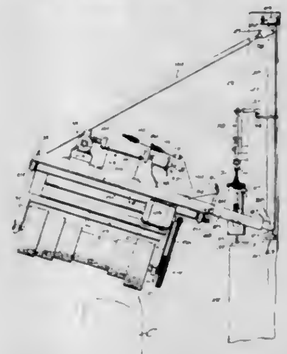
4. An attachment for the conversion of a drill press or the like having a rotary axially displaceable spindle into a tapping machine, comprising a plurality of separable leadscrew units secured in stacked relationship and adapted to enclose an extended end of said spindle, each of said units including its own non-rotatable leadscrew nut and a leadscrew threadedly seated therein, and movable relative thereto axially of said spindle upon being rotated, the leadscrews of different units having threads of different pitch that their rates of axial displacement will differ for a given speed of rotation, and operator-controlled indirectly actuated means selectively to connect said leadscrews to said spindle during its rotation.

2,637,053
PULLING-OVER MACHINE
Ernest L. Butler, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 29, 1950, Serial No. 176,676
6 Claims. (Cl. 12—10.1)



5. In a pulling-over machine, the combination with means for pulling an upper over a last, of means for wiping the margin of the upper inwardly over an insole on the last into position to adhere to the insole in different locations about the forepart of the last while leaving the forepart of the upper unattached to the insole in other locations, a pair of hammers arranged to act on the overwiped margin of the upper at each side of the forepart, a block carrying each pair of hammers and movable heightwise of the last to cause them to deliver blows on the margin of the upper, the hammers carried by each block being movably mounted each independently of the other to permit the block to move relatively to them heightwise of the last after their engagement with the upper, springs in each block arranged to act respectively on the different hammers and yieldable in response to such further movement of the block after the engagement of the hammers with the upper, the block having therein recesses into which the hammers extend, said recesses being elongated lengthwise of the last to permit the hammers to be positioned adjustably different distances apart in operative relation to said springs, and a plate detachably secured to the block and having openings through which the hammers extend for determining the distance between them in accordance with the distance between said openings.

2,637,054
ROTARY BRUSH TYPE APPARATUS FOR WASHING ROOFS OF RAILWAY CARS AND OTHER VEHICLES
Louis D. Holmes, Blue Island, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application March 2, 1949, Serial No. 79,272
12 Claims. (Cl. 15—53)

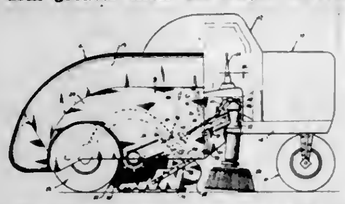


1. An apparatus adapted for use in connection with washing of a portion of the roof of a vehicle as the latter is propelled on a runway past it and comprising an upstanding supporting structure located at one side of the runway and embodying a substantially horizontal boom type element disposed at a higher elevation than the roof of the vehicle when the latter is on the runway and adjacent the supporting structure and mounted to swing about a vertical axis back and forth between a working position wherein it overlies, and extends transversely of, the runway and a nonworking position wherein it is disposed at said one side of, and is in substantially parallel relation with, said runway, mechanism for swinging the element back and forth between said positions, a frame carried by the element so that said frame is capable of swinging upwards and downwards about an axis in substantially parallel relation with said element, and an elongated rotary power driven brush mounted on the frame so that it is disposed in substantially parallel relation with the element and adapted when the element is in its working position and the frame is swung downwards and during propulsion of the vehicle past said supporting structure to engage the roof portion of the vehicle.

2,637,055
POWER SWEEPER BROOM ASSEMBLY AND WEIGHT COMPENSATING MEANS THEREFOR
Carl W. Mott, La Grange Park, Ill., assignor to Elgin Sweeper Company, Elgin, Ill., a corporation of Illinois
Application May 3, 1946, Serial No. 667,070
9 Claims. (Cl. 15—83)

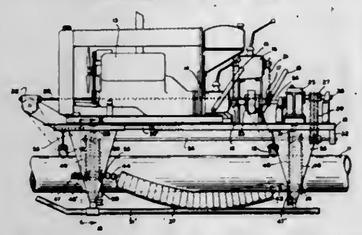
1. In combination in a street sweeping machine, a support structure, a main broom, an oblique arm carrying said broom at one end, a pivot connecting the other end of said arm to said support structure to allow raising and lowering of said arm and broom, said arm being longitudinally adjustable, means for maintaining the longitudinal adjustment of said arm in opposi-

tion to a generally longitudinal thrust on said arm tending to shorten said arm, and a counterbalancing tensioned spring connected to a medial point on said arm and secured to said support structure immediately above and beyond said pivot to have a length in the raised position of said arm greater than the length of said arm



from said medial point to said pivot and to define a small acute angle between the arm and the counterbalancing tension spring and to apply substantially the same torque on said arm for counterbalancing the weight of said broom in both its raised inactive position and its lowered brushing position.

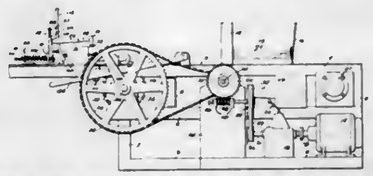
2,637,056
PIPE BRUSHING APPARATUS
Clifford F. Morain, Youngstown, Ohio
Application March 7, 1949, Serial No. 80,074
7 Claims. (Cl. 15—88)



1. Pipe brushing apparatus comprising a frame supporting a pair of longitudinally spaced fixed yokes adapted to be positioned over a pipe line, a movable yoke rotatably mounted on one of said fixed yokes for rotation about the longitudinal axis of said pipe line, a plurality of circumferentially spaced but longitudinally extending shafts journaled in the other of said fixed yokes, a plurality of circumferentially spaced but longitudinally extending shafts journaled in said movable yoke, flexible elongated brush shafts interconnecting the shafts journaled in said fixed and movable yokes and adapted to be driven thereby, a plurality of contiguous brush wheels fixed on each said brush shaft throughout substantially the whole of the length of said brush shaft, said flexible brush shafts and said wheels forming elongated flexible rope-like brushing units adapted to have intimate spiral engagement with the pipe to be cleaned, and power means on said frame to drive the shafts journaled in said fixed yoke.

2,637,057
MACHINE FOR CLEANING AND SCRAPING PALLETS OF BLOCK MOLDS
Leonard D. Moore, Ogden, Utah
Application September 30, 1948, Serial No. 51,977
3 Claims. (Cl. 15—93)

2. In a pallet cleaning machine, a frame including a cutter base plate, a pallet rack at one end of the cutter base plate from which pallets are delivered to said cutter base plate, a cutter table movable transversely of the cutter base plate in vertical spaced relation therewith, a transversely disposed shaft secured to the cutter table, blade supporting arms loosely mounted on said shaft disposed longitudinally of the frame, vertical cutter blades supported on the blade supporting arms, coiled springs resting on the blade supporting arms, spaced guide plates



rising from said cutter table, pressure bars having one of their respective ends pivotally held between said spaced guide plates, the other ends of said pressure bars resting on said springs exerting downward pressure on said blade supporting arms beyond the normal pressure directed to the blades by said coiled springs upon upward movement of said cutter blades, and means for moving the cutter table and blades transversely of the cutter base plate.

2,637,058
SEWER CLEANOUT IMPLEMENT
William F. Anderson, Wilmington, Calif.
Application October 11, 1949, Serial No. 120,779
3 Claims. (Cl. 15—104.3)

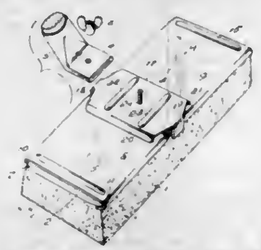


1. A cleanout implement for drain pipes comprising: an elongated flexible body for insertion in a pipe and having a head on its leading end for piercing a mass of matter which reduces the effective area of a pipe, and a scraper on said flexible member at a position rearwardly of said head so as to follow said head as the flexible member is extended into a drain pipe, said scraper having a circular cutting edge of substantially less diameter than the drain pipe in which it is used, so that upon rotation of the flexible member the head and the scraper will be correspondingly rotated at different positions in the drain pipe for detaching particles of matter and opening a normal passage through which waste matter may be expelled to a sewer.

2,637,059
FLEXIBLE MOP WITH FLEXIBLE BACK CARRYING ABSORBENT MATERIAL AND WITH HINGED COVER PLATE
Peter S. Vosbikian and Thomas S. Vosbikian, Melrose, Pa.
Application June 13, 1949, Serial No. 98,658
3 Claims. (Cl. 15—119)

2. In a mop, a block of sponge material, a back secured to the top face of the block, spaced cover plates connected with the back, the inner juxtaposed ends of the cover plates being hinged together in spaced relationship, a pressure plate extending across the space between the inner ends of the cover plates and having overhanging portions to contact each cover plate to limit

their upward movement, the hinges having pintles and the cover plates having end marginal portions deflected to contact the pintles to maintain the pintles in assembled condition, a handle



having its lower end seated on top of the pressure plate, a bolt passing upwardly through the back, between the hinges, and through the pressure plate and the handle, and a nut for the bolt.

2,637,060
COSMETIC BRUSH
Morris Cowan, New York, N. Y., assignor of one-half to Victor Silson and Jack Silson, copartners, doing business as Victor Silson Co., New York, N. Y.
Application March 27, 1946, Serial No. 657,540
13 Claims. (Cl. 15—185)



1. In a cosmetic brush, an elongated receiver having its lower end closed and its upper end recessed said receiver consisting of a cylindrical tube substantially one-half of which is split away longitudinally along a diameter thereof over that portion of the length thereof which receives the brush to form a recess, a brush holder pivotally mounted in the upper recessed end of the receiver, and an outer longitudinally sliding closure member on said receiver to close said recessed end when the brush holder is withdrawn within the receiver and to hold it in extended position when the holder is extended, said receiver having a stop at its upper end limiting movement of the outer closure member.

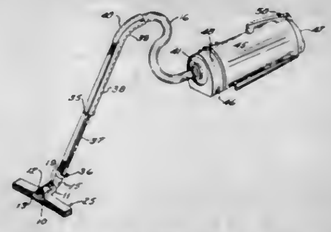
2,637,061
BRUSH CONSTRUCTION
Anthony Ozdobinski, Edwardsville, Pa.
Application March 1, 1950, Serial No. 146,950
1 Claim. (Cl. 15—226)

A brush construction comprising an elongated handle, a strip of flexible sheet material having a folded portion and a tail portion, said folded portion being slit throughout the fold to provide loop bristles throughout a part of its width and providing for an unslit part, said folded portion being wound upon the end of the handle by its



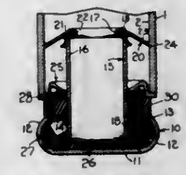
unslit part and the tail portion being wound with over-lapping turns along the length of the handle whereby to provide a gripping layer thereupon.

2,637,062
SUCTION NOZZLE WITH REMOVABLE WAND AND ILLUMINATING MEANS
Otis B. Sutton and Warren A. Humphrey, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 26, 1949, Serial No. 72,944
6 Claims. (Cl. 15—324)



1. A device of the class described comprising, a flexible hose, an air conducting hand piece permanently attached to one end of said hose, an air tool, means for detachably securing said air tool to said hand piece, said hand piece and air tool having communicating air passageways, a wand for detachably receiving a portion of said hose immediately to the rear of said hand piece, said wand comprising upper and lower sections telescopically secured together, means for detachably securing the lower end of said lower section to the rear end of said hand piece independently of said hose so as to maintain air flow through said hand piece when said wand is detached and means on the upper end of said upper section for slidably receiving said hose.

2,637,063
FURNITURE GLIDER
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 5, 1949, Serial No. 85,698
5 Claims. (Cl. 16—42)



4. A furniture glider having a cup-shaped shoe with an inwardly turned peripheral wall, a cushion disposed in the bottom of said shoe, a supporting post having a flange disposed on said

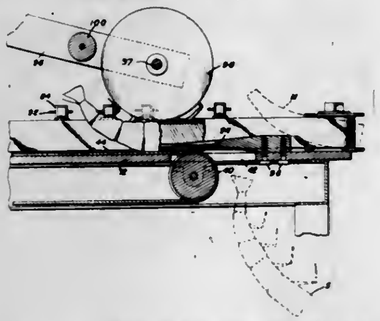
cushion, a ring of yieldable material surrounding the post within the shoe and compressed against the wall of the shoe and the flange, a cushioning washer of yieldable material surrounding the post and supported on the shoe, a wear plate disposed on the cushioning ring adapted to engage a hollow furniture leg, and means carried by the post to secure the glider to a furniture leg.

2,637,064

SHRIMP PEELING AND VEINING MACHINE

Nikoli Miller, Manteo, N. C.

Application September 22, 1950, Serial No. 186,279
10 Claims. (Cl. 17—2)



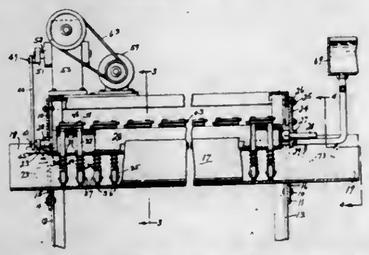
1. A shrimp peeling and veining machine including a platform having a discharge opening therethrough, an elongated piercing tool mounted above said platform and having a point overlying said opening, means operatively associated with said platform for moving a shrimp upon its back and head end foremost across said platform towards said opening and piercing tool, said piercing tool having its point positioned to penetrate longitudinally the body of a shrimp at the sand vein of the shrimp as the latter is moved across the platform upon its back towards said tool whereby the shell and sand vein are removed from the shrimp and are urged by said tool through said discharge opening and the meat of the shrimp is directed over said tool.

2,637,065

SHRIMP CLEANER AND PEELER

Fernand S. Lapeyre, New Orleans, and Emile M. Lapeyre, Houma, La., assignors, by mesne assignments, to The Peelers Company, Houma, La., a partnership

Application March 26, 1951, Serial No. 217,468
30 Claims. (Cl. 17—2)



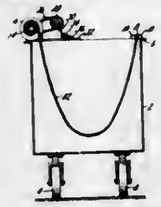
3. A shrimp cleaner and peeler comprising a means forming a shrimp-receiving surface along which shrimp are adapted to be moved and having an inlet and an outlet, a series of relatively narrow roller means arranged in spaced relation from the inlet to the outlet, said rollers being disposed opposite the surface in such relation thereto that shrimp may be successively caught and held against the surface by the rollers while the rollers ride up on the shrimp to pinch the meat from the trash, and means associated with the means forming a shrimp-receiving surface and the rollers for imparting relative movement between the rollers and the surface.

2,637,066

POULTRY CHILLING APPARATUS

Gordon W. Johnson, Raytown, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri

Application June 13, 1949, Serial No. 98,859
3 Claims. (Cl. 17—11)



1. In poultry chilling apparatus, an elongated, open top tank; an elongated member rotatably carried by the tank in parallelism with the longitudinal axis of the tank adjacent the open top thereof; and a belt adapted to receive alternate, relatively superimposed layers of flaked ice and poultry, said belt connecting the member and the tank and being adapted to depend from the open top of the tank in a loop within the tank, said belt comprising a number of metallic wires extending longitudinally of the tank, each provided with a number of loops, the loops of the wires at one edge of the belt being rigidly joined to the member throughout the length thereof, said loops all being spirally interconnected, presenting hinge connections to render the belt flexible for winding on said member to a taut condition completely covering said open top of the tank between the member and one edge of the tank when said member is rotated in one direction to raise said layers toward said open top of the tank, and presenting a plurality of openings throughout the belt, smaller than said poultry, but adapted to permit passage of said flaked ice therethrough into the tank as the layers are raised to the level of said open top of the tank and the poultry removed therefrom.

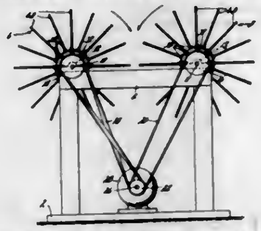
2,637,067

POULTRY PLUCKING MACHINE

Gordon W. Johnson, Raytown, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri

Application July 11, 1949, Serial No. 104,037
3 Claims. (Cl. 17—11.1)

1. A poultry plucking machine comprising a frame, a rotatably driven hub carried by said frame, a plurality of longitudinally spaced discs fixed concentrically on said hub, a plurality of rods extending between each successive pair of said discs, said rods being parallel to said hub and spaced circumferentially thereabout, a rigid finger holding member mounted pivotally on each of said rods, said finger holding member comprising a channel shaped member extending longitudinally of said rod and being provided with holes in the wall thereof transverse to said rod,



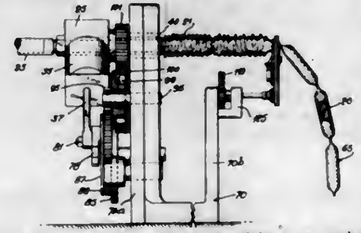
and an elongated flexible, resilient finger adapted to be inserted outwardly through each of said holes, said finger having a taperingly enlarged base adapted to wedge securely in said hole.

2,637,068

SAUSAGE MAKING MACHINE

William Kofler, New York, N. Y.

Application December 9, 1949, Serial No. 132,109
1 Claim. (Cl. 17—33)



In a sausage making machine, a rotatably mounted hollow shaft which has an inlet and an outlet end and which carries the sausage casing on its outlet end, a reciprocating pump which is connected to the inlet end of the hollow shaft and which pushes the sausage meat through the hollow shaft and into the sausage casing on its forward stroke and which tends to pull the sausage meat back from the sausage casing on its backward stroke, a casing lifter which is mounted adjacent the outlet end of the hollow shaft and which lifts the casing into axial alignment with the hollow shaft, a casing clincher mounted adjacent the casing lifter for pinching off the casing and means connected to the hollow shaft for rotating said hollow shaft to twist the sausage casing, said pump, lifter, casing clincher and rotating means being synchronized so that the casing is lifted and pinched off at the conclusion of the forward stroke of the pump, and the backward stroke is begun before the start of the casing twisting operation, whereby a suction force is applied to the casing to hold it tightly upon the hollow shaft during the casing twisting operation.

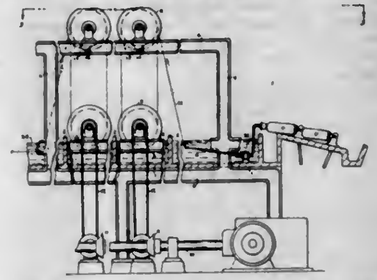
2,637,069

CONTINUOUS MANUFACTURE OF RAYON YARNS

Ralph H. McKee, New York, N. Y.

Application September 23, 1948, Serial No. 50,837
10 Claims. (Cl. 18—8)

1. An apparatus for the continuous manufacture of rayon yarns comprising adjacent nozzles to produce a plurality of adjacently spaced cellulose yarns, a series of successive treating baths, a horizontal roller bed composed of successive pairs of vertically superposed smooth top and bottom rollers coordinated to said treating baths, each pair of rollers extending the entire width thereof, the roller axes of a pair of rollers being



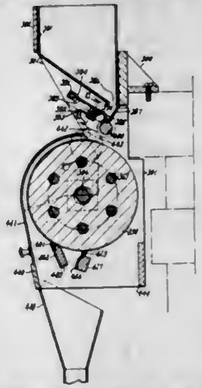
disposed in the same vertical plane and one of said rollers being tilted relatively to the other roller in such a manner that the distance between said roller axes increases in the advance direction of the yarns from one to the other end of the rollers.

2,637,070

APPARATUS FOR HEATING COMMINUTED MOLDING MATERIAL

Charles A. Nichols, Anderson, Max E. Todd, Windfall, William A. Fletcher, Daleville, and Clarence J. Keller, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

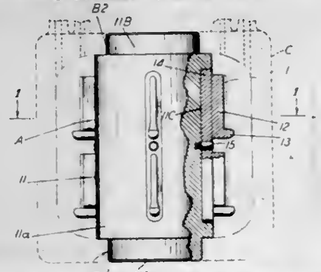
Original application September 17, 1947, Serial No. 774,592. Divided and this application April 7, 1950, Serial No. 154,654
6 Claims. (Cl. 18—30)



1. For use with an injection molding machine having a compression chamber, a doser comprising a hopper containing a supply of comminuted molding material, a rotating roller, means for heating the roller, a longitudinally grooved, rotatable roller positioned between the hopper and the rotative heated roller for receiving material gravitating from the hopper and depositing it upon the heated roller, means for removing heated material from the heated roller, means for guiding the material heated by the heated roller into the compression chamber of the molding machine, means for determining the thickness of the layer of material conveyed by the

grooved roller to the heated roller and means for controlling the duration of rotation of the grooved roller.

2,637,071
CORE FOR MOLDS
William J. Williams and James W. E. Hanes, Ventura, Calif., assignors to Ventura Tool Company, Ventura, Calif., a corporation of California
Application March 25, 1950, Serial No. 151,923
9 Claims. (Cl. 18—36)

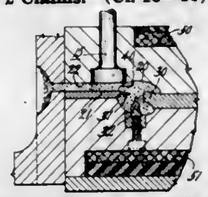


1. In apparatus for molding articles containing an annular member: a hollow mold member; a core member within said mold member; a plurality of circumferentially separated spacers extending outwardly from said core member; and ledge members extending outwardly from said spacers and upon which an end of the annular member can rest in a manner detached from said ledge members; said ledge members and spacers being adapted to support and locate the annular member in spaced relation to the exterior of said core member and the inner wall of said mold member, said spacers having outwardly disposed faces engageable by the inner surface of the annular member to prevent inward movement of the annular member laterally of the axis of the core member and to allow withdrawal of the annular member from the spacers and ledge members.

2,637,072
MANUFACTURE OF CARBON MOLDED BODIES
Charles Desmond Greaves and William Duncan Parker, London, England, assignors to C. D. Patents Limited, London, England, a British company
No Drawing. Application May 27, 1949, Serial No. 95,890. In Great Britain June 2, 1948
5 Claims. (Cl. 18—47.5)

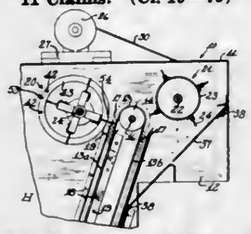
1. The process for the manufacture of carbon moulded bodies in which process powdered coal containing from 10 to 15 per cent of volatile matter on a dry ash-free basis is intimately mixed and agitated at a temperature between 100° C. and 150° C. with a hydrocarbon-containing plasticizing agent which is plastic at that temperature, the proportions by weight being about 4 parts of coal to 1 part of plasticizing agent, the resulting mixture in a plastic condition is moulded to the desired shape at about the same temperature and under a pressure of the order of two tons per square inch and the moulded shape is then fired under non-oxidising conditions at a rate of temperature rise such as to produce an undistorted product free from cracks and having no cellular structure visible to the naked eye, the fired product being allowed to cool in a non-oxidising atmosphere.

2,637,073
METHOD FOR INJECTION MOLDING
Howard T. Walther, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 18, 1950, Serial No. 156,624
2 Claims. (Cl. 18—59)



1. In a method of joining together endwise two flexible strips of rubber-like material, the steps comprising: inserting the two end portions of the flexible strips in a divided mold in spaced relation so that the end faces of said end portions provide areas in the bounding surface of the mold cavity, compressing the material of the inserted end portions for maintaining their spaced relation, injecting under pressure a vulcanizable compound of rubber-like material into the mold cavity thru a cut-off valve located adjacent to and intersecting the bounding surface of the mold cavity, then moving the cut-off valve to close the injection passages at said bounding surface of the mold cavity and concomitantly forming a closed molding surface continuous with and shaped to blend into said bounding surface of the mold cavity, then vulcanizing the injected material under heat and pressure.

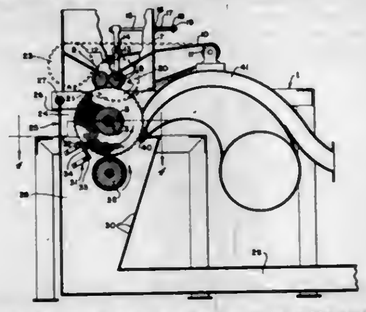
2,637,074
ROTARY FIBER COMB AND STRIPPER THEREFOR
Alfred W. Gardes, Detroit, Mich., assignor to Honan-Crane Corporation, Lebanon, Ind., a corporation of Indiana
Application March 29, 1951, Serial No. 218,248
11 Claims. (Cl. 19—79)



9. A rotary fiber comb having a plurality of circumferentially spaced radially outwardly extending teeth aligned in longitudinally spaced rows, a ring between each pair of spaced rows of teeth and means mounting each ring eccentrically to said comb, said teeth and said rings being relatively radially movable with respect to one another to release fibers caught on the ends of said teeth.

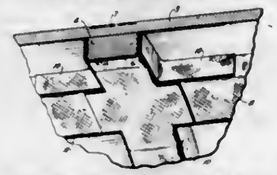
2,637,075
COTTON LINT CONDITIONING MACHINE
John Levi Rudy and William Columbus Pitts, Memphis, Tenn.
Application November 26, 1946, Serial No. 712,424
2 Claims. (Cl. 19—96)

1. A cotton lint conditioner comprising lint feeding means, a saw cylinder adjacent said feeding means, means to remove the lint from said saw cylinder, a stationary breaker bar, and a revolving brush, said breaker bar and said brush



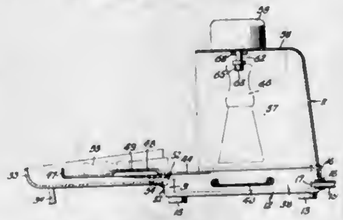
being positioned at spaced points adjacent the periphery of said saw cylinder and between said feeding means and said removing means.

2,637,076
REINFORCED CANOPY STRUCTURE
Frank B. Bolte, Los Angeles, Calif., assignor to North American Aviation, Inc.
Application October 14, 1947, Serial No. 779,667
4 Claims. (Cl. 20—40)



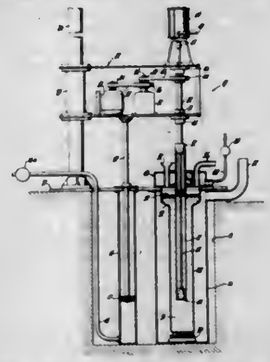
4. An airplane canopy composed of a sheet of transparent material, a grid of ribs and spars integrally bonded to one surface of said sheet, and tension-resisting tape material integrally bonded to the other surface of said sheet and to said ribs and spars, said sheet material, ribs and spars, and tape material being transparent and having indices of refraction substantially the same.

2,637,077
STERILIZER
Abraham T. Hashem and Thomas A. Hashem, Cheektowaga, N. Y.
Application July 13, 1950, Serial No. 173,664
2 Claims. (Cl. 21—96)



1. In a sterilizer of the character described having a base containing a steam generating chamber, electrical heating means in said chamber, and a casing above said base and supported thereby containing a steam sterilizing chamber, the combination therewith of means for sterilizing and drying a brush comprising a shaft extending into said sterilizing chamber and carrying means therein adapted to suspend said brush during sterilization thereof, a motor mounted on the exterior of said casing adapted to rotate said shaft and thereby to rotate said brush about its longitudinal axis, and a tray between and adapted to separate said chambers, said tray being slidably carried by said base and having a perforated upwardly projecting portion and a perforated downwardly projecting portion, said perforated upwardly projecting portion being adapted, when said tray is in position to separate said chambers, to direct steam from said generating chamber onto said brush.

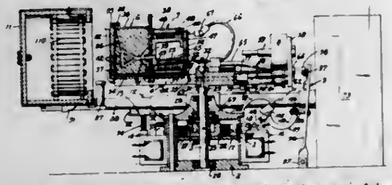
2,637,078
MACHINE FOR CENTRIFUGAL CASTING
John M. Fowle, Los Altos, and Richard W. Muchmore, Redwood City, Calif., assignors to Dura Bond Bearing Co., Palo Alto, Calif., a corporation of California
Application August 1, 1949, Serial No. 107,924
2 Claims. (Cl. 22—58.5)



1. A centrifugal casting machine for lining the interior of a tube with a layer of metal, comprising a frame, a crucible on the frame adapted to hold a body of metal, means on the frame for maintaining the body of metal in a molten state, cooling means supported by the frame at a position above the crucible and adjacent the surface of the body of the metal, other means on the frame for axially inserting a tube into the molten body of metal to approximately fill the tube with molten metal and for rotating the tube at a rate to cause the upper portion of the moten metal within the tube to move under the influence of centrifugal force outwardly and rise upwardly along the inner walls of the tube to a height above the surface of the molten metal and within the zone of the cooling means so that the upper part of the layer of molten metal so formed solidifies and adheres to the interior of the tube, said other means being operable to withdraw the tube while it is being rotated to effect a progressive application of a solid approximately uniform layer of metal to the interior of the tube, regulating means supported by said other means for controlling the ingress and egress of molten metal into and out of the bottom of the tube so as to dispose the layer of molten metal at the general height above mentioned and for maintaining said layer in substantially the same absolute position during withdrawal of the tube, said regulating means including a plug and means for clamping the same against the lower end of the tube, said

plug being formed with an axial passage, and with a radial passage intersecting said axial passage.

2,637,079
CENTRIFUGAL CASTING DEVICE
Adolph J. Kemppe, Santa Rosa, Calif.
Application September 16, 1950, Serial No. 185,195
8 Claims. (Cl. 22—65.1)



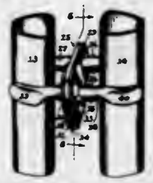
4. In a centrifugal casting device the combination with a whirling mechanism, a frame rotated by said whirling mechanism, a mold on the frame having a molding cavity therein, a crucible between the axis of rotation of the frame and said mold and being connected by a passage to said cavity to transfer molten material from the crucible into said cavity by centrifugal force as said crucible and mold are rotated together with said frame; of a burn-out muffle movable over said mold to burn out wax filling from said cavity, a non-rotatable support for said muffle being slidable relatively to said frame for moving said muffle over and off said mold, means to normally urge said support in a direction to remove said muffle off said mold, a releasable catch device to hold said muffle over said mold, and a device movable with said muffle to prevent rotation of said frame when said muffle is over said mold and to release said frame when said catch device is released and said muffle is removed from said mold.

2,637,080
CLASP PIN EYEGLASS HOLDER
Marie Nemser, Jersey City, N. J.
Application August 19, 1950, Serial No. 180,485
1 Claim. (Cl. 24—13)



A device for securing a pair of framed eyeglasses on a garment by pin means which comprises a strap of mesh metallic material, a channel member formed with its side portions binding one end of the strap of mesh metallic material and its base portion extending along the end edge of said strap, a second channel member similarly binding the other end of said strap, a side wall of both of said channel members having teeth engaged in the mesh of the strap, a pair of soft resilient material secured to one face of said strap, a T-shaped latch member projecting from the base of one of said channel members in the plane of the grasped end of the mesh of the metallic material and perpendicular to one plane of said base, and a T-shaped slot in one side wall of the other channel member, the upright of said T-shaped slot extending across the base of the channel member, said T-shaped latch member engageable in said T-shaped slot to secure the strap loop fashioned above the nose portion of the eyeglass frame.

2,637,081
CLAMP
Bror W. Henrikson and Walter E. Nordmark, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application April 21, 1952, Serial No. 283,306
3 Claims. (Cl. 24—81)



1. A clamp for clamping together a pair of elongated elements in substantial parallelism, comprising: a pair of generally cylindrical elongated clamping members connected together in substantial parallelism and adapted for disposition on opposite sides of the elonagted elements transversely thereof and with said elongated elements extending between the opposite paired ends respectively of said clamping members; a hook member rotatably mounted on the first of said clamping members at the latter's approximate middle and extending in the general direction of the second clamping member; and a locking member rotatably mounted on the second clamping member at the latter's approximate middle and pivotally connected to said hook member whereby turning movement of the locking member engages the hook member with said second clamping member to secure the clamping members together with the elongated elements clamped therebetween.

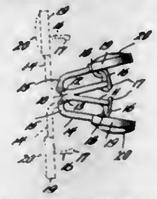
2,637,082
DETACHABLE BUTTON
Mary T. Lowther and Alston R. McKinstry, Brunswick, Ga., assignors of one-fourth to said Lowther, one-fourth to Paul F. Hyer, and one-half to Charles F. Brock, all of Brunswick, Ga.
Application May 4, 1949, Serial No. 91,366
4 Claims. (Cl. 24—102)



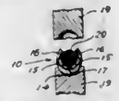
1. In a quick insertable button, the combination which comprises a button head and a base spaced from the head having a radially disposed slot therein with the material of the base at one side of the said slot flared outwardly away from the head, and a U-shaped connector having a pair of parallel arms connecting the base to the head with one arm of the connector positioned in an opening in the base and the other in the said radially disposed slot, and the ends of the arms being bent outwardly thereof at a right angle thereto and the ends and a portion of the arms being embedded in said button head.

2,637,083
CUFF LINK AND THE LIKE
Andre Plotnisky, New York, N. Y.
Application May 17, 1951, Serial No. 226,855
1 Claim. (Cl. 24—102)

In a cuff link of the kind described, a body, a pair of relatively long rigid arms diverging in one direction from said body, a pair of relatively short and rigid arms diverging in the opposite direction from said body, a pair of rigid swinging arms each having an arcuate end pivoted to the end of a respective short diverging arm, arcuate camming fingers extending from the ends of the first mentioned diverging arms and terminating close to the free ends of said swinging arms, spring fingers extending from the free ends of the swinging arms and curved to have their free ends engage the camming fingers upon closure of the swinging arms toward the first mentioned rigid arms, and latch ends on said spring fingers engaging over the ends of the first mentioned rigid arms upon closure of the swinging arms relative to the first mentioned rigid arms.

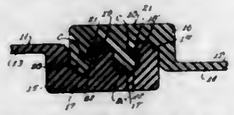


2,637,084
CORD STOP
Hans K. Lorentzen, Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application July 19, 1950, Serial No. 174,633
4 Claims. (Cl. 24—114.5)



1. A cord stop for application to a Venetian blind cord, said cord stop comprising: a stamped, U-shaped sheet metal strip of arcuate transverse cross section, the closed end of the strip and the upper portions of the upstanding legs having substantially the same generally spherical curvature and the closed end and the upper portions of the legs being separated by a structurally weakened zone of reduced cross-sectional area and lesser transverse and longitudinal curvature on each leg, the strip being deformable into a smooth, circular, transversely arched form embracing the cord with the ends of the legs of the strip in edge-to-edge contact by deforming the structurally weakened zones of the legs.

2,637,085
SEPARABLE FASTENER
Börge Madsen, Copenhagen, Denmark, assignor, by mesne assignments, to Flexigrip, Inc., New York, N. Y., a corporation of New York
Application December 13, 1950, Serial No. 200,661
In Denmark December 14, 1949
2 Claims. (Cl. 24—201)



1. A fastener comprising a pair of flexible strips, each strip having a plane web portion and a thickened marginal portion, each marginal portion having parallel channels and ridges alternating with each other, the channels in one of said marginal portions corresponding in shape to the ridges in the other and vice versa, the depth and height axis of said channels and ridges being perpendicular to the plane of their respective web portions, each of said ridges having a projecting portion providing a substantially plane surface overhanging the adjacent channel on the same marginal portion, the plane surface on each projecting portion sloping at an angle to the planes of said web portions less than the angle of repose and pairs of said surfaces being in slightly spaced opposed relationship when said ridges and said channels are in normal interfitting relationship, whereby when said strips are subjected to bending while the fastener is closed the opposed surfaces of each of said pairs are brought into contact to resist any tendency toward separation of said strips.

2,637,086
COMBINED SLIDE FASTENER
Osborne David Phillips, Bronxville, N. Y., assignor, by mesne assignments, to Flexigrip, Inc., New York, N. Y., a corporation of New York
Application August 31, 1950, Serial No. 182,473
1 Claim. (Cl. 24—203)

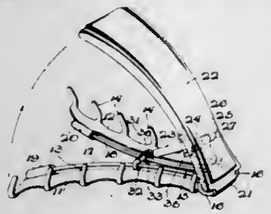


A composite strip fastening device comprising a pair of elongated flexible strips of organic plastic material, each having along one inner edge thereof a terminal projection and a groove inwardly thereof with a common undercut face therebetween sloping outwardly and away from said edge, said edges being adapted when overlapped to interlock when forces are applied to said edges pressing the same together, with the projection of one edge in the groove of the other edge and with the common undercut faces in abutment, a pair of elongated cloth strips joined to said plastic strips along lines near their adjacent outer edges, slide fastener elements along the inner edges of said cloth strips, said slide fastener elements being of the type that disengage upon the application of a wedging force acting to displace said elements laterally in the plane of said cloth strips, the total width of said cloth strips between said lines of jointure being substantially less than the width of said plastic strips between said same lines of jointure, whereby transverse tension on said strips is resisted only by said cloth strips, and a common actuating element having parts coacting with said fastener elements and having other parts coacting with said projection and groove edges to close and open both of said plastic and cloth strips simultaneously.

2,637,087
SHOE FASTENER
Clive B. Forrester, Miami, Fla.
Application August 24, 1949, Serial No. 112,064
16 Claims. (Cl. 24—207)

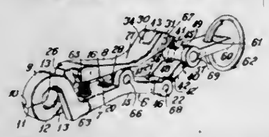
1. A shoe fastening device comprising a pair of wing members adapted to be secured to the flaps of a shoe, a resilient slide wire bent in the

general shape of a V having the outer ends of its arms secured to said members, respectively, a bar having one end pivoted to the other end of said wire, a rigid arm pivoted at one end to said bar, a hook attached to the other end of said rigid



arm, said hook being adapted to slidably engage the arms of said wire for opening and closing the assembly, means for holding the assembly in closed position, and means for adjusting said hook relative to said rigid arm.

2,637,088
SNAPHOOK
Harry G. Foster, Mullens, W. Va.
Application December 23, 1949, Serial No. 134,747
7 Claims. (Cl. 24—234)



1. A snap hook comprising a pair of body members pivoted together intermediate their ends, said body members lying in a substantially aligned relation, a pair of cooperating jaws carried on the ends of said body members, said jaws being in crossed cooperating relation to each other between the pivot and the ends thereof, and toggle linkage means pivotally connecting together the ends of said body members at the end thereof opposite said jaws, said toggle linkage means comprising a pair of links, each link being pivoted at one end to the end of one body member, and said links being pivoted together at their opposite ends intermediate the ends of said body members, said toggle linkage means being adapted to hold the jaws in an open position when their intermediate connection is in substantial alignment with the ends of said body members, and to urge said jaws into a closed position when said intermediate connection is moved out of alignment from the ends of said body members.

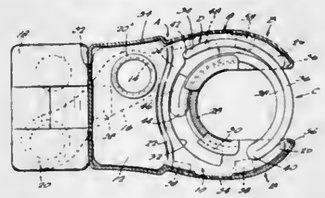
2,637,089
SPRING HOOK CLASP
Herman Kuehn, Union, and John F. Sand, Newark, N. J., assignors to Gemex Company, Union, N. J., a corporation of New Jersey
Application March 8, 1950, Serial No. 148,352
3 Claims. (Cl. 24—234)

1. A spring hook clasp particularly for use on the ends of a wrist watch bracelet to connect the bracelet and a wrist watch, comprising a cap having means at one end for attaching it to one end of a bracelet and flanges at its sides, a U-shaped member carried by and under the cap with its arms extending down from the cap, a spring housing part fitted in the cap having a web provided with a pair of apertures receiving the arms of the U-shaped member and having flanges at its sides, the base of the U-shaped member being located between the web and the cap and the U-shaped member being arranged with one arm toward said one end of the cap and its other arm toward the other and outer end of the cap, a pair of clasp hooks pivoted at their inner ends on the said other arm of the U-shaped member and extending out from under the cap, each hook having a tongue at its outer end projecting toward the other hook, the tongues of the two hooks overlapping in a closed



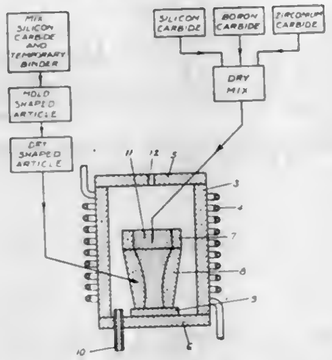
position of the hooks, each hook having a shoulder at its inner end with the shoulders of the two hooks on opposite sides of the said other arm, a pair of helical coiled compression springs in said housing part reacting from abutments at the end of said housing part toward the said one end of the cap against the respective shoulders to bias the hooks toward one another to closed position, the springs being disposed on opposite sides of the inner arm of the U-shaped member, and a cover for said housing part retained in assembled relation with the cap by the side flanges on the cap and enclosing the springs.

2,637,090
END CLASP FOR BRACELETS OR THE LIKE
Edward Kupchick, Brooklyn, N. Y., assignor to Benrus Watch Company, Inc., New York, N. Y., a corporation of New York
Application November 8, 1950, Serial No. 194,631
17 Claims. (Cl. 24—240)



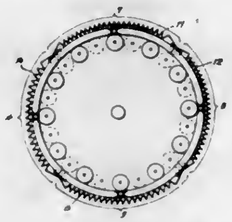
1. A clasp comprising a housing, a retaining member secured therein and movable between a housed position in said housing and a grasping position out of said housing, said housing having a slot therethrough in the direction of motion of said member, said slot having a widened part at a position therealong corresponding to one of said positions of said retaining member, said retaining member comprising resilient material having adjacent portions connected by a reverse bend, the inherent resilience of said member causing one of said adjacent portions to separate from the other, said member being oriented in said housing so that the direction of said separation is in the direction of widening of said slot, and an element secured to and movable with said one of said portions, extending out through said slot so as to be accessible from the outside of said housing, and being engageable in said widened slot part when said member is in one of said positions so as to releasably hold said member in said position.

2,637,091
BONDED SILICON CARBIDE ARTICLES AND METHOD OF MAKING SAME
Kenneth C. Nicholson, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application March 26, 1949, Serial No. 83,767
12 Claims. (Cl. 25—157)



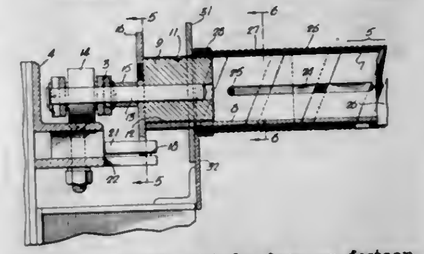
7. The method of making a bonded silicon carbide refractory article which comprises forming an article of the desired shape from a mixture comprising granular silicon carbide and a small amount of a temporary binder, drying said shaped article, and firing said article in an inert atmosphere to a temperature above 2000° C. while the article is in contact with a mixture of zirconium carbide, silicon carbide and boron carbide.

2,637,092
DRIVE FOR BRUSHING CYLINDERS OR ROUGH ROLLS IN TEASELING MACHINES
Peter Kohl, Munchen-Gladbach, Germany, assignor to A. Monforts, Munchen-Gladbach, Germany, a firm
Application October 9, 1950, Serial No. 189,184
In Germany October 19, 1949
4 Claims. (Cl. 26—35)



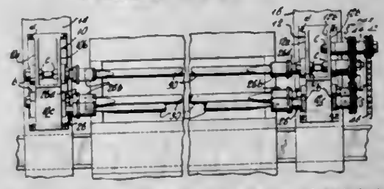
1. A drive of a brushing cylinder in teaseling machines comprising in combination with a brushing cylinder supporting a plurality of brushing shafts and an axle supporting said cylinder, driving cones arranged on said brushing shafts, a friction ring comprising a plurality of segments within which the driving cones roll, and spring means connecting said segments with each other and adapted to uniformly press said segments against said driving cones.

2,637,093
LOOP DRIER GIRT
Alpheus O. Hurxthal, Philadelphia, Pa., assignor to Proctor and Schwartz, Inc., a corporation of Pennsylvania
Application May 12, 1952, Serial No. 287,437
8 Claims. (Cl. 26—68)



1. In an expansible girt for loop or festoon dryers comprising a central girt supporting member, sleeves slidably mounted exteriorly on said girt supporting member adjacent opposite ends thereof for coaxial movement between predetermined inner and outer limit positions, an expansible-contractible member circumscribing said central girt supporting member and having its opposite ends anchored respectively on said sleeves, and a braided tubular heat resistant cover closely surrounding said expansible-contractible member and adapted to expand and contract in conjunction with said expansible-contractible member.

2,637,094
APPARATUS FOR SPLITTING WARP SHEETS AND THE LIKE
John R. Andrews, Jr., Uxbridge, Mass., assignor to Bachmann Uxbridge Worsted Co., Inc., Uxbridge, Mass., a corporation of Massachusetts
Application October 20, 1949, Serial No. 122,483
5 Claims. (Cl. 28—40)



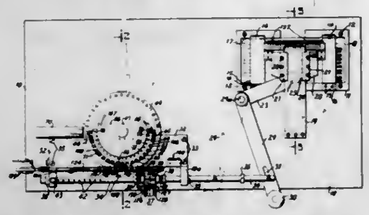
1. Apparatus for splitting a warp sheet into a plurality of sheets comprising a rod, rotatable spindles for receiving the ends of said rod, and means for rotating said spindles one of said spindles having a slot extending across its face diametrically to permit insertion of a rod end through the side of the spindle, and means for locking said rod end in said spindle.

2,637,095
BACKSIZED CARPET
Emory P. Mersereau, Thornwood, N. Y., assignor to Alexander Smith, Incorporated, White Plains, N. Y., a corporation of New York
No Drawing. Application April 6, 1950, Serial No. 154,444
1 Claim. (Cl. 28—80)

A carpet comprising tufts secured in a textile fabric backing, said backing being coated with a composition consisting essentially by weight on a dry solids basis of 28% to 67% of 70 styrene-

30 butadiene copolymer and 28.7% to 65% of 85 styrene–15 butadiene copolymer, said composition improving the tuft bind to said backing.

2,637,096
RECORD CONTROLLED ASSEMBLY JIG
Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 21, 1948, Serial No. 50,416
2 Claims. (Cl. 29—33)



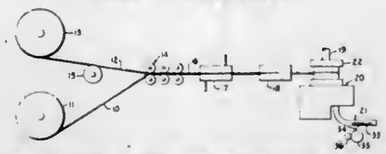
1. An assembly jig for wiring selector switch levels to correspond to the indicia of a record card including a support formed to receive a selector switch level having a plurality of terminals extending from its periphery; a cap engageable with and disengageable from said support for fixedly positioning said level; a wire holder comprising a plurality of wire holding members mounted in spaced relation to said support, each of said wire holding members corresponding to an index position on said card; a unitary control operable to cause said members to clamp and release wire conductors; an electric glow device mounted adjacent to each terminal of the selector switch level, each said device comprising a bulb connected to be responsive to indicia in one column of said card; a shaft slidably mounted in juxtaposition with said wire holder; detent means for retaining said shaft in any of a plurality of positions corresponding to the columnar positions on the card; a conductive plate for receiving the record card; resilient means for retaining the card in a stationary position on said plate; a plurality of brushes corresponding, respectively, to the columnar positions on said record card and slidably mounted to scan the card; a circuit connection from each brush to the corresponding glow device to energize said device when that brush contacts the conductive plate thereby completing an electrical circuit including said glow device; and a bell crank for imparting translatory motion to said brushes and said shaft.

2,637,097
REMOVABLE TOOTH FILE
Benjamin Sakren, Miami, Fla.
Application November 16, 1949, Serial No. 127,701
2 Claims. (Cl. 29—79)



1. In a removable tooth file, the combination which comprises a head having a handle extended therefrom, side bars mounted in the head and extended therefrom, a centrally disposed bar also mounted in the head and extended therefrom and positioned in a plane extended through the side bars, a bracket positioned on the outer ends of the bars, a removable adjusting screw extended through the head and bracket having clamping means thereon, a plurality of cup shaped cutting elements having diagonally disposed sides and ends with hubs on the backs thereof positioned on the bars with the bars extended through hubs at the ends and also through a hub in the center of each of the cutters, and spacing elements positioned on the rods between the cutters.

2,637,098
METHOD OF FORMING COMMUTATORS
Herman W. Stein, Canton, and John D. Risher, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application May 16, 1949, Serial No. 93,886
1 Claim. (Cl. 29—155.54)

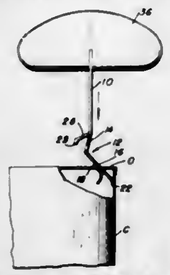


The method of forming a commutator comprising, bringing a thin narrow wedge shaped strip of copper into face to face juxtaposition with a thinner strip of insulating material of uniform thickness and of the same width as the copper strip, permanently adhering said strips together to form a thin narrow laminated wedge shaped strip, punching dovetail notches in the thin edge of said laminated strip and severing said strip midway of the length of said notches to form laminated segments in the form of wedge shaped segments of copper having a dovetail projection on its thin edge midway of the length thereof and a thin segment of insulating material of the same shape and size permanently adhered to one face thereof and assembling said segments into a ring with the thick edges outwardly and the insulating segments all facing in the same direction as said segments are severed from said laminated strip.

2,637,099

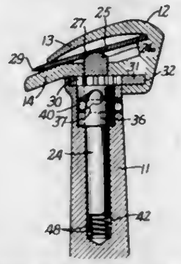
WITHDRAWN

2,637,100
PUNCH FOR RIMLESS CANS
Frazier O. Brooks, Ca-Vel, N. C.
Application May 21, 1952, Serial No. 289,165
4 Claims. (Cl. 30—16)



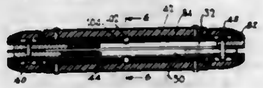
1. A can punch comprising an elongated flat shank terminating in an offset end portion having an outer limb, said outer limb being pointed and having beveled side edges, the extremity of said outer limb being bent to a position parallel to said shank and forming a penetrating element that will permit an aperture to be punched in a can through which the beveled side edges of the outer limb will pass.

2,637,101
SAFETY RAZOR
Bertram S. Cutler, Possum Hill, N. J., assignor of one-fourth to Robert L. Hubbard, Florham Park, N. J.
Application December 30, 1949, Serial No. 135,959
4 Claims. (Cl. 30—40).



1. An injector safety razor comprising a handle member, a shaving head supported by the handle member, said shaving head having an upper and lower member adapted to support a razor blade therebetween, movable clamping means operable by engagement with a projecting member of a blade magazine, a slot in said razor adapted to receive a projecting-member of a blade magazine, said movable clamping means comprising a clamping head substantially parallel with the cutting edge of the razor blade held thereby and a rigid spindle attached to the clamping head, said spindle being movable in said handle and connected to means operable by said magazine projecting-member, whereby insertion of a blade magazine releases said spindle and clamping head from engagement with a blade and whereby removal of a blade magazine places the clamping head of said spindle in a flexing clamping relationship with a blade in the razor.

2,637,102
KNIFE
Henry Vossler, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island
Application January 13, 1948, Serial No. 2,079
9 Claims. (Cl. 30—155)



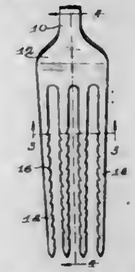
1. A pre-assembled ornamental cover unit for a knife frame having an outer lining plate, said unit comprising a pair of separate bolsters, an elongated, thick, preformed, ornamental cover plate, whose longitudinal edges are adapted to be arranged coextensively with the corresponding longitudinal edges of the knife frame, each of said bolsters having integral attaching means which positively and firmly holds said bolster to said cover plate, a stiffening member beneath said cover plate and adapted to be disposed on the outer surface of said lining plate, said stiffening member having a portion extending between said bolsters, and means to secure said stiffening member to said cover plate.

2,637,103
ELECTRIC SHEARS
Ray O. Hooker, San Fernando, Calif.
Application February 15, 1952, Serial No. 271,803
8 Claims. (Cl. 30—228)



1. A power operated shears comprising a hollow handle, an electric motor contained therein having a rotary driven shaft extending toward one end of the housing, a stationary shear blade secured to and projecting from said housing end, a movable shear blade pivotally mounted in and extending from said housing end having a cutting edge movable back and forth across the cutting edge of the stationary shear blade when the movable shear blade is rocked in opposite directions about its pivot, a cam having an eccentric portion slidably and non-turnably mounted on the motor shaft for rotation therewith, said movable blade having an extension engageable by the cam eccentric when revolved for swinging the movable blade away from the stationary blade to an open position, circuit controlling means mounted in the housing for energizing and de-energizing the electric motor, a cam actuator pivotally mounted in the housing and connected to the cam for moving the cam toward and away from the movable blade extension, a manually actuated control unit connected to the circuit controlling means and the cam actuator for initially moving the circuit control means to a circuit closing position and for thereafter moving the cam actuator to displace the cam to an operative position when the manual control means is displaced inwardly of the housing, and spring means bearing against the movable blade extension and urging said movable blade toward a closed position.

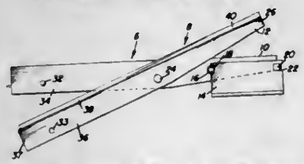
2,637,104
FORK CONSTRUCTION
Rene Samson, Westmount, Quebec, Canada
Application June 22, 1950, Serial No. 169,571
2 Claims. (Cl. 30—322)



1. A table fork useful for eating cooked spaghetti and having substantially the general structure of a conventional table fork including an elongated handle and a shank from which extend at least three substantially equally spaced

apart blunt-ended prongs all of substantially the same length having outer ends remote from the handle, being two outer prongs and at least one inner prong, the outer prongs having outer side surfaces which are smooth and blunt inner side surfaces provided with a plurality of re-entrant notches, said inner prong having both side surfaces provided with a plurality of spaced apart re-entrant notches, each notch being shaped so as to provide a tooth having a face substantially perpendicular to the axis of the fork, having a base at the inner part of the notch and a face oblique to the axis of the fork extending from said base to the side surface of the prong in a direction towards the handle, each tooth having a blunt outer face parallel to the side surface of its prong, each prong being substantially symmetrical in cross section whereby its thickness is about the same at its inner and outer sides, the prongs being so spaced apart as to allow the entry of the prongs into a hank of spaghetti combwise with the strands of spaghetti between the prongs, the oblique faces of said teeth being adapted to allow the inward sliding of the spaghetti between the prongs without hindrance, said substantially perpendicular faces being adapted to catch the strands of spaghetti and to hinder their sliding outward off said prongs, and the notches being spaced apart effectively to engage a plurality of strands of spaghetti at once and thus to hinder their sliding from the fork, said notches extending from adjacent the free ends of the prongs a major portion of the length thereof.

2,637,105
BLADE HOLDER
Aaron M. Forst, Los Angeles, Calif., assignor of one-half to Bernard Forst
Application March 10, 1950, Serial No. 148,926
1 Claim. (Cl. 30—330)



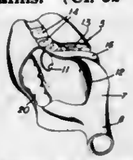
A holder and handle for a single edged comparatively rigid safety razor blade which latter has keeper notches at its respective transverse ends, comprising a pair of similar complemental lever units each of flat form, said lever units being superimposed one upon the other and pivotally connected with each other intermediate their respective ends, corresponding ends of said lever units being gradually narrowed from their central portions toward their end portions and providing a pair of blade accommodating jaws, the opposite end portions of said lever units cooperating and providing handle means, the free end of the jaw of one unit having a relatively narrow laterally directed extension with a return bent terminal providing a catch forming hook adapted to fit in the keeper notch in the adjacent outer end of the blade which is to be held, and also to releasably engage the corresponding end of the jaw of the remaining lever unit, the interior surface of said first named jaw having a boss in line with said hook and situated in respect to the hook to engage itself in the keeper notch at the adjacent inner end of said blade, the opposite end of the second named lever unit being provided with a return bend providing a second catch forming hook and the adjacent end of the first named lever unit being releasably engaged in said last named catch forming hook, and cooperating detent means provided between the respective lever units and situated in close proximity to the second named catch forming hook and serving to retain said lever units against separable swinging relative to each other in respect to the pivotal connection in order to simultaneously render the respective catch-hooks effective.

2,637,106
SALIVA EJECTOR
George A. Otis, Seattle, Wash.
Application November 13, 1951, Serial No. 256,075
5 Claims. (Cl. 32—33)



1. A saliva ejector, comprising: a metal tube having a discharge end adapted for attachment of a suction tube thereto and having a suction end, said tube having a question-mark like shape with said discharge and suction ends substantially axially aligned; said suction end being tapered; a removable discharge tip positioned on said tapered suction end, said discharge tip having a hollow, substantially cylindrical form, said discharge tip having a longitudinal rib on its inner surface and being formed of material having resilient properties so that said tip may be distorted in the area of contact between said rib and said tapered suction end for securing said tip thereon; a disc-like pad of very resilient, sponge-like material positioned on an end of said discharge tip, said pad having a diameter larger than the diameter of said tip; said discharge tip having a series of longitudinal slots of very narrow width extending from adjacent said pad and arranged radially about the axis of said tip.

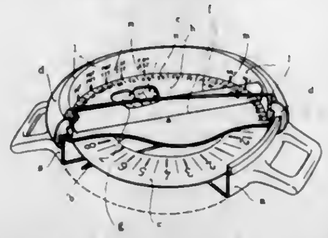
2,637,107
DENTAL ISOLATION TRAY FOR USE WITH AIR ABRASIVE TECHNIQUES
Bert J. Daigle, Sulphur, La., assignor of one sixty-fourth to Ellis Woody Thompson, Calcasieu Parish, La.
Application May 20, 1952, Serial No. 288,863
9 Claims. (Cl. 32—35)



1. A tooth isolation tray comprising a hollow body adapted for placing in the mouth of a person

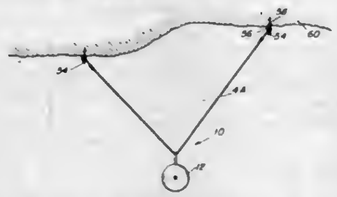
and having an opening in a wall of the body adapted to receive a tooth in a position projecting into the body and isolated from the remaining teeth, an entrance for the body providing access to the isolated tooth, and an exhaust opening in the body.

2,637,108
ADJUSTABLE AND MOVABLE SUNDIAL
Erichs A. Viesturs, York, Pa.
Application May 31, 1950, Serial No. 165,205
In Germany October 1, 1948
1 Claim. (Cl. 33—62)



An adjustable sundial comprising a casing, a turnable upper part on said casing and a bottom on said upper part, a transparent cover supported by said upper part for rotation relative thereto, a magnetic needle pivoted centrally in said casing, a ring having a time scale marked thereon disposed on said magnetic needle, said bottom having an opening and an index thereat for permitting the reading of the time on said time scale ring, a shadow indicator fixed on said turnable cover on top of the casing, said shadow indicator consisting of two elongate thread-like elements the shadows of which should coincide when the time is read through said opening, means for correcting for the difference between the geographical meridian of the place of reading and the meridian of the corresponding time, including standard and daylight saving times, which means of correction comprises marks on the bottom of the upper casing part for the geographical meridian, and on the cover for the meridian of the special time.

2,637,109
SIGHT STRING
William Lee Willis, Pruden, Tenn.
Application January 8, 1951, Serial No. 204,995
2 Claims. (Cl. 33—74)



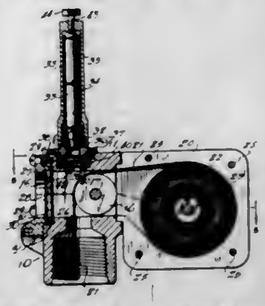
1. A sighting target comprising a casing, a drum rotatable in said casing, a flexible loop connected to said drum and windable thereon, a suspension string slidable through the loop, means on the ends of the suspension string for securing same to a support, and means for actuating the drum for winding the loop and the suspension string thereon.

2,637,110
DRAFTING INSTRUMENT
Harris S. Gilbertson, Tehachapi, Calif.
Application June 23, 1950, Serial No. 169,838
1 Claim. (Cl. 33—104)



A drafting instrument comprising a flat sheet of material having first and second straight edges disposed perpendicular to each other and a stepped edge whose risers are equal in length and which risers parallel the first edge of said sheet of material, each step of said stepped edge including two relatively perpendicular edges of equal length, scales on the sheet of material along each edge of each step, additional similar scales on the sheet of material along the first and second edges, the scales along one edge of each step being similar in unit to the units of the scales along the first and second edges, and the scales along the other edges of the steps being increments different from each other and also different from the units along the first and second edges of the flat sheet of material.

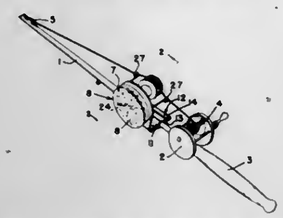
2,637,111
TANK GAUGING DEVICE
Pete McDuff, Fort Worth, Tex.
Application March 27, 1947, Serial No. 737,630
1 Claim. (Cl. 33—126.5)



In a gauging device for oil tanks for installation in a tank head having a gate valve therein and a tube threadedly secured in the upper end of said valve, in combination, a rectangular housing formed with an interiorly threaded cylindrical portion for securement to the upper end of said tube, the said housing defining a horizontal passage therethrough, a glazed closure for one end of said passage, a detachable casing secured to said housing having a chamber therein open to said passage, a reel rotatably mounted in said chamber having a graduated tape there-

on extending through said passage, a roller in said passage supporting said tape to depend concentrically through said tube, a weight carried by the free end of said tape and a crank externally of said detachable casing for rotating said reel to move said tape before said glazed opening.

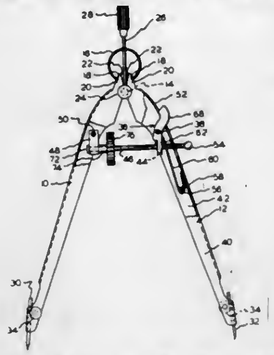
2,637,112
FISHING LINE METER
Leon L. La Fontaine, Spokane, Wash., and Frank H. Neuman, Coeur d'Alene, Idaho
Application June 29, 1950, Serial No. 171,002
1 Claim. (Cl. 33—129)



In a fishing line meter having a pulley adapted to operate an indicator by gearing for measuring fishing line, a casing; a transparent cap closing a side of the casing; a frame in said casing and adapted to pivotally support said gearing, indicator and pulley; a bracket secured to said casing by means of metal screws and having a portion bent away from the casing and forming a stationary jaw of a clamp; said screws extending through said casing and securing said frame therein; a movable jaw under the stationary jaw having an edge portion bent to form a lip disposed in overlapping relation to the stationary jaw and tiltably mounting the movable jaw; a bolt passing through said jaws; a nut for said bolt; a tongue cut from the stationary jaw and engaging an edge face of the nut to prevent displacement of the nut when the bolt is removed; said nut bearing against said bracket to prevent turning of the nut and consequent accidental movement of the movable jaw away from the stationary jaw and out of gripping engagement with a portion of a fishing rod passing between the jaws; and guides carried by said bracket and engageable with a fishing line to hold a portion of the line between the guides in driving contact with the pulley.

2,637,113
BOW COMPASS
Henry A. Kroenlein, Los Angeles, Calif.
Application May 11, 1949, Serial No. 92,618
3 Claims. (Cl. 33—154)

1. An instrument in the form of a bow compass, dividers or calipers, said instrument comprising a pair of leg members pivotally connected together at one end, spring means operatively associated with said leg members to constantly tend to urge the free ends thereof apart, a smooth elongated rod member, means pivotally mounting said rod member at one end on one leg member intermediate its ends, the other leg member having a guide opening, a pivoted canting plate member on said last mentioned leg member, said canting plate member having an opening through which the opposite end of said rod member is slidably guided with clearance when said plate member is moved to a relatively straightened position, additional spring means stressing said canting plate member normally to its canted position in which said last mentioned leg member is held locked against outward movement with respect to the other leg member but is free to be moved inwards with respect thereto, said canting plate member being accessible for actuation at will to move it to its relatively straightened po-



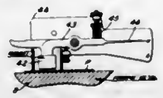
sition against the action of said additional spring means, whereby to allow said first mentioned spring means to open the instrument legs with a quick action, and means for rotating said rod in said plate to cause a creeping action between said rod and plate for a fine adjustment of said leg member.

2,637,114
TEMPLET
Michael A. McHugh, Pittsburgh, Pa.
Application January 14, 1950, Serial No. 138,590
2 Claims. (Cl. 33—174)



1. A templet for laying out trunk air lines for heating systems in dwellings and the like comprising a relatively long strip of substantial width adapted to be coiled, said strip having rows of longitudinally extending transversely spaced slots for receiving markers, and markers on said strip of different shapes and sizes having means for attaching to the slots in said strip, said markers being arranged on said strip to designate the points of connection of the branch lines to the trunk line and the shape to take off of the branch lines from the trunk line.

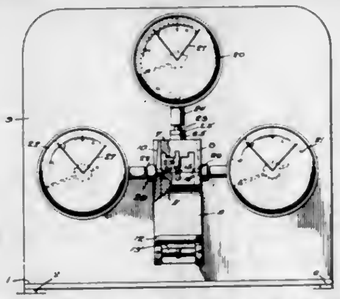
2,637,115
MAGNETIC CALIPERING DEVICE
George F. Watson, Racine, Wis., assignor to The Christensen Machine Company, Racine, Wis., a corporation of Wisconsin
Application April 3, 1950, Serial No. 153,520
3 Claims. (Cl. 33—174)



1. In a magnetic caliper for non-magnetic material, a magnet couple comprising an electromagnetized element and an armature element magnetically attracted toward one another, said elements having feeler surfaces engaging directly

opposed faces of the material being calipered, said engagement being effected by the magnetic attraction of said elements, and one of said elements being movable toward and away from the other, support means for said elements, biasing means operably connected with and continuously applying a yieldable force upon the movable element, said force being applied in a direction tending to further separate said elements and to disengage said movable element from said material, the biasing force and the force of magnetic attraction being so proportioned that the movable element is held in engagement with the surface of said material as long as the thickness of the material interposed between said feeler surfaces is less than a critical distance at which the biasing force overpowers the force of magnetic attraction between the elements and said movable element is moved out of engagement with the material when material having a thickness at least as great as said critical distance is interposed between said feeler surfaces.

2,637,116
RAZOR BLADE GAUGE AND METHOD
Albert Wiebe, Brooklyn, N. Y.
Application April 16, 1945, Serial No. 588,508
4 Claims. (Cl. 33—174)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A measuring device for two-edge safety razor blades, including an anvil, an inverted U-shaped saddle mounted for vertical sliding movement on the anvil, a pair of opposed contact-pin type gauges mounted adjacent the anvil, means on the saddle for positioning a razor blade on the anvil, and mutually cooperating cam means on the saddle and pins for controlling the movements of the pins toward and away from said blade as the saddle is reciprocated.

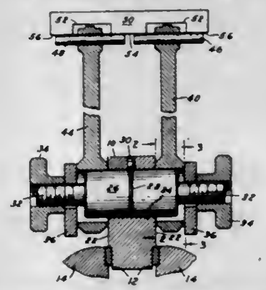
2,637,117
TUBING CALIPERING DEVICE
John V. Fredd, Dallas, Tex., assignor to Otis Pressure Control, Inc., Dallas, Tex., a corporation of Delaware
Original application June 9, 1949, Serial No. 97,940. Divided and this application September 12, 1950, Serial No. 184,497
7 Claims. (Cl. 33—178)

4. In an internal tube wall calipering and recording device adapted to be passaged through an extended length of tubing and comprising an elongated housing carrying calipering means mounted for lateral movement between said housing and the tube wall being calipered, the improvement which comprises a fixed cylindrical recorder member mounted longitudinally within the housing, a lead screw positioned longitudinally within said recorder member and fixed against rotation, said lead screw being arranged for reciprocal longitudinal movement in response to lateral movement of said calipering means, a stylus member mounted on said lead screw for



scribing engagement with said recorder member, a rotary drive rail engaging said stylus member, driving means carried by the housing for frictional contact with the tube wall during passage of the device through the tubing, and transmission means between said driving means and said drive rail.

2,637,118
CONNECTING ROD ALIGNER
George M. Graham, Detroit, Mich., assignor to Kent-Moore Organization, Inc., Detroit, Mich., a corporation of Michigan
Application July 9, 1949, Serial No. 103,839
6 Claims. (Cl. 33—180)



1. In a connecting rod alignment checking and correcting fixture, a fixed body having a flat machined finished surface on one side thereof and a bore opening out through said flat surface in axial perpendicular relation thereto, a cylindrical arbor received in said bore, means for releasably locking said arbor in the bore such that one end section thereof projects outwardly from said flat surface a distance less than the axial dimension of the crank shaft journal end of a connecting rod for which the fixture is intended, said end section of the arbor having a reduced externally threaded stud forming an axial extension to the projecting end section of the arbor, a nut threaded on said stud, an axially movable flat side collar encircling said stud between the nut and the projecting end section of the arbor and having a radial dimension greater than that of the arbor

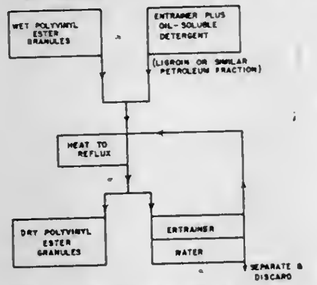
such that the collar is engageable with the crank shaft journal end of a connecting rod received over said projecting end section of the arbor, said collar having its opposite flat faces extending in parallel relationship and cooperating with the nut to clamp the crank shaft journal end of a connecting rod on the projecting end section of the arbor against said flat machined finished surface of the body.

2,637,119

PROCESS FOR DRYING GRANULAR VINYL ESTER POLYMERS

Leo M. Germain, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada

Application June 27, 1950, Serial No. 170,708
3 Claims. (Cl. 34—9)



1. A process for removing absorbed water from granular polymers of vinyl acetate, comprising (1) boiling a mixture of the polymer granules and a liquid entrainer which boils under reflux below 100° C., which is not miscible with water, and is not a solvent for the polymer, together with a small proportion of an oil-soluble detergent, (2) condensing the so generated vapors, removing the entrained water, and returning the water-free entraining agent to the boiling mixture, and (3) continuing the boiling until a substantial proportion of the absorbed water contained in the granular polymers has been removed.

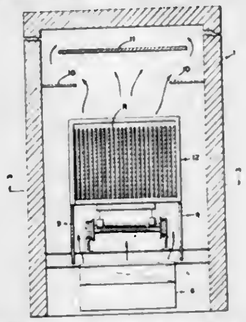
2,637,120

APPARATUS AND PROCESS FOR BAKING SHEET MATERIAL

Frank G. Lesniak, Laurel, Miss., and Leslie G. Janett, Chicago, Ill., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware

Application April 23, 1948, Serial No. 22,928
9 Claims. (Cl. 34—24)

1. Method of baking impregnated lignocellulose fibrous hardboards which comprises charging a kiln with said boards such that the flat surfaces thereof are exposed and uniformly spaced apart, passing heated air under pressure uniformly into the kiln through parallel elongated openings positioned at right angles to the flat surfaces and to the longitudinal edges of the boards and through an area within the kiln below the boards substantially equal to the area defined by the length and width of the charge of boards, passing the air uniformly over the flat surfaces of the boards, passing the air uniformly within the kiln above the boards through an abruptly restricted area substantially equal to the width of the charge into an unrestricted area and then through a second and more abruptly restricted area into a second unrestricted area, and finally withdrawing the air from the kiln to
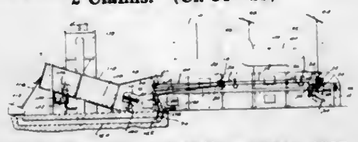


be reheated and recirculated, thereby obtaining baked boards of substantially uniform and high physical properties.

2,637,121

PROCESS FOR TREATING FOLIAGE CROPS AND THE LIKE

Frank W. Steere, Waterford Township, Oakland County, Mich.

Application November 4, 1947, Serial No. 783,944
2 Claims. (Cl. 34—25)



1. In a method of treating green crop containing at least 35 per cent water, the steps of artificially drying the crop by spreading it in a layer averaging from about .50 to 1.0 pounds per square foot (dry weight) and first subjecting it to the action of gases containing appreciable quantities of water vapor and at a temperature in excess of 212° F. for a period of from 60 to 150 seconds and thereafter reducing the water content of the crop to not more than 12 per cent within a period of from 40 to 100 seconds by the action of a moving current of gases at a temperature from 250° to 300° F. and having a dew point less than 180° F., the rate of flow of gas through the crop in the second drying period being from 400 to 500 cubic feet of gas per minute per square foot of said layer.

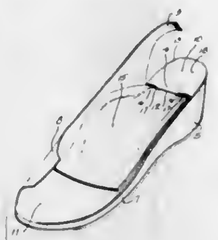
2,637,122

POCKETED HEEL AND DETACHABLE ARCH SUPPORT

Julius Baer, Beverly Hills, Calif.

Application October 3, 1951, Serial No. 249,471
3 Claims. (Cl. 36—8.5)

1. In a shoe, the combination with a platform having a sock lining including mid and heel portions, of a flexible heel pad overlying and substantially co-extensive with said heel portion, means attaching the side and rear margins of said pad to the platform and lining, the front margin of the pad being free to provide a forwardly opening pocket beneath the pad, a U-shaped cushion underlying the side and rear portions of the pad adjacent its said attached margins, and a detachable arch support having a centrally socketed heel portion disposed in the pocket beneath the pad and a forward portion projection from the pocket and overlying the mid portion of the lining, the socketed heel portion of the arch support underlying the position of the os



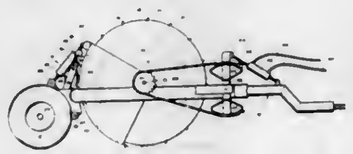
calsis bone of a wearer of the shoe whereby pressure of a wearer's foot compresses said U-shaped cushion, and holds the arch support in said pocket.

2,637,123

EARTH SCRAPER

Roscoe L. Miller, Fowler, Calif., assignor to Kenneth L. Miller, Selma, Calif.

Application April 14, 1947, Serial No. 741,167
6 Claims. (Cl. 37—9)



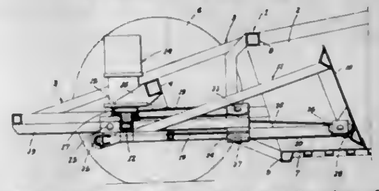
1. An earth scraper comprising a forwardly movable support frame, a shaft journaled transversely in the frame, a substantially cylindrical bowl fixedly mounted on the shaft, and having an earth receiving and discharging opening formed therein, means mounted on the frame and communicating with the shaft whereby the bowl is selectively positioned in earth receiving and earth discharging positions, disc members journaled on the shaft at each end of the bowl, vanes interconnecting the disc members near their peripheries and revolved about the bowl by rolling along the ground and rotating the disc members on the shaft, a segmentally cylindrical hood pivotally mounted on the shaft disposed rearwardly of the vanes, a scraper blade downwardly extended from the hood whereby earth encountered by the scraper is elevated by the revolving vanes in association with the hood and deposited in the bowl, means communicating between the frame and the hood limiting elevating and depressing of the hood and scraper blade borne thereby relative to the frame, support wheels pivotally mounted on the frame, and controlled extension means communicating between the hood and the wheels whereby the hood and scraper blade are raised and lowered in the frame and whereby the frame and frame borne elements of the scraper are raised and lowered relative to the ground traversed by the wheels.

2,637,124

REAR ENDGATE ACTUATING MECHANISM FOR CARRY-TYPE SCRAPERS

Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation

Application August 19, 1947, Serial No. 769,335
2 Claims. (Cl. 37—126)



1. A rear endgate actuating mechanism for a carry-type scraper which includes a bowl having the endgate supported therein for reciprocation from a normally retracted position, and a rigid frame projecting rearwardly from the bowl; said mechanism comprising a push frame projecting rearwardly from the endgate, a longitudinal rail beam in the rigid frame, a carriage on the push frame riding the rail beam, a reversible power including a cable drum, a cable wound intermediate its ends about the drum to form a pair of opposed runs leading from the drum in a forward direction, a pair of direction changing sheaves on the rigid frame ahead of the carriage, a direction changing sheave on the carriage, one run of the unit mounted on the rigid frame, the power unit cable extending between said pair of sheaves with a loop running rearward over the sheave on the carriage, means dead ending said one run on the push frame, another pair of direction changing sheaves mounted one on the rigid frame and one on the endgate, said other run passing about the sheave on the endgate, thence extending rearward to and about the one of the sheaves of said other pair, on the rigid frame, and then passing forward, and means dead ending said other run on the endgate.

2,637,125

STEAM FINISHER FOR FABRICS

Carl W. Roberts, Baxter Springs, Kans.

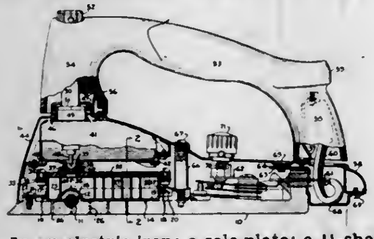
Application October 25, 1950, Serial No. 192,045
1 Claim. (Cl. 38—77)



In a steam finisher for fabrics, a steam iron having a flat, oval base provided with a plurality of steam outlet openings; an oval plate conforming to the oval contour of the base and having a flat top provided with an oval, upstanding rib and conforming to the oval contour of the plate and spaced inwardly from the peripheral edge of the plate, the top surface of the rib and the bottom surface of the base having complementary contours, said plate having a number of steam outlet openings within the confines of said rib; means for releasably attaching the plate to the iron with said base resting snugly on the rib to form a steam-tight contact, with the rib surrounding the steam outlet openings of the base, and with the plate extending outwardly beyond the base throughout the periphery thereof, said plate having a transversely convex bottom face; a pad on said bottom face of the plate; and a covering for said pad extending into over-

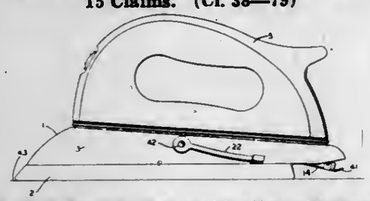
lapping relationship with the marginal edge of said flat top of the plate in spaced relationship to the oval periphery of the base.

2,637,126
ELECTRIC IRON
Richard R. Fitzsimmons, Chicago, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application March 28, 1951, Serial No. 218,044
6 Claims. (Cl. 38—77)



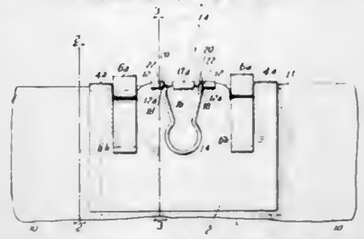
1. In an electric iron; a sole plate; a U-shaped heating element embedded therein; said sole plate having an upwardly extending land above said heating element and being formed with steam emitting openings therethrough between said land and the lateral edges thereof and a detachable steam generating and distributing vessel detachably secured to the top of said sole plate, said vessel being formed with a flash boiler in intimate heat exchange relationship with said land at the bight or nexus of said heating element, steam distributing ducts connecting said flash boiler to said steam emitting ducts, a water reservoir supported above said vessel and a valved opening formed in the bottom of said reservoir above said flash boiler for controlling the flow of water thereto.

2,637,127
RETRACTABLE FLATIRON SUPPORTING MECHANISM
George Browning, Wilmette, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application May 27, 1947, Serial No. 750,817
15 Claims. (Cl. 38—79)



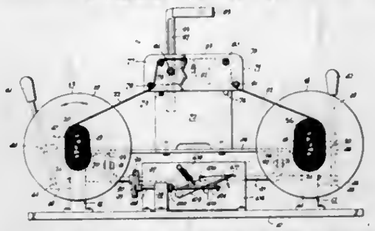
1. In a flatiron, the combination of supporting means associated with the flatiron and movable with relation thereto between a position for supporting the flatiron with its sole plate removed from the ironing position and a retracted position, and actuator means associated with the flatiron and movable into engagement with the surface on which the flatiron is adapted to rest, such engagement being effected by bodily movement of the flatiron, said actuator means coacting with the supporting means to automatically cause the supporting means to be returned to the retracted position when the flatiron is bodily moved to withdraw said actuator means from said engagement.

2,637,128
MAP HOLDER
William L. Weeks, Shawsville, Va.
Application August 20, 1952, Serial No. 305,355
4 Claims. (Cl. 40—13)



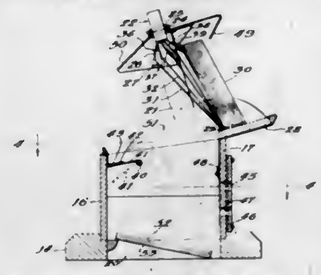
3. A map holder or the like comprising a base plate, a reversely curved resilient clip carried by one edge of the base plate and bent around to press toward one face of the base plate, a second reversely curved resilient clip carried by the same edge of the base plate and bent around to press toward the opposite face of the base plate, one of said clips being adapted to fasten the map holder to a motor vehicle sun shield and the other being adapted to hold a map against one side of the base plate, a clamp for detachably holding a folded portion of a map against the map side of the base plate, said clamp being pivotally mounted on the same edge of the base plate which carries said resilient clips, whereby lifting said pivoted clamp will permit a map to be unfolded while one portion thereof is held by said map holding clips.

2,637,129
TAPE OR WEB READING DEVICE
Ernest Congdon, Upper Darby, Pa.
Application March 25, 1949, Serial No. 83,450
6 Claims. (Cl. 40—31)



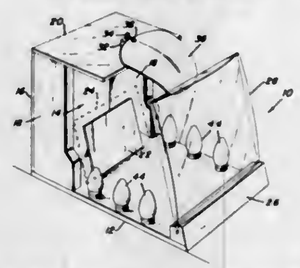
1. Apparatus for enabling easy and rapid visual observation of a marked tape or web, comprising a pair of spaced rotatable reels for supporting the tape, each of said reels including a disk portion, means including an electric motor for driving one of said reels to cause movement of said tape through a reading position, magnifying means at the reading location, a switching and speed controlling device connected to said motor, a pair of brake wheels engageable respectively with the disk portions of said reels for quickly stopping said reels, a manual member for actuating said device, means normally maintaining said member in a position to establish a circuit-opening condition of said device, and means interconnecting said brake wheels with said member to effect engagement of said wheels with said disk portions when said member is in said position and to effect disengagement of said wheels from said disk portions when said member is moved from said position.

2,637,130
TACHISTOSCOPE
Vincent M. O'Flaherty, Milwaukee, Wis., assignor to Richard J. Paniener, Milwaukee, Wis.
Application October 3, 1949, Serial No. 119,250
9 Claims. (Cl. 40—67)



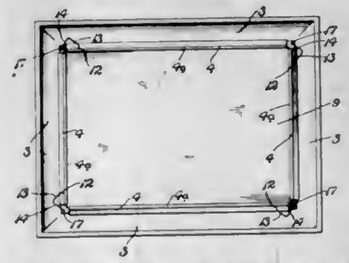
1. A tachistoscope comprising a card receptacle for holding a stack of cards and forming an air pocket, means for engaging a card at a point near one edge thereof so as to constitute momentarily the sole support for said card, said means comprising fulcrum means disposed in the upper portion of said card receptacle and above said stack, and means, including a card support, for positioning a card in a substantially horizontal position overlying said fulcrum so that the movement of said card about said fulcrum is retarded by the air in said air pocket, the said card receptacle being disposed forwardly and beneath said card support so that the surface of said card when overlying said fulcrum, is exposed momentarily to the view of the observer.

2,637,131
DISPLAY APPARATUS
Ole B. Paulson, Belt, Mont.
Application July 12, 1951, Serial No. 236,365
1 Claim. (Cl. 40—130)



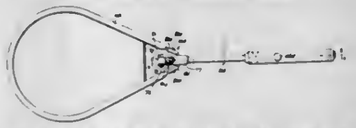
In a display apparatus, the combination of a flat base plate having front and rear ends, a vertical back wall provided at the rear end of said base plate, a pair of side walls secured to side edges of the base plate and of the back wall, front edges of said side walls being spaced rearwardly from the front end of the base plate, a top wall secured to top edges of the back wall and side walls and having an overhanging front portion projecting beyond the front edges of the side walls but spaced rearwardly from the front end of the base plate, an easel positioned on the base plate under the overhanging portion of said top wall and adapted to support an article to be displayed, a transverse rail provided at the front end edge of the base plate and formed in the top thereof with a horizontal groove, a lens mounted in said groove and extending upwardly and rearwardly from said rail, the upper edge of said lens being spaced forwardly from the front edge of said top wall, a switch mounted on the upper surface of the front edge portion of the top wall and including a lamp socket, a lamp provided in said socket and projecting forwardly therefrom, and an arcuate reflector secured to said switch above said lamp and having a downturned forward portion disposed adjacent the upper edge of said lens, whereby to direct light rays from the lamp on said easel.

2,637,132
TRANSPARENCY VIEWER
Laurence C. Helms, Travis R. Helms, and Martin Browneye, Grand Rapids, Mich., assignors to Helms Products, Inc., Grand Rapids, Mich., a corporation of Michigan
Application May 1, 1950, Serial No. 159,166
5 Claims. (Cl. 40—156)



5. In a mounting for a rectangular, flexible sheet member, having a frame surrounding a rectangular opening across which said sheet member is to be placed, the improvement comprising, an elongated fixture adjacent each side and end of said opening back of the frame, said frame at each side and end of said opening having a rearwardly and outwardly turned lip, and each fixture having a substantially Z-cross section, including a channel, open at its inner side, a side of which enters the adjacent lip on the frame, and between the sides of said channels of said fixtures the side and end portions of the sheet member are received, and each of said fixtures back of its said channel terminating in a rearwardly and outwardly extending lip, and spring members each detachably connected at one end with a corner portion of said sheet member, and engaging with and pressing inwardly under strain against the adjacent end portions of both fixtures at said corner of said sheet.

2,637,133
ANGLER'S FISH LANDING NET
Alfred C. Ross, Jackson Heights, N. Y.
Application June 16, 1949, Serial No. 99,379
14 Claims. (Cl. 43—12)



1. In a foldable fish landing net, the combination comprising a net frame, a handle, means pivotally securing said handle to said net frame, to permit said handle to be folded inwardly over said frame into inoperative position, or to be

swung outwardly into extended operative position and a latch device operable to lock said handle in extended position automatically when said handle is swung into said operative position, comprising a catch, a slide bolt having a finger piece extending laterally through the wall of the handle and carried by said handle, for engagement with said catch, said finger piece being easily accessible for manipulation into latch releasing position by the thumb of the hand grasping said handle, and a spring urging said slide bolt toward said catch.

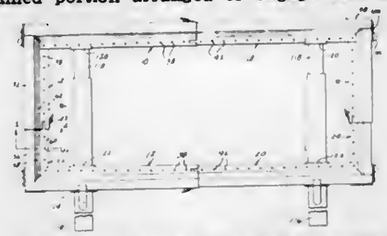
2,637,134
FISH LURE
Abraham G. Davidson, Port Angeles, Wash., assignor to Harry Covington and Eugene Caulkins
Application November 20, 1947, Serial No. 787,119
2 Claims. (Cl. 43—42.32)



1. An attractor strip for insertion in the lead line ahead of a hook carrying lure, said strip comprising a resilient flat strip, smooth surfaced to reflect light said strip having a long straight intermediate portion and having a short curved trailing end and a substantially shorter curved leading end, both ends having lead line attaching means midway between the sides thereof, the leading end of the strip being curved in one direction from the plane thereof and the trailing end being curved in the opposite direction, the curved ends having diagonal bends extending from both side edges inward and to the ends of the strip, the portion of the trailing curved end outside the diagonal bend line at one side edge being larger in area than the portion of said end outside the diagonal bend line at the other side edge thereof.

2,637,135
CURTAIN STRETCHER
Walter Karas, Detroit, Mich.
Application April 4, 1952, Serial No. 280,589
8 Claims. (Cl. 45—24)

1. A curtain stretcher comprising: a rectangular frame including a pair of parallel longitudinal members and a pair of parallel transverse members connected to and extending between the longitudinal members, each member being formed of telescopically related frame portions; a longitudinal row of nails fixedly mounted on one portion of each member; nails mounted on the other portion of each member for retraction into said other portion; cams operatively associated with the respective nails of said other portion to retract the same; and means on the first-named portion arranged to engage said cams



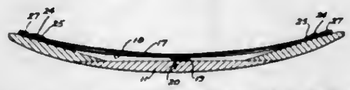
and actuate the same to the nail-retracting position thereof, responsive to telescoping of said other portion into the frame portion associated therewith.

2,637,136
ADJUSTABLE TABLE COVER
Louis S. Mark, Brooklyn, N. Y., assignor to Mark-Sambar, Inc., New York, N. Y., a corporation of New York
Application August 18, 1950, Serial No. 180,107
6 Claims. (Cl. 45—68.3)



1. A one piece reversible and adjustable table cover, comprising a substantially rectangular flexible sheet having each corner formed with a projecting fold extending outwards of one face of said sheet and substantially bisecting said corner when said sheet is in a flat position, said folds forming corner pockets into which the corners of a table may engage when said cover is placed on a table with the edge portions of said cover extending down the edge portions of said table, means for holding each of said projecting folds in formation, said projecting folds acting as size controlling elements for the maximum size of a table upon which said table cover may engage with said edge portions of said table cover extending down the edges of said table like flanges for holding the table cover from shifting on said table, a series of fastening elements at each of the corners of said sheet extending from said folds a short distance along edge portions of said sheet, and a fastening element on each of said projecting folds selectively engageable with said series of fastening elements for holding the corners of said sheet in selected folded conditions for adjusting said cover to tables of smaller sizes than said maximum size.

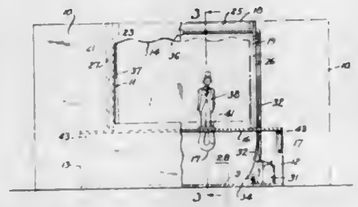
2,637,137
UPHOLSTERY
Joseph D. Flynn, Oakland, Calif.
Application July 3, 1951, Serial No. 234,928
2 Claims. (Cl. 45—138)



1. Means for applying upholstery to a concave surface which comprises a pliable backing member corresponding in outline to the surface and

to which the upholstery may be affixed, resilient ribs secured to and extending across said member, hooks carried by said ribs, eyes to receive said hooks on the concave part of said surface whereby the upholstered backing member may be deformed into the concavity and held in place therein by the resiliency of said ribs, and slidable connections between the ribs and backing member to permit them to be deformed.

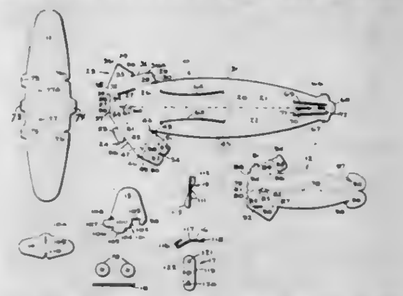
2,637,138
DOLL STAGE CONSTRUCTION
Harold C. Doran and Elizabeth Patricia Doran, Oakland, Calif.
Application February 20, 1951, Serial No. 211,894
2 Claims. (Cl. 46—13)



1. A doll stage construction for use with magnetically actuated dolls comprising; a frame including a front facing having a stage opening formed therein, a stage platform beneath said platform and supported by said frame adapted to support slidably magnetically movable dolls, said platform being formed of a relatively strong, thin, non-magnetic sheet material penetrable by relatively weak magnetic forces, the underside of said frame being supported adjacent only marginal portions of said platform whereby an operating magnet may be moved unobstructedly slidably along substantially the entire undersurface of said platform, a vertical back member and oppositely disposed vertical side members extending upwardly beyond the plane of said platform and spaced rearwardly from said stage opening defining the on-stage area of said platform, marginal portions of said platform extending laterally outwardly beyond the respective vertical planes of said side member defining off-stage platform wings, wing openings formed in said side members establishing doll passages between said wings and the on-stage area of said platform, an operating recess beneath said platform large enough to accommodate and permit movement of the hand and forearm of an operator beneath said stage platform, and an opening formed in said frame rearwardly of said front facing communicating with said operating recess, said opening being large enough to permit manual access into said operating recess.

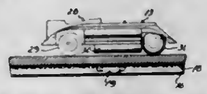
2,637,139
TOY AIRPLANE
John R. Harris, New York, N. Y.
Application February 2, 1945, Serial No. 575,919
8 Claims. (Cl. 46—17)

1. A toy aeroplane comprising, in combination with a nacelle portion and a propeller, a stylus constituting a fixed shaft for said propeller, said stylus comprising a head, a propeller supporting portion co-axial with said head, an angular portion bent from said propeller supporting portion, a substantially square hook at the end of said angular portion, the said nacelle portion having a depression the bottom of which acts as a support



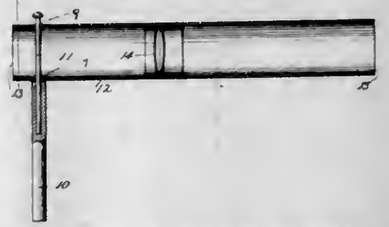
porting wall for the angular stylus portion and an anchorage for the hook.

2,637,140
TOY VEHICULAR SYSTEM
Jean M. Hoff, Evanston, Ill.
Application October 14, 1947, Serial No. 779,717
3 Claims. (Cl. 46—45)



1. A toy wheeled vehicle comprising a body, rear wheels capable of rotation carried by said body, a single spherical front support, and means including a portion of said body partially confining said support for free rotation and movement therewith.

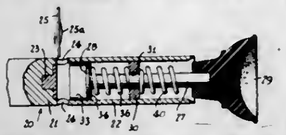
2,637,141
MUSICAL TOY
Daniele De Nisco, Brooklyn, N. Y.
Application November 25, 1949, Serial No. 129,280
2 Claims. (Cl. 46—52)



1. In a musical toy, having an elongated hollow solid wall tube open only at both ends forming orifices, and a whistle disposed in said tube and arranged transversely of said tube, said whistle having a central opening coaxial with said tube and having a sound producing element, said whistle entirely covering the cross section of said tube, the combination of said tube, with an operating supporting handle connected with said tube to one end thereof, said handle including a pivot pin pivotally attaching said handle to said end of said tube, and a hand grip portion connected to said pin for supporting said pin and aligned with said pivot pin, whereby when said tube is moved around said pivot in a plane freely in the atmosphere the orifices move in circular directions in said plane about said pivot as the common center

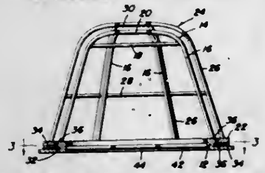
of curvature, the orifice more distant from said pivot moving faster than the orifice nearer to said pivot, and the air within said tube moving axially out of said distant orifice of said tube, drawing air through said tube to sound said whistle.

2,637,142
DETONATING TOY DART
Julian Seth Kahn, New York, N. Y.
Application December 12, 1949, Serial No. 132,452
5 Claims. (Cl. 46—200)



1. A detonating toy dart of the character described, comprising a body member, a head mounted for movement relative to the body member, a seat for an explosive cap carried by the body member, a firing pin carried by the head and pointed in the direction of the seat, a cocking spring connected to the firing pin and yieldingly maintaining it in spaced relation to the seat, a firing chamber movably mounted on the firing pin, and a second spring which engages the firing chamber and yieldingly holds it against the seat.

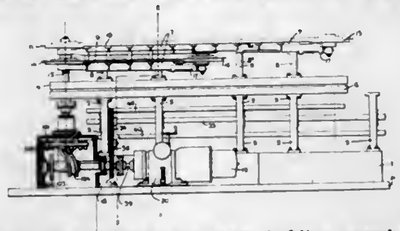
2,637,143
ADJUSTABLE FROG
Roy L. Reynolds, Memphis, Tenn., and Susie Campbell, Fordyce, Ark.
Application June 14, 1949, Serial No. 98,986
2 Claims. (Cl. 47—41)



1. An article holder comprising a base having an upstanding annular portion thereon, a rotatable annulus slidably seated on the base and slidably embracing said annular portion, a pair of reticular dome members, one of said members being secured to the annular portion and the other member being secured to the annulus with said members being in nested relation, and coacting means on said annular portion and the annulus for rotatably anchoring the latter on the former and for positively limiting rotation of said annulus in opposite directions.

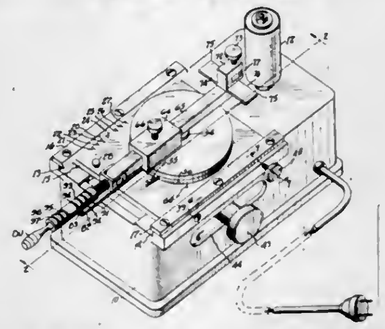
2,637,144
AUTOMATIC LAMP STEM FABRICATING APPARATUS
Roland M. Gardner, Swampscott, Mass., Stanley J. Gartner, Emporium, Pa., and Edwin W. Barrett, Danvers, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application December 27, 1945, Serial No. 637,440
10 Claims. (Cl. 49—2)

1. In a machine for fabricating stem members for electric lamps and thermionic devices, a main frame, long and short superposed chain type conveyors supported by and movable on said frame, means for driving said conveyors at the same speed including driving sprockets engaging the respective conveyors, idler sprockets for supporting the free ends of the conveyors, a plurality of stem element holding members secured at regular intervals upon said long conveyor, a plu-



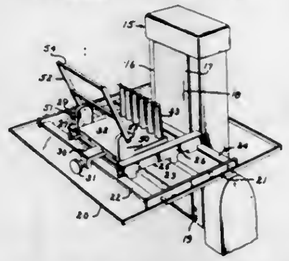
rality of supplementary stem holding members on said short conveyor and coacting with the holding members on said long conveyor to support the stems while they are processed and means for disengaging each supplementary holding member from its stem when it reaches and starts to follow the periphery of its idler sprocket.

2,637,145
MACHINE FOR FORMING ARCUATE CONTOURS
Roy E. Wasley, Portland, Oreg., assignor of one-third to Ralph L. Burke and one-third to Martin R. Chirgwin, both of Portland, Oreg.
Application November 12, 1949, Serial No. 126,888
12 Claims. (Cl. 51—96)



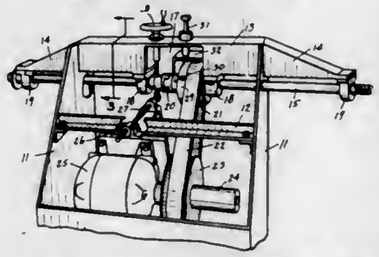
1. In a machine for forming an arcuate contour on a workpiece, a power operated tool for removing material from the workpiece, an oscillating work holding member, a pivot for said oscillating member mounted for movement toward and away from said tool through a long range of adjustment to form contours of different radius, releasable detent indexing means for locating said pivot at different predetermined distances from said tool, fast adjustment means for moving said pivot throughout said long range to position said pivot at said indexed distances, fine adjustment means for moving said pivot a short distance relative to each of said indexed positions, a handle movably mounted on said work holding member for oscillating said work holding member, fast adjustment means operable by said handle in one position relative to said work holding member for moving said work holding member relative to said pivot, and screw feed means for said member operable by said handle in another position.

2,637,146
RING DRESSING DEVICE
John M. Scott, Houston, Tex., assignor to Star Engraving Company, Houston, Tex., a corporation of Texas
Application September 5, 1950, Serial No. 183,154
3 Claims. (Cl. 51—143)



1. A ring dressing tool comprising, a post of substantially circular cross-section transverse to the axis thereof and having a tapered peripheral surface to wedgingly receive a ring form thereon providing an outer surface to be worked which is eccentric to the axis of said post, there being a longitudinal groove in the surface of said post, a release retractable within said groove but normally having a portion projecting from the groove for engagement with a ring so that a ring may be wedgingly engaged upon the post and said means but released from wedging engagement when said means is retracted, an abrasive belt driven to present a moving abrading surface, and means for moving said post to bring said ring form into contact with said belt to be wedged on said post by the friction of said belt so that said belt may form a surface on said ring substantially parallel to said abrading surface.

2,637,147
BUFFING MACHINE
Joseph N. Clyne, Indianapolis, Ind., assignor, by mesne assignments, to Grinding and Polishing Machinery Corporation, Indianapolis, Ind., a corporation of Indiana
Application July 21, 1951, Serial No. 237,875
2 Claims. (Cl. 51—166)



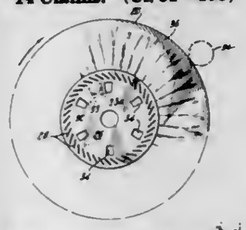
1. A buffing machine having a cabinet-like support, a rigid transverse beam secured across the top of said support, said beam being extended on each side thereof to provide rigid arm portions tapering to a reduced cross section at their respective ends spaced outwardly and laterally from said support, a pair of inner spindle bearings secured to the underside of said beam within said support, a pair of outer spindle bearings secured to the underside of said beam at the respective ends of its arm portions, whereby said bearings will be maintained in rigid alignment, a two-section spindle mounted in said bearings having a coupling between said sections intermediate said inner bearings, the ends of said spindle projecting beyond said outer bearings to receive buffing or polishing wheels for rotation thereby, a driving pulley secured to one section of said spindle intermediate said bearings, and driving mechanism therefor mounted within said cabinet-like support.

2,637,148
DEVICE FOR CONNECTING A MEMBER TO THE END PORTION OF A SPINDLE OR THE LIKE
Arthur Tingvatne, Kristiansand, Norway
Application July 2, 1951, Serial No. 234,885
In Norway August 25, 1950
7 Claims. (Cl. 51—168)



1. A device for connecting a member, for instance an abrasive disk, shaft or the like, to the end portion of a spindle or shaft, especially adapted to be used in connection with mandrels, upon which end portion, which has an axially extending threaded bore and externally is provided with threads, is mounted a sleeve provided with corresponding internal threads, while into said bore is inserted a screw having a head for clamping the abrasive disk or the like to said sleeve in such a manner that the abrasive disk, due to difference in the pitch of the aforesaid threads, cannot become loose on the mandrel independently of the direction of rotation, characterized in that the spindle is provided with a collar, the annular edge of which, facing said sleeve, has at least one stop member cooperating, when said sleeve is entirely screwed in, with at least one corresponding stop member provided on the inner edge of the sleeve, in such a manner that a further screwing movement of the sleeve is prevented before the sleeve is being pressed against the collar, thereby a jamming of said sleeve in its threads is being prevented.

2,637,149
ROTARY BUFF
Morris Schloss, Bronx, N. Y.
Application July 20, 1951, Serial No. 237,750
14 Claims. (Cl. 51—193)



1. In a rotary annular buff, in combination, a plurality of individually ungathered helical plies of bias-cut fabric, said fabric comprising relatively stiff warp threads and relatively soft filler threads, a continuous guard ply of said fabric on each side of said plurality of helical plies, all said warp threads throughout the outer zone of said

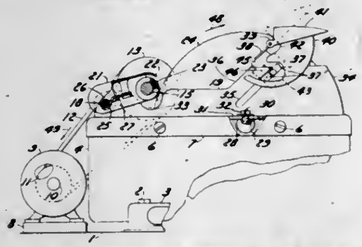
buff including said guard plies being inclined from the radial in the same rotational direction, and means to secure said plies directly together throughout the inner circumferential zone of said buff.

2,637,150
WORK HOLDER FOR GRINDING MACHINES
Hollister A. McQuary, Washington, D. C.
Application October 31, 1951, Serial No. 254,041
2 Claims. (Cl. 51—224)



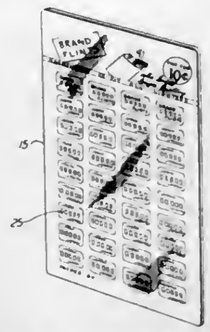
1. A work holder for planer knives and the like adapted to be mounted in operative relation to a suitable grinding wheel, comprising an elongated fixed base member, an elongated rectangular bar member hingedly connected to the fixed base member, resilient means normally urging the hinged member angularly outwardly from the base member, adjustable means limiting the outward movement of the hinged bar member, and a knife carrying carriage in the form of a bar of substantially equal width with the hinged bar and having a continuous top flange and spaced bottom guide flanges for free slidable engagement with the hinged bar member, a handle for manually reciprocating the carriage, and a knife clamp extending the full length of the carriage and detachably secured to the outer face thereof.

2,637,151
WORK REST AND WHEEL MOUNT
William B. Boice, Toledo, Ohio, assignor to Boice-Crane Company, Toledo, Ohio, a corporation of Ohio
Original application August 10, 1948, Serial No. 43,393. Divided and this application December 11, 1950, Serial No. 200,248
3 Claims. (Cl. 51—239)



1. In an abrasive wheel assembly having a bearing for the wheel and a support for the bearing, a tool rest device comprising: a wheel shield means rising from the support, said means including an inclined edge and parallel thereto a slot toward the bearing, plate means adapted to seat on said edge with an angular portion therefrom extending along the inner face of the shield means across the slot, said plate locating a bearing parallel to the wheel bearing axis, a work rest mounted in the plate-means-provided bearing, said rest having flanges depending against the outer face of the shield means and having an arc slot aligned with the plate means bearing, and a clamp pin through the plate means angular portion, the shield means inclined slot and the flange arc slot, adapted to set the work rest at different angles relative to the plate means and at different positions along the inclined slot.

2,637,152
METHOD OF MAKING SMALL ARTICLE PACKAGES
Wallace Kraus, Brooklyn, N. Y.
Application February 18, 1949, Serial No. 77,079
1 Claim. (Cl. 53—5)

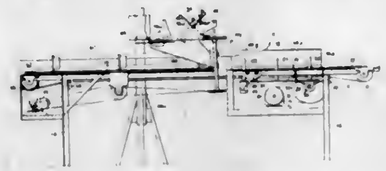


The method of providing an article display board containing a plurality of packages with small articles therein which consists of securing a data sheet with a plurality of spaced individual printed package markings on a thick cardboard, cutting article openings entirely through both the cardboard and data sheet at spaced locations and within said respective markings of the data sheet, thereafter securing a transparent sheet over the data sheet to close the front side of the openings and to permit the printed markings to be readable therethrough, thereafter placing small articles on the reverse side of the board and manipulating the board to cause the articles to enter the respective openings, securing a package backing sheet over the board and over the openings on the rear side thereof with lift tabs thereon aligned with the openings, cutting entirely through said cardboard and said sheets and about the openings and lift tabs to provide individual packages with the lift tabs thereupon, and finally securing a final backing sheet having struck portions over the individual packages and over the lift tabs thereof with the struck portions of the backing sheet aligned with the individual packages on the board, the struck portions of the final backing sheet providing weakened means in the final backing sheet to permit the outward projection of the individual packages from the front of the board upon the same being inwardly depressed.

2,637,153
BAG CLOSING APPARATUS
George Herman Clary, Belle Fourche, S. Dak., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application January 19, 1949, Serial No. 71,605
9 Claims. (Cl. 53—57)

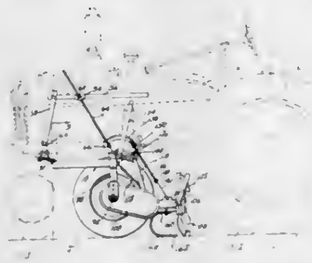
1. In apparatus for closing open mouthed gusseted bags, a reciprocating bag settler, a conveyor movable along a portion of said settler, said settler including a platform reciprocable to lift the bags periodically from and to redeposit same on said conveyor, said settler and conveyor co-acting to retard the bags and thereafter transfer same off of said platform and onto said conveyor at a preselected interval, a multi-arm gusset tucking element having arms in fixed angular relation to one another and mounted for angular

movement about an axis above and transversely disposed relative to said conveyor, a detent cam and follower for positioning said element, and resilient means for urging said follower against said cam said multi-arm gusset tucking element being positioned for engagement and actuatable by bags moving upon said conveyor, the leading



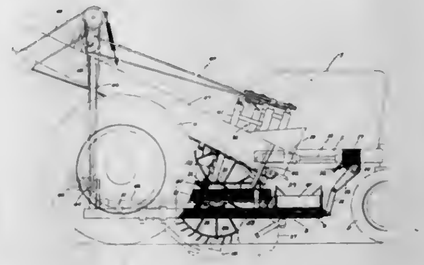
portion of such a bag engaging an arm of said element, such leading portion thus being tucked inwardly, the tucking element being simultaneously shifted angularly whereby said detent cam and follower are actuated and said tucking element is rapidly shifted angularly to tuck the trailing portion of such a bag.

2,637,154
MOUNTING MEANS FOR COTTON CHOPPERS
Edgar G. Shaver, Marianna, Ark.
Application June 29, 1951, Serial No. 234,185
3 Claims. (Cl. 55—61)



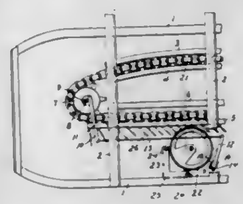
1. In combination, a tractor having a chassis including a forward transverse tool bar and front and rear ground engaging wheels, horizontal supporting frames positioned laterally outwardly of the opposite sides of the tractor chassis and between the front and rear wheels of the tractor, said supporting frames having front and rear ends, means pivoting the front ends of said frames to said tool bar, first adjusting means mounted on the tool bar and yieldably connected to the rear end of a supporting frame for adjusting the horizontal angle of the frame to the ground and relative to the tractor chassis frame, arms depending from the rear end of a frame, an axle journalled on lower portions of said arms, a ground engaging wheel mounted on the outer end of the axle, a chopper journalled on said axle intermediate its ends, said chopper including a housing extending rearwardly from the axle, a rotary cutter on the rear end of the housing, said cutter rotating on an axis substantially parallel to the adjacent side of the tractor chassis, and second adjusting means mounted on the rear of said frame and operatively connected to said cutter housing for adjusting the horizontal angle of the cutter axis to the ground and relative to the tractor chassis.

2,637,155
BEET HARVESTER FOR WHEEL-TYPE TRACTORS
Lewis Wallace Schmidt and Henry Vincent Lea, Rio Vista, Calif.
Application January 23, 1950, Serial No. 140,016
3 Claims. (Cl. 55—106)



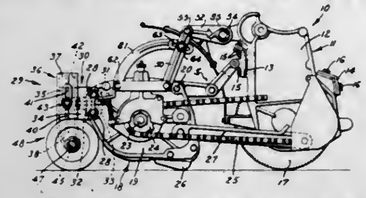
1. In a beet harvester adapted to be mounted on a tractor having a rear axle housing, a longitudinal frame assembly adapted to extend along one side of the tractor mainly ahead of the axle housing, said assembly including a main frame and a secondary frame separate therefrom, the secondary frame having a driven beet pick-up wheel thereon, a mount supporting the frames at their rear end from the axle housing and including a cross shaft below the housing, on which the frames are separately turnable, means supporting the secondary frame from the main frame for upward floating movement from a predetermined low position on the main frame, and means to suspend the main frame adjacent its forward end from the tractor.

2,637,156
COTTON PICKER SPINDLE MOISTENING APPARATUS
John D. Rust, Memphis, Tenn.
Application May 11, 1949, Serial No. 92,712
6 Claims. (Cl. 56—42)



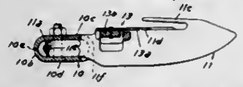
1. In a cotton picking unit having an endless conveyor with a plurality of spindle carrying slats thereon, means carried by said unit for driving said conveyor, means carried by said unit for applying a liquid in the form of suds or foam to the spindles including a receptacle, an agitator positioned in said receptacle, a tube communicating with said receptacle for delivering a liquid capable of producing foam or suds, driving mechanism connecting said agitator with said driving means and an outlet spout provided on said receptacle for delivering suds or foam to said spindles.

2,637,157
GAUGE ROLL FOR LAWN MOWERS
Henry J. Stegeman, Fairfield, Conn., assignor to The Locke Steel Chain Company, Bridgeport, Conn., a corporation of Connecticut
Application January 29, 1951, Serial No. 208,388
3 Claims. (Cl. 56—249)



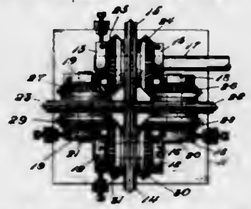
1. In a power lawn mower including a cutter frame comprising a pair of vertically aligned and vertically spaced horizontal front cross bars of corresponding diameters, the improvement which comprises a bracket having a pair of vertically aligned and vertically spaced horizontal cross-bar engaging grooves engageable by said bars at the selected point along their length; said bracket including a forwardly extending arm, vertical guide means rigid with the forward end of said arm and located laterally of the main plane thereof, a post having vertical guide means complemental to that of the bracket, means for securing said post to said bracket in various positions of adjustment relative thereto and with the guide means of the bracket and the guide means of the post engaging, a roll, means laterally offset with respect to said vertical guide means rotatably mounting said roll on the lower end portion of said bracket, and said grooves being interchangeably engageable by said bars whereby the bracket may be reversely mounted with said guide means laterally of the selected side of the bracket arm whereby said post may be mounted on the bracket with said roll located close to or farther from said cutter frame.

2,637,158
CUTTER BAR AND MOWER GUARD FOR MOWERS
Vernon O. Hauswirth, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application September 24, 1951, Serial No. 247,951
1 Claim. (Cl. 56—307)



A cutter bar assembly for a mowing machine comprising, a tubular member having substantially parallel top and bottom walls and adjoining convex leading and trailing edge walls defining a hollow interior, said leading edge wall having a plurality of openings therein disposed in longitudinally spaced relationship, said openings extending laterally inwardly into said top and bottom walls to respectively provide vertically aligned, forwardly facing stop surfaces therein, a plurality of mower guards, a projection on each of said mower guards respectively insertable in said openings, said projections being shaped to fit relatively snugly against the inner surfaces of said parallel top and bottom walls, a peripherally extending abutment shoulder on each of said mower guards adjacent said trailing projection, said shoulder having top and bottom portions arranged to respectively abut said stop surfaces and concave side portions shaped to snugly abut said leading edge when said projection is inserted in said opening, and a bolt vertically traversing said hollow bar and said projection to removably secure said guard to said bar, said abutment shoulder and said projection effectively locking said guard against movement.

2,637,159
CHAINMAKING APPARATUS
Robert L. Cooke, Attleboro, Mass., assignor to Charles D. J. Smith, Attleboro, Mass.
Application January 27, 1950, Serial No. 140,829
4 Claims. (Cl. 59—10)



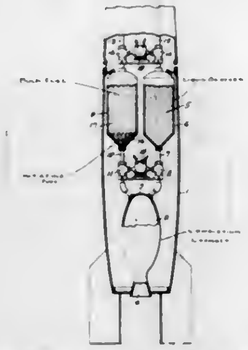
1. In a chain making apparatus, two pairs of opposed symmetrically located rolls arranged at right angles to each other with their edges mitered at equal angles to fit together, said rolls being provided with depressions on their circumferential surfaces which follow the exterior form of the chain to be produced, and each of said opposed pairs of rolls having shoulders at right angles to the axis and each of said opposed pairs having annular faces parallel to the axes presented to the shoulders of the other set of opposed pairs of rolls to limit the movement of the axes of each pair of rolls toward each other so that the work forming edges may not interfere.

2,637,160
ENGINE MANIFOLD
Harry Andrew Thomas, Baldton, Del., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application September 2, 1948, Serial No. 47,382
5 Claims. (Cl. 60—29)



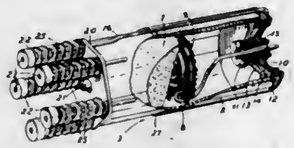
1. A manifold for an internal combustion engine having a plurality of cylinders comprising, in combination, a pipe having a longitudinal partition to form a pair of longitudinal passages therein, said pipe having spaced openings in its side and each of said openings extending over each side of said partition so as to be intersected by the partition if extended, notches formed in said partition in communicating alignment with and adjacent to each of said openings, and branch pipes for connection to the engine cylinders extending through said openings, one of said branch pipes having a partial bottom closure disposed on one side of said partition to prevent communication of such branch pipe with the longitudinal passage on that side but at the same time cause gases to flow from the branch pipe through its adjacent partition notch into the other longitudinal passage, and another of said branch pipes having a similar partial bottom closure disposed on the other side of said partition to direct gases into the opposite longitudinal passage.

2,637,161
PROCESS OF IGNITION FOR ROCKETS AND THE LIKE
Johann G. Tschinkel, Fort Bliss, Tex., assignor to the United States of America as represented by the Secretary of the Army
Application November 10, 1949, Serial No. 126,658
6 Claims. (Cl. 60—35.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



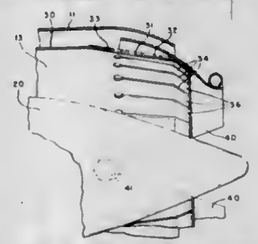
1. A process for burning fuel in a rocket motor having one combustion zone comprising the steps of bringing together in the combustion zone an oxidizer selected from the group consisting of nitric acid, nitrogen tetroxide and hydrogen peroxide and a fuel spontaneously combustible therewith selected from the group consisting of aniline, furfuryl alcohol, pyrocatechol and hydrazine hydrate to initiate combustion, and thereafter supplying to the combustion zone said oxidizer and another fuel selected from the group consisting of gasoline and benzene to continue combustion.

2,637,162
REACTION-PROPELLED MODEL AIRPLANE, VEHICLE OR BOAT AND MOTOR THEREFOR
Charles M. Wilmot and Joseph N. Mansour, Totton, England
Application July 19, 1948, Serial No. 39,434
In Great Britain November 11, 1947
5 Claims. (Cl. 60—35.6)



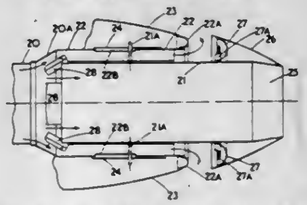
1. A reaction motor of the rocket type adapted for use in a model aircraft, vehicle or vessel, and comprising a casing adapted to receive a gas-generating charge, said casing comprising a member formed with at least one jet orifice having a fixed effective cross section for the discharge of gases generated by the charge, said member being movable relative to the remainder of said casing, and spring means acting on said member and operative to allow said member to move away from the remainder of said casing to allow said gases to escape therebetween upon a predetermined abnormal pressure being attained in said casing but to hold said member in position during normal escape of said gases through said orifice.

2,637,163
JET ENGINE VARIABLE AREA EXHAUST NOZZLE
Charles R. Brown, Glen Mills, and William H. Leedecke, Yeadon, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 26, 1951, Serial No. 223,110
3 Claims. (Cl. 60—35.6)



2. A variable area exhaust nozzle for a jet propulsion power plant, comprising an annular two-ply wall structure slotted longitudinally from its downstream end, considered in the direction of flow of exhaust gases through the nozzle, the slots of one ply being staggered circumferentially relative to the slots of the other ply, whereby the slots of each ply are covered by the material between the slots of the other ply, means uniting the two plys upstream of the slots only, and a plurality of nozzle area adjusting elements mounted externally of the annular wall structure for pivotal movement relative to the downstream terminal portion of said wall structure, between a first position of maximum effective exhaust nozzle area and a second position of minimum effective exhaust nozzle area, the slotted construction of the downstream portion of the annular two-ply wall structure providing for outward movement of the latter into sealing contact with the nozzle area adjusting elements under pressure of exhaust gases flowing through the nozzle.

2,637,164
JET SPOILING MEANS FOR AIRCRAFT GAS TURBINES
Arthur Rynyon Devereux Robson, Dogmersfield, near Basingstoke, and Alexander Pearce Johnstone, Frimley, England, assignors to Power Jets (Research & Development) Limited, London, England
Application March 8, 1946, Serial No. 653,118
In Great Britain March 22, 1945
9 Claims. (Cl. 60—35.6)



4. In an aircraft gas-turbine plant fitted with a jet pipe for the rearward efflux of a stream

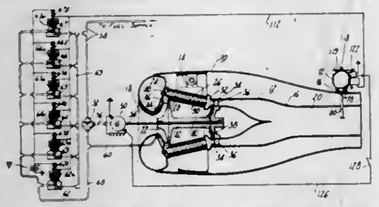
of the working fluid as a propulsive jet, said jet pipe having at least one apertured part therein, and thrust-spoiling means associated with said jet pipe, comprising, in combination, an upstream pointing deflector-plate, a curved guide plate formed as an integral extension of said deflector-plate adjacent the apertured part of said jet pipe and lying outside the jet pipe to define a path for the working fluid changing smoothly from the rearward direction to a thrust-spoiling direction, and pivotal mounting means for said combined deflector-plate and guide-plate permitting movement of the upstream end of the deflector-plate into the pipe and progressively across the said stream to positions in which it progressively decreases the cross-section of the rearwardly-directed jet while at the same time providing a path for some of the working fluid rearwardly along the deflector-plate and then along the guide-plate into the thrust-spoiling direction.

2,637,165

ENGINE OVER TEMPERATURE FUEL CONTROL MECHANISM

Paul P. Stockinger, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application August 20, 1947, Serial No. 769,722
6 Claims. (Cl. 60—39.09)



6. In a fuel system for an engine, the combination of a pump, a pipeline from the discharge side of the pump to the engine, a connection from the discharge side of the pump to the inlet side thereof, a plurality of valves arranged in said connection to provide parallel flow paths, an electrically actuated device for each valve, each device being calibrated to require a different value of current for its actuation, and an electrical circuit embracing said devices and including a temperature responsive mechanism arranged to sense engine temperature, said mechanism being constructed and arranged to vary the current in the circuit in proportion to engine temperature.

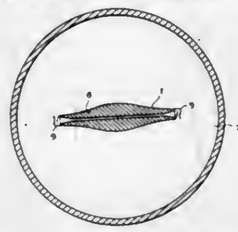
2,637,166

PURE REACTION TURBINE WITH EVACUATED CHAMBER AND ROTOR ELEMENT THEREFOR

James M. Carswell, Toronto, Ontario, Canada

Application October 7, 1948, Serial No. 53,313
6 Claims. (Cl. 60—39.35)

1. A jet reaction type rotor comprising a blade element having spaced transverse walls formed at each of the tips of said blade and defining a combustion chamber therebetween, said walls having a catenary-like shape corresponding to the shape assumed by a nexible member hanging in a centrifugal field of force between opposing side walls of said blade to eliminate bending moments in said walls under rotation of said blade, discharge openings formed at the tips of said blade and communicating with said combustion chamber to direct products of combustion therefrom to effect the rotation of said blade, and passageways formed in said shaft and blade



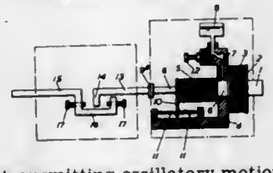
to conduct combustibles to said combustion chambers.

2,637,167

APPARATUS FOR TRANSMITTING AND AMPLIFYING MOTION OF A KNOWN FREQUENCY OF OSCILLATION AND SUPPRESSING SUPERIMPOSED MOTIONS OF OTHER FREQUENCIES OF OSCILLATION

Richard Barradell-Smith and Richard Davison, St. Helens, England, assignors to Pilkington Brothers Limited, Liverpool, Lancaster County, England, a corporation of Great Britain

Application September 1, 1951, Serial No. 244,833
In Great Britain August 11, 1951
7 Claims. (Cl. 60—54.5)



1. For transmitting oscillatory motion of a desired frequency and for filtering out oscillatory motions of higher and lower frequencies, apparatus comprising a first viscous liquid filled resilient bellows, a second viscous liquid filled bellows, a viscous liquid filled conduit forming a fluid link between said first and second bellows, a power take-off member secured to said first bellows, balance springs coupled to said second bellows to urge it to a neutral position, a transmission element to transmit said motion of desired frequency, an adjustable bleed from said conduit to absorb oscillatory motions of frequencies below the desired frequency, and an adjustable lost-motion device coupling said second bellows and transmission element to absorb oscillatory motions of substantially constant amplitude and of much higher frequency than the desired frequency.

2,637,168

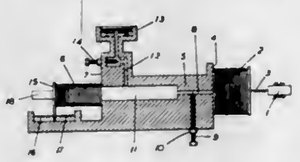
APPARATUS FOR TRANSMITTING OSCILLATORY MOTION OF A KNOWN FREQUENCY AND SUPPRESSING SUPERIMPOSED OSCILLATORY MOTIONS OF OTHER FREQUENCIES

Richard Davison and Richard Barradell-Smith, St. Helens, England, assignors to Pilkington Brothers Limited, Liverpool, Lancaster County, England, a corporation of Great Britain

Application September 1, 1951, Serial No. 244,834
In Great Britain August 11, 1951
5 Claims. (Cl. 60—54.5)

1. For transmitting oscillatory motion of a known frequency and suppressing superimposed

oscillatory motions of higher and lower frequencies which it is desired not to transmit, apparatus comprising a viscous liquid filled conduit, a first member mounted at one end of the conduit for movement in response to variations of pressure in the liquid, a second member mounted at the other end of the conduit for movement in response to variations of pressure in the liquid, a power take-off member, a stiff resilient coupling connecting the power take-off member to said first member, adjustable flow controlling means to control the rate of liquid flow between said first and second



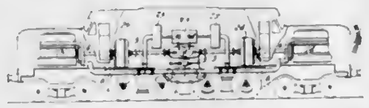
members whereby oscillatory motions of frequencies higher than that to be transmitted are absorbed by said resilient coupling, balance springs coupled to said second member to urge it to a neutral position, a transmission element movable with said second member to transmit the motion of desired frequency, a reservoir containing viscous liquid at atmospheric pressure, and an adjustable bleed device between said conduit and reservoir to control the rate of liquid flow therebetween thereby to absorb oscillatory motions of frequencies below that to be transmitted by the transmission element.

2,637,169

CONTROL FOR TRANSMISSION GEARING IN MULTIENGINE POWER PLANTS

Louis Frederick Rudston Fell, Littleover, England, assignor to Fell Developments Limited, London, England, a British company

Application August 31, 1949, Serial No. 113,370
In Great Britain September 6, 1948
3 Claims. (Cl. 60—97)



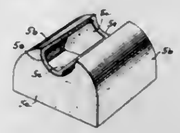
1. In a power plant comprising two main supercharged compression-ignition internal combustion engines, a differential gear, a variable-filling fluid coupling associated with each main engine, means whereby each main engine drives a sun wheel of said differential gear through one of said fluid couplings, main engine control means whereby the torque of the main engines can be controlled separately or together, and, operative on the respective sun wheels, unidirectional self-wrapping brakes each having a brake drum and brake shoe means; brake control means which comprises a plurality of brake disengaging means, each associated with one self-wrapping brake and adapted when operated to disengage the shoe means from the drum of said brake, and means operatively connected with said main engine control means to operate said brake disengaging means of any one brake when the main engine associated therewith is supplying torque and of all the brakes when all the main engines are idling.

2,637,170

DRAIN FOR SEWAGE DISPOSAL SYSTEMS

Louis K. Benedict, East Palatka, Fla.

Application October 13, 1949, Serial No. 121,077
3 Claims. (Cl. 61—11)



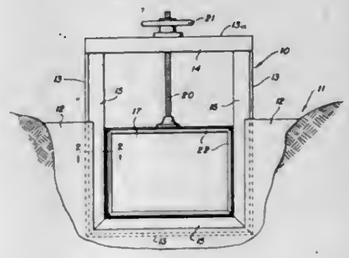
3. A hollow block for supporting drain tile, and comprising imperforate end walls and top and side walls connecting said end walls, said block being open at the bottom and including a saddle for said drain tile extending longitudinally thereof at the top of said block, said saddle being formed by aligned concave recesses in the imperforate end walls of said block and a rib extending from end wall to end wall longitudinally and centrally of the block and aligned with the centers of the recesses, said rib being integral with and supported by said end walls with its upper face lying in the plane of the bottoms of the recesses to adapt the rib and the recesses to complementally engage and support the drain tile, the upper portions of the top and side walls terminating in inwardly directed portions which terminate in alignment with the outer sides of the concave recesses of said end walls at the top of said recesses.

2,637,171

WATER GATE

Averno T. Black, Deseret, Utah

Application March 28, 1949, Serial No. 83,817
8 Claims. (Cl. 61—28)



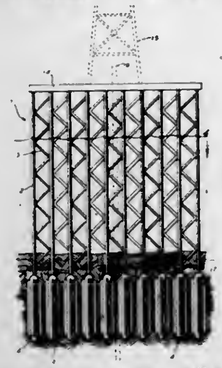
1. In water gate construction, laterally disposed and elongate slideways spaced apart in opposed relationship to define a flow passage therebetween and to receive a gate for controlling flow through said passage, each of said slideways being formed of stiffly flexible and water resistant structural sheet material bent to general W configuration wherein the bends are free for flexure and the central re-entrant bend has a constricted portion removed outwardly from the closed end thereof and facing the similarly constricted portion of the central re-entrant bend of the opposed slideway for slidably receiving the gate therein and making a sealing engagement therewith; and means anchoring the terminal portions of the wings of said W configuration in their mutually spaced relationship.

2,637,172

OFFSHORE DRILLING PLATFORM

Kenneth C. Howard, Fort Worth, Tex., assignor to Richardson & Bass, Fort Worth, Tex., a corporation of Texas

Application July 8, 1948, Serial No. 37,599
5 Claims. (Cl. 61—46)



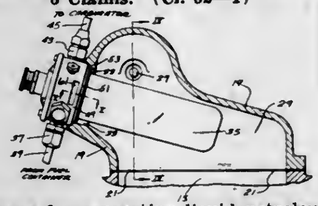
1. A supporting unit for an off-shore drilling platform comprising a rigid tubular support and a closed streamlined float connected to the tubular support at one end thereof, said unit being adapted to be floated to a place of assembly in a horizontal position, the float lowered beneath the surface of the water and embedded in the subaquatic surface while a portion of the rigid tubular support projects upwardly beyond the surface of the water to permit attachment of the drilling platform, said float being of tubular form rounded at its lower end and surrounding the lower portion of the support, jetting means comprising a pipe extending downwardly through the tubular support and opening through the bottom of the float for supplying jetting fluid beneath the float for removing mud or silt to facilitate embedding and removing the float, means for selectively supplying and removing air to and from the interior of the float comprising a second pipe separate from the jetting pipe and extending downwardly through the tubular support and communicating with the upper portion of the interior of the float, and means comprising a third pipe extending through the tubular support and communicating with the interior of the float at the lower portion thereof for selectively supplying to and removing from the float ballast fluid, permitting the float to settle to the bottom or to be floated to the surface as desired.

2,637,173

MEANS FOR CONVERTING LIQUID FUEL

William T. Taylor, Marks, Miss.

Application January 12, 1952, Serial No. 266,148
6 Claims. (Cl. 62—1)



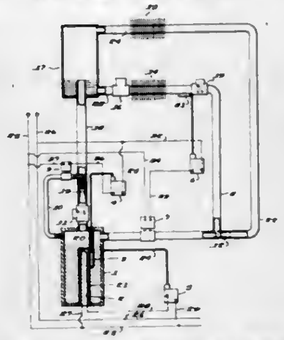
1. Means for converting liquid petroleum gas for use with an internal combustion engine having an engine cooling system including a supply of water contained in said engine, an outlet for circulating flow of said supply from said engine, a radiator and a hose for connecting said outlet flow to said radiator; said converting means comprising a casing adapted for seating on said engine, said casing housing a chamber having an open base adapted to be positioned in registering communication with said outlet, a hose connection communicating into said chamber to receive flow therefrom, an annular aperture formed in said casing offset from said hose connection, a shoulder coextensive with and contiguous to said aperture formed in said casing, a converter cartridge having a collar including an annular shoulder, removably mounted in said aperture with said cartridge shoulder seated against said casing shoulder, said collar being grooved adjacent said cartridge shoulder, lug means removably secured to said casing adjacent said aperture, said lug means being of a length to extend across said casing shoulder and engage said collar grooving to anchor said cartridge to said casing, said cartridge when anchored extending into said chamber, and means for introducing liquid petroleum gas into said cartridge for converting action.

2,637,174

NONRECIPROCATING REFRIGERATION UNIT

Walter P. Austin, Nashville, Tenn., assignor of one-half to R. T. Patterson, Nashville, Tenn.

Application July 11, 1950, Serial No. 173,115
2 Claims. (Cl. 62—3)



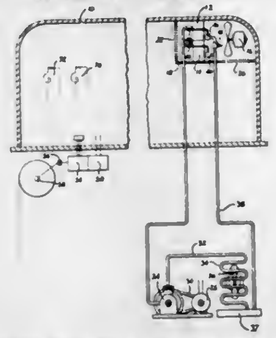
1. In a refrigeration system, a receiver tank, a generator adapted to receive refrigerant from said receiver tank, a heating element arranged in said generator, a tubular well in said generator enclosing said heating element, a second well in said generator secured to said first well, a thermostat control built in said second well, a thermostatic switch connected to said control bulb, a condenser, an evaporator, a first conduit connecting said generator to said condenser, a second conduit connecting said condenser to said receiver tank, an ejector arranged in said first conduit, a third conduit connecting said receiver tank to said evaporator, an expansion valve in said third conduit, a fourth conduit connecting said evaporator to said ejector, a pipe connecting said receiver tank to said generator, a pressure operated switch for controlling the actuation of said heating element, a check valve in the pipe connecting said generator to said receiver tank, a high pressure tube connected to said generator and to said pipe above said check valve, a solenoid arranged in said high pressure tube, a solenoid valve in said first conduit, a thermostatic control bulb connected to said last said solenoid valve and a circuit for said pressure switch, said solenoid, said solenoid valve, and said first and second thermostatic switches for the actuation thereof.

2,637,175

MODULATING REFRIGERATING APPARATUS

Donald F. Alexander, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Continuation of application Serial No. 629,757, November 20, 1945. This application December 16, 1949, Serial No. 133,366
15 Claims. (Cl. 62—4)



1. A single enclosure, refrigerating apparatus for cooling said enclosure including refrigerant liquefying and evaporating means connected in an operative refrigerant circuit, said evaporating means being located in heat exchange relation with said enclosure, a motor for driving said refrigerant liquefying means, said motor being provided with a speed regulating means, a first thermostatic means responsive to refrigerating requirements of said enclosure for initiating the operation of said motor, said thermostatic means including a starting control means for controlling said speed regulating means to provide a limited motor starting speed for a given length of time and an additional control means for controlling said speed regulating means to provide a higher motor speed for operation after the given length of time, and a second thermostatic means responsive to greater refrigerating requirements of said enclosure than said first thermostatic means for controlling said speed regulating means to provide a still higher motor speed for operation under greater refrigeration requirements.

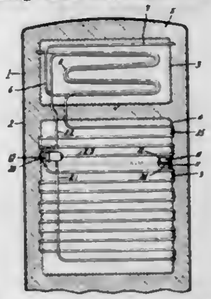
2,637,176

REFRIGERATING SYSTEM FOR MULTIPLE-COMPARTMENT REFRIGERATORS

Frank A. Schumacher, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application December 26, 1951, Serial No. 263,200
6 Claims. (Cl. 62—95)

1. A refrigerator comprising a low temperature compartment, a liner defining a higher temperature compartment, said higher temperature compartment being divided into a high humidity compartment and a low humidity compartment, a primary refrigerating system including a primary evaporator maintained at a temperature substantially below the freezing point of water for refrigerating said low temperature compartment and a secondary refrigerating system, said secondary system including a condensing portion in heat exchange relationship with said primary evaporator and an evaporating portion in heat exchange relationship with said liner for cooling said high humidity compartment, said secondary system further including a section between said condensing and said evaporating portions in heat exchange relationship with said low humidity compartment and adapted to contain liquid refrigerant substantially at the temperature of said primary evaporator for providing refrigeration for said low humidity compartment whereby moisture is condensed from the air in said low humidity compartment.

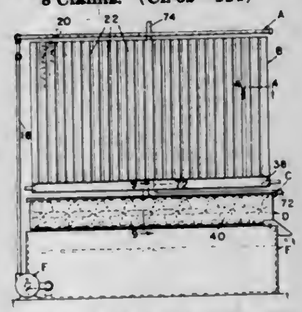


2,637,177

CONGELATION APPARATUS AND METHOD

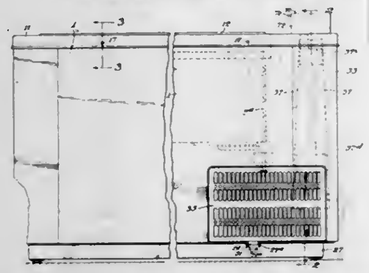
Harold M. Reedall, Shaker Heights, Ohio

Application September 20, 1949, Serial No. 116,652
8 Claims. (Cl. 62—114)



1. Congelation apparatus comprising an expansion chamber having substantially vertical, parallel molding channels in the outer surfaces of opposed walls thereof; a liquid feed manifold disposed along the top of said chamber for delivering liquid to be congealed to said channels; means beneath said chamber for collecting excess liquid draining from said channels associated with means for recirculating the drained liquid to and through said manifold; a compressor and a transfer tank; means for pumping condensed refrigerant from said compressor to said expansion chamber through said transfer tank; means for removing the refrigerant from the expansion chamber as a gas, and for conducting it back to the compressor, and means for cyclically opening said transfer tank to the low pressure side of the system thereby to reverse the flow of refrigerant to said expansion chamber.

2,637,178
REFRIGERATED STORAGE, DISPENSING, AND DISPLAY CABINET
Joseph A. Galazzi, Morrison, Wayne D. Jordan, Chicago, and Paul D. Van Vliet, River Forest, Ill., assignors to Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application March 17, 1949, Serial No. 81,976
13 Claims. (Cl. 62—117.4)



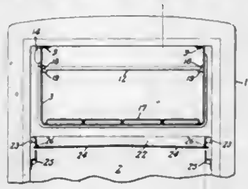
1. In a refrigerated storage, dispensing or display cabinet having at least one opening in the top thereof, an external metal shell with a closed bottom, and having at least one internal metal sleeve spaced from the shell and having a top opening, and heat insulation between each of the sleeves and the shell on the sides and bottom, one end sleeve being shallower than adjacent sleeves, an extension of the shell at the shallow sleeve end, defining a vertical duct, a metal capping extending over the shell and the extension, and having a hole through the capping of a size slightly smaller than and over the duct opening, a pump-motor compartment within the shell and under the shallow sleeve and duct, having one side wall and a ceiling integral with the cabinet shell, a second side wall integral with its shell extension, and communicating with the vertical duct, and having openings through front and rear of the cabinet shell and extension walls, partially closed by grilles admitting air freely, and fin and tube condenser means located within the duct and partly extending downwardly into the pump-motor compartment, said condensing means comprising two units placed face to face with top edges touching and the bottom edges spread apart, providing free air inlet space between condensers at the bottom, to the entire inner faces of both condensers and providing free exit over the entire outer faces of both condensers to the duct and the top opening, and a metal housing fastened over the duct opening, having a flat top to provide top working surface, and perforated metal side walls allowing air to move freely from duct to room.

2,637,179
COLLAPSIBLY MOUNTED CONDENSER
George A. Gruss and Alex A. Sobieski, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application May 16, 1951, Serial No. 226,722
9 Claims. (Cl. 62—117.4)



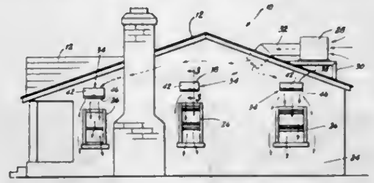
1. In a refrigeration apparatus, the combination of a cabinet having vertically disposed exterior wall portions, a planar condenser normally maintained in a parallel spaced apart relationship to one of said wall portions, hinge means including parallel spaced apart axes of rotation movably supporting said condenser from said wall portion whereby said condenser may be moved between said parallel spaced apart position and a second parallel position adjacent said one of said wall portions, and means for maintaining the said condenser in the parallel spaced apart relationship to said one of said wall portions.

2,637,180
ELECTRICAL DEFROSTING ARRANGEMENT FOR REFRIGERATORS
Leonard W. Atchison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 21, 1950, Serial No. 196,897
4 Claims. (Cl. 62—126)



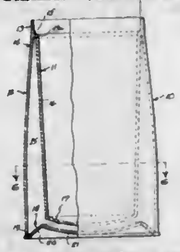
1. In a refrigerator including a food storage compartment, an evaporator for cooling said compartment, said evaporator having a bottom wall, and at least one side wall, means for cooling said walls, said walls being exposed to the air in said compartment whereby frost forms thereon, an electric heating element secured to the exposed surface of said walls for melting frost therefrom, and a wire rack resting on said bottom wall of said evaporator for supporting food stored in said evaporator, said rack including a plurality of feet depending therefrom resting on said bottom wall of said evaporator for maintaining the food stored thereon in spaced relationship with said bottom wall whereby heat transfer from said heating element to the food is minimized.

2,637,181
SYSTEM OF COOLING DWELLINGS
Abert Otto Schramm, La Crescenta, Calif.
Application December 5, 1949, Serial No. 131,073
5 Claims. (Cl. 62—139)



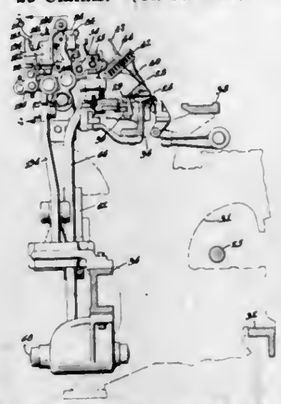
1. A cooling system for use with a dwelling having an attic, comprising an air cooler; means for conducting the air from said cooler into the attic of the dwelling; and means for directing the cooled air from said attic over the outer surfaces of the dwelling, said last-named means including at least one duct having its inner end opening into the attic and its outer end containing an opening for directing the air in a downward direction.

2,637,182
DOUBLE-WALLED TUMBLER
George Howlett Davis, Detroit, Mich.
Application January 27, 1950, Serial No. 140,904
2 Claims. (Cl. 65—66)



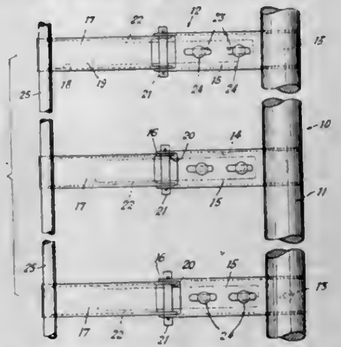
1. A double-walled tumbler comprising a one-piece body member having a cup-shaped inner container and a tubular outer wall extending downwardly from the upper edge portion of said inner container in spaced relationship therewith, said outer wall having a lower edge portion extending below the lowermost portion of said inner container to space the bottom of said inner container above the surface of a table upon which said tumbler is placed, the bottom of said inner container being concavely curved, and a separate inwardly dished outer bottom member permanently secured to the lower edge portion of said tubular outer wall and closing the opening defined thereby, the said outer bottom member being convexly curved to be substantially parallel to the concavely curved bottom of said inner container so that only a limited contact is provided for the tumbler with the table surface by contact of peripheral portions of said outer bottom member.

2,637,183
CARRIER ROD DRIVING MECHANISM FOR KNITTING MACHINES
Gottlob Bitzer, Lincoln Park, Henry C. Pingel, Wyomissing, and Charles R. Fegley, Laureldale, Pa., assignors to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application June 7, 1951, Serial No. 230,304
23 Claims. (Cl. 66—126)



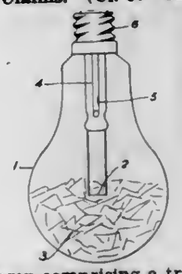
1. In a full-fashioned knitting machine, the combination with a friction box rod, yarn carrier rods and a friction box therefor on said friction box rod, of means for reciprocating said friction box comprising in addition to said friction box rod, a head mounted for reciprocation parallel to the friction box rod, a connection between said head and the friction box for transmitting a driving force from the head to the box, means for intermittently driving said head and means for disconnecting said head from its driving means and retarding the head as the friction box approaches the end of its stroke.

2,637,184
WARP TENSION BAR FOR KNITTING MACHINES
Peter J. Schoenster, Teaneck, N. J., assignor to Alfred Hofmann & Co., West New York, N. J., a corporation
Application August 14, 1951, Serial No. 241,784
6 Claims. (Cl. 66—146)



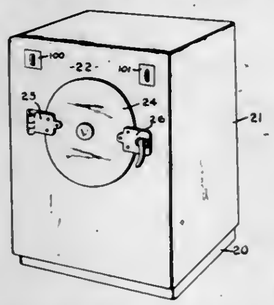
6. In a warp knitting machine, a support, warp tension means including a warp guide bar and means for mounting said guide bar on said support comprising a plurality of independent, spaced resilient means interconnecting said bar and said support at spaced intervals along said bar, and means on each of said resilient means for adjusting the resilient capacity thereof.

2,637,185
FLASHLAMP
Johannes Antonius Maria Van Liempt, Eindhoven, Netherlands, assignor to Corporacion de Ventas de Salitre y Yodo de Chile, Valparaiso, Chile, a company of Chile
Application July 30, 1948, Serial No. 41,707
3 Claims. (Cl. 67—31)



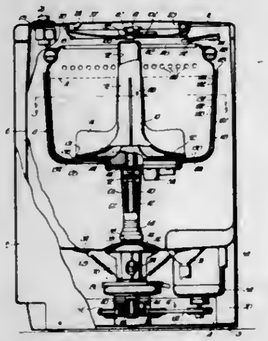
1. A flash lamp comprising a transparent bulb containing aluminium foil, dry oxygen at less than atmospheric pressure, sufficient iodine to corrode the whole surface of the aluminium on access of moisture to the bulb, and an electric circuit for igniting the aluminium by the passage of current.

2,637,186
LAUNDRY MACHINE
Peyton W. Douglas, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 20, 1947, Serial No. 775,236
8 Claims. (Cl. 68—24)



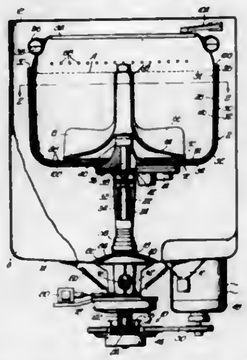
1. A laundry machine of the type having a drum mounted for rotation about its axis and in which the laundry is both washed and centrifugally dried, characterized by said drum being substantially imperforate and having a laundry-containing chamber and an enlarged liquid-collecting chamber of a diameter greater than the diameter of said laundry chamber, means for transferring from said laundry chamber to said collecting chamber liquid centrifugally extracted from the laundry in said laundry chamber, said collecting chamber being so constructed and arranged as to retain said extracted liquid during the centrifuging operation, means including a hollow drum support shaft for discharging said extracted liquid from said collecting chamber as the drum slows down from centrifuging speed, and a valve for said last-named means for preventing discharge during washing.

2,637,187
WASHING MACHINE WITH A ROTATABLE TUB AND A CONCENTRIC BASKET
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application August 6, 1949, Serial No. 108,992
3 Claims. (Cl. 68—23)



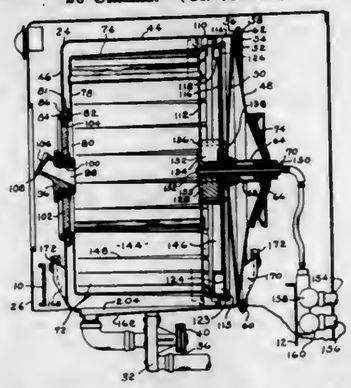
1. In a washing machine having a rotatable tub for receiving washing liquid and fabrics to be washed and being provided with an oscillatable agitator disposed in said tub having a part underlying the fabrics to be washed, said tub comprising an imperforate receptacle having an upwardly and outwardly flaring side wall with an upper open end and an open-ended basket having a side wall and a bottom wall, means for securing said receptacle in parallel spaced relation thereto to provide an annular space between said side wall and a sediment zone at the bottom of said receptacle, said basket having its lower inner open end terminating inwardly in spaced relation to the sidewall and above the bottom wall of said receptacle to provide a continuous peripheral opening adjacent the outer periphery of said agitator providing communication between the interior of said basket and said annular liquid conducting space, said basket being further provided with liquid discharge openings above the upper end of said receptacle and being imperforate elsewhere along its side wall and bottom, whereby when said tub is rotated a portion of the liquid flows around said agitator through the inner peripheral open end of said basket into the sediment zone and up the annular discharge space out of contact with the fabrics, and the remainder is discharged from said basket through said openings in the upper portion of its side wall.

2,637,188
TUB ASSEMBLY FOR WASHING MACHINES
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application August 6, 1949, Serial No. 108,993
7 Claims. (Cl. 68—23)



1. In a washing machine having a tub adapted to receive liquid and material to be washed and to be spun to centrifugally extract the liquid from the material, said tub comprising an imperforate outer tub having a bottom wall and an upwardly flaring side wall with an upper open end extending above the normal liquid level therein, and an open ended inner tub disposed in said outer tub to provide a space therebetween along the side and bottom walls of said outer tub, means for securing said inner and outer tubs to provide a unitary structure, means for providing communication between the interior of said inner tub and the space at the lower portion thereof, and mechanical liquid elevating means disposed in said space, whereby when said tub is accelerated said elevating means act to remove the liquid therein out of contact with the fabrics in said inner tub.

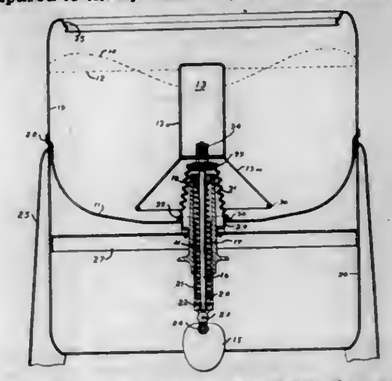
2,637,189
LAUNDRY MACHINE
Peyton W. Douglas, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 20, 1947, Serial No. 775,237
20 Claims. (Cl. 68—24)



1. A washing machine drum comprising a member having a front wall and a substantially cylindrical wall, said substantially cylindrical wall having an annular outward offset inwardly spaced from the rear edge thereof, a transverse partition seated on said offset, said cylindrical portion having one or more longitudinal grooves of increasing depth from said front wall to said offset, the amount of said offset being at least as great as the maximum depth of said grooves, ports in said partition aligned with said grooves, a rear wall secured to the marginal edge of said cylindrical wall, an arcuate conduit positioned adjacent the periphery of said rear wall and being approximately semicircular in length, and having a port at one end connecting with the chamber formed by the rear wall and partition and a drain port substantially diametrically disposed from said other port, and a trunnion extending rearwardly of said drum and secured to said partition and rear wall.

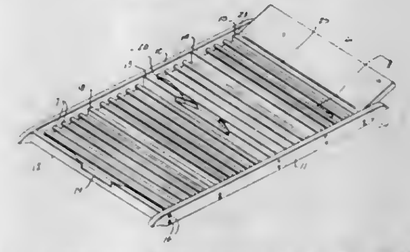
2,637,190
CLOTHES WASHING MACHINE
Donald K. Ferris, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application April 3, 1944, Serial No. 529,331. Divided and this application January 2, 1948, Serial No. 235
1 Claim. (Cl. 68—131)

A washing machine comprising a tub, an agitator mounted within said tub substantially at the center axis thereof for reciprocation adjacent the bottom of said tub, said agitator comprising a downwardly directed cone of relatively small horizontal extent compared with said tub, a reciprocating mechanism connected to said agitator, said mechanism including a vertically reciprocable rod secured to said agitator and passing through the bottom of said tub, a spring connected to said rod to urge said rod downwardly, a lobe-shaped eccentrically mounted cam maintained in contact with said rod by the action of said spring, and means to rotate said cam to produce a vertical reciprocation of said agitator with a reduced speed acceleration and deceleration of the agitator near the lower limit of its reciprocation as compared to the speed acceleration and deceleration in its upper limit and as compared to that produced by a simple crank and



connecting rod directly connected with the center of the crank axis substantially in alignment with the axis of reciprocation of the agitator.

2,637,191
LAUNDRY FRAME
Arthur A. Reifschneider, Kansas City, Mo.
Application May 29, 1951, Serial No. 228,841
2 Claims. (Cl. 68—237)

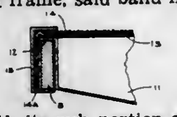


1. A laundry frame comprising a pair of side bars disposed in spaced apart substantially parallel relationship to each other and recessed at their ends to receive the upper edge portions of a bathtub, crossbars extending between said side bars one near each end of said pair of side bars and at least one intermediate the length thereof, the intermediate crossbar and one of the end crossbars being recessed to provide a seat for a washing machine and one of said side bars being adapted to provide a support for a clothes wringer, slats extending between said side bars in spaced apart relationship to each other and within the spaces between adjacent crossbars, and a drainboard extending between and pivotally connected at its ends to said side bars at the outer side of the other of said end crossbars and inclined relative to said side bars.

2,637,192
SPOTTING BOARD
Frank H. Richterkessing, Louisville, Ky.
Application April 3, 1947, Serial No. 739,245
5 Claims. (Cl. 68—240)

5. A trough construction for a spotting board comprising, an open perimetrical frame; a removable pan within the open frame having

marginal flange coextensive with the outer margins of the frame and supported solely by said flange resting upon the top edges of said frame; a cover for the said pan having a margin coextensive with the said flange and supported thereon; and a retaining band extending about the outside of said frame, said band having a channel section with its web portion arranged vertically and its two flanges directed inwardly, one flange engaging over the said cover throughout its length and the other flange engaging under the lower edge of the frame throughout its length for clamping said pan and said cover to the frame.

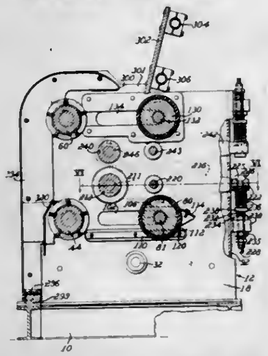


2,637,193

THROUGH-FEED MACHINE FOR TREATING SHEET MATERIALS

Donald B. McIlvin, Danvers, and Arthur R. Abbott, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application August 7, 1951, Serial No. 240,734
14 Claims. (Cl. 69—42)



1. In a through-feed machine for treating sheet material such as hides and skins, a casing presenting a work supporting surface over which spread-out work pieces may be consecutively presented, said surface extending above and terminating beyond the work treating zone of the machine, and means for feeding each of said work pieces through said zone as the leading edge thereof depends from said surface.

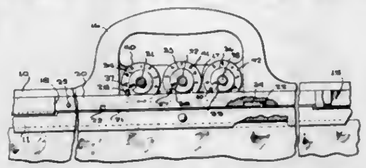
2,637,194

VALISE WITH PERMUTATION LOCK

Adolph Victor Pietri, Los Angeles, Calif.

Application July 3, 1952, Serial No. 297,148
1 Claim. (Cl. 70—66)

A valise comprising a pair of U-shaped frames pivotally interconnected at their ends for opening and closing movements relative to each other, a handle on one of said frames, said one frame having a lock housing therein between the ends of said handle and opening to one side thereof and having sockets spaced from the respectively opposite ends of said lock housing and opening toward the latter, a lock bolt extending through said housing and slidably received at its ends in said sockets, the other of said frames having its intermediate portion disposed adjacent the side of said bolt nearest the pivotal connections between said frames when said frames are closed together, pins projecting towards said bolt from said other frame at spaced apart locations along the intermediate portion, said bolt having L-shaped grooves therein through which said pins pass when said bolt is in its releasing position relative to said one frame and in which said pins are retained when said bolt is in its locking position relative to said one frame, detents projecting from said bolt within said lock housing and at spaced apart locations along said bolt, discs



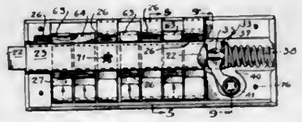
mounted in said housing adjacent said bolt for rotation about spaced apart axes and each having a detent receiving notch therein, said discs restraining said bolt from movement from its locking to its releasing position except when the notches in said discs are all in position to receive corresponding detents on said bolt, number dials secured one in each disc at one side of the latter for rotation about the rotational axes of the corresponding discs and projecting marginally from said housing at the side of the latter adjacent said handle, and a cover secured to said one frame in closing relationship to the open side of said lock housing.

2,637,195

KEYLESS TUMBLER LOCK

William W. Hurtel, Los Angeles, Calif.

Application July 12, 1949, Serial No. 104,229
13 Claims. (Cl. 70—153)



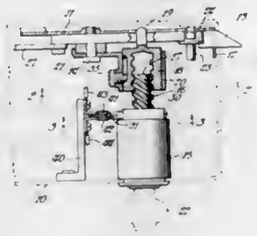
1. In a keyless lock of the kind described, a casing, an elongated, at times longitudinally movable locking bolt carrier mounted in said casing, a locking bolt carried by said carrier and independently movable in a lengthwise relation thereto, a spring within said casing tending to project said locking bolt, the latter being given a retractive movement independent of said carrier by closing the door, said carrier consisting of a channel shaped metal bar mounted in said casing with its open side directed horizontally, said bar comprising a pair of flanges united by a web a series of stop clamps detachably supported in a friction tight manner on each of said flanges, said stop clamps being attachable in the desired adjusted positions to predetermine the tumbler stop combination, a series of elongated tumblers the individuals of which extend in a crosswise adjacent relation to the carrier to cooperate with said stop clamps and are movably mounted within said casing for selective manual longitudinal movement to adjust them to release said carrier to permit its retraction together with the locking bolt which it carries, and manually operable means carried by said casing to retract said carrier and bolt.

2,637,196

LOCK SYSTEM FOR AUTOMOBILES

Fred Harmon Seaver, Jackson, Miss., and Robert J. Britt, Delavan, Wis.

Application February 3, 1950, Serial No. 142,198
2 Claims. (Cl. 70—264)



1. A lock system for automobiles comprising a mechanically operated master lock having a latch bolt, a locking pin for locking said latch bolt which is capable of assuming a locking position and an unlocking position, a rotatable spindle for actuating said locking pin, a contact closing member mounted on said spindle for rotation therewith, a pair of locking contacts and a pair of unlocking contacts, disposed in the path of said contact closing member for cooperation therewith to transmit first a locking impulse and then an unlocking impulse, or vice versa, depending upon the direction in which the spindle is rotated, and a secondary lock comprising a latch bolt, a double solenoid having a locking coil and an unlocking coil disposed in end to end relationship, said locking coil being in circuit with said locking contacts and the unlocking coil being in circuit with said unlocking contacts, a plunger for said solenoid for locking said last mentioned latch bolt and which is responsive to the energization of either said locking coil or said unlocking coil and is adapted to be moved from unlocking position into locking position, or from locking position into unlocking position, depending upon which of said respective coils are energized, and means for maintaining said plunger in either of said locking or unlocking positions after deenergization of said coils

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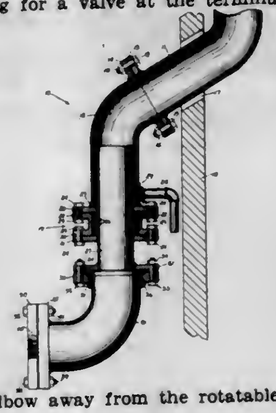
2,637,197

VALVE TESTING APPARATUS

Joseph F. Kaney, Philadelphia, Pa.

Application June 6, 1946, Serial No. 674,699
2 Claims. (Cl. 73—4)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A valve testing apparatus comprising a wall, a first pipe passing through said wall and exhausting to the atmosphere on one side of the wall, a vertically extending first elbow connected to said first pipe on the opposite side of the wall from the exhaust, a second pipe extending into said first elbow, an upper annular disc around the lower end of said first elbow, a lower annular disc about the lower end of said second pipe, a packing sleeve between said upper and lower discs, packing between said sleeve and said second pipe, a flange on the lower end of said second pipe, an annular disc connected to said flange, a second elbow rotatably connected to said annular disc, a coupling for a valve at the terminus of the



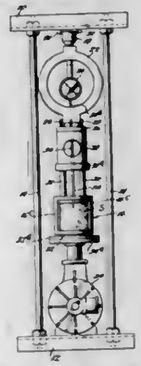
second elbow away from the rotatable connection.

2,637,198

METHOD OF AND APPARATUS FOR TESTING ASPHALTIC CONCRETE

Merlin G. Spangler and Ting Ye Chu, Ames, Iowa, assignors to Iowa State College Research Foundation, Inc., Ames, Iowa, a corporation of Iowa

Application April 27, 1950, Serial No. 158,566
5 Claims. (Cl. 73—15.6)



1. A device for testing asphaltic concrete mix or the like comprising in combination a cage with a cylindrical bore providing a plurality of windows in the walls thereof, closures adapted to mate with said windows respectively to define a cylindrical cavity to receive a pressure ram, and a pressure ram adapted to be received by the cage to fit on a sample therein and exert axial pressure thereon.

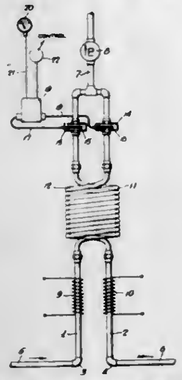
4. In a method of testing asphaltic concrete mix or the like, the steps of forming a cylindrical body from a measured quantity of asphaltic concrete at a predetermined temperature and in a moldable condition, forming an axially aligned temperature well in said body of relatively small cross sectional area, axially compacting said body to a uniform density while maintaining said well therein, cooling said body to a predetermined temperature as measured within said well to harden said body, and then subjecting said body to axial stress until said body is ruptured.

2,637,199

APPARATUS FOR COMPARATIVE INDICATION OF THE MOISTURE CONTENTS IN TWO GASEOUS MEDIUMS

Claes Gustaf Allander, Lidingo, Sweden, assignor to A. B. Svenska Flaktfabriken, Stockholm, Sweden

Application December 10, 1948, Serial No. 64,504
In Sweden December 11, 1947
9 Claims. (Cl. 73—29)



1. Apparatus for the comparative determination of the moisture content of two gaseous mediums comprising a pipe for the passage of each gaseous medium, means to heat the gaseous medium in each pipe to a predetermined temperature sufficient to maintain the temperature of each medium above its dew point, means to substantially equalize the temperatures of the gaseous mediums in the pipes, wet temperature sensitive devices responsive to the wet temperature of each gaseous medium, a differential thermostat connected to said devices and responsive to the difference between the wet temperatures of said gaseous mediums, and indicator means connected to said thermostat operable to indicate said temperature difference.

2,637,200

PNEUMATIC GAUGING DEVICE

Earl C. Adkins, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio

Application September 18, 1948, Serial No. 49,917
2 Claims. (Cl. 73—37.5)



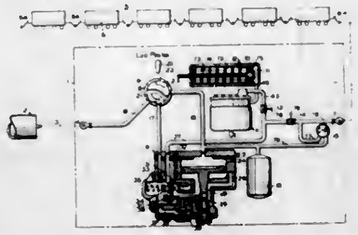
1. Gauging apparatus for comparing the size of a workpiece with a standard, comprising a generally cylindrical body portion having a fluid passage adapted for communication with a fluid supply and fluid measuring means, a plurality of annularly spaced axially extending strips fixed on said body portion and having superior hardness and wear-resistant qualities compared to the body portion and arranged to space the body portion from the workpiece surface, at least one of said strips comprising a molded bar having a hole in communication with the passage in the body portion, said bar having a channel around said hole with the bar portions inside said channel providing around the hole a cylindrically formed gauging surface which is slightly offset radially of the body portion from the outer surface of the surrounding portions of the bar, the size of said channel being such it lies entirely within the width and length of the bar, said bar having a surface groove extending from said channel to an edge of the bar.

2,637,201

AIR BRAKE TESTING APPARATUS

William F. Meier, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application May 20, 1949, Serial No. 94,450
10 Claims. (Cl. 73—39)



1. A device for testing the air brake equipment on the coupled cars of a train through the medium of the brake pipe extending through the train, comprising in combination, a fluid pressure supply conduit adapted to be connected to a source of fluid under pressure, a brake pipe conduit for connection with said brake pipe at one end of said train, valve means including an operator's control handle movable manually to a first position for operating said valve means to supply fluid under pressure from said supply conduit to said brake pipe conduit, to a second position for releasing fluid under pressure from said brake pipe conduit and to a third position for holding constant reduced pressure of fluid in said brake pipe conduit, a motor piston operable by fluid under pressure to move said handle to its first position, and means subject to pressure of fluid in said brake pipe conduit and an opposing pressure operative in response to a wave of reduction in pressure in said brake pipe conduit relative to said opposing pressure to supply fluid under pressure to said motor for actuating said piston and operative upon substantial equalization of pressure in said brake pipe and said opposing pressure to cut off supply of fluid under pressure to said motor, and means for releasing fluid under pressure from said motor with supply of fluid under pressure thereto cut off.

2,637,202

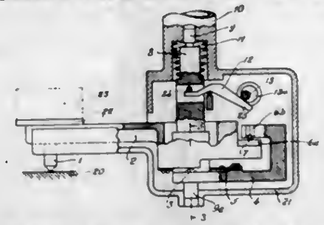
MICROHARDNESS TESTER

Heinrich Broschke, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application October 20, 1950, Serial No. 191,157
In Germany October 24, 1949
5 Claims. (Cl. 73—81)

1. In a hardness tester for materials, in combination, a penetrator, supporting means for the penetrator, a bearing element to which the supporting means is tiltably secured, cooperating contacts carried, respectively, by the bearing element and the supporting means, a shaft secured

to the bearing element, a spring mounted coaxially with the shaft and tending to depress the bearing element and said penetrator supporting means, a propelling mechanism adapted to initiate downward movement of the penetrator, an eccentric cam member driven by the propelling mechanism and a lever engaging said shaft and said eccentric cam member, said downward movement of the penetrator being initiated by cooperative engagement of the cam member



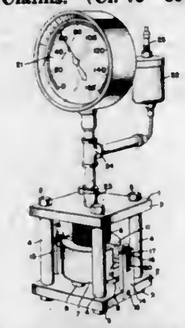
and the lever, a stop member carried by said propelling mechanism, a movable contacting member arranged to be interposed between said cooperating contacts, a movable member interposed between said stop member and said movable contacting member, and resilient means normally tending to withdraw said movable contact member from said contacts and project said interposed member in the path of said stop member to stop the propelling mechanism and the downward movement of the penetrator.

2,637,203

APPARATUS FOR MEASURING STRESS RELAXATION OF ELASTOMERIC MATERIALS

Samuel D. Gehman, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application September 30, 1950, Serial No. 187,715
6 Claims. (Cl. 73—89)



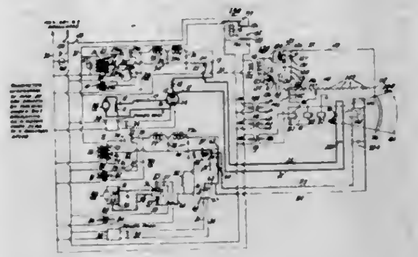
1. An apparatus for determining the stress relaxation of a material in compression, said apparatus comprising means for subjecting a specimen of said material to a predetermined deformation, said means including a pressure applying member, a sylphonic-type pneumatic chamber attached to said pressure applying member, a relief valve attached to and movable with said chamber, a control member adapted to operate said valve when said pneumatic chamber and pressure chamber move beyond a predetermined point whereby the pressure in said chamber is relieved and said pressure applying member is maintained in substantially the same position, and a pressure indicating device on said pneumatic chamber.

2,637,204

APPARATUS FOR TESTING DYNAMO-ELECTRIC MACHINES

Brooks H. Short, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 27, 1950, Serial No. 158,441
5 Claims. (Cl. 73—116)



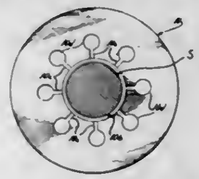
1. Apparatus for testing a dynamo-electric-machine operating as a motor and comprising means for preventing operation of the machine while current is being applied thereto for the purpose of operating the machine as a motor, means for rendering the operation preventing means non-operative to allow the machine to increase in speed from zero to a maximum value, two generators driven by the machine and each producing voltages proportional to speed, the rotating parts of the tested machine and the generators providing the mass to be accelerated, a cathode ray oscilloscope tube having pairs of cathode-beam-deflecting plates, one pair being arranged at right angles to the other pair, and having a screen on which the beam makes a visible trace, means for causing the electrostatic field between one pair of the tube plates to be sensitive to the amount of speed of one of the generators through application of said generator output voltage to said plates, and means for causing the electrostatic field between the other pair of tube plates to be sensitive to the rate of change of speed of the other generator through application of said other generator output voltage to said other pair of plates whereby the trace on the tube screen is an indication of speed-acceleration characteristics of the machine.

2,637,205

MAGNETIC PICKUP UNIT AND METHOD OF MAKING SAME

Kenneth W. Miller, Chicago, Ill., assignor, by mesne assignments, to C. Morgan Rifenbergh, Plymouth, Mich.

Application July 11, 1947, Serial No. 760,394
23 Claims. (Cl. 73—136)

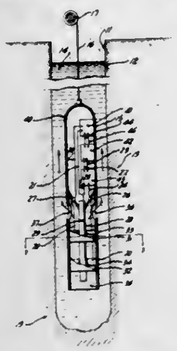


1. Apparatus for measuring torsional stresses in a circular cross section shaft comprising a pair of substantially identical electrically conducting

coils, and magnetic means for supporting said coils adjacent the shaft periphery in axially superposed relation, each of said coils being substantially perpendicular to the other and each of said coils having two sides thereof extending in a generally helical configuration with respect to said shaft, said helically extending sides of one coil being substantially perpendicular to the helically extending sides of the other coil and said helically extending coil sides of one coil also being interlaced with the helically extending coil sides of the other coil where said two coils intersect each other, whereby an equal area portion of each coil is relatively more radially displaced from the surface of said shaft than the remaining portion of each coil.

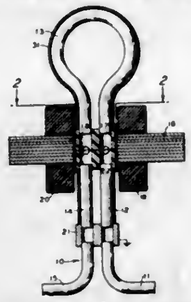
18. The method of assembling a magnetic pick-up unit which comprises forming a plurality of identical stacks of magnetic laminations, supporting said stacks in spaced alignment with the end faces thereof exposed, forming a winding separately from said stacks, applying the formed winding to said stacks, and forming the wound stacks into a generally annular segment array with said stacks disposed in spoke-like relation therein.

2,637,206
FLOWMETER
Earle R. Atkins, Jr., La Habra, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application October 13, 1949, Serial No. 121,166
3 Claims. (Cl. 73—155)



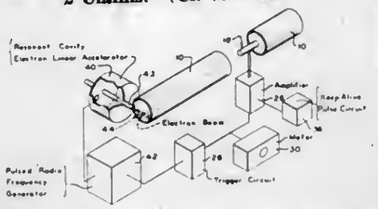
3. An apparatus for determining the flow rate of a substantially non-ionizable liquid which apparatus comprises a flow-conducting means for flowing said liquid from a first location to a second location downstreamwardly a fixed distance from said first location, a pair of charging electrodes fixed at said first location and insulated from direct electrical contact with said liquid flow, means for periodically supplying an electrical current to said charging electrodes for periodically establishing an electric field in an increment of said flowing liquid, a pair of detecting electrodes fixed at said second location, said charging electrodes and said detecting electrodes being normally submerged in said liquid, electrostatic field-detecting means connected across said detecting electrodes, and means electrically connecting said charging electrodes and said electrostatic field-detecting means for temporally correlating said periodic establishing of an electric field in said liquid increment with the detection thereof at said detecting electrodes.

2,637,207
MAGNETIC FLOWMETER
Desionde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 31, 1949, Serial No. 124,668
10 Claims. (Cl. 73—194)



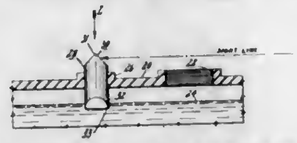
1. In a flowmeter, in combination, a conduit for carrying a fluid whose velocity is to be measured, means for establishing an alternating magnetic field in said conduit, said conduit having a bent portion so that the fluid therein passes through said field in one direction and then returns through the field in the opposite direction, means for measuring the potential induced in the flowing fluid by said field at two sections of said conduit at regions of equal magnetic field strength, the fluid flowing in opposite directions through said section, and means for adding the velocity components of the induced voltages in phase with one another.

2,637,208
VELOCITY MEASURING BY USE OF HIGH ENERGY ELECTRONS
Glenn L. Mellen, Framingham Center, Mass., assignor to National Research Corporation, Middlesex County, Mass., a corporation of Massachusetts
Application November 17, 1949, Serial No. 127,944
2 Claims. (Cl. 73—194)



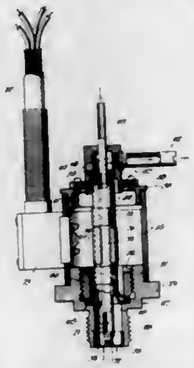
1. Apparatus for measuring the speed of relative movement between an object and a body of gas, said gas, due to said relative movement, moving in a stream past said object, said apparatus comprising means for introducing ionizing energy into said gas stream for a short period of time to create a cloud of ions in said gas stream, said means for introducing ionizing energy comprising a source of high energy electrons which are directed towards said gas stream with an energy level of at least 100,000 electron volts, means predeterminedly spaced downstream from said first-named means for detecting said ion cloud in said gas stream, said short period of time being less than the transit time of said ion cloud from its point of creation to said detecting means at the maximum speed of relative movement to be measured, means connected with said ion-detecting means for amplifying ion currents picked up thereby, a triggering circuit controlled by said amplifying means, a connection between said triggering circuit and said first-named means for causing the creation of a second ion cloud upon the arrival of a first ion cloud at said detecting means, and means connected with said triggering circuit and amplifying means for measuring the frequency of creation of said ion clouds, said frequency being a function of the speed of relative movement between said gas and said object.

2,637,209
ELECTROLYTE LEVEL INDICATOR
Thomas L. Kendall and Donald P. Gentry, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 23, 1950, Serial No. 186,410
1 Claim. (Cl. 73—327)



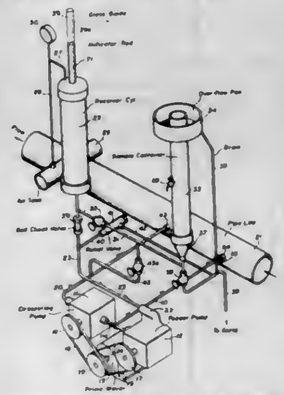
A battery level indicator adapted to be inserted through the cell cover of a battery cell, comprising in combination, a rod-like body member of light transmitting, acid resisting material having an upper face formed by two oppositely angled plane surfaces terminating in a knife edge extending across the body portion, the bottom end thereof having two similar angled surfaces rotated in a plane 90° from the plane of the upper surfaces, whereby the knife edges of upper and lower surfaces are crossed.

2,637,210
ELECTRIC PRESSURE HEAD
Claude M. Hathaway, Littleton, Colo.
Application February 10, 1950, Serial No. 143,394
3 Claims. (Cl. 73—398)



1. An electric pressure head comprising a casing having a chamber therein, a diaphragm mounted in one wall of said casing, means for mounting said casing to subject said diaphragm to pressure variations, a thin walled cylinder mounted at one end thereof within said casing, a cylindrical member arranged between the other end of said cylinder and said diaphragm and coaxially within said cylinder to subject said cylinder to tension in accordance with pressure exerted upon said diaphragm, a strain responsive wire element mounted on the exterior of said cylinder so to be responsive to tension thereof, a similar wire element mounted on the exterior of said cylinder so as to be non-responsive to tension thereof, electrical connections to said elements, and means for cooling the interior of said cylinder.

2,637,211
APPARATUS FOR OBTAINING SAMPLES FROM FLOWING STREAMS
James S. Norman, Jr., Bellaire, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application July 19, 1951, Serial No. 237,596
10 Claims. (Cl. 73—422)

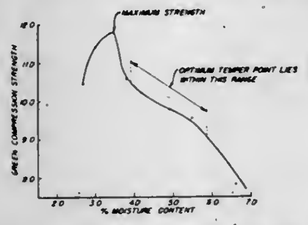


1. Apparatus for obtaining a sample from a flowing stream which comprises, in combination, a circulating pump, a sampling pump, a sample receiver, and a sample container, said circulating pump being adapted to take suction on and discharge to said flowing stream and to discharge a sample thereof into said sampling pump, said sampling pump being connected to said receiver and adapted to regulate the flow of sample thereto, and conduits connecting said pumps with said sample receiver and said sample receiver with said container.

2,637,212
OPTIMUM TEMPER MOISTURE DETERMINATION IN FOUNDRY SAND
William H. Moore, Larchmont, N. Y., assignor to Meehanite Metal Corporation, a corporation of Tennessee
Application July 14, 1950, Serial No. 173,852
1 Claim. (Cl. 73—432)

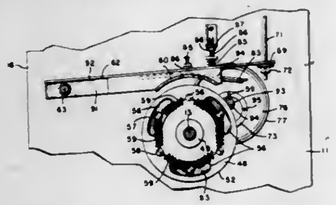
The process of determining optimum temper value of a sand mix comprising the steps of, providing a sand mix, taking a plurality of separate samples of said sand mix, ramming a sample of said sand mix with a series of ramming strokes, testing said sample after various intervals of ramming for permeability to thereby determine the degree of change of said permeability with progressive ramming, altering the moisture content of a second sample from the moisture content of the first tested sample and determining

the degree of change of permeability during progressive ramming, continuing testing of said plurality of samples in like manner each with a different moisture content, and selecting the



moisture content of the sand mix which displays the least amount of change upon altering the moisture content thereof to the next increment of moisture content as indicating the optimum temper value for the particular sand mix tested.

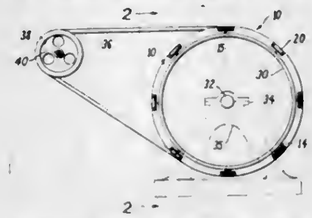
2,637,213
DRIVING MECHANISM FOR TREMOLOS
Conrad P. Krueger, Hopkins, Minn., assignor to Patent Management, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application April 14, 1948, Serial No. 20,932
2 Claims. (Cl. 74—111)



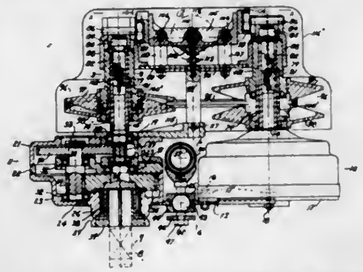
1. In a tremolo a rotatable driving element and a rotatable driven element, a spring positively connected at one end to said driving element and positively connected at its other end to said driven element and constituting a flexible coupling continuously acting between said driving element and said driven element and affording limited relative rotational movement therebetween, a brake drum rotatable with said driven element, a brake shoe for cooperation therewith, guide means for guiding said brake shoe for movement toward and from said drum and restraining circumferential movement thereof relative to said drum, a rotatable cam driven by said driving element, a cam follower engageable with said cam and resilient means acting between said cam follower and brake shoe, and resilient means urging said brake shoe toward said drum, said cam operating in opposition to both of said resilient means.

2,637,214
SHEAVE
Leon K. Morey, Gloversville, N. Y.
Application December 9, 1949, Serial No. 132,175
7 Claims. (Cl. 74—230.5)

1. The method of applying a sheave means to obtain a maximum of torque on an object to be rotated which comprises, disposing in end to end relation around the surface of said object a number of relatively thin, wide arcuate members each similarly grooved, with V-grooves and binding said members on said surface and making them conform to the curvature of said surface by tightening around them endless cables extending around said object and over said members.



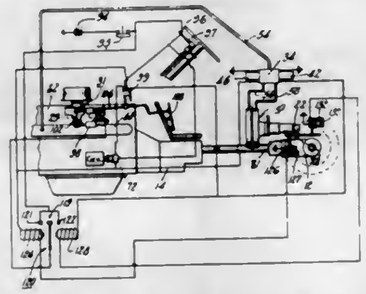
2,637,215
ADJUSTABLE SPEED TRANSMISSION
John D. Rieser, San Francisco, Calif.
Application July 10, 1947, Serial No. 760,045
19 Claims. (Cl. 74—230.17)



1. A variable speed transmission comprising, a driving shaft and a driven shaft rotatively supported in spaced parallel relationship, variable diameter pulley structures mounted in opposed cooperative positions on said shafts, each of said pulley structures comprising complementary sections slidably mounted relative to one another axially of said shaft, a control mechanism, a control actuating mechanism, a common support for said control mechanism and actuating mechanism disposing them intermediate one pair of adjacent ends of said shafts, a unit comprised of said control mechanism and pulley diameter adjusting mechanisms having operable connections with said pulley structure slidable sections and said control mechanism, said unit controlling the diameters of said pulley structures, resilient means between said control mechanism and said pulley diameter adjusting mechanism, said resilient means urging the complementary sections to close relative to one another and operatively effect no adjustment of the diameters of said pulley structures, an endless pulley belt trained about and between said pulley structures, and a constant belt path length maintained about and between the variable diameters of said pulleys.

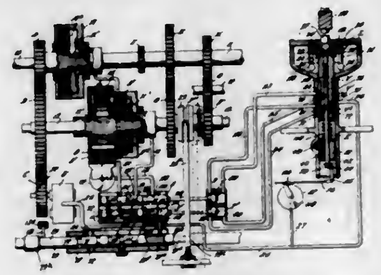
2,637,216
TRANSMISSION OPERATING MECHANISM
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 30, 1950, Serial No. 198,335
3 Claims. (Cl. 74—472)

1. In an automotive vehicle provided with a change speed transmission, internal combustion engine, and a carburetor including a throttle valve; power means for operating the transmission including a double acting pressure differential operated motor, valve means for controlling the operation of the motor including a double three-way valve, and electrical means for controlling the operation of the valve means including two solenoids for operating the three-way valve, a governor operated switch mechanism



electrically connected to the solenoids and comprising a governor operated by the engine, means providing two switches; together with means, including a relay mechanism, cooperating with the aforementioned electrical means and operative to effect a momentary closure of the throttle valve to facilitate an operation of the transmission operating mechanism, said means further including a solenoid for closing the throttle.

2,637,217
AUTOMATIC TRANSMISSION
Joseph C. Taylor, St. Louis, Mo., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application August 8, 1947, Serial No. 767,505
3 Claims. (Cl. 74—472)



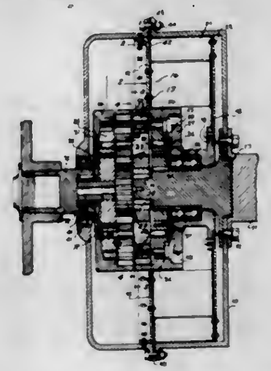
1. An automatic gear changing transmission for automotive vehicles including in combination, a source of fluid under pressure, a conduit into which fluid under pressure is discharged, said conduit having three spaced fluid discharge ports for the simultaneous discharge of three streams of fluid in parallel, a valve associated with each discharge port for controlling escape of fluid therefrom, a gear shift rod associated with one of said valves, the valve being disposed to close the associated port when the rod is moved from neutral position, a throttle control operatively connected to a second valve, a governor operatively connected to the third valve, and a propeller shaft to which said governor is operatively connected and by which it may be driven, the arrrangement being such that insufficient fluid under pressure is delivered through said conduit to the port controlled by said third valve unless said two first mentioned valves are closed.

2,637,218
MECHANISM CONTROL
Robert S. Hinsey, Toledo, Ohio, assignor to The Bingham-Herbrand Corporation, Toledo, Ohio, a corporation of Ohio
Application December 16, 1949, Serial No. 133,439
15 Claims. (Cl. 74—503)



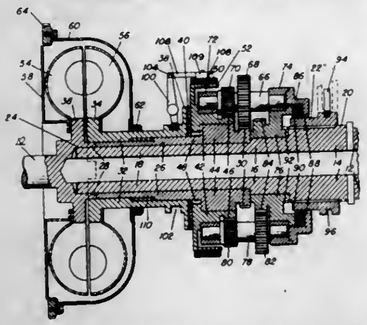
1. A mechanism control device including in combination, a support; a member mounted on said support and arranged for longitudinal slidable movement with respect thereto; a bracket articulately supported for movement relative to said support; locking means associated with said bracket and arranged to frictionally retain said member in longitudinally adjusted position; an element carried by said member and arranged for lateral movement relative thereto for engaging the bracket to effect a release of the locking means.

2,637,219
FLUID CONTROLLED TRANSMISSION
Virgil F. Stewart, East Cleveland, Ohio
Application August 25, 1950, Serial No. 181,416
5 Claims. (Cl. 74—688)



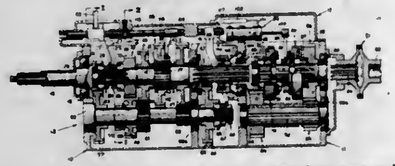
1. A power transmission device comprising a hydraulic coupling including two elements relatively rotatable about a common axis and having a mutual torque reaction; a power input shaft and a power output shaft concentric with the said axis, one of the elements being directly coupled to one of the said shafts; and gearing means coupled to both of the said shafts and the other element, said means comprising a sun gear on said one shaft, a spider mounted for rotation on said axis, a gear assembly carried by said spider, a ring gear affixed to the other element, and a second gear mounted on the output shaft, said assembly operably joining the sun gear and said ring gear and second gear.

2,637,220
TRANSMISSION
James S. Alspaugh, Portsmouth, Ohio
Application June 13, 1951, Serial No. 231,363
2 Claims. (Cl. 74—688)



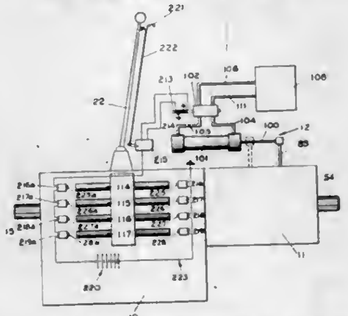
1. In a transmission, a driving shaft, a final driven shaft, a sun gear fixed to the driving shaft, a controlled sun gear, a carrier, pinion gears in the carrier interconnecting the sun gear fixed to the driving shaft and the controlled sun gear, a driven sun gear, pinion gears in the carrier interconnecting the controlled sun gear and the driven sun gear, clutch means to connect the driven sun gear to the final driven shaft, a fluid coupling comprising an impeller driven by the driving shaft and an axially shiftable turbine driven by the impeller, a clutch to connect the controlled sun gear to the turbine, means controlled by an increase of speed of the impeller to engage the clutch to connect the controlled sun gear to the turbine, a brake for the controlled sun gear, means to connect the carrier to the final driven shaft, and means operable by engagement of said clutch to release the brake, and to release the clutch upon engagement of the brake.

2,637,221
CHANGE-SPEED GEARING
Thomas Backus and Elliot L. Ludvigsen, Kalamazoo, Mich., assignors to Fuller Manufacturing Company, a corporation of Delaware
Application December 16, 1949, Serial No. 133,404
33 Claims. (Cl. 74—745)



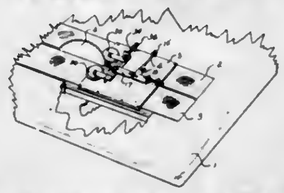
1. In a multiple change speed gearing assembly having a plurality of shift rods and means permitting only one shift rod at a time out of neutral position, the combination comprising: a first change speed gear group having a set of change speed gears controlled by said shift rods for effecting a plurality of successive gear ratios; a second change speed gear group coupled in series with the first gear group and having change speed gears effecting a pair of gear ratios whose speed differential is approximately one half step greater than the speed range of a selected portion of the first gear group; controllable means for automatically shifting the second gear group; a pair of control means for said controllable means in series with each other, one thereof being manually preselectable into and out of shift effecting position and the other thereof being actuable to its position for effecting shifting each time said first change speed gear group is in substantially neutral position, whereby upon appropriate preselection of said one control means said second gear group will shift immediately upon the entry of the first change speed gear group into neutral position.

2,637,222
SHIFT CONTROL FOR AUXILIARY TRANSMISSIONS
Thomas Backus, Kalamazoo, Mich., assignor to Fuller Manufacturing Company, Kalamazoo, Mich., a corporation of Delaware
Application January 12, 1951, Serial No. 205,751
22 Claims. (Cl. 74—745)



1. In a change speed transmission for a vehicle, the combination comprising: a first change speed gear section having an input shaft; a second change speed gear section, including friction clutch synchronizing means connected serially with said first change speed gear section and having an output shaft; means operable for automatically initiating shifting of said second change speed gear section upon the commencement of motion in said first change speed gear section from a shift position toward neutral position; and manually operable means for rendering said last-named means operable or inoperable at the will of an operator.

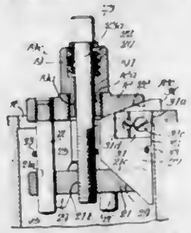
2,637,223
CONDITIONING APPARATUS FOR ROTARY SAWS
George M. Gustin, Wabash, Ind.
Application April 4, 1949, Serial No. 85,428
9 Claims. (Cl. 76—48)



1. An apparatus for conditioning the teeth of a rotary saw having a work support on at least one side thereof, comprising a base plate supported on the work support, means for rigidly clamping said plate to said support, an adjustable arm slidably mounted on the top of said base plate in

a plane parallel with the plane of said support, means for adjusting said arm on said base plate on a line at right angles to the axis of the saw, a conditioning stone support connected to and movable with said arm, a vertical axis mounted on said stone support, and a disc-like conditioning stone rotatably mounted on said axle and rotatable in a horizontal plane with its edge presented to the teeth of the saw.

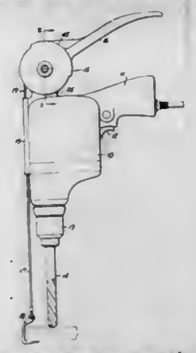
2,637,224
RIDGE REAMER
Wallace F. Mitchell, Chicago, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois
Application September 3, 1949, Serial No. 113,954
3 Claims. (Cl. 77—2)



1. A ridge reamer comprising a pair of spaced end plates, one of which is adjustable toward and from the other, means for adjusting said one end plate, a plurality of circumferentially-spaced and elongated supporting guide members carried by said end plates for expansion and contraction movements as said one end plate is appropriately adjusted, spring means surrounding the outer edges of said guide members and constantly urging them in contracting direction, each of said guide members having a radially projecting ledge at the top of the outer edge thereof adapted to rest upon the upper face of the cylinder having the ridge to be reamed to position the reamer therein, and one of said guide members having a longitudinal slot in its outer edge extending substantially throughout the length thereof, a rectangularly-shaped reamer blade member mounted in the slot of said one guide member, a pivot element bridging said slot against which said blade member pivotally seats, the upper outer edge of said blade member being formed to provide a cutting edge disposed immediately below the said ledge of said guide member, and the lower outer edge of said blade member being rounded transversely to provide a dull cylinder wall engaging surface, said spring means being positioned below the plane of said pivot element and engaging the outer edge of said blade member thereat to retain said blade member in place and to constantly urge its cutting edge portion outwardly.

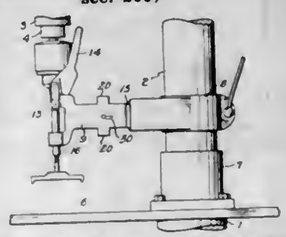
2,637,225
PORTABLE HAND DRILL
Burtis William Benbow, Benbow, Calif.
Application June 28, 1949, Serial No. 101,730
3 Claims. (Cl. 77—14)

1. In a portable drill comprising a motor, a chuck adjacent one end of and driven by the motor, the chuck being adapted to hold a bit, a reel mounted on the motor and having its axis intersecting the extended axis of the bit, a cable wound upon the reel and adapted to have one end of the same connected to a work piece, a lever pivotally carried by the motor for movements in opposite directions between limiting positions, and clutch means serving to operatively connect said lever to said reel, whereby when the lever is moved in one direction said reel is



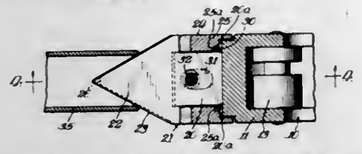
turned to tension the cable and thereby urge the drill against the work piece, said clutch means comprising a helicoidally formed spring wire, and a drum carried by the reel and about which the spring wire engages, one end of said spring wire having an operative attachment with said lever.

2,637,226
HOLDDOWN CLAMP
Edward G. Clark, Silver Spring, Md.
Application November 7, 1950, Serial No. 194,545
2 Claims. (Cl. 77—63)
(Granted under Title 35, U. S. Code (1952), sec. 266)



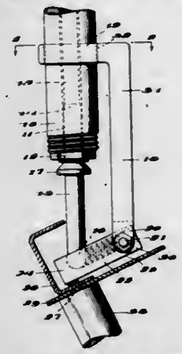
1. A work-holding attachment for a drill press or the like having a work-supporting table and a column perpendicular to said table, comprising a clamping collar having means for adjustably clamping same to said column, an arm extending from said clamping collar adjacent to the working surface of the work-supporting table, a second arm extending from said clamping collar adjacent to the working surface of the work-supporting table, said second arm including pin means for mounting said second arm to said collar thereby allowing the said second arm to move in a horizontal plane with respect to said collar, a toggle clamp carried at the end of each of said arms, each of said clamps having a plunger moving toward and away from the said work table and handle, a quick-acting irreversible mechanical linkage for controlling the motion of each of said plungers toward and away from said work table, said plungers being formed of hollow cylinders the insides of which are screw threaded and work-engaging hold-down feet mounted on cylindrical shafts said shafts having external screw threads for engaging the said screw threads inside of said hollow plungers.

2,637,227
TUBE WORKING TOOL
Robert D. McIntosh, River Forest, Ill., assignor to The Imperial Brass Manufacturing Company, a corporation of Illinois
Application September 9, 1949, Serial No. 114,710
2 Claims. (Cl. 77—73.5)



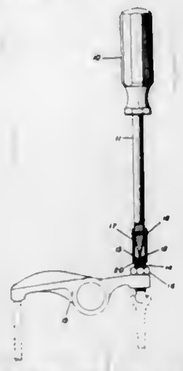
1. A tube working tool comprising a body member having a projecting end portion; a reamer member fixedly mounted on said end portion, said reamer having a pointed V-shaped blade the sides of which form cutting edges; a sheath member having a tube-engaging end with a symmetrical pair of conical shaped walls converging toward an apex and a slot containing said reamer and extending from the apex and opening through said walls on opposite sides throughout the entire length of the conical portion thereof, said sheath member being slidably mounted on said end portion for movement between a first terminal position wherein said reamer is entirely housed within said sheath member and a second terminal position wherein the point of said blade projects beyond the apex of said sheath member and wherein said cutting edges project out of said slot throughout the entire length of said conical portion; means in said projecting end portion for limiting sliding movement of said sheath member and anchoring said reamer member in said end portion; and spring means for yieldably biasing said sheath member to said first terminal position.

2,637,228
CLOSE-QUARTER PEEN
William P. Goede, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application May 17, 1949, Serial No. 93,705
4 Claims. (Cl. 78—46)



1. A tool for operation with a portable percussion-type rivet gun having an extended housing and a hammer member comprising a percussion member having a shank end adapted for insertion within the gun housing to engage the gun hammer, said percussion member being formed with a spherical free end, a bracket adapted for slidable mounting on the gun housing and having an end portion spaced from the spherical end of the percussion member, a riveting block having one end hinged to the end of the bracket with the other end in pivotal engagement with the free end of the percussion member and adapted to effect delivery of force from the rivet gun.

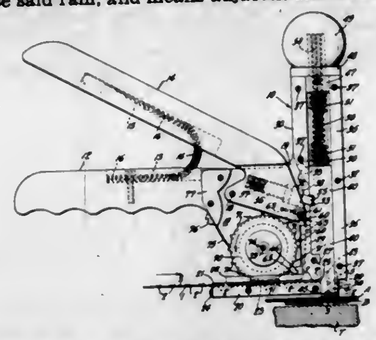
2,637,229
TAPPET ADJUSTING TOOL
Robert E. Lee, Baltimore, Md.
Application September 26, 1950, Serial No. 186,851
1 Claim. (Cl. 81—3)



In a tool of the class described for adjusting a valve tappet provided with a smooth free end and with a transverse slot at said end, a screw driver having a straight handle, a solid shank secured to, aligned with and extending from one end of the handle, said shank terminating in an integral, straight sided chisel pointed bit, a cylindrical sleeve, means for securing said sleeve to the shank at a point adjacent to but spaced from the end of the bit, said sleeve being co-extensive with said bit so that the free ends of the sleeve and of the bit lie in the same plane, said screw driver and sleeve operating as a unit, the internal diameter of the sleeve being of a size to engage and be guided by the smooth free end of the valve tappet while the bit engages the aforesaid slot, both the bit and the sleeve rotating together when the handle of the screw driver is rotated, and an indicating mark parallel to the axis of the shank and in alignment with the bit.

2,637,230
TOOL FOR APPLYING SHEET METAL FASTENERS TO STUDS
George A. Tinnerman and Laurence H. Flora, Cleveland, Ohio, assignors to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 14, 1951, Serial No. 226,241
10 Claims. (Cl. 81—3)

1. A tool for applying fasteners comprising a supporting structure having a guide channel therein for a strip of fasteners to be applied, an operating lever and a reciprocable ram movably mounted in said supporting structure, said ram being normally in lowered position, coupling means between said lever and ram whereby movement of said lever actuates said ram to raised position, a feed wheel adjacent said guide channel for advancing said strip to locate a fastener under said raised ram in position to be applied by said ram, means connected to said lever and engaging said feed wheel for actuating said feed wheel at the same time said lever operates to raise said ram, and means adjacent said ram en-



gageable with said coupling means for releasing said lever from coupled relation with said ram in raised position to permit said ram to descend for a fastener applying operation.

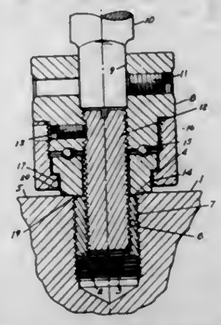
2,637,231
TUBE BENDING PLIERS
Otto Schopp, Phoenix, Ariz., assignor of one-half to George L. Sims
Application February 14, 1949, Serial No. 76,346
1 Claim. (Cl. 81—15)



A tool for forming angular bends in tubes comprising die heads and means for supporting and moving said die heads toward and from each other, said die heads having complemental tube engaging faces each including straight portions disposed in the same angular relation to each other to which the tube is to be bent, said straight portions being grooved and joined midway of the die faces by a grooved curved section and said straight grooves and said joining groove being semi-circular in cross section and dimensioned so as to contact the tube throughout a semi-circular area and thus distribute the bending forces applied to the tube so that the bending of the tube is accomplished without any appreciable change in the cross-sectional shape of the tube at the bend.

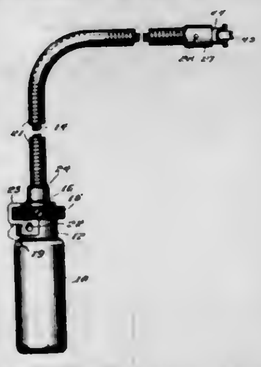
2,637,232
TAPPED INSERT DRIVER
Boyd A. McKean, Erie, Pa., assignor to Titan Tool Company, Fairview, Pa., a corporation of Pennsylvania
Application March 21, 1952, Serial No. 277,878
1 Claim. (Cl. 81—53)

A tool for driving externally threaded internally tapped inserts or bushings into threaded holes in a structure, comprising a body for connection to a reversible power drive, the body having an externally threaded drive member for threading into the insert, a stop, means rotatably mounting the stop on the body and including a thrust bearing forming an anti-friction connection between the stop and body, said stop having a surface engaging the upper end face of an



insert threaded on the drive member and a surface engaging the structure to limit the depth the insert is driven into the structure, the thrust bearing permitting reverse movement of the drive member in relation to the stop upon reversal of the power drive while the jamming of the stop against the structure initially holds the insert against reverse movement out of the threaded hole in the structure.

2,637,233
WRENCH HANDLE HAVING DETACHABLE HAND WHEEL AND FLEXIBLE SHAFT
Theodore E. Hoffman, Van Nuys, Calif.
Application June 25, 1948, Serial No. 35,165
2 Claims. (Cl. 81—54)



2. In a flexible socket wrench, the combination which comprises a flexible shaft, a flexible sleeve extended over the flexible shaft, a coupling ring carried by the outer end of the sleeve, a stud journaled in the coupling ring and carried by the outer end of the flexible shaft, a handle aligned with and extended from the end of the said flexible shaft and sleeve opposite to the end on which the coupling sleeve is positioned, a U-shaped bracket carried by the end of the handle and having a hub on the outer end in which the flexible sleeve is mounted, and a knurled disc fixedly

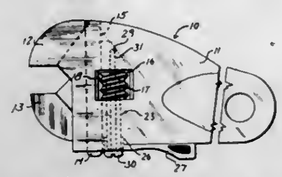
mounted on said flexible shaft and positioned in the U-shaped bracket whereby the stud is rotated through the flexible shaft and knurled disc by the thumb of a hand on the handle.

2,637,234

LATCH FOR THE SLIDABLE MEMBERS OF JAW WRENCHES

Bert M. Bockelman, Clarksville, Ohio

Application April 23, 1951, Serial No. 222,403
1 Claim. (Cl. 81—165)



In a wrench of the type described, comprising in combination with such a wrench having a handle with a fixed jaw integrally formed with said handle, an opposed movable jaw with an extended portion adapted to slide in said handle and said handle having a rectangular opening therethrough, the provision of an adjusting spirally threaded nut rotatably mounted in said opening, said extended portion provided with teeth on its inner edge engageable with the spiral threads on the said nut, an elongated screw having threads on its one end portion and extending from the exterior edge of said handle through said opening and said nut and threadably engaged in said handle, a means for holding and locking said movable jaw in various selective positions, said means including a circular recess in said handle and encompassing said screw head, a locking sleeve extending partially into said opening and radially mounted on said screw and having a cam face adjacent each side of the juncture between said sleeve and said handle.

2,637,235

SUPPORT MEANS FOR SLIDABLE JAW WRENCHES

Vincent Licari, Kansas City, Mo.

Application June 11, 1951, Serial No. 230,900
2 Claims. (Cl. 81—180)



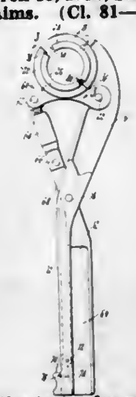
1. In a conventional wrench structure having a head portion and an extended handle portion, an elongated cutout located on the under side of the head portion and extended in the direction of the handle portion, an elongated arm generally conforming to the cutout in shape and dimensions and having a flat base portion for contact with a supporting surface, means for pivotally mounting the elongated arm on the head portion of the wrench within the cutout, whereby the arm may be swung to a laterally extended position to act in conjunction with the wrench handle as a support for the wrench on a flat surface, with the wrench jaws facing upward, and means for latching the arm within the cutout when its supporting function is not required.

2,637,236

LINER FOR THE JAW FACES OF PIPE WRENCHES

Evo Vergnani, Stanley E. Vergnani, and Milton H. Vergnani, Somerville, Mass., assignors to Somerset Machine & Tool Co., Inc., Boston, Mass., a corporation of Massachusetts

Application March 19, 1952, Serial No. 277,382
2 Claims. (Cl. 81—180)



1. A liner for the jaws of a pipe wrench, comprising two semi-cylindrical members arranged so that the straight edges of one member are respectively opposed to the straight edges of the other, each said member having a small hole extending from a straight edge face thereof to a point on the outer cylindrical surface thereof, and a tie element joining said members and extending loosely into said holes.

2,637,237

RECESSING ATTACHMENT

Donald H. Montgomery, West Hartford, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut

Application March 18, 1947, Serial No. 735,375
13 Claims. (Cl. 82—24)



1. In a machine of the character indicated, a movable tool slide, tool-holder means on said slide and movable relatively to said slide, feed means for said tool-holder means, and actuable relatively to said tool slide upon a movement of said slide, and stop means cooperating between said tool-slide means and said tool-holder means and including adjustable means carried with one of said tool-slide and tool-holder means for determining a limiting feed position of said tool-holder means, said adjustable means including cam abutment means and adjustable mechanism for controlling the effectiveness of said cam abutment means.

2,637,238

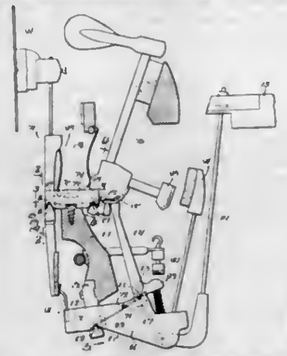
PIANO ACTION

Paul F. Murdock, Clinton, Conn., assignor to Pratt Read & Co., Inc., Ivoryton, Conn., a corporation of Connecticut

Application January 17, 1951, Serial No. 206,445
In Great Britain February 7, 1950
8 Claims. (Cl. 84—240)

1. In a piano action, a flange secured to a fixed rail, a whippen and a fly jack, said flange and

said fly jack being pivotally interconnected with said whippen and each including a reduced part with an aperture therein and portions with sharp edges projecting on the sides of said reduced part, said whippen having a pair of openings therein adapted to receive said reduced parts of said flange and said fly jack and portions on the sides of said openings having grooves therein



for receiving said sharp edges, said sharp edges on said fly jack engaging said whippen on one side thereof and said sharp edges on said flange engaging said whippen on the side opposite to said one side, and a spring member engaging said whippen having ends extending in said apertures in said flange and said fly jack for holding said sharp edges in said grooves.

2,637,239

EMBOUCHURE ARCH

Ziegner Swanson, De Kalb, Ill.

Application March 18, 1949, Serial No. 82,207
12 Claims. (Cl. 84—384)



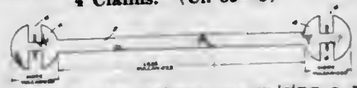
1. In a wind instrument of the flute type, the combination with the mouthpiece portion in which a hole is provided, of an inverted generally U-shaped arch adapted for instrument positioning engagement with an appreciable area of the front of the upper lip of a player, said arch being supported in straddling relationship to said hole and in a plane longitudinally of the flute and disposed substantially radially with respect to the mouthpiece portion, the opening between the legs of the U-shaped arch permitting the player to direct his blowing through the arch and across the hole in the mouthpiece.

2,637,240

LICENSE TAG FASTENER

Henry A. McClellan, Jacksonville, Fla.

Application February 13, 1950, Serial No. 143,864
4 Claims. (Cl. 85—5)



1. A license tag fastener comprising a plane strip of rubber of a normal length somewhat less than the space between the slots in a license tag and enlarged heads integral with said strip at either end thereof and in the plane thereof and adapted to pass through such slots, each head having notches opening in its opposed edges directed transversely with respect to the longitudinal axis of the strip, said notches extending completely through the head in a direction perpendicular to the plane of the strip.

2,637,241

STUD FOR EXPLOSIVE INSTALLATIONS

Charles R. Webber and Virginius R. Erickson, Portland, Oreg., assignors to Powder Power Tool Corporation, Portland, Oreg., a corporation of Oregon

Application December 31, 1949, Serial No. 136,186
2 Claims. (Cl. 85—10)



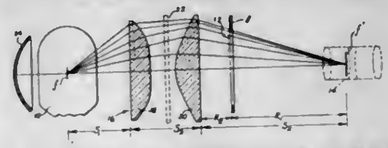
1. A stud for insertion into the surface of a work piece by its ejection through the bore of an explosively actuated driving tool; said stud comprising a body having a cylindrical head at one end and a surface penetrating shank at its other end, the head providing a shoulder to limit the penetration of the shank, and a deformable resilient frictional retainer on said shank and extending outwardly and around the perimeter of the shank, whereby said retainer when the stud is inserted in the bore of said explosively actuated tool will be deformed to frictionally retain said stud in any selected position along the bore and act as a seal for the explosive charge used to eject the stud.

2,637,242

CONDENSER LENS SYSTEM FOR PROJECTORS

Harold Osterberg and Robert M. Muller, Buffalo, N. Y., and Rudolf K. Luneburg, Los Angeles, Calif., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application February 8, 1949, Serial No. 75,112
26 Claims. (Cl. 88—24)



1. A condenser lens system for use in a projection device and adapted to control the direction and distribution of light rays at the projection aperture of said projection device, said condenser lens system having conjugate object and image planes spaced a predetermined finite axial distance apart, said system comprising convergent lens means of predetermined refractive properties and embodying optically aligned refracting surfaces intersecting the optical axis of said system at given locations and with two of said refractive surfaces being adjacent correlated aspherically shaped surfaces having their vertices arranged in predetermined axially aligned and spaced relation to each other, said convergent lens means being constructed and arranged to collect light from a relatively small light source

axially located at said object plane a predetermined distance therefrom and to focus said light at said image plane as an image of predetermined magnification, the first surface of said pair of aspheric surfaces being of such varying curvature as to direct the light rays received from said source toward said second aspheric surface in a controlled manner to effect a predetermined zonal distribution of the light rays thereon, and said second aspheric surface being of such predetermined varying curvature as to refract the rays so received in such predetermined directions that they provide, upon leaving the condenser lens system, a controlled zonal light distribution at the plane of the projection aperture intermediate the convergent lens means of said system and said image plate, said system being substantially free from spherical aberration.

2,637,243

VARIABLE PHASE CONTRAST MICROSCOPE

Helmut Marx, Giessen, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application April 26, 1949, Serial No. 89,652
In Germany November 20, 1948
7 Claims. (Cl. 88—39)



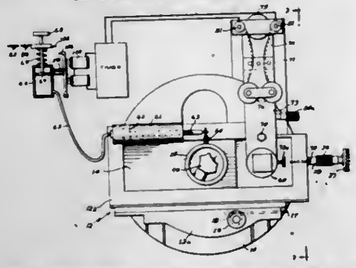
7. In a phase microscope having a generally annular condenser diaphragm whose image is projected by a condenser and an objective in an exit pupil of the objective: at least one pair of phase plates adjacent each other and disposed in a plane corresponding to the rear focal plane of the objective, a generally annular light phase-changing layer increasing in thickness in clockwise direction on one of said plates, and a generally annular light phase-changing layer increasing in thickness in counter-clockwise direction on the other of said plates, the two plates being mounted for rotation relative to each other.

2,637,244

APPARATUS FOR MICROSCOPIC ANALYSIS

Bentley H. McLeod, Malvern, Ark.

Application October 29, 1947, Serial No. 782,769
11 Claims. (Cl. 88—39)



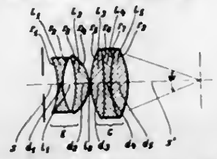
7. Apparatus for the microscopic analysis of minerals comprising a microscope, a microscope stage, a slide mounted on said stage and adapted to carry a mineral specimen beneath the microscope objective for analysis, a reagent applicator mounted at a fixed substantial distance from the microscope objective to apply reagent to a particular limited portion of the specimen, means for moving the slide from beneath the objective to beneath the reagent applicator, means for limiting the movement of the slide to said fixed distance so that the particular limited portion of the specimen brought directly beneath the applicator is the same particular limited portion thereof that was directly beneath the microscope objective, and means for actuating delivery of a reagent to said particular limited portion of the specimen and for actuating return of the slide to bring said particular limited portion of the specimen again directly beneath the objective for observation.

2,637,245

EYEPIECE FOR OPTICAL INSTRUMENTS

Maximilian Ludewig, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application October 11, 1950, Serial No. 189,497
In Germany October 31, 1949
8 Claims. (Cl. 88—57)



1. An eyepiece for a telescope having a large distance from the exit pupil to the last lens of the eyepiece and comprising, in this order of construction, a diaphragm, an optical component consisting of an unattached bi-concave negative lens and a positive meniscus shaped lens positioned with its surface of greater curvature located on the side of the observer's eye, with the first three surfaces nearest the diaphragm strongly curved, the focal length of the biconcave lens being between ½ and 2F and the focal length of the entire component being between 4F and infinity, the focal length of the eyepiece being F, and a following positive optical component comprising at least three lenses of which at least two are cemented together, said positive component including a positive lens nearest the meniscus shaped lens and being followed by a negative and a positive lens.

2,637,246

GLARE SHIELD FOR REAR VISION AUTOMOBILE MIRRORS

Joseph Wolk, Trumbull, Conn.

Application December 20, 1949, Serial No. 133,979
1 Claim. (Cl. 88—77)



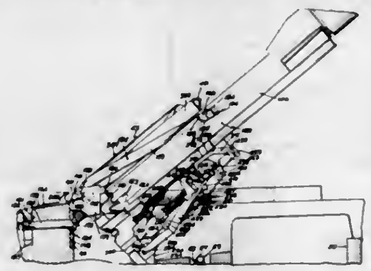
A glare shield for mounting upon a rear vision automobile mirror of rectangular form, comprising a rectangular piece of inherently resilient wire mesh of a size to substantially cover the vision side of the mirror, said piece of wire mesh being of generally C-form in vertical transverse section and being straight longitudinally whereby it has vertically opposed marginal channel portions at its longitudinal edges and is convexly curved outwardly between said channel portions, a rectangular frame engaged about the edges of said wire mesh and comprising relatively stiff straight longitudinal portions engaged with the longitudinal edges of said wire mesh along their entire lengths for disposition at the rearward side of said mirror inwardly of its longitudinal edges, and resiliently flexible transverse portions of generally C-shape engaged with the end edges along their entire lengths and secured at their ends to the ends of said longitudinal portions, said transverse portions being provided at their upper and lower ends with vertically opposed channel portions conforming to said channel portions of said wire mesh for engagement about the upper and lower edges of said mirror and being convexly curved intermediate said channel portions in conformity to the convex curvature of said wire mesh, and whereby said channel portions of said transverse portions and of said wire mesh screen are adapted through inward flexing of said transverse portions intermediate said channel portions to be sprung outwardly from each other for engagement and disengagement with respect to said mirror and are adapted to be resiliently drawn toward each other to clampingly engage with the edges of said mirror whereby the intermediate portion of said wire mesh is supported in outwardly curved spaced relation to the mirror surface.

2,637,247

GAS-OPERATED SELF-EJECTING AND SELF-LOADING FIREARM

Harry W. Hester, Chenoa, Ill., assignor of one-third to Glen C. Simpson, St. Charles, and one-third to Robert H. Wendt, Chicago, Ill.

Application May 12, 1948, Serial No. 26,623
18 Claims. (Cl. 89—192)



1. In an improved structure for securing the breech of a firearm barrel to a stock, the combination of a barrel and a stock, the barrel being pivotally mounted on the stock, and a toggle link extending from a point on the stock behind the pivotal mounting of the barrel to a point on the barrel in front of the pivotal mounting on the barrel, said link being tightened in tension as the barrel has its forward end pivoted downward on the stock until the link passes dead center.

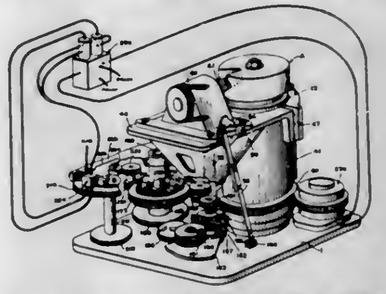
2,637,248

VANE GENERATING MACHINE

George F. Wisiicenus, Toledo, Ohio, and Peter C. Zumbusch, Upper Montclair, N. J., assignors to Worthington Corporation, a corporation of Delaware

Application September 16, 1947, Serial No. 774,272
21 Claims. (Cl. 90—11.54)

1. A generating machine comprising a base plate, a vertical support column mounted on said base plate, a cylindrical work holding table rotatably mounted on said column, a tool table slidably mounted on said cylindrical work holding table for vertical movement, said tool table having at least one horizontal table-like extension, at least one cutter fixed to said extension, a cutting tool included in said cutter, said cutter being arranged so that the axis of said tool is substantially horizontal and radial with respect to the axis of the column, first means included in said cutter head for moving said tool radially with respect to the axis of said column, means for moving said tool table vertically comprising a lead screw threadably connected to said tool table and driving means for rotating said lead screw, means for rotating said work holding table and for varying the ratio of its rate of rotation to the rate of vertical movement of the tool table comprising planetary differential gearing including planet gears, a ring gear, and a sun gear, a gear



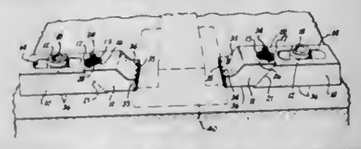
train operatively connecting said lead screw to said sun gear, a gear train operatively connecting said ring gear to said cylindrical work table, a plate cam, a gear train operatively connected to said driving means and to said cam for rotating said cam, a cam follower operatively connected to the periphery of said cam and to said planet gears to transmit variations in the radius of the peripheral contour of said cam into orbital movement of said planet gears and thus vary the transmission ratio between said sun gear and said ring gear in accordance with variations in the radius of the cam periphery, change gears included in said gear trains for varying the transmission ratios thereof, and a member connected to said first means and to said base plate for actuating said first means upon movement of said tool table to radially move said tool in proportion to the vertical movement of the tool table.

2,637,249

CLAMP

Henry F. Swenson, West Orange, N. J.

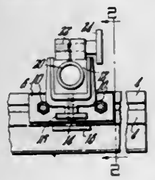
Application July 9, 1949, Serial No. 103,806
1 Claim. (Cl. 90—59)



A clamp for fixing the position of a workpiece on a plane smooth supporting surface, said clamp comprising a block having a generally plane bottom surface adapted to be secured to the supporting surface, a jaw slidably mounted on said block and adapted to engage the workpiece,

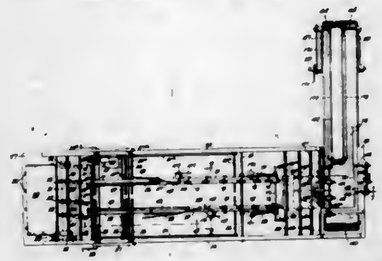
means to adjust the jaw on the block, said block having a longitudinal slot extending toward said jaw with a hold down screw passing through the slot and engaging a part under the supporting surface, the upper end of the longitudinal slot being enlarged to receive the head of the hold down screw and to provide a tapered shoulder, said tapered shoulder extending at an angle with respect to said bottom surface and sloping away from said bottom surface toward said jaw, the head of said hold down screw being engageable with said tapered shoulder, the bottom surface of said block having a myriad of biting projections which, due to the thrust developed by the tapered shoulder acting against the head of said hold down screw, bite into and firmly engage the supporting surface.

2,637,250
PAPERMAKING APPARATUS
Benjamin E. Teale, Dalton, Mass.
Application June 21, 1950, Serial No. 169,352
3 Claims. (Cl. 92—44)



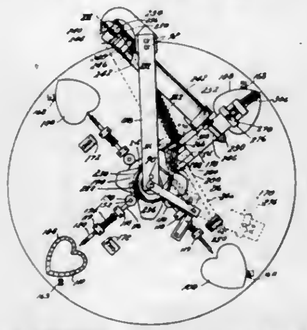
1. The combination with transversely spaced elongated horizontal side plates of a paper machine of a slice construction adapted for adjustment along said plates to position the slice plate thereof angularly with its lower edge positioned relative to a Fourdrinier wire which may be disposed between lower edges of said side plates comprising, elongated guide plates extending longitudinally of and secured to said side plates cooperating therewith providing elongated horizontal guideway slots, brackets slidable relative to said plates and having portions slidable in said slots and means for securing said brackets thereto in adjusted positions, boxes slidable up and down vertically in said brackets, manually engageable means threadedly engaging said brackets for elevating and supporting said boxes, said boxed provided with aligned horizontal bores, a transverse support having opposite ends rotatably adjustable in said bores and means for clamping said support in said bores, separate slice plate brackets rotatable on said support and means releasably holding said slice plate brackets in spaced relation on said support and against rotation relative thereto, said slice plate brackets provided with elongated upper and lower arms extending radially away from said support and having outer relatively spaced ends, an elongated slice plate extending between said side plates having an upper longitudinal edge portion secured to outer ends of the upper arms of the slice plate brackets, and separate manually adjustable connections between said lower arms and lower longitudinal edge portion of said slice plate, all adapted and arranged whereby said slide construction may be secured in adjusted positions along said side plates and said support may be rotated to adjusted positions to position said slice plate at various angles and the lower edge of said slice plate may be adjusted relative to a Fourdrinier wire disposed adjacent lower edges of said side plates.

2,637,251
GLUED FLAP BOX FOLDING MACHINE
Francis J. Spiess, Rochester, N. Y., assignor to Kleckhefer Container Company, Camden, N. J., a corporation of Delaware
Application October 26, 1950, Serial No. 192,275
12 Claims. (Cl. 93—49)



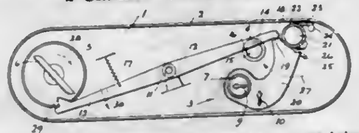
1. In box forming machinery, the combination which comprises a flap-cutting roll, a crusher for said flap, a crusher for the box blank in an area positioned to register with the flap when the blank is folded, a first box blank folding arm rotatably mounted adjacent the folded edge of the box blank, a second box folding arm rotatably mounted in staggered relation to the opposite edge of the folded box blank, means for timing said box folding arms with respect to the conveyer belt, a concave crushing roll mounted on either side of the edge of the advancing box blank, a backstop against which the folded box blanks are delivered after passing through the conditioning rolls, aligning means for beating up the folded box blanks against the backstop, and a second conveyer for carrying the folded box blanks transversely away from the backstop.

2,637,252
BOX ASSEMBLY MACHINE
Robert E. Swisher, Kansas City, Mo., assignor to Robert E. Swisher, Charles C. Cockrell, and Earl L. Cossairt, all of Kansas City, Mo.
Application January 14, 1950, Serial No. 138,665
5 Claims. (Cl. 93—55)



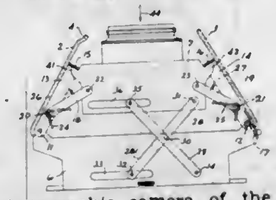
2. A box assembly machine comprising a frame, a rotatable table carried by said frame, means for rotating said table in one direction, a plurality of work receiving forms carried by said table in peripherally spaced relation, an arm carried by said frame for oscillation coaxially with said table, said arm being disposed above and radially relative to said table, a pressure foot carried for vertical movement at the free end of said arm, a releasable driving connection to said arm whereby said arm is caused to turn with said table through a partial revolution with said pressure foot in registered relation above one of said forms, means operable by the rotation of said table as said arm turns therewith to move said foot downwardly against said form, means operable by the rotation of said table to simultaneously elevate said foot and release the driving connections to said arm, and resilient means for turning said arm in a reverse direction to its original position.

2,637,253
INDICATING DEVICE FOR PHOTOGRAPHIC CAMERAS
Walter Noack and Helmut Naumann, Braunschweig, Germany, assignors to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany
Application December 4, 1950, Serial No. 198,924
In Switzerland December 22, 1949
2 Claims. (Cl. 95—31)



1. In a photographic camera comprising a shutter and first means for releasing the shutter; second means for locking and freeing said means for releasing the shutter, said second means including a two-armed lever pivotally connected in its central portion to the camera body; an indicating device comprising a one-armed lever pivotally connected to the camera body, provided with a first and second mark, and adapted to be pivotally moved to a first and second end position and exhibit in a window of the camera body said first and second mark directly indicating a camera element to be actuated next, in said first and second position, respectively; said one-armed lever being elastically pressed against an end of said two-armed lever and its movements being controlled by said end of the two-armed lever.

2,637,254
STRUT OR SPREADER SYSTEM FOR FOLDING PHOTOGRAPHIC CAMERAS
Fritz Faulhaber, Schonthal, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany
Application May 2, 1951, Serial No. 224,103
In Switzerland May 5, 1950
12 Claims. (Cl. 95—39)



1. A photographic camera of the type described, in which the objective and its carrying means are retractable into the camera body to a rest position and capable of being advanced from said body to a ready for use position, comprising in combination an objective fastened to an objective carrier; a camera front cover formed by two registering wings adapted to cover the objective lens in closed position and to be moved to an open position of the camera; a spreader system for causing movement of the objective and objective carrier from rest position to the ready for use position, said system comprising at least one pair of spreaders, each of which is connected to a cover wing, and consists of a one-armed lever pivotally connected at one of its ends to a camera part; links, each of which is connected to the objective carrier and to a spreader, for holding said carrier and causing the spreaders to swing away from the optical axis, in a first phase, and to move toward the optical axis, after passing a turning point, in a later phase of the movement of the objective carrier from rest position to the ready for use position of the objective.

2,637,255
PHOTOGRAPHIC CONTACT FRAME
Albert Pleydell and Rose Pleydell, Bellerose, and Jean F. McIntyre, Flushing, N. Y., assignors to Flambard, Inc., New York, N. Y., a corporation of New York
Application June 28, 1950, Serial No. 170,852
3 Claims. (Cl. 95—77)

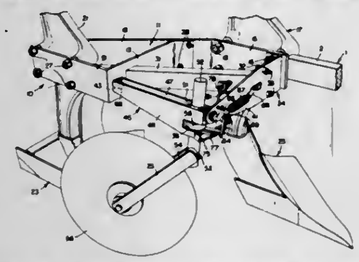


1. A contact frame for exposing sensitized film comprising a base, a film support mounted on said base for movement parallel thereto and comprising a flat upper surface adapted to have a sheet of sensitized film detachably secured thereto, a cover on said base enclosing said support and providing a space therebetween to permit the movement of the support relative to the base, said cover being formed with an opening, negative holding means mounted in said opening for movement toward said support to bring a negative on the holding means into contact with the film on the support and for movement away from said support to separate the negative from the film means on said cover for restraining said negative holder against transverse movement, and means for accurately locating said support in predetermined positions along said base whereby to bring predetermined areas of the film on said support into accurate registration with the negative on said holding means.

2,637,256
REVERSIBLE COLTER FOR TWO-WAY PLOWS
Jesse G. Lindeman, Yakima, Wash., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 7, 1950, Serial No. 189,007
11 Claims. (Cl. 97—26)

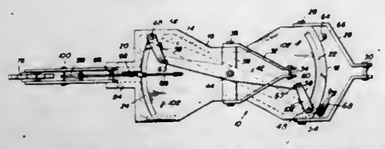
1. In a plow having a plow bottom and a frame on which said plow bottom is mounted, the improvement comprising a colter including a colter disk and a generally vertically extending shank to the lower end of which said disk is rotatably connected, a colter frame in which the upper end of said colter shank is journaled for rocking movement about a generally vertical axis, means connecting said colter frame with said plow frame for movement relative to the latter about a generally horizontal axis, spring means acting against said colter shank for swinging the latter about said vertical axis so as

to tend to cause the colter to have a lead toward the associated plow bottom, and adjustable



means carried by said plow frame for limiting the inward swinging of said colter frame and shank about said horizontal axis.

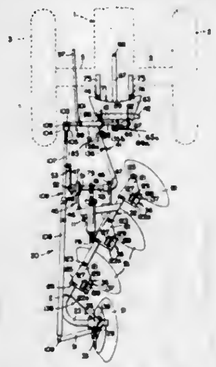
2,637,257
REVERSIBLE PLOW
Charley W. Betz, Collinsville, Ala.
Application April 12, 1948, Serial No. 20,409
3 Claims. (Cl. 97—31)



1. A reversible plow comprising an elongated frame, clevis means for attaching said frame to a tractor, a bolt carried vertically at the center of said frame, a plow beam pivoted for horizontal movement on said bolt, a lever spaced from said plow beam and pivoted at its center for horizontal movement on said bolt, said frame being provided with arcuate slots adjacent its ends, plow feet carrying plow discs at their bottom ends extending through said slots provided in said frame and rotatably secured to said plow beam, means pivotally securing the upper ends of said feet to the opposite ends of said lever, and latch means for releasably retaining said plow beam in a fixed position against pivotal movement on said frame.

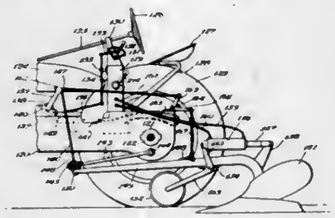
2,637,258
DISK PLOW AND STEERING MECHANISM THEREFOR
Walter H. Silver and Robert E. Cox, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 7, 1947, Serial No. 753,174
16 Claims. (Cl. 97—46.27)

5. A semi-integral implement adapted to be attached to a tractor having front steering wheel means, said implement comprising frame means, means connecting the forward end of said frame means with the rear portion of the tractor for generally vertical movement relative thereto, a rear steerable wheel supporting the rear end of said frame means, a steering connection between said rear wheel and said tractor front wheel means, said steering connection including means movable into one position for transmitting motion from said tractor front wheel means to said rear steerable means and movable into another position so that no steering motion is transmitted from said front wheel means to said rear steerable wheel, and means connected with the front portion of said implement frame for



shifting said movable means into said one position when said implement frame is raised.

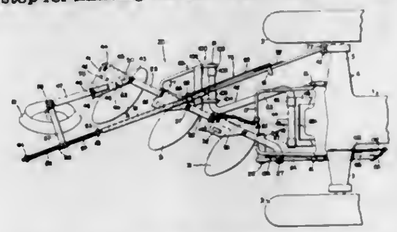
2,637,259
TRACTOR POWER LIFT WITH ROCK-SHAFT AND SYNCHRONIZED REMOTE CYLINDER
Russel D. Acton, Chicago, Ill.
Application April 23, 1948, Serial No. 22,826
31 Claims. (Cl. 97—46.27)



4. A hydraulic power attachment for tractors comprising a pump adapted to be driven from the power plant of the tractor, a rock-shaft adapted to be on the tractor, a two-way acting cylinder and piston device connected to said rock-shaft, valve means for supplying fluid under pressure in metered amounts from said pump to said cylinder at one side of said piston, a flexible conduit connected to said cylinder at the other side of said piston, an implement flexibly connected to the tractor and having an adjustable element thereon and a second remotely located cylinder and piston device adapted to be mounted on said implement and connected to the adjustable element thereof, said conduit being connected to said second cylinder.

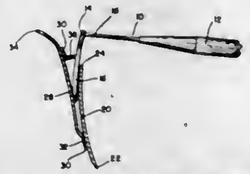
2,637,260
TRACTOR MOUNTED PLOW
Walter H. Silver and Robert E. Cox, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 18, 1946, Serial No. 642,083
8 Claims. (Cl. 97—47.1)

7. A tractor mounted plow comprising a generally longitudinally extending beam section, a draft connection between the generally intermediate portion of said beam section and the tractor, an auxiliary beam member pivotally connected at its rear end with the forward portion of said beam section rearwardly of the front end thereof and extending at its forward end alongside a portion of the tractor, abutment means carried by the front end of said beam section and overhanging the rear portion of said forwardly extending auxiliary beam member and serving as a stop for limiting the downward movement of the



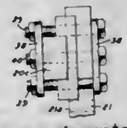
forward portion of said beam section relative to said forwardly extending auxiliary beam member, lifting means connected with said beam section rearwardly of the rear end of said auxiliary beam member, and means adapted to be mounted on the tractor and connected with the forward end of said forwardly extending auxiliary beam member for raising and lowering the latter so as to control the depth of operation of the plow.

2,637,261
ATTACHMENT FOR GARDEN RAKES
Herbert E. Wale, Retsil, Wash.
Application February 26, 1951, Serial No. 212,783
2 Claims. (Cl. 97—66)



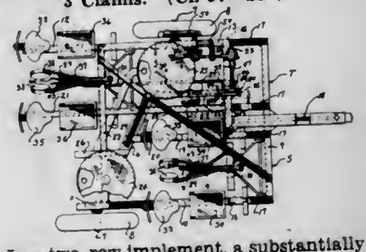
1. An attachment for garden rakes, comprising: an elongated rectangular hoe-like blade curved transversely forming a transversely convex face, to conform to the inner tooth curvature of such garden rake, the lower side edge of said blade being sharpened; an elongated rectangular resilient scraper having its longitudinal axis positioned parallel to the longitudinal axis of said blade and having its lower side edge portion secured to said transversely convex face of said blade above and adjacent to said sharpened edge, the central portion of said scraper being transversely curved similarly to said blade forming a concave face facing said convex face of said blade, said concave face being spaced from said convex face and said central portion being connected to said lower side edge portion by an oblique portion, thereby forming a sheath for the teeth of such rake; said scraper having an L-shaped longitudinal abutment member on the face thereof having said concave face, said abutment member being spaced above the upper edge of said blade, whereby the tooth bar of such rake may be latched in place by said abutment member; and the upper side edge portion of said scraper extending upward beyond said abutment and curving away therefrom in an ogee extension, to form pushing scraping means when said attachment is inverted.

2,637,262
CLAMPING DEVICE FOR ADJUSTABLY SECURING TOOL STANDARDS TO PLOW BEAMS
Rudolph J. Altgelt, South Bend, Ind., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application May 20, 1950, Serial No. 163,188
1 Claim. (Cl. 97—198.1)



In combination, an elongated implement beam having a plurality of spaced apertures therealong, an upright tool standard also having a plurality of spaced apertures along the length thereof for selective registry with the apertures of said beam to accommodate relative beam-standard longitudinal and vertical adjustment, a clamping plate having spaced surfaces on opposing sides thereof slidably engaging said beam and said tool standard respectively, said clamping plate surfaces being defined by opposing recesses having a common open center through which the beam and tool standard are in surface contact and which accommodates communication of registering beam and standard apertures, said clamping plate also having bolt apertures lying outside of said open center and diagonally aligned with the registering apertures of said beam and said tool standard when the same are assembled, clamping straps contacting said beam and said tool standard respectively and extending diagonally thereacross to oppose attempted standard movement during implement working, each of said straps having a pair of end apertures communicating with said plate apertures and a central aperture communicating with the registered apertures of said beam and said standard, a central securing bolt extending through the central apertures of said straps and through registering apertures of said beam and said standard, and additional securing bolts extending through said end apertures to secure said beam, said standard and said clamping plate into an integrated supporting structure with said tool standard being longitudinally and vertically adjustable relative to said beam upon merely removing the single central bolt and sliding the standard and the beam relative to the clamping plate.

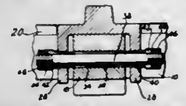
2,637,263
TWO-ROW IMPLEMENT
Albert A. Schmitz, Racine, Wis.
Application November 7, 1947, Serial No. 784,599
3 Claims. (Cl. 97—233)



1. In a two-row implement, a substantially rectangular frame having a pair of side members

and parallel front and rear members, an axle beam connected to said side members and extending diagonally from the rear portion of one of said side members to a portion of the other side member intermediate said front and rear members, a pair of ground wheels carried on the ends of said axle beam in parallel relation to each other and to said side members, a pair of implements including seats for the operators of said implements carried by said frame on opposite sides of the longitudinal center line of said frame and closely adjacent said line, one of said implements being mounted within said frame ahead of the ground wheel adjacent the rear portion of said one side member, and the other of said implements being mounted on said frame behind said other ground wheel and extending rearwardly of said rear member, whereby the implements may work in closely spaced rows but the seats for the operators of the implements are spaced longitudinally so that the operators of one implement do not interfere with the operators of the other implement.

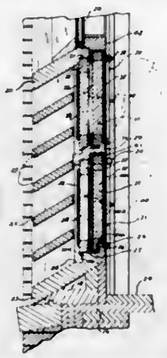
2,637,264
CLOSURE FOR EXHAUST PIPE FOR GAS ENGINES
Cline Harry Harmon, Waterloo, Iowa, assignor to Waterloo Foundry Company, Waterloo, Iowa, a copartnership
Application January 14, 1950, Serial No. 138,650
7 Claims. (Cl. 98—59)



1. In combination, a supporting member having a mounting lug, a closure flap pivotally mounted on said supporting member, said closure member having an extension with spaced wall portions on opposite sides of said lug, said lug and wall portions having aligned apertures therethrough, the apertures in said wall portions being threaded, a pin in the aperture in said lug and extending through the apertures in said wall portions, and bushings surrounding the ends of said pin and threaded in the apertures in said wall portions with their inner ends adjustably disposed in close relation to the adjacent surfaces of said lug for spacing said lug with respect to said wall portions.

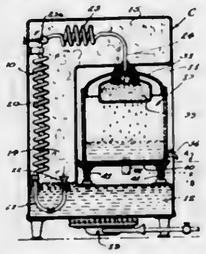
2,637,265
CONSTRUCTION UNIT
Lorenzo Stanley Emmert, Elkhart, Ind.
Application March 12, 1948, Serial No. 14,583
4 Claims. (Cl. 98—88)

1. A constructional unit having a solar heating area and an air-flow area adapted to be secured within an opening in a building wall including a pair of side jambs, a head jamb connecting the upper ends of the side jambs, a sill connecting the lower ends of the side jambs, a second sill spaced above the lower sill and connected to the side jambs, a transparent panel closing the area defined by the head jamb, side jambs and second sill to constitute the solar heating area, a plurality of louvers extending transversely of the area defined by the lower sill, the second sill and the side jambs with the ends of the louvers secured to the side jambs, the said lower sill being provided with an upper face inclined downwardly in the direction of the exterior of the building wall and spaced from the lowermost louver to constitute a drain leading to the exterior of the building wall, the upper end of said lower sill terminating in at least two substantially horizontal ledges falling in different planes with one ledge being spaced below the other ledge, a substantially vertical wall connecting the ledges with the lowermost ledge being adjacent the downwardly inclined face of the sill, and a baffle pivotally connected to the uppermost ledge and being of an area sufficient to close the opening defined by said sills and side jambs, the said substantially vertical wall and baffle preventing rain from entering the inside of the building wall whereby the rain may flow down the uppermost ledge and along the downwardly inclined face of the lower sill to the exterior of the building wall.



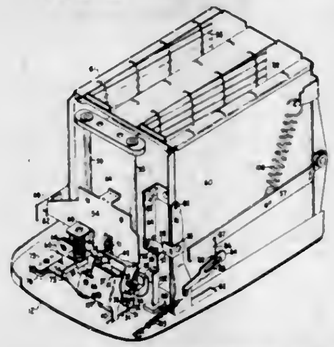
ERRATUM
For Class 99—238.1 see:
Patent No. 2,637,656

2,637,266
STEAM COFFEE MAKER
Calogero Grado, San Diego, Calif.
Application May 7, 1949, Serial No. 91,947
2 Claims. (Cl. 99—293)



1. A coffee maker comprising a rectangular casing providing a combined water and steam compartment and having an urn recess in the front wall thereof, a coffee urn removably supported in said recess, said water and steam compartment enclosing the side, back, top and bottom walls of said urn recess, and a steam coil disposed in said compartment above the normal water level and having an inlet U-shaped connection immersed in said water and provided with an inlet adjacent to but above the water level, said steam coil having a portion thereof disposed in said compartment to the rear of said urn recess and another portion disposed in the compartment above the top wall of said urn recess and terminating in an outlet elbow extending through the top wall of said urn recess, said coffee urn having a compressible and yielding inlet fixture adapted to be detachably connected with the outlet connection of the steam coil, said side, back, top and bottom walls of said coffee urn disposed to lie closely adjacent to the walls of said urn recess and subjected to heat radiating from the walls of said recess to maintain the coffee in said urn at a usable hot temperature.

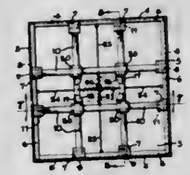
2,637,267
ELECTRIC TOASTER
Roland H. Gardner, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 6, 1949, Serial No. 69,501
8 Claims. (Cl. 99—329)



1. A toaster comprising, a toasting oven, main heaters within said oven, a movable bread carrier within said oven, means for moving said carrier from a receiving position to a toasting position adjacent said heaters, a thermal timer for timing the duration of toasting intervals, an auxiliary heater for said timer, means activated as an incident to movement of said carrier to toasting position for moving said auxiliary heater toward said timer and for energizing said heaters, a movable stop positioned to limit the movement of said heater toward said timer, a compensating bimetal having a free end movable in response to changes in oven temperature, said stop being positioned to be moved by movement of the free end of said compensating bimetal, coacting stop means carried by said auxiliary heater moving means and coacting with said stop for preventing movement of said stop when said carrier is in its toasting position, said stop being mounted on the free end of said compensating bimetal and having a plurality of stepped serrations, at least one of which is movable into the path of said coacting stop means between toasting intervals and means actuated by movement of said thermal timer operable to deenergize said main heaters.

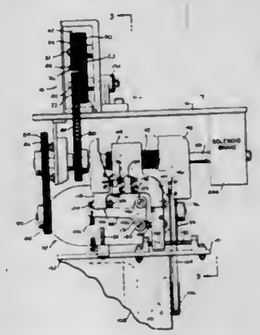
2,637,268
CLAMPING DEVICE
Harry D. Culver, Bellevue, Ky., assignor of one-third to John C. McCarthy and one-third to George A. Schwenzer, Cincinnati, Ohio
Application August 21, 1948, Serial No. 45,478
18 Claims. (Cl. 100—232)

1. In a clamping device for bundling laminated packages comprising; a frame, multiple jaw means with base plate means for holding and positioning laminated materials of said packages, slidable means for supporting and moving said holding means positioned on different plane levels



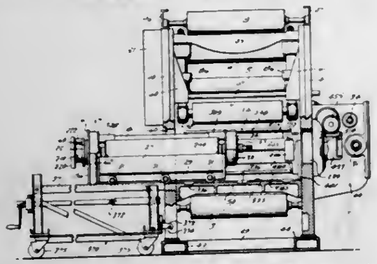
and in pairs supported endwise on said frame, perpendicularly arranged slidable means mounted to move transverse each to the other for supporting and moving said first slidable means to simultaneously move said holding means.

2,637,269
STENCIL PRINTING APPARATUS
John B. Thomas, Watertown, Conn., assignor to Roto-Matic Screen Printer, Ltd., New York, N. Y., a corporation of New York
Application April 19, 1951, Serial No. 221,794
21 Claims. (Cl. 101—123)



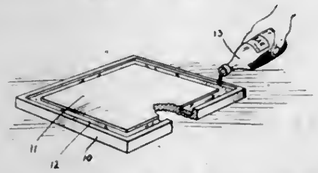
1. In a silk screen printing machine having a printing table, a scraper, a track guiding said scraper for movement back and forth across said table, an element, means to mount said element for reciprocation, a positive kinematic train interconnecting said scraper and said element, said train including a motion reducing mechanism whereby said element duplicates in miniature the movement of the scraper, a reversible electric motor, a hydraulic speed-varying transmission unit driven by the electric motor, a control member regulating the output speed of the unit, means to drive the scraper from the unit, a control circuit for said electric motor, a starting switch, and switches for governing the operation of said motor, said last named switches and said control member being so disposed for actuation by said element that upon actuation of said starting switch said scraper will start at slow speed from the rear of the machine, rapidly accelerate, subsequently rapidly decelerate as it approaches the front of the machine, reverse at the front of the machine, slowly start to the rear of the machine, rapidly accelerate, subsequently rapidly decelerate as it approaches the rear of the machine, and finally stop as it reaches the rear of the machine.

2,637,270
INTAGLIO PRINTING PRESS
Arthur P. Bamford, East Orange, N. J., assignor to The Sperry Corporation, Long Island City, N. Y., a corporation of Delaware
Application June 23, 1949, Serial No. 100,890
12 Claims. (Cl. 101—157)



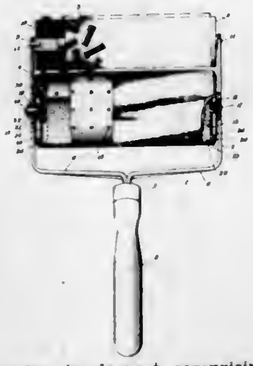
1. A printing press comprising a pair of end frames, a platform extending between said frames, tracks on said platform, a printing cylinder carriage comprising bottom, side and end walls, bearing blocks on said carriage beyond said end walls, a shaft journalled in said bearing blocks and carrying a printing cylinder, bearing block supports carried by said end frames to support said bearing blocks when said carriage is in printing position and wheels on said carriage riding on said tracks for the withdrawal of said carriage from said press, said track having recesses beneath the wheels when in printing position whereby the cylinder and carriage are then supported solely by said bearing block supports, at least three wheels being spaced along said carriage to ride on each track, said wheels and recesses being unequally spaced whereby said carriage is supported by at least two of said wheels at all times when a third wheel is over one of said recesses during the travel of said carriage.

2,637,271
METHOD OF TRANSFERRING DESIGNS
Louis Jackson, New York, N. Y.
Application June 28, 1949, Serial No. 101,803
1 Claim. (Cl. 101—211)



A method of providing a multi-color design upon a sheet of non-absorbent material which consists of forming a natural and accidental blotting design upon a sheet of absorbent blotting paper, by laying the sheet of absorbent material upon a slab having a continuous groove about the periphery thereof and extending each edge portion of the absorbent sheet into said groove and sequentially pouring different coloring solutions into said groove in order that the portions of the absorbent sheet extended thereinto may absorb the coloring solutions in random relation to produce an asymmetric individual design in a multiplicity of colors, thereafter placing the absorbent sheet while still wet onto the sheet of non-absorbent material on which the transfer is to be made, assembling the sheets between two plastic plates and applying with a press pressure directly forcing the sheets and plates together without frictional action therebetween, and thereafter removing the sheet of non-absorbent material and permitting the same to dry naturally.

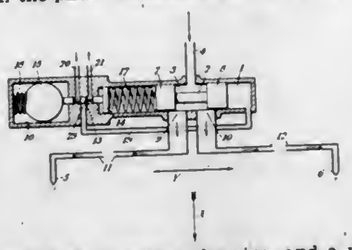
2,637,272
IMPLEMENT FOR DECORATING WALLS AND OTHER SURFACES
Ralph H. Hesson, Brooklyn, N. Y.
Application April 26, 1951, Serial No. 223,117
1 Claim. (Cl. 101—331)



A decorating implement comprising a yoke-shaped frame having substantially parallel arms at one end and a handle at the other, a die roll in transverse position at the outer ends of said arms, said roll bearing designs to be transferred to a surface, and a hollow feed roll carried by the arms of the yoke in contact with the die roll, said rolls both having trunnions embedded in the extremities of the cores thereof, said feed roll having a perforated cylindrical body with closures at the ends and having a sleeve enveloping it, said sleeve having hemmed edges with an elongated member encased by said edges and means on the closures within the periphery thereof encircled by said members to secure said sleeve on said body, said closures having flanges inserted into the ends of the body with L-shaped slots in the flanges, each slot having an open end at the edge of the flanges, the body having in-punched projections to enter said slots and hold the closures on the body, one of said closures having a central boss with a hole therein to receive a plug to serve as one of the trunnions, said plug having a threaded longitudinal bore and the bottom of the hole having threads in line with the bore, a screw engaging said bore and said threads in the boss to unite the plug to the boss and a binding screw carried in the side of the boss engaging said plug.

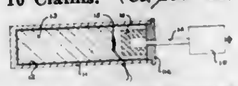
2,637,273
FUEL SUPPLY SYSTEM
Philip Harold Stokes, Tettenhall, Archibald Arthur Avenell, Wolverhampton, and Peter Mitchell, Shifnal, Salop, England, assignors to H. M. Hobson Limited, London, England, a company of Great Britain
Application December 29, 1950, Serial No. 203,291
In Great Britain January 30, 1950
4 Claims. (Cl. 102—50)

4. In a guided missile, the combination of a pair of burner nozzles located on opposite sides of the fore and aft centre line of the missile, a cylinder, an inlet conduit for admitting fuel to the cylinder, outlet conduits connecting said cylinder to said nozzles, a piston in said cylinder, said cylinder and piston being relatively movable to control the flow of fuel through the outlet conduits to the nozzles, a control valve, a conduit controlled by the control valve for establishing a variable fluid pressure in said cylinder and thereby controlling the position of said piston in relation to said cylinder, means biasing said control valve to a normal controlling position in which the piston distributes the fuel equally be-



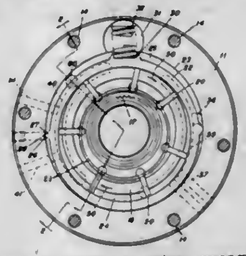
tween the two nozzles, a housing, and a weight coacting with the control valve and mounted so that it may move in said housing in a direction normal to the fore and aft centre line of the missile, the weight being effective, when displaced in said housing in response to an acceleration force acting on the missile, to move the control valve from controlling position and thereby to effect relative movement of said piston and cylinder to restore the equal distribution of fuel between the nozzles.

2,637,274
POWER-GAS GENERATING DEVICE
James Taylor and Alexander Cantlay Hutchison, Saltcoats, Scotland, and Isaac Fagelston, London, England; said Taylor and said Hutchison assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application November 4, 1947, Serial No. 784,070
In Great Britain November 29, 1946
10 Claims. (Cl. 102—98)



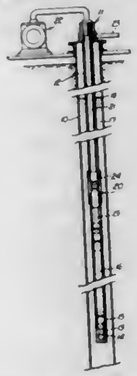
1. A power gas generating device adapted to provide a stream of power gases at predetermined pressure for a predetermined time on the order of minutes comprising, in combination, a compressed continuous column of a sensitized thermally decomposable powder mixture confined within an externally rigid protective structure which includes an internal lining of heat insulating material substantially inert toward said powder mixture, with which lining the longitudinal surface of said column is in direct contact, said powder mixture including a thermally decomposable compound selected from the group consisting of the nitrate and nitro derivatives of a nitrogen base compound, and a powder sensitizer of the self-sustained thermal decomposition of said compound; said powder mixture having been compressed in situ in said protective structure at a unit pressure on the order of at least ten times that at which the gas is to be generated to provide a compressed column of compacted powder mixture whose longitudinal surface is maintained in intimate cohering contact with the internal heat insulating surface of said protective structure, whereby decomposition of the sensitized powder mixture is prevented from proceeding along said longitudinal surface at a faster rate than that at which decomposition of an exposed transverse surface proceeds through said column.

2,637,275
ROTARY PUMP
Forest R. McFarland, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application September 18, 1947, Serial No. 774,769
7 Claims. (Cl. 103—42)



1. In a rotary pump, a rotor, means cooperating with the rotor to form a pump chamber and casing, said casing having inlet and outlet passages therein, said means including a ring surrounding the rotor and movable relative thereto to vary the output volume of the pump, means to automatically control the volume varying position of said ring, and a secondary control means for said ring including a by-pass passage having a port, said by-pass connecting said chamber with said inlet passage, and said port cooperating with and being covered and uncovered by said ring depending upon the movement thereof, said port being progressively uncovered as the outlet volume diminishes and the pump pressure increases.

2,637,276
METHOD OF AND APPARATUS FOR HYDRAULIC PUMPING
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application May 10, 1947, Serial No. 747,233
22 Claims. (Cl. 103—46)



1. In a fluid operated pumping system for wells, the combination of: a fluid operated pump

adapted to be installed in a well; power tubing communicating with said pump and adapted to convey operating fluid under high pressure downwardly through said well to actuate said pump; production tubing communicating with said pump and adapted to convey the discharge from said pump upwardly through the well; a fluid flow governor disposed in the line of said power tubing and adapted to control the flow of said operating fluid therethrough; and pressure responsive means for controlling the operation of said governor in response to variations in the level of liquid in the well, including a fluid passage communicating between the interior of said governor and the exterior of said production tubing at a point adjacent to said governor.

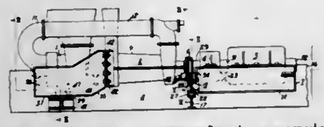
2,637,277

GAS TURBINE LOCOMOTIVE

Hans A. Altorfer, Walnut Creek, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application March 3, 1950, Serial No. 147,548

3 Claims. (Cl. 105—36)



1. A gas turbine power plant comprising in combination a foundation capable of twisting and flexing movement, a first cradle structure, first mounting means fixedly securing one end of said cradle structure to said foundation, second means independent of said first mounting means and spaced therefrom pivotally mounting the other end of said first cradle structure on said foundation, a generator having a rotatable shaft, said generator being rigidly mounted on said first cradle structure with the axis of said shaft extending longitudinally of said foundation, a compressor with a casing having one end slidably supported on said second mounting means for rotation relative to said foundation about said longitudinally extending axis, said compressor having a rotatable shaft coupled to said generator shaft in torque transmitting relation, said compressor shaft having an axis of rotation substantially coincident with said longitudinally extending axis, a second cradle structure pivotally mounted on said foundation for rotation about an axis extending through said cradle structure normal to said foundation, one end of said second cradle structure being rigidly secured to the other end of said compressor casing, a gas turbine having a rotatable shaft, said turbine being rigidly mounted on said second cradle structure so as to align said turbine shaft with said compressor shaft, and means coupling said turbine shaft and said compressor shaft in torque transmitting relation.

2,637,278

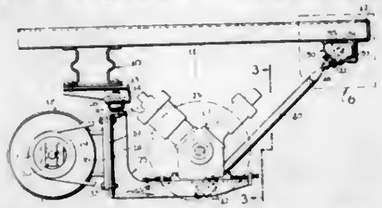
RESILIENT MOUNTING FOR A PLURALITY OF MACHINES

Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 5, 1949, Serial No. 119,636

7 Claims. (Cl. 105—133)

1. A machine mounting, as for mounting machines beneath a rail car, in combination, a center sill, a base resiliently supported from said center sill at a point between the ends of the base, a compressor machine mounted on said base at one side of its point of support, a generator machine mounted on said base at the other side of the point of support, the weight of the compressor multiplied by its effective lever arm and the weight of the generator multiplied by its effective lever arm producing moments about said point of support which are approximately equal, a drive connection between said generator and compressor, a torque drive connection between one of said machines and a device mounted off said base beneath the car, a side sill, and a resilient guy rod between said base and said side sill.



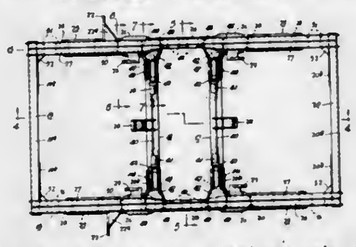
2,637,279

WELDED RAILWAY CAR TRUCK FRAME

Edward J. Charlton, Coatesville, and Lewis W. Edwards, Lancaster, Pa., assignors to Lukens Steel Company, Coatesville, Pa., a corporation of Pennsylvania

Application July 20, 1948, Serial No. 39,658

23 Claims. (Cl. 105—208)



1. A railway truck frame having a pair of hollow side rails, a pair of hollow transoms extending laterally across the frame and between the rails near the central section thereof, said transoms comprising oppositely facing channel members, a pair of transition members forming the termini of each transom, and a reinforcing plate welded internally of each transition member, said plates being oblique with respect to the vertical center line of the transition members.

2,637,280

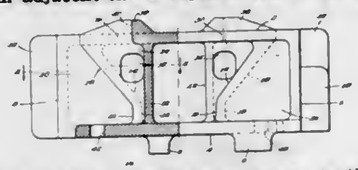
BOLSTER

Roland T. Leisk, East Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application September 8, 1948, Serial No. 48,192

3 Claims. (Cl. 105—230)

1. A cast steel railway car truck bolster comprising a top wall, a bottom wall, spaced side walls connecting said top and bottom walls, friction shoe pockets formed on opposite sides of the bolster and each being defined by spaced inboard and outboard webs sloping downwardly and inwardly from the top wall and including vertical segments connected to the bottom wall, a pair of spaced vertical walls connecting the remote edges of said webs to said top wall, bottom wall and adjacent side wall, another pair of spaced vertical walls connected to said top and bottom walls and also connected to and extending inwardly from adjacent inner edges of said webs, a rear wall extending vertically and joined to the top wall, bottom wall and said other pair of spaced vertical walls, said rear wall being spaced inwardly from the spaced vertical segments of said webs to define with said other pair of spaced vertical walls a U-shaped section as viewed in horizontal cross section.



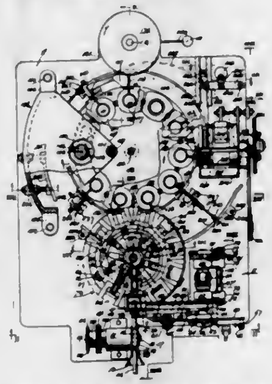
2,637,281

CANDY PREFORMING MACHINE

Leo Latini and Edmond Latini, Chicago, Ill.; said Edmond Latini assignor to said Leo Latini

Application February 5, 1947, Serial No. 726,574

24 Claims. (Cl. 107—8)



1. In a device of the character described, the combination with a frame, of a table mounted for continuous rotation on said frame, a plurality of pairs of normally separated complemental die members uniformly spaced on said table, means for feeding material to said complemental die members when in separated relation, means for displacing one complement of said die members toward the other to compress the material therein, means for returning said compressing die member complement to its initial position, and rotary clutching means for removing the preformed material from said die member after the compressing die is elevated.

2,637,282

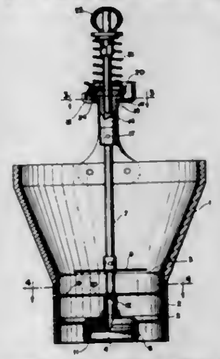
DOUGH FORMER

Thomas E. Belshaw and Walter R. Belshaw, Seattle, Wash.

Application August 6, 1948, Serial No. 42,788

1 Claim. (Cl. 107—14)

In a dough former, a hopper providing a valve chamber having an inlet and outlet, a rod extending through the chamber, a piston mounted on the outlet end of the rod for opening and closing the outlet, a stop on the rod in the chamber and spaced from the piston, a check valve in the chamber including as complementing parts a valve and valve seat, one secured to the rod further from the piston than the stop and the other floating between the stop and the said secured part, and means for imparting reciprocating movement of the rod relative to the chamber walls whereby the check valve automatically closes during each outlet opening stroke of the piston to isolate a charge of dough and forcibly dispense the same in a ring-like form from the chamber and between the outlet and the piston and whereby the valve automatically opens during each outlet closing stroke of the piston to replenish the foregoing dispensed charge of dough from the hopper.



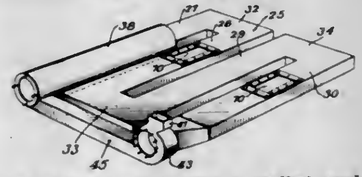
2,637,283

UNIT HEATING SYSTEM FOR BAKING OVENS

Chris Klein, Warrenville, Richard C. Skarin, Western Springs, and William G. Tinker, Itasca, Ill., assignors to The Petersen Oven Company, Franklin Park, Ill., a corporation of Illinois

Application March 18, 1949, Serial No. 82,224

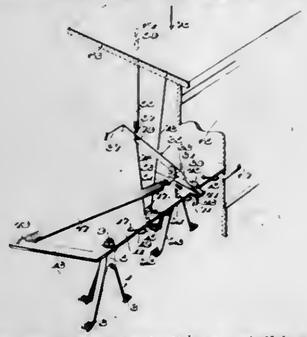
1 Claim. (Cl. 107—63)



In a baking oven having a walled enclosure defining a baking chamber, a unitary, prefabricated heat exchanger, adapted for mounting on the lower wall of the chamber, comprising a plurality of longitudinally extending duct sections, including two outer sections and one or more intermediate sections arranged side-by-side in substantially parallel relation and interconnected at opposite ends in series relation to form a continuous conduit for the passage of heated air therethrough, the free end portion of one of the outer duct sections being formed as a chamber for the reception of a heater unit, and the free end portion of the other outer duct section being formed as a housing for a suction-blower, a separate duct interconnecting the heater chamber and the blower housing for recirculation of a portion of heated air passing

through the heat exchanger, said separate duct extending transversely of and disposed adjacent to and disconnected from the ends of the intermediate duct sections, and means for externally interconnecting said separate duct and the adjacent ends of the intermediate duct sections for stability in shipment and handling.

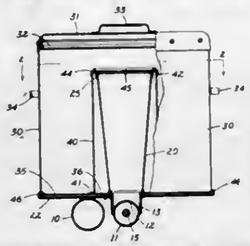
2,637,284
BURGLAR TRAP
Robert H. Burnell, Washington, D. C.
Application September 4, 1951, Serial No. 244,940
1 Claim. (Cl. 109—3)



A burglar trap including a striking bar for striking and felling a person attempting a robbery, said striking bar having a crank arm extending from one end thereof, a support for the striking bar, said striking bar pivotally mounted on said support adjacent the end of the striking bar having the crank arm extending therefrom and the striking bar being horizontally swingable about said support, latch means for releasably maintaining said striking bar against swinging movement, a support operatively mounting said latching means and positioned in spaced relation to said first named support and in position adjacent to but inwardly of the other end of said striking bar, a pair of vertically spaced latching members extending forwardly from said support and having aligned apertures therein adjacent the forward ends thereof, the striking bar in inoperative position adapted to be received between said latching members, a bolt extending through the apertures in the latching members to maintain the striking bar therebetween, and a manually operable control member rockably mounted on said latching means support and connected with said bolt and operable to lift the same out of the apertures in the latching members for releasing the striking bar, and spring means releasably maintaining the control member in depressed non-bolt lifting position, and means constantly urging said striking bar into its striking stroke, said means including a spring fixed at one end to said crank arm and stretched and under tension and attached at its other end to said latching means support.

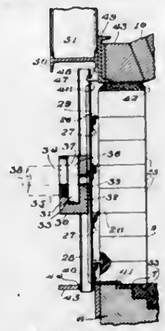
2,637,285
ASH CONTAINER
Delmond L. Getz, Springfield, Ohio, assignor to The Steel Products Engineering Company, Springfield, Ohio, a corporation of Ohio
Application March 12, 1948, Serial No. 14,429
7 Claims. (Cl. 110—165)

1. Ash receiving apparatus of the character described for use with a furnace having a retort defining a combustion zone, comprising an ash conveyor leading from said retort and having a discharge opening in the upper part thereof at a position outside of and spaced laterally from said furnace, a discharge tube secured to said conveyor at said discharge opening and projecting upwardly therefrom to guide ashes upwardly from said opening, a removable container separate from said discharge tube and having an ash receiving opening in the bottom thereof, a tube open at both ends thereof secured to the bottom of said container in concentric relation with said ash receiving opening and extending upwardly



therefrom within said container to a position spaced above said container bottom, said container tube being of sufficient size to receive said discharge tube in telescoping relation therewith and being of substantially smaller diameter than said container to leave an annular space surrounding said container tube within said container, and means for removably supporting said container on said conveyor with said tubes in substantially fully telescoped relation to effect discharge of ashes from said discharge tube into said annular space within said container over the upper end of said container tube.

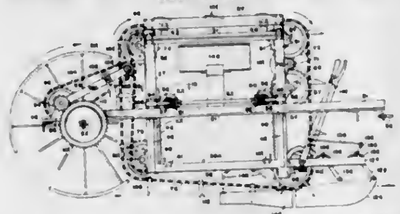
2,637,286
SELF-CONTAINED REPLACEABLE PANELS FOR OPEN HEARTH FURNACES
Russell Pearce Heuer, Villanova, Pa., assignor to General Refractories Company, a corporation of Pennsylvania
Application November 12, 1947, Serial No. 785,445
8 Claims. (Cl. 110—172)



3. In an open hearth furnace, a self-contained door-separating panel comprising the combination of a metallic frame, horizontally extending brackets carried by said frame, hangers detachably mounted upon said brackets, refractory bricks carried by said hangers and covering the inner face of said frame, peel-engageable means secured to the outer face of said frame to permit lifting and setting said panel substantially horizontally in operative position in alignment with, as a unitary part of and within the plane of the outer surface of the front wall of the furnace while in heat, and means carried by the upper and lower edges of said panel and engageable with the periphery of said opening, to normally secure said panel in fixed position therein.

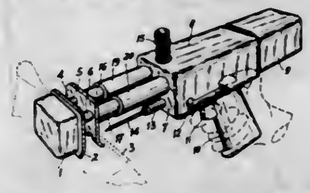
5. An open hearth furnace, comprising the combination of a wall having a horizontally elongated opening, a pair of spaced charging doors partially closing said opening, with a door-separating panel positioned in said opening between the doors, said panel comprising the combination of a rigid framework, protective refractory material carried by the inner face of said framework, said refractory material being disposed wholly inside of the plane of the interior surfaces of said doors, and a peel-engageable socket member carried by the opposite face of said framework, to permit said panel to be moved into and out of operative position while in parallelism with the plane of said doors, by and upon being operatively engaged by the peel of a loading mechanism.

2,637,287
PLANTING MACHINE
Ober G. Strauss, Washington, D. C.
Application June 24, 1947, Serial No. 756,609
6 Claims. (Cl. 111—3)
(Granted under Title 35, U. S. Code (1952), sec. 266)



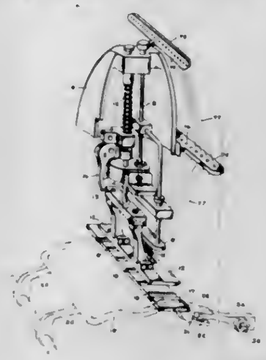
5. A planting machine comprising a flexible element in the form of a loop disposed in a longitudinal vertical plane and comprising an upper portion, a forward portion, a lower portion and a rear portion, means for translating said element such that as the planting machine is conveyed over the ground the upper portion travels forwardly, the forward portion travels downwardly, the lower portion travels rearwardly, the rear portion travels upwardly and the velocity of the lower portion is zero relative to the ground, a tray for holding material to be planted pivotally mounted on said element to travel therewith, said tray being so weighted that its center of gravity is below its pivotal mounting to maintain said tray in a substantially horizontal plant material holding position while traveling forwardly along the upper portion and downwardly along the forward portion, said tray when in said holding position being open at the top and forward end, and means associated with said tray brought into cooperative relationship with said element as the tray turns from traveling downwardly along the forward portion to traveling rearwardly along the lower portion to move the tray on its pivotal mounting and hold it with its open end downwardly during travel along the lower portion, said means coming out of said cooperative relationship with said element after travel of the tray along the lower portion for releasing the tray from the position with its open end downwardly and permitting the tray to move on its pivotal mounting under the influence of gravity to said holding position.

2,637,288
HAND BAG-SEWING MACHINE
Giuseppe Renzo Cerioni, Milan, Italy, assignor to EL-CU-S. P. AZ. Elettro Cucitrice Industriale Portatile, Milan, Italy
Application March 3, 1950, Serial No. 147,515
In Italy September 23, 1949
10 Claims. (Cl. 112—11)



1. A sewing device, comprising in combination, a first casing having a side surface; sewing means located in said first casing; a second casing having a bottom surface and a side surface, said side surface of said second casing being located opposite to and facing said side surface of said first casing and said second casing being substantially larger than said first casing; elongated connecting means extending between said sides of said casings and interconnecting the same; operating means partly mounted in said second casing, extending along said connecting means and cooperating with said sewing means in said first casing for operating the same; and handle means extending from and connected to a substantially central portion of said bottom surface of said second casing, whereby the sewing device may be easily supported and balanced by an operator holding said handle means and maintaining said connecting means in a substantially horizontal position.

2,637,289
TUFTING MACHINE
Oscar Grant, Jr., and Clovis H. Jackson, Dalton, Ga., assignors to Art-Rich Manufacturing Company, Dalton, Ga., a partnership
Application October 10, 1947, Serial No. 779,148
10 Claims. (Cl. 112—79)



1. In a tufting machine for simultaneously producing a series of aligned tufts in a base material, the combination with a plurality of reciprocable needles, a plurality of looper arms and a plurality of cutters cooperating with each other to form tufts, of a block for carrying said looper

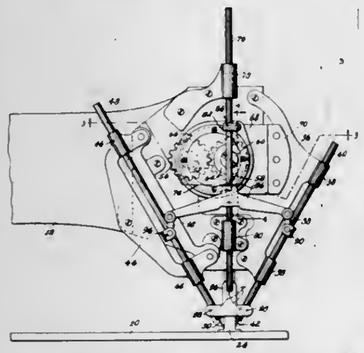
arms, a block for carrying said cutters, a shaft operatively connected to said blocks, and adjustable means, extending transversely the width of said machine and being positioned below said looper arms and cutters, and being adjustable so as to limit the stroke of the looper arms to produce loops of such size as to regulate the thickness of the nap for rocking said shaft, said looper arms and said cutters being provided with holders mounted in staggered relationship of said respective blocks for carrying the looper arms and for carrying the cutters, but extending in a straight line for coaction with a straight line of needles.

2,637,290

MULTIPLE NEEDLE STITCHING MECHANISM

Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corporation, New York, N. Y., a corporation of New York

Application July 2, 1947, Serial No. 758,577
15 Claims. (Cl. 112—98)



1. In multiple needle stitching mechanism, a horizontal support over which the work is intermittently rearwardly fed, a vertically reciprocating hook needle movable through said support, a thread carrying needle rearwardly of the hook needle and movable through said work support, said thread carrying needle being mounted for reciprocation in a linear path in a downwardly converging relation to the hook needle and in a vertical plane oblique to a vertical plane parallel to the line of feed and intersecting same substantially in the axis of the hook needle, and actuating means for reciprocating said needles in timed relation, with said thread carrying needle moving below the work support in a path intersecting said path of reciprocation of the hook needle and in closely cooperating relation with said hook needle to form a thread stitch on one side of the work disposed diagonally of the line of feed thereof.

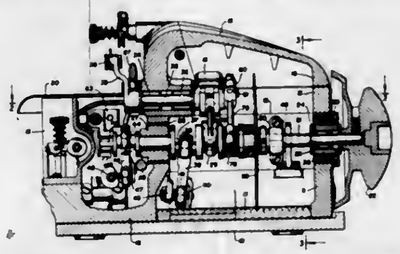
2,637,291

OVEREDGE SEWING MACHINE CONSTRUCTION

Ned L. Wallenberg and Albert M. Schweda, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application January 24, 1949, Serial No. 72,312
10 Claims. (Cl. 112—162)

1. An overedge sewing machine structure comprising a base having a rotary operating shaft, means carried by said base providing a horizontal work supporting surface, work performing means in said base comprising a feed dog, an overedge looper, and an under looper, said overedge looper and said under looper being mounted for movement in parallel closely spaced planes, connections from said shaft for operating all of said work performing means, said base being adapted for selective connection with any one of a plurality of upper frame members of different form, the selected upper frame member being connected with said base and having needle supporting and operating means adapted



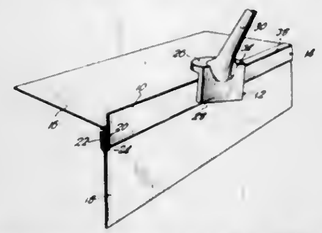
to cooperate with said work performing means to form a seam, the needle support in said connected member being arranged for reciprocation in a plane perpendicular to said horizontal work supporting surface, said connected upper frame members and said base being separable along a plane substantially below said work supporting surface, means for connecting the selected upper frame member to said base and means for inter-connecting said shaft with the needle supporting and operating means of the connected upper frame member for operation thereof in coordination with said work performing means.

2,637,292

FLANGE BENDING TOOLHEAD

Fred F. George, Jr., North Kansas City, Mo.

Application September 5, 1950, Serial No. 183,253
1 Claim. (Cl. 113—54)



As an article of manufacture, a tool head comprising a pair of plates each having a flat innermost face and a flat outermost face, said plates being integrally interconnected, presenting outermost and an innermost, straight parallel lines of merger between the plates, there being an obtuse angle between the innermost faces of the plates; and an elongated stem integrally joined to the outermost faces of the plates on the outermost line of merger therebetween, said stem being substantially at right angles to the outermost face of one plate and substantially flush with the outermost face of the other plate, there being an acute angle between the longitudinal axis of the stem and said outermost line of merger.

2,637,293

SOUND PRODUCING DEVICE

Shirly L. Graham, Ellicott City, and Henderson H. Howard, Simpsonville, Md.

Application August 31, 1950, Serial No. 182,592
4 Claims. (Cl. 116—28)



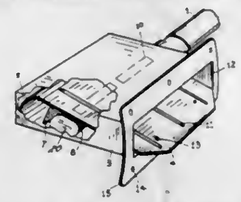
1. In a sound producing device adapted to be connected to the brake pedal of a motor vehicle, a source of supply of fluid under pressure, a cylindrical casing having closed ends, the cylindrical wall of said casing being formed with an inlet on one side and an outlet on the other side offset with respect to said inlet, a conduit connecting said source of supply to said inlet, means at said outlet for creating a hissing sound when fluid escapes therethrough, a follower slidably mounted in said casing and dimensioned and arranged to close one of said inlet or outlet while the other remains open, said follower being formed with a longitudinal air passage extending therethrough and establishing communication between the spaces at the opposite end of said casing as defined by said follower, and actuating means connecting said follower to said brake pedal.

2,637,294

ANGLE OF ATTACK INDICATOR

Walter Gehrig, Flint, Mich.

Application May 1, 1947, Serial No. 745,352
3 Claims. (Cl. 116—112)



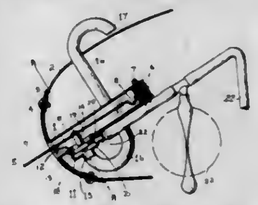
1. An angle of attack indicator for use on an aircraft in flight comprising a conduit means, a vane and valve housing normally secured to the leading end of an aircraft member forming one end of said conduit means, an opening in said housing facing the airstream during flight, the other end of said conduit means terminating in an airflow operated signal means, a control vane oscillatably mounted in said housing projecting through said opening in said housing to within the airstream flowing about said aircraft in flight, a valve in said housing to control the airflow in said conduit means comprising a valve-port in fluid connection with the interior of said housing when open, a valve member operatively coupled with said control vane adapted to open and close said valve-port upon oscillating with said control vane between an open and a closed valve position in accordance with the airstream's angle of attack against said control vane, the airflow in said conduit means induced by said airstream at said opening in the vane and valve housing and controlled by said vane and valve.

2,637,295

ANGLE OF ATTACK CONTROLLED SAFETY DEVICE FOR AIRCRAFT

Walter Gehrig, Flint, Mich.

Application September 15, 1949, Serial No. 115,811
20 Claims. (Cl. 116—117)



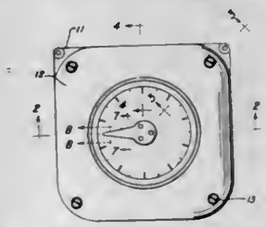
1. An angle of attack indicator for aircraft comprising a control conduit connecting airflow actuated motor means with valve means for controlling the airflow therein, said valve means comprising a valve chamber having two ports, conduit means fluid connecting one of said ports with an aircraft zone subject to positive pressure during flight, conduit means fluid connecting the other port with an aircraft zone subject to negative pressure during flight, a valve seat adjacent each of said ports, a valve adapted to oscillate between said valve seats closing either port upon contact therewith, a control vane oscillatably mounted on an aircraft member having an oscillatable vane portion positioned within the airstream flowing about the aircraft during flight, said control vane operatively coupled with said valve for alternate opening and closing of said ports upon oscillation of said valve between said valve seats in accordance with direction changes of the airstream against said control vane, a control-conduit fluid connecting said valve chamber with said airflow actuated motor means, the latter comprising an expansible and contractible chamber responsive to pressure reversal in the fluid connected control-conduit, a connector disposed on a movable portion of said chamber, movable signalling means positioned within the pilot's line of vision through the windshield comprising a lever operatively connected with said connector to move with the expansion and contraction of said chamber controlled by said vane and valve.

2,637,296

ILLUMINATED INDICATING APPARATUS

Rutger B. Colt, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware

Application June 13, 1950, Serial No. 167,845
7 Claims. (Cl. 116—129)



1. In an indicating instrument having a series of light transmitting indicia arranged on an opaque indicating dial and having a co-operating indicating pointer, a light-diffusing assembly for

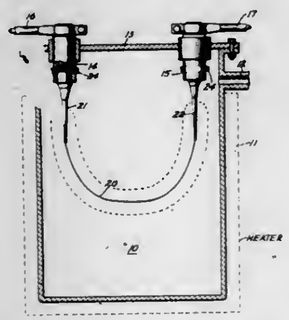
directing light from a source within said instrument through said indicia and across the surface of said dial, comprising: an annular member made of light transmitting material and having a centrally located recess for receiving said dial in nesting relationship, said member having a plurality of symmetrically arranged apertures located in the portion surrounding said recess for receiving light bulbs therein and said member having a series of light reflecting areas on its inner surface corresponding to said series of indicia; and a light-shield having a cut-out central area removably positioned on said member in nesting relationship, said light-shield having its inner periphery overlaying the peripheral edge of said dial and the portion of said member surrounding said dial and its outer periphery turned down to overlay the peripheral edge of said member, said shield co-operating with said member to confine the light from said bulbs within said member and to direct a portion of the light across the face of said dial and over said pointer.

2,637,297

APPARATUS FOR ATTACHING FILAMENTS TO ELECTRODES IN MACHINES FOR COATING WITH METAL VAPORS

Zalman M. Shapiro, Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application November 20, 1951, Serial No. 257,308
10 Claims. (Cl. 118—49)



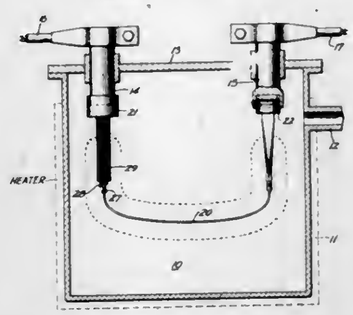
1. In combination, a vessel adapted to contain a thermally decomposable vapor of a metal compound, electrodes having a cavity in the end thereof mounted within said vessel, a starting wire adapted to be maintained at a temperature above the decomposing temperature of said vapor by a current supplied to said electrodes, and demountable electrode tip means for attaching the ends of said wire to said electrodes, said means comprising an enlarged head portion adapted to be mounted in the electrode cavity and having a recessed surface, a tail portion having a diameter not more than twice the diameter of said wire, retaining means adapted to engage the electrode and the recessed surface and an intermediate tapered tip portion connecting said head and tail portions to provide said means with a tapered configuration with the point of wire attachment thereto being at the tail portion of said means, thereby to insure the maintenance of the temperature at the ends of said wire above said decomposing temperature by limiting the flow of heat by conduction from the ends of the hot wire to the adjacent electrodes.

2,637,298

APPARATUS FOR ATTACHING FILAMENTS TO ELECTRODES IN MACHINES FOR COATING WITH METAL VAPORS

Zalman M. Shapiro, Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application November 20, 1951, Serial No. 257,309
7 Claims. (Cl. 118—49)



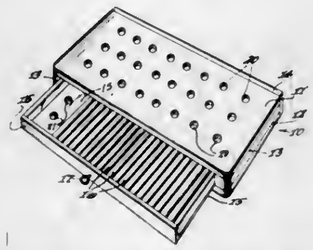
1. In combination, a vessel adapted to contain a decomposable vapor of a metal compound, electrodes mounted within said vessel, a filament adapted to be maintained at a temperature above the decomposing temperature of said vapor by a current supplied to said electrodes, and means for attaching the ends of said filament to said electrodes, said means comprising a detachable adaptor attached to the electrode and a plurality of spaced members fixed at one end to said adaptor, one of said members having an end of said filament attached to the non-fixed end thereof and with the non-fixed ends of the remaining members suspended in space and terminating adjacent the point of attachment of said filament, whereby deposited metal may progressively bridge the spaces between the non-fixed ends of the members.

2,637,299

CONTAINER FOR CRAYONS AND THE LIKE

Sidney Salkey, Bronx, N. Y.

Application May 11, 1950, Serial No. 161,340
5 Claims. (Cl. 120—23)



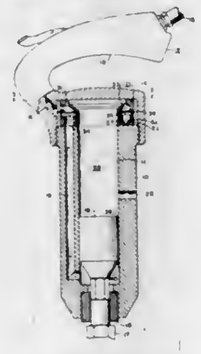
1. A combined container and stand for crayons and the like comprising a flat rectangular box having a top piece, a base, a rear wall, side walls and an open front, a shallow drawer slidable on the base into and out of said open front and having a floor piece and surrounding walls, a plurality of holes in said top piece and in said floor piece, said holes being aligned when the drawer is closed, and a plurality of wells in said base aligned with the holes in the top piece.

2,637,300

AIR HAMMER CONSTRUCTION

Paul R. Van Sittert, Shaker Heights, Ohio, assignor to The Rotor Tool Company, a corporation of Ohio

Application March 10, 1950, Serial No. 148,990
3 Claims. (Cl. 121—19)



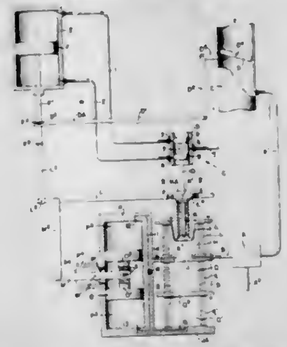
1. An air tool comprising, a tool body having a cylindrical bore, said cylindrical bore having a first and a second end, and an intermediate portion between the ends, said tool body having an opening through the said intermediate portion of the bore providing an exhaust port, an annular valve body having an annular groove therein with a flat wall bottom, an annular valve cap having a flat wall surface, the valve cap and valve body comprising a valve cage, a cap member threadably engaged on said first end of the tool body, said valve body and valve cap clampingly held together and in operative position at the first end of said tool body by said cap member, said valve cage having an internal bore, said cylindrical bore of the tool body and internal bore of the valve cage comprising a tool cylinder, the groove in the valve body defining an annular valve chamber therein having the flat wall surface of the valve cap as a first flat wall of the chamber, and the flat wall bottom of the groove as a second flat wall of the chamber, said valve cap having at least an opening through said first flat wall for a first air entrance into said chamber, said valve cap having at least an opening through said first flat wall for a first air exit from said chamber, said valve body having at least an opening through said flat wall bottom for a second air entrance into said chamber, said valve body having at least an opening through said flat wall bottom for a second air exit from said chamber, an annular resilient valve ring in said annular valve chamber, said valve ring being warped untrue with respect to the flat walls of the chamber and being adapted to be flattened by fluid pressure into flat sealing contact with a selected one of said first and second flat walls of the valve chamber, an air line conduit adapted to conduct air from said second exit to said second end of the cylinder, said first air exit opening into the first end of the tool cylinder, and a free piston in said tool cylinder providing a movable cylinder division whereby air may be alternately exhausted from one end of the cylinder and trapped in the other end.

2,637,301

AIR ACTUATED POWER CYLINDER CONTROL WITH RATE RESPONSE

Edwin Clark Burdick, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 26, 1947, Serial No. 770,560
11 Claims. (Cl. 121—41)



1. A speed control unit adapted for use in modifying the adjustment of a pilot valve which is effected on a change in the value of a controlling quanity to effect the movement of the piston of an air actuated power cylinder into a position predetermined by the value of said quantity, said unit comprising a pair of pressure chambers each having a movable wall, means for mechanically connecting each of said walls to said piston and operative on movement of the latter in one direction to move said walls to contract one and expand the other of said pressure chambers, and operative on movement of the piston in the opposite direction to expand the one and contract the other of said chambers, a pressure equalizing conduit including a restricted portion directly connecting said pressure chambers and a differential pressure device including an element actuated by and in accordance with the difference between the air pressures in said pressure chambers resulting from the expansion of one and the contraction of the other of said pressure chambers, and means for mechanically connecting said element to said pilot valve and operative when said element is so actuated to modify the adjustment of said valve and thereby slow down the movement of the piston as it approaches said position.

2,637,302

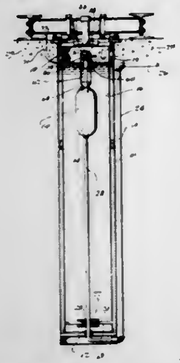
LOW OIL CONTROL

John B. Harrison and Gilbert T. Adams, Memphis, Tenn., assignors to Rotary Lift Company, Memphis, Tenn., a corporation of Delaware

Application November 12, 1949, Serial No. 126,868
3 Claims. (Cl. 121—46)

1. Low oil control for use with a lift including a reservoir having a supply of oil therein and an open ended pipe through which air under pressure may be delivered to the surface of the oil supply to expel a portion of the oil from the reservoir, comprising in combination a cylindrical valve housing attachable to the open end of the pipe and having a valve port in the cylindrical wall thereof and a relief port, a ring valve member slidable on the exterior wall of said housing and adapted to control the flow of air through said valve port, means on said housing

to limit the movement of said ring valve member, a float secured to said ring valve member and responsive to changes in the oil supply level to control the position of said ring valve member so that when the oil in the reservoir falls below a predetermined level said float will move



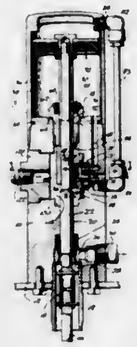
said ring valve member to port closing position, and a second valve member adapted to close said relief port when air under pressure is admitted to said housing from the pipe and to open said relief port when the pressure in the pipe is relieved.

2,637,303
HYDRAULIC ACTUATED VALVE
Juan E. Cintron, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 29, 1947, Serial No. 738,025
6 Claims. (Cl. 121—46.5)



1. A valve device having a body with a bore therein, a pair of plungers coaxially arranged and slidably disposed one in each end of the bore and dividing the same into a central chamber and a chamber in each end of the bore, said plungers being constituted to have valve seats on their adjacent ends, a pair of cylinder ports in communication with the central chamber of the bore at axially spaced positions in the bore, an inlet port in communication with the bore, a return port in communication with the central chamber of the bore, a pair of valve seats in the bore axially spaced apart therein, a pair of hollow valve members coaxially arranged and slidably disposed in the central chamber of the bore and constructed and arranged to engage the valve seats in the bore to normally cut off communication between the inlet port and cylinder ports, communication between the cylinder ports and the return port being established through the hollow valve members, said pair of hollow valve members being movable off said valve seats in the bore by said plungers and provided on one end with a valve head to cooperate with the valve seats on said plungers to control communication between the cylinder ports and the return port, and means for positioning said plungers so that the valve seats on the ends thereof are normally out of engagement with said valve heads to thereby communicate the return port with the cylinder ports, said plungers being movable in response to differential pressures in the end chambers of the bore to control flow between the ports.

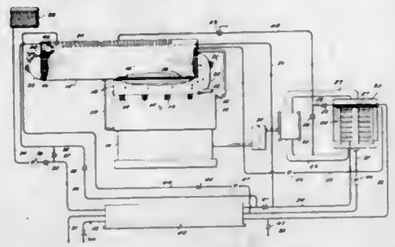
2,637,304
VALVE MECHANISM FOR RECIPROCATING FLUID MOTORS
Henry T. Dinkelkamp, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application January 5, 1950, Serial No. 136,893
9 Claims. (Cl. 121—164)



1. A valve mechanism for a fluid pressure operated motor which includes a reciprocating piston rod having a pair of spaced stops, comprising, a valve seat member having a raised valve seat surface portion and having three ports in the seat surface, a two-position D-slide valve having a pair of transverse grooves therein, a retainer for the valve seat member having an opening for the raised valve seat surface portion thereof and of sufficient thickness to form a guide and end stops for the valve, a spring detent cooperable with the grooves of the valve to hold the latter in either of its positions, a valve operator slidable relative to the piston rod between the stops thereof, said operator having parts thereof engageable with the valve to move the latter between its two operative positions, the spacing of the parts being much greater than the spacing of the surfaces of the valve engaged by the parts, and a quick snap-over mechanism connected to said operator.

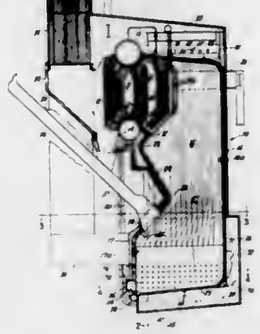
2,637,305
HEAT EXCHANGER FOR INTERNAL-COMBUSTION ENGINES
Albert C. Buffum, Winchester, Mass., assignor, by mesne assignments, to Badger Manufacturing Company, Cambridge, Mass., a corporation of Massachusetts
Application March 30, 1950, Serial No. 152,867
2 Claims. (Cl. 122—149)

2. An engine heat accumulator comprising in combination with an internal combustion engine having an exhaust manifold, a liquid-containing casing disposed for peripheral cooling of said exhaust manifold, a liquid-containing boiler reservoir carried by and above said casing, passage means between said casing and said reservoir providing inter-communication for the liquid between said casing and said boiler reservoir, a heat exchanger within said boiler reservoir, means for directing exhaust gases from said exhaust manifold through said heat exchanger in out-of-contact heat exchange relation with solution within said boiler reservoir, liquid-containing



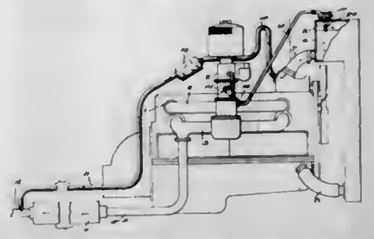
jacket means disposed for peripheral cooling of the cylinders of said internal combustion engine, passage means between said jacket means and said boiler reservoir providing inter-communication for liquid between said jacket means and said boiler reservoir, means for feeding engine-cooling liquid to said boiler reservoir, and means for directing vapor from said reservoir.

2,637,306
FLUID COOLED FURNACE
Charles L. Marquez, Jr., Jersey City, and Elias A. Kazmierski, Bernardsville, N. J., assignors to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application December 9, 1950, Serial No. 200,074
8 Claims. (Cl. 122—240)



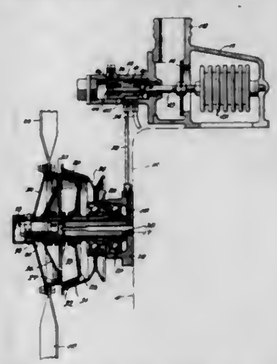
1. A vapor generator having a vertically extending furnace chamber, a vapor generating section receiving heating gases from the upper part of said furnace chamber, vertically extending vapor generating tubes lining the walls of said furnace chamber, means dividing the lower portion of said furnace chamber into a plurality of refuse burning cells comprising spaced rows of vapor generating tubes extending upwardly from the bottom of said furnace chamber and laterally bent towards each other, means forming refractory walls at the outer side of the spaced portions of said tube rows arranged to define opposite sides of a combustion air chamber between adjacent cells, said air chamber terminating in a closed upper end along which the laterally bent portions of said tube rows extend, air inlet ports in said refractory walls opening to said cells between tubes of said tube rows, and means for supplying combustion air to said air chamber.

2,637,307
INTERNAL-COMBUSTION ENGINE
Walton W. Cushman, Webb City, Mo.
Application August 5, 1948, Serial No. 42,662
4 Claims. (Cl. 123—25)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an otherwise conventional internal combustion engine, an exhaust line, a radiator closed to the atmosphere, a fluid line leading from the exhaust line to the radiator at a point below the normal water level, and a second fluid line leading from the radiator at a point above the water line to the intake line.

2,637,308
FAN DRIVE CLUTCH
Adiel Y. Dodge, Rockford, Ill.
Application January 19, 1950, Serial No. 139,409
10 Claims. (Cl. 123—41.08)



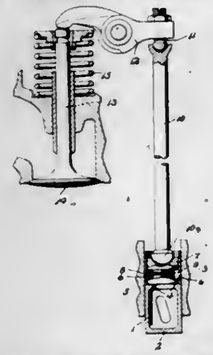
1. A fan drive for an engine driven vehicle comprising a rotatable fan, a driving member rotatable relative to the fan, frictionally engageable parts connected respectively to the fan and the driving member, said parts being relatively shiftable into and out of engagement, fluid pressure operated means to shift the parts, a valve to control the pressure operated means, a second valve to control circulation of coolant through the engine, and a thermostatic device responsive to the temperature of the engine connected to both of the valves to control them.

2,637,309

SELF-ADJUSTING MECHANICAL TAPPET

John W. Humphreys, Muskegon, Mich., assignor to Johnson Products, Inc., Muskegon, Mich., a corporation of Michigan

Application December 5, 1949, Serial No. 131,209
2 Claims. (Cl. 123—90)



1. In a tappet, a cylindrical hollow tappet body having an axial bore, the body being open at its upper end and closed at its lower end, a supporting member circular in outline located within the body at a fixed position therein, having a horizontal lower side and having an upper side with surfaces extending downwardly and outwardly at an angle approximating 9° to the horizontal, a plurality of movable members each having an arcuate outer edge of the same radius of curvature as that of the axial bore, said members being disposed in the same horizontal plane, one located against each of said inclined surfaces, having lower correspondingly inclined engaging sides to bear against said inclined surfaces of the supporting member, the upper sides of said movable members lying in a horizontal plane, a disc member within the hollow body over said movable members adapted to have the pressure of an internal combustion engine valve stem or valve operating push rod thereagainst, and yielding means normally moving said movable members toward each other when free to do so, but permitting said movable members to move away from each other, under vibratory engendered forces of engine operation when the tappet, adapted to be used in an internal combustion engine, is operated therein.

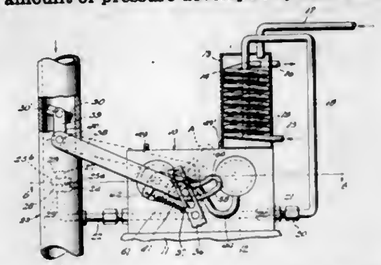
2,637,310

FLUID PROPORTIONING AND CONDITIONING APPARATUS

Lorntz H. Thoresen and Henry L. Thoresen, Chicago, Ill.

Application November 7, 1950, Serial No. 194,556
9 Claims. (Cl. 123—123)

1. An apparatus for use in proportioning mixable fluids to produce a mixture of desired proportions, comprising a mixing chamber, an imput conduit for one mixable fluid leading to said chamber, an adjustable metering valve disposed within said conduit, a second imput conduit for a second mixable fluid leading to said chamber, an adjustable flow valve disposed within said second conduit, an operative connection between said valves whereby the initial setting of the metering valve is dependent upon the setting of said flow valve, and compensating means in cooperative relation with said metering valve for adjusting the initial setting of said metering valve; said means comprising a hollow unit filled with a common fluid, a pressure developing element for said fluid disposed within said unit, the amount of pressure developed by said element



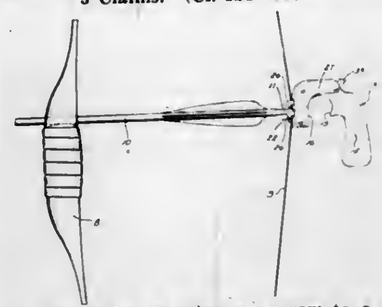
being dependent upon the output from said mixing chamber, and a pressure-responsive member disposed within said unit and operatively connected to said metering valve.

2,637,311

ARROW RELEASING DEVICE

Harry J. Rose, West Allis, Wis., assignor to Make-All Tool & Die Co., West Allis, Wis., a corporation of Wisconsin

Application August 3, 1950, Serial No. 177,520
3 Claims. (Cl. 124—35)



1. A device for securing an arrow to a bow string and releasing the arrow for shooting purposes, comprising a grip member formed at its forward end with a nock socket adapted to be entered by an arrow nock and engaging bow string, a locking plate pivotally carried by the grip member laterally of said nock socket and including bow string engaging fingers, a spring having an end portion carried by said grip member and extending between said locking plate and an arrow nock within said socket and exerting pressure against the plate and nock, and a trigger operated mechanism associated with the grip member and releasably engageable with said fingers to hold the same in bow string confining position, manual release of the trigger operated mechanism reducing the spring tension on the arrow nock and permitting said spring to urge the locking plate and fingers to an inoperative position.

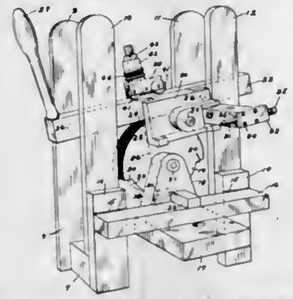
2,637,312

GRINDING WHEEL DRESSING DEVICE

Dale Alderman, Birmingham, Mich.

Application December 17, 1951, Serial No. 262,080
10 Claims. (Cl. 125—11)

1. In a device of the character described, in combination a base, an arcuate member supported against rotation by said base, a tool supporting straight tangent member in non-slipping rocking contact with the periphery of said arcuate member, a carrier rod positioned adjacent to and across one face of said arcuate member and extending beyond the axis of said arcuate member, said carrier rod being secured to a car-



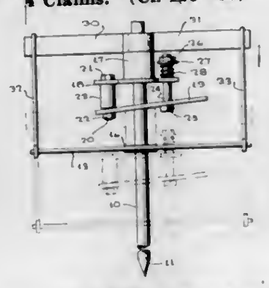
rier at either end thereof, a pair of spaced rollers supported for rotation in each of said carriers, the rollers of one carrier being in rolling contact with the outer periphery of said arcuate member, the rollers of the other carrier being in rolling contact with the outer surface of said tangent member.

2,637,313

ADJUSTABLE GRILL

Calvin J. White, Brimley, Mich.

Application August 25, 1950, Serial No. 181,407
4 Claims. (Cl. 126—30)



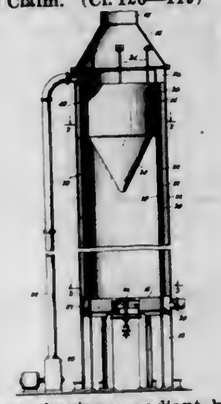
1. An adjustable grill assembly comprising a supporting post disposed in upright position, a grill, an annular collar secured in said grill substantially at the center thereof and slidably receiving said post, a sleeve slidably receiving said post, a first plate secured intermediate its length to one end of said sleeve and having apertures disposed one near each end thereof and one in alignment with the bore of said sleeve, a second plate spaced from said first plate and having apertures respectively in alignment with the apertures in said first plate, a first bolt extending through the apertures at corresponding ends of said first and second plates, a spacer sleeve receiving said first bolt between said plates, a second bolt extending through the apertures at the other ends of said plates and beyond the side of said first plate remote from said second plate, a spring abutment on the end of said second bolt at the side of said first plate remote from said second plate, a spring surrounding said second bolt between said first plate and said spring abutment cramping said second plate relative to said post to hold said sleeve at selected positions of adjustment along said post, a bar secured intermediate its length to the other end of said sleeve and having a sleeve receiving aperture therethrough, and bails suspended intermediate their length from said bar one at each end of the latter and secured at their ends to respectively opposite ends of said grill to suspend said grill from said bar.

2,637,314

FORCED DOWNWARD AIR FLOW AIR-HEATING FURNACE

John S. Wallis and John W. Throckmorton, New York, N. Y., assignors to Petro-Chem Process Company, Inc., New York, N. Y., a corporation of Delaware

Application July 3, 1952, Serial No. 296,986
1 Claim. (Cl. 126—110)



An air heater having a radiant heating zone and a convection heating zone comprising a pair of closely spaced concentric hollow elongated, relatively narrow vertical cylinders located one within the other and forming a narrow annular passage for the air to be heated, a central axial burner within the inner cylinder at its lower end, an outlet stack at the top of the heater, an air inlet at the top of said narrow annular passage, an air outlet at the bottom of said narrow annular passage, extended surface means on the outside of the inner cylinder over substantially its entire length to increase the heating surface for the air to be heated, extended surface means on the inside of the inner cylinder only at the top thereof to increase the heat absorption by the inner cylinder in the convection zone, said inner cylinder having a smooth inner surface over a substantially greater portion of its length adapted to be out of contact with any flame from the burner and forming the radiant heating zone, and a relatively short cylindrical baffle located concentrically within the inner cylinder only at the top thereof and being closely adjacent said inner cylinder and forming the convection zone and having an inverted cone shaped lower extremity extending a short distance into said radiant zone.

2,637,315

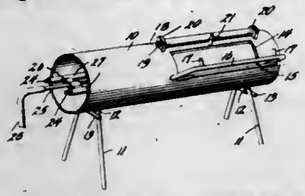
PORTABLE TOOL HEATER

Allen B. Staggs, Henrietta, Tex.

Application April 28, 1950, Serial No. 158,655
1 Claim. (Cl. 126—229)

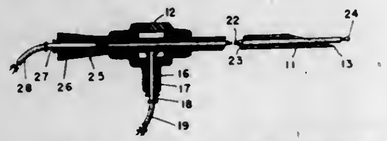
A portable heater for hand tools comprising support means, an elongated tubular casing open at one end and provided with a lateral opening,

said casing being secured on said support means, a transverse partition extending across the interior of said casing between said open end and said lateral opening, an inner tubular member secured interiorly of said casing and extending through said partition and within that part of the casing between said lateral opening and said



open end, guide means supported adjacent said tubular member and extending in parallelism thereto to a point adjacent the open end of the casing, a burner extending within said inner tubular member, means slidably connecting said burner and said guide means, and a flexible conduit for conducting fuel to said burner.

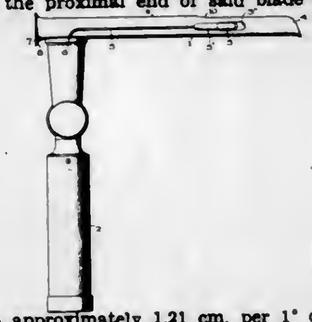
2,637,316
ELECTRICAL MEASURING APPARATUS
Armand C. Grez, New York, N. Y.
Application July 31, 1950, Serial No. 176,837
1 Claim. (Cl. 128—2.1)



Apparatus for measuring the electrical potential of the blood of a living animal subject comprising a tubular electrode having the form of the cannula of an intravenous needle, the pointed end of which is adapted to be placed in the vein of the subject, a thin rod-form electrode adapted to be inserted into the bore of the tubular electrode, said last electrode having its body portion coated with an insulating material and terminating in an enlarged ball-shaped tip which is uncoated, the rod-form electrode being longer than the tubular electrode by an amount providing the desired electrode spacing between its tip and the pointed end of said tubular electrode, and electrical outlets associated with the other ends of said electrodes.

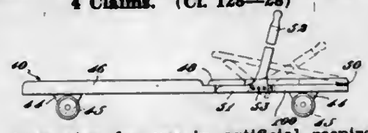
2,637,317
BINOCULAR VISION DIAGNOSTIC INSTRUMENT
Hayes Martin, New York, N. Y., assignor to Welch Allyn, Inc., Auburn, N. Y., a corporation of New York
Application April 13, 1951, Serial No. 220,780
2 Claims. (Cl. 128—6)

1. An instrument blade of the class described, having a proximal and a distal end and being adapted to allow binocular vision by the user thereof of a portion of the posterior oral cavity when the distal end of said blade is inserted into said oral cavity and the user looks through said blade with his eyes within a predetermined range of distance from the proximal end of said blade, said blade converging toward the distal end of said blade, and all of said walls together defining a sight passage extended through said blade, said side walls converging at an angle of approximately 3°, and the distance between said side walls at the proximal end of said blade being



equal to approximately 1.21 cm. per 1° of the angle of convergence of said side walls.

2,637,318
APPARATUS FOR INDUCING ARTIFICIAL RESPIRATION
John H. Emerson, Arlington, Mass.
Application January 12, 1949, Serial No. 70,573
4 Claims. (Cl. 128—28)



1. Apparatus for use in artificial respiration comprising a support upon which the patient may be supported in a prone position face downward, a movable section pivotally connected to the support adjacent to the foot end thereof and normally situated substantially in the plane of the support with the end remote from said pivotal connection located intermediate the ends of the support in a position to underlie the hips of a patient when he is in prone position face downward on the support, and means for alternately raising and lowering said movable section about said pivotal connection, thereby to cause an inspiration by the lifting of the patient's pelvic cage relative to his lung cavity without lifting his feet and an expiration by the restoration thereof to its original prone position.

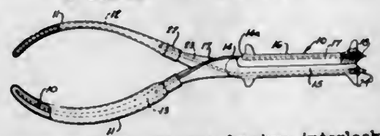
2,637,319
EXERCISER
Alfred J. Bruene, Chicago, Ill.
Application April 1, 1949, Serial No. 84,830
1 Claim. (Cl. 128—49)



An exercising device wherein the user employs muscular inertia to oppose mechanical motive means and comprising: a base; a platform to support the user of the exercising device said platform being mounted on said base for rotation in a horizontal plane on a fixed axis in an arc between extreme positions of oscillatory movement; a motor driven speed reduction power transmission means secured to said base to transmit power to said platform to effect controlled oscillatory movement of the platform, said power transmission means including a drive shaft, a first pulley mounted on said shaft, a second pulley carried by said base, and a belt arranged to ride on said pulleys to facilitate rotation of said second pulley responsive to operation of said motor driven

speed reduction means, a crank arm fixedly secured to said second pulley for rotation therewith and having one end thereof projecting radially outwardly of the periphery of said second pulley, and a connecting link one end of which is pivotally connected to the projecting end of said crank arm and the other end of which is pivotally connected to said platform; and spring means attached between the base and the platform and being ineffective during arcuate movement of the platform midway of the extreme positions of oscillatory but becoming effective during the arcuate movement of the platform in the zone at each side of the midway position to the extreme positions of oscillatory movement to offer a variable force to oppose relative movement between the base and platform, the change of direction of movement of the platform at the extreme positions of oscillatory movement being opposed by muscular inertia exerted by the user, and said variable force of said spring means cooperating with the power and action of said motor driven speed reduction power transmission means being effective to overcome the muscular inertia exerted by the user.

2,637,320
OBSTETRICAL FORCEPS
Emanuel Martin Greenberg, New York, N. Y.
Application July 22, 1950, Serial No. 175,369
5 Claims. (Cl. 128—323)



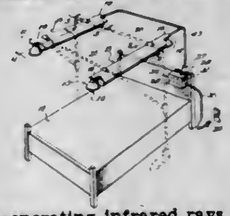
1. In obstetrical forceps having interlocking coacting blades actuated by hollow handle members integrally formed with the shanks of the blades; an inflatable rubber sleeve removably disposed over each blade, the sleeve having a constricted neck coacting with the shank of the blade, a tube for each sleeve removably disposed through the hollow handle of the blade, the end of the tube adjacent the interlocking means being secured in the neck of the sleeve, and means removably sealing the neck of the sleeve around the tube and shank.

2,637,321
SHAPED ARTICLE AND METHOD OF PRODUCING IT
Arthur Cresswell, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 27, 1951, Serial No. 248,671
13 Claims. (Cl. 128—335.5)

1. A shaped article consisting essentially of regenerated collagen free from fibers and any other material insoluble in a dilute aqueous solution of an organic acid.

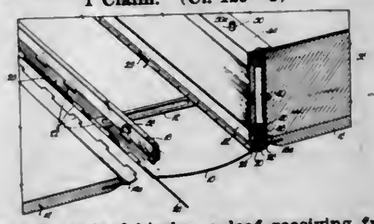
2,637,322
APPARATUS FOR PRODUCING HEALTHFUL SLEEP
Murray G. Clay, Chicago, Ill.
Application November 8, 1949, Serial No. 126,229
1 Claim. (Cl. 128—396)

Apparatus for promoting health-sleep comprising ray generating means embodying a support frame, a pair of spaced lamps comprising sources of visible light and invisible ultraviolet radiation mounted on said frame in position to project rays from said lamps within a treatment zone spaced from said frame, a light filtering member disposed in the path of rays projected from said lamps to exclude from said zone substantially all rays emitted from said lamps and having wave lengths either greater than 4200 Angstroms or less than 2800 Angstroms, to thereby apply in said zone substantially invisible rays including rays within the wave length zone from 2800 to 3200 Angstroms, infrared ray generating means mounted on said frame between said



lamps for generating infrared rays and projecting the same within said treatment zone, an electrical power supply circuit, connected with said generating means to energize the same, and adjustable means connected in said circuit to control the power supplied to said generating means and thus regulate the intensity of said infrared rays to compensate for the normal heat loss from the body of a treatment subject disposed in said zone, whereby the treatment subject in said zone may be exposed to infrared and ultraviolet ray treatment substantially in sleep-promoting darkness.

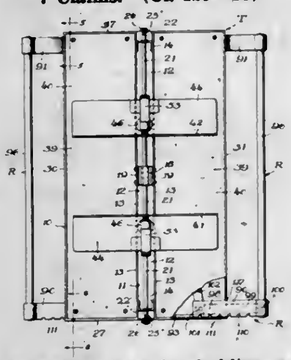
2,637,323
LOOSE-LEAF BINDER
Charles Howard Lockwood, Atchison, Kans., assignor to The Lockwood Company, Inc., a corporation of Kansas
Application October 11, 1951, Serial No. 250,843
1 Claim. (Cl. 129—8)



In a loose-leaf binder, a leaf-receiving frame comprising a pair of parallel strips each having a set of leaf-impaling posts rigidly secured thereto, the posts of each strip projecting toward the other strip, means on each strip cooperating with each post of the opposite strip for engaging said posts for maintaining said posts and strips in alignment and for maintaining the posts of the respective sets in parallelism and for maintaining the strips at a predetermined minimum distance apart, a pair of catch studs on each strip projecting outwardly from said frame, at least one of said studs on each strip having a camming surface, a pair of elongate housings each having a plurality of aligned apertures therein to receive the studs of one strip, a spring-biased latching mechanism in each housing normally engaged with the studs received in that housing thereby to releasably latch the housing to the strip in

parallel superposed relation thereto, said latching mechanism having a surface to cooperate with said camming surface to move said latching mechanism, a binder back normally positioned adjacent said strips, front and rear covers overlying said housings, hinge means connecting each said front and rear cover and its associated housing to a corresponding longitudinal edge of said back on a single axis, spring means biasing each housing on its hinge toward its respective cover for engagement with the inside of its respective cover when unlatched from the strip thereby to free that hinge from the frame and permit the back to swing away from said strips, said back upon being returned to its position adjacent said strips being effective to preposition the free hinge so that closing of the binder cover carried by that hinge will rotate the unlatched housing maintained thereagainst on said hinge and automatically bring the apertures in said housing into register with the exposed studs on said frame, said latching mechanism in each housing being self-actuating to seize the studs automatically upon their entry into the associated housing via said apertures.

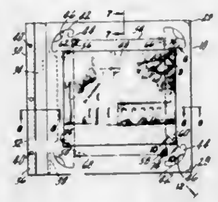
2,637,324
POSTING TRAY
Samuel Segal, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Original application November 2, 1945, Serial No. 626,316. Divided and this application December 31, 1949, Serial No. 136,382
7 Claims. (Cl. 129—16)



1. In a posting tray for holding a stack of sheets, a base for supporting said stack, a rack for increasing the effective width of said base comprising a rail disposed above said base and spaced arms sustaining said rail, said arms being shiftable relative to said base, stabilizing linkage interconnecting said arms and disposed within said base, said linkage having a plurality of fixed pivots to cause simultaneous displacement of said arms upon actuation of said rail to provide for uniform displacement of said arms out of or into said base upon bodily withdrawal or retraction of said rack relative to said base, and disengageable locking means to preclude bodily displacement of said rack relative to said base.

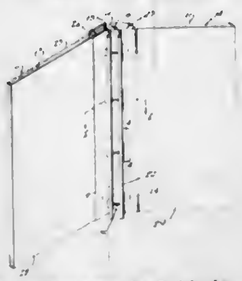
2,637,325
DUPLEX ALBUM LEAF FOR PHOTOGRAPHIC PRINTS
Walter A. McCabe, East Haddam, Conn., assignor to Ernestine McCabe, East Haddam, Conn.
Application August 18, 1950, Serial No. 180,193
2 Claims. (Cl. 129—20)

1. In a duplex album leaf for photographic prints, the combination of a body comprising two similar rectangular front and rear cardboard sections parallel with each other which sections are firmly connected with each other, means for spacing the major portions of the areas of said sections, cuts in each of the body sections near the corners thereof and at the corners of a square, two pairs of notches in each of the respective body sections for directly locating and holding on the outer face of each of them a photographic print having a predetermined size smaller than the corresponding aforesaid square and having an oblong shape, the notches of one pair in each section being positioned to receive diagonally opposite corner portions of a print in horizontal position and in a predetermined general location and the notches of the other pair in each section being positioned to alternatively receive diagonally opposite corner portions of a



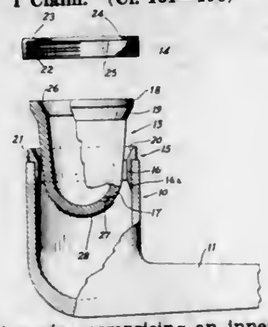
print in vertical position in the same general location, and front and rear square cardboard framing mats each of such size that it may be connected to the outer face of the corresponding body section by the insertion of its corner portions in the said cuts in the said body section and be accommodated in the space between said sections, each mat having an oblong opening therein which is of approximately the same size and shape as the corresponding print and which is so located that the said print is visible through the said opening when the print is located and held by the corresponding notches and when the corner portions of the mat are inserted in the corresponding cuts and each mat by reason of its square shape being adapted to be connected to its body member with the oblong opening in the said mat either in horizontal position or in vertical position according to the position of the corresponding print.

2,637,326
LOOSE-LEAF BINDER
Phillip Witz, Denison, Tex.
Application May 16, 1952, Serial No. 288,149
1 Claim. (Cl. 129—25)



An extensible loose leaf binder comprising a pair of resilient coextensive stiffening bars having registering longitudinally spaced shank receiving openings extending therethrough, a binding strip of flexible material enclosing each stiffening bar, a flange carried by and extending outwardly from one longitudinal side edge of each binding strip, a back board adhesively and mechanically fastened to each flange and projecting outwardly from the longitudinal side edge thereof remote from its respective stiffening bar, said back boards being coextensive and adapted to cover leaves supported between the stiffening bars, a flexible protecting strip adhesively secured to each back board adjacent the edge thereof adjacent its respective binding strip and on the side of said back board remote from its respective flange for covering the mechanical fastening means, a lining sheet coextensive with and adhesively secured to each back board in covering relation to the protecting strip, a flexible hinge strip adhesively secured adjacent its longitudinal side edges to the flanges in covering relation to the mechanical fasteners, and a flexible cover adhesively secured to the back boards and to the hinge strip, and said cover having panels which are coextensive with the back boards.

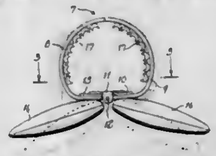
2,637,327
SMOKING PIPE
Philip Nadelson, Long Island City, N. Y.
Application May 25, 1950, Serial No. 164,239
1 Claim. (Cl. 131—196)



A smoking pipe comprising an inner bowl of porous ceramic material and an outer bowl having the usual stem portion, a metal ring having a depending portion permanently cemented to the inner upper surface of said outer bowl, said metal ring having a portion thereof externally threaded, the inner bowl having an enlarged collar section at its upper periphery, said collar section having its under surface beveled to an inclined conical surface of not less than 45 degrees, the inner surface of the metal ring having a corresponding degree of inclination so that the inner bowl will be matingly received thereby, the maximum horizontal outer diameter of the inner bowl below the metal ring being less than the inside diameter of the outer bowl to provide a space therebetween, and a metal cap ring in threaded engagement with said metal ring and having a flange adapted to bear against the upper surface of the inner bowl.

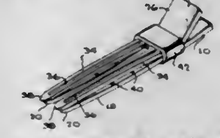
2,637,328
HAIR HOLDER
Siegfried Behr, Flushing, N. Y.
Application September 4, 1951, Serial No. 244,921
1 Claim. (Cl. 132—46)

A holder for lady's hair comprising a pair of semi-annular bands hingedly connected together at one end for swinging movement toward and away from each other to closed and open positions, respectively, said bands when in closed position cooperating to form a ring and when in open position being adapted to receive a bunch of hair therebetween, said hinge connection including plates integral with the adjacent ends of the bands and extending toward each other, a pin extending through the extensions of said plates, a coiled spring encircling said pin and having op-



positely disposed free ends, one of said free ends pressing against one of said plates, the other of said free ends pressing against the other of said plates whereby the ends of the bands opposite the hinge ends are urged into edge to edge engagement, aligned clusters of teeth on the inner surfaces of said bands adapted to be embedded in the hair for holding the strands of hair in combed position and finger pieces integral with the bands extending in opposite directions for moving the bands to open position.

2,637,329
HAIR CLIP FOR USE IN GIVING PERMANENT WAVES
Eileen E. Reiter, Ada, Ohio
Application October 2, 1951, Serial No. 249,315
2 Claims. (Cl. 132—46)



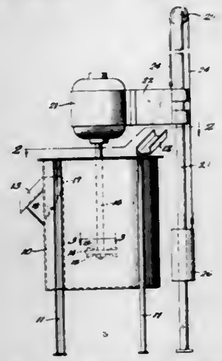
1. A hair clip having its main application to the permanent waving of ladies' hair and comprising a pair of cooperating clip members each of which is of integral construction and is formed of a material impervious to chemical solutions applied to the hair during the permanent waving thereof, each of said clip members including a generally flat body, a finger-receiving plate extending from one end thereof, and a pair of elongate arms extending from its other end, each arm having a longitudinal slot closed at its opposite ends and extending substantially the full length of the arm in which it is formed to permit the free passage through the arms of said chemical solutions, the arms of one of said clip members being formed with longitudinally spaced teeth extending in the direction of the arms of the other clip member, said teeth being arranged transversely of the arms on which they are formed and being disposed at opposite sides of the longitudinal slot of said arms, said bodies being rockably interengaged for spreading of the arms of the respective members responsive to manually exerted pressures tending to urge said plates toward one another, to position a plurality of strands of hair between the arms; and means operatively associated with said bodies and exerting a continuous yielding pressure thereagainst tending to bias the arms into a longitudinally contacting relationship.

2,637,330

APPARATUS FOR CLEANING GRANULAR MATERIAL

Roderick Webster, Chicago, Ill., assignor to The Hydro-Blast Corporation, Chicago, Ill., a corporation of Illinois

Application December 20, 1946, Serial No. 717,537
3 Claims. (Cl. 134—182)



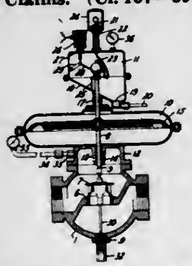
3. Apparatus for cleaning granular material comprising a vertical substantially cylindrical receptacle, means to supply a flowable mixture of granular material and water to the receptacle, an impeller rotatably mounted on a vertical axis in the lower central part of the receptacle to circulate the mixture radially outward therefrom, the receptacle being formed in its side adjacent its top with an outlet opening constituting the sole outlet for cleaned material, a vertically elongated baffle extending radially inward from the receptacle wall closure adjacent at least one side of the opening, and a second baffle extending inward and upwardly at an acute angle to the vertical from and connected throughout its width to the receptacle side wall adjacent to and below the opening, the second baffle joining the first named baffle and being substantially coextensive radially therewith.

2,637,331

SAFETY CUTOFF VALVE

Timothy J. Sullivan, Butte, Mont., assignor to Sullivan Valve and Engineering Company, Butte, Mont., a corporation of Montana

Application April 23, 1952, Serial No. 283,891
6 Claims. (Cl. 137—39)



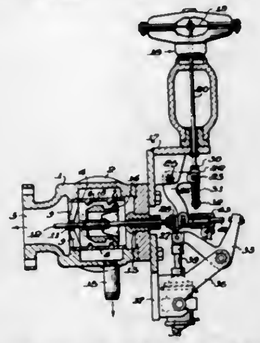
1. A safety cut-off valve for use in a pressure gas line comprising a valve casing divided into an inlet chamber and an outlet chamber by a partition provided with a valve seat, a valve element cooperating with said valve seat, a hollow valve stem carrying said valve element and having a port affording communication between its bore and the inlet chamber of the valve casing, a diaphragm chamber above said valve casing and an upper chamber above said diaphragm chamber, a flexible diaphragm extending across said diaphragm chamber and secured to said valve stem to actuate the same, the lower and the upper sections of said diaphragm chamber being in communication with the inlet chamber of the valve casing and the upper chamber respectively, said hollow valve stem extending upwardly to terminate in a valve seat within said upper chamber, a vent port in the bottom wall of said upper chamber and of greater gas-carrying capacity than said hollow valve stem, a ball valve adapted to seat upon the valve seat at the upper end of said valve stem or alternatively upon said vent port, thereby to vent pressure gas from the upper chamber and the upper section of the diaphragm casing or alternatively to equalize the gas pressures in the sections of the diaphragm casing, and a manually operable flexible connection to said ball valve for lifting the same from said vent port and into position above said valve stem seat, said ball valve being displaceable by abnormal shock from its seat on the hollow valve stem.

2,637,332

SPEED REGULATING APPARATUS FOR FLUID DRIVEN PRIME MOVERS

Coartland Howland Langworthy, Irwin, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania

Application August 9, 1950, Serial No. 178,415
1 Claim. (Cl. 137—47)



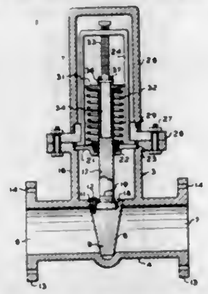
Speed regulating apparatus comprising a valve housing, a valve member in the housing for controlling fluid flow through it, an axially movable stem connected to the valve member for moving it and projecting from the housing, a control stem mounted adjacent the outer end of the valve stem at an angle thereto, means operatively connected to the control stem for moving it axially, a crank pivotally mounted beside the adjacent ends of the two stems, means operatively connecting one end of the crank to the valve stem for movement therewith in opposite directions, the opposite end of the crank being movable lengthwise of the control stem, means on the control stem limiting movement of said opposite end of the crank along the control stem in such direction that movement of the control stem in the opposite direction will close the valve, and a spring on the control stem resisting movement of the crank away from said limiting means so that movement of the control stem in the direction opposite to its valve-closing direction normally will open the valve, and selectively operable means for moving the valve stem and crank against the resistance of the spring to close the valve independently of the control stem.

2,637,333

EMERGENCY VALVE

William L. Houston, Jr., and Marshall F. Rawlings, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application September 9, 1948, Serial No. 48,394
5 Claims. (Cl. 137—68)



1. An emergency valve comprising in combination a valve body having an inlet and outlet passage and a valve seat connecting said inlet and outlet passages, a valve mounted to move in said body to and from said seat and to seat directly in contact with said seat and thereby control fluid flow through said inlet and outlet passages, means mounted on said body biasing said valve away from said seat, means mounted on said body providing a force holding said valve closed on said seat, said last means including a portion fusible at a predetermined temperature to yield whereby said biasing means moves said valve off said seat, and supplemental sealing means sealing off said inlet passage from said valve and disposed in said inlet passage comprising a cup shaped member in contact with said valve and the walls of said inlet passage when said valve is closed on said seat but not extending between said valve and said seat, said sealing means being frangible at a predetermined pressure in said inlet passage when placed in tension by the movement of said valve off said seat, but being protected from the force holding said valve against said seat.

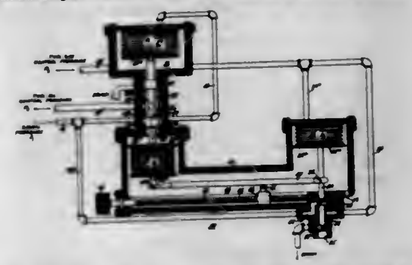
2,637,334

FLUID PRESSURE SERVO MECHANISM

Neal E. Starkey, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 26, 1950, Serial No. 181,651
7 Claims. (Cl. 137—85)

1. Hydraulic servo mechanism comprising a main pilot valve with a first movable member, first expansible chamber means adapted to exert a force on said member proportional to a first pressure, second expansible chamber means adapted to exert a force on said member in opposition to said first means proportional to a second pressure, the main pilot member being adapted to control the flow of operating liquid to the second expansible chamber means to establish said second pressure therein, auxiliary pilot means having a second movable member, third expansible chamber means adapted to exert a force on said second movable member proportional to a third pressure, the auxiliary pilot member being adapted to control the flow of operating liquid to the third expansible chamber means to establish said third pressure therein, means for communicating the third pressure to the first expansible chamber means in opposition



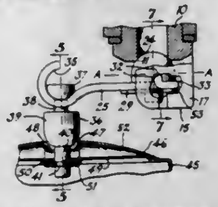
to the first pressure, and lever means connecting said second movable member with said second expansible chamber means, whereby the main pilot member is positioned by the sum of the second and third pressures acting in opposition to the first pressure, and the second and third pressures are maintained in a preselected ratio to each other.

2,637,335

VAPOR TRAP

William S. Goff, Cleveland, Ohio, assignor to The Clark Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

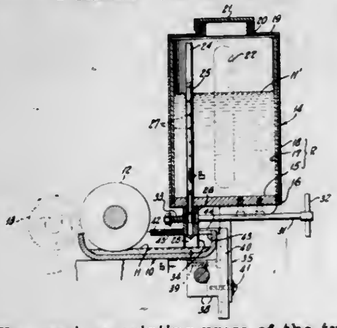
Application November 8, 1949, Serial No. 126,227
26 Claims. (Cl. 137—185)



1. A fluid trap having a housing defining an outlet orifice, a valve seat surrounding said orifice, a valve element having a spherical surface for engaging said seat to close said orifice and for rotating on said seat to and from a normal orifice closing position, a valve actuating lever attached to the valve element and mounted for oscillation to move the valve element in orifice opening and orifice closing directions, said lever being shaped to provide a pair of rocking fulcrum elements spaced apart generally longitudinally of the lever, structure fixed with respect to said orifice and shaped to provide a cooperating pair of stationary fulcrum elements spaced apart generally longitudinally of the lever, said stationary fulcrum elements and said valve seat being arranged in a spacial relationship with said spherical surface and said rocking fulcrum elements such that said rocking fulcrum elements are spaced away from said stationary fulcrum elements when the valve element is in its normal orifice closing position and such that said rocking fulcrum elements successively engage said stationary fulcrum elements, respectively, to provide lever arms of different effective lengths as the lever is moved in an orifice opening direction

for first rocking the valve element on the valve seat and then moving the valve element away from the valve seat, and power means disposed in said housing for reciprocation along a path between predetermined limits, said power means being connected to said lever for oscillating the same to move said valve element in orifice opening and orifice closing directions, said valve element being in its normal orifice closing position when said power means is at one of the limits of its path of travel, whereby movement of the power means along said path for effecting orifice opening movement of the lever first causes the valve element to rotate on its seat for engaging one of said rocking fulcrum elements with one of said stationary fulcrum elements and then causes the lever to rock on said stationary fulcrum elements successively for moving the valve element away from its seat.

2,637,336
PRINTING PRESS
James R. Emery, Jr., Teaneck, N. J.
Application May 13, 1950, Serial No. 161,873
4 Claims. (Cl. 137—454)



1. For use in a printing press of the type including a roller operating in only a partially submerged condition with relation to an aqueous solution carried within a fountain and there required to be maintained between relatively close maximum and minimum operating levels; a liquid-supply unit including a reservoir adapted for the reception of a liquid to be delivered to said fountain, hydro-statically controlled means governing the delivery of liquid from said reservoir to said fountain so as to maintain the fountain solution between said operating levels and including a control bell associated with said reservoir and having a depending skirt-like wall defining an air chamber adapted to open into said fountain and within which liquid is adapted to rise and fall to an extent comparable with the difference between said operating levels, the lower end of said skirt-like wall terminating in different horizontal planes one spaced above the other in accordance with the difference between said operating levels, an air tube leading from said chamber into said reservoir, a liquid tube leading from said reservoir to said chamber.

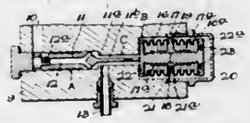
2,637,337
VALVE FOR SHOCK ABSORBERS
Eric L. Martin, Santa Monica, Calif., assignor to North American Aviation, Inc.
Application September 7, 1948, Serial No. 48,101
1 Claim. (Cl. 137—498)

A flow-regulating device comprising a passageway; means defining a chamber in said passageway; orifice means at one end of said chamber; a floating plug in said chamber, said plug having a forward portion conforming generally to said orifice, an enlarged central portion of substantially the same cross-sectional area as said chamber, and a rear portion which decreases in cross-sectional area from said central portion; and second orifice means at the other end of said



chamber which is more restrictive than said first orifice to prevent rapid flow through said chamber whereby a steady or gentle flow of fluid through said first orifice means will unseat the nose of said plug therefrom and hold the same in open position, whereas a sudden or large flow will create sufficient pressure in the rear part of said chamber to tend to force the plug into closed position against the direction of flow.

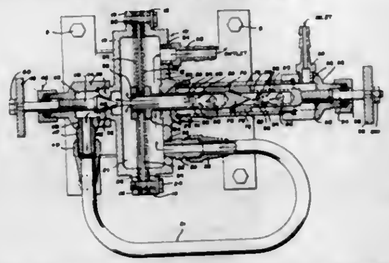
2,637,338
SHUTOFF VALVE
Jean Troendle, Geneva, Switzerland
Application August 25, 1947, Serial No. 770,400
In Switzerland May 2, 1947
5 Claims. (Cl. 137—498)



1. An automatic shut-off valve for pneumatic control systems, including, a valve housing having a valve chamber provided with a valve seat and a damper chamber in communication with the valve chamber by a guide passage, a compressed air inlet at the end of the valve chamber opposite said valve seat, a compressed air outlet communicating with said guide passage downstream of said valve seat, a valve in said valve chamber and having a hollow stem, a plug having a calibrated orifice at the inlet end of said hollow stem of the valve, said plug end of the valve being exposed to air pressure from the said compressed air inlet, and damper means in said damper chamber connected to said valve and operable independently of the air in the pneumatic system and for damping the motion of said valve, said damper means including, spring means normally exerting a force of sufficient magnitude on said valve to maintain the same unseated while the air pressure drop across the valve is below a predetermined value, and whereby, when the pressure on the downstream

side of the valve drops abruptly, said damper means will permit the valve to seat after a predetermined period of time.

2,637,339
FLUID-FLOW REGULATOR
Marshall C. Pease, Needham, Mass., assignor to the United States of America as represented by the Secretary of the Navy
Application February 9, 1951, Serial No. 210,131
8 Claims. (Cl. 137—501)



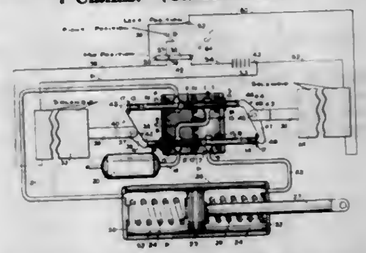
4. A constant flow regulator valve for fluids comprising a pair of valve body parts, a movable member dividing said body parts into a first chamber and a second chamber, a valve controlled outlet port in said first chamber, a hollow plug connected at one end to the central part of said movable member and extending outward laterally through said second chamber and the valve body part forming said second chamber, valve means controlling the supply of a fluid through said hollow plug into said first chamber, a discharge duct connecting said valve controlled outlet port in said first chamber with an inlet into said second chamber, and an outlet in said second chamber, whereby fluid delivered to said first chamber through said hollow plug is conveyed therefrom by said discharge duct to said second chamber for discharge through said second chamber outlet.

2,637,340
PRESSURE CONTROL VALVE DEVICE
Arthur J. Bent, Penn Township, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Original application July 22, 1947, Serial No. 762,771, now Patent No. 2,608,052, dated August 26, 1952. Divided and this application June 15, 1948, Serial No. 33,045
1 Claim. (Cl. 137—583)



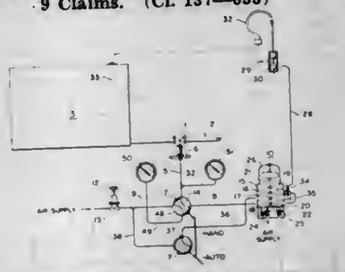
A control structure for providing in a casing outlet passage a "mean" of a fluctuating pressure in a casing inlet passage open to said outlet passage, a check valve in said casing for permitting flow of fluid under pressure in the direction from said inlet passage to said outlet passage but arranged to prevent reverse flow of such fluid under pressure, a constantly open restricted communication in said casing connecting said outlet passage to said inlet passage around said check valve, and a restricted atmospheric vent in said casing open to said outlet passage.

2,637,341
FLUID PRESSURE CONTROL VALVE DEVICE
Douglas R. Borst, Pitcairn, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application July 27, 1949, Serial No. 107,043
7 Claims. (Cl. 137—623)



3. A control device comprising a casing, two shafts slidably mounted in parallel spaced apart relation in said casing, two collars formed on each of said shafts to limit the movement of said shafts in each direction, two rockable levers the opposite ends of each engaging one end of each of said shafts, a movable plunger pivotally connected to each of said levers intermediate its ends in a manner to effect rocking of the lever in one direction to move one of said shafts the limit of its movement in one direction and, upon said one shaft reaching the limit of its movement in one direction, to effect rocking of said lever in the opposite direction to move said other shaft the limit of its movement in the same direction, and means for moving said plungers to rock said levers.

2,637,342
FLUID PRESSURE CONTROL
Jack F. Shannon, Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application October 22, 1948, Serial No. 56,001
9 Claims. (Cl. 137—653)



2. A system for controlling a condition comprising, in combination, pressure responsive valve means for regulating the flow of fluid determining the condition, means including a relay operating to establish a first pressure varying in value in response to changes in the condition from a predetermined value, manually adjustable means for establishing a second pressure at any desired value, a manually adjustable valve for subjecting said pressure responsive valve means selectively to said first and second pressures, means including said manually adjustable valve for subjecting only the second pressure on the means including a relay establishing said first pressure said relay operating when subjected to said second pressure to establish a third pressure proportional to the value of said condition

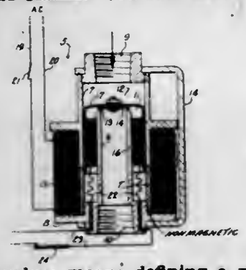
and to said second pressure, a pressure gage for indicating the value of the pressure supplied to said pressure responsive valve means, a second pressure gage, and means including said manually adjustable valve for subjecting said second gage selectively to said second and third pressures.

2,637,343

GAS VALVE AND ELECTROMAGNETIC CONTROL THEREFOR

Russell B. Matthews, Wauwatosa, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application October 17, 1949, Serial No. 121,817
21 Claims. (Cl. 137—692)



18. In a valve: means defining a passageway through the valve including spaced concentric inner and outer magnetically permeable tubular members fixed with respect to one another with the outer tubular member extending a distance beyond one end of the inner tubular member to define a valve chamber; a movable valve element in said chamber movable to and from a position closing off flow of fluid through said passageway; a pair of coacting annular magnetic field producing elements, each encircling the inner tubular member, one of said magnetic field producing elements being stationary and the other being axially movably located in the space between the inner and outer tubular members; one of said magnetic field producing elements being a solenoid and upon energization thereof effecting magnetic repulsion between the two field producing elements to thereby cause the movable magnetic field producing elements to move axially in one direction; and means connecting the movable valve element with said movable magnetic field producing element and through which said movable magnetic field producing element controls the position of the movable valve element.

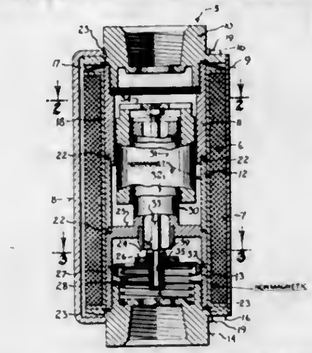
2,637,344

ELECTROINDUCTIVELY ACTUATED VALVE

Russell B. Matthews, Wauwatosa, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application August 22, 1949, Serial No. 111,621
7 Claims. (Cl. 137—729)

6. In a valve: spaced concentric inner and outer tubular members defining a fluid passageway through the valve, said members being fixed with respect to one another and the outer tubular member extending a distance beyond one end of the inner tubular member to define a valve chamber; a valve element in said chamber movable to and from a position closing off the flow of fluid through said passageway; spring means acting on said valve and tending to move it toward its closed position; a solenoid surrounded by the outer tubular member and surrounding the inner tubular member; a stem extending axially inside the inner tubular member and movable endwise therein under the control of said solenoid; and



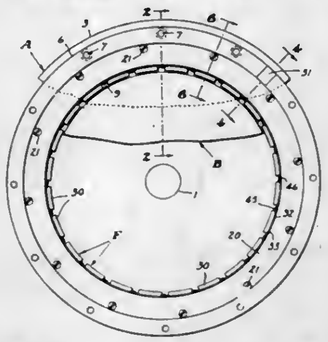
a motion transmitting connection between said stem and the movable valve element.

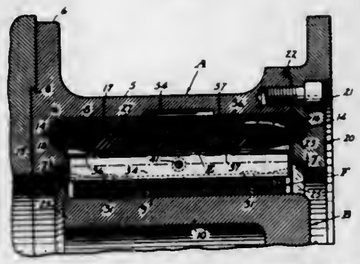
2,637,345

TORQUE TRANSMITTING DEVICE EMPLOYING EXTENSIBLE RESILIENT CLUTCH ELEMENTS

Herman T. Kraft, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application August 16, 1947, Serial No. 769,059
27 Claims. (Cl. 137—784)





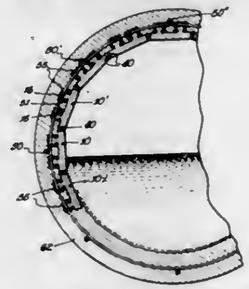
1. A fluid motor for use in a torque transmitting device, said motor comprising a rigid member, an arcuate element carried by said rigid member, said arcuate element being substantially channel shaped in cross section and having a curved body portion and spaced curved flanges each inclined to the body portion, a resilient deformable element normally positioned in the space between the flanges of the arcuate element, said resilient element being curved concentrically to the arcuate element and having integral side portions embracing said flanges of the arcuate element, the deformable element normally, in its unstressed condition, extending radially into the space between the spaced flanges of the arcuate element and seating against the body portion of the arcuate element, and means for introducing a fluid under pressure between the arcuate element and the deformable element to displace the latter from said normal position.

2,637,346

RESISTANT PIPE AND CONDUIT CONSTRUCTION

Howard W. Jewell, Los Angeles, Calif., assignor to Pacific Clay Products, Los Angeles, Calif., a corporation of California

Application December 14, 1949, Serial No. 132,889
8 Claims. (Cl. 138—86)



1. A pipe or conduit comprising: a cage composed of parallel reenforcing rods extending longitudinally of the conduit and spaced from each other; a plurality of circumferentially disposed, longitudinally spaced, curved rods fastened to the longitudinal rods; ceramic liners provided with resistant inner faces, positioned within the cage in adjacent relation, the rear face of each liner carrying a longitudinally extending, headed integral rib in contact with not less than two of the circumferential rods; the longitudinally extending sides and transversely extending ends of each liner being provided with an adherent, resistant and resilient bonding member; and a monolithic, cementitious, outer layer in contact with rear faces of the liners and covering said ribs and cage.

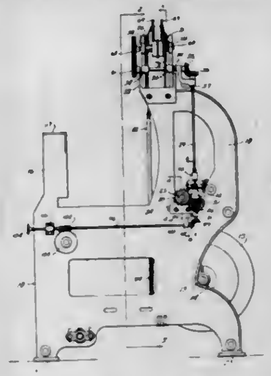
2,637,347

HEAD MOTION FOR LOOMS

Adolphus H. Landry, North Miami, Fla.

Application December 8, 1950, Serial No. 199,861
6 Claims. (Cl. 139—55)

1. In combination with a loom having end frames, an arch disposed above and mounted at its ends on said end frames, a crank shaft journalled in said end frames and disposed below said arch, and a head motion mechanism mounted on said arch at one end thereof and adjacent one of said end frames, means drivingly connecting said crank shaft to said head motion mechanism comprising a bracket mounted on said one end frame at the corresponding end of said crank shaft, a vertically disposed shaft journalled in said bracket and extending between said crank shaft and said head motion mechanism, gear means drivingly connecting said shaft at the end thereof adjacent said head motion mechanism to the latter, a clutch mounted on said shaft and including two separable parts one of which is drivingly connected to said vertically disposed



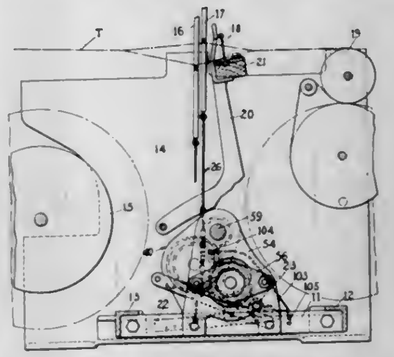
shaft and the other which is rotatably mounted thereon and drivingly connected thereto only when said two clutch parts are together, and gear means drivingly connecting said crank shaft to said other clutch part.

2,637,348

HARNESS CAM AND TREADLE MEANS FOR LOOMS

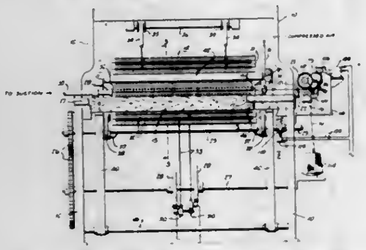
Leonard M. Rogers, Mendon, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application August 2, 1951, Serial No. 239,960
21 Claims. (Cl. 139—79)



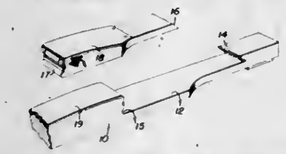
1. Harness cam and treadle means for looms having in combination a plurality of treadles, means upon which said treadles are pivoted adjacent the front of the loom, a cam shaft and cams thereon, one cam for each treadle, rotatably mounted above and intermediate the ends of said treadles, a constantly rotating shaft in said loom adjacent said cam shaft and a gear train including a pinion on said driven shaft and a gear on said cam shaft, and a casing enclosing said gear train and serving to retain lubricant for at least some of said gears.

2,637,349
SHUTTLELESS LOOM WHICH PNEUMATICALLY PROJECTS WEFT THREAD
George W. Dunham, Westport, Conn.
Application December 24, 1948, Serial No. 67,134
13 Claims. (Cl. 139—127)



1. In a loom, mechanism to form a shed, a jet projector at one end of said shed, a suction tube at the other end of said shed, means for supplying substantially constant pressure to said jet projector, means for supplying substantially constant suction to said suction tube, a weft metering device comprising a continuously rotating measuring wheel, a presser member intermittently pressing against said measuring wheel, means for guiding weft thread between said measuring wheel and presser member and into said jet projector, means synchronized with the loom for urging said presser member and measuring wheel together at a time when the shed is open, and for holding said member and wheel together until a predetermined length of thread is fed to said jet projector.

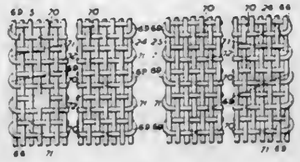
2,637,350
SHUTTLE BINDER
Vernon J. Phillips and Hugh H. Brown, Anderson, S. C.
Application January 7, 1952, Serial No. 265,268
3 Claims. (Cl. 139—185)



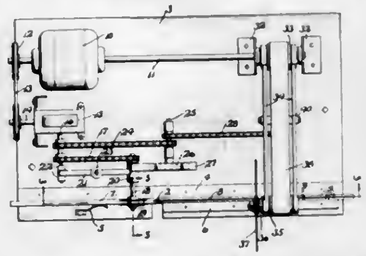
3. In a shuttle binder, a shoe having a longitudinally extending recess, said recess having formed end surfaces, an insert conforming in shape to said recess and having its ends formed correlative to said surfaces so that the insert is interlocked within the recess when engaged by a press fit in the latter, said insert having a convexed outer surface for contact by a shuttle.

2,637,351
SELVEDGE FOR WOVEN FABRICS
Henry J. Cooper, Stockport, England
Application October 11, 1950, Serial No. 189,602
In Great Britain October 31, 1949
5 Claims. (Cl. 139—383)

1. A selvedge for a woven fabric comprising an edge part of a warp, pieces of weft which are separate from one another and terminate short of the edge of the said part of the warp and are woven into the warp, and other pieces of weft which are separate from the first named pieces and from one another and have portions turned into and woven into the said part of the warp for filling the gaps left by the termination of the first named warp threads short of the edge of the said part of the warp.



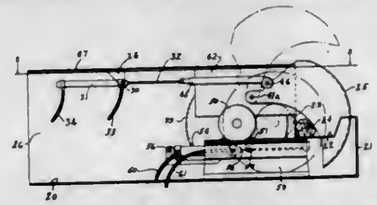
2,637,352
GLUE BLOCKMAKING MACHINE
Robert G. Reed and Francis C. Crowley, Grand Rapids, Mich., assignors to John Widdicomb Company, Grand Rapids, Mich., a corporation of Michigan
Application April 3, 1950, Serial No. 153,554
2 Claims. (Cl. 143—46)



1. In a structure as described, a horizontal base plate, a material guide located lengthwise of the base plate at one longitudinal edge portion thereof, an arm pivotally mounted at one end on and above the base plate, a first shaft rotatably mounted in the other end of the arm, disk means connected to said shaft, said disk means having material engaging edges for engaging with material guided by said guide, an electric motor having a motor shaft, a second shaft driven from said motor at low speed, belt connections between said shaft and the disk means carrying shaft for turning the latter shaft continuously, a member connected at the free end portion of said arm, a third shaft driven by said motor driven shaft, a cam on said third shaft extending under said member upon which said member bears, said cam having a contour for successively raising and lowering the first mentioned shaft and the disk feeding means thereon on rotation of the cam, a cut-off saw located above and transversely of said guide, means for mounting said saw for lifting and lowering, means for driving said saw from the motor, and means for lifting the cut-off saw when the disk feeding means is lowered and lowering said saw when the said feeding means is lifted.

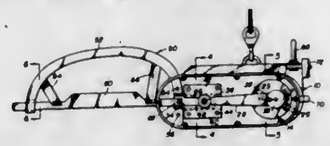
2,637,353
TRAVELING-SAW MACHINE WITH AUTOMATIC GUARD
Andrew Hyslop, Jr., Adena, Ohio
Application January 8, 1948, Serial No. 1,147
6 Claims. (Cl. 143—47)

2. A device for sawing comprising: a frame having a cutting station at which the article to be sawed is supported; saw means carried by said frame and movable from a non-operating to an operating position for sawing an article supported at said cutting station; combined guard and holding means carried by said frame and movable from an ineffective to an effective position to clamp the article against the frame at the cutting station and to act as a safety guard for the saw means while in operating position; a source of fluid under pressure; a first fluid motor means operably associated with the combined guard means for moving it between its said ineffective and effective positions; a second fluid motor means operably associated with said saw means for moving it between its said non-operating and operating positions; and a hydraulic circuit interconnecting said motor means and said



pressure source including a first pressure responsive valve operable responsive to a predetermined pressure applied to the guard motor means when in holding engagement with the article to be sawed, to connect the saw motor means to said pressure source for moving said saw means from non-operating to operating position only when said guard and holding means is applying clamping pressure to the article at the cutting station and a second pressure responsive valve operable responsive to a predetermined pressure applied to the saw motor means when holding said means in an extreme non-operating position, to connect the guard motor means to said pressure source for moving said guard and holding means from effective to ineffective position only when said saw means is in non-operating position.

2,637,354
CARCASS SPLITTER
Howard L. Davis, Payette, Idaho
Application September 13, 1948, Serial No. 48,990
3 Claims. (Cl. 143—63)



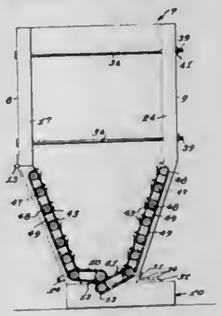
3. A carcass splitter comprising an elliptical housing, a back wall secured on said housing, a front cover detachably secured on said housing, a laterally extending shelf secured on the top of said housing, a motor mounted on said shelf adjacent one end of said housing, said back having an opening therein, a shaft of said motor extending through said opening, a flywheel keyed on said shaft in said housing, an eccentric pin mounted on said flywheel and extending laterally therefrom, a longitudinally extending guide mounted on said back wall at the opposite end from said flywheel, said guide including parallel guide rails a slide arm mounted in said guide rails, a pitman connecting said eccentric pin to said slide arm, an arcuate saw arm securely attached to said housing, a guide eye in the end of the arm remote from the housing, a pair of guide arms depending from said saw arm in a converging angle of inclination, a guide slot at the lower end of each of said guide arms, a saw blade slidably inserted in said guide eye and slots, and a driving connection between said slide arm and said saw.

2,637,355
HACK SAW BLADE
William R. Chapin, Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 22, 1950, Serial No. 197,042
7 Claims. (Cl. 143—133)



1. A hack saw having raker teeth and oppositely set cutting teeth having leading faces and back surfaces, the back surfaces meeting at angles of generally 55° to said leading faces, the laterally-outer corners of the set teeth being bevelled to define triangular surfaces meeting said leading faces in cutting edges of substantial lateral extent, inclined at an angle of substantially 45° to the plane of the saw body, said triangular surfaces meeting said leading faces at angles of generally 78°.

2,637,356
STAKE POINTER
Charles D. Skates and Lucky I. Skates, Roseburg, Oreg.
Application October 9, 1951, Serial No. 250,434
5 Claims. (Cl. 144—30)



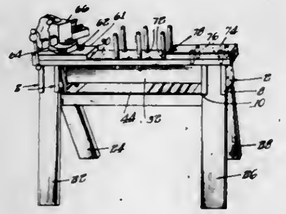
1. In a stake pointer, a casing having a pair of spaced walls, a base located at one end of said walls and extending therebetween, banks of rotary cutter rollers mounted on the laterally inward sides of said walls, said banks converging toward each other toward said one end, means for rotating said rollers together, the axes of said rollers extending crosswise of said walls, and parallel to each other and to the base, one of said walls being fixed to said base and the other wall being movable upon the base toward and away from said one wall, and means locking said movable wall in its adjusted position of movement.

2,637,357
HAND-GUIDED AND CHAIN-DRIVEN BARK-REMOVING TOOL
Louis W. Johnson and William George Saunders, Eugene, Oreg.; said Saunders assignor to said Johnson
Application August 30, 1951, Serial No. 244,366
4 Claims. (Cl. 144—208)



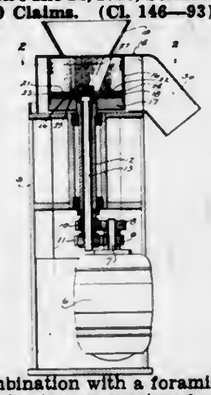
1. A log peeling tool comprising in combination an elongated handle, power transmission means attached to one end of the handle, a substantially wedge-shaped head adjustably attached to the opposite end of the handle and lockable in various angular positions in relation to said handle, traction means carried by the head and interconnected with said power transmission means for driving the head between the bark and the wood of a log being peeled.

2,637,358
SAW HORSE WITH A SHIFTABLE TOOL TRAY
Charles O. Larson, Sterling, Ill.
Application April 27, 1948, Serial No. 23,559
1 Claim. (Cl. 144—286)



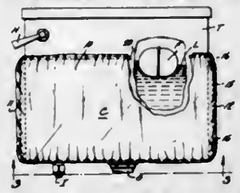
A saw horse comprising a relatively narrow, elongated top beam, a pair of downwardly diverging legs at each end portion of the beam, means for securing the tops of each pair of legs together and to the beam and including opposed pairs of inner and outer bracket plates having fasteners passing therethrough, pairs of relatively long transversely spaced links, each pivotally mounted at its upper end to a fastener on an inner bracket plate and depending downwardly between said pairs of legs for free swinging movement, and a tray of less length than the distance apart of said pairs of legs and of a width at least equal to the width of said top beam, the lower ends of said links being pivotally connected to the end walls of said tray for swingably supporting the tray from said bracket plates in a normally central position below said beam and within the exterior planes of the diverging legs, the spaced pivotal connections of the ends of said links permitting shifting movement of said tray outwardly to either side of the top beam for ready access to the contents of the tray while retaining said tray in a horizontal position.

2,637,359
MEAT CHOPPING METHOD AND APPARATUS UTILIZING A CENTRIFUGALLY POSITIONED KNIFE WITHIN A ROTATING AND FORAMINOUS BASKET
William H. Taylor, Homestead, Fla., assignor of one-half to Alvin W. Hughes, Milwaukee, Wis.
Application June 14, 1948, Serial No. 32,818
10 Claims. (Cl. 146—93)



1. The combination with a foraminous rotatable container having an apertured wall of circular cross section, of a complementary knife within the container and comprising a blade extending generally axially of the container and in shearing relation to the wall of the container and mounted for rotation co-axially with the container, means for rotating the container at a sufficiently high speed to extrude material through the openings thereof, and means for rotating the knife at a speed different from that of the container, the speed of the container relative to the knife being such as to shear off extruded portions of such material, both the knife and the material being radially yieldable to be impelled by the centrifugal force of rotation of the container and knife against the apertured wall of the container.

2,637,360
COVER FOR TOILET FLUSH TANKS
Paul E. Doebler, Monroe, Ohio
Application February 7, 1951, Serial No. 209,883
4 Claims. (Cl. 150—52)



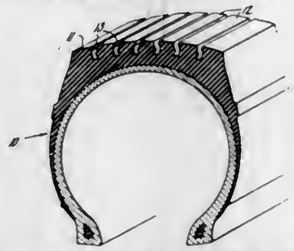
1. A cover for a toilet flush-tank formed of a continuous sheet of waterproof fabric adapted to extend around the exposed lateral vertical walls of the tank, seamed headers along the upper and lower edges of said cover, elastic tapes extending through said headers, said tapes being of shorter length than said cover whereby a ruffling effect is imparted to said cover to produce thereby an air space between the cover and the vertical walls of the tank, and means for anchoring the opposite ends of said elastic tapes onto the extremities of the lateral walls of the flush-tank at different levels thereof.

2,637,361
SELF-LOCKING SETSCREW
Charles E. Nagel, New York, N. Y.
Application June 25, 1951, Serial No. 233,325
3 Claims. (Cl. 151—21)



1. A self-locking set screw consisting of an externally threaded substantially cylindrical body having a substantially cylindrical counterbore at its outer end forming a relatively flexible uninterrupted annulus and a co-axial non-circular hole smaller than said counterbore extending from the bottom of said counterbore to receive a socket wrench inserted through said counterbore, at least a portion of the flexible uninterrupted annulus formed by the counterbore being offset beyond the normal periphery of the screw.

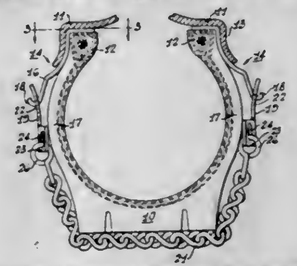
2,637,362
STONE-EJECTING TIRE TREAD
William F. R. Briscoe and Verne H. Berry, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 14, 1950, Serial No. 173,885
7 Claims. (Cl. 152—209)



5. In a pneumatic tire, a rubber tread having an anti-skid groove, one sidewall of such groove being gradually inclined inwardly from the surface of the tread to a point spaced from the said surface by a distance equal to from ½ to ¾ of the depth of the groove, and said sidewall returning outwardly below said point to provide an enlargement of the groove at the base portion thereof, the opposite sidewall of such groove also being gradually inclined inwardly from the surface of the tread to a point spaced from the said surface by a distance equal to approximately ¼ of the depth of the groove, and said sidewall being undercut below said last mentioned point, said undercut portion extending to the bottom of the groove.

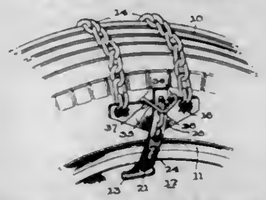
2,637,363
TIRE CHAIN CROSS-LINK AND ANCHOR ASSEMBLY
Alfred H. Perlman, Chicago, Ill., assignor to Fral Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application June 27, 1951, Serial No. 233,854
5 Claims. (Cl. 152—213)

1. For use in connection with a pneumatic tire held by inflation thereof to a straight side rim, said tire having beads continuous with side walls and a tread spanning said side walls: the improvement of a tire chain cross-link and anchor assembly comprising a tire chain anchor lying on each side of said tire and conforming to the contours of said rim and the bead of said tire and adapted to be held by inflation of the tire between said rim and said bead, comprising a metal strip having a portion bent to lie substantially along the inner periphery of the bead of said tire and between said bead and said rim, a second portion bent at substantially right angles to the first named portion and continuous therewith and following the contours of said rim and the side of the bead for at least a portion of the length thereof and terminating in a flat hook which is spaced from the side walls of said tire, and a cross-link



hanger having a tongue in hooking engagement with each of said tire chain anchors and having arms carrying cross-links spanning the tread of said tire, the tongue of said hanger being provided with a plurality of T-shaped slots for changing the position of hooking engagement of said cross-link hanger with said tire chain anchor in accordance with the size of said tire, the opening defined by each T-shaped slot providing for contact of said hanger tongue with said flat hook along the oppositely extending shoulders of said T-shaped slot, and the insertion of a tool adapted to rock on the free end of said hook to lift said cross-link hanger from engagement with said tire chain anchor.

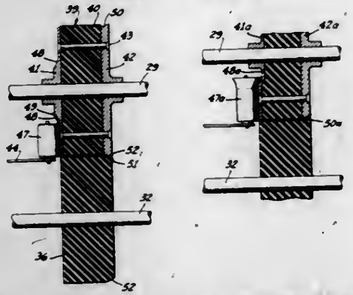
2,637,364
METAL STRAP TIRE CHAIN
Charles B. Woodworth, Binghamton, N. Y.
Application January 5, 1951, Serial No. 204,515
6 Claims. (Cl. 152—237)



1. An anti-skid device for a vehicle wheel having a tire, a rim and a hub, comprising in combination, traction means adapted to extend over the tread of the tire, a relatively stiff metal strap having one of its ends connected to one end of said means and being adapted to extend across the wheel rim on the hub side thereof, the opposite end section of said strap being of suitable width and thickness to facilitate passage through the wheel and having longitudinally spaced openings therethrough, a plate, the opposite end of said traction means being connected to one edge of said plate, a unitary lever hinged on and adjacent the opposite edge of said plate and adapted to be directly passed through a selected

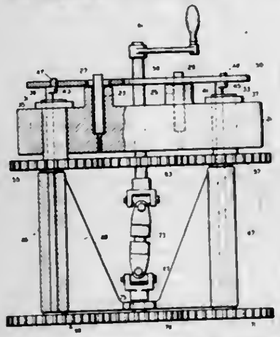
one of said strap openings and rotated toward the face of the plate for tightening the assembly on the wheel, and locking means carried by said plate and engageable over the lever to hold it in tightened position, said last mentioned means being positioned to receive the end of the strap when the lever is in an opening remote from the strap end.

2,637,365
WIRE FABRIC BENDING AND FEEDING APPARATUS
Raymond F. Stockton, Sunland, Calif., assignor to Ray F. Stockton Wire Products Co. Inc., Burbank, Calif., a corporation of California
Application November 20, 1950, Serial No. 196,644
3 Claims. (Cl. 153—28)



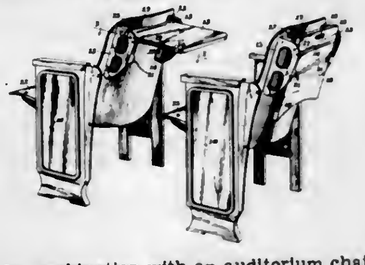
1. A wire fabric bending and feeding apparatus comprising a series of pairs of opposed rolls between which the fabric can be fed, one of said pairs of rolls consisting of a rubber roll and its opposed roll having a rubber center and metal plates flanking the rubber center, said plates having edges arranged in opposition to the rubber roll, one of said plates presenting an outer side face shaped in radial section to conform to a portion of the shape of the finished product, and a roll arranged in opposition to a portion of said side face to press a portion of the fabric against said face so as to be shaped thereby.

2,637,366
SPIRAL DRIVE
Walder B. Ashworth, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application July 29, 1947, Serial No. 764,344
15 Claims. (Cl. 153—73)



1. An apparatus for translating a body in continuous spiral rotary motion comprising a first means for translating said body in a first circular path; a second means for translating said body in a second circular path, each said circular path passing through the center of revolution of the other; means operatively connecting said first and second means and operative to effect continuous and simultaneous operation of said first and second means at different angular speeds of translation through said first and second paths to cause said body to partake of continuous spiral rotary motion; and means for preventing axial rotation of said body.

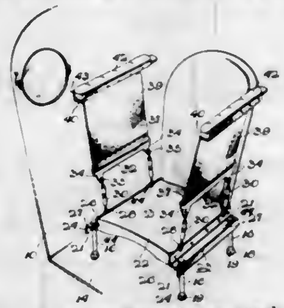
2,637,367
WRITING SHELF FOR CHAIRS
Chester J. Barecki, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application July 28, 1951, Serial No. 239,111
2 Claims. (Cl. 155—3)



2. In combination with an auditorium chair or the like having a forwardly-downwardly sloping back, a pair of vertically elongated brackets attached to the back of the chair and extending rearwardly therefrom; a horizontal tie-bar connecting said brackets and spaced rearwardly from the chair back; mutually inwardly extending abutments on said brackets above and forwardly of said tie-bar; studs extending mutually inwardly from the brackets between the tie-bar and said abutments; a shelf having in its opposite side edges grooves into which extend said studs, said shelf being thus movable on the studs between positions of use and non-use, and said shelf when in its non-use position depending between the brackets alongside the chair back so as to provide maximum space in the rear of the chair and being supported in such position by contact of the studs with the upper ends of said grooves; mutually inwardly extending lugs on the brackets below the tie-bar, against which lugs the depending shelf may rest so that the shelf when in its non-use position is supported in substantial parallelism with the sloping back of the chair; and said shelf when in its use position extending rearwardly from the chair back and having its forward edge abutting the undersides of said abutments and being supported rearwardly thereof on said tie-bar.

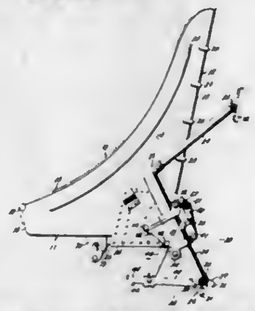
2,637,368
SHOCK ABSORBING MEANS FOR AIRCRAFT SEATS
Robert B. Cotton, Lansdowne, Pa., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware
Application April 30, 1948, Serial No. 24,269
4 Claims. (Cl. 155—9)

1. An aircraft safety chair structure comprising fixed arm rests, webs of flexible non-resilient material permanently elongatable beyond their normal length when a crash occurs extending downwardly from the arm rests to form the sides of the chair, a seat portion connected to the depended ends of each of the said webs, crash frangible means normally supporting said seat above the floor of the aircraft, the weight of said seat and an occupant thereof being suspended



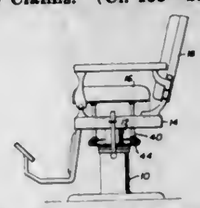
solely by said webs following a crash, said seat supporting means including guide means substantially perpendicular with respect to the floor of the aircraft operatively associated with the seat portion for guiding the seat when said webs are elongated by forces in a substantially perpendicular direction from the line of thrust of the aircraft resulting from a crash and failure of said frangible seat support means.

2,637,369
ADJUSTABLE SEAT
Charles W. Demarest, Culver City, and John T. Willoughby, Manhattan Beach, Calif., assignors, by mesne assignments, to North American Aviation, Inc., Los Angeles, Calif., a corporation of Delaware
Application February 2, 1950, Serial No. 142,056
6 Claims. (Cl. 155—14)



6. An adjustable seat for an operator of a vehicle having an operator's compartment defined in part by a substantially vertical wall extending transversely of said vehicle, comprising: a pair of elongate tubular track elements; means spacedly fixed to the lower extremity of said wall for mounting the lower ends of said track elements to said wall; an elongate support element rigidly interconnecting the upper end of each track element and said wall at a position spaced upwardly from said mounting means, said support element rigidly holding the upper ends of said track elements forwardly spaced from said wall whereby said track elements extend in parallelism upwardly and forwardly of said wall; a chair-like member including a seat element and a back rest; carriage means fixed to opposite sides of said member and each sleeving a track element for mounting said member intermediate said track elements for movement in a path substantially parallel to said track elements whereby the position of said member within said compartment can be varied; detent means carried by said carriage means and engageable with cooperating means carried by said track elements for holding said carriage means in preselected positions of adjustment on said track elements whereby the relative position of said member within said compartment may be preselectedly fixed; a torque transmitting member; pivotally mounted link means interconnecting the lower portion of said track elements and said carriage mounting said torque transmitting member transversely of said seat element for movement in an arcuate path; a pair of torsion springs sleeving said torque transmitting member, the inner ends of said springs being fixed to said torque transmitting member, the opposite ends thereof engaged with said link means and applying reaction forces thereto in a direction to normally urge said torque transmitting member upwardly; said link means comprising rigid arms carried at opposite ends of said torque transmitting member; means pivotally connecting the free end of each arm to a carriage means whereby said carriage means are urged upwardly along said track elements; and means for moving said detent means out of engagement with the means carried by the track elements.

2,637,370
BARBER CHAIR
Nathan Peter Vizza, Michigan City, Ind.
Application November 19, 1951, Serial No. 257,009
9 Claims. (Cl. 155—25)

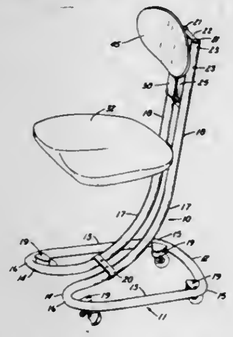


1. In a barber chair having an extensible standard, a chair frame rigidly mounted on said standard, and a seat detachably mounted in said frame, a seat adjusting device comprising a pair of side bars rigidly attached to said chair frame, a pair of rod guides in each of said side bars, extension rods slidably mounted in said rod guides, said seat being mounted on the top of said rods, a shoe connecting the bottom ends of each pair of extension rods, a base collar rotatably mounted on said standard, said collar being engageable with said shoes to retain said seat spaced above said frame.

2,637,371
CHAIR HAVING RESILIENT FRAME
Harold S. Boutin, Toledo, Ohio
Application July 13, 1950, Serial No. 173,568
4 Claims. (Cl. 155—50)

1. A chair comprising, in combination, a frame having a horizontal base section lying generally in a single plane, said base section consisting in

a rear cross portion and side portions joined to said cross portion and extending generally forwardly and being laterally spaced from each other, said side portions being turned inwardly toward each other at the front and then generally at the center being turned backward generally parallel to each other, and a support section consisting in portions joined to the backward extending parts of said side portions of said



base section and sweeping rearwardly and upwardly in a curve of relatively large radius and culminating in substantially parallel, substantially straight portions inclined rearwardly to the plane of said base section at an angle of less than 90 degrees; a generally horizontal, forwardly extending seat; and a seat supporting frame underlying said seat and connected to said support section at the rear of said seat.

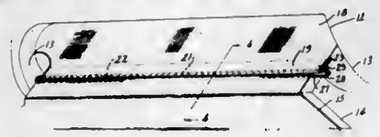
2,637,372
CHILD'S PORTABLE CHAIR
Nicholas C. Angelo, Waco, Tex.
Application July 7, 1949, Serial No. 103,499
1 Claim. (Cl. 155—79)



In a child's portable chair especially designed for suspension upon the considerably higher back of a much larger chair, a one-piece frame comprising a pair of upright suspension arms interconnected by an integral U-shaped seat structure, said seat structure comprising side legs that are bent forwardly from said arms with a substantial upward inclination and that have sufficient resilience to approach the horizontal when the seat is occupied by a child.

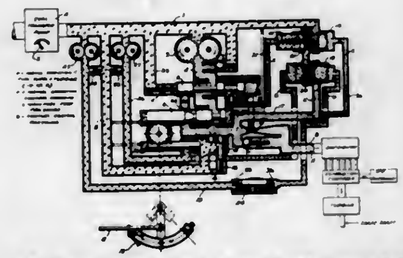
2,637,373
COMBINED SEAT AND COVER
John R. Willetts, Milwaukee, Wis., assignor to Artcraft Manufacturing Co., Cambridge, Mass., a corporation of Massachusetts
Application October 29, 1949, Serial No. 124,297
6 Claims. (Cl. 155—182)

2. A seat having a frame with a frame cover, and a hemmed seat cover, in combination with a seat cover fastener comprising a shank engaged in the hem of the seat cover and a hook



substantially parallel to the shank and engaged between the frame cover and the frame.

2,637,374
AUTOMATIC FUEL CONTROL FOR GAS TURBINE ENGINES
John F. Campbell, Euclid, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application July 17, 1946, Serial No. 684,212
15 Claims. (Cl. 158—36.4)

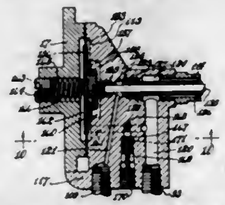


1. Fuel delivering means for a gas turbine engine comprising a fuel delivery conduit, a by-pass conduit bleeding said fuel delivering conduit and by-passing said engine, means for varying the rate of flow of fuel through said by-pass conduit to effect desired changes in engine speed including a valve in said by-pass conduit positionable to regulate the flow of fuel therethrough; and means for automatically maintaining the rate of flow of fuel through said fuel delivery conduit above a predetermined minimum, said last-named means including a second valve in said by-pass conduit, means to close said second valve when the fuel flow in said delivery conduit falls below a predetermined minimum, closing of said second valve completely closing said by-pass conduit.

2,637,375
FUEL SUPPLY CONTROL FOR AIR-ATOMIZING OIL BURNERS
Harry F. Tapp, Longmeadow, and Richard M. Cochrane, West Springfield, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Original application September 2, 1950, Serial No. 182,952. Divided and this application September 19, 1951, Serial No. 247,272
2 Claims. (Cl. 158—42.2)

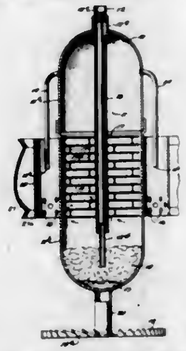
1. In an air-atomizing oil burner, of the type wherein oil and primary air are respectively supplied through inner and outer coaxial pipes to an air-atomizing nozzle, fixed to the outer ends of said pipes and located in one end of an open-ended draft tube through which secondary air is supplied to mix with the atomized oil emitted

from said nozzle and wherein the flow of oil to said nozzle is controlled by a valve located in the inner pipe near the nozzle and having a rod extending through such pipe and fixed to a diaphragm actuated in one direction by pressure of the primary air and in the other direction by a spring; a closure for the other end of said tube having a recess in its inner face, a member located within said tube having a recess in its outer face and to which member the inner ends of said pipes are connected, said closure and member being fixed together and clamping between them the marginal portion of said diaphragm, the inner portion of the diaphragm separating said re-



cesses one from another, said spring being located in the recess in said closure, said member having a supply passage for primary air communicating with the inner end of said outer pipe and with the recess in said member and an oil supply passage communicating with the inner end of said inner pipe, and a spring-closed relief valve adapted to open on excess pressure of the primary air, said relief valve and its spring being mounted in said member, the latter having a passage connecting said air-supply passage to one side of said relief valve and a vent passage connecting the other side of said relief valve to the space within said draft tube.

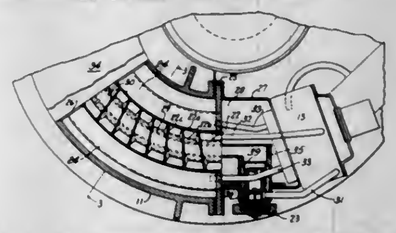
2,637,376
DOWNDRAFT BURNER
John E. McCutchen, Wichita, Kans., assignor to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas
Application June 19, 1951, Serial No. 232,253
5 Claims. (Cl. 158—53)



1. A burner for liquid fuels adapted to burn downwardly in a down draft tube, comprising an elongated casing having closed ends and providing interiorly a vaporization chamber, wicking material filling the bottom end portion of said chamber, a fuel supply pipe terminating within said wicking material to supply liquid fuel to the lower portion of said chamber for vaporization, a plurality of baffle plates extending across said vaporization chamber above said wicking material, said baffle plates having staggered openings therethrough to cause the vaporized fuel to pass upwardly in circuitous paths, a plurality of outlet pipes communicating with the upper portion of said chamber above said baffle plates and extending downwardly along the outer surface of said casing at a spaced distance therefrom, said outlet pipes terminating in open ends above the lower end of said casing so as to direct flame jets downwardly into the region around the bottom of said casing to heat the same and thereby vaporize said liquid fuel, and open ended flame tubes receiving the open end of said outlet pipes and extending therebelow to control the flow of air around the base of said flame jets.

5. A burner for liquid fuels adapted to burn downwardly in a downdraft tube, comprising an elongated casing having closed ends and providing interiorly a vaporizing chamber, a fuel pipe terminating within said chamber for supplying liquid fuel to the lower portion thereof for vaporization, a plurality of outlet pipes communicating with the upper portion of said chamber and extending downwardly in spaced relation along the outer surface of said casing, each of said outlet pipes terminating in an open end above the lower end of said casing arranged to direct a flame jet downwardly into the region about the bottom of said casing, and a separate open-ended tube receiving the open end of each of said outlet pipes and extending therebelow to control the flow of air to the base of said flame jet, and interposed in said vaporization chamber between the lower portion thereof and the point of communication of said outlet pipes, a plurality of baffle plates extending across said chamber having staggered openings therethrough to promote uniform pressure in the upper portion of said vaporization chamber, the lower portion of said chamber being packed with wicking material to a level above the lower end of said fuel pipe.

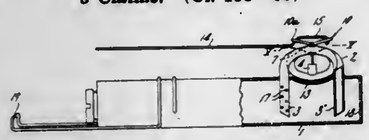
2,637,377
LIQUID FUEL BURNING HEATER AND OPERATING SYSTEM THEREFOR
Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., a corporation of Illinois
Application February 1, 1946, Serial No. 644,694
10 Claims. (Cl. 158—53)



2. A fuel burner assembly for low pressure liquid fuel burning apparatus including in combination, a plurality of main burner means each having a passage terminating in a port, pilot burner means having a passage extending substantially along the length of the aforesaid main burner passages in heating relation therewith and terminating in a pilot burner port in igniting relation with all of said main burner ports, an igniter unit including an electric igniting element and an air inlet port adjacent said igniting element and having a passage extending substantially along the length of said pilot burner passage in heating relation therewith and terminat-

ing in igniting relation with said pilot burner port, means for introducing air under pressure to said main and to said pilot burner passages and to said air inlet port of said igniter unit, means for supplying liquid fuel to said igniter unit adjacent the igniting element thereof to develop a flame in said igniter unit passage for heating said pilot burner passage, means for supplying liquid fuel to the heated pilot burner passage to produce a combustible air-and-fuel mixture in said pilot burner passage, said mixture being ignited at said pilot burner port by said igniter flame to develop a pilot flame at said pilot burner port and within said pilot burner passage for heating said main burner passages, and a temperature responsive fuel selector for selectively supplying liquid fuel to said main burner passages rearwardly of the ports thereof whereby said fuel passes over substantially the length of said main burner passages.

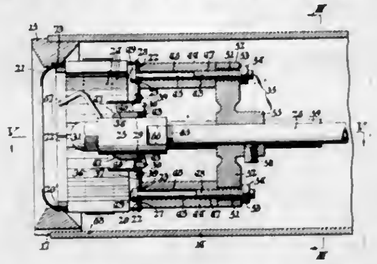
2,637,378
BURNER STRUCTURE
Josef Borde, Zurich, Switzerland
Application July 17, 1950, Serial No. 174,331
In Switzerland July 20, 1949
8 Claims. (Cl. 158—63)



1. A burner structure for gasifiable fuel comprising a housing adapted to contain said fuel, a tubular body seated on said housing, a nozzle arranged on said tubular body, said tubular body terminating in two end portions extending into said housing and connected with the latter whereby the interior of said housing communicates through said tubular body with said nozzle, needle means in operative connection with and movable relatively to said nozzle, a plate member supporting said needle means and guiding the same, said plate member being provided with a plurality of openings for diverting fuel gas emanating from said nozzle, and an end disk affixed to said needle means above said plate member and forming baffle means against which said fuel gas may be impinged for intimate mixture with air, whereby a combustible air-fuel mixture for ignition is constituted, said end disk including arms, said arms being rotatable to actuate said needle means and to move the same through said plate member and relatively to said nozzle.

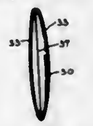
2,637,379
GUN TYPE OIL BURNER WITH COMBUSTION HEAD STRUCTURE
James M. Carroll, Philadelphia, and Thomas W. Murphy, Narberth, Pa., assignors to The Monarch Manufacturing Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application August 27, 1949, Serial No. 112,724
14 Claims. (Cl. 158—76)

1. A fuel burner comprising a blast tube, fuel supply means, a fuel burning nozzle in said blast tube, means for supplying combustion supporting air thereto, an air turbulator in the form of a tube disposed longitudinally within said blast tube carrying a plurality of circumferentially spaced longitudinally disposed blades constructed to direct the air inwardly with continuous swirling motion, a closure in the form of a plate attached across one end of said turbulator tube, a plurality of angled vanes annularly arranged in openings on said closure plate to whirl the air passing therethrough, an air director tube contiguously surrounding the outer edges of said angled vanes and extending forwardly of said closure plate into said turbulator tube, said air director tube being substantially coaxial with said turbulator tube, and an air guide sleeve disposed coaxially within said air director tube, said air



guide sleeve having an air guiding surface in contact near its outer end with the inner edges of said angled vanes and extending into said turbulator tube, whereby the air director tube and air guide sleeve coact to define a substantially axially directed annular passage disposed forwardly of said angled vanes in said turbulator tube for passage of air whirled by said angled vanes.

2,637,380
WINDOW CORNICE
Robert W. Hyde, Cincinnati, Ohio, assignor to The Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application January 11, 1949, Serial No. 70,357
5 Claims. (Cl. 160—38)

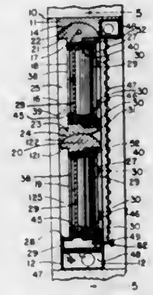


1. A cornice for attachment to a window comprising; a beam formed of flexible sheet material having a pair of walls joined together along opposite longitudinal edges, said walls in cross section being ballooned outwardly in opposite directions to provide spacing between the walls of said beam longitudinally thereof to stiffen the same transversely of its load supporting axis, and a panel disposed within said beam having a width dimension less than the beam to control the ballooning of said spaced walls.

2,637,381
JACKKNIFE WINDOW
William A. Bowman, Baltimore, Md.
Application May 7, 1949, Serial No. 92,019
4 Claims. (Cl. 160—40)

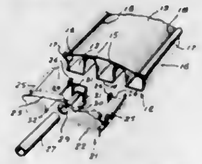
1. In combination, a window casement comprising side walls, a bottom member, a top member having an inner concave surface, a frame composed of an upper and lower sash, the upper sash including an upper rail of outwardly arcuate form being received in and cooperating with the concave surface of the top member to allow rotation of the upper sash in the top member, the upper sash including a lower rail having an inner concave surface and an adjacent convex surface

and the lower sash including an upper rail of outwardly arcuate form being received in the concave surface of the upper sash rail when the sashes are in closed position and cooperating with the convex surface of the upper rail to allow rotation between the sashes to open the latter, frames carried by the sashes for mounting glass panes therein, pivot means between the sashes and guide means for the lower sash cooperating with the aforesaid side walls, whereby said sashes



protrude outwardly of the casement while rotating about the pivot means when the lower sash is moved upwardly along the guide means, said guide means comprising a lug carried by and protruding laterally from each vertical side of the lower sash and frictionally contacting the aforesaid side walls to maintain the sashes in open position and means for withdrawing said lugs from contact with the side walls to permit removal of the frame from the casement.

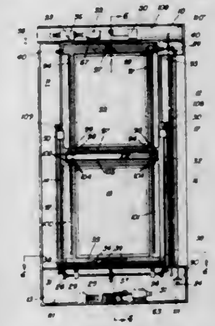
2,637,382
VENETIAN BLIND BAR ORGANIZATION AND FITTING
Harry Nelson, McKeesport, Pa., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application November 12, 1952, Serial No. 319,877
13 Claims. (Cl. 160—178)



1. In the art of Venetian blinds, a hollow metal bar of uniform cross section suitable for a tilt bar or bottom bar, and an end fitting for closing the end of said bar, said fitting comprising a generally flat plate having an outline generally similar to the cross section of said bar and having a hole therein and a projecting prong directed towards the hole to enter within and retain a hollow gudgeon pin passed through the hole.

2,637,383
AUTOMATICALLY OPERATED JACKKNIFE WINDOW
William A. Bowman, Baltimore, Md.
Application July 10, 1950, Serial No. 172,955
3 Claims. (Cl. 160—188)

1. In combination with a window frame, a pair of vertically aligned sashes, hinging means between said sashes along their horizontal meeting edges, hinging means between the upper sash and the frame, means for initiating opening movement of the sashes out of vertical alignment consisting of a vertical screw carried by the frame, a roller carried by said screw and pressing against the vertical edge of the upper sash, means for rotating the screw, means cooperating with the initiating means consisting of a slidable element



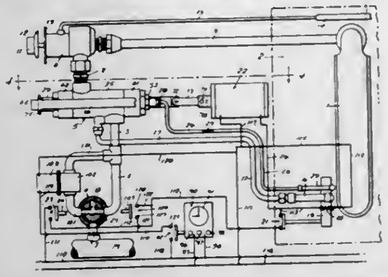
carried by the lower sash, said element having a forked end engageable with the root of the threads of the said screw, whereby said element will move upwardly and downwardly with the rotation of the screw, forcing outward and inward movements of the sashes about their common hinging means, and means for controlling the engagement and disengagement of said element with said screw.

2,637,384
DRAPERY HOLDER AND LOOPER
Harold McCabe, Somerville, Mass.
Application November 20, 1951, Serial No. 257,298
3 Claims. (Cl. 160—349)



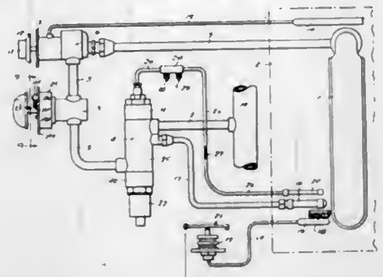
1. A device for facilitating the draping of curtains formed as an effectively integral structure of molded material comprising an upper portion formed with spaced front and rear resilient legs extending downwardly and grippingly engageable over a curtain rod by a movement of approach from above, the upper portion at the front being extended downward as an open centered frame to a point below said rear leg, at least the major segment of the open area within the frame being disposed out of front to rear alignment with said rear leg to provide an unobstructed opening of substantial size to pass a gathered together portion of a curtain to facilitate hanging and draping the curtain from opposite sides of the frame, ing the curtain material from opposite sides of the frame.

2,637,385
AUTOMATIC IGNITION AND CONTROL MECHANISM FOR OVEN BURNERS
Charles M. Mayer, Mansfield, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio
Application December 10, 1951, Serial No. 260,901
13 Claims. (Cl. 161—9)



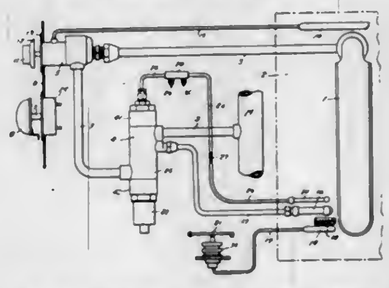
1. In an automatic ignition and control apparatus of the character described, the combination of a main burner, a pilot burner operative to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a conduit through which gaseous fuel is supplied to said main burner, a manually operable main control valve by which the supply of fuel to said main burner and said pilot burner is primarily controlled, a safety control valve mechanism interposed in said conduit between said main control valve and said main burner, a secondary conduit extending between said safety control valve mechanism and said pilot burner through which gaseous fuel is supplied to said pilot burner, said safety control valve mechanism being operative to control the supply of fuel to said main burner and said pilot burner after the fuel leaves said main control valve, a solenoid operatively connected to said safety control valve mechanism, said solenoid being operative upon energization to set said safety control valve mechanism in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and upon subsequent de-energization to set said safety control valve mechanism in condition to also supply fuel to said main burner, a normally closed switch operative to control the energization of said solenoid and said electric ignition element, a thermostatic element adapted to be heated by said pilot burner and operative to maintain said switch open when heated and closed when cool, a by-pass around a portion of said conduit, said manually operable main control valve being located at a junction of said conduit and said by-pass and having one closed position and two open positions and operative when in one open position to direct fuel straight through said conduit to said safety control valve mechanism and to said burners and when in the other open position to direct fuel through said by-pass to said safety control valve mechanism and said burner and when in closed position to completely shut off the flow of fuel to said burner, a normally closed valve in said by-pass, a second solenoid operative when energized to maintain said normally closed valve open, a normally open time control switch operative when closed to effect energization of said electric ignition element, said solenoid and said second solenoid, and a time control mechanism operative to close and open said time control switch at predetermined set times.

2,637,386
AUTOMATIC IGNITION AND CONTROL MECHANISM FOR OVEN BURNERS
Richard L. Perl, Galion, and John M. Hoff, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio
Application December 10, 1951, Serial No. 260,902
10 Claims. (Cl. 161—9)



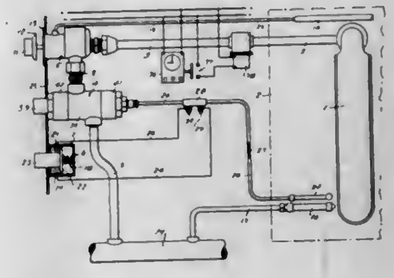
1. In an automatic ignition and control apparatus of the character described the combination of a main burner, a pilot burner operative to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a gaseous fuel supply manifold, a main conduit through which fuel is supplied to said main burner from said manifold, a manually operable control valve interposed in said conduit between said main burner and said manifold, a safety control valve mechanism operative to cut off the supply of fuel to said main burner and said pilot burner interposed in said conduit between said manually operable control valve and said manifold, a secondary conduit extending between said safety control valve mechanism and said pilot burner through which fuel is supplied to said pilot burner, a solenoid operatively connected to said safety control valve mechanism, said solenoid being operative upon energization to first set said safety control valve mechanism in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and then upon subsequent de-energization to set said safety control valve mechanism in condition to also supply fuel to said main burner, an electromagnet associated with said safety control valve mechanism and operative when energized to maintain said safety control valve in said last set condition, a thermocouple adapted to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said magnet is energized by said thermocouple when said thermocouple is heated, an interrupter switch interposed in said circuit and operative to open and close said circuit and thereby control the energization of said electromagnet, operative connections between said manually operable control valve and said interrupter switch through which said interrupter switch is closed and opened by the opening and closing of the manually operable control valve, a normally open master switch associated with said manually operable control valve, operative connections between said manually operable control valve and said master switch through which said master switch is closed by the opening of said main control valve and is opened by the closing of said main control valve, said master switch being operative when closed to energize said solenoid and said electric ignition element, a normally closed switch disposed in series with said master switch which is operative when opened to de-energize said solenoid and said electric ignition element, a thermostatic element adapted to be heated by said pilot burner and operative when heated to maintain said normally closed switch open and when cool to maintain said normally closed switch closed, and means operative to maintain said thermocouple circuit closed while said manually operable control valve is closed.

2,637,387
AUTOMATIC IGNITION AND CONTROL MECHANISM FOR OVEN BURNERS
Charles M. Mayer and John M. Hoff, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio
Application December 10, 1951, Serial No. 260,903
12 Claims. (Cl. 161—9)



1. In an automatic ignition and control apparatus of the character described the combination of a main burner, a pilot burner operative to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a gaseous fuel supply manifold, a main conduit through which fuel is supplied to said main burner from said manifold, a safety control valve mechanism operative to cut off the supply of fuel to said main burner and said pilot burner interposed in said conduit between said main burner and said manifold, a secondary conduit extending between said safety control valve mechanism and said pilot burner through which fuel is supplied to said pilot burner, a solenoid operatively connected to said safety control valve mechanism, said solenoid being operative upon energization to first set said safety control valve mechanism in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and upon subsequent de-energization to set said safety control valve mechanism in condition to also supply fuel to said main burner, an electromagnet associated with said safety control valve mechanism and operative when energized to maintain said safety control valve in said last set condition, a thermocouple adapted to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said magnet is energized by said thermocouple when said thermocouple is heated, an interrupter switch interposed in said circuit and operative to open and close said circuit and thereby control the energization of said electromagnet, a normally open master switch which is operative when closed to energize said solenoid and said electric ignition element, a normally closed switch disposed in series with said master switch which is operative when opened to de-energize said solenoid and said electric ignition element, and a thermostatic element adapted to be heated by said pilot burner and operative when heated to maintain said normally closed switch open and when cool to maintain said normally closed switch closed.

2,637,388
CONTROL MECHANISM FOR OVEN BURNERS
Charles M. Mayer and John M. Hoff, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio
Application December 10, 1951, Serial No. 260,904
1 Claim. (Cl. 161—9)



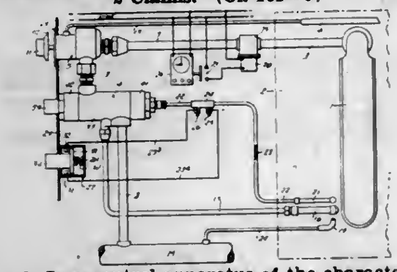
In a control apparatus for a gaseous fuel oven burner the combination of a fuel supply manifold, a main burner, a fuel supply conduit through which fuel is supplied to said burner from said manifold, a constantly burning pilot burner operative to ignite said main burner, a normally closed valve interposed in said conduit between said manifold and said main burner, means yieldingly biasing said valve to closed position, means by which said valve is manually moved to open position, a thermocouple mounted ative when energized to maintain said valve in open position after said valve has been manually moved to open position, a thermocouple mounted in position to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said electromagnet is energized by said thermocouple when said thermocouple is heated, and a normally closed switch in said electric circuit, said switch being operative when opened to break said circuit and de-energize said electromagnet, a normally open valve interposed in said conduit between said normally closed valve and said main burner, a solenoid operative when energized to maintain said normally open valve closed, a normally open switch by which the energization of said solenoid is controlled, a time control mechanism adapted to be manually set for either manual or automatic control of said main burner, and operative connections between said time control mechanism and said normally open switch through which said normally open switch is opened and closed by said time control mechanism, said time control mechanism being operative upon the setting thereof for automatic control of said main burner to close said normally open switch and at a predetermined later time to open said normally open switch and at a still later time to close said normally open switch and to again open said normally open switch upon the resetting of said time control mechanism for manual control of said main burner.

2,637,389

CONTROL MECHANISM FOR OVEN BURNERS

Charles M. Mayer and John M. Hoff, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio

Application December 10, 1951, Serial No. 260,905
2 Claims. (Cl. 161—9)



1. In a control apparatus of the character described the combination of a chamber, a fuel supply manifold, a gaseous fuel main burner mounted in said chamber, a fuel supply conduit through which gaseous fuel is supplied to said main burner from said manifold, a relatively large oven pilot burner disposed in said chamber closely adjacent said main burner and operative when ignited to ignite said main burner when fuel is supplied to said main burner, a constantly burning relatively small auxiliary pilot burner disposed in said chamber closely adjacent said oven pilot burner and operative to ignite said oven pilot burner when fuel is supplied to said oven pilot burner, a safety control unit interposed in said conduit between said manifold and said main burner, a secondary conduit through which fuel is supplied to said oven pilot burner, a control valve operative when closed to cut off the supply of fuel to said main burner and said oven pilot burner and when open to admit fuel to said main burner and said oven pilot burner incorporated in said safety control unit, means yieldingly biasing said control valve to closed position, means by which said control valve is manually moved to open position, an electromagnet operative when energized to maintain said control valve in open position after said control valve has been manually moved to open position incorporated in said safety control unit, a thermocouple mounted in said chamber in position to be heated by said relatively large oven pilot burner, an electric circuit between said thermocouple and said electromagnet through which said electromagnet is energized by said thermocouple when said thermocouple is heated, and a normally closed switch in said electric circuit, said switch being operative when opened to break said circuit and de-energize said electromagnet.

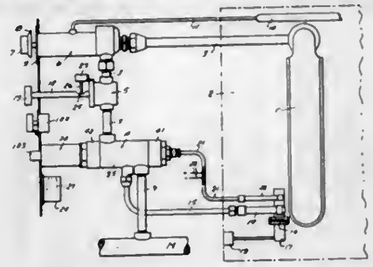
2,637,390

AUTOMATIC IGNITION AND CONTROL MECHANISM FOR OVEN BURNERS

Richard L. Perl, Galion, and John M. Hoff, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio

Application December 10, 1951, Serial No. 260,906
20 Claims. (Cl. 161—9)

1. In an automatic ignition and control apparatus of the character described the combination of a main burner, a pilot burner operative to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a gaseous fuel supply manifold, a main conduit through which fuel is supplied to said main burner from said manifold, a safety control unit operative to cut off the supply of fuel to said main burner and said pilot burner interposed in said conduit between said main burner and said manifold, a manually operable shut off valve interposed in said conduit between said safety control unit and said main burner, a branch conduit extending between said safety control unit and said pilot burner through which fuel is supplied to said pilot burner, a solenoid operatively associated with said safety control unit, said solenoid being operative upon energization to first set said safety control unit in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and upon subsequent de-energization to set said safety control unit in condition to also supply fuel to said main burner, an electromagnet associated with said safety control unit and operative when energized to maintain



said safety control valve in said last set condition, a thermocouple adapted to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said magnet is energized by said thermocouple when said thermocouple is heated, an interrupter switch interposed in said circuit and operative to open and close said circuit and thereby control the energization of said electromagnet, a normally open master switch which is operative when closed to effect the energization of said solenoid and said electric ignition element, a normally closed switch disposed in series with said master switch which is operative when opened to effect de-energization of said solenoid and said electric ignition element, and a thermostatic element adapted to be heated by said pilot burner and operative when heated to maintain said normally closed switch open and when cool to maintain said normally closed switch closed.

2,637,391

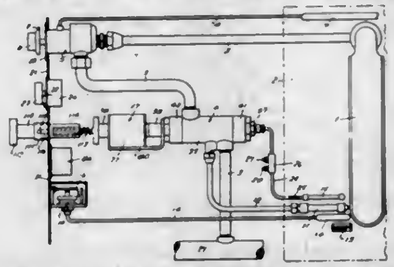
AUTOMATIC IGNITION AND CONTROL MECHANISM FOR OVEN BURNERS

Richard L. Perl, Galion, and John M. Hoff, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio

Application February 1, 1952, Serial No. 269,356
16 Claims. (Cl. 161—9)

1. In an automatic ignition and control apparatus of the character described the combination of a main burner, a pilot burner operative to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a gaseous fuel supply manifold, a main conduit through which fuel is supplied to said main burner from said manifold, a safety control unit operative to cut off the supply of fuel to said main burner and said pilot burner interposed in said conduit between said main burner and said manifold, a branch conduit extending between said safety control unit and said pilot burner through which fuel is supplied to said pilot burner, a solenoid operatively associated with said safety control unit, said solenoid being operative upon energization to first set said safety control unit in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and upon subsequent de-energization to set said safety control unit in condition to also supply fuel to said main burner, an electromagnet associated with said safety control unit and operative when energized to maintain said safety control valve in said last set condition, a thermocouple adapted to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said magnet is energized by said thermocouple when said thermo-

couple is heated, an interrupter switch interposed in said circuit and operative to open and close said circuit and thereby control the energization of said electromagnet, a normally open master switch which is operative when closed to effect the energization of said solenoid and said electric ignition element, a normally closed switch disposed in series with said master switch which is operative when opened to effect de-energization of said solenoid and said electric ignition element, a thermostatic element adapted to be heated by said pilot burner and operative when heated to maintain said normally closed switch open and when cool to maintain said normally closed switch closed, and manually actuable means by which said safety control unit is set in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner.

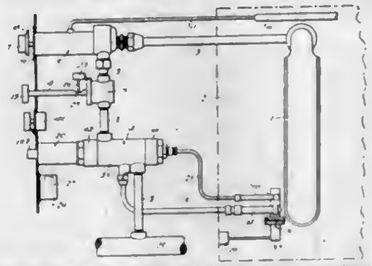


2,637,392

OVEN BURNER CONTROL MECHANISM

Charles M. Mayer, Mansfield, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio

Application May 5, 1952, Serial No. 286,194
14 Claims. (Cl. 161—9)



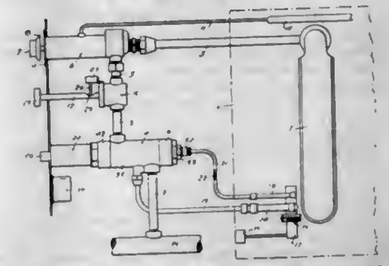
1. In an automatic ignition and control apparatus of the character described the combination of a main burner, a pilot burner operative to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a gaseous fuel supply manifold, a main conduit through which fuel is supplied to said main burner from said manifold, a safety control unit operative to cut off the supply of fuel to said main burner and said pilot burner interposed in said conduit between said main burner and said manifold, a manually operable shut off valve interposed in said conduit between said safety control unit and said main burner, a branch conduit extending between said safety control unit and said pilot burner through which fuel is supplied to said pilot burner, a solenoid operatively associated with said safety control unit, said solenoid being operative upon energization to first set said safety control unit in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and upon subsequent deenergization to set said safety control unit in condition to also supply fuel to said main burner, an electromagnet associated with said safety control unit and operative when energized to maintain said safety control valve in said last set condition, a thermocouple adapted to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said magnet is energized by said thermocouple when said thermocouple is heated, a normally closed interrupter switch interposed in said circuit between said thermocouple and said electromagnet in parallel with said electromagnet, said interrupter switch being operative when closed to short out said electromagnet and thereby control the energization of said electromagnet, a normally open master switch which is operative when closed to effect the energization of said solenoid and said electric ignition element, a normally closed switch disposed in series with said master switch which is operative when opened to effect deenergization of said solenoid and said electric ignition element, and a thermostatic element adapted to be heated by said pilot burner and operative when heated to maintain said normally closed switch open and when cool to maintain said normally closed switch closed.

2,637,393

AUTOMATIC IGNITION AND CONTROL MECHANISM FOR GASEOUS FUEL BURNERS

Charles M. Mayer, Mansfield, Richard L. Perl, Galion, and Elmer L. Warner, Crestline, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio

Application June 13, 1952, Serial No. 293,282
50 Claims. (Cl. 161—9)



1. In an automatic ignition and control apparatus of the character described the combina-

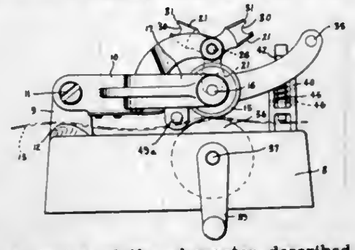
to ignite said main burner, an electric ignition element operative when energized to ignite said pilot burner, a gaseous fuel supply manifold, a main conduit through which fuel is supplied to said main burner from said manifold, a safety control unit operative to cut off the supply of fuel to said main burner and said pilot burner interposed in said conduit between said main burner and said manifold, a manually operable shut off valve interposed in said conduit between said safety control unit and said main burner, a branch conduit extending between said safety control unit and said pilot burner through which fuel is supplied to said pilot burner, a solenoid operatively associated with said safety control unit, said solenoid being operative upon energization to first set said safety control unit in condition to supply fuel to said pilot burner while cutting off the supply of fuel to said main burner and upon subsequent deenergization to set said safety control unit in condition to also supply fuel to said main burner, an electromagnet associated with said safety control unit and operative when energized to maintain said safety control unit in said last set condition, a thermocouple adapted to be heated by said pilot burner, an electric circuit between said thermocouple and said electromagnet through which said magnet is energized by said thermocouple when said thermocouple is heated, a manually operable normally open master switch, a normally closed supplemental master switch disposed in series with said master switch, said master switch and said supplemental master switch being operative when both are closed to effect the energization of said solenoid and said electric ignition element, a normally closed switch means disposed in series with said master switch which is operative when opened to effect deenergization of said solenoid and said electric ignition element, and a thermostatic element adapted to be heated by said pilot burner and operative when heated to maintain said normally closed switch means open and when cool to maintain said normally closed switch means closed, a transformer having a primary winding and a secondary winding, said secondary winding being connected into said thermocouple circuit, said transformer being operative when energized to superimpose an alternating current upon the thermocouple current of sufficient voltage to blanket out the thermocouple current and thereby de-energize said electromagnet, said master switch and said supplemental master switch each being operative when open to effect the energization of said transformer, and a time control mechanism operative to open and close said supplemental master switch at predetermined set times.

2,637,394
SHEET CUTTING MACHINE
Mathias J. Fey, Davenport, Iowa, assignor to Nichols Wire and Steel Company, Davenport, Iowa, a corporation of Iowa
Application July 16, 1947, Serial No. 761,387
8 Claims. (Cl. 164—49)



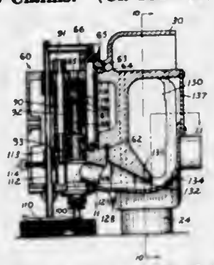
1. A machine for close tolerance cutting of sheets from a strip of material comprising, rail means for supporting said strip, cutting means positioned at one end of said rail means, a stop mechanism positioned at the other end of said rail means, and a feeding mechanism for feeding said strip past said cutting means and along said rail means, said rail means including a pair of side rails for supporting the edges of the strip on the under side thereof and a center rail positioned to engage the top surface of said strip, said center rail having a bottom surface extending below the level of the top surfaces of said side rails to bow said strip downward across its width so that the portion of said strip between said cutting means and said stop mechanism is relatively rigid.

2,637,395
ROTARY CUTTER WITH VARIABLE SPACING MEANS
Otto Muller, Southbridge, Mass.
Application September 17, 1949, Serial No. 116,345
4 Claims. (Cl. 164—61)



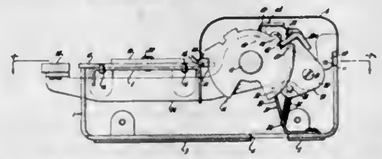
4. A device of the character described comprising a base having a pivot support adjacent one end thereof and a contact member supported adjacent its opposite end, cloth spreading means on said base below the pivot support, a head having a plurality of cutter members rotatably supported thereon and movable to varying spaced relation with each other, said head being pivotally connected to said pivot support, means for retaining said cutter members in given spaced relation with each other, said means comprising an arm pivotally connected to said head and having a plurality of different sized spacer members rotatably attached adjacent the free end of said arm for selective positioning between said cutter members, means for retaining said cutter members and spacer members in operable relation with each other, and means for resiliently urging said cutter members into engagement with the contact member.

2,637,396
PAPER DRILL
William R. Spiller and Lloyd L. West, Dayton, Ohio, assignors to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware
Application December 26, 1946, Serial No. 718,380
8 Claims. (Cl. 164—90)



1. In a multiple spindle drill of the character described, a rail assembly, a plurality of drill heads mounted for individual adjustment on said rail assembly, each said head having a discharge for the chips produced thereby, and chip conveying means carried by said rail assembly for withdrawing the chips produced by the several said drills including an open slot extending along and closely adjacent the zone of discharge of said drills, a suction chamber above and communicating with said slot and of substantially greater area than said slot providing for high flow velocities through said slot and substantially reduced flow velocities in said chamber, said chamber having a smooth upwardly curved rear wall in the path of travel of the chips from said slot to cause the chips to travel upwardly therein and to be dropped repeatedly into the rapidly traveling air in the area of said slot to thus traverse said chamber with a spiral motion, and means connected to said chamber for creating suction therein to cause said chips to be drawn through said slot and to travel along said chamber toward a point of discharge therefrom.

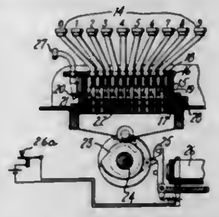
2,637,397
GANG PUNCH
Nelson S. Welk, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation of Ohio
Application July 12, 1948, Serial No. 38,312
5 Claims. (Cl. 164—91)



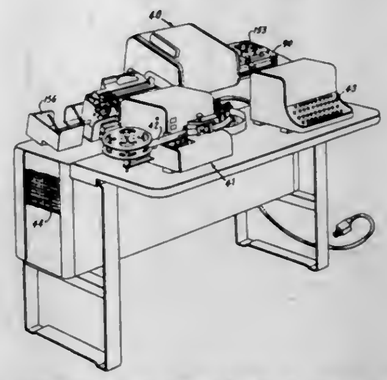
1. A gang punch including a shaft, a plurality of punching members rotatably mounted on said shaft, each member having a notched portion, an operating lever mounted on said shaft for pivotal movement about the axis thereof, and an actuating member carried by the lever and engaging the notched portions on the members for causing movement of said members to and from an operative position, said actuating member being pivotally mounted on the lever for movement away from and toward said punching members whereby when said actuating member is moved away from said punching members, said punching members may be rotated to such a position that said actuating member will not engage said notched portions when said member is moved toward said members.

2,637,398
RECORD PUNCHING MACHINE AND RECORDING MACHINE CONTROL BY SAID PUNCHED RECORD
Thomas J. Watson, New Canaan, Conn., and Samuel Brand, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 4, 1947, Serial No. 752,390
2 Claims. (Cl. 164—112)

1. In a machine of the class described, wherein paper checks having written data thereon and of equal or various lengths are punched in selected areas which will effect the minimum or no defacement of said written data and to subsequently control a recording machine, the combination of a multidenominational keyboard, punches including an alignment control hole punch, means for causing said alignment control hole punch to punch an alignment control hole, and for causing said punches under control of said keyboard to punch multidenominational amount representing holes on said check to represent the multidenominational amount written thereon, said amount representing punched holes and alignment control hole being located at said selected areas on the check which are variably located with respect to the vertical edges of the checks to lessen defacement of informative written matter on the check, a plurality of denominationally ordered selector control means for a recording machine, means for pneumatically sensing the amount representing punched holes, a photoelectric cell rendered responsive to a projected light ray passing through said alignment control hole when the alignment control hole is correlated with said photelectric cell, and means rendered operative by said photelectric cell when said latter is rendered responsive for causing said pneumatic sensing means to be operative to sense the amount representing holes to control said denominationally ordered selector control means.



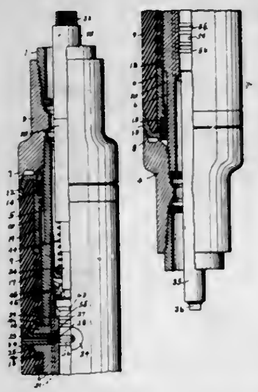
2,637,399
RECORD CONTROLLED PERFORATING MACHINE
Charles R. Doty, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 13, 1950, Serial No. 173,661
21 Claims. (Cl. 164—115)



1. Apparatus for perforating a record card column-by-column in accordance with information represented by transverse rows of code designations in a record tape, such apparatus comprising tape reading means for sensing and analyzing the code designations in the record tape row-by-row, perforating means for perforating informa-

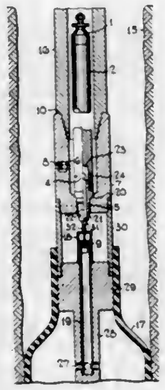
tion column-by-column in the record card, means normally effective to transfer information from said tape reading means to said perforating means for causing the card to be perforated column-by-column in accordance with the information represented by the corresponding rows of code designations on the tape, function-controlling elements selectively operable to supersede the action of said normal transfer means for modifying in various predetermined ways the normal transfer of information from the tape to the card, a control panel having exit hubs respectively pertaining to predetermined tape code designations and having entry hubs respectively pertaining to said function-controlling elements, said tape reading means including provisions for rendering a selected one of said exit hubs active whenever one of said code designations is sensed thereby, and readily removable plug connecting means for selectively interconnecting said exit hubs and said entry hubs in accordance with the modification of normal machine operation that is desired, with each of said function-controlling elements becoming operative whenever its related entry hub is connected to an active one of said exit hubs for effecting such modification upon the sensing of a predetermined code designation.

2,637,400
WELL TESTER
Luther E. Brown, Gregton, and Ollin W. Williams, Houston, Tex.
Application April 15, 1946, Serial No. 662,142
10 Claims. (Cl. 166—1)



1. In a wall tool, a packer assembly comprising, a tubular packer support open to a well bore at its lower end, an expansible sleeve-like packer around and supported on the support, tubular plungers formed of rigid material forming the ends of the packer and slidable on the support and forming fluid tight joints therewith, a pressure chamber between each plunger and the support, said assembly having a port connecting the chambers into the interior of the support whereby the fluid pressure within the chambers and on the outside of the packer will be equalized when the tool is submerged in liquid in a well bore and means for lowering the pressure in said chambers to allow the movement of the plungers toward each other by the pressure of the well fluid outside of the packer to cause expansion of the packer.

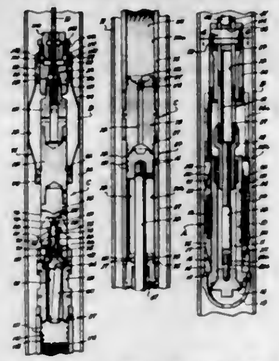
2,637,401
DRILL STEM PACKER WITH DEFLATING MEANS
George H. Ramsey, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 30, 1950, Serial No. 198,337
4 Claims. (Cl. 166—10)



1. In a drill stem balloon packer apparatus comprising a supporting member attachable to a drill stem and having attached thereto a balloon packer, a passageway within said member to conduct fluid from within said drill stem to the balloon packer to cause inflation of the packer and a check valve in said passageway to hold fluid within said packer; a tool for deflating said packer comprising a body adapted to pass down through said drill stem, a projection on said body adapted to open said check valve, a portion of said body closing off said passageway between the drill stem and the check valve, a channel through said body communicating between said drill stem and said passageway below said closed off portion and a check valve in said channel operating to block fluid flow from said drill stem to said packer while permitting flow in the reverse direction.

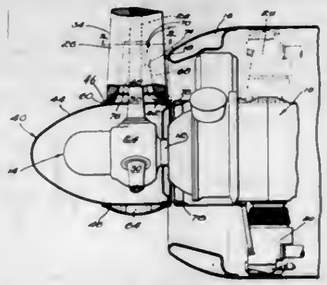
2,637,402
PRESSURE OPERATED WELL APPARATUS
Reuben C. Baker, Coalinga, and Martin B. Conrad, Huntington Park, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application November 27, 1948, Serial No. 62,326
6 Claims. (Cl. 166—12)

1. In well apparatus: a well device having a tubular body and normally retracted means for engagement with a well casing; a plug at the lower end of said body closing its central bore; fluid actuated means for setting said device in the well casing, comprising a piston for exerting a downward force on said normally retracted means and a cylinder for exerting an upward force on said body; and means forming a detachable connection between said cylinder and plug, said detachable connection means comprising a releasing stud secured to said plug and having an intermediate portion of reduced diameter, a tension rod secured to said stud, and means secured



to said cylinder and having an adjustable threaded connection with said tension rod.

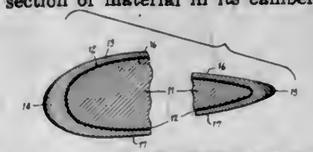
2,637,403
PROPELLER SPINNER CONSTRUCTION WITH BOUNDARY LAYER CONTROL
Rudolf N. Wallace, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 6, 1949, Serial No. 131,444
6 Claims. (Cl. 170—135.4)



1. In an aircraft propeller installation comprising a prime mover, a variable pitch propeller driven by said prime mover including a hub and a plurality of blades extending from said hub, and a spinner surrounding said hub, passage means within the confines of each of said blades including an exit therefor and an opening communicating with the outer surface of said spinner for utilizing suction induced by the centrifugal force on the air contained in said passage to draw boundary layer air from the external surface of the spinner.

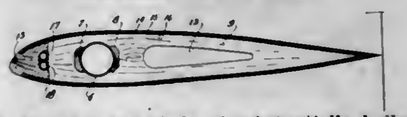
2,637,404
RUBBER-BACKED PROPELLER
Siegfried G. Bart, Essex Fells, N. J.
Original application September 7, 1950, Serial No. 183,595. Divided and this application September 5, 1951, Serial No. 245,160
4 Claims. (Cl. 170—159)

2. A substantially rigid aeroplane propeller blade having a slight degree of flexibility along its longitudinal medial plane, said blade including an inner, preformed, relatively rigid core functioning to give configuration and strength to the blade, an intermediate layer of a rubber-like cushioning material enclosing the core and an outer skin of strain-free metal enclosing the layer of cushioning material, presenting a continuous unbroken surface to the air-beating portions of the blade and defining the leading edge, the trailing edge and the tip of the blade and between the leading and trailing edges forming the upper and lower camber portions of the blade, said outer metal skin being of relatively thin cross section of material in its camber-forming



portion to provide for flexibility and thus to provide for a hinge effect along the medial plane of the blade, and said metal skin in the parts forming the leading and trailing edges and the tip having a cross section of material greater than the portions which form the camber portions, thus providing more rigidity in the edges and tip than in the camber portions, thereby to provide a relatively thin and more flexible cross section of material in that portion of the skin which forms the camber portions of the blade than in the edge and tip forming portions.

2,637,405
LIGHTWEIGHT STRUCTURE FOR AIRCRAFT SUSTAINING ROTOR BLADES
Paul H. Stanley, Huntingdon Valley, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application March 22, 1947, Serial No. 736,459
4 Claims. (Cl. 170—159)

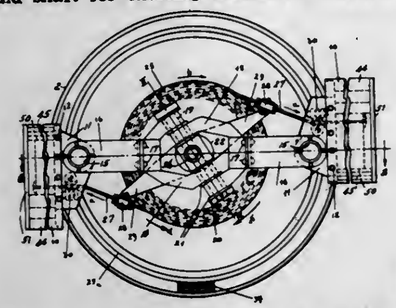


1. An air rotor blade of substantially hollow and light-weight construction, comprising a largely hollow spar extending lengthwise of the blade, positioned to carry directly axially the centrifugal load of the blade and proportioned to carry said load and the major bending loads on the blade, a largely porous airfoil shell with reinforcing lamina, and a plurality of largely porous stiffeners having reinforcing lamina, said stiffeners being located at intervals along the blade and interconnecting said spar and shell.

2,637,406
TELESCOPIC ROTOR BLADES AND BRAKES THEREFOR
Vittorio Isacco, London, England
Application January 9, 1948, Serial No. 1,458
In Great Britain October 7, 1947
3 Claims. (Cl. 170—160.11)

1. A rotor for a rotatable wing aerial apparatus, comprising a rotatable shaft, a plurality of telescopic propeller blades mounted on said shaft to rotate therewith, a cable reel on said shaft, retractive cables connected between said reel and the tip elements of said blades, said reel being rotatable on said shaft to wind said cables thereon to retract said telescopic blades and to pay out said cables upon extension of said blades by

centrifugal action when said shaft is rotated, means for holding said reel against rotation with said shaft to wind said cables thereon, manually adjustable brake means between said reel and said shaft for exerting a selected constant re-



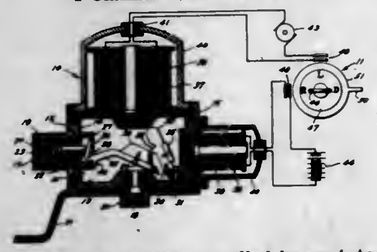
sistance to relative rotation between said shaft and reel, and manually adjustable brake means on the base end of each of said blades and engaging the respective cable to selectively retard the paying out of the individual cables to ensure uniform extension of said blades.

2,637,407

AUTOMOBILE THEFT PREVENTION DEVICE

William Russell Burk and Harold Leroy Burk, Canton, Mo.

Application January 25, 1951, Serial No. 207,755
4 Claims. (Cl. 180—82)



1. In a motor vehicle propelled by an internal combustion engine having a fuel line, a theft preventer comprising: an electromagnetic valve controlling the fuel line and biased to open position; a latch for retaining said valve in closed position; electromagnetic means for releasing said latch; a key-controlled rotary switch having two pairs of contacts, each pair being adapted to be closed separately by two different angular positions of said switch; an electric storage battery; a battery circuit including said electromagnetic means and one of said pairs of contacts; an engine-driven electric generator; and a generator circuit including said electromagnetic valve and the other of said pairs of contacts.

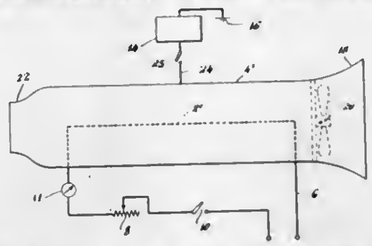
2,637,408

METHOD AND APPARATUS FOR TREATING FLUID MEDIUM

Oleg Yadoff, New York, N. Y., assignor to Electronatom Corporation, New York, N. Y., a corporation of New York

Application October 19, 1950, Serial No. 190,905
18 Claims. (Cl. 183—7)

1. Apparatus for treating material by subjecting it to the effect of an interaction between an electromagnetic field and an electrical field, comprising first circuit means including an electric conductor and a first source of electromotive force for passing an electric current through said conductor of sufficient voltage to establish an electromagnetic field in and around said conductor, container means defining an interaction zone about and surrounding said conductor in spaced relationship therewith, said container



means comprising at least one pole spaced from said conductor, a second source of relatively high static voltage approximately of the order of 1 kilovolt per centimeter of distance between said conductor and said one pole separate from and independent of said first source, and second circuit means separate from and electrically independent of said first circuit means for connecting said second source to said one pole.

2,637,409

DISPOSABLE DUST BAG FOR VACUUM CLEANERS

Edgar P. Turner, Fanwood, and Norris H. Sailer, Union, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application October 28, 1950, Serial No. 192,314
5 Claims. (Cl. 183—51)



1. A disposable dust bag for vacuum cleaners, comprising, a first pervious member, a second pervious member, said second pervious member being infolded and outfolded on two sides thereby forming a member that is coextensive with said first pervious member, an impervious trap member coextensive with substantially one-half the length of said first member, means securing portions of said pervious members together and at the same time securing said trap member between said pervious members, and additional means securing said trap member to one of said pervious members.

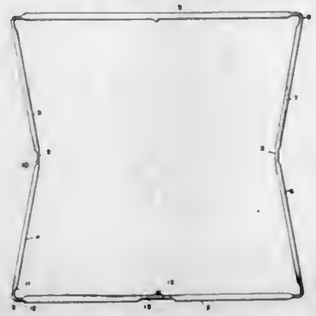
2,637,410

FILTER STRUCTURE FOR SUCTION CLEANING APPARATUS

Frank A. Martin, Akron, and Melvin H. Ripple, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application April 25, 1951, Serial No. 222,784
7 Claims. (Cl. 183—51)

1. A folding frame for filter sack mouths comprising a pair of opposed principal side members, a folding leaf hinged to each end of each of said side members, and a pair of hinge sections each hingedly joining the free ends of a pair of said folding leaves joined to corresponding ends of said principal members, said frame being a one piece structure with the hinge portions thereof biased to move said principal members apart until each of said leaves assumes a position



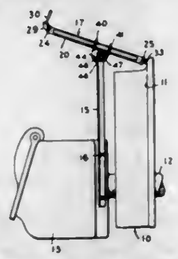
forming an internal angle less than a right angle with the principal member to which it is directly connected whereby pressure applied to the outside of said principal members will move said members together folding said leaf members together between said principal members.

2,637,411

LUBRICATOR FOR CAR WHEEL FLANGES

Alan L. Harbison, Baden, Pa.

Application March 18, 1952, Serial No. 277,155
3 Claims. (Cl. 184—3)



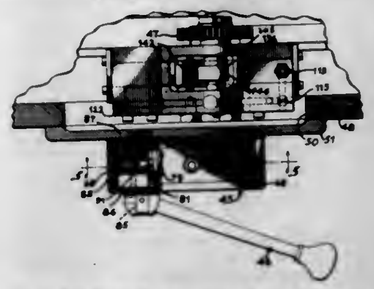
3. A wheel flange lubricator comprising an inner tubular body of transparent material, an outer tubular body receiving said inner tubular body and having at least one longitudinally extending window opening therein, nuts threaded onto said outer tubular body one at each end thereof and exerting pressure on the adjacent ends of said inner tubular body, one of said nuts having a reamed bore therethrough adapted to slidably receive a stick of solid lubricant and the other of said nuts having a tapped hole therein adapted to receive one end of an air line, a piston in said inner tubular body adapted to engage the adjacent end of a lubricant stick and exert pressure thereon in a direction outwardly of said one nut when air under pressure is admitted to said inner tubular body through said other nut, a standard adapted to be mounted on a vehicle adjacent a wheel flange to be lubricated, and means pivotally connecting said standard to said outer tubular body intermediate the length of the latter to support said lubricator in selected positions of angular adjustment relative to said standard.

2,637,412

LUBRICATING APPARATUS

William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio

Application September 8, 1948, Serial No. 48,247
9 Claims. (Cl. 184—6)



1. An apparatus for lubricating the bed ways and apron gearing of a lathe comprising: a manually operable lubricant supply pump, a hand lever connected to the manually operable pump for reciprocating the same, an automatic lubricant supply pump associated with said manually operated pump, driving means connecting the automatic pump to the apron gearing for reciprocating the same, a high volume and a low volume displacement piston and chamber in each of said respective pumps, a lubricant supply reservoir associated with both of said pumps, a lubricant distribution system leading from the respective high volume and low volume displacement chambers of said manually operated pump and automatic pump to said carriage and apron gearing respectively, the respective high volume and low volume displacement chambers of each of said pumps communicating with each other in reverse order whereby operation of either of said pumps supplies lubricant to the carriage and apron gearing concurrently at high and low volume displacement, the high and low volume displacement being supplied in reverse order to the carriage and apron gearing upon operation respectively of the manually operated pump and automatic pump.

2,637,413

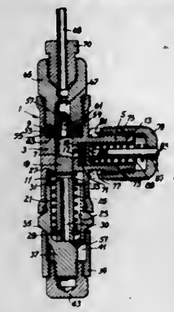
LUBRICANT INJECTOR

Alexander P. Fox, University City, and Carl H. Mueller, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application April 22, 1950, Serial No. 157,562
2 Claims. (Cl. 184—7)

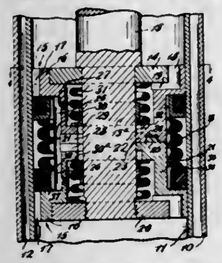
1. In a lubricant injector, an injector body having a discharge chamber opening at one end into an enlarged outlet opening, with an outwardly facing shoulder at the inner end of the outlet opening, a check valve in the outlet opening comprising a one-piece body of soft resilient material having a base seated on the shoulder and a nipple projecting from the outer face of the base, the valve having a passage through the base into the nipple and the latter being transversely slit over part of its periphery to provide a port through the nipple from the passage, means holding the base of the valve against the shoulder, and a plunger reciprocable in the discharge chamber and movable through a pressure stroke to discharge lubricant from the discharge chamber through the valve, the passage through the base of the valve being of smaller cross-section than

the working end of the plunger so that the base of the valve presents a seat at said one end of



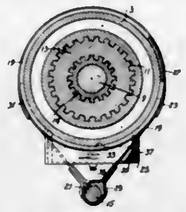
the discharge chamber for cushioned sealing engagement by the working end of the plunger at the end of its pressure stroke.

2,637,414
SHOCK ABSORBER
William G. Patriquin, Cleveland, Ohio, assignor to The Gabriel Company, Cleveland, Ohio, a corporation of Ohio
Application August 31, 1951, Serial No. 244,512
4 Claims. (Cl. 188—100)



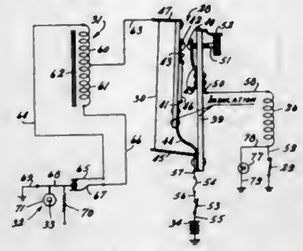
1. In a fluid shock absorber of the character described, a working cylinder and a piston reciprocable therein and comprising a piston body formed of a pair of symmetrical members arranged in reverse relationship to each other and having portions spaced apart longitudinally of the cylinder and slidable therein, said members having sleeve portions intermediate the first-named portions and abutting each other and spaced radially inwardly from said working cylinder to provide an intermediate annular space, a piston rod passing through said members, means on said rod securing said members in assembled relationship thereon, said first-mentioned portions of said members being provided on their peripheries with longitudinally extending grooves communicating with said intermediate space and with the working cylinder at the opposite sides of the piston, primary valve means movable on said sleeve portions, spring means acting on said primary valve means to normally maintain the same seated against said first-mentioned portions to close said peripheral passages, passages in said sleeve portions extending from the said intermediate space to the interiors of said sleeve portions, secondary valve means within said sleeve portions, and independent spring means acting on said secondary valve means to maintain the same seated to close said last-mentioned passages.

2,637,415
BAND BRAKE
Martin P. Winther, Gates Mills, Ohio, assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 13, 1949, Serial No. 132,763
4 Claims. (Cl. 188—137)



3. A brake comprising a housing, a magnetic brake drum rotary in the housing, an anchor pin fixed in the housing extending longitudinally and located outward of the periphery of the drum, a lined brake band element loosely anchored at one end to one end of the pin and coiled in a helix around the drum, an electromagnetic shoe attached to the other end of the brake band element adapted to cling to and rotate with the drum upon being energized, and a second lined brake band element loosely anchored at one end to the other end of the pin, coiled in a helix around the drum, and attached at its other end to the shoe, the first band element extending in one direction from its anchor to the shoe for braking upon rotation of the drum in said one direction, the second band element extending in the opposite direction from its anchor to the shoe for braking upon rotation of the drum in said opposite direction, the shoe comprising a box-like magnetic member having a curved open face shaped to fit the periphery of the drum and having a magnetizing coil around a pole therein, and being skewed to follow the helix of the brake band elements.

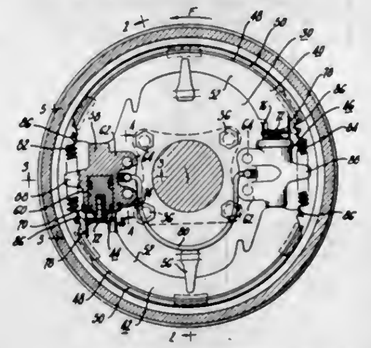
2,637,416
CONTROL MECHANISM FOR BRAKE HOLDERS
Glen A. Guernsey, West Springfield, and Arthur H. Green, East Longmeadow, Mass., assignors to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application March 15, 1951, Serial No. 215,845
3 Claims. (Cl. 188—152)



1. A brake control means for wheeled vehicles, comprising, a brake holder, electrical means for actuating the brake holder, an energizing circuit for said means adapted for connection to a source of electricity, a switch in said circuit, a

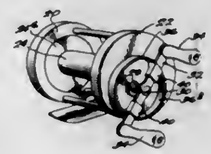
member having a relatively high coefficient of expansion for controlling the actuation of said switch respectively closing and opening the same by its expansion and contraction, a normally closed heating circuit for said member adapted for connection to a source of electricity, voltage-varying means in said heating circuit and including a rotatable actuator adapted for connection to the propeller shaft of the vehicle and to be driven by and at speeds proportional to the speeds of such shaft, said voltage-varying means varying the voltage in the heating circuit inversely with the speed of its actuator and initiating effective heating of said member at a predetermined low speed, corresponding to a low vehicle speed of only a few miles an hour, to cause said member to be heated sufficient to actuate said switch and maintaining said member effectively heated at all speeds below said predetermined speed.

2,637,417
BRAKE
Bryan E. House, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 6, 1946, Serial No. 714,468
22 Claims. (Cl. 188—152)



1. A brake, for use in cooperation with a rotatable drum, comprising a sheet metal plate-like member having a flat annular center portion adapted to serve as a support for the anchoring and applying means of the brake and having an integral axially offset cover portion adapted to serve as a closure for the open side of the drum, said center portion having at each of two substantially diametrically opposed locations an opening for a fastening member and two round torque-taking laterally projecting nibs, said cover portion having a plurality of circumferentially spaced shoe-guiding ledges near the periphery thereof, two hydraulic actuators, each having a body portion located radially outwardly beyond the periphery of the annular center portion of the plate-like member, the body portion of each actuator having a cylinder bore the axis of which lies in the plane of said center portion, each actuator having a single integral laterally-offset radially inwardly extending flat flange lying against the face of said center portion, each flange having two depressions into which fit the respective two torque-taking nibs, an axially extending fastening member extending into each flange and through the respective opening in the center portion of the plate-like member, at least one piston reciprocable in the cylinder bore of each actuator, each actuator having a radially outwardly extending integral spring-guiding projection, two T-section shoes, each having its web in the plane of the center portion of the plate-like member and each having one end of its rim lying against a plurality of the aforementioned ledges on the cover portion of the plate-like member, said shoes being operatively associated with the pistons in the respective hydraulic actuators, whereby outward movement of the pistons moves the shoes toward the drum, and anchoring torque of the shoes is transmitted through the hydraulic actuators to the center portion of the plate-like member, two return springs in tension between the ends of the shoes at opposite sides of the brake, said springs being laterally deflected by the spring-guiding projections of the respective actuators to derive a component holding the shoe rims against the guiding ledges, and shoe hold-down devices carried by the center portion of the plate-like member and engaging the shoes near the center thereof to assist in retaining them in the proper lateral position.

2,637,418
FISHING REEL
Mary Winifred Elliston, Chicago, Ill., assignor of one-half to Edith K. Weinstein, Highland Park, and one-half to Leroy A. Kling, Evanston, Ill.
Application October 2, 1948, Serial No. 52,458
11 Claims. (Cl. 188—184)

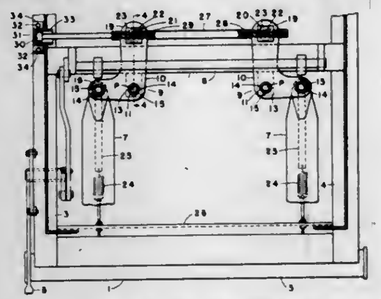


1. A friction braking attachment for a fishing reel of the type having a radially extending handle operable to wind fish line when rotated and supported on a shaft, said attachment comprising a disk defining an inwardly facing braking surface encircling said shaft and a member having parts thereon directly engaging said handle for rotations therewith and radially movable relative to the handle to engage said braking surface, thereby to brake said handle in accord with the angular velocity thereof.

2,637,419
BRAKE BAND EQUALIZER ADJUSTING MECHANISM
Richard N. Cordrey and Dallas E. Wright, Toledo, Ohio, assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 19, 1952, Serial No. 277,462
5 Claims. (Cl. 188—204)

1. In a braking mechanism, a pair of spaced brake drums mounted for rotation on a frame, a brake band mounted on each drum, equalizer means for securing the dead ends of the brake bands and to equalize the tension on said bands, said equalizer including two piece bell cranks, adjusting nuts and a rotatable shaft operatively associated with said bell cranks through said nuts and extending substantially to one edge of said frame, a non-circular portion on the end of said shaft nearest said frame and means detachably secured to said frame and enclosing said non-circular portion of said shaft to retain said shaft

in a locked position relative to said frame, said same means when detached from said frame be-



ing adapted upon manual manipulation to impart rotary motion to said shaft.

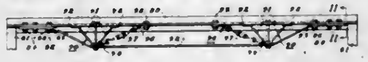
2,637,420
SPLIT FLEXIBLE BRAKE BAND
Harold E. Churchill, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application November 12, 1949, Serial No. 126,827
2 Claims. (Cl. 188—259)



1. A bifurcated brake band comprising a single metal strap formed as an open annular ring, the opposing ends of said band being spaced apart along the circumferential periphery thereof to allow for resilient closure of said band during braking movement thereof, lining material disposed along the inner surface of said band and rigidly secured thereto, said annular construction comprising said metal band and attached lining having a centrally disposed slotted opening formed therethrough reaching substantially around the circumferential length of said band and lining thereby dividing said band and lining into a pair of similar narrow bands adapted to be uniformly and simultaneously expanded and contracted to provide braking action thereof, and common connective means disposed between the several opposed ends of said narrow bands comprising the remaining end portions of said single band not separated by said annular slotted opening.

2,637,421
STABILIZED BEAM CONSTRUCTION
Merl R. Wolfard, Cambridge, Mass.
Application November 25, 1949, Serial No. 129,384
5 Claims. (Cl. 189—37)

1. A stabilized beam construction, comprising, in combination, a beam member extending across a span between supporting means; an auxiliary member extending lengthwise of and below said beam member; connecting means supporting said auxiliary member from said beam member within each end-sixth of the span, the innermost point of supporting contact of each said connecting means being in the range of about 4% to about 16% of the length of the span from the end of the span; a strut disposed between the beam and auxiliary members in each second-fifth of the length of the span from the end of the span, and holding said members apart from each other; and a tie attached to the auxil-



iary member at the vicinity of the lower end of each said strut, each said tie thence extending upwardly at an incline toward the center of the span to the beam member and there attached to that member; each said tie having a relative length in said construction such that, when the construction is static, the beam member intermediate of said struts is structure-loaded, thereby producing downward deflection of the mid-region of the beam member relative to said struts.

2,637,422
WINDOWPANE SECURING STRIP
Elva L. Bell, Spokane, Wash.
Application September 29, 1950, Serial No. 187,601
1 Claim. (Cl. 189—77)

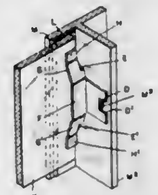


A window pane fastener comprising an elongated strip folded transversely and forming leaves upwardly diverging toward their free side edges and formed with opposed openings through which screws are adapted to be passed to secure the strip against a window sash and force the leaves toward each other to a window pane securing position, one of said leaves having a portion bent outwardly at right angle to form a laterally extending ledge adapted to be supported by the inner face of a window sash and carry the weight of a glass and thence bent upwardly and together with the companion leaf defining jaws and a pocket between the jaws, an elastic packing strip extending longitudinally in said pocket in position for engagement with the edge face of a marginal portion of a window pane fitted into the pocket, diagonal lips along free side edges of said leaves and extending towards each other in position for gripping opposite inner and outer faces of the window pane when the screws are tightened, perforations in the jaws of the pocket, and transversely extending openings in the packing strip and registering with the perforations and constituting air vents.

2,637,423
GLAZING CLIP
Vincent T. Creegan, Center Line, Mich., assignor to Gabriel Steel Company, Detroit, Mich., a corporation of Michigan
Application November 13, 1950, Serial No. 195,405
3 Claims. (Cl. 189—78)

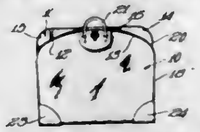
1. A glazing clip for securing a transparent pane to a frame, which latter has a bar parallel to one edge of said pane forming a seat therefor

and also extending outward beyond and transverse to the plane of said pane; comprising a resilient elongated bowed member formed of pressed sheet material having an anchor projecting laterally from the central portion of the bow adapted for engaging a bored aperture in



said bar when said bowed member is positioned to extend longitudinally thereof and adjacent thereto and is pressed against said pane, the resilient opposite end portions of the bow contacting said pane and having detents for engaging the edge thereof.

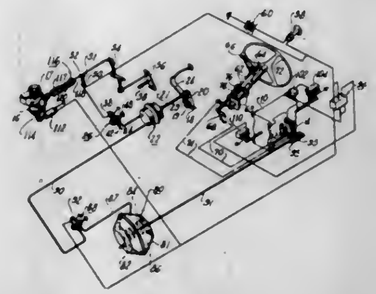
2,637,424
CLOTHING BAG
Morris L. Duskin, Chicago, Ill.
Application July 10, 1951, Serial No. 236,013
4 Claims. (Cl. 190—43)



1. A garment bag comprising a pair of panels of flexible material defining the front and rear surfaces of said bag, a pair of downwardly tapered gusset members separating said panels at one end of said bag, said gusset members extending from the top of said bag and terminating at a central portion thereof to provide an enlarged upper supporting end and tapered side wall portions between said panels terminating at a central portion of said bag, and a hanger rack in said enlarged upper supporting end.

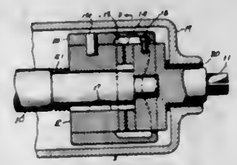
2,637,425
TRANSMISSION OPERATING MECHANISM
Richard H. Long and Edwin E. Prather, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 25, 1951, Serial No. 228,258
1 Claim. (Cl. 192—.092)

In an automotive vehicle the combination, with an accelerator, a multi speed transmission, means operated by the physical effort of the driver for operating the transmission, a clutch, and a vehicle speed responsive governor, of power means for operating the transmission to establish the same in a certain setting and thereby supplement the operation of the transmission by the physical effort of the driver, said power means including a motor for operating the clutch, means, including an accelerator operated control means, for controlling the operation of said motor, a motor for operating the transmission, means interconnecting said motors whereby the transmission operating motor may be energized to operate the transmission when and only when the clutch operating motor is energized, and means supplementing the latter means and operative, together with said latter means, to control the operation of the transmission operating motor and including a relay comprising a coil and two normally open switches, means connected in series with said coil and including a battery, a governor operated switch which is



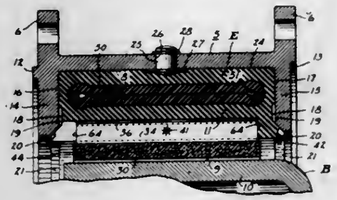
closed when the vehicle speed is reduced to or below a certain factor, and a switch which is closed by the transmission when the same is established in a certain setting; together with electrical means interconnecting, in series, the battery, one of the relay switches, and a part of the means interconnecting the two motors.

2,637,426
IMPACT TYPE CLUTCH
Paul R. Van Sittert, Shaker Heights, Ohio, assignor to The Rotor Tool Company, a corporation of Ohio
Application February 4, 1948, Serial No. 6,322
5 Claims. (Cl. 192—30.5)



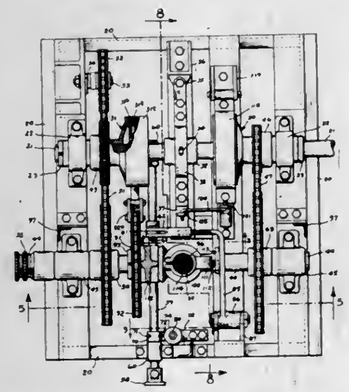
1. In combination, a rotatable driving member, a driven member substantially coaxial therewith, clutch means including axially movable means having torque transmitting teeth thereon, said driven member having torque receiving teeth thereon, cam surfaces between said teeth for axially moving said movable means in one direction to effect disengagement of the teeth under a predetermined resistance to rotation of the driven member, and positive re-engaging means adapted to draw the movable means in the opposite direction to effect a clutching engagement between the teeth for transmitting torque to said driven member, said positive re-engaging means including a cam track and cam follower, each said cam track and cam follower being nonrotatively mounted upon one of said relatively movable driven member and movable means, said cam track and cam follower acting on the movable means and driven means at a circumferential position out of phase with said teeth to draw the movable means in said opposite direction after the said disengagement has been effected.

2,637,427
FLUID OPERATED COUPLING WITH DETACHABLE SHOES
Herman T. Kraft, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application March 12, 1948, Serial No. 14,487
28 Claims. (Cl. 192—88)



1. In a torque transmitting device, a friction block comprising a body element having a thin depending flange, and, in combination therewith, a resilient deformable rubber member for mounting the block, said rubber member being formed with a narrow groove to receive the flange with the latter tightly embraced by the rubber member to retain the block in predetermined position relative to the rubber member and to resist twisting of the block on the member, and interfitting formations on the flange and within the groove on the rubber member to resist longitudinal displacement of the flange in the groove, said formations being located intermediate the ends of the flange.

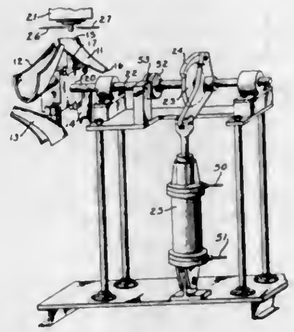
2,637,428
POWER TRANSMISSION UNIT FOR SAWMILL CARRIAGES AND THE LIKE
Budd W. Andrus, Eugene, Oreg., assignor to Monarch Forge & Machine Works, Portland, Oreg., a corporation of Oregon
Application June 12, 1948, Serial No. 32,561
9 Claims. (Cl. 192—145)



1. Setworks for sawmill carriages having knees slidably mounted thereon, said setworks comprising: a rotatably mounted clutch shaft connectable to a source of power; first and second clutch units mounted on the clutch shaft, each clutch unit including a first member rigid to the clutch shaft, a second member rotatable thereabout, and means for releasably coupling the two members; a pair of spring-pressed brake shoes positioned for releasably engaging the second member of the first clutch; a rotatably mounted countershaft; direct drive means interconnecting the second member of the first clutch unit and the countershaft; reverse drive means interconnecting the second member of the second clutch unit and the countershaft; a rotatably mounted drive shaft positioned for driving connection with the carriage knees; means interconnecting the countershaft and the drive shaft for driving the drive shaft from the countershaft; a clutch shifter collar slidably mounted on the clutch shaft intermediate the clutch units; a pivotally mounted clutch shifter arm engaging the collar for reciprocating the collar between a first position wherein it releasably couples together the members of the second clutch unit for reverse driving the drive shaft, and an intermediate inoperative position; cam means connected to the clutch shifter arm and wedged between the brake shoes for separating them against the tension of the springs associated therewith when the collar is in its first position, thereby releasing the brake, and for permitting closure of the brake shoes by the springs when the collar is in its inoperative position, thereby applying the brake shoes; a rotatably mounted rock-shaft; a latch releasably engaging the clutch shifter arm and connected to the rock-shaft; a control lever rigidly affixed to the rock-shaft; a projection on the rock-shaft; a pair of opposed spring-pressed plungers bearing against the rock-shaft for maintaining the same normally in a neutral position; a timing shaft rotatably mounted adjacent the drive shaft; means interconnecting the timing shaft and the drive shaft for rotating the timing shaft; a dial rigid to one end of the timing shaft; a rotatable sleeve encircling the timing shaft; an indexing arm rigid to the end of the sleeve adjacent the dial; jaw means on the indexing arm for releasably gripping the dial, enabling setting the jaw means at a predetermined station thereon preliminary to direct driving of the drive shaft; bifurcated stop means positioned adjacent the dial for engaging and separating the jaw means upon reverse driving of the drive shaft; a cam arm rigid to the other end of the sleeve and rotatable with the dial when the jaws grip the same; a pivotally mounted latch release arm; and a cam follower on the latch release arm, the cam follower being positioned for contacting the cam arm and actuating the latch release arm, thereby releasing the latch, uncoupling the first clutch unit and applying the brake shoes thereto for arresting the motion of the drive shaft immediately after a rotation of the dial determined by the setting of the indexing arm.

2,637,429
GLASS CHARGE DISTRIBUTING APPARATUS
Leander N. Pond, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application May 12, 1948, Serial No. 26,640
4 Claims. (Cl. 193—2)

1. In combination, a group of glass charge delivery troughs having glass charge receiving ends arranged adjacent one another and glass charge delivery ends in alignment with different molds for receipt of charges of glass delivered to the respective troughs, and a glass distributor comprising a support rotatable about a horizontal axis, a plurality of troughs fixed to said support and arranged about the axial center thereof, said latter troughs adapted for alignment with the outlet of a feeder and the receiving ends of different ones of said first troughs in succession as said support is rotated, and means for rotating said support.

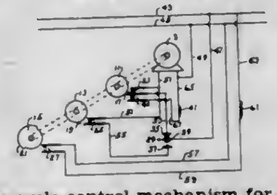


2,637,430
MAIL CHUTE
Martin Katz, New York, N. Y.
Application June 7, 1948, Serial No. 31,564
3 Claims. (Cl. 193—8)



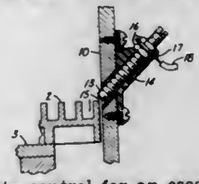
1. A mail chute for a multi-storied building structure having floors and ceilings, comprising a plurality of stationary tapered chute sections each of which extends the full distance from one floor to the next floor, the lower end of each stationary chute section extending into the upper end of the stationary chute section below it and an auxiliary movable chute section which is normally disposed between the telescopic walls of the lower end of each chute section and the upper end of the chute section below it, said movable chute section being slidably and removably mounted in the upper end of a chute section between a floor and an adjacent ceiling whereby said movable chute section may be lowered to a more accessible place in the stationary chute section when a letter-jam occurs in said movable chute section, a door being provided in the movable chute section to render any letters damaged therein more accessible from the outside, said movable chute section being also provided with locking means for holding said door in normal, closed position relative thereto.

2,637,431
REPEAT CYCLE CONTROL MECHANISM
Charles F. Harris, Chicago, Ill.
Application November 17, 1948, Serial No. 60,511
7 Claims. (Cl. 194—9)



1. In a cycle control mechanism for a coin operated machine, a drive means having a starting position, a normally closed first switch and a normally open second switch, first and second control switches in series with said first and second switches respectively and connected to said drive means in parallel with each other, first and second cams operable by the drive means connected to operate said first and second control switches respectively, said second cam being disposed so as to lead the first, said first cam being disposed to hold its switch open when the drive means is at rest in the starting position, and coin operated means to momentarily open the first switch and close the second to energize the drive means through said second control switch, said first cam serving to close said first control switch when the drive means starts and to open said switch to stop the drive means.

2,637,432
SAFETY SWITCH FOR ESCALATORS
Otto Hohnecker, Toledo, Ohio, assignor to Haughton Elevator Company, Toledo, Ohio, a corporation of Ohio
Application July 1, 1949, Serial No. 102,535
5 Claims. (Cl. 198—16)

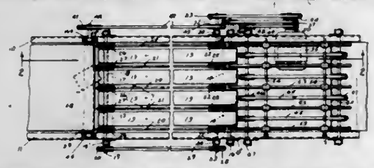


1. In a safety control for an escalator having a continuous flight of step carts that move between floors on an incline and along horizontal planes at floor level landings and having power means subject to a control circuit for driving the step carts, in combination, a relay having contacts included in the control circuit for the power means, said contacts being arranged so that the control circuit is operative when the relay is deenergized, and a control circuit for the relay that includes in series a source of power, step carts, and a contact member firmly mounted adjacent the path of the edges of the step carts and adapted to contact the edge of a cart straying from its intended path.

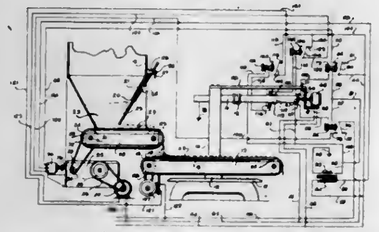
2,637,433
CONTAINER HANDLING CONVEYER
Charles A. Shuttleworth, Warren, Ind.
Application December 9, 1950, Serial No. 199,983
6 Claims. (Cl. 198—33)

6. In a container handling conveyor, the combination with a supporting conveyor having a

width slightly less than the height of the container to be handled, a pair of straightening conveyors disposed on opposite sides of said supporting conveyor, means for driving said supporting conveyor, and means for driving one of said straightening conveyors in the opposite direction to said supporting conveyor and the other straightening conveyor in the same direction as the supporting conveyor at a greater lineal speed.



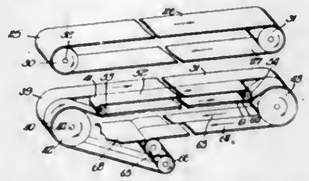
2,637,434
BELT TYPE GRAVIMETRIC FEEDER
Lyndus E. Harper, Chicago, Ill., assignor to Omega Machine Company, Providence, R. I., a corporation of Missouri
Application July 3, 1946, Serial No. 681,385
17 Claims. (Cl. 198—39)



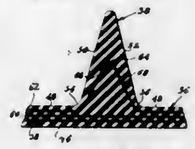
1. Adjustable feeding means and adjustable weight responsive means for controlling the rate of feed of said feeding means, comprising a member assuming a predetermined position whenever the rate of feed of said feeding means is that to which said weight responsive means is adjusted and movable out of such position upon said rate of feed varying from that to which the rate responsive means is adjusted, and means for changing the adjustment of said feeding means only upon movement of said member out of said predetermined position, comprising a cam of fixed contour mounted for rotation, means for continuously rotating said cam, and feed adjustment controlling means cooperating with said cam to change and continue changing the adjustment of said feeding means as long as said member is out of said predetermined position, and to maintain said feeding means in its adjusted position as long as said member is in said predetermined position.

2,637,435
EGG HANDLING APPARATUS
Edward W. Fahey, Chicago, Ill., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application May 13, 1947, Serial No. 747,773
13 Claims. (Cl. 198—85)

1. A conveyor system comprising a pair of horizontally traveling endless belts, certain corresponding reaches of which are non-coplanar, and a third endless belt having a reach coplanar with one of said corresponding reaches of said belt pair in close side-by-side relation thereto, and a reach traveling in contact with the other of said corresponding reaches of said pair, said coplanar reaches each being of width at least as great as that of articles conveyed by said system.

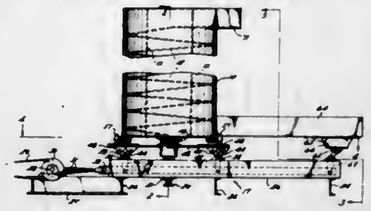


2,637,436
HARVESTER GATHERER BELT
Norman F. Andrews, Ankeny, Iowa, assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Original application June 9, 1947, Serial No. 753,437. Divided and this application July 17, 1950, Serial No. 174,339
4 Claims. (Cl. 198—171)



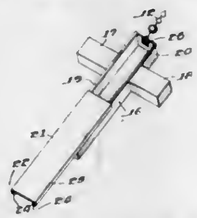
2. For a corn harvester having corn-advancing mechanism including a pair of sheaves spaced apart lengthwise of the path along which the corn is advanced: a corn-handling element comprising an endless flexible belt to be looped about the sheaves and including a plurality of lugs fixed thereon and projecting outwardly therefrom, characterized in that said belt and lugs are integrally composed of rubber reenforced by a plurality of endless cords of stretch-resistant material, certain of said cords being looped outwardly into the lugs.

2,637,437
SPIRAL VIBRATING CONVEYER
Richard S. Jacobsen, Los Angeles, Calif.
Application April 5, 1948, Serial No. 19,003
6 Claims. (Cl. 198—220)



4. In conveyor apparatus having a conveyor trough of the helical formation about a vertical axis and bell cranks arranged in associated pairs at opposite sides of said trough and adapted to oscillate oppositely in vertical planes to impart oscillating vertical and rotary movement to said trough, platform means supported by said bell cranks and adapted to support said trough comprising four members forming a parallelogram and pivotally joined so as to be capable of rhomboidal form, of which each of two opposed members is pivotally connected to one of said pairs of bell cranks so as to be arcuately moved thereby in a vertical plane while being maintained horizontal, bearing means on each of said two opposed members for pivotally supporting said trough thereon, and wheel means for supporting said trough on the other two opposed members.

2,637,438
ROSARY CROSS CASE
Francis X. Menz and Gus C. Menz, Millville, N. J.
Application February 24, 1950, Serial No. 145,932
1 Claim. (Cl. 206—19)



In a cross-shaped receptacle, the combination which comprises an elongated substantially hollow body having arms extended therefrom, said arms being box-like and enclosed and the upper surfaces thereof being spaced from the upper surface of said body said body being rectangular shaped in cross section and having a base with sides and ends extended upwardly therefrom and with beads on the outer edges of the sides that extend above the plane of the arms due to the spacing of the upper surface of the arms from the upper surface of the body, a cover having depending flanges at the sides with lips on the edges of the flanges slidably mounted on the upper edges of the sides of the body with the flanges thereof extended over the beads of the said sides, the said arms being spaced from one end of the body, and a rosary attached to the end of the body from which the arms extend whereby with the cover in the open position the rosary is inserted in the said body.

2,637,439
SOAP PACKAGE
Millard S. Banks, New York, N. Y.
Application February 16, 1949, Serial No. 76,763
1 Claim. (Cl. 206—47)



In combination, a single service amount of soap particles, adapted to substantially instantaneous solution in water, an open ended water disintegratable wrapper therearound holding said soap particles fragilely in cylindrical form, a fragile, disposable fiber towel folded in substantially flat form about said soap particles in the water disintegratable wrapper, said cylinder of soap particles having a length less than the fold of said towel, positioned substantially medially in said fold, the two serving to strengthen and reinforce each other sufficiently to permit shipping and vending while holding each other in proper form, the soap and water disintegratable wrapper being adapted to quick disintegration in the presence of water to yield a good lather, the paper towel being adapted to support the soap cartridge, substantially to close the ends of said cylinder.

2,637,440
RECEPTACLE FOR LIPSTICKS
Mildred Lodewick and Madeleine Lodewick, New York, N. Y.
Application March 18, 1947, Serial No. 735,472
1 Claim. (Cl. 206—56)

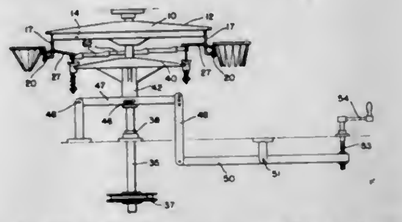


In a lipstick receptacle, an elongated body, a socket extending into said body from one end thereof, the inner wall of said socket being circular in cross-section over the greater portion of its circumference, the remaining portion of its circumference converging to form a peak, and a single leaf spring secured within said socket opposite said peak, adapted to engage and retain a lipstick when the latter is inserted therein.

2,637,441
PACKAGE
Frank W. Woodman, Maplewood, La., assignor to Columbia-Southern Chemical Corporation, a corporation of Delaware
No Drawing. Application April 7, 1950, Serial No. 154,742
3 Claims. (Cl. 206—84)

3. A package comprising solid anhydrous sodium hydroxide in a non-reusable steel drum the interior of which is lined with a nickel plate having a thickness of 0.0001 to 0.0005 inch in thickness.

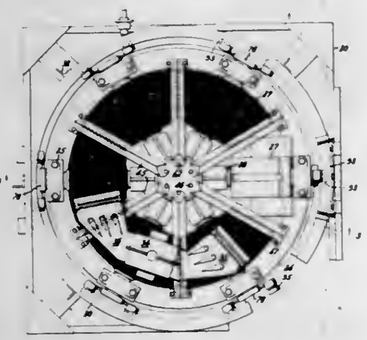
2,637,442
SIZE GRADING DEVICE
Otto B. Hartrampf, Hillsboro, Oreg.
Application January 22, 1951, Serial No. 207,072
5 Claims. (Cl. 209—87)



1. A size grading device comprising: a supporting member; a vertical shaft journaled in said supporting member; power means for rotating said shaft; a horizontally-disposed, circular cup-supporting member fixedly secured to the upper portion of said vertical shaft to rotate therewith; a multiplicity of grading cups spaced and radially disposed about the perimeter of said cup-supporting member, each cup having a ring disposed horizontally and a plurality of conjointly operating leaves depending therefrom; spring means connected to said leaves tending to move them to a closed position; a horizontally-disposed, circular cam-supporting member posi-

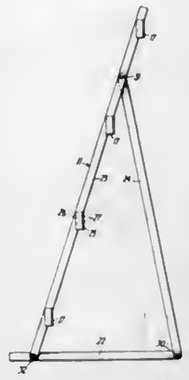
tioned on said shaft below said cup-supporting member in a manner permitting rotation of said shaft with relation to said cam-supporting member; manually operable elevating means connected to said supporting member and said cam-supporting member for adjusting, during operation of the grading device, the vertical position of said cam-supporting member as a unit; a multiplicity of vertical cam-supporting bolts disposed about the perimeter of said cam-supporting member; means for adjusting the vertical position of each cam-supporting bolt; a multiplicity of cam rails; each of said cam rails being disposed between two of said cam-supporting bolts and pivotally connected at its ends to said two bolts; a leaf actuating arm connected at one end to a master leaf on each of said grading cups, the other end of said actuating arm extending above said cam rails and riding thereon for opening said grading cups.

2,637,443
ROTARY PAN FILTER
Daniel M. Schwartz, Salt Lake City, Utah, assignor to The Eimco Corporation, Salt Lake City, Utah, a corporation of Utah
Application October 3, 1947, Serial No. 777,829
12 Claims. (Cl. 210—202.5)



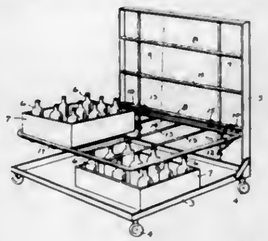
1. In a filtering apparatus, a vertical column having a plurality of conduits and mounted for rotation about a vertical axis; a plurality of horizontally disposed filter pans arranged circumferentially about said column, means supporting said pans for rotation with said column and for rotation about a horizontal axis radial to said column, said filter pans including symmetrically disposed filter cells and separate channels communicating with each cell; valve means located between each of said filter pans and said column, each valve including means operative in response to rotation on the horizontal axis of the filter pan associated with such valve to effect communication between a certain conduit in said column and successive channels of said filter pan; fluid pump means, second valve means coacting with successive conduits of said vertical column to place said conduits in successive communication with said fluid pump means; means for rotating said column and associated filter pans about said vertical axis; and means for successively rotating said filter pans about the radial horizontal axes thereof at a predetermined sector in the revolution of said column-filter pan assembly about said vertical axis.

2,637,444
DISPLAY SUPPORT
Julius Pine, Brooklyn, N. Y., assignor to Sedgwick Furniture Corp., Brooklyn, N. Y., a corporation of New York
Application February 14, 1950, Serial No. 144,130
2 Claims. (Cl. 211—27)



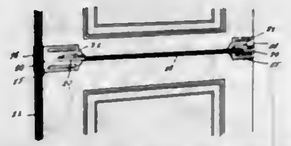
1. A display assembly comprising a pair of supports having inclined faces, a pair of standards therefor, and a plurality of lugs at similarly alined spaced points on said supports and extending in generally vertical planes out from the sides of said standards, said lugs being adapted by alining in pairs to support display elements each having a pair of legs to be secured to a pair of lugs.

2,637,445
DISPLAY RACK FOR BOTTLED GOODS
Lawrence W. Patterson, Santa Ana, Calif.
Application January 25, 1952, Serial No. 268,287
5 Claims. (Cl. 211—74)



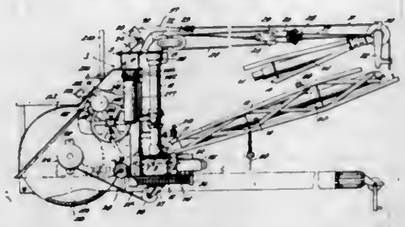
1. A rack for displaying and merchandising bottled and like goods having rigidity and uniform height comprising, in combination, a base, a back frame extending upwardly from an edge of said base and a separator member hinged to the back frame for vertical arcuate movement above and below the horizontal and serving, when supported in the horizontal plane by goods disposed below same, to transmit the load of goods disposed thereon to the goods disposed below and thence to the base, and spring means interconnecting the back frame and separator member for urging the latter upwardly to a position adjacent the back frame upon removal of the last unit of goods disposed on said separator member.

2,637,446
TOWEL BAR
Walter L. Spangler, Kokomo, Ind., assignor to B-W Manufacturers, Inc., Kokomo, Ind., a corporation of Indiana
Application February 28, 1950, Serial No. 146,818
5 Claims. (Cl. 211—86)



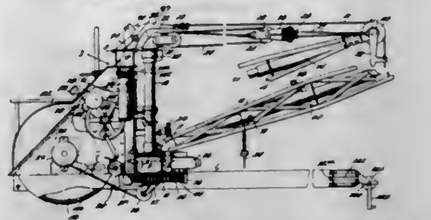
1. In a device of the type described, a pair of brackets adapted to embrace the opposite vertical sides of a door, each of said brackets being formed of sheet-metal and including a front adapted to lie against the face of the door, a portion of said bracket-front intermediate the height thereof being offset forwardly to provide an open-ended horizontally extending socket, a separate U-shaped support formed of strip stock associated with each bracket and having horizontal legs one of which is received and secured in the socket, and a helical tension spring, the other leg of each support being provided with a conical, male screw thread and being screw-threadedly received in the adjacent end of said spring.

2,637,447
BOOM STRUCTURE FOR WRECKERS AND SIMILAR APPARATUS
Ernest W. Holmes, deceased, late of Chattanooga, Tenn., by Samuel Bartow Strang, administrator, Chattanooga, Tenn., and Ernest W. Holmes, Jr., Chattanooga, Tenn., assignors to Ernest Holmes Company, a corporation of Tennessee
Original application December 28, 1944, Serial No. 570,184, now Patent No. 2,479,009, dated August 16, 1949. Divided and this application June 14, 1949, Serial No. 99,093
9 Claims. (Cl. 212—55)



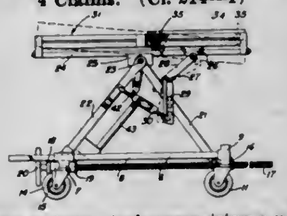
3. A boom structure comprising a mast having means for mounting it in an upright position, a boom having means for pivotally connecting one end thereof to the lower portion of the mast to swing vertically and to swing laterally, said boom comprising a section which is extensible to vary the boom length, boom supporting means connected to the outer end of the boom extending over the upper portion of the mast, and means including a flexible member connected to said extensible section and extending toward the outer end of the boom and provided at its outer end with an attaching means for applying tension to said member to lengthen the boom, whereby lengthening of the boom will swing it upwardly and shortening of the boom will lower it.

2,637,448
WRECKER
Ernest W. Holmes, deceased, late of Chattanooga, Tenn., by Samuel Bartow Strang, administrator, Chattanooga, Tenn., and Ernest W. Holmes, Jr., Chattanooga, Tenn., assignors to Ernest Holmes Company a corporation of Tennessee
Original application December 28, 1944, Serial No. 570,184, now Patent No. 2,479,009, dated August 16, 1949. Divided and this application June 14, 1949, Serial No. 99,095
3 Claims. (Cl. 212—58)



1. Hoisting apparatus comprising a frame, a mast mounted in the frame, a boom mounted on the mast, means including a sheave on the top of the mast and a cable cooperative therewith for raising and lowering the boom, a service cable extending over the upper end of the frame to the outer end of the boom, an idler sheave for the service cable, mounted on the upper end of the frame, a sheave bracket carrying said idler sheave and having a guide pivoted to swing on a substantially horizontal axis and which is controlled by the service cable, said bracket being mounted to rotate on a vertical axis, and means for supporting said guide in an elevated position to swing over the sheave on the top of the mast, but yieldable to permit downward swing of said guide under the tension of the service cable.
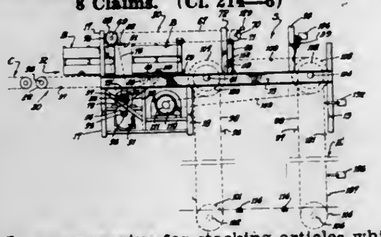
2,637,449
TRANSMISSION JACK
Clarence F. Hamer, Iowa City, Iowa
Application February 6, 1950, Serial No. 142,574
4 Claims. (Cl. 214—1)



1. A transmission jack comprising a pair of associated frame members relatively movable toward and from each other, means for effecting relative movement of said associated frame members, pairs of arms pivotally connected at their lower ends to said frame members, bars slidable through said frame members, said arms being interconnected at their other ends by a pivot whereby said pivot moves vertically upon relative movement of said frame members, a bar mounted on said pivot perpendicularly thereto, a table mounted on said bar, a bell crank mounted on one of said pivotally interconnected arms at a point spaced from the pivotal mounting of said bar, means connecting one arm of said bell crank with said bar, a link connecting the other arm of said bell crank with the other of said

pivotally interconnected arms at a point spaced from said interconnecting pivot, whereby said bar is maintained in such position that its longitudinal axis lies in a plane approximately perpendicular to said associated frame members even though it is tilted longitudinally, supporting means rigidly mounted on one of said arms, and a support pivotally connected to said table and said supporting means, whereby angular adjustment of said table in a direction transverse to said bar may be obtained, said support being adjustable to provide for leveling said bar.

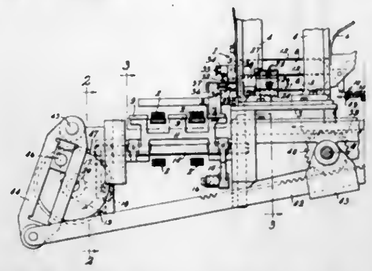
2,637,450
ARTICLE STACKING APPARATUS
Alvin Lenhert Eshelman, Upland, Calif.
Application October 14, 1949, Serial No. 121,242
8 Claims. (Cl. 214—6)



1. In an apparatus for stacking articles which includes an elevator, an article delivery station at the head of said elevator including trap mechanism for receiving an article and releasing it onto said elevator to form a stack of superimposed articles, and feed conveyor means including an overhead conveyor for advancing articles seriatim into said station: the improved trap mechanism which comprises members mounted at opposite sides of said station and adapted and arranged for horizontal pivotal movement about vertical axes between an extended position in which they project inwardly from opposite sides of said station, in which position they are capable of supporting an article delivered to said station, and a retracted position disposed closely adjacent the sides of said station, in which position they are incapable of supporting such article; an article stop in front of said station, said stop being biased so as normally to project into the path of articles advancing on said feed conveyor, means for supporting said stop for rotational movement whereby it may be rotated out of the path of advancing articles by such articles themselves, ratchet and pawl mechanism associated with said stop supporting means for engaging the latter and holding it against rotation, spring means urging said pawl against said ratchet to retain said box stop in article-intercepting position, an arm pivotally connected at one of its ends to said pawl, a rocker disposed in the path of said overhead conveyor to which the opposite end of said arm is connected, and a member carried by said overhead conveyor for contacting said rocker to effect release of said ratchet whereby said box stop is permitted to be rotated out of the path of an advancing box.

2,637,451
DEVICE FOR REMOVING CARDS FROM BETWEEN STACKED ARTICLES
Kenneth F. Newell, Longmeadow, Mass., assignor to Package Machinery Company, East Longmeadow, Mass., a corporation of Massachusetts
Application February 7, 1951, Serial No. 209,842
7 Claims. (Cl. 214—8.5)

1. A device for discharging rows of cigars or similar articles successively from a magazine and for discharging from the magazine separating cards, inter-leaved with the rows of articles, which comprises, receiving means movable from a position below the magazine to a position to receive the row of articles as the latter are discharged from the magazine, reciprocable pusher means for advancing the lowermost row of articles in the magazine onto the receiving means when the latter is in raised position, retaining means, actuating means carried by the receiving



means and positioned to engage said retaining means upon upward movement of the receiving means and move said retaining means into engagement with the card immediately overlying the lowermost row of articles and hold the same against movement by the pusher, said retaining means being released from said actuating means upon downward movement of the receiving means, and means carried by the pusher to withdraw said card rearwardly from the magazine upon the return movement of the pusher.

2,637,452
APPARATUS FOR LOADING HEAVY SPOOLS
Joel B. Fulton, High Point, N. C., assignor to R. L. Brinson Company, High Point, N. C., trading as Transport Apparatus and Device Company
Application May 28, 1946, Serial No. 672,737
5 Claims. (Cl. 214—10.5)

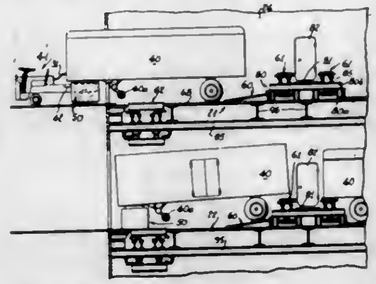


1. A rack for use in loading heavy spools, said rack having side bars adapted to engage the ends of spools in two superposed rows, and a sinuate inwardly projecting flange on each side bar, said flange adapted to bear against the periphery of the heads of spools in an upper and a lower row and track sections adapted to be positioned over said sinuate flange, each section extending from one crest to the next crest of said flange.

2,637,453
APPARATUS FOR LOADING TRUCK TRAILERS ON SHIPS
Henry D. Cleveland, New York, N. Y.
Application December 27, 1949, Serial No. 135,232
2 Claims. (Cl. 214—15)

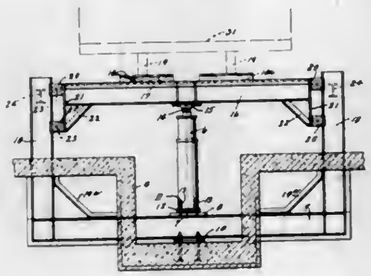
1. Apparatus for loading truck trailers upon a ship, moving the truck trailers from a loading to an unloading position on board ship, and unloading said truck trailers from the ship, said apparatus including a pair of conveyors on board

ship, one for supporting the front end, and the other for supporting the back ends of the trailers and for moving them from one position to another, the conveyor for the backs of the trailers being disposed at an elevated level relative to the front conveyor, a ramp adjacent the rear conveyor to facilitate raising the back ends of the trailers to the level of the rear conveyor, said ramp being lowerable to deposit the back ends of the trailers upon said rear conveyor, and to remove all load from the trailer springs and wheels,
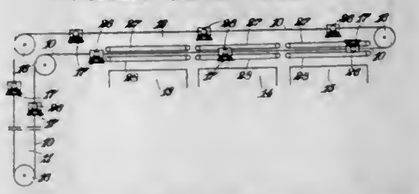


said ramp being raisable under said wheels to elevate the back ends of the trailers above the level of the rear conveyor for removal therefrom and to re-transfer the load from said conveyor to said wheels and springs, a portable supporting member between the surface of the front conveyor and the front end of each trailer to support said front end of the trailer on said front conveyor, said portable supporting member being provided with a fifth wheel which engages the kingpin of the trailer.

2,637,454
VEHICLE LIFT UNIT FOR DOCKS
Arthur E. Rowe, Cleveland, Ohio
Application November 5, 1948, Serial No. 58,490
1 Claim. (Cl. 214—38)



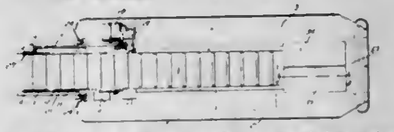
A truck frame lifting device of the class described comprising a substantially U-shaped frame, including spaced vertical guide members, and a transverse member, a lift beam extending between said guide members, guide means on said beam engaging said guide members, and a lift unit intermediate the transverse member aforesaid and the lift beam, said lift unit comprising an hydraulic ram, said ram being pivotally connected with the lift beam intermediate its ends, and connected with said transverse member by resilient means for limiting tilting movement of said ram.

2,637,455
ENDLESS CONVEYER
Frederick Gilbert Mitchell, London, England
Application February 27, 1951, Serial No. 212,843
In Great Britain April 25, 1950
7 Claims. (Cl. 214—46.24)



1. An endless conveyor comprising an endless movable carrier supporting at spaced intervals in its length platforms, each platform being adapted to receive, support and provide a locked engagement for a loaded wagon and being so pivotally articulated to the endless carrier as to be capable of being swung bodily, as a unit with the supported wagon, by rotation about its axis of pivoting to discharge the contents of the wagon, and mechanism for effecting the said rotation, the said mechanism comprising wheels concentric with the platform suspension pivots, movable chain-like elements located at positions where the platforms are to be rotated and arranged to engage the wheels and means for driving the elements so that when a platform is not required to be rotated the speed of the elements is the same as that of the conveyor carrier, there being then no relative movement between the elements and the carrier and that when a platform is to be rotated the speed of the elements differs from that of the conveyor carrier, thereby producing relative movement between the elements and the carrier, which will cause rotation of the platforms while the elements engage the wheels.

2,637,456
APPARATUS FOR RELATIVELY CONTINUOUSLY RECEIVING MATERIAL AND INTERMITTENTLY DISCHARGING THE SAME
Lloyd G. Felderman, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 18, 1948, Serial No. 60,738
15 Claims. (Cl. 214—83.14)



14. In a low height vehicle for receiving, storing and discharging material in underground mines, a mobile body of low height and of elongated generally rectangular shape, mobile supporting means for said body on which the latter is mounted in a relatively low position with its bottom located relatively close to the mine floor, said body having a material-receiving compartment of relatively large capacity extending lengthwise thereof throughout its length and for substantially its full height, an endless conveyor extending along the bottom of said compartment for aiding in the storing and distribution of material in said compartment and for discharging stored material from said compartment, said compartment having hopperlike sides extending

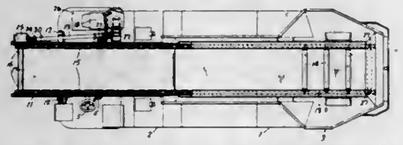
upwardly and laterally at the sides of said conveyor out to the full width of said body, and adjustable plate means arranged on said body at the sides of said conveyor near one end portion of the latter and when in operative position closely overlying the top run of said conveyor portion, said plate means when in retracted, inoperative position disposed at the sides of said conveyor below the hopper-like sides of said compartment, said plate means movable inwardly into said operative position within said compartment wherein said plate means overlies said conveyor to completely shroud the top run of said conveyor along said end portion of the latter, the unshrouded portion of said conveyor substantially exceeding in length the length of the shrouded portion and being operable to discharge material stored in said compartment longitudinally beyond said plate means from said compartment at one end of said compartment, and said plate means when in shrouding position receiving material discharged into the opposite end of said compartment whereby the latter may store material during such discharge of the material by said unshrouded portion of said conveyor.

2,637,457

MATERIAL RECEIVING, STORING, AND DISCHARGING APPARATUS

Arthur Lee Barrett, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 9, 1948, Serial No. 37,943
11 Claims. (Cl. 214—83.36)



1. In an apparatus of the character described, including a body for receiving and storing material and having a discharge portion connected at its inner end to said body and through which discharge portion stored material is adapted to be discharged, an endless flight conveyor having an upper run extending through said body and said discharge portion, for distributing material delivered to said body in the latter and for effecting discharge of material from said body through said discharge portion, and driving means for said conveyor for effecting circulation thereof, the improvement which consists in that said endless flight conveyor is provided with flights throughout but a portion of its circuit and, in a predetermined position thereof, relative to said body and said discharge portion, has along its upper run flights only adjacent the forward end of said discharge portion and adjacent the end of the body remote from the discharge portion, but elsewhere along its circuit is provided with flights.

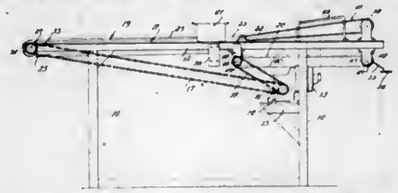
2,637,458

EGG HANDLING APPARATUS

Edward W. Fahey, Chicago, Ill., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware

Application June 12, 1948, Serial No. 32,566
17 Claims. (Cl. 214—300)

1. Egg handling apparatus comprising a conveyor adapted to transport egg-containing fillers, said conveyor comprising a plurality of parallel, flexible, laterally spaced, endless conveyor members extending longitudinally of the apparatus and means mounting said conveyor members to present sets of upper, article supporting reaches which are spaced vertically in two levels relative



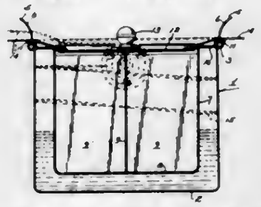
to one another, the reaches of said respective sets alternating in their disposal transversely of the apparatus and being adapted to support said filler and eggs, respectively, and means to drive said conveyor members longitudinally.

2,637,459

DOUBLE BOILER COOKING UTENSIL

Olga F. Jordan, Chicago, Ill.

Application December 4, 1950, Serial No. 198,996
1 Claim. (Cl. 220—13)



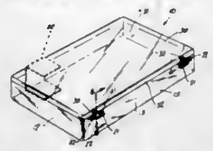
In a double boiler, an outer container having a rounded rim, oppositely disposed keepers carried by said rim and extending upwardly and curved outwardly therefrom, oppositely disposed staggered slots formed in said keepers, an inner container received within said outer container and defining a liquid compartment therewith, a flange upon said inner container, the free edge of said flange rounded complementary to said rim for disposal thereupon, partitions in said inner container dividing same into compartments, a cover for said container adapted to rest upon said flange free edge, and oppositely disposed twin ears carried by said cover for disposal selectively in said keeper slots.

2,637,460

CONTAINER HAVING A HINGED COVER

Cyril J. Yates, Henderson, Ky., assignor to Tri-State Plastic Molding Co., Henderson, Ky., a limited partnership

Application May 2, 1951, Serial No. 224,165
7 Claims. (Cl. 220—31)



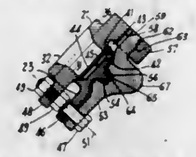
1. A sealable box comprising, in combination, a body having a base and boundary walls, one of said walls having projecting therefrom at least a pair of female hinge sets, each set comprising a pair of resilient strap elements spaced laterally from each other to provide a slot therebetween, and said elements being shaped to provide diametrically oppositely facing coaxially elongated and substantially semi-cylindrical hinge pintle bearing surfaces, and a cover comprising a flat portion substantially congruent with said base, said cover having projecting therefrom at least a pair of ribs spaced from each other to align with such slots, said ribs lying in planes substantially normal to that of said flat portion and extending from said cover substantially parallel to said flat portion, and each rib having projecting from opposite sides thereof coaxial substantially cylindrical hinge pintles, the outer ends of said elements being so related as to provide a circumferential discontinuity in the pintle bearing surfaces of less extent than the diameter of said pintles, said cover being assembled to said box by inserting the ribs into said slots and engaging said pintles in said bearing surfaces by spreading of the outer ends of said elements.

2,637,461

CLOSURE UNIT FOR CHAMBER WALL OPENINGS

Frank X. Gilg, Chatham, and John C. Singleton, Jr., Watchung, N. J., assignors to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application July 17, 1946, Serial No. 684,374
4 Claims. (Cl. 220—33)



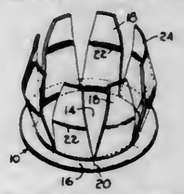
1. A closure unit comprising a frame formed with an opening therein and providing a door seat peripherally of said opening in a plane transverse to the axial extent of said opening, a door for said opening slidably movable with respect to said seat, said door including a body portion of symmetrical formation about a central axis and arranged to engage said seat throughout the perimeter of said opening in the closed position of said door, a door operating bar for moving said door, means at one side of said door seat pivoting said bar for movement of said door parallel to the plane of said seat, said door having an arm pivoted on said pivoting means for movement in a plane also parallel to said door seat whereby said bar and said arm are pivoted about a common pivotal axis, means continuously coupling said bar to said door to effect door opening and closing movement directly in response to pivotal movement of said bar, means including said bar for continuously preventing displacement of said door longitudinally of said pivotal axis, and stationary means on said frame engageable by said bar in the closed position of said door for applying a force to said door clamping said body portion against said seat, said coupling means connecting the inner face of said bar to the outer face of said door and being centrally arranged with respect to said body portion for transmission of said clamping force along said central axis, said means coupling said bar to said door being formed as a pin-and-socket connection comprising a pin of circular cross-section projecting axially outwardly from the body portion of said door and received in a circular socket formed in said bar, said pin having an axial length greater than the depth of said socket and contacting only the base of said socket while maintaining all other portions of said door spaced from said bar.

2,637,462

CLOSURE MEMBER

Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 21, 1949, Serial No. 88,795
4 Claims. (Cl. 220—42)



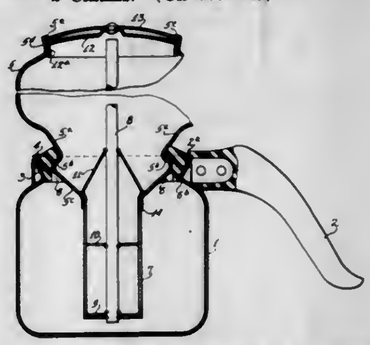
1. A closure member for closing an opening in a support, said closure member being formed of a single piece of sheet metal, and comprising a base, the outer periphery of the base being turned back on itself forming a continuous inwardly extending flange, a series of resilient support-engaging legs integral with the flange and extending upwardly therefrom, and a single line of weakness extending into the flange from between each adjacent pair of legs, said lines of weakness extending radially outward from the inner edge of the flange.

2,637,463

COOKING UTENSIL

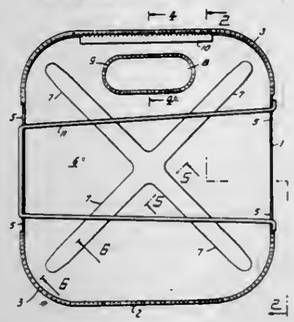
Otto M. Burkhardt, Euclid, Ohio

Application July 2, 1948, Serial No. 36,675
2 Claims. (Cl. 220—46)



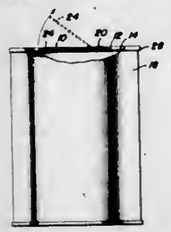
2. A cooking utensil, comprising a container having an open top with a downwardly and inwardly inclined annular shoulder, the inner surface of said shoulder being of concave form throughout the entire height thereof and corresponding to a section of a sphere, the upper edge of said shoulder having a plurality of rigid inward projections and another projection all located approximately equi-distant apart from each other, and a closure having an annular resilient sealing gasket projecting radially therefrom for successive engagement beneath said rigid projections and said other projection, respectively, the outer surface of said sealing means being of spherical form adapted for effective engagement with the spherical inner surface of said shoulder.

2,637,464
CONTAINER AND CLOSURE THEREFOR
William Martin Vogel, Jr., Mendham, N. J., assignor to Standard Container, Inc., Rockaway, N. J., a corporation of New Jersey
Application February 29, 1952, Serial No. 274,105
3 Claims. (Cl. 220—72)



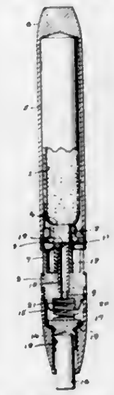
2. A metal container which comprises a seamless open-top, shallow rectangular shell, at least one pair of slotted openings in each of two opposite side walls of the shell, a closure plate of slightly smaller overall dimensional area than the container shell, an elongated opening situated near the top of the closure plate to provide a handle therefor, and a U-shaped spring wire equipped with outwardly flared ends which is capable of compression and extension inwardly through a pair of slotted openings in one side wall of the container shell across the upper surface of the closure plate and outwardly through a pair of slots in the opposite side wall of the container shell.

2,637,465
CAN TOP HANDLE
Edward S. Fisher, Billings, Mont.
Application December 16, 1949, Serial No. 133,273
1 Claim. (Cl. 220—94)



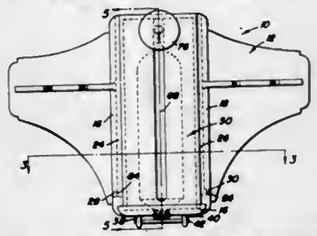
In combination with a metallic can including a cover permanently fixed thereto and having a flat exterior surface, handle means comprising a flat bendable metallic strip having first and second ends and an intermediate portion, said first end having a centrally apertured enlarged portion, a solder bond extending through said aperture and permanently fixing said first end to the exterior surface of said cover, said enlarged portion being disposed eccentrically of the cover and in relatively close proximity to the marginal edge of said can, said intermediate portion being of a reduced width adjacent said first end whereby said handle means will bend at the point of reduced width, and an integral depending projection carried by each longitudinal edge of said strip, each projection being disposed adjacent said second end, said strip being of a length so that when bent upon itself said second end overlies the marginal edge of said cover to prevent the cover from falling into the can when severed.

2,637,466
POCKET MARKING PEN
Donald C. Wright, St. Petersburg, Fla.
Application April 12, 1949, Serial No. 86,923
2 Claims. (Cl. 222—80)



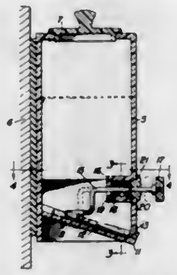
1. In a fountain pen, the combination with a head having a central feed tube terminating in an enlarged head having radial openings, a bushing of elastic material surrounding the tube, and an externally threaded spaced and concentric collar forming a chamber about the bushing, of a rigid hollow ink cartridge having a reduced neck, a removable stopper seated in the neck and resting on the enlarged head, and a cap sleeve having an internally threaded end for screwing on the collar.

2,637,467
COLLAPSIBLE TUBE HOLDER WITH TUBE COLLAPSING MEANS AND BRUSH SUPPORTS
Anthony J. Campagna, Pontiac, Ill.
Application November 21, 1949, Serial No. 128,600
2 Claims. (Cl. 222—93)



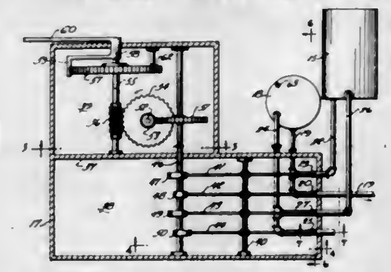
1. A dispensing device including a bracket having a back plate and a pair of forwardly extending side plates secured to said back plate medial the ends thereof, the opposed faces of said side plates having vertically extending grooves therein, a base plate connected to said back plate, a threaded aperture in said base plate, a casing having rearwardly extending sides connected by an arcuate central portion, said sides having vertically extending tongues thereon detachably engaged in said grooves, a vertically extending slot in said central portion, tube collapsing means having an operating handle extending slidably through said slot, and horizontally extending flanges secured to said sides of said casing having recesses opening into the front edges thereof for receiving and supporting toothbrushes.

2,637,468
TOOTH PASTE DISPENSER
Adam Wekerle, St. Louis, Mo.
Application November 14, 1950, Serial No. 195,603
1 Claim. (Cl. 222—328)



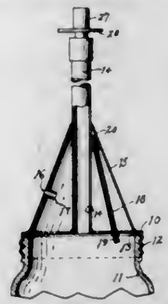
A tooth paste dispenser comprising a container having a V-shaped bottom formed with a forwardly sloping channel at the center of the bottom, a discharge spout at the lower portion of the channel and projecting outwardly at the lower portion of the container, a plunger slidable in the channel and provided with a reduced stem having a working fit in the spout, said container having an aperture adjacent the spout, and push button operating means for the plunger slidably mounted in said aperture and projecting outwardly of the container above and adjacent the spout to extrude contents of the container from the spout, said push button operating means including a forwardly and rearwardly slidable rod having its inner end pivoted to the rear end of the plunger to retract the plunger to admit paste into the spout upon an inward movement of the rod, and spring means urging the rod forwardly and subjecting the plunger to its dispensing stroke.

2,637,469
MECHANICAL APPARATUS TO INJECT FLUIDS INTO WELLS IN BATCHES
James A. Clay, Jr., Fort Worth, Tex.
Application October 26, 1948, Serial No. 56,506
3 Claims. (Cl. 222—442)



1. A liquid feeding apparatus comprising an upstanding support, a storage tank mounted upon said support, a metering tank arranged below said storage tank, a first conduit having one end connected to the lower portion of said metering tank and having the other end adapted for connection to a confined space, a second conduit having one end connected to the lower portion of said storage tank and having the other end connected to said first conduit adjacent said one end thereof, a third conduit having one end connected to the upper portion of said metering tank and having the other end adapted to communicate with the atmosphere, a fourth conduit having one end connected to the upper portion of said storage tank and having the other end connected to said third conduit intermediate the ends of the latter, a first openable and closable valve in said first conduit intermediate the ends thereof, a second openable and closable valve in said second conduit intermediate the ends thereof and positioned in aligned lateral relation with respect to said first valve, a third openable and closable valve in said third conduit intermediate the ends thereof and positioned in aligned lateral relation with respect to said second valve, a fourth openable and closable valve in said fourth conduit intermediate the ends thereof and positioned in aligned lateral relation with respect to said third valve, a rotatable shaft, first, second, third and fourth cams arranged in spaced relation along and carried by said shaft, said first and third cams being identical in phase and being connected respectively to said second and fourth valves to simultaneously open and close in sequence the latter valves, said second cam being of a different phase than said first and third cams and being connected to said first valve to open and close in sequence the latter valve after the sequential opening and closing of said second and fourth valves, said fourth cam being of a different phase than said second cam and that of said first and third cams and being connected to said third valve to open and close in sequence the latter valve after the sequential opening and closing of said first valve.

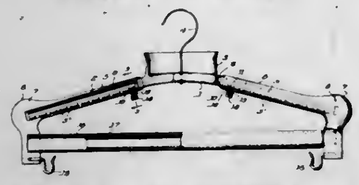
2,637,470
VENTED FLUID DISPENSING CONTAINER
Harold Wolcott, Burlingame, Calif.
Application May 12, 1951, Serial No. 226,012
3 Claims. (Cl. 222—481)



1. In a fluid dispensing device, the combination of a container having an open top, a closure member for the open top of said container having an outwardly extending tubular fluid discharge pipe communicating with the interior of said container when said closure member is applied thereto, a vent pipe carried by said closure member extending outwardly along and adjacent said fluid discharge pipe and also communicating with

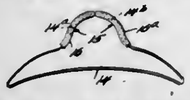
the interior of said container at a point above any fluid therein when in an upright position, means forming an air chamber externally of said container into which the extending end of said vent pipe is enclosed, said air chamber having a vent opening positioned remote from the extending end of said vent pipe, and a valve means carried by said discharge pipe disposed outwardly beyond the extending end of said vent pipe and said air chamber, whereby upon inversion of said container said vent pipe will siphon back into said container any fluid which may have accumulated in said air chamber.

2,637,471
ADJUSTABLE COAT HANGER
Herbert A. Goldschmidt and Peter J. Leverence, Chicago, Ill.
Application February 19, 1952, Serial No. 272,294
3 Claims. (Cl. 223—89)



1. A garment hanger, comprising a body having relatively opposed tubular shanks extended therefrom, tubular members telescopically receiving the opposed free portions of the shanks therein, said shanks having longitudinal slots formed in certain of their sides and pockets in said sides offset from said slots and communicating therewith, said tubular members being rotatable on the shanks telescopically received therein transversely of their longitudinal axes, and pins slidably engaged through portions of each of said tubular members and in and through the longitudinal slots in their respective shanks selectively enterable into said pockets upon sliding movement of the tubular members to predetermined positions on their respective shanks and collective rotation of the members and pins transversely of their shanks.

2,637,472
TRY-ON GARMENT HANGER
Leonadus R. Lyons, Billings, Mont.
Application November 1, 1949, Serial No. 124,819
1 Claim. (Cl. 223—92)

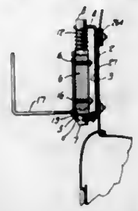


A try-on garment hanger adapted to support a dress or similar garment in draped relation on the figure of a person, said garment hanger comprising a bow member of rigid material for supporting the dress and being of a length sufficient to extend between the armholes of the dress, said bow member having an upper longitudinal edge the outer portions of which are convexly curved and a lower concavely curved longitudinal edge, and said bow member being curved out of its bodily plane so as to conform approximately to the curvature of the chest of a person between the shoulders, and a collar projecting upwardly from the upper longitudinal edge of the bow member at the central portion thereof, said collar being composed of springy material and normally curved to encircle the sides and back of the neck of a person and support the bow member at approximately chest-high elevation upon the person and said collar having one end anchored to the bow member and being freely flexible to permit placing the collar around the neck.

2,637,473

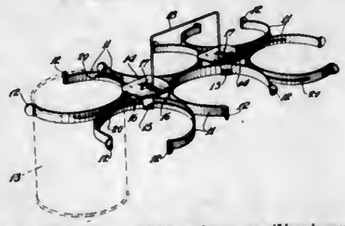
WITHDRAWN

2,637,474
CARRIER BRACKET FOR TRUCKS
Casey Di Vincenzo, East Cleveland, Ohio
Application January 3, 1951, Serial No. 204,253
8 Claims. (Cl. 224—42.45)



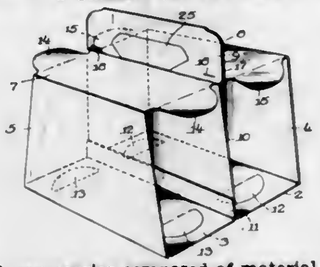
1. In a bracket unit of the class described in combination, a U-shaped mounting member including a body portion and a pair of flanges having openings therein, a post having a body member formed with cylindrical portions at opposite ends seated in said openings, a spring carried by one of said last named portions and engaging one of said flanges and yieldingly pushing the post toward the other flange, and a locking plate adjacent the other cylindrical portion and interlocking with a portion of the post under the action of said spring, seated on the other of said flanges, a bracket connected to the middle of body member aforesaid, and means for mounting the said unit on a vehicle.

2,637,475
CARRIER
Joseph Gialanella, Newark, N. J.
Application December 28, 1949, Serial No. 135,338
5 Claims. (Cl. 224—45)



1. A carrier comprising four resilient arcuate clips, each having outwardly disposed ends, a plate, four legs extending from the plate and each leg attached to one of the four clips, two additional resilient arcuate clips each also having ends in corresponding outward disposition another similar plate having legs attached to two of the clips which were attached to the first plate and to the two additional clips, and a common handle pivotally attached to each of the plates.

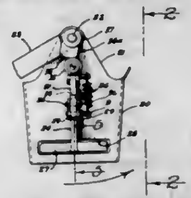
2,637,476
CAN CARRIER
Frederic D. Empkie, Jr., Sioux City, Iowa, assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 24, 1950, Serial No. 181,275
2 Claims. (Cl. 224—45)



1. A can carrier composed of material such as paperboard and comprising, a pair of parallel can receiving compartments separated by a centrally disposed partition and a top wall over each compartment, the inner edges of the top walls terminating adjacent to the opposite faces of said partition, a pair of handle flanges, one extending upwardly from each of the inner edges of said top walls and being joined to the respective top walls along score lines substantially parallel to one another and being foldable together about said score lines from a position where they extend substantially vertical to the planes of the top wall to a position where planes of the flanges and the planes of the top walls are parallel, said handle flanges having a height not exceeding the distance from the central partition to the side wall, the said partition having a handle reinforcing portion hinged to the partition along its upper end on a line adjacent and parallel to the handle flange score lines and extending upwardly between said upwardly extending handle flanges for reenforcement of the handle, fastening means passing through and between said handle flanges for relatively permanently securing the same together, said partition portion being formed with a pair of spaced openings located above the hinge line connecting the handle reinforcing portion and each including a downwardly facing edge overlying and in spaced relation to said fastening means, said partition portion and said edges being relatively freely movable downward and upward between predetermined limits and between said handle flanges relative to said fastening means, whereby said handle flanges are secured together and said partition portion is disposed therebetween without direct penetrating engagement by said securing means and whereby said handle may be folded into parallel relation with respect to said top walls without tearing said partition portion.

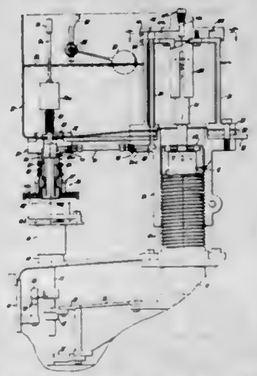
2,637,477
FILLING AND HOLDING DEVICE FOR CONTAINERS
Frank Phillip Tucker, Pomona, Calif., assignor, by mesne assignments, to Brogdex Company, Pomona, Calif., a corporation of California
Application August 5, 1949, Serial No. 108,670
3 Claims. (Cl. 226—59)

1. In combination, a bag filling spout adapted for the reception of an open mouth bag, arms for supporting said spout above a depending bag, said spout being pivotally mounted on said arms for movement between a bag filling position in which said spout is disposed substantially vertically and a bag receiving or discharging position in which it is inclined to the vertical, clamping means carried by said spout each including a lever pivotally supported adjacent opposite sides of said spout and each having a free end adapted and arranged for movement into and out of clamping engagement therewith, a second lever connected at one of its ends to said first lever, a cam follower



secured to the opposite end of said second lever, and a cam secured to said spout supporting arms, said cam follower being yieldingly held in engagement with the surface of said cam whereby pivotal movement of said spout between its alternate positions causes said cam follower to roll along the surface of said cam and to effect a movement of said second lever longitudinally of said spout whereby said clamping lever is pivoted into and out of clamping engagement with said spout.

2,637,478
FILLING MACHINE AND VALVE THEREFOR
Leonard McGihon, Oakland, Calif., assignor to King Sales & Engineering Co., San Francisco, Calif., a corporation of California
Application May 1, 1948, Serial No. 24,525
5 Claims. (Cl. 226—102)



1. In a filling machine, a substantially vertical cylinder structure normally open for admission of liquid at its upper end and comprising an upper stationary part and lower movable part telescopically engaged therewith, said movable part having a valve seat at its lower end, spring means urging said movable part downwardly, a valve and piston structure movably mounted within said cylinder structure for selective positioning in relative adjusted positions thereof and having a valve engaged by said valve seat under the urgency of said spring means, passage means in one of said structures for conducting fluid

past said valve and piston structure in one relatively adjusted position of said structures in which said valve is engaged with said seat, said structures having cooperating surfaces operative to close said passage means in a second relatively adjusted position of said structures in which said valve and said valve seat remain closed, said structures having respective other passage means therein and disposed in cooperative relation in a third relatively adjusted position of said structures to place a container engaged with said movable part in communication with a source of vacuum, said valve seat part being movable from said second position to separate from said valve.

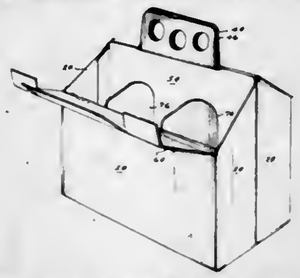
2,637,479
EGG CARTON
John W. Cox, Chicago, Ill., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application March 28, 1947, Serial No. 737,892
1 Claim. (Cl. 229—2.5)



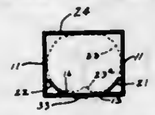
A molded pulp carton comprising a bottom section having upstanding walls, a cover section hingedly attached to the bottom section and foldable thereover into closing relationship, said cover section comprising a top panel having pairs of opposed walls extending therefrom, gussets integrally molded in two opposed walls of said cover section at the juncture of said walls and another cover section wall extending angularly therebetween, said gussets permitting at least one of said cover section walls to normally extend at a substantial outwardly divergent angle to said top panel, and being inwardly foldable for swinging of said other wall along its line of juncture with said top panel to a position of greater verticality in the closed than in the open position of the sections, said cover section walls having marginally abutting engagement with the bottom section walls in said closed position.

2,637,480
PAPERBOARD CARRIER
Homer W. Forrer, Atlanta, Ga., assignor to Atlanta Paper Company, a corporation of Georgia
Application October 2, 1950, Serial No. 187,995
6 Claims. (Cl. 229—27)

1. A paperboard carrier structure comprising a bottom wall, opposed side walls foldably joined to said bottom wall, end wall half-laps foldably joined at the side edges of said side walls and extending therefrom, medial full-laps secured to the extending edges of both end wall half-laps joined to each of said side walls, whereby said full-laps are positioned in back-to-back relation to serve as a medial panel from which said carrier may be suspended for carrying, both of said medial full-laps being formed with handle tabs at their top edges, one of said full-laps having a bottom edge extending downwardly to said bottom wall and the other of said full-laps having a bottom edge terminating short of said bottom wall, a first auxiliary panel of substantially coextensive proportions foldably joined at the bottom edge of said other full-lap, a second auxiliary panel foldably joined to said first auxiliary panel at the edge thereof remote from said other full-lap, a slot being formed at the joined edges of said first and second auxiliary panels and receiving said handle tabs, whereby said auxiliary panels are folded over said full-laps thus securing them in back-to-back relation, and cover flaps foldably joined at the top edges of said side walls and formed with tongues at their remote edges for insertion in said slot at each side of said handle tabs.



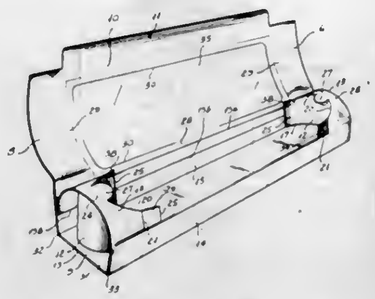
2,637,481
DISPLAY CARTON FOR FRUITS AND VEGETABLES
Carl Adams, Sr., Birmingham, Ala.
Application July 5, 1949, Serial No. 102,965
3 Claims. (Cl. 229—30)



1. In a display carton for fruits, vegetables and like objects, a relatively shallow rectangular open top box formed of a single sheet of material and embodying a bottom panel and end and side walls, there being an opening in said bottom panel of a size to expose to view a substantial portion of the lower surface of the objects in said box, and upwardly and outwardly extending flaps formed integrally with the bottom panel and joined to the edges of the material forming said opening with their free ends resting against the side walls of said box.

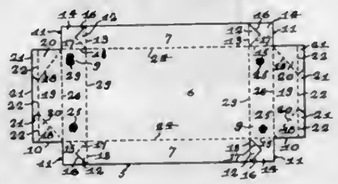
2,637,482
ONE-PIECE COVERED CONTAINER
Frank W. Broderick, Summit, N. J., assignor to Berlex Carton Company, Inc., a corporation of New Jersey
Application July 15, 1950, Serial No. 174,108
7 Claims. (Cl. 229—30)

1. A container formed from a one-piece blank and comprising a tray adapted to receive globular products and a cover for said tray connected thereto, said tray having side and bottom walls with said bottom wall connecting said side walls together, said tray having an upper wall connecting said side walls together at their upper ends and at the ends of said tray, end walls for said body and constituting integrants of said upper wall and being folded relative to said upper wall along arcuate fold lines to dispose said end walls downwardly from said upper wall and in engagement with said bottom wall, said end walls extending upwardly from said bottom wall and being outwardly bowed and provided with wings engaging said side walls and urged thereagainst by said products when said cover is in open position,



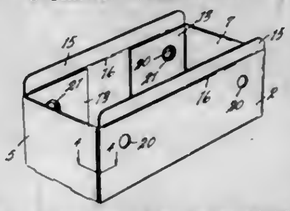
said cover being provided with a tongue disposed against the inner face of one of said side walls and between said last mentioned wall and the adjacent wings when said cover is in closed position whereby the latter wings and wall cooperate to restrain said tongue therebetween.

2,637,483
FOLDED BLANK BOX
David H. Shapiro, Montreal, Quebec, Canada
Application July 28, 1951, Serial No. 239,049
3 Claims. (Cl. 229—31)



1. A box blank of the character described comprising a sheet of flexible material creased to define a bottom wall section, a side wall section hinged to each of the side edges of said bottom wall section, an outer end wall section hinged to each of the end edges of said bottom wall section, an inner end wall section of substantially the same dimensions as an outer end wall section hinged to each of said outer end wall sections, a plurality of relatively movable locking flap sections with their adjacent ends in abutting relation with respect to each other hinged to each of said inner end wall sections along an edge thereof which is parallel to the adjacent end edge of said bottom wall section, each inner end wall section being provided with a pair of diagonal crease lines extending thereacross and converging towards the edge of the inner end wall section to which the locking flap sections are attached and each of said crease lines intersecting a line of juncture between abutting ends of adjacent locking flap sections at said edge of the inner end wall section, and foldable corner sections joining the ends of each outer end wall section to the adjacent ends of the side wall sections.

2,637,484
COLLAPSIBLE CARTON
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application August 19, 1949, Serial No. 111,318
3 Claims. (Cl. 229—34)

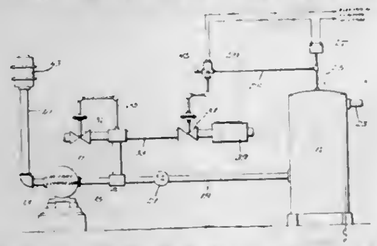


1. A carton formed of an integral blank and comprising a bottom, side walls hingedly connected to the bottom, end walls comprising outer end wall members hingedly connected to the bottom and inner end wall members hingedly connected to the outer ends of the outer end wall members, the side walls having corner flaps hingedly connected to the ends thereof and adapted to be disposed on the inner sides of the outer end wall members when the carton is erected, the inner end wall members being folded inwardly over the corner flaps in retaining relation thereto with their ends in supporting relation to the side walls, said inner end wall members having inner side wall members of a height corresponding to the height of the side walls hingedly connected to their ends and positioned against the inner sides of the side walls in supported relation to the bottom, the inner end wall members being provided with locking tongues on their outer edges, there being slits at the juncture of the outer end wall members with the bottom retainingly receiving said tongues when the box is erected, the said side walls being provided with cover supporting top flaps on their upper edges foldable inwardly over the upper edges of the said inner side wall members and in supporting engagement with said upper edges, and a cover adapted to be positioned over said top flaps in support relation thereto and provided with end flaps inserted between the ends of the top flaps and said inner end wall members with the side edges of the cover end flaps in supporting engagement with the said inner side wall members, said side walls and inner side wall members being provided with ventilating openings which register when the container is erected.

2,637,485
UNLOADING SYSTEM FOR COMPRESSORS
Charles Yeomans, Hubbard Woods, Ill., assignor to Yeomans Brothers Company, Chicago, Ill., a corporation of Delaware
Application October 30, 1946, Serial No. 706,593
1 Claim. (Cl. 230—22)

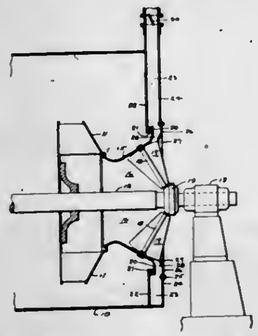
In a system of the class described for supplying a variable demand of compressed air, the combination of an air compressor which operates continuously regardless of whether or not compressed air is demanded, said compressor having an outlet connection and an inlet connection which is in communication with the atmosphere, an air receiver for maintaining the pressure of the air which is supplied by said compressor, an air main connecting said compressor outlet with said receiver, a uniflow valve in said air main intermediate said compressor outlet and said air receiver, an unloading main connected to said air main

intermediate said compressor outlet and said uniflow valve, said unloading main being of sufficient size to carry the entire output of said compressor without building up any substantial back pressure at the compressor outlet, an air-operated valve in said unloading main which is adapted to connect said unloading main to the atmosphere without substantial throttling of the air flow through said main, a pilot pipe line connecting said air receiver with said air-operated valve, an electrically actuated valve in said pilot line for



controlling the air supplied to said air-operated valve, and an electric switch for opening and closing the circuit to said electrically actuated valve which is responsive to variations in the pressure in said air receiver whereby the entire output of said air compressor is vented to the atmosphere whenever the pressure in said air receiver is above a predetermined value and the entire output of said air compressor is directed to the air receiver whenever the pressure in said air receiver is below a predetermined value.

2,637,486
FAN
William H. Taylor, Jr., Dedham, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 29, 1951, Serial No. 264,159
7 Claims. (Cl. 230—47)



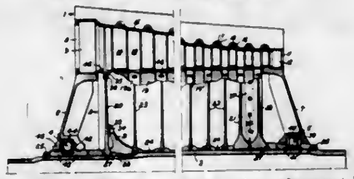
1. In a fan having a fan wheel and an inlet shroud forming a converging axial inlet passage for primary air into the wheel, and spin vanes pivoted in said passage on axes oblique to the axis of the wheel, the combination of means forming a secondary air passage extending circumferentially around said inlet passage, and means forming a circumferentially extending constricted outlet from said secondary passage into said converging passage, said vanes having outer portions extending across said constricted outlet.

2,637,487
BLOWER
James G. Sawyer, Williamsville, N. Y.
Application March 9, 1948, Serial No. 13,820
4 Claims. (Cl. 230—120)



3. A straightening stator vane for an axial flow blower comprising a generally concavo-convex member having a shallow cut in its convex surface starting intermediate the leading and trailing edges of said surface and terminating substantially at the leading edge thereof, spaced projecting, integral, parallel ribs extending from the leading edge of the convex surface towards a point intermediate the leading and trailing edges and terminating by gradually and smoothly merging at such point into the convex surface, and a thin plate portion having a curvature substantially complementary to the convex surface of said member overlying the convex rib surfaces and bridging across the space between said ribs, to form a passageway for air therethrough.

2,637,488
COMPRESSOR
Lee M. Krouse, Kenmore, N. Y., Jess H. Nourse, Fort Erie, Ontario, Canada, and Helmut R. Katzmann and Fred A. Howard, Buffalo, N. Y., assignors to Fredric Flader, Inc., Buffalo, N. Y.
Application June 13, 1946, Serial No. 676,416
5 Claims. (Cl. 230—122)



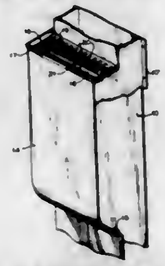
1. A stator element and a rotor element, one of said elements comprising a tubular body composed of ring-like sections each having its opposite margins telescopically fitting the margins of adjacent sections, and blades carried by said body and having anchoring shanks extending through openings in the overlapped margins for securing the sections against axial displacement.

2,637,489
BLOWER WHEEL CONSTRUCTION
Charles I. Place, Norfolk, Conn.
Application February 19, 1949, Serial No. 77,310
8 Claims. (Cl. 230—134)



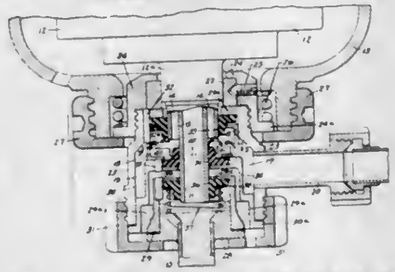
5. A displacement device for fluids such as air, comprising displacement blades arranged in an annular series, a ring plate engaging corresponding ends of the blades, a support member engaging the opposite corresponding ends of said blades, and bracing elements between the ring plate and support member, each of said bracing elements extending substantially diagonally between an adjacent pair of said displacement blades.

2,637,490
CIGARETTE CHUTE
Louise E. Harris, Macon, Ga.
Application July 18, 1949, Serial No. 105,299
1 Claim. (Cl. 232—43.1)



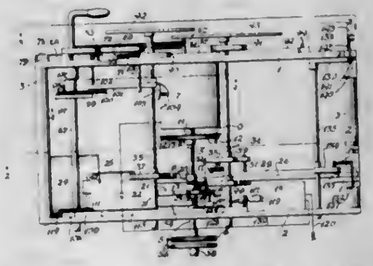
Disposal means comprising an open top receptacle having sides and end walls, an upwardly and outwardly projecting narrow guard secured to the top of said receptacle along one side and both end walls of the receptacle for directing disposable material into the same, a grill projecting inwardly from the top of the other side wall of the receptacle and terminating in downwardly directed portion spaced from the said one side wall, said grill having slots extending from said one side wall toward said downwardly directed portion, said grill having a continuous bar portion at its terminus extending between and filling the space between said end walls, an inwardly and downwardly projecting lip extending from the said one side wall toward the bar portion of the grill and terminating a distance from the latter an amount substantially greater than the width of said slots to permit the disposal of larger material.

2,637,491
SEALING MEANS FOR FEED AND DISCHARGE CONDUITS OF CENTRIFUGAL SEPARATOR BOWLS
Harold C. Fitzsimmons, West Chester, Pa., assignor to The Sharples Corporation, a corporation of Delaware
Application February 4, 1950, Serial No. 142,376
7 Claims. (Cl. 233—21)



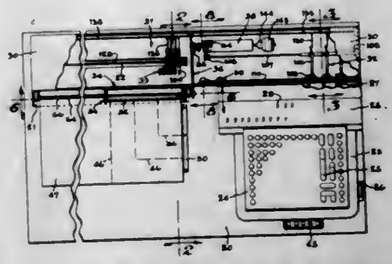
1. The combination comprising a cylindrical-shaped object, an elastic sealing member having an annular portion surrounding and engaging said cylindrical-shaped object, a chamber about said sealing member, said sealing member having a portion extending laterally outward from and around a section of said annular portion, said laterally extending portion of said sealing member engaging a surface of said chamber to form with said annular portion a seal between said cylindrical-shaped object and said chamber, means causing rotation in said chamber of liquid about the axis of said cylindrical-shaped object, and baffles in said chamber positioned about said annular portion of said sealing member and transversely of the rotation of said liquid to reduce the rotation of said liquid about said sealing member.

2,637,492
TAXIMETER
Ronald Winch, Winnipeg, Manitoba, Canada, assignor of one-third to William Sivak and one-third to Richard Wunsch, both of Winnipeg, Manitoba, Canada
Application April 25, 1947, Serial No. 743,918
9 Claims. (Cl. 235—30)



1. An electrically energized fare indicating meter for taxicabs comprising in combination, an electrically energizable unit, having a source of power in circuit therewith, a primary dial actuating unit connected to said electrically energizable unit, a road-wheel coupled drive-shaft, a conventional clock-movement, a drive-shaft coupled thereto, over-riding clutch means coacting between said shafts, an associated circuit closing component operably connected to said clock-movement and to said road-wheel coupled drive shaft and a manually operated main switch in said circuit.

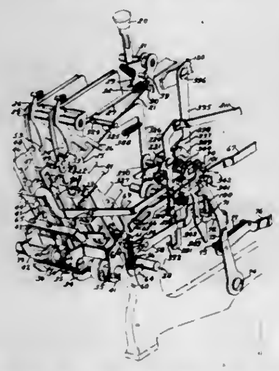
2,637,493
AUTOMATIC PRINTING APPARATUS FOR CALCULATING MACHINES
Carlos Wittenmyer, Lebanon, Ohio
Application August 29, 1950, Serial No. 182,071
13 Claims. (Cl. 235—60.31)



2. In combination with a calculating machine having a plurality of rotatable result dials bearing figures to indicate visually the result of a calculation, an attachment adapted to be installed upon a calculating machine to operate in conjunction with the machine to print automatically the results successively upon a transversely ruled record sheet, said attachment com-

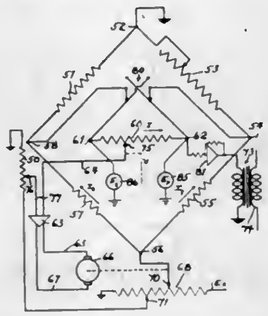
prising, a plurality of shiftable type bearing elements, each having type figures corresponding to the figures carried by the result dials, mechanical means connecting the type elements to the said dials individually to advance the type figures to positions to print the result displayed by the dials, an electrically operated printing device associated with each of said type elements and arranged to impress the said type figures upon the record sheet, an electrical control system interconnected with the calculating machine, the said control system including mechanical sheet feeding means, an electric motor in driving connection with the mechanical feeding means for advancing the record sheet longitudinally to present a ruled portion thereof to the printing elements, the electrical control system having switches adapted to energize the said printing devices automatically upon advancement of the sheet to the printing position, the said electrical control system and said mechanical feeding means being constructed and arranged after printing to retract the printed sheet for a distance less than the advancement thereof and thereby to advance the ruled portions in stepwise fashion to the printing elements.

2,637,494
AMOUNT ENTERING MEANS FOR ACCOUNTING MACHINES
Arthur J. Fettig, Grosse Pointe Farms, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application March 24, 1950, Serial No. 151,641
7 Claims. (Cl. 235—60.47)



1. In an accounting machine having means to drive it through cycles of operation, calculating mechanism, printing mechanism, manipulative amount setting means, a plural order differential mechanism controlled in a machine cycle by said amount setting means to enter amounts determined by the latter into said calculating and printing mechanisms, and a traveling paper carriage, the combination of a support mounted for movement from an ineffective position to an effective position and reversely, at least one control member secured on said support in a selected position thereon for movement therewith to a position to control the extent of operation of said differential mechanism in at least one order thereof in accordance with the selected position of said control member on said support when said support is in said effective position, means operable by the machine cycling drive means to move said support to its effective position to cause said member to control said differential mechanism to enter a predetermined amount into said calculating and printing mechanisms and to return said support with the control member thereon to ineffective position in a cycle of operation of the machine, means controlled by said traveling carriage in accordance with the position thereof to enable and disable said support-moving means, and adjustable securing means to secure said control member on said support in any one of a plurality of selected positions thereon to thereby determine the extent of operation of said order of differential mechanism in cycles of operation of the machine in which said support is moved to said effective position.

2,637,495
COMPUTING DEVICE FOR VAPOR-LIQUID EQUILIBRIUM CALCULATIONS
Frank William Bubb, Webster Groves, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 7, 1948, Serial No. 37,333
20 Claims. (Cl. 235—61)

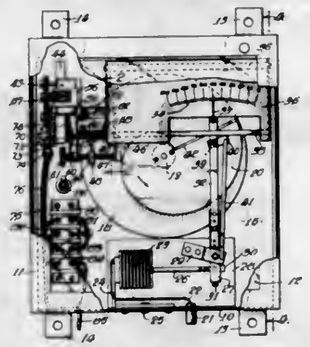


1. In a computer for determining the total fraction of vapor in a liquid-vapor mixture at equilibrium, in combination, a plurality of circuits corresponding respectively to the several components of said mixture, each circuit having a variable impedance element representative of a function of the equilibrium constant K of a particular component of the mixture, a variable impedance element representative of a function of the total fraction z of the particular component of the mixture, and a variable impedance element representative of the fraction of vapor v in the mixture, means for simultaneously adjusting said last mentioned v-representative impedances of all said circuits, means for supplying a standard potential E_0 to all of said circuits, said standard potential being modified in each of said circuits in accordance with the setting of the variable impedance elements to produce an output potential substantially equal to

$$\frac{zE_0}{1+(K-1)v}$$

means for adding the output potentials of said plurality of circuits, and means for indicating the equality of the said sum to the standard voltage thereby indicating that the setting of the impedances representative of the total fraction of vapor v is correct.

2,637,496
INTEGRATOR
Albert F. Sperry, Chicago, Ill., assignor to Panellit, Inc., Chicago, Ill., a corporation of Illinois
Application October 30, 1951, Serial No. 253,766
5 Claims. (Cl. 235—61)



1. In measuring apparatus, means for integrating instantaneous values of a variable, comprising: a turntable, means for rotating said turntable at a constant angular velocity, a plate fixed to said turntable for rotation therewith, said plate including a first edge portion extending substantially radially of the axis of rotation of said turntable, said plate further including a circumferential edge portion which connects the two ends of said radial edge portion, the generation of said circumferential edge portion proceeding according to a desired predetermined function, a housing positioned adjacent to said plate, means hingedly mounting said housing for swinging movement, a bar carried by said housing and positioned substantially parallel to said hinge means, spring means connected to said housing to urge the same toward said plate, stop means preventing said housing from contacting said plate, a pivoted, flexible lever bearing against said bar on said housing, means for shifting said lever along said bar toward and away from the axis of rotation of said turntable as the variable being measured changes in magnitude, a roller carried by said lever and positioned for engagement by said plate, the interval of time during which said roller is engaged by said plate during each revolution of the latter depending both upon the shape of said plate and upon the relative position of said lever along said bar, said housing being deflected away from said plate when said roller is engaged by said plate, a pivoted support adjacent said turntable, a rotatable shaft carried by said support and a wheel adjustably fixed to said shaft, means on said housing for rocking said support to drivably engage said wheel with said turntable each time said housing is deflected away from said plate, and a mechanical counter driven by said wheel shaft.

2,637,497
VEST-POCKET TYPE CALCULATOR
Sahn K. Lowe, Honolulu, Territory of Hawaii
Application March 24, 1950, Serial No. 151,788
14 Claims. (Cl. 235—78)

1. A calculator comprising a flat disc-like device including a top plate having a peripheral scale and a window adjacent the zero position of the scale, a bottom plate concentric with the top plate and pivoted thereto by an axial pivot member extending through said plates and holding them together, said bottom plate having a circular scale on its upper surface similar to the scale on the top plate and visible through said window, a flat disc mounted between said plates concentric therewith and rotatable on said pivot member, said disc being inside the scale on the bottom plate and having a scale thereon visible through said window, mechanism for rotating said disc through one division of its scale for each complete revolution of the bottom plate,



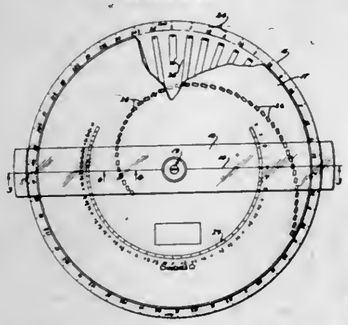
a value selector and actuator arm pivotally mounted on said pivot member below the bottom plate and extending radially from said pivot member, the outer portion of said arm having an indicator means adjacent the scale on the top plate, and cooperating means operatively arranged between said arm and the bottom plate for rotating the bottom plate relative to the top plate when the outer end of the arm is moved relative to the zero position of the scale on the top plate.

2,637,498
COMPUTING DEVICE
Cecil E. Pond, South Bend, Ind., assignor to Ecco, Inc., South Bend, Ind., a corporation of Indiana
Application October 15, 1951, Serial No. 251,425
8 Claims. (Cl. 235—83)



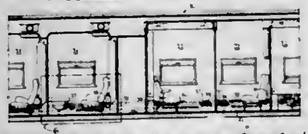
1. A computing device comprising a frustoconically shaped base having upper and lower sides, a disc superposed on the upper side of said base and rotatable about a vertical spindle journalled in said base, a series of radially extending ratchet teeth formed in said upper side in concentric relation with said spindle, a second series of radially extending ratchet teeth formed in the side of said disc facing said upper side and arranged in concentric relation about said spindle, a resilient elongated support positioned between said base and said disc and mounted between its ends to rotate about said spindle, one end of said support carrying a pawl which cooperatively engages the ratchet teeth in said base to permit rotation of said support relative to said base in one direction only, the other end of said support carrying a pawl which cooperatively engages the ratchet teeth in said disc to permit relative rotation between said disc and said support in one direction only, both said base and said disc being rotatable relative to said support in the same direction, retaining means affixed to said spindle for vertically positioning said spindle with respect to said base, a pointer carried by said spindle for rotation with said support and being superposed on the side of said disc opposite said base, an abutment provided on the periphery of said base and having a portion adjacent the periphery of said disc, and a stop carried by the periphery of said disc and arranged to engage said abutment whereby said disc and said base may rotate relative to each other a maximum of substantially only three hundred sixty (360) degrees in either direction.

2,637,499
CALCULATING INSTRUMENT
Arthur F. Winterfeldt, Montgomery County, Md.
Application May 12, 1952, Serial No. 287,412
10 Claims. (Cl. 235—88)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A calculating instrument for solving problems in animated motion picture layout wherein two values are known and a third value is to be solved for comprising a pair of circular discs having centrally arranged apertures therein, an elongated frame means having an aperture centrally arranged therein and a longitudinally extending centerline passing through said aperture, a pin extending through said apertures for mounting said discs on said frame means, one of said discs having a peripheral scale having numerical representations and a plurality of columns of numerals on one side thereof, each column extending radially between the central aperture of said one disc and a numerical representation on said peripheral scale, said columns being angularly spaced from each other by equal amounts, a plurality of spirally arranged windows in the other of said discs, said windows being equally spaced apart and arranged so that succeeding windows in the spiral center on succeeding numerals in said columns of numerals, and an arcuate scale on said other disc having numerical representations thereon, the arrangement being such that when the centerline is placed over the known values in said peripheral scale and said arcuate scale, the value to be solved for may be read through the window under said centerline.

2,637,500
HEATING AND VENTILATING SYSTEM, PARTICULARLY FOR VEHICLES
Edwin L. Kessler, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 4, 1951, Serial No. 204,314
7 Claims. (Cl. 237—5)



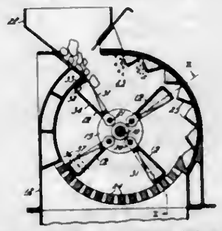
1. Heating apparatus for an enclosed structure having a plurality of compartments, comprising in combination, a secondary or standby heating pipe extending along and serving a plurality of compartments continuously while heating is required, a primary heating pipe extending along the same compartments parallel to the secondary heating pipe, a separate tubular heat-insulating enclosure for said primary heating pipe in each compartment, said enclosure having longitudinally spaced inlet and outlet openings, and means at one of said openings for forcing air to circulate from said compartment through said enclosure over the heating pipe therein and to return to the compartment.

2,637,501
MINIATURE OR TOY RAILROAD TRACK
Harold L. Joyce, Hartford City, Ind.
Application January 27, 1947, Serial No. 724,647
9 Claims. (Cl. 238—10)



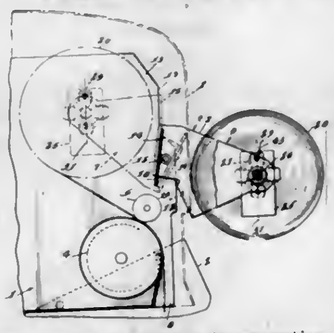
1. In a miniature or toy railroad track, the combination of a tie strip of relatively thin electrical insulating material, having a series of transverse corrugations therein, simulating spaced ties connected by base portions, the width of each base portion being less than the width of said tie portions, the latter having downwardly diverging side walls, said tie portions each having a pair of spaced parallel slots therein extending transversely substantially therethrough, with the separated sections, so formed, of each tie connected by the adjacent base portions, corresponding slots in the respective tie portions being longitudinally aligned, and a rail member positioned in each series of longitudinally aligned slots, with the bottom edges of said rail members resting substantially on the respective base portions and supported therefrom, the width of said slots being such that the rail members are frictionally engaged by the adjacent edges of said tie sections, the track so formed being sufficiently flexible to permit curving thereof when desired, whereby the same may be employed either as straight or curved track.

2,637,502
POCKETED HAMMER ROTOR FOR PULVERIZING MACHINES
Fred C. Bond, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application June 7, 1949, Serial No. 97,618
1 Claim. (Cl. 241—194)



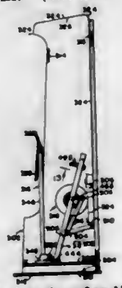
A pulverizing machine, comprising, a casing, a hammer carrying member rotatably mounted in said casing, a hammer pivotally mounted on said member about an axis parallel to the axis of rotation of said member, said hammer having surfaces forming a pocket therein with an opening in a generally radial plane with respect to said axis of rotation for accumulating a layer of the material being reduced when said member is rotated about said axis such that the exposed surface of said layer forms an advancing impact surface, and at least some of said surfaces of said pocket being corrugated to resist displacement by centrifugal force of portions of said layer adjacent the corrugated portions of said surfaces.

2,637,503
SUPPLY ROLL MOUNTING MEANS FOR DISPENSING CABINET
Rudolph G. Birr, Lombard, Ill., assignor to American Linen Supply Co., Chicago, Ill., a corporation of Nevada
Application October 4, 1950, Serial No. 188,413
6 Claims. (Cl. 242—55.2)



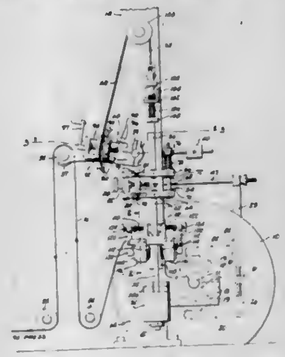
1. A cabinet having means for mounting a supply roll of sheet material, including a pair of pivoted arms adapted to swing outside of the cabinet to receive the supply roll, and means for rotatably but detachably securing a roll to said arms including a coupling plate pivoted on one of the arms, said plate having spaced coupling elements thereon, said plate being weighted to gravity-maintain one of said coupling elements uppermost whatever may be the position to which said arms may be swung before connecting the supply roll therewith.

2,637,504
TENSION CONTROL REEL
Charles B. Biessing, Oakland, Calif., assignor to Biessing Packaging Company, a corporation of California
Original application May 10, 1949, Serial No. 92,259, now Patent No. 2,479,552, dated August 23, 1949. Divided and this application July 5, 1949, Serial No. 103,029
1 Claim. (Cl. 242—75)



A tensioning device for feeding a web from a roll thereof wound on a tubular core, said device comprising first and second spaced support arms, means on the first of said support arms for supporting one end of said core, means on the second of said support arms for supporting the other end of said core and for controlling rotation of said core including a shaft secured on said second support arm, a centering head mounted on said shaft for rotation and having a cup member with a cylindrical inner side wall adapted for use as a friction surface and an outer side wall adapted to engage one end of said core, a brake shoe extending concentrically with at least a portion of said inner side wall and mounted within the cup structure, and a crank arm pivotally mounted on the second support arm, said lever arm actuating said brake shoe.

2,637,505
WEB TENSIONING MEANS
Kenneth G. Laycock, Shavertown, Pa.
Application January 28, 1950, Serial No. 141,127
16 Claims. (Cl. 242—75)



1. In a web tensioning device for controlling the tension of a paper web fed from a web roll to a rotary printing press, having a web roll support, means for applying friction to the web roll to tension the web, a pilot roller moved by changes in the web tension and connected to increase or decrease the friction applied to the web roll, an increase in web tension causing a decrease in the friction, the combination of a mass, and a linkage having variable lever arm ratio connected between the pilot roller and mass, a spring forming part of the linkage, said linkage and spring being connected between said mass and pilot roller for supporting said mass with a variable resiliency.

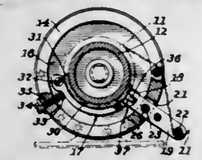
2,637,506
WEB TENSION CONTROL FOR PRINTING PRESSES
Kenneth G. Laycock, Shavertown, Pa.
Application November 4, 1950, Serial No. 194,142
12 Claims. (Cl. 242—75)



1. In a tension device for tensioning the web as it is fed from a web roll to a printing press,

the combination of means for rotatably supporting a web roll, a running belt driven from the press at a small fraction of the speed of the running web to be pressed against the surface of the web roll to exert a drag thereon, a counterbalanced pilot roller over which the web is fed normally urged by means of a resiliently suspended mass against the tension of the web looped around it, a brake restraining feeding movement of the running belt to vary the pressure of the belt against the web roll, and means for controlling the action of the brake on the running belt by the tension of the web as measured by the pilot roller.

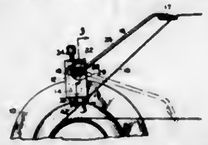
2,637,507
FISHING REEL
Harry Phillips, Winston-Salem, N. C.
Application January 10, 1951, Serial No. 205,281
3 Claims. (Cl. 242—84.5)



1. A fishing reel comprising: spool supporting frame members; a one piece spool having an integral circular brake drum extension at one end; the first of said frame members having an inwardly facing brake drum enclosing flange, the second of said frame members having an outwardly facing gear train encasing flange; an arcuate brake shoe having one end pivotally mounted on said first frame member and within the enclosure of said brake drum enclosing flange; a coil spring in compressed engagement between said brake shoe and said brake drum enclosing frame and disposed radially with respect to the said spool, said spring having one end engaging said brake drum enclosing flange and the other end engaging said brake shoe; a first lever pivotally mounted on said first frame member and pivotally and slidably connected with the free end of said brake shoe by means of a laterally extending pin in the end of the brake shoe and a pin receiving yoke at the brake shoe engaging end of said lever, said lever extending radially substantially beyond the confines of said frame members; a second lever pivotally mounted on said second frame member extending radially and substantially beyond the confines of said frame members, said second lever being parallel to said first lever; and a fish line engaging bar mounted transversely between said levers in a position to be engaged by a line leaving the spool so as to actuate said levers to disengage said brake shoe from said brake drum.

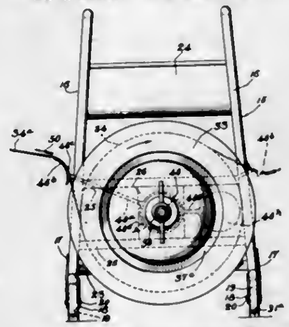
2,637,508
ANTIBACKLASH ATTACHMENT FOR FISHING REELS
Eugene Paul Battaglia, Bronx, N. Y.
Application March 8, 1951, Serial No. 214,547
10 Claims. (Cl. 242—84.5)

1. In a fishing reel attachment, a support, a sleeve rotatably mounted in the support and having a longitudinal groove in the side wall thereof, a set screw for the sleeve in the support, a coil spring housed in the sleeve and having an end portion thereof inserted into the groove, a brake-control member secured to the other end of the spring and having a pivot rotatably mounted in the sleeve, a brake-carrying tube slidably mounted in the support and having a recess therein, a brake member carried by the



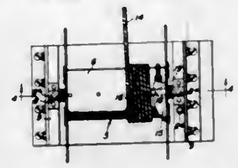
tube, the brake-control member having a crank portion entering the recess of the tube to slide the tube on oscillation of the crank portion and means for adjusting the longitudinal position of the tube relatively to the support.

2,637,509
COIL UNREELER
Godfrey Stanius, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application March 17, 1945, Serial No. 583,185
15 Claims. (Cl. 242—105)



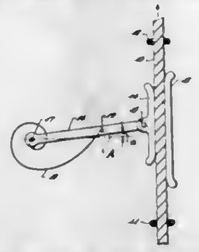
1. A coil unreeler comprising, a rotatable reel adapted to support a coil of strapping or the like, a brake comprising an expansible and contractible helical spring adapted to engage a part of the reel for controlling the rotation of said reel, and means actuated by a portion of the strapping being withdrawn from said coil for controlling the expansion and contraction of said spring.

2,637,510
TRIP ROPE TENSIONING AND RELEASING DEVICE
Alfred E. Gill, Plentywood, Mont.
Application August 8, 1950, Serial No. 178,313
7 Claims. (Cl. 242—107)



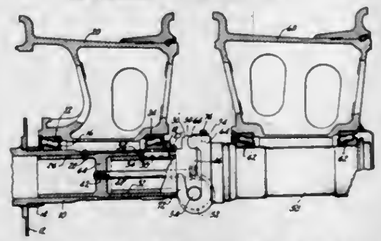
1. A trip rope tensioning device comprising a spring drum, a connector for one end of a rope to be wound on the drum, and a locking pin carried by the drum and releasably holding the connector thereon.

2,637,511
TENSION DEVICE
James Watt Ijsbrand Heijnis, Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application October 10, 1950, Serial No. 189,397
In the Netherlands October 17, 1949
4 Claims. (Cl. 242—149)



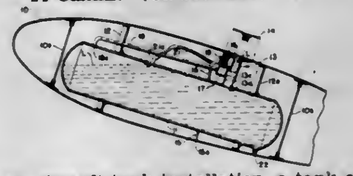
1. A thread tensioning device comprising spaced guides defining a thread path therebetween, a fixed elongated flat rigid tensioning shoe presenting a surface parallel and contiguous to the thread path, a movable elongated flat rigid tensioning shoe presenting a surface contiguous to the thread path, a pivot arm mounting said movable shoe for arcuate movement in a plane parallel to the thread path and perpendicular to the surface of the fixed shoe toward and away from said stationary shoe from a normal position slightly away from the position of maximum proximity of said shoes, said arm being inclined about a stationary axle perpendicular to said plane in such a manner that an angle of between zero and ten degrees is formed between said arm and perpendicular from said axle to said stationary shoe, said movable shoe being closer to the output thread guide than to the input thread guide, and means to bias said movable shoe toward said position of maximum proximity.

2,637,512
AIRCRAFT UNDERCARRIAGE
Franklin C. Albright, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 7, 1951, Serial No. 260,489
12 Claims. (Cl. 244—103)



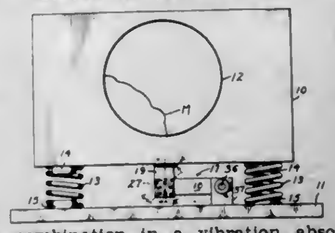
11. An undercarriage for use on an aircraft comprising a main axle adapted to be secured to an aircraft, an auxiliary axle arranged to be detachably connected in fixed relation with respect to said main axle so as to axially extend therefrom, and means providing said detachable connection comprising a first portion provided on one end of said main axle arranged to take an upwardly directed supporting force, a second portion detachably interlocked with said first portion and having means arranged to receive an upwardly directed supporting force from said first portion, said detachable connecting means serving to release and separate said auxiliary axle from said main axle when said main axle becomes air-borne.

2,637,513
AIRCRAFT TANK ARRANGEMENT
Jarvis A. Wallen, Seattle, Wash., assignor to Boeing Airplane Company, a corporation of Delaware
Application October 5, 1948, Serial No. 52,816
14 Claims. (Cl. 244—135)



2. In an aircraft tank installation, a tank enclosed at its upper portion by a top wall disposed in an inclined position when being filled upon the ground, said tank having a plurality of openings through the top wall thereof diposed at different levels in said inclined position when being filled, a filler fitting connected with the lowermost of said top wall openings, an auxiliary vent line connecting a higher of said top wall openings with the atmosphere, a main vent line connecting the uppermost of said top wall openings with said filler fitting, said filler fitting having a compartment open at all times to the said lowermost filling opening and to the atmosphere, and a further compartment in said filler fitting connected with said main vent line, an opening between the said compartments of said filler fitting, a filler cap releasably attachable to said filler fitting, and valve means for closing said communication opening between the said compartments of said filler fitting initiated by engagement of said filler cap with said valve means, said valve means being automatically closed upon removal of said filler cap for said filling operation during which time said main vent line is closed off by said valve means and is made ineffective for venting purposes, and said liquid level is automatically prevented from rising within said tank during the filling operation beyond the predetermined level of said auxiliary vent opening.

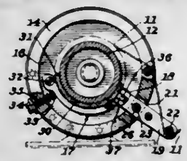
2,637,514
VIBRATION ABSORBING MOUNT
Bernard E. O'Connor, Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 14, 1947, Serial No. 728,479
17 Claims. (Cl. 248—21)



1. In combination in a vibration absorbing mount for supporting a body in spaced relation

the combination of means for rotatably supporting a web roll, a running belt driven from the press at a small fraction of the speed of the running web to be pressed against the surface of the web roll to exert a drag thereon, a counterbalanced pilot roller over which the web is fed normally urged by means of a resiliently suspended mass against the tension of the web looped around it, a brake restraining feeding movement of the running belt to vary the pressure of the belt against the web roll, and means for controlling the action of the brake on the running belt by the tension of the web as measured by the pilot roller.

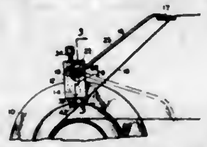
2,637,507
FISHING REEL
Harry Phillips, Winston-Salem, N. C.
Application January 10, 1951, Serial No. 205,281
3 Claims. (Cl. 242—84.5)



1. A fishing reel comprising: spool supporting frame members; a one piece spool having an integral circular brake drum extension at one end; the first of said frame members having an inwardly facing brake drum enclosing flange, the second of said frame members having an outwardly facing gear train encasing flange; an arcuate brake shoe having one end pivotally mounted on said first frame member and within the enclosure of said brake drum enclosing flange; a coil spring in compressed engagement between said brake shoe and said brake drum enclosing frame and disposed radially with respect to the said spool, said spring having one end engaging said brake drum enclosing flange and the other end engaging said brake shoe; a first lever pivotally mounted on said first frame member and pivotally and slidably connected with the free end of said brake shoe by means of a laterally extending pin in the end of the brake shoe and a pin receiving yoke at the brake shoe engaging end of said lever, said lever extending radially substantially beyond the confines of said frame members; a second lever pivotally mounted on said second frame member extending radially and substantially beyond the confines of said frame members, said second lever being parallel to said first lever; and a fish line engaging bar mounted transversely between said levers in a position to be engaged by a line leaving the spool so as to actuate said levers to disengage said brake shoe from said brake drum.

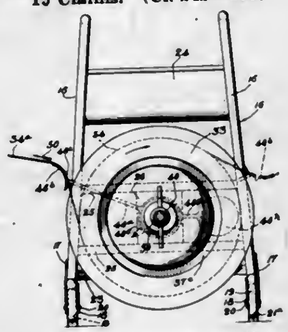
2,637,508
ANTIBACKLASH ATTACHMENT FOR FISHING REELS
Eugene Paul Battaglia, Bronx, N. Y.
Application March 8, 1951, Serial No. 214,547
10 Claims. (Cl. 242—84.5)

1. In a fishing reel attachment, a support, a sleeve rotatably mounted in the support and having a longitudinal groove in the side wall thereof, a set screw for the sleeve in the support, a coil spring housed in the sleeve and having an end portion thereof inserted into the groove, a brake-control member secured to the other end of the spring and having a pivot rotatably mounted in the sleeve, a brake-carrying tube slidably mounted in the support and having a recess therein, a brake member carried by the



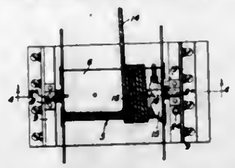
tube, the brake-control member having a crank portion entering the recess of the tube to slide the tube on oscillation of the crank portion and means for adjusting the longitudinal position of the tube relatively to the support.

2,637,509
COIL UNREELER
Godfrey Stanius, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application March 17, 1945, Serial No. 583,185
15 Claims. (Cl. 242—105)



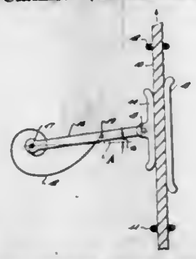
1. A coil unreeler comprising, a rotatable reel adapted to support a coil of strapping or the like, a brake comprising an expansible and contractible helical spring adapted to engage a part of the reel for controlling the rotation of said reel, and means actuated by a portion of the strapping being withdrawn from said coil for controlling the expansion and contraction of said spring.

2,637,510
TRIP ROPE TENSIONING AND RELEASING DEVICE
Alfred E. Gill, Plentywood, Mont.
Application August 8, 1950, Serial No. 178,313
7 Claims. (Cl. 242—107)



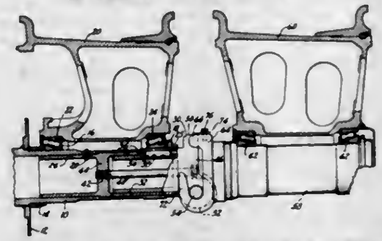
1. A trip rope tensioning device comprising a spring drum, a connector for one end of a rope to be wound on the drum, and a locking pin carried by the drum and releasably holding the connector thereon.

2,637,511
TENSION DEVICE
James Watt Ijsbrand Heijnis, Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application October 10, 1950, Serial No. 189,397
In the Netherlands October 17, 1949
4 Claims. (Cl. 242—149)



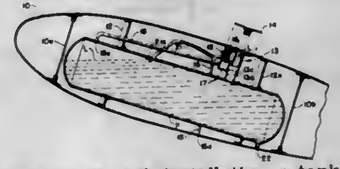
1. A thread tensioning device comprising spaced guides defining a thread path therebetween, a fixed elongated flat rigid tensioning shoe presenting a surface parallel and contiguous to the thread path, a movable elongated flat rigid tensioning shoe presenting a surface contiguous to the thread path, a pivot arm mounting said movable shoe for arcuate movement in a plane parallel to the thread path and perpendicular to the surface of the fixed shoe toward and away from said stationary shoe from a normal position slightly away from the position of maximum proximity of said shoes, said arm being inclined about a stationary axle perpendicular to said plane in such a manner that an angle of between zero and ten degrees is formed between said arm and perpendicular from said axle to said stationary shoe, said movable shoe being closer to the output thread guide than to the input thread guide, and means to bias said movable shoe toward said position of maximum proximity.

2,637,512
AIRCRAFT UNDERCARRIAGE
Franklin C. Albright, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 7, 1951, Serial No. 260,489
12 Claims. (Cl. 244—103)



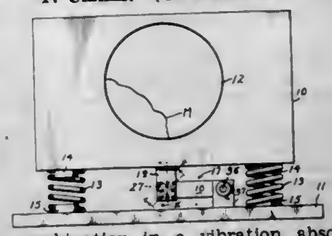
11. An undercarriage for use on an aircraft comprising a main axle adapted to be secured to an aircraft, an auxiliary axle arranged to be detachably connected in fixed relation with respect to said main axle so as to axially extend therefrom, and means providing said detachable connection comprising a first portion provided on one end of said main axle arranged to take an upwardly directed supporting force, a second portion detachably interlocked with said first portion and having means arranged to receive an upwardly directed supporting force from said first portion, said detachable connecting means serving to release and separate said auxiliary axle from said main axle when said main axle becomes air-borne.

2,637,513
AIRCRAFT TANK ARRANGEMENT
Jarvis A. Wallen, Seattle, Wash., assignor to Boeing Airplane Company, a corporation of Delaware
Application October 5, 1948, Serial No. 52,816
14 Claims. (Cl. 244—135)



2. In an aircraft tank installation, a tank enclosed at its upper portion by a top wall disposed in an inclined position when being filled upon the ground, said tank having a plurality of openings through the top wall thereof diposed at different levels in said inclined position when being filled, a filler fitting connected with the lowermost of said top wall openings, an auxiliary vent line connecting a higher of said top wall openings with the atmosphere, a main vent line connecting the uppermost of said top wall openings with said filler fitting, said filler fitting having a compartment open at all times to the said lowermost filling opening and to the atmosphere, and a further compartment in said filler fitting connected with said main vent line, an opening between the said compartments of said filler fitting, a filler cap releasably attachable to said filler fitting, and valve means for closing said communication opening between the said compartments of said filler fitting initiated by engagement of said filler cap with said valve means, said valve means being automatically closed upon removal of said filler cap for said filling operation during which time said main vent line is closed off by said valve means and is made ineffective for venting purposes, and said liquid level is automatically prevented from rising within said tank during the filling operation beyond the predetermined level of said auxiliary vent opening.

2,637,514
VIBRATION ABSORBING MOUNT
Bernard E. O'Connor, Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 14, 1947, Serial No. 728,479
17 Claims. (Cl. 248—21)



1. In combination in a vibration absorbing mount for supporting a body in spaced relation

to a base, a resilient primary supporting and vibration absorbing means comprising resilient units having a high load sustaining and vertical vibration absorption capacity but relatively low horizontal and pitch vibration control capacity, and a stabilizer structure including universally resilient coupling means and affording resilient restraint upon pitching and horizontal vibrations, said load sustaining resilient units being disposed in a vertical plane with one horizontal axis of said body, said stabilizer being connected to the vibrating body in a vertical plane with a horizontal axis transverse to the plane in which the resilient units are disposed.

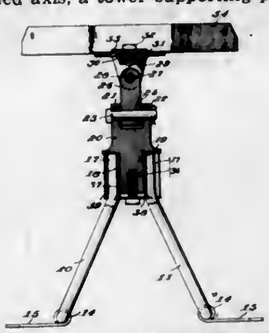
2,637,515
HOLDER FOR INFANTS' NURSING BOTTLES
Richard J. Walsh, Havertown, Pa.
Application April 19, 1950, Serial No. 156,758
2 Claims. (Cl. 248—102)



1. For use in holding a nursing bottle or the like, an elongated strap integrally formed of a continuous and imperforate length of thin flat flexible and resilient material, said strap having fastening elements at its ends whereby it can be secured to spaced supporting members in somewhat stretched taut condition, said strap being provided with a narrow elongated cut slit intermediate the ends of the strap, said slit extending longitudinally of the strap and being generally centered and parallel to the side edges of the strap so as to provide normally co-planar half-width sections of strap on either side of the slit, the ends of the slit terminating in enlarged holes providing a more or less continuous fully enclosed dumbbell-shaped opening in the strap, said slit being adapted to receive a nursing bottle or the like, with the normally co-planar half-width sections extending around the bottle on diametrically opposite sides thereof in stretched generally arcuate condition wherein they grip and frictionally hold the bottle against accidental displaceent, the half-width sections being disposed around the bottle in different axially-displaced planes.

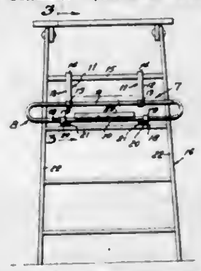
2,637,516
ANTENNA TOWER SUPPORTING BASE
Carl E. Kessler, Mineral Wells, Tex.
Application October 16, 1950, Serial No. 190,413
3 Claims. (Cl. 248—183)

1. A tower-supporting base comprising an elongated cylindrical bearing member, a plurality of leg members having upper end portions parallel with the axis of said bearing member and secured to the outer wall thereof, a member supported by said cylindrical bearing member for rotation about the axis thereof, a second member having a pivotal connection with said first member about an axis normal to the first named axis, a third member having a pivotal connection with said second member about an axis normal to the second named axis, a tower-supporting plate re-



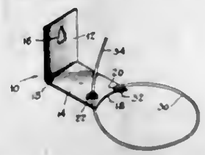
movably supported upon said third member, and adjustable means operatively associated with said bearing member and said first member for selectively locking said first member against rotation in the bearing member.

2,637,517
LADDER BRACKET
Walter L. Brensike, Appleton, and Harold R. Brensike, New London, Wis.
Application December 1, 1950, Serial No. 198,868
5 Claims. (Cl. 248—238)



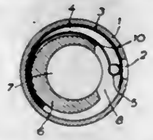
1. A ladder bracket comprising a pair of hooks each adapted to detachably engage over a ladder rung or step and each provided with an elongated depending shank adapted to extend downwardly from an edge of the step or rung, a rigid elongated member having spaced portions connected to lower portions of the hook shanks and disposed transversely of said hook shanks, a second elongated member, and means connecting said elongated members outwardly of said hook shanks in spaced substantially parallel relationship and normally supporting said second elongated member beneath the first mentioned elongated member, said elongated members being adapted to be disposed beneath the step or rung engaged by the hooks and above the step or rung disposed directly therebeneath for selectively supporting an end of a platform on either of said elongated members at different levels relatively to the step engaged by the hooks, said first mentioned elongated member being turnably and slidably connected to the hook shanks whereby the second elongated member is swingable upwardly to a position above the first mentioned elongated member and against the hook shanks for supporting an end of the platform above the level of the first mentioned elongated member.

2,637,518
RECEPTACLE SUPPORT
William R. Young, Fairfield, Conn.
Application March 3, 1949, Serial No. 79,489
3 Claims. (Cl. 248—312)



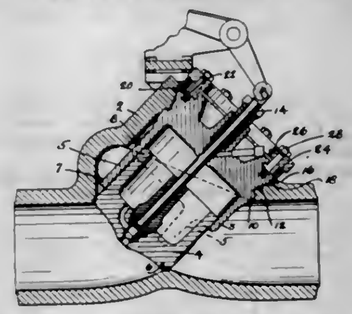
2. As a new article of manufacture an elongate sheet metal plate pierced near one end thereof to form an opening adapted to receive an anchor the end of a wire container-embracing snare; guide means stamped from the material of said plate near said end and adapted to receive therethrough and encircle another portion of a snare for continuous sliding movement substantially in the plane of said end of said plate, said plate being free of obstructions in the path of said sliding movement and being pierced near the other end thereof to form a support engaging opening, said plate being bendable at various locations between said ends whereby the same may be adjusted to accommodate the particular belly-neck difference of a container to be supported.

2,637,519
SPRING-PLATE VALVE
Jacques Ferrari, Marseille, France, assignor to Etablissements Paul Duclos, Le Canet-Marseille, France, a corporation of France
Application July 1, 1950, Serial No. 171,724
In France August 9, 1949
1 Claim. (Cl. 251—119)



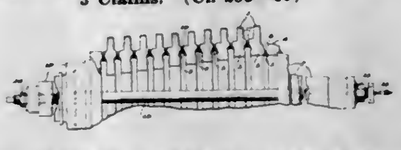
A valve comprising a hollow cylindrical casing with at least one fluid inlet port extending radially therethrough, a hollow cylindrical body disposed within said casing with its axis eccentrically spaced from the casing axis in a direction away from said inlet port, said body having at least one port aligned with said inlet port, said eccentric disposition of said body providing a wide spacing between said body and said casing adjacent said ports and a close spacing between the diametrically opposite side of the body and the casing, an arcuate flexible valve member, and an arcuate spring member, said members having adjacent ends clamped together between the closely spaced parts of said body and casing, said members extending half way around said body with their opposite ends between said ports, said spring member being inside said valve member and effective to bias said opposite end of said valve member toward seating engagement with the inner surface of the casing around said inlet port, said wide spacing permitting an inward opening movement of the valve against said spring in response to pressure outside said casing, said port in said body being widened at its outer end to form a shoulder on said body against which said spring member abuts when said valve member opens a predetermined distance, so as to reduce the effective length of the spring and thereby increase the force necessary to open the valve further.

2,637,520
VALVE
Oscar H. Ludeman, New York, N. Y.
Application March 25, 1952, Serial No. 278,437
3 Claims. (Cl. 251—156)



3. In valve mechanism the combination of a valve body, a cylindrical member removably mounted therein, the outer end of said cylindrical member being solid, its intermediate portion being tubular, and its inner end being tubular with portions removed to provide leg-like elements extending lengthwise of the member into contact with the bottom portion of the valve body, a valve; adapted to be reciprocated in said cylindrical member while being guided by said leg formation and by the said intermediate portion of the cylindrical member locking lugs on the interior of the valve body and cooperating lugs on the exterior of the solid portion of the cylindrical member, said sets of lugs being staggered relatively whereby when the cylindrical member is rotated for a partial turn the lugs will be disengaged, an annular sealing groove at the outer end of the cylindrical member between it and the valve body, a sealing ring overlying said groove, and a clamping ring bolted to the outer end of the cylindrical member for forcing the sealing ring into the said groove to provide a hermetic seal and to draw the locking lugs into solid contact with each other.

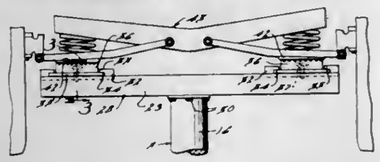
2,637,521
GAS TURBINE ROTOR AND METHOD OF WELDING ROTOR DISKS TOGETHER
Leonard R. Constantine, Greensburg, Charles T. Evans, Jr., Delmont, and Edward S. Dennison, Hempfield Township, Westmoreland County, Pa., assignors to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania
Application March 1, 1949, Serial No. 79,004
3 Claims. (Cl. 253—69)



1. The method of welding together a pair of gas turbine rotor annular discs made of a brittle alloy having extremely great strength at gas turbine operating temperatures, comprising placing

the discs side by side with an inwardly tapered annular groove between them closed at its inner side by a backup ring, making a root pass in the groove around the ring with a weld metal that is of different composition and materially more ductile than the disc metal, making succeeding passes with a weld metal of substantially the same composition as the disc metal, whereby incipient cracks between the weld and the backup ring will be restricted to said ductile metal, and boring out said ductile metal and the underlying backup ring metal.

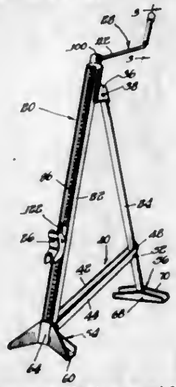
2,637,522
VEHICLE HOISTING APPARATUS
David A. Wallace, Grosse Pointe Farms, Mich., assignor to Walco, Inc., Detroit, Mich., a corporation of Michigan
Application August 19, 1948, Serial No. 45,107
5 Claims. (Cl. 254—89)



1. A load receiving seat structure for vehicle hoisting apparatus comprising a base portion, a weight supporting member shiftably mounted on said base structure for movement in the direction of the length of a vehicle including a plate element and a non-metallic yieldable vehicle contacting element fixed thereto and movable into projecting relationship beyond the lateral extremities of said base portion, said plate element having opposite edge portions projecting beyond said yieldable vehicle contacting element and extending in said direction of movement, mounting means on said base portion having flanges overlapping said opposite edge portions of said plate element for holding said weight supporting member against displacement from said base portion when said yieldable element is extended beyond the lateral extremities of said base portion and weight is applied on a portion of said yieldable element beyond said extremities, said yieldable vehicle contacting element having portions confined between said flanges, and means coacting between said plate element and said base structure for positively holding said weight supporting member in a selected one of a plurality of positions.

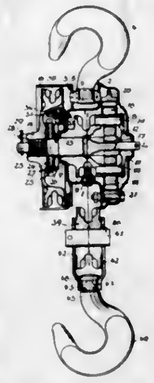
2,637,523
LIFTING JACK
Millard B. Lucker, St. Joseph, Mich., assignor to Auto Specialties Manufacturing Co., St. Joseph, Mich., a corporation of Michigan
Application September 14, 1950, Serial No. 184,779
14 Claims. (Cl. 254—99)

1. In an automobile lifting jack including a rotatably mounted threaded rod and a carrier member threadedly mounted upon said rod for movement therealong, a substantially C-shaped relatively thin metal load rest having a substantially uniform cross sectional thickness and including a pair of substantially parallel sides joined by bight portions along the inner edge of the C, means pivotally connecting said C-shaped load rest to the carrier member, an abutment member provided by a bight portion adjacent the upper end C-shaped load rest for engaging a bumper, and a retaining member provided by the lower edge of a bight portion projecting



upwardly and outwardly to provide a bumper engaging and supporting portion.

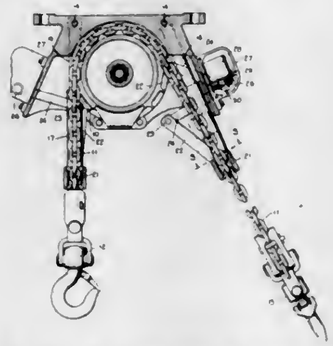
2,637,524
PULLEY BLOCK
Karl Huvendick and Heinz Wilhelmi, Mulheim-Ruhr, Germany
Application August 15, 1949, Serial No. 110,412
In Switzerland August 19, 1948
4 Claims. (Cl. 254—169)



1. A pulley block of the class described including a driving shaft, a sprocket wheel on said shaft, a bearing shield on said shaft and spaced from said sprocket wheel, planet gears between said wheel and said shield, means connecting said gears to said wheel and said shield, means operatively connecting said gears to said shaft, a substantially cup-shaped casing enclosing said sprocket wheel, said casing having an inner central cylindrical shaped portion provided with an annular inwardly extending flange engaging the hub of said sprocket wheel, said casing having its outer end provided with an outwardly and radially extending flange, a plate ring connected to the cylinder portion of said casing and spaced from said radial flange, a cover enclosing said gears and having a central flange engaging the hub of said shield, means detachably connecting the cover to the radial flange of the casing, a carrying hook having a depending

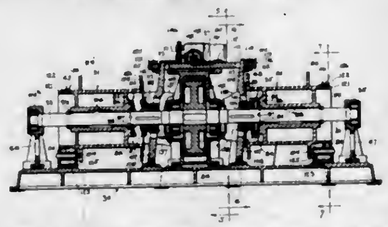
shank extending into the space between said flange and said plate ring, and movable means connecting said shank to said flange and ring so that the hook may be swung around an axis substantially parallel to the axis of said driving shaft, said casing and cover being formed of press sheet metal of substantially the same uniform thickness.

2,637,525
HOIST LIMIT MECHANISM
Frank Lock, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application June 30, 1949, Serial No. 102,289
9 Claims. (Cl. 254—173)



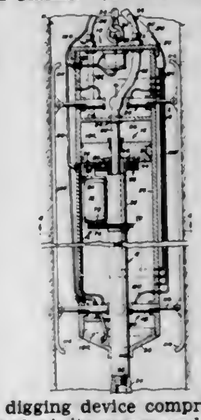
1. In a hoist of the class described, a hoist body, a chain guide, support means mounting said chain guide for pivotal swinging movement, means mounting said chain guide for sliding movement relatively to said support means, a switch actuating lever pivoted on said hoist body, and an operating member pivoted to said switch actuating lever and to said chain guide for moving said switch actuating lever upon sliding movement of said chain guide on said support means.

2,637,526
CAR PULLER
Frederick H. Hoge, Oak Park, and Joseph A. Marland, La Grange, Ill., assignors to W. A. Jones Foundry & Machine Company, Chicago, Ill., a corporation of Illinois
Application January 30, 1950, Serial No. 141,312
3 Claims. (Cl. 254—185)



1. In a car puller the combination of a main drive shaft, means to journal the ends of said shaft, separate winding drums journalled on the shaft adjacent to the shaft journals and between said journals, the inner ends of said drums facing towards each other and being separated from each other, a toothed clutch element secured to the inner end of each drum, the driving faces of the teeth of both of said clutch elements facing in the same direction of drive, two independent driving clutch elements drivingly and slidably mounted on the shaft between the drum clutch elements, one for each drum clutch element, driving teeth on the shaft clutch elements adapted to drivingly engage the teeth of the drum clutch elements respectively, means to drive the shaft at a point between said shaft clutch elements, and common means to slidably shift both clutch elements harmoniously in either direction along the shaft to thereby engage the teeth of one shaft clutch element with the clutch teeth of the adjacent drum and to disengage the teeth of the other shaft clutch element from the clutch teeth of the other drum, said shaft clutch element slidable shifting means including a reciprocable clutch operating bar between the driving clutch elements, means to move said bar in either direction selectively, a clutch actuator for each of the driving clutch elements, an operative connection between each clutch actuator and the corresponding driving clutch element, a lost motion connection between the clutch operating bar and each clutch actuator, each lost motion connection being so constituted as to allow movement of the clutch operating bar with respect to its corresponding clutch actuator by an amount of movement sufficient to permit full movement of the clutch operating bar in clutch engaging direction and away from a clutch disengaging position of the clutch operating bar without corresponding movement of such clutch actuator, positive engaging means between the clutch operating bar and each clutch actuator positioned to ensure positive engagement of the clutch operating bar and each clutch actuator during movement of the clutch operating bar in direction to move such clutch actuator in clutch disengaging direction, and spring means between the clutch operating bar and each clutch actuator, each spring means acting to urge movement of the corresponding clutch actuator in direction to engage the corresponding driving clutch element with the companion drum clutch element.

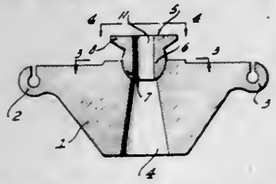
2,637,527
WELL DRILLING DEVICE
Joseph B. Andrews, Jr., Cincinnati, Ohio
Application August 21, 1950, Serial No. 180,655
4 Claims. (Cl. 255—4.8)



1. A well digging device comprising a tubular housing closed at its upper end and having a

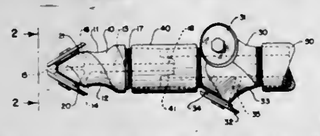
drill shaft bearing bore at its lower end, a drill shaft rotatably disposed in said housing and downwardly movable through said bore, a motor enclosed in said housing at one side of said shaft and operatively connected thereto for rotating said shaft, means for moving said shaft and said motor downwardly, and remote control fluid pressure responsive means for supporting said housing within a well hole, and adjusting the housing with respect to the vertical.

2,637,528
CARRIER BAR FOR POLISH RODS
Mace A. Cox and James L. Shively, Long Beach, Calif.
Application July 1, 1949, Serial No. 102,568
2 Claims. (Cl. 255—11)



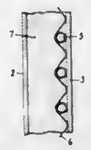
1. A carrier bar for polish rods comprising a body, a pair of oppositely positioned ears extending from said body by means of which the body is supported, said body having a vertical bore extending therethrough from top to bottom, said bore being tapered outwardly towards the bottom of the body, a hemispherical seat formed in the body and at the upper end of said bore, a carrier ball swivelly mounted in said seat and in alignment with the bore, said carrier ball having a hole extending vertically therethrough and in alignment with said bore, said carrier ball including an integral and outwardly flared flange on the upper end thereof, and the upper face of said flange being flat and of greater diameter than said carrier ball.

2,637,529
CUTTING TOOL
Everett C. Howell, Riverside, Calif.
Application October 27, 1947, Serial No. 782,278
4 Claims. (Cl. 255—71)



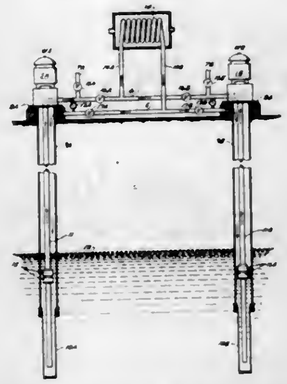
1. A drill bit of the character described, comprising an elongated tapered solid body of nonferrous material which does not corrode or rust and which allows easy casting, said material having helical grooves on its outer surface, rotary cutters mounted thereon with the axis of rotation of each cutter passing respectively through each one of said helical grooves at the forward end of the bit, with a portion thereof extending beyond said forward end and with its rotational axis at an acute angle with respect to the axis of the drill, the diameter of each of said cutters being greater than the width of the corresponding groove, with said cutters overhanging the forward tip of said body to minimize abrasion of said tip and to assure better cleaning of the space between said cutters and said body, said body having a water channel extending therethrough arranged to project a stream of water against the inside surfaces of said cutter, and a conduit at the tip of said tapered body in communication with said water channel arranged to direct a stream of water forwardly and along the axis of said body.

2,637,530
HEAT EXCHANGE STRUCTURE
Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application April 4, 1950, Serial No. 153,973
8 Claims. (Cl. 257—17)



1. A refrigerator cabinet comprising an outer wall, an inner wall spaced from said outer wall and defining a food storage compartment, refrigerant-conducting tubing disposed adjacent one of said walls in the space between said walls, and means for maintaining said tubing in heat exchange relationship with said one of said walls, said means including a continuous sheet of flexible heat-conducting material adjacent said tubing on the side of said tubing opposite said one of said walls and compressed resilient heat-insulating material in the space between said sheet and the other of said walls, said compressed resilient heat-insulating material urging said flexible heat-conducting material against said tubing and against said one of said walls to maintain said tubing in heat exchange engagement with said one of said walls and to maintain said heat-conducting material in heat exchange engagement with said tubing and with said one of said walls.

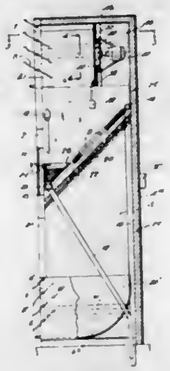
2,637,531
APPARATUS FOR CIRCULATING WATER
Harold B. Davidson, near Louisville, Ky.
Application September 17, 1949, Serial No. 116,374
5 Claims. (Cl. 257—122)



1. A water circulating system comprising in combination a pair of wells which are spaced apart and connected to a source of water, said

wells comprising well casings and pump columns, a pair of independently-operated pumps having a pressure side and a suction side and adapted to pump water from said wells, a pressure conduit connecting the pressure sides of said pumps, a return conduit connecting the well casings of said wells, a heat exchanger connected between the pressure conduit and the return conduit and adapted to receive water from the pressure conduit and to discharge it into said return conduit after heat exchange, and valve means in said conduits so connected that water can be pumped selectively from the pump column of one of said wells, through the pressure conduit, through the heat exchanger and through the return conduit to the well casing of the other well.

2,637,532
FAN TYPE HEAT EXCHANGER
Augustus L. Baker, Wrentham, Mass.
Application March 31, 1951, Serial No. 218,596
21 Claims. (Cl. 257—137)



1. An apparatus of the character described comprising an upright casing member, said casing being provided with lateral air openings in its upper and lower portions, a heating unit mounted in said casing between the lateral openings, said heating unit exposing a relatively large area for contact with air flowing from one of the openings to the other, air conduit means supported at the upper end of the casing and including a free flow air conduit section, and a forced flow air conduit section communicating with the free flow air conduit sections, and means for selectively controlling flow of air through the said air conduit sections.

2,637,533
MULTI-V FM ANTENNA
Marvel W. Scheidorf, Palos Heights, Ill., assignor to Andrew Corporation, Chicago, Ill., a corporation of Illinois
Application September 24, 1949, Serial No. 117,628
7 Claims. (Cl. 250—33.53)

5. An antenna comprising a coaxial transmission line, a pair of generally horizontal radiating conductors mounted upon a base, each of said conductors being formed of two telescopic members for adjustment in accordance with the frequency to be transmitted, said conductors being arranged at an angle to each other to form a truncated V, the fixed end of one of said conductors being connected to the outer conductor of said transmission line, and means connecting the inner conductor of said transmission line



to a point intermediate the ends of said other horizontal conductor.

2,637,534
METHOD OF OBTAINING THE DISPERSION OF A FINELY DIVIDED SOLID MATERIAL IN A LIQUID
Michael Henry Miller Arnold, Birmingham, England, assignor to Postans Limited, Birmingham, England, a company of Great Britain
No Drawing. Application April 10, 1951, Serial No. 220,351. In Great Britain May 6, 1950
2 Claims. (Cl. 259—1)

1. The new or improved method of obtaining the dispersion of a finely divided solid material in a liquid residing in the steps of mixing the finely divided material with a liquid of low viscosity and of a volatile nature, then subjecting the mixture to the influence of ultrasonic vibrations and utilising the heat developed to evaporate part of the liquid so as to produce a preparation having a desired solids content.

2,637,535
PROCESS FOR MANUFACTURING PAINTS AND COLORED PLASTICS
Michael Henry Miller Arnold, Birmingham, England, assignor to Postans Limited, Birmingham, England, a corporation of Great Britain
No Drawing. Application April 10, 1951, Serial No. 220,352. In Great Britain May 6, 1950
5 Claims. (Cl. 259—1)

1. The new or improved process for manufacturing paints comprising the steps of effecting the admixture of a powdered pigment and a carrier liquid of low viscosity, subjecting the mixture to ultrasonic vibrations to ensure a uniform dispersion of the pigment in the carrier liquid, reducing the product to a desired solids content by evaporation, then adding the preparation aforesaid in the required proportion to a liquid which is to constitute the body of the paint and which liquid is of relatively high viscosity, and subsequently effecting a mixture of the liquid pigment preparation of relatively low viscosity and the liquid of relatively high viscosity.

2,637,536
METHOD OF DISPERSING MATERIALS IN WATER
Jack De Ment, Portland, Oreg., assignor to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application October 30, 1947, Serial No. 783,215
1 Claim. (Cl. 259—1)

The method of mixing a material with a large volume of water which comprises the introduction into the water of the said material to be mixed with solid carbon dioxide the ratio of said material to the carbon dioxide between approximately 1:1 and approximately 1:5000 such

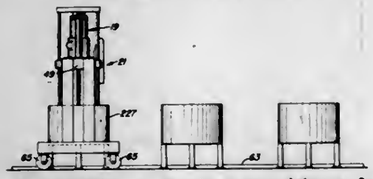
that the release of gaseous carbon dioxide therefrom effects mixing of the said material with the said water.

2,637,537
DRINK MIXER AGITATOR
W Arthur Ernst, Racine, Wis.
Application December 20, 1950, Serial No. 201,767
4 Claims. (Cl. 259—134)



2. An agitator-mixer head for use at the end of a mixer shaft and comprising a central coupling means for connection with the shaft, radial blades having exposed edges at their lower ends and outer sides, the end exposed edges being adapted to cut and the side exposed edges to mix the material engaged thereby, and a plate extending to a much greater radius than the blades and disposed immediately above said blades, the side edges of said blades being notched to comprise fingers, and of progressively increasing radius from the plate downwardly.

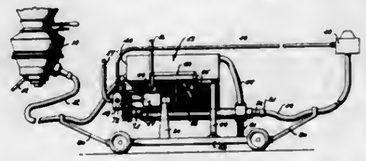
2,637,538
MIXING APPARATUS
Richard D. Boutros, James V. Donohoe, and Milton Dykman, Brighton, N. Y., assignors to Mixing Equipment Co., Inc., Rochester, N. Y., a corporation of New York
Application September 29, 1950, Serial No. 187,444
17 Claims. (Cl. 259—144)



1. An agitating apparatus comprising a frame having bearing means, a shaft slidable longitudinally in said bearing means and provided with an agitator, means for rotating said shaft and agitator, and means comprising an electric motor for sliding said shaft to lower and raise said agitator relative to said motor and rotating means into and out of a receptacle.

2,637,539
DISTRIBUTION OF SOLIDS IN AIR
John M. Crom, New York, N. Y.
Application April 1, 1949, Serial No. 84,773
12 Claims. (Cl. 259—147)

1. A device for conveying dry materials such as hydraulic cement or the like that comprises in combination a source of air under pressure, a distributor for distributing solid materials in said air, a tubular member for conducting said air and solid materials to a distant point, a chamber positioned at said point for receiving said solid materials from said tubular member, a conveyor at the bottom of said chamber for conveying separated solid material from the



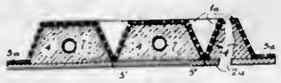
chamber, an outlet connection attached to said chamber for carrying air and fine solid material from said chamber, a mixing chamber connected to said outlet and to said conveyor for receiving air and fine material from said outlet and separated particles of solid material from said conveyor and mixing them.

2,637,540
GAS-LIQUID CONTACT APPARATUS
Carl B. Rowe, Madison, Wis., assignor to Research Products Corporation, Madison, Wis., a corporation of Wisconsin
Application May 5, 1949, Serial No. 91,597
9 Claims. (Cl. 261—94)



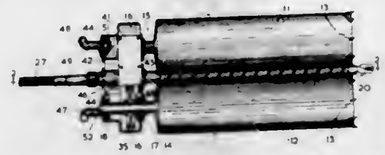
1. A gas-pervious water and gas contact unit comprising a plurality of superposed sheets of high wet strength water-absorbent fibrous material, said sheets each comprising an open mesh network of thin flat webs having their broad surfaces disposed at an angle to the general plane of the sheet.

2,637,541
DEVICE FOR DISTRIBUTING AIR, GAS, OR THE LIKE IN LIQUIDS
Alexander Rubin, Tel Aviv, Israel
Application February 28, 1951, Serial No. 213,152
2 Claims. (Cl. 261—122)



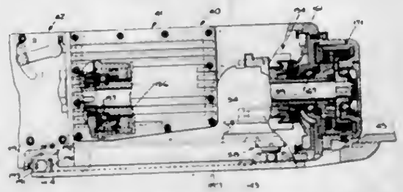
1. Device for distributing and diffusing air or gas in liquids, characterised in that it consists of elongated walls arranged to form a body of trapezoidal cross-section closed at both ends by walls, the top wall of which is plane and the lateral walls of which are outwardly sloping, the top wall as well as the lateral walls being provided with perforations, a perforated air or gas supplying tube being fixed in an end wall of the said body, the space between the tube and the walls of the body being filled with a porous material, so that the supplied air or gas passes through that material and the perforated top and lateral walls of the body into a liquid in which the device is immersed.

2,637,542
KERF-BORING MACHINE FOR MINING COAL AND LIKE MINERALS
Julius Yarmak, Wakefield, England
Application October 18, 1948, Serial No. 55,202
In Great Britain October 20, 1947
3 Claims. (Cl. 262—7)



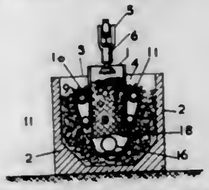
2. A kerf-boring machine for mining coal and like minerals comprising in combination at least one pair of tubular borers of a relatively large diameter and having thin walls, arranged parallel to each other, with a relatively small gap between them and one twist drill of a relatively small diameter located in said gap between the tubular borers; a common casing for rotatably supporting said borers and drill by their tail ends; power means comprising a separate motor and a transmission including a flexible shaft for rotating said borers and said drill; means including a prop structure adapted to be wedged between the roof and the floor of a seam for supporting the whole machine; means including a rack bar and driving pinion attached to said prop for thrusting the machine into coal or other mineral during boring of the kerf or cut.

2,637,543
MINING MACHINE FRAME AND CUTTER BAR CONSTRUCTION
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application April 6, 1945, Serial No. 586,979. Divided and this application May 27, 1952, Serial No. 290,160
7 Claims. (Cl. 262—30)



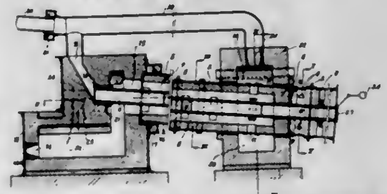
1. In a mining machine, the combination with a frame, of a motor adjacent the front part of said frame and having a housing, said motor including a rotor, said housing having a removable front plate which when removed provides for removal of said rotor by moving it forwardly, a cutter bar extending forwardly from said frame and having an extension which extends rearwardly and is pivotally connected to said frame at its rear end, means removably connecting said cutter bar extension and said frame forwardly of said pivoted connection which when disconnected provides for relative pivotal movement of the frame and cutter bar, and means including an elevating jack adjacent the front of said frame for effecting said pivotal movement whereby said rotor can be removed while the cutter bar remains connected to said frame.

2,637,544
PROCESS OF AND MEANS FOR THE CONTINUOUS RUNNING OF INDUSTRIAL FURNACES
George Zotos, Lausanne, Switzerland
Application July 21, 1947, Serial No. 762,389
In Great Britain June 18, 1946
9 Claims. (Cl. 263—43)



1. A process for feeding directly fired industrial furnaces in order to insure continuous run including the steps of using positive means for forming a consistant movable block of artificially predetermined cross section by materials to be continuously fed and treated by heat, shaping a hollow heating space by means of said block, keeping said space in a constant conformation by means of controlling the continuous material supply and the controlled motion of said block in order to pre-form a combustion chamber and heating said combustion chamber by direct combustion heat.

2,637,545
PROCESS FOR THE MANUFACTURE OF MAGNESIA AND CALCIUM CARBONATE
Max Hicguet, Paris, France
Application December 13, 1949, Serial No. 132,716
In France December 21, 1948
4 Claims. (Cl. 263—53)

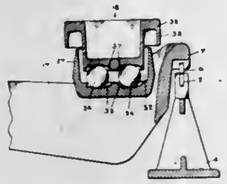


1. In a continuous process for producing from raw dolomite, a mixture of magnesium oxide and calcium carbonate substantially free from lime, the steps of rapidly heating raw dolomite to a temperature of the range 700–800° C. in a confined zone wherein the atmosphere substantially consists of carbon dioxide so as to cause calcination of said dolomite, maintaining said dolomite at said temperature in said zone in said atmosphere for a period of 2 to 15 minutes, then gradually cooling said dolomite in said confined zone still in said atmosphere to reach a temperature of 500° C. within 5 to 30 minutes, and thereafter withdrawing said dolomite from said confined zone.

2,637,546
WEIGHING SCALE
Harlan A. Hadley, Rutland, Vt., assignor to The Howe Scale Company, a corporation of Vermont
Application June 9, 1947, Serial No. 753,542
21 Claims. (Cl. 265—71)

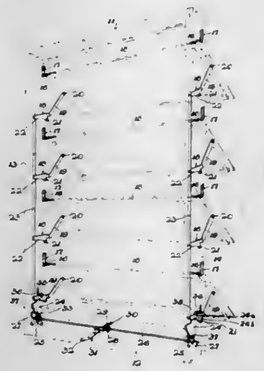
1. In a weighing scale, the combination with a lever having a bifurcated portion providing an

opening therebetween, of a cup-shaped girder chair support carried by said lever and extending into said opening, anti-friction bearings on said girder chair support, and a girder chair supported on said anti-friction bearings, the sides of said



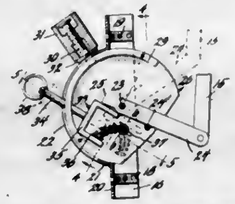
girder chair support being provided with knife edge bearings on said bifurcated portion of said lever and said knife edge bearings being in the same horizontal plane as said first-mentioned bearings.

2,637,547
LOUVER WINDOW AND OPERATING MECHANISM
Elmon A. Schottenberg, Youngstown, Ohio, assignor, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application December 27, 1949, Serial No. 135,271
2 Claims. (Cl. 268—23)



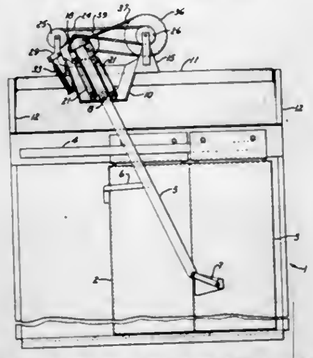
1. A louver window comprising a frame having a sill, a lintel, jambs and a tier of sashes in the open area of the frame, means for slidably and pivotally supporting the upper end of said sashes on said jambs, upwardly projecting bell cranks for each sash pivoted to the jambs, said bell cranks having upwardly directed extension arms pivoted to the sashes and additional relatively shorter arms projecting in the opposite direction, a vertical travel link for each jamb with the lower end thereof pivotally connected to each of said additional arms, gear segments rigidly and eccentrically secured to said shorter additional arms of the bell cranks with respect to the bell crank pivots of the lowermost sash, pinions meshing with the gear segments, a torsion shaft carrying said pinions, and means for rotating the torsion shaft.

2,637,548
WINDOW OPERATOR
Matt Gsupkaytii, Miami, Fla.
Application July 11, 1951, Serial No. 236,215
2 Claims. (Cl. 268—23)



1. In a window assembly of the type including a plurality of horizontally pivoted sash in vertical series and connected by a common linkage for simultaneous opening and closing movements, a window operating device comprising a supporting frame, a horizontal pivot supported thereon, a lever mounted for vertical angular movement on said pivot, said lever being adapted for connection to said linkage and having a tail portion extending beyond said pivot in the direction away from said linkage, a manually operable member mounted for vertical angular movement about said pivot, and a clutch member mounted for angular movement with said manually operable member and slidable relative thereto into and out of engagement with said tail portion of said lever, said manually operable member comprising a hollow enclosure, and said clutch member comprising a portion which in the engaged position abuts said tail portion on one side and a wall of said enclosure on the other side.

2,637,549
ELEVATOR DOOR OPERATING MECHANISM
Joseph H. Borden, Toledo, Ohio, assignor to Haughton Elevator Company, Toledo, Ohio, a corporation of Ohio
Application October 27, 1948, Serial No. 56,738
9 Claims. (Cl. 268—49)



7. In an elevator door operating mechanism for a sliding door of an elevator cab, in combination, an actuating lever pivoted on the elevator cab and having an end operatively linked to the door, a pair of spaced pulleys having substantially parallel axes and mounted on the cab one near each end of the path of the other end of said lever, a loop of flexible belting engaged in said pulleys, resilient means for maintaining said belting under tension, means for connecting the end of said lever to said flexible belting, said pulleys being located such that said lever deflects the connected run of the flexible belting in amounts that decrease from a maximum as the lever moves from the middle toward either end of its range of travel, and reversible means for driving one of said pulleys.

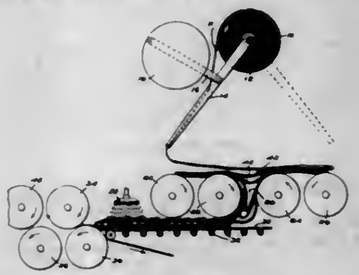
2,637,550
OVERHEAD DOOR ACTUATOR
Bert Ritter, Detroit, Mich., assignor, by mesne assignments, to McKee Door Company, Aurora, Ill., a corporation of Illinois
Application November 10, 1947, Serial No. 785,071
7 Claims. (Cl. 268—59)



2. In an overhead garage door operator for moving a door between a closed and open position a threaded shaft supported above the door, a traveling nut threadably mounted on said shaft, a link pivotally connected to said nut and to said door adjacent the upper edge thereof, said link constituting the only connection between said nut and said door, a motor for rotating said shaft, said nut being moved along said shaft to move said door when said shaft is rotated, and drive means for transmitting power from said motor to said shaft, said drive means including a driver member rotated by said motor, a driven member connected to rotate the shaft, a compressible resilient element disposed to transmit rotation between said driver and driven members to rotate said shaft and move said door from open to closed position, said resilient element slipping relative to said members to stop the rotation of said shaft when a predetermined force is applied to said door, and an interlock element mounted between said driver and driven members and adapted to positively rotate said driven member when said driver member is rotated in one direction and, hence, rotate said shaft in a direction to move said door toward the open position and adapted to permit slippage between said members when said driver member is rotated in the other direction.

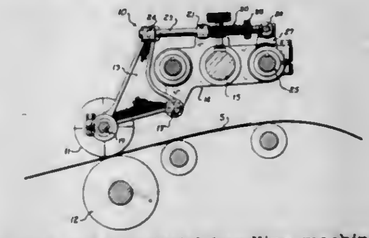
2,637,551
APPARATUS FOR FEEDING SHEET MATERIALS
Joseph W. Young, Sutton, Mass., assignor to The Felters Company, Boston, Mass., a corporation of Massachusetts
Application August 3, 1950, Serial No. 177,391
4 Claims. (Cl. 270—62)

1. An apparatus for feeding sheet material, comprising means for furnishing a continuous web of the sheet material, means for reversely folding the material upon itself to form a series of superimposed layers, oppositely rotating rolls located below the chute in a position to receive the layers thereon and cause outermost portions of each bottom layer to move toward one another into doubled over relationship, said rolls being spaced apart to provide a guideway into which



successive doubled over layers of material are advanced in nested relationship to one another, carrier means for receiving the nested layers as they leave the guideway, and a plurality of nip rolls arranged to engage opposite sides of the nested material during movement thereof.

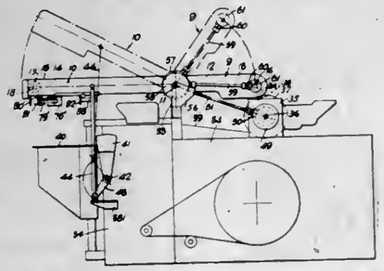
2,637,552
MAGNETIC CALIPER FOR SHEET MATERIAL HANDLING APPARATUS
George F. Watson, Racine, Wis., assignor to The Christensen Machine Company, Racine, Wis., a corporation of Wisconsin
Application April 1, 1952, Serial No. 279,871
28 Claims. (Cl. 271—57)



1. In a sheet material handling machine including conveyor means by which the sheet material is carried along a defined path, means for effecting a predetermined response of control instrumentalities for said machine upon passage along said defined path of an abnormal condition in the thickness of the sheet material, comprising: a pair of cooperating rollers positioned to engage the opposite faces of sheet material moving along said defined path so that such sheet material must pass between the rollers; means mounting one of said rollers for movement toward and from the other; a body of paramagnetic material fixed with respect to the axis of one of the rollers and positioned to be directly adjacent to one face of the sheet material being carried along by the conveyor means, a magnet firmly fixed with respect to the axis of said other roller and positioned to lie directly adjacent to the other face of the sheet material passing between the cooperating rollers, the poles of said magnet being in juxtaposition to said body of paramagnetic material so that the strength of the magnetic attraction between the magnet and said body of paramagnetic material depends solely upon the spacing between the

rollers; biasing means acting upon the movable roller and yieldingly urging the same away from the other, said biasing means being overpowered by the magnetic attraction between the magnet and said body of paramagnetic material as long as the spacing between the rollers does not exceed a predetermined critical distance but moving the rollers farther apart the instant the spacing therebetween exceeds said predetermined critical distance; and means actuated by the separation of the rollers by the biasing means and operable in consequence to such actuation to effect the desired response of the control instrumentalities.

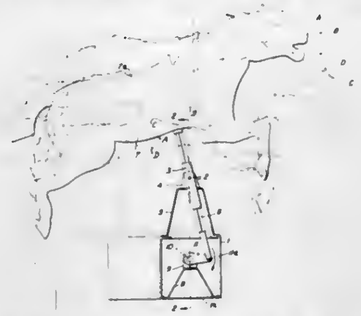
2,637,553
SHEET DELIVERY APPARATUS FOR PRINTING MACHINES
Arthur Willard Ranger, Brighton, England
Application April 8, 1948, Serial No. 19,848
In Great Britain April 8, 1947
9 Claims. (Cl. 271—79)



1. A flat-bed printing machine comprising an impression cylinder continuously rotatable at a variable speed, a piling table, an endless chain conveyor for delivering printed sheets from the impression cylinder to the piling table, said endless chain conveyor being composed of two sections hinged at their adjacent ends for permitting either section to be raised and lowered as required, means for driving one of the sprocket shafts of the conveyor from the shaft of the impression cylinder, said driving means including a variable speed gear for synchronizing the speed of the conveyor with that of the impression cylinder, said driving means also including a clutch, and means for controlling said clutch to effect the engagement and disengagement of said driving means when either of said conveyor sections are respectively lowered or raised.

2,637,554
MECHANICAL HOBBYHORSE
James Henry Terreson, Pascagoula, Miss.
Application December 13, 1950, Serial No. 200,629
4 Claims. (Cl. 272—53.1)

1. An amusement and exercising machine comprising an enclosed rigid housing, a pair of brackets mounted in horizontally spaced relation within said housing, aligned bearings carried by said brackets, a crank shaft rotatably journalled in said bearings for rotation about a horizontal axis, means for rotating said shaft comprising an electric motor and speed reduction gearing operatively connecting said motor to said shaft, said shaft having a pair of oppositely directed cranks mounted on the ends thereof, a trunnion cradle supported on said housing above each of said cranks, tubular guides having laterally extending trunnions supported in said respective cradles for oscillation about aligned horizontal axes, a rigid plunger slidably arranged within each of said guides, the lower ends of said plungers projecting into said housing and being operatively connected with said respective cranks to receive circular movement therefrom, and an animal figure carried directly by the upper exterior end of each of said plungers, whereby the movement imparted to said plungers by the action of their respective cranks and guides will produce movement of said figures in a manner closely resembling the galloping action of a quadruped.

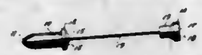


2,637,555
EXERCISE BAR
Helmuth R. Klaudt, Menno, S. Dak.
Application July 7, 1950, Serial No. 172,590
1 Claim. (Cl. 272—62)



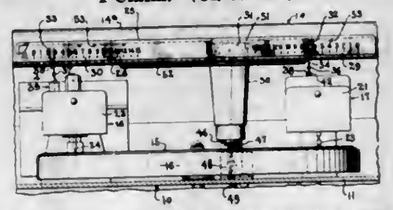
An exercise bar for temporary horizontal insertion in a doorway or the like, comprising a substantially centralized portion of uniform outside diameter, a pair of extensible end portions extending from said centralized portion, axially outwardly facing generally cup-like insert securing members mounted to the outer ends of said extensible end portions, screw thread means interconnecting said centralized portion and said extensible end portions, one of said screw thread means having righthand threads, and the other of said screw thread means having lefthand threads to extend or retract said extensible end portions equally upon rotation of said centralized portion to install or remove said exercise bar while maintaining said centralized portion substantially centrally disposed, and an axially apertured resilient annular insert disposed within each of said cup-like members, each said insert having a substantially uniform thickness greater than the depth of its associated cup-like member, the central portion of each annular insert projecting outwardly beyond the outer margin thereof and spaced outwardly from the adjacent central surface of the associated cup-like member to provide a readily flexible central portion facilitating initial positioning and adjustment of the exercise bar in a doorway or the like, and said central portion of each insert being urged inwardly to contact the adjacent central surface of the cup-like member as the centralized portion is rotated to positively fix the exercise bar in adjusted position.

2,637,556
SCORING GAUGE FOR BULLET HOLES
Charles H. Daughraty, East Chelmsford, Mass.
Application November 18, 1949, Serial No. 128,137
5 Claims. (Cl. 273—102)



1. A device of the character described comprising a scoring plug adapted to be fitted into a bullet hole in a target, a handle, and a flexible wire cable interconnecting the plug and the handle.

2,637,557
OPTICAL LOG SYSTEM
Robert L. Stone, Lake Worth, Fla., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application February 21, 1948, Serial No. 10,107
1 Claim. (Cl. 274—1)



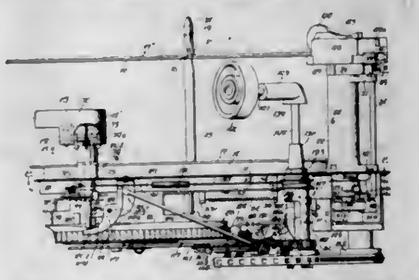
In a sound recording and reproducing apparatus, a cabinet, a turntable for supporting a flat circular disk record to rotate above said cabinet, a driven recording arm and a free moving playback arm pivotally mounted on vertical shafts secured to said cabinet to swing across said record at opposite sides of the center thereof, a stylus-carrying head flexibly secured to said recording arm, a stylus carrying head flexibly secured to said playback arm, each of said heads carrying an upstanding vertical pointer, a light-transmitting elongated scale located at the front of said cabinet closely adjacent the paths of each of said pointers, a single lamp at the rear of said cabinet for illuminating both ends of said scale for causing said pointers to cast two sharp shadows with substantially no parallax on the opposite ends of said scale for indicating simultaneously the distances which both of said styluses have travelled inwardly from the periphery of said record, a reflecting shield embracing the rear of said lamp, and a triangular baffle located between said lamp and said heads and above said record to prevent the light emitted by said lamp from shining on the surface of said record.

2,637,558
AUTOMATIC RECORD CHANGER PHONOGRAPH WITH MOVABLE LOADING SUPPORT AND STACK ALIGNING MEMBER
Berne N. Fisher, Roselle, N. J., assignor to General Instrument Corporation, Elizabeth, N. J., a corporation of New Jersey
Application March 5, 1949, Serial No. 79,834
16 Claims. (Cl. 274—10)



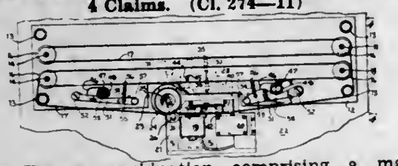
1. An automatic record changer comprising a frame, a turntable, a spindle centrally mounted with respect to said turntable, having a shoulder, and adapted to engage a stack of records at their central apertures and hold them on its shoulder above said turntable, dropping means active upon said records for causing them to drop one by one to the turntable, a stack aligning member engageable with the top surface of the uppermost record of said stack so as to keep said records at predetermined inclination as they are held on the shoulder of said spindle, the lower surface of the lowermost record of said stack when at said predetermined inclination being free and unsupported except at said spindle shoulder, a loading support movable between a record supporting and a record changing position, said support in said record supporting position being under the lowermost record of said stack, spaced vertically therefrom when said record is held in predetermined inclination on said spindle above said turntable and adapted to be engaged by and support said lowermost record when said stack is tilted from predetermined inclination on said spindle, said support in said record changing position being spaced outwardly from said spindle with respect to said record supporting position so that records are permitted to drop to said turntable, and an actuating mechanism operatively connected to said dropping means and said loading support and effective to cause said support to move from its record supporting position to its record changing position when said dropping means is actuated to cause a record to drop from its spindle-held position to said turntable and to move back to its record supporting position after said record has dropped to the turntable.

2,637,559
AUTOMATIC PHONOGRAPH
Sven A. Stolberg, Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application August 6, 1947, Serial No. 766,717
14 Claims. (Cl. 274—10)



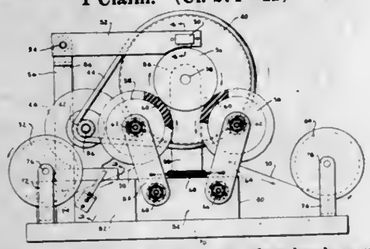
1. In an automatic phonograph including a record changing mechanism, means for supporting a stack of unplayed records above said turntable in a record stack, a main rotatable cam, means for rotating said cam one revolution during each record changing cycle, means including a cam follower and auxiliary rotatable cam mounted on said cam capable of causing said cam follower to complete one cycle of movement thereof during each two revolutions of said main cam, and means including two reciprocating cams and means selectively to engage one or the other of said reciprocating cams with said auxiliary cam, each of said reciprocating cams being effective when so engaged for rendering said auxiliary cam effective to release one record from said record stack selectively either during every revolution of said main cam or for every two revolutions of said main cam.

2,637,560
SOUND REPRODUCING DEVICE USING ENDLESS RECORDING TAPES
Graham P. Smith, Chicago, Ill., assignor to Powell Announcer Corporation, Chicago, Ill., a corporation of Illinois
Application December 20, 1949, Serial No. 134,020
4 Claims. (Cl. 274—11)



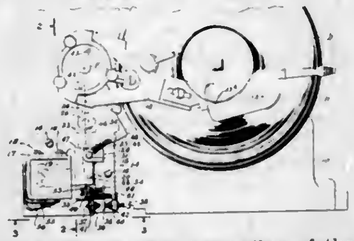
1. For a combination comprising a main mounting plate, a second mounting plate upon said main plate, means connecting the second plate to the main plate for slidable movement upon said main plate, a film gate carried by and movable with the second plate, a sound head carried by the main plate, a sound tape carriage, means removably connecting the carriage to the main plate for slidable movement upon said main plate, means providing a connection between the carriage and the second plate whereby upon slidable movement of the carriage in one direction relative to the main plate said second plate will be moved relative to the main plate in a direction to dispose the gate in tape retaining position with respect to the head, latch means pivotally carried by said carriage adjacent said removable connecting means and actuated thereby to latch said carriage upon said main plate, said latching means having vertical tape engaging fingers adapted to engage a web portion of sound tape carried by said carriage to disposed said tape from between said gate and said sound head when said carriage is in unlatched position, said fingers adapted to be pivoted out of engagement with said tape to position the same between said gate and said sound head by slidable movement of the carriage relative to said main plate and in latched position with respect thereto.

2,637,561
METHOD AND MEANS OF MAGNETIC RECORDING AND REPRODUCING SOUND
Lawrence H. Connell, Detroit, Mich.
Application February 8, 1947, Serial No. 727,424
1 Claim. (Cl. 274—11)



In a magnetic recording or play-back apparatus, supply means for supporting a quantity of resilient, longitudinally stretchable, elongated record element, take-up means for receiving the record element from said supply means, a capstan, means for driving the capstan, a first roller intermediate said supply means and said capstan, a second roller intermediate said take-up means and said capstan, said rollers having surface portions formed of yieldable material in pressure contact with circumferentially spaced parts of the surface of said capstan, said record element extending from said supply means to and partly around said first roller, thence around that portion of said capstan intermediate its circumferentially spaced surface parts in contact with said rolls, thence partly around said second roll and thence to said take-up means, a sound head positioned to engage that portion of the record element on the surface of said capstan midway between said rolls, said rolls being operative to absorb the energy of vibrational and other axial expansion and contraction originating in the portions thereof intermediate said supply and take-up means and the rollers adjacent thereto and to isolate the portions of the record element in contact with the surface of said capstan from the portions between said capstan and said supply and take-up means.

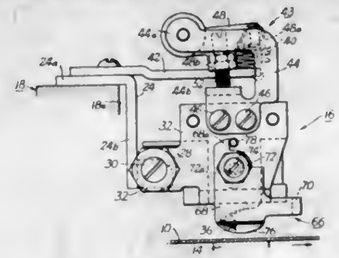
2,637,562
STEPBACK MECHANISM FOR DICTATING MACHINE PLAYBACK ARMS
Donald F. Balmer, East River, Madison, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application March 15, 1951, Serial No. 215,698
5 Claims. (Cl. 274—14)



1. In a phonographic transcriber of the type having a reproducing arm pivotally mounted to swing across a rotating grooved disk record, a sector plate on said arm having an arcuate depending flange concentric with the pivotal axis of said arm, a rigid cylindrical anvil located between said flange and said axis, a movable clapper lever having a knife edge located adjacent the other side of said flange and electromagnetic means connected to said clapper lever to cause said knife edge to bitingly engage said flange and press it against said anvil and subsequently, swing said sector plate to step back said playback arm with respect to the grooves of said record.

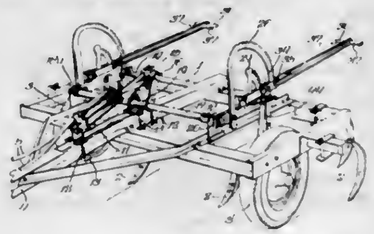
2,637,563
STYLUS-PROTECTING DEVICE
Joseph A. Rescsanski and John Ronald Hopkins, Bridgeport, Conn., assignors to Dictaphone Corporation, Bridgeport, Conn., a corporation of New York
Application July 30, 1949, Serial No. 107,796
2 Claims. (Cl. 274—25)

2. In a sound recording-reproducing machine having an electro-mechanical translating device, including a stylus adapted for engagement with and removal from record elements insertable into and removable from said machine only in an edgewise manner perpendicular to the direction of relative motion between said stylus and said record elements during translating operation stylus protecting means comprising, an element having at least one downwardly projecting contact portion adapted for engagement with said record elements at a point spaced from said stylus in the direction from which said record elements are inserted, said contact portion being formed at its lower end to present a first surface inclined downwardly in the direction of move-



ment of said record elements during translating operation and a second surface inclined downwardly in the direction of movement of said record elements during insertion.

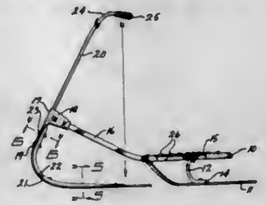
2,637,564
IMPLEMENT LIFT
John E. Stratman, Holdrege, Nebr.
Application October 8, 1949, Serial No. 120,359
2 Claims. (Cl. 280—6)



2. An implement lift adapted for use on a farming implement having a pair of spaced wheels and separate wheel mounting means movable relative to the implement comprising, in combination, a shaft extending transverse the implement, a pair of wheel lift bars attached to said shaft, said lift bars extending normal to said shaft and respectively disposed above the wheel mounting means, power means for rocking said shaft to raise and lower the wheel lift bars, an outer toothed quadrant fixed to each wheel lift bar and movable therewith, a manually operable lever pivoted to each lift bar and having a first dog releasably engaging said outer toothed quadrant for positioning said lever relative to said lift bar, an inner toothed quadrant pivoted on each lift bar, a second dog carried by each manually operable lever for positioning the lever relative to said inner quadrant, and a link connecting each inner quadrant and a wheel mounting means whereby said power means may raise or lower the wheels and the manually operable levers may further position the wheels relative to each wheel lift bar.

2,637,565
SKI SLED
Gerald F. Lantry, Detroit, Mich.
Application September 16, 1949, Serial No. 116,003
3 Claims. (Cl. 280—16)

1. A ski sled comprising a foot platform, runners positioned beneath said platform and attached at their upwardly curved foreward ends to said platform in supporting relation thereto, braces secured to said runners at a point permitting the rear portion of the said runners to flex upwardly and secured to said platform in supporting relation thereto, a laterally flexible connecting member secured to said platform, a sleeve secured to the foreward end of said connecting member, a steering column positioned within said sleeve, a ski having its foreward upwardly



curving end disposed in overlapping relation with said sleeve, means securing together said sleeve, said ski, and said steering column, means mounted on the upper end of said steering column for axially oscillating same, and hand grips on said means positioned at such a point as to place the hand grips in the vertical plane of the center of gravity of the entire ski sled so that the ski sled when lifted by the hand grips remains balanced in a horizontal plane.

2,637,566
AUTOMOBILE HITCH
Lloyd M. Nichols, Pittsburg, Kans.
Application March 23, 1951, Serial No. 217,193
3 Claims. (Cl. 280—33.13)



2. A device for coupling vehicles together, said device being adapted to attach to vehicle bumpers and including a one-piece bar with an integral saddle at each end to contact the outer surface of the vehicle bumpers, means at one end of the bar to couple with the bumper of one vehicle, and means at the other end of the bar to attach to the bumper of the other vehicle, said last-mentioned means including a collar slidably disposed on said bar and having an arm fixed at one end thereto, a hook-shaped jaw at the outer end of said arm, a second arm pivoted to said collar, a hook-shaped jaw at the outer end of said second arm, said bar having a slot therein, and a keeper fixed to said second arm and extending into said slot by way of an aperture in said collar to prevent said collar from rotating on said bar.

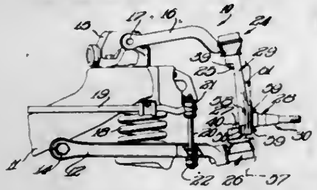
2,637,567
DETACHABLE WHEEL UNIT FOR TRANSPORTING BOATS
William W. Singleton, Pontiac, Mich., assignor to Trail-A-Boat Company, Pontiac, Mich.
Application October 29, 1949, Serial No. 124,300
5 Claims. (Cl. 280—47.32)

1. A trailer gear comprising corresponding frame structures each including a head, means for securing the head to a side of the trailer, arms diverging downwardly from the head, corre-

sponding U-shaped members arranged in oppositely disposed relation each having inclined parallel arms, each of said last named arms secured to a corresponding one of the diverging arms, brackets connecting the adjacent arms of the U-shaped members, tie rods connecting corresponding arms of said re-shaped members for trussing the frame, a fastening member on one of the tie rods for cooperation with a fastening member on the side of the trailer, a wheel mounted for rotation on the brackets, and a fender supported on the U-shaped members above the wheel.



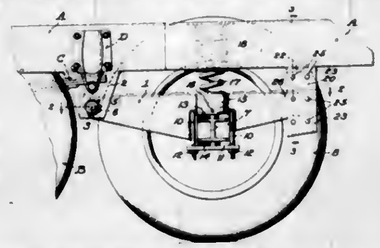
2,637,568
STEERING KNUCKLE
James H. Booth, Corunna, and Albert W. Gair, Fraser, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 11, 1951, Serial No. 220,458
2 Claims. (Cl. 280—96.2)



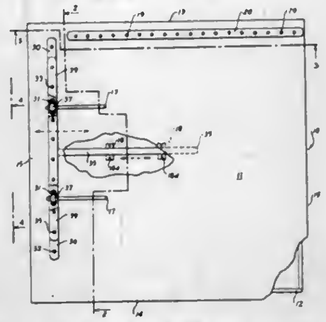
2. A steering knuckle assembly comprising a spindle support having upper and lower integral end bosses with axially aligned tapered holes in the bosses for fixedly receiving the studs of supporting ball joints, said spindle support having a pierced, generally triangular shape with the upper integral end boss forming one corner of said triangle and with said lower integral end boss lying approximately midway between the remaining corners of said triangle, said spindle support having an integral rectangular attachment pad thereon, and further having integral longitudinal reinforcement ribs extending downwardly from said upper integral end boss along the edges of said triangle for approximately half the length of said spindle and then converging to join said lower integral end boss, and a wheel spindle having an attachment pad for cooperation with said spindle support attachment pad whereby said spindle support and spindle may be fixedly secured together.

2,637,569
TANDEM SUSPENSION FOR TRACTORS AND TRAILERS
Guy Manning Turner, Greensboro, N. C.
Application June 27, 1951, Serial No. 233,768
6 Claims. (Cl. 280—124)

1. In combination with a vehicle body supported by wheels and having side members extending beyond the rear wheels; an auxiliary tandem suspension unit comprising parallel walking beams disposed below the side members respectively adjacent to the vehicle wheels, an axle carried by said walking beams; auxiliary wheels journaled on said axle, brackets secured to the side members and having spaced side walls receiving the forward ends of the walking beams, bolts transfixing the side walls of the brackets and passing through the forward ends of the walking beams, guide boxes secured to the side members and having spaced side walls receiving the rear ends of the walking beams, parti-cylindrical plates on the sides of the walking beams within the guide boxes; compression springs interposed between the side members and the walking beams adjacent their mid-lengths, the walking beams thereby thus permitted vertical swinging movement and restricted lateral and twisting movement on said bolts under stresses due to road strains; said walking beams having recesses in their lower faces receiving said axle, bolts secured to said beams and projecting below said axle, cap plates on said bolts retaining the axle in said recesses, and resilient pads disposed between the axle, the tops of the recesses, and the cap plates.



2,637,570
ORDER BOARD
Thomas C. Griffin, Denver, Colo.
Application March 26, 1949, Serial No. 83,671
6 Claims. (Cl. 281—1)



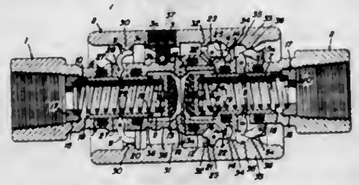
1. In an order board assembly for use in positioning order forms and the like, in which the assembly includes a flat base portion having marginal supporting means on its under surface and a plurality of spaced pins carried by the base portion extending along, adjacent, and substantially parallel to the upper edge of the base portion, and in which a bar having a plurality of holes adapted to register with said pins is removably mounted upon the pins to hold order forms in place upon the board, said bar having friction-creating means for maintaining it in position against accidental removal from the pins, the improvement which comprises an elongated plate mounted upon the base portion adjacent the left side edge thereof and adjustable relatively to the base portion and said spaced pins in two directions at substantially a right angle to one another, said elongated plate having a plurality of pins projecting outwardly therefrom for receiving and holding order forms, the adjustability of said plate permitting the last-named order forms to be aligned as to the columns and lines of figures thereon with the corresponding columns and lines of figures of the order forms held in position upon the base by the first-named spaced pins and bar.

2,637,571
CHECK BOOKLET
James O. Tilly, Tulsa, Okla.
Application May 26, 1952, Serial No. 289,992
2 Claims. (Cl. 281—5)



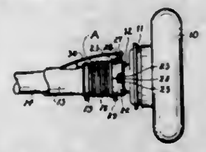
1. A booklet of detachable checks, comprising: a sheet of material folded upon itself along an imperforate fold line to define a front cover and a back cover, a narrow integral tab extending along an edge of said back cover and folded inwardly along said edge along a second imperforate fold line, a series of check blanks integrally joined together, a row of perforations between adjacent check blanks, said check blanks being folded along said rows of perforations to lie in superposed relation between said covers, an edge of one of said check blanks being integrally joined to said tab, a row of perforations defining said edge of said check blank at its juncture with said tab, said check blanks being of substantially the same dimensions and lying wholly between said covers and wholly inwardly of the edge thereof to which said tab is joined.

2,637,572
SELF-SEALING COUPLING
John N. Bruce, Edgewood, Md., assignor to the United States of America as represented by the Secretary of the Army
Application July 14, 1950, Serial No. 174,474
5 Claims. (Cl. 284—4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A coupling comprising a pair of separable coupling halves, each of said coupling halves comprising in combination, a tubular member having a valve seat on one end, the tubular member of one of said coupling halves having a bell-shaped portion extending outwardly from the valve seat end thereof and encircling the valve seat end of the tubular member of the other coupling half, a valve body mounted in each of said tubular members, axially slidable relative thereto and when disconnected, positioned upon said valve seats thereby closing the conduit formed by the tubular members, means forming apertures in the walls of said tubular members, operating means pivotally mounted on each of said tubular members, having an outwardly protruding portion and an inwardly protruding portion extending through the apertures in said walls to actuate said valve bodies, latches pivotally mounted on said bell-shaped portion, each of said latches having an outwardly extending portion and an inwardly extending portion, lip means carried on the outer periphery of the tubular member of said other coupling half and engaged with the inwardly extending portion of said latches, means associated with said latches urging them to rotate about their pivots to their locking position, a sleeve mounted on the tubular member of said latch carrying coupling half and slidable relative thereto from a first position to a second position, beads mounted on the inside of said sleeve and positioned axially with respect to each other to simultaneously actuate the operating means on both tubular members when the coupling halves are coupled and the sleeve is in the second position, and inwardly projecting means also mounted on the inside of said sleeve engaged with the outwardly extending portions of the latches when the sleeve is in the first position thereby preventing the said latches from assuming their locking positions, said projecting means being also so positioned with respect to the beads that as the said sleeve moves from the first position to the second position it disengages from the latches prior to engagement of said beads and operating means when the halves are coupled; and conversely the beads and operating means are disengaged prior to engagement of the extending portion of said latch means and said projecting means as the sleeve moves from the second position to the first position.

2,637,573
BEARING SEALING ASSEMBLY
Arthur L. Cochrane, Powell River, British Columbia, Canada
Application June 27, 1949, Serial No. 101,647
5 Claims. (Cl. 286—11)

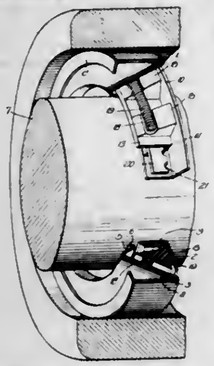


1. A bearing sealing assembly for a rotatable hub where it comes against a stationary part, comprising a bearing sleeve rotatably mounted on a hub, said sleeve being formed in two half sections removably secured together, a bellows extending from an end of the sleeve to a stationary part, means connecting the free end of the bellows to the stationary part to seal said end, means for preventing the sleeve from rotating with the hub, a groove formed in the inner surface of the sleeve substantially midway between the ends thereof, and a concentric shoulder formed on the hub and fitting into said groove.

2,637,574
FLUID SEAL
Karl L. Diehl, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill., a corporation of Illinois
Application March 24, 1950, Serial No. 151,744
7 Claims. (Cl. 286—11.11)

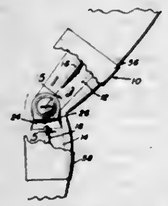
1. In a device for sealing the space between a rotating shaft and a housing through which the

shaft projects; a stationary member sealingly engaging the housing; a rotary member sealingly engaging the shaft and comprising: a metallic member consisting of a cylindrical portion engaging the shaft and an annular member projecting radially outwardly therefrom; an elastomer sealing element consisting of a cylindrical portion bonded to the cylindrical portion of said metallic member, an annulus integral with said cylindrical portion and disposed alongside of the annular portion of said metallic member, and an outer cylindrical portion integral with said annulus and extending therefrom coaxially of said



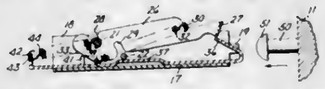
shaft and terminating in a lip-like portion; a spring encircling said outer cylindrical portion and tensioned to urge said lip-like portion into sealing engagement with said stationary member so long as said shaft rotation is below a critical speed; and a plurality of spaced apart wedge-shaped lugs integral with said outer cylindrical member and forming therewith a slinger for setting up fluid turbulence between said stationary member and said rotating member when the shaft is rotating above said critical speed and centrifugal force has deflected said outer cylindrical member against the tension of said spring and out of engagement with said stationary member.

2,637,575
KNEE GUARD OR BRACE
Ross O. S. Shook, Hutchinson, Kans.
Application April 30, 1951, Serial No. 223,724
2 Claims. (Cl. 287—101)



1. A limb brace comprising first and second plate members having end portions thereof disposed in overlapping relation, said end portions of said plate members having annular recesses depressed in the registering faces thereof and providing concavo-convex annular bearing races, a first anti-friction bearing assembly disposed in the registering recesses in said end portions, said end portions having axially aligned openings therein concentric of said races, an internally threaded sleeve, an enlarged cap on said sleeve, said sleeve extending through said aligned openings, a headed stud threadedly attached to said sleeve with the head having means engaging the end portion of the plate opposed to the end portion engaged by said cap, a second bearing assembly having a relatively smaller diameter than said first bearing assembly disposed on said sleeve between said cap and the adjacent end portion, said second bearing assembly being disposed within the confines of the convex face of the bearing race of the end portion against which it abuts, said cap having an annular groove therein in the face thereof which registers with the adjacent end portion, said second bearing assembly being seated in said groove, said cap having a convex face on the side thereof opposed to that which registers with the adjacent end portion of the plate, said convex face of the cap fairing into the outer portion of the convex face of the bearing race in said adjacent end portion.

2,637,576
AUTOMATIC LATCH FOR TWO RELATIVELY MOVABLE MEMBERS
Ralph K. Nottingham, Portland, Oreg., assignor to Phillips Tutch Latch Co., New York, N. Y., a corporation of Delaware
Application July 25, 1949, Serial No. 106,648
5 Claims. (Cl. 292—99)

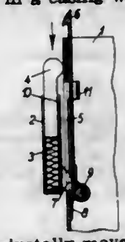


4. In a latching device for a pair of relatively movable members, which device is of the type wherein the latched members are held in a slightly spaced apart condition and unlatching is effected by a slight further movement of said members together beyond the latched position, said device including an elongated catch element adapted to be mounted on one of said members and having a forwardly extending head and a rearwardly facing abutment behind said head, a latching unit including an elongated housing, said latching unit adapted to be mounted on the other of said members for cooperative engagement by said catch element, said latching unit including an elongated latch means pivotally mounted in said housing and having a hook end portion adjacent the forward end of said housing for cooperatively engaging said catch abutment, an elongated plunger means for controlling said latch means slidably mounted within said housing, means interconnecting said plunger and said latch means whereby latching and unlatching movements of said latch means are effected in response to corresponding movements of said plunger means, the forward end of said plunger means extending adjacent the forward end of said housing for engagement and actuation by the head of said catch element.

2,637,577
SAFETY LOCK FOR LIGHTER LIDS
Robert Wiessner, Vienna, Austria, assignor to Arthur Dubsky, Elmhurst, N. Y.
Application February 18, 1948, Serial No. 9,073
In Germany May 2, 1939
3 Claims. (Cl. 292—122)

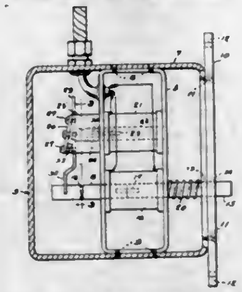
1. In a latch mechanism release means adapted for use with a latch for a spring operated lighter cover, said latch mechanism release means com-

prising a push of variable length pivotally connected to said casing and protruding out of a lateral opening in a casing wall, said push being



adapted to be pivotally moved inwardly through said opening, for operating said latch so as to release said cover, when and only when said push has been reduced to its smallest length.

2,637,578
ELECTRICALLY CONTROLLED LOCK
Rafael C. Gaona, Tijuana, Baja California, Mexico
Application May 28, 1951, Serial No. 228,550
1 Claim. (Cl. 292—144)



In a door lock an elongated bolt mounted to move longitudinally, yielding means mounted adjacent and engaging the bolt for projecting it, electro-magnetic means surrounding said bolt for retracting it against the effort of the yielding means, said bolt having a groove extending therearound and opening through the periphery thereof, a keeper mounted above the bolt to move by gravity into the groove and hold the bolt retracted against the effort of the yielding means, said keeper having an opening extending therethrough, an elongated plunger mounted above the bolt to move longitudinally in parallel relation to the bolt, yielding means mounted adjacent and engaging the plunger for projecting it, electro-magnetic means encircling the plunger for retracting it against the effort of the second mentioned yielding means, and an inclined finger carried by the plunger and projecting longitudinally therefrom through the opening in the keeper for engaging a wall of said opening and lifting the keeper when the plunger is moved longitudinally against the effort of the second mentioned yielding means.

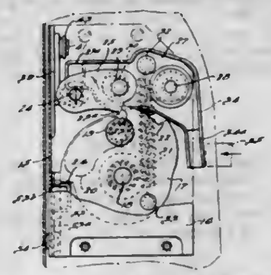
2,637,579
SAFETY LATCH
Charles D. Best, Fresno, Calif.
Application November 28, 1950, Serial No. 197,898
5 Claims. (Cl. 292—203)

1. A latch comprising a plate, and means mounted on the plate adapted swivelly to mount the plate on a closure member, said plate having a blade extended in substantially right angular relation therefrom in spaced relation to the



mounting means and a locking pin receiving slot formed in the plate intermediate the mounting means and blade.

2,637,580
DOOR LOCK
John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application August 18, 1944, Serial No. 550,036
3 Claims. (Cl. 292—229)

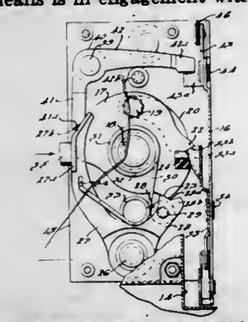


1. In a door latch, a rotatable plate having a latch bolt projecting therefrom at a point offset from the axis of rotation of the plate, a lever fulcrumed intermediate its ends, a shiftable detent adapted to lock said plate in a latching position of the bolt, an operative connection between the lever and detent, and manually operable means engageable with each end of the lever for selectively swinging the same to shift the detent to release said plate.

2,637,581
DOOR LATCH
John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application January 11, 1945, Serial No. 572,360
7 Claims. (Cl. 292—229)

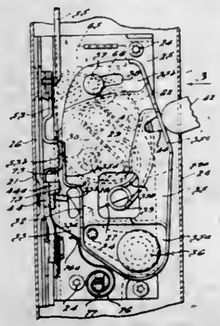
1. In a door latch mechanism, a support having a plate portion for disposition at the free edge wall of the door and having a flange extending from the inner edge thereof, a rotatable latch device having spaced abutments, means mounting said latch device on said plate portion for movement about an axis normal to the plane of the plate portion, detent means pivotally mounted on said plate portion for movement about an axis substantially parallel to the axis of said latch device, said detent means being engageable with first one and then a second of said abutments upon said latch device being rotated in one direction to first and second predetermined positions, said detent means upon

engagement with said abutments preventing rotation of said latch device in the opposite direction, locking means pivotally mounted on said support and engageable with said first one of said abutments for locking said latch device in said second predetermined position in which said detent means is in engagement with said second



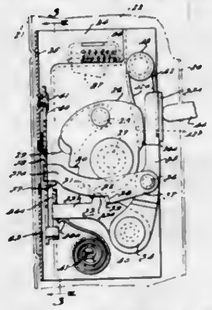
abutment, means for shifting said locking means into and out of engagement with said latch device, and manually operable means including a lever pivotally mounted on said plate portion for movement about an axis parallel to said latch device axis and connected to said detent means for disengaging the same from said latch device without disturbing said locking means.

2,637,582
DOOR LOCK
John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application June 24, 1946, Serial No. 678,991
30 Claims. (Cl. 292—229)



1. In a door control mechanism a movable latch unit supported for movement between a door latched position and a door unlatched position, spring means for urging said latch unit at all times toward said door unlatched position, a movable detent adapted releasably to maintain said latch unit in door latched position and having a latch released position and a latch holding position, locking means for preventing release of said latch unit for movement by said spring means from door latched position to door unlatched position, said locking means having a latch unlocked position and a latch locked position, means effective when said latch unit is out of door latched position for holding said locking means out of latch locked position in an intermediate position, and means, effective when said locking means is in said intermediate position, for moving said locking means from said intermediate position into said locked position upon movement of said latch unit into door latched position.

2,637,583
DOOR LOCK
John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application April 26, 1947, Serial No. 744,241
15 Claims. (Cl. 292—229)



1. In a latch mechanism for a swinging door, a support having a plate portion adapted to face the jamb of the door and provided at its inner edge with a flange portion, a latch device pivotally mounted on said plate portion, detent means pivotally mounted on said plate portion for holding said latch device in door latching position, a lever pivotally mounted on said plate portion and having a part swingable toward said flange portion, outer manually operable means for swinging said lever, link means mounted for swinging movement, operable by said lever and normally operatively coupled to said detent means, and inner manually operable means on said flange portion for swinging said link means into and out of coupled relation with said detent means.

2,637,584
LOCK HASP
Wallace E. Atkinson, Petersburg, Va., assignor to Long Manufacturing Company, Inc., Petersburg, Va., a corporation of Virginia
Application May 29, 1951, Serial No. 228,903
5 Claims. (Cl. 292—281)



1. A hasp for locks formed of a single blank of sheet material and comprising an elongated body having a tongue plate comprising a turned back portion of one end of said body disposed in intimate overlying relation with the rear face of said body, turned flanges extending along each longitudinal edge of said body, said flanges being bent into perpendicular relation to said body to project rearwardly therefrom, and a keeper tongue formed from an outturned terminal portion of said tongue plate projecting perpendicularly from the rear face of said body, said tongue having notches formed in the opposite lateral edges thereof for cooperation with the keeper element of a lock.

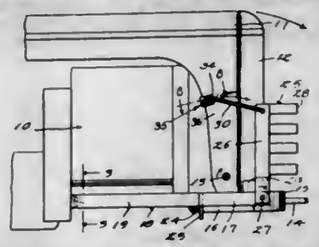
2,637,585
LOCKING-BOLT OPERATING STRUCTURE
Herman J. Troche, Cleveland Heights, and James Howard Holan, Rocky River, Ohio, assignors to J. H. Holan Corporation, Cleveland, Ohio, a corporation of Ohio
Application January 30, 1948, Serial No. 5,245
1 Claim. (Cl. 292—336.3)



A locking-bolt operating structure, for a closure having a recess breaking its surface, comprising a dished plate for the recess having a marginal portion abutting the outer face of the closure, opposed bearings in contact with the inner face of the side wall of the plate, a rod pivotally mounted in the bearings and intersecting the plate side wall for turning movement therein, bolt-actuating means, an elongated bearing secured to the exterior face of the plate side wall, the rod being extended through said elongated bearing and secured at one end to the bolt-actuating means for operation of the latter on turning movement of the rod, and a panel covering the rod and having its exterior face substantially flush with the marginal portion of the plate, the panel having flanges secured to the rod to turn the latter.

2,637,586
HITCH AND GRILL GUARD ATTACHMENT FOR TRACTORS
Edward N. Meyer, Ada, and Harold J. Steiner, Pandora, Ohio
Application May 19, 1950, Serial No. 162,930
2 Claims. (Cl. 293—69)

1. In a grill guard for mounting on the front of a tractor having a hood pivoted at its forward lower end, a V-shaped bar provided with rearwardly extending spaced parallel arms, a link secured to each of said arms and including a rearwardly converging section, the rear ends of said sections being bent inwardly for the projection therethrough of a securing element, a horizontally disposed angle iron extending between said links and secured thereto, a grill pivotally connected to the front end of said links and including a pair of spaced parallel upright standards, a plurality of spaced parallel V-shaped brackets extending between said standards and



secured thereto, links pivotally connected at one end to the upper ends of said standards, and a clamp connected to the rear end of each of said links securing said links to the tractor hood.

2,637,587
ELECTRIC BULB REMOVER
Roy Cecil Robinson, New York, N. Y.
Application July 1, 1952, Serial No. 296,616
2 Claims. (Cl. 294—26)

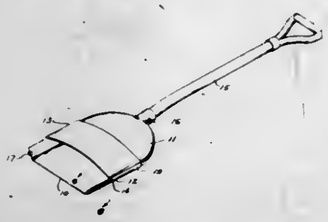


1. An electric bulb remover comprising a flexible rubber suction cup mounted upon an end of a rigid pole and shaped to receive the enlarged end of an electric light bulb; said cup having a plurality of contractable circular shaped dilations located along it's neck and air-escape holes provided in it's circular wall; and means provided for closing said holes, said means including a flexible trap-cover for each hole, said trap-covers partially attached to exterior surface of circular wall of said cup and each having a greater un-attached portion extending downward freely over the area of each hole exceeding in size the entire area of each hole.

2,637,588
DUSTLESS ASH SCOOP
Joan Burke, East Cleveland, Ohio,
Application May 6, 1948, Serial No. 25,507
1 Claim. (Cl. 294—55)

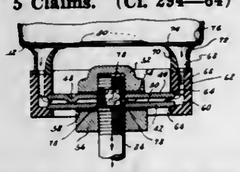
A device of the character described comprising a cover of convex form with means for attaching securely over and to the body of a scoop shovel, said cover consisting of a base part with the edge

portions of its parallel sides inclined downwardly and slightly inward, said base part extending across said shovel body and attached on and over the sides of the shovel body by means of the said inclined edges, said base part also further attached to said shovel body by means of an extend-



ing portion clamping around the handle of the shovel, a part attached on the foreward portion of the base part by slidable means, and said slidable part when in its forward position forming with the base part a complete cover for the top of the said shovel body.

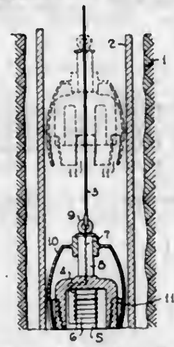
2,637,589
SUCTION CUP AND MOUNTING
Carl G. Schulz, Altadena, and Adam Stuart Kedzie, Los Angeles, Calif.
Application June 29, 1950, Serial No. 171,202
5 Claims. (Cl. 294—64)



1. A suction cup for handling articles with annular contact surfaces, comprising a cylindrical member having an open central portion, the inner wall of said member having a channel therein, said member having an air passage extending from the channel and through one end of the member, a pair of spaced plates having their edges lying in said channel, said spaced plates defining an air passage communicating with said channel, and one of said plates having a port therethrough communicating with the space between the plates and adapted for flow communication with an air line.

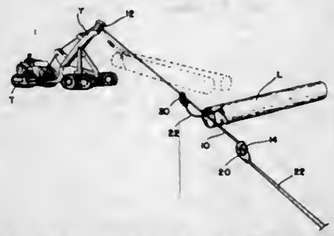
2,637,590
WELL BORE RETRIEVING TOOL
John E. Ortloff, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 8, 1950, Serial No. 148,410
3 Claims. (Cl. 294—65.5)

1. A magnetic retrieving tool for well bores comprising a supporting means attachable to a suspending cable, a shaft element attached to said supporting means, a magnetic element held by said shaft element, a nonmagnetic housing slidably supported on and guided by said shaft element and extending downwardly about said magnetic element, said housing being provided with cut-away openings in its lower edge whereby direct horizontal access is provided through the housing to the magnetic element, said nonmagnetic housing being slidable on said shaft element to a first position in which the lowermost edge of the housing is adjacent the lowermost edge of the magnet and to a second position in



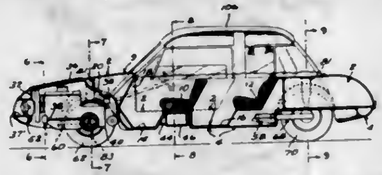
which the lowermost edge of the housing is below the lowermost edge of the magnetic element, said non-magnetic housing normally assuming said second position by force of gravity and sliding to said first position when resting on the bottom of a well bore.

2,637,591
MAIN LINE TERMINAL MEANS FOR LOGGING GEARS
Darel L. Maxfield, Forks, and Albert A. Rue, Beaver, Wash.; said Maxfield assignor to Olger Harry Sandberg, Forks, Wash.
Application August 12, 1949, Serial No. 109,932
2 Claims. (Cl. 294—74)



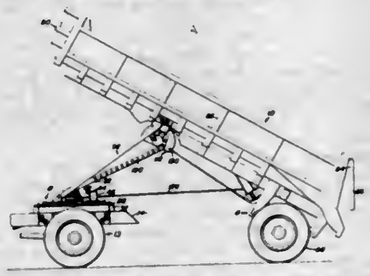
1. A choker for logging, comprising: a choker cable; means for attaching said choker cable to a log at one end of said choker cable; engaging means at the other end of said choker cable, for securing said choker cable to a haul-in cable having a ferrule terminal; said engaging means comprising an elongated unitary body of less thickness than width, said body having a main portion having in one end a tapered axial opening and said choker cable having a conical ferrule end positioned in said tapered axial opening, said main portion having at its second end a large opening passing transversely from face to back of said main portion, said body having an angular portion extending diagonally from said second end of said main portion, said angular portion forming a large obtuse angle with said main portion, said angular portion having a narrow slot, of a size to pass only a cable, communicating with said large opening, the faces of said angular portion being flattened, to accommodate such ferrule terminal on a haul-in cable and other choker members.

2,637,592
AUTOMOBILE BODY STRUCTURE
Henning Kariby, Pittsburgh, Pa.
Application July 7, 1949, Serial No. 103,519
11 Claims. (Cl. 296—28)



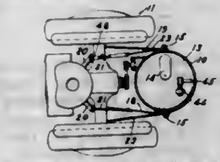
1. A self-framing body structure for private passenger automobiles which comprises an under body section and an upper body section secured together, said sections combining to form integral body-long box beams extending along the body at each side thereof and continuing in curved end portions over the wheels to form fenders, said box beams being formed by overlapping spaced portions of said sections respectively and longitudinally engaging portions on said sections, and said sections also forming an integral body-wide cross box beam by overlapping portions of said sections each constituting an opposite side thereof and being secured together in said box beam structure, said body-long box beams being connected by said cross beams, said upper and under body sections between said fender portions near one end having registering apertures and having between said apertures an annular wall surrounding a space for mounting a motor, and having transverse walls spaced fore and aft, respectively, from said annular wall, whereby said annular wall, transverse walls and fender portions constitute a toroidal ring around said motor space, and motor mounting means on said ring adjacent said motor space.

2,637,593
LIFTING DEVICE FOR DUMP TRAILERS
Edwin A. Schonrock, San Angelo, Tex.
Application January 22, 1951, Serial No. 207,158
19 Claims. (Cl. 298—20)



1. A lifting mechanism for a dump trailer having a load carrying body, a fifth wheel supported on the frame of the cab of said trailer, said mechanism including winch means, a first arm pivotally connected at its ends to said fifth wheel and to said body respectively, a cam lever means rotatably supported upon said body, and having a cam surface thereon, a cable windable on said winch means and connected to said cam lever means and entrained over said cam surface for engagement thereover.

2,637,594
SPRAY UNIT FOR TRACTORS
Raymond T. Spedding, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application June 21, 1949, Serial No. 100,351
2 Claims. (Cl. 299—30)



2. For use on a tractor having a power-take-off pulley having a peripheral power-transmitting surface, a pair of laterally-spaced draw bars and adjusting means for varying the height of said draw bars relative to each other; a sprayer comprising a tank, a pump mounted in said tank, a power input pulley connected to said pump and having a peripheral power-transmitting surface, means for mounting said tank on and between said draw bars with the peripheral surface of said power input pulley disposed in substantially the same transverse vertical plane as the peripheral surface of said power-take-off pulley and laterally spaced from said power-take-off pulley, and an endless drive member at least partially lapping the peripheral surfaces of said power-take-off pulley and said power input pulley, whereby operation of said adjusting means to vary the relative height of the draw bars effects tilting of said implement about a longitudinal axis and adjustment of tension in said endless drive member.

2,637,595
RINSE ARM CONNECTION
Gerald B. Fox and Dewey B. Dickhart, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application October 3, 1946, Serial No. 700,878
3 Claims. (Cl. 299—70)



1. In a dishwasher of the character described having a wash arm mounted for rotation therein and including a hollow hub mounted for rotation with respect to said wash arm and adapted to receive rinse fluid from a source thereof, said hub having an open socket in its side communicating with the interior thereof, and a rinse pipe adapted at one end thereof for connection with said socket and having discharge outlets along one side thereof, the combination of quickly demountable attaching means for said rinse pipe adapted to establish and maintain a predetermined angular relationship of said pipe in said socket wherein said pipe outlets discharge said rinse fluid in a predetermined direction providing a reaction causing rotation of said hub while at the same time impinging on the articles within said dishwasher at effective rinse angles, said means comprising an elongated resilient latch on said pipe adapted to extend a substantial distance exteriorly of said hub beyond the outer end of said socket, a shoulder on said hub forming a keeper adapted for latching engagement with said latch,

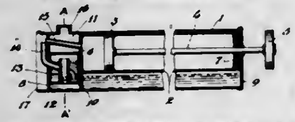
and means on the exterior of said hub intermediate said shoulder and the outer end of said socket for preventing latching engagement of said latch with said shoulder except when said pipe is in said predetermined angular relationship in said socket assuring said predetermined direction of discharge of said rinse fluid from said pipe outlets.

2,637,596

ATOMIZER FOR SPRAYING INSECTICIDE LIQUIDS AND THE LIKE

Constantino Lilienthal, Buenos Aires, Argentina

Application February 10, 1950, Serial No. 143,444
In Argentina July 26, 1949
3 Claims. (Cl. 299—88)



1. A manually operated sprayer for liquids comprising a cylindrical casing, a partition extending across and closing one end of said casing, a cap mounted on and closing the opposite end of said casing and having an opening provided therethrough, a cylindrical pump casing positioned within, spaced from the side and bottom walls of and connected to the interior top of said first casing, a piston slidably mounted in said pump casing, a plug for one end of said pump casing having an opening therethrough, a rod connected at one end to said piston and slidably extending through said cap and plug openings, a plate closing the opposite end of said pump casing and having an opening therethrough, a tube connected to said pump plate opening and extending through said casing partition, a semicircular partition extending laterally within said first mentioned casing and across the lower half of said casing adjacent said pump plate leaving a fluid passage above said partition, a chamber for liquid connected to said first mentioned casing, an inlet tube extending into the upper interior portion of said chamber and into the lower interior portion of said first casing between said casing partition and said semi-circular partition, an outlet tube extending from the lower interior portion of said chamber outwardly with its open end beneath the open end of said pump tube and said first mentioned casing having a filling opening for fluid.

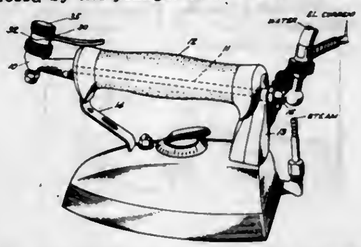
2,637,597

WATER-SPRAY GUN FOR ATTACHMENT TO PRESSING IRONS

Frank H. Richterkessing, Jefferson County, near Louisville, Ky., assignor to W. M. Cissell Mfg. Company, Incorporated, Louisville, Ky., a corporation of Kentucky

Application July 7, 1950, Serial No. 172,608
3 Claims. (Cl. 299—150)

1. A valve structure comprising a body member having a housing for a chamber with a discharge opening in a wall thereof; a sleeve slidably mounted in said housing; means for securing the sleeve to the housing; a valve plunger member slidably mounted for reciprocating axially of said housing and said sleeve for opening and closing said opening; said valve plunger member comprising a head disposed in the sleeve, a valve stem in the housing and a flexible disk sealed at its center between said plunger and said head and its peripheral portion clamped between a seat in the housing and the bottom face of the sleeve; yieldable means for retaining the opening closed by the plunger and means for removing the yieldable means to permit the plunger to open the discharge opening in response to force exerted against the disk by the fluid.

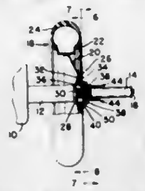


2,637,598

ADJUSTABLE WHEEL AND AXLE ASSEMBLY FOR VARIABLE TREAD VEHICLES

Theophilus Brown and George Ickes, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application November 12, 1949, Serial No. 126,866
10 Claims. (Cl. 301—1)



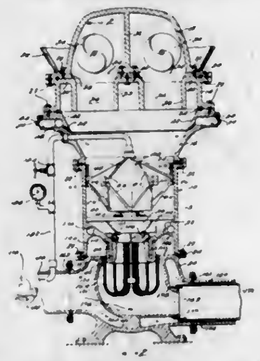
1. An adjustable wheel and axle assembly for use in obtaining wheel tread variation in agricultural tractors and like vehicles, comprising: an elongated, externally threaded axle having an outer end and provided with an external keyway running lengthwise thereof to said end and intersecting the threads; a wheel on the axle, including a hub having a central opening provided with internal threads mating with the external threads of the axle so that rotation of the wheel and hub selectively in one direction or the other relative to the axle effects axial adjustment of the wheel and hub respectively toward or away from the outer end of the axle, said hub having inner and outer radial faces and further having a circle of angularly spaced bolt holes therethrough opening at said faces; a pair of complementary, radially separable members of internally recessed form to embrace the axle adjacent the hub at either side of the hub, at least one of said members having an internal key fitting and slidable lengthwise in the axle keyway, said members having radial portions which, when the members are assembled to embrace the axle, provide a radial face adapted to abut selectively either the inner or outer radial face of the hub, said radial portions of the members being provided with bolt holes on a circle and so spaced angularly as to be registrable with the bolt holes in the hub; releasable means connectible between the members for securely though removably clamping the members together about the axle to constrain the members and axle for rotation together; and a plurality of bolts receivable by the registered bolt holes for rigidly though removably securing the members selectively to either radial face of the hub.

2,637,599

CARBURETOR FOR POWDERED FUEL

Stephen L. Fitzpatrick, Detroit, Mich., assignor to Biokolgas System, Inc., Detroit, Mich., a corporation of Michigan

Application November 24, 1947, Serial No. 787,765
13 Claims. (Cl. 302—56)



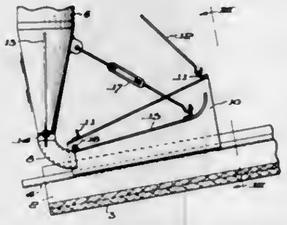
1. A carburetor for powdered fuel comprising a housing having an upper inlet through which fuel is introduced into the housing and a lower outlet through which fuel is discharged from the housing; a valve having a vertical annular passage located in the housing between said inlet and said outlet and including vertically adjustable means for varying the size of said passage to control the flow of said fuel; a bowl below said valve for collecting said fuel and delivering it to said outlet; agitators mounted in the housing below said valve extending downwardly into said bowl and operative to disburse the fuel as it falls through the valve into the bowl; and means for generating a current of air past said bowl and into said outlet, said last-mentioned means arranged to direct a current of air past the bowl to create an atomizing effect in said bowl whereby to draw fuel therefrom and carry the same through said outlet.

2,637,600

PNEUMATIC CONVEYER SUCTION HOOD

Morton I. Dorfan, Pittsburgh, Pa.

Application July 12, 1951, Serial No. 236,342
4 Claims. (Cl. 302—58)



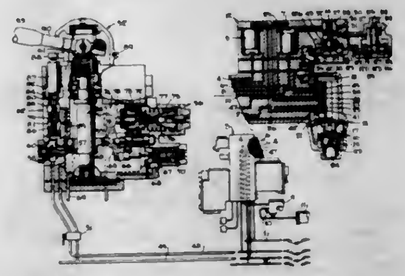
1. A pneumatic conveyor suction hood for picking up loose material from a moving bed, the hood comprising a pair of laterally spaced upright side plates whose lower edges are adapted to extend lengthwise along the bed, a top plate extending across the space between the side plates above their lower edges and forming with the side plates an open bottom passage having an air inlet at one end of the plates and an air outlet at their opposite end, said plate being positioned to give said passage a height that is undiminished from its outlet to its inlet end, and an upwardly curved elbow connected to said outlet and adapted to be connected to the lower end of a pneumatic conveying duct, the inlet of the elbow facing toward the inlet of said passage, whereby air drawn into said passage inlet will pick up material from said bed and carry it in a substantially straight line into said elbow inlet.

2,637,601

FLUID PRESSURE BRAKE APPARATUS

Andrew T. Gorman, Pitcairn, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application August 22, 1950, Serial No. 180,787
14 Claims. (Cl. 303—26)



1. In a fluid pressure brake equipment, in combination, fluid pressure operable brake applying means, means for supplying fluid under pressure to operate said brake applying means, brake release control means controlled by opposing pressures of fluid from said brake applying means and in a chamber and operative upon a preponderance in the former to reduce same to substantially that in said chamber, a self-lapping brake valve device comprising a handle which is manually depressible and which has an application and release zone and which is operative by said handle in said zone to supply fluid at a pressure corresponding to the position of said handle in said zone, and means responsive to depression of said handle to supply fluid at the pressure provided by said brake valve device to said chamber, and operative upon relief of manual pressure on said handle to close the fluid pressure release communication from said brake applying means through said brake release control means.

2,637,602

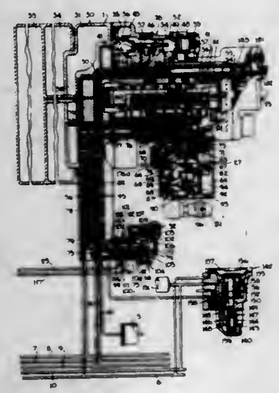
LOCOMOTIVE BRAKE EQUIPMENT

Irwin M. Eisenberg, Stewartsville, Irwin, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application September 7, 1949, Serial No. 114,362
10 Claims. (Cl. 303—40)

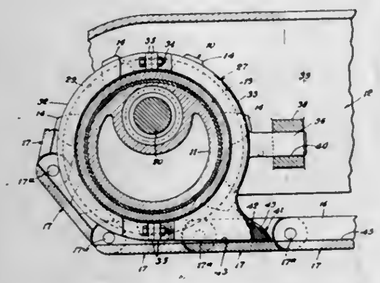
1. In a fluid pressure brake equipment, in combination, a brake pipe, means operative in response to a reduction in pressure of fluid in said brake pipe to supply fluid under pressure to effect an application of brakes, valve means for either restricting said supply or permitting a faster rate of said supply, means operative by pressure of fluid in said brake pipe for con-

ditioning said valve means to provide said faster rate of supply, and means operative upon an



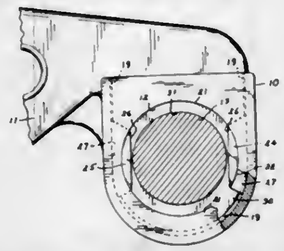
emergency reduction in brake pipe pressure to condition said valve means to restrict said supply.

2,637,603
MUCK STRIPPER FOR ENDLESS TRACK TREADS
Frank Cartlidge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 7, 1951, Serial No. 260,349
5 Claims. (Cl. 305—4)



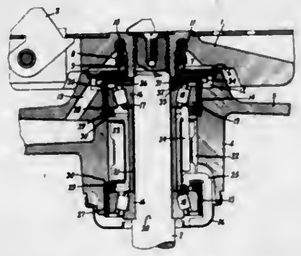
1. In combination with a vehicle frame having an endless tread track, a drive sprocket for said track comprising a generally cylindrical hub with sprocket teeth projecting therefrom, an endless track tread comprising a plurality of pivotally connected tread plates adapted to be trained about said drive sprocket for driving engagement by said sprocket teeth, a stripper ring disposed in bearing engagement about said sprocket hub and radially between the tread plates and said hub as they pass around the latter, means supporting said stripper ring relative to the vehicle frame to restrain rotation of said ring, and a plow-shaped nose carried by said ring normally positioned in proximity to the inner surfaces of the track plates as they approach said sprocket to strip foreign material from said tread plate surfaces.

2,637,604
JOURNAL BOX IMPACT HEAD AND DUST GUARD STRUCTURE
Thomas W. Potter, Mattoon, Ill., assignor to Journal Box Servicing Corporation, Indianapolis, Ind., a corporation of Indiana
Application September 2, 1950, Serial No. 182,914
3 Claims. (Cl. 308—80)



1. The combination with an axle having a journal, a journal box having a journal opening therein, through which said journal and a part of said axle back of the journal extends, a dust guard opening in the box above the journal opening, and spaced ribs extending from the guard opening around said journal opening to define a dust guard retaining groove between the ribs, of a pair of impact heads fixed to the journal box, one head on each side of the axle; each of said heads having a flat face directed toward the axle, a body extending from the face into abutment with said box; and a unitary dust guard having a hole therethrough, a margin of which hole freely fits around a portion of said axle to extend both below and above therefrom; and the outer edge portions of the guard entering said groove, to travel with said axle independently of said heads and float within the groove; said heads being carried by said box to be in the path of said axle part.

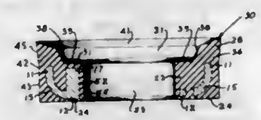
2,637,605
PERMANENT LUBRICATION SYSTEM FOR VERTICALLY MOUNTED BEARINGS
James H. Powers, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application July 26, 1951, Serial No. 238,706
4 Claims. (Cl. 308—187.1)



1. In a lubricant distributing structure for use with a relatively stationary frame having a vertical bore with an open top therein, a bearing having an inner inverted tapered cone, intermediate rolling bearing members, a cage for said rolling bearing members, and an outer tapered cup supporting said cone, cage, and bearing members,

said outer bearing cup being seated in the open top of said bore, an annular resilient bearing support and seal located between said bearing and said bore with a top edge on said seal extending upwardly above said bearing and the open top of said bore, a vertical shaft journaled in said bearing, means supplying liquid lubricant to the bottom of said bearing at said cage, and a rotating liquid shielding annular member fixed to said shaft above said bearing and extending freely radially outwardly beyond said bearing and said resilient bearing support, that improvement comprising a stationary liquid shielding annular member liquid sealed to the top edge of said resilient bearing support, a downwardly turned flange on said stationary member surrounding the top of said resilient support, said stationary annular member having a central opening of given diameter therein freely surrounding said shaft and located above the upper stationary outer cup of said bearing and the inner slower moving cage and rolling bearing members of said bearing, a second rotating liquid shielding annular member fixed to the shaft above the bearing and below said first rotating annular member, said second annular member having a downwardly stepped portion extending from above to underneath said stationary annular member and an outwardly directed flange edge extending radially underneath said stationary annular member and having an outer diameter larger than the diameter of said central opening in said stationary member, and said stationary liquid shield being located close enough to said first rotating liquid shield so that centrifugal pumping action is produced therebetween.

2,637,606
SLUSH PUMP SEAL RING
William E. Pielop, Jr., Houston, Tex.
Application April 21, 1951, Serial No. 222,225
4 Claims. (Cl. 309—23)



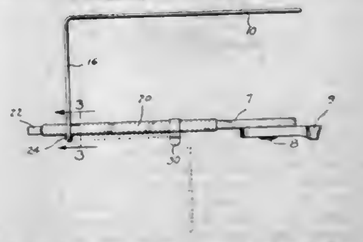
4. A seal ring for slush pump pistons comprising, a cylindrical resilient body, a central opening in said body, said body comprising an annular resilient base having a substantially flat inner end and provided with an annular resilient lip about its outer end, and internal shoulder formed at the junction of said base and said lip to provide a surface for receiving a retainer plate, annular peripheral surfaces on each of said base and said lip which surfaces merge into a unitary peripheral surface, a reinforcing dish embedded entirely within the resilient material composing said ring comprising a rigid body having a generally tubular skirt to face outwardly in said ring and having a flat bottom disposed parallel to said flat inner end of said base, said skirt extending substantially parallel to said annular peripheral surface to rigidify said peripheral surface and extending upwardly from said bottom to an elevation adjacent said junction so that the resiliency of said lip is maintained, a plurality of angularly spaced studs projecting upwardly from said bottom, the cross-sectional area of said studs and said reinforcing dish together froming a U-shaped area.

2,637,607
PISTON RING
Holly M. Olson, Muskegon, Mich., assignor to Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan
Application June 17, 1952, Serial No. 293,895
3 Claims. (Cl. 309—40)



1. A spacer and expander piston ring element comprising, a parted, generally circular corrugated member of flat metal having alternate inner and outer corrugations integrally connected, each of said outer corrugations having an outer side adapted to extend vertically between two spaced rails, and each of said inner corrugations, having an inner side with end portions wider than the distance between the adjacent sides, said two rails, and a tie connection between said end portions resistingly yieldable in the direction of the circumference of said element, said element having abutments at the ends thereof at its parting adapted to bear against each other, whereby said element may be circumferentially compressed to smaller circumferential length.

2,637,608
SURGICAL ARMBOARD ATTACHMENT
Lucille M. McDonald, Tacoma, Wash.
Application May 22, 1950, Serial No. 163,540
4 Claims. (Cl. 311—10)

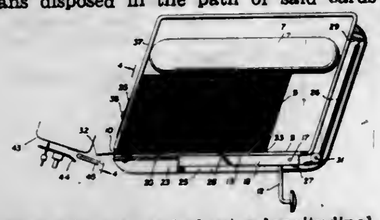


1. A surgical armboard attachment for supporting draping sheets out of contact with a patient's arm placed on the armboard comprising a sheet-supporting bracket extending longitudinally of the armboard and comprising an elongated, horizontal portion extending longitudinally of the armboard and a substantially vertical standard portion for maintaining the longitudinal section a spaced distance above the armboard, a sleeve adapted to slip over the end of the armboard and having the central portion of its upper surface open to permit the patient's arm to rest directly on the armboard, and means for attaching the standard portion of the bracket to the sleeve.

2,637,609
CARD DISPENSING DEVICE
Paul Berg, Fort Wayne, Ind.
Application January 24, 1951, Serial No. 207,540
7 Claims. (Cl. 312—56)

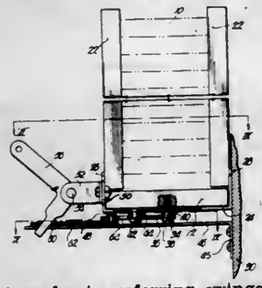
1. A card dispenser comprising a box for supporting a plurality of stacked cards, said box having an opening in one side thereof, means mounted on said box for moving into engagement with a card in said box thereby to move said card together with a frictionally engaged second

card through said opening, and card separating means disposed in the path of said cards for



bending said one card about a longitudinal axis thereof to break the frictional engagement of said cards.

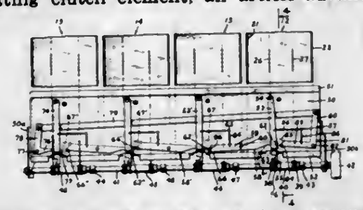
2,637,610
GUM VENDING MACHINE
Eugene R. Sabin, Kansas City, Mo., Boley A. Andrews, Kansas City, Kans., and Loran Allan Shontz, Jr., Kansas City, Mo., assignors to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application August 6, 1951, Serial No. 240,482
7 Claims. (Cl. 312—67)



1. Structure for transferring swingable movement into oscillatory movement including a support; a pivot pin mounted on the support; a member swingable along a path of travel disposed radially relative to said pivot pin; a cam mounted on the pivot pin for oscillatory movement and provided with a substantially semicircular slot between the pivot pin and the member, said slot having a pair of wings terminating at diametrically opposed points on the cam relative to the pivot pin; a shiftable link loosely secured at one end thereof to the member for shifting thereby and for free swinging movement relative to the member on an axis parallel with the axis of said pivot pin; and a roller on the opposite end of the link within the slot for oscillating the cam through engagement therewith as the link swings to move the roller first into one wing and thence into the other wing upon swinging of the member to shift the link.

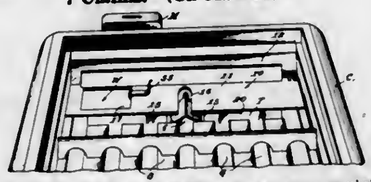
2,637,611
DEVICE FOR DISPENSING SANDWICHES AND THE LIKE
William S. Tandler and David S. Walker, New York, N. Y., assignors to Vendomatic Machine Corporation, New York, N. Y., a corporation of Delaware
Application June 2, 1951, Serial No. 229,608
2 Claims. (Cl. 312—71)

1. A dispensing device comprising a plurality of supports for articles to be dispensed, a power driven shaft, a pulley corresponding to each support rotatably and axially movable relative to and mounted on said shaft, a clutch element on each pulley, a cooperating clutch element corresponding to each pulley fixed to said shaft, a lever pivotally mounted adjacent one end and engaging a pulley at its opposite end to move said pulley axially of said shaft, means biasing said lever in a direction to urge the cooperating clutch elements on said pulley and shaft into engagement, a pivoted latch member adjacent to each lever and having a hook portion engageable with said lever to retain the latter in a position holding the clutch element on its corresponding pulley out of engagement with its cooperating clutch element, an article-advancing



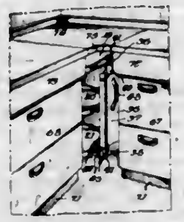
member movably mounted on and corresponding to each support, means connecting each article-advancing member to the pulley corresponding to the support on which the article-advancing member is mounted to advance the latter lengthwise of said support upon rotation of the pulley by said shaft, and a trigger arm connected to the latch corresponding to one of said supports in the path of movement of an article-advancing member on another support and movable thereby as the article advancing member approaches said one end of said another support, to release the latch corresponding to said one of said supports and connect its corresponding pulley to said shaft.

2,637,612
RELEASING MECHANISM FOR USE IN PAPER CARTON VENDING APPARATUS
Ralph Warner and Harold B. Smalley, Bloomington, Ill.
Application June 3, 1949, Serial No. 96,944
7 Claims. (Cl. 312—92)



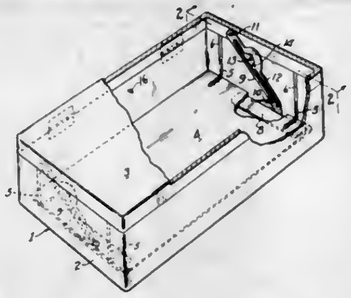
1. A paper carton releasing means comprising an elongated housing including a rear wall, a front wall and a top wall, a well in said housing adjacent one end thereof and including a base wall for receiving a released carton, a carton retrieving opening in said top wall above the well, a track in said housing having one end thereof terminating above said base wall, a carton-receiving opening in said front wall, a carton-transfer member supported on said track for longitudinal sliding movement thereon and having a carton-receiving chamber normally alined with said opening in the front wall, yieldable means retaining said member in normal position, and a handle on said member for manual sliding thereof along said track from its normal carton-receiving position to a point adjacent said end of the track for discharge of the carton into said well.

2,637,613
KITCHEN CABINET FOR CORNER USE
Charles S. Motter, Chicago, Ill., assignor to Morton Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 1, 1949, Serial No. 79,003
7 Claims. (Cl. 312—238)



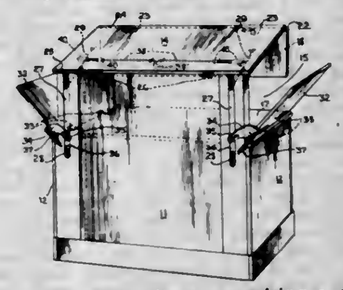
1. A corner kitchen cabinet comprising in combination a cabinet shell consisting of top and bottom portions and a wall portion connecting the said top and bottom portions, a vertical shaft mounted in the top and bottom portions, rotatable spaced shelves on said vertical shaft, a closure member, levers connected to certain of said shelves and to the said closure member whereby the closure member is adapted to be moved toward and away from the said shelves.

2,637,614
ARTICLE DISPLAY CASE
Nickolas A. Simos, Toledo, Ohio
Application April 27, 1951, Serial No. 223,284
3 Claims. (Cl. 312—272.5)



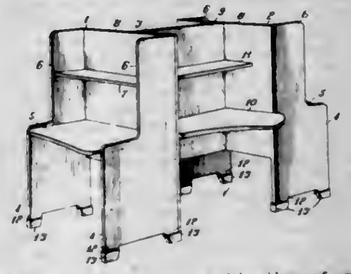
1. In a box-like case having a body, a cover hinged thereto, and a tray guided for raising and lowering movements in the case body, the provision of a tray supporting bracket engaging freely under each tray end for free sliding movements crosswise thereof, a link pivoted to each cover end near its hinge edges and extending downwardly and forwardly therefrom with its lower end pivotally attached to the bracket at the respective end of the tray, each link having a longitudinally extending guide slot with a cam surface extending upward and rearward therefrom, and a pin projecting inward from each case end and engaging in the adjacent link slot to cooperate with its walls to cause raising and lowering movements of the brackets when the cover is raised and lowered, respectively, said pins coacting with said cam surfaces to cause predetermined portions of said bracket movements to be in a direction substantially normal to the plane of the tray.

2,637,615
CABINET
Wilbert E. Theobald, Peru, Ind., assignor to Standard Cabinet Manufacturing Company, Inc., Peru, Ind., a corporation of Indiana
Application February 6, 1952, Serial No. 270,164
6 Claims. (Cl. 312—276)



1. An article of furniture comprising a cabinet, a stationary partition arranged in said cabinet in a substantially horizontal plane and dividing the same into an upper and lower compartment, said cabinet having a front wall divided into sections, a top wall normally disposed in a substantially horizontal plane and movable from said plane to a position extensive with the back wall of the cabinet, means for hinging the top wall at one edge thereof to the back wall for said movement, means for hinging the upper front wall section to an edge of the top wall opposite said one edge, a pair of slide members carried by the back wall for vertical movement relative thereto, link connections between the slide members and said top wall for moving the slide members relative to the back wall when said top wall is moved to said extensive position with said back wall, said cabinet having side walls divided into upper and lower sections, means for hinging the upper of said sections to the side edge portions of said partition, and means providing connection between said upper sections and said slide members, whereby said upper sections will pivot about their hinge connection with said partition by movement of said slide members when the latter are moved relative to said back wall by movement of said top wall.

2,637,616
CARREL UNIT
Angus Snead MacDonald, near Rapidan, Va., assignor to The Globe-Wernicke Co., a corporation of Ohio
Application October 13, 1949, Serial No. 121,133
3 Claims. (Cl. 312—278)



2. In a carrel unit, the combination of spaced apart end study units, each of said units in-

cluding an upright back wall, upright opposite side walls extending outwardly from the back wall, said side walls having upper end portions thereof reduced in width at a point intermediate their respective ends, a desk top extending laterally from the back wall and being substantially embraced and supported by said side walls at a point substantially adjacent to and below the lower ends of said reduced side wall portions, a shelf projecting laterally from said back wall adjacent the upper end thereof and being substantially embraced by said reduced side wall portions intermediate the ends thereof, whereby the ends of said back and side walls form object retaining means for said shelf, an upright wall connected with and extending between said back walls, a desk top projecting laterally from said upright wall, said last-mentioned desk top extending between and being embraced and supported on said back walls, said last-named desk top being in coplanar relation with respect to said first-named desk tops, and a shelf projecting laterally from said upright wall and being embraced and supported between opposite sides of said back walls, said last-named shelf being positioned above said last-named desk top.

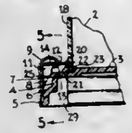
2,637,617

RECEPTACLE FOR BAKERY PRODUCTS

Alfred B. Stotter, Cleveland Heights, Ohio, assignor to Transparent Specialties Corporation, Cleveland, Ohio, a corporation of Ohio

Application January 3, 1950, Serial No. 136,536

5 Claims. (Cl. 312—284)



1. A cake holder comprising in combination a base, said base having an annular shoulder spaced inwardly from the edge thereof, said base outwardly of said annular shoulder having a flat annular surface, a plurality of female locking elements carried by said base adjacent the edge thereof and arranged at substantially equidistant intervals around the said base, said annular shoulder and said locking elements defining limits of a circular pathway on said flat annular surface, each of said locking elements having a slot extending from a side thereof and disposed substantially circumferentially of said base, each of said locking elements having an upper inner wall disposed radially outward of said flat annular surface and disposed in a plane above the plane of said flat annular surface and defining the upper boundary of the slot of the respective locking element, each said locking element being open at the level of said flat annular surface, each of said elements having a radially extending stop portion at the inner end of each said slot to form a positive stop within the respective locking element, a cover supported on said base and adapted to enclose a cake supported on said base, said cover having an annular beaded edge portion adapted to engage and rest upon the said flat annular surface of said base and to be revolved in said circular pathway, the maximum diameter of said beaded edge portion substantially coinciding with the maximum diameter of said flat annular surface of the base, and a plurality of lug elements carried by said cover and extending radially outward from said beaded edge portion, said lug elements being arranged at substantially equidistant intervals around the said cover, said lug elements corresponding in number and arrangement with the female locking elements carried by said base, each said lug element having a radially extending abutting surface adapted to abut a stop portion of said respective locking element, each said lug element extending radially outward beyond said flat annular surface of said base supporting said cover and in circumferential alignment with the slot of a respective locking element, each said lug element being positionable in the said slot of a respective locking element under said upper wall and substantially clear of contact at the level of said annular surface under said upper wall, the arrangement of said base, locking elements, cover and lug elements being such that the cover and base may be interlocked by revolving said beaded edge portion of the cover on said flat annular surface guided in said circular pathway in a direction to move said lug elements into the slots of the respective locking elements to abut the abutting surfaces of the lug elements against the stop portions of the respective locking elements and to position the lug elements under said upper walls for interlocking the cover and base against axial disengagement without substantially subjecting said lug elements to opposed pressures in an axial direction.

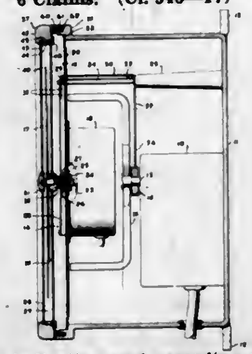
2,637,618

COMBINATION RECORDING AND MAGNETICALLY OPERATED INDICATING INSTRUMENT

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California

Application July 22, 1949, Serial No. 106,226

6 Claims. (Cl. 346—17)



1. In an indicating and recording mechanism adapted to cooperate with a condition responsive mechanism: a recording mechanism including means for moving a chart support, and recording means cooperating with said support and movable by said condition responsive mechanism; a first permanent magnet positioned by said condition responsive mechanism; an indicator; a second permanent magnet secured to said indicator movable by magnetic cooperation with said first permanent magnet; a housing for said indicator and said second magnet, including a pair of transparent members between which said indicator is supported, said housing being movably mounted with respect to said recording mechanism; a pair of telescoping members adapted to support said indicator within said housing, there being a pair of pivot points carried by each of said telescoping members; bearing structures mounted centrally respectively of said transparent members and adapted to cooperate with said pivot points permitting free rotation of said indicator; and spring means interposed between said telescoping members urging said pivot points to contact said bearing structures.

2,637,619

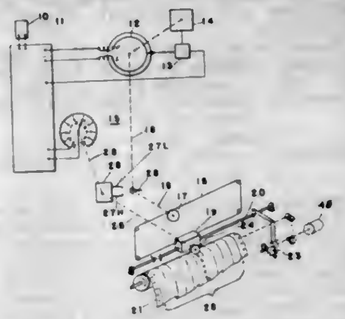
MULTIRANGE RECORDER INDICATOR

Irving M. Stein, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 23, 1949, Serial No. 77,742

16 Claims. (Cl. 346—32)

2. A system for precisely recording varying magnitudes of a condition on a movable record chart comprising a balanceable network, a range-impedance included in said network and adjustable step-by-step to provide contiguous measuring ranges, a second adjustable impedance included in said network and smoothly adjustable to effect balance of said network for magnitudes of said condition within each of said contiguous ranges, a rotatable printing member having angular spaced range symbols, coupling means for effecting angular adjustments of said printing member in correspondence with steps of adjustment of said range impedance, coupling means for moving said printing member with respect to said chart to positions corresponding with the adjustments of said second impedance, and means intermittently operated to effect engagement between said chart and said printing member to



produce a succession of printed symbols, the varying position of successive symbols on the chart indicating the variation of said condition within the contiguous ranges identified by the symbols.

CHEMICAL

2,637,620

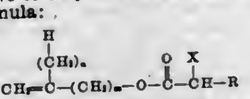
METHOD OF DYEING AN ACRYLONITRILE COPOLYMER WITH ACID DYES AND THIOUREA

George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application February 27, 1950, Serial No. 146,633

8 Claims. (Cl. 8—55)

1. A method of dyeing a fiber of a copolymer of 75 to 98 percent by weight of acrylonitrile and from two to 25 percent of a compound having the formula:



wherein X is an atom of the group consisting of chlorine and bromine, R is a radical of the group consisting of hydrogen and alkyl radicals having up to four carbon atoms, m and n are small whole numbers from zero to one, inclusive, and n is not greater than m, which comprises treating the fiber with an aqueous bath of an acid dye containing thiourea.

2,637,621

TEXTILE DECORATING PIGMENT COLOR COMPOSITION CONTAINING A PHENOL-EPIHALOHYDRIN CONDENSATION PRODUCT

Laszlo Auer, South Orange, N. J.

No Drawing. Application May 2, 1949, Serial No. 91,009

19 Claims. (Cl. 8—69)

1. A textile decorating pigment color concentrate comprising a pigment, a water emulsion of a resinous ester of a polyunsaturated fatty oil acid and an alcoholic condensation product of an epihalohydrin with a polynuclear polyhydric phenol and of a volatile organic solvent, said resinous ester being characterized by its ability to reach the "thermoset" stage at temperatures not exceeding 220° F., said color concentrate containing 15% to 40% non-volatile content and 3% to 15% pigment, said pigment being less than 50% of the non-volatile content and having high tinting power, said color concentrate being of pasty consistency and suitable for dilution, and yielding textile decorations with improved crock resistance and laundering resistance.

2,637,622

FORMALDEHYDE-DICYANDIAMIDE RESINS AND THE TREATMENT OF LEATHER THEREWITH

William O. Dawson, East Paterson, and Lucien Sellet, Saddle River, N. J., assignors to Jacques Wolf & Co., a corporation of New Jersey

No Drawing. Application March 24, 1950, Serial No. 151,818

3 Claims. (Cl. 8—94.21)

1. The water insoluble reaction product of a water soluble resinous condensation product of formaldehyde and dicyandiamide with an anionic water soluble compound selected from the group consisting of organic sulfonic acids and their salts and esters, the said resinous condensation product being the product of forming a mixture of dicyandiamide and an aqueous solution of formaldehyde in the proportion of 3.6 to 5 mols of formaldehyde to 1 mol of the dicyandiamide, heating the mixture at a pH above 7, maintaining the total free and reacted formaldehyde during the heating step in the proportion of 3.6 to 5 mols, continuing the heating until the condensation product formed becomes insoluble in water on extreme dilution and then later be-

comes soluble on such dilution, and then discontinuing the heating when the water soluble stage is reached.

2,637,623

TEXTILE TREATING COMPOUNDS AND METHOD OF APPLYING THEM TO TEXTILES

John Robert Janes, Garden City, N. Y., assignor to Deering Milliken Research Trust, Greenwich, Conn., a nonprofit trust of Maine

No Drawing. Application September 2, 1948, Serial No. 47,549
7 Claims. (Cl. 8—115.5)

1. Compounds having the general formula:

$$R_n-Si[-O-Y-N(tert)X]_{4-n}$$

where n is an integer from 1 to 3; R is selected from the group consisting of saturated alkyl hydrocarbon radicals, alicyclic hydrocarbon radicals and aryl hydrocarbon radicals having from 1 to about 20 carbon atoms; Y is a bivalent bridging radical selected from the group consisting of alkylene arylene and cycloalkylene hydrocarbon radicals having from 1 to about 30 carbon atoms; N(tert) is a tertiary amine selected from the group consisting of tertiary aliphatic amines and tertiary heterocyclic amines; and X is a chlorine atom.

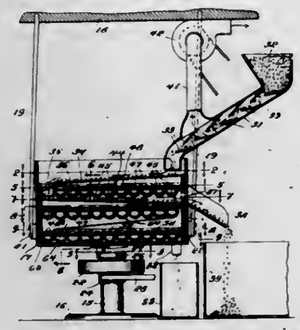
5. A process of treating organic textile material to modify the physical characteristics thereof which comprises impregnating said material with from about 0.1 per cent to 20 per cent by weight of said material of a compound of claim 1 in aqueous solution, drying said material at a temperature of less than about 100° C., heating said material to a temperature of from 80° to 260° C. to decompose the quaternary ammonium compound, then hydrolyzing the silicon-oxygen linkage of said compound, warming said material at a temperature of from about 40° to 150° C. and, finally, heating said material to a temperature of from 80° to 250° C. to bond the reaction products to said material.

2,637,624

GRAIN STERILIZING DEVICE

Herbert R. Klink, Roanoke, Va.

Application January 16, 1948, Serial No. 2,760
6 Claims. (Cl. 21—91)



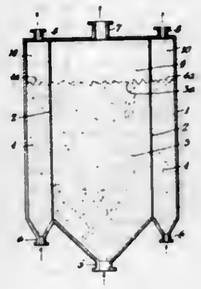
1. A device for separating insects from grain comprising a container, a crank means for causing the container to be gyrated, a screen disposed at the top of the container for receiving the grain with the insects therein, said screen being adapted to pass the insects, an insect-destroying means lying beneath the screen to receive the insects, said insect-destroying means including imperforate channel slots, and ball weights traversing said slots to crush the insects therein, said balls being rolled through the channel slots as a result of the motion of the container, said channel slots being shaped for conforming engagement by said rolling balls.

2,637,625

GASEOUS DIFFUSION PROCESS

Paul W. Garbo, Long Beach, N. Y.

Application May 21, 1946, Serial No. 671,171
15 Claims. (Cl. 23—2)



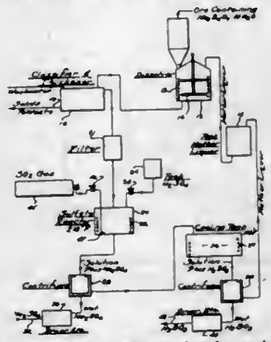
1. The improved gaseous diffusion process for the separation of mixed gases, which comprises passing a gaseous mixture along one surface of a diffusion barrier adapted to permit the preferential diffusion therethrough of one component of said gaseous mixture, while maintaining moving solid particles in contact with said surface of said barrier, and recovering the gaseous diffusate.

2,637,626

PRODUCTION AND SEPARATION OF ANHYDROUS ALKALI METAL SULFATE AND BORIC ACID

Donald S. Taylor, Monrovia, Calif., assignor, by mesne assignments, to Borax Consolidated, Limited, London, England, a corporation of Great Britain and Northern Ireland

Application July 31, 1947, Serial No. 765,095
10 Claims. (Cl. 23—121)



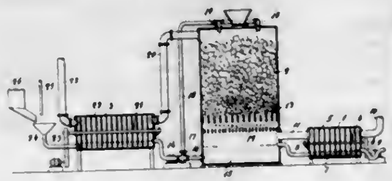
1. In a process in which boric acid and an anhydrous sulfate of an element selected from the class consisting of sodium and potassium are selectively precipitated from an aqueous and ordinarily acid solution containing boric acid and the sulfate as principal solutes, the solution also containing dissolved iron in sufficient concentration to stabilize supersaturation with respect to the anhydrous sulfate, the improvement which comprises treating the solution with a chemical agent selected from the class consisting of basic compounds that will react with the iron to produce ferric hydroxide therefrom, and reducing agents that will react to reduce ferric ions to the ferrous state, so as to substantially so react all of the dissolved iron to prevent, by transformation of the iron to such reacted state, inhibition of precipitation of anhydrous sulfate from the solution, and precipitating the anhydrous sulfate from the solution in the presence of the iron in said reacted state, said precipitation being carried out at a temperature at which the sulfate is precipitated only in anhydrous form.

2,637,627

PROCESS FOR PREPARING RAW SULFITE ACID

Gustaf Haglund, Storangen, near Stockholm, Sweden

Application August 5, 1947, Serial No. 766,244
In Sweden May 31, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 31, 1966
4 Claims. (Cl. 23—130)



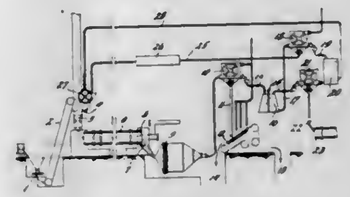
1. A continuous process for preparing raw sulphite acid which comprises, in an absorption zone, passing a gas containing SO_2, and obtained substantially from a furnace producing SO_2, over acid already having the desired content of bisulphite, moving a solid body alternatingly through said acid and gas in said zone for intimately mixing said acid and gas to increase the free SO_2 content of said acid, the supply of SO_2 to said absorption zone and the movement of said solid body being adjusted in such a way that at most 25% of the total SO_2 content of the gas is absorbed, conducting the remaining SO_2 containing gases from said absorption zone to a bisulphite producing zone containing a basic material of at least one metal of the group consisting of calcium, and sodium, continually supplying water to said bisulphite producing zone in a quantity corresponding to the quantity of raw acid to be produced, contacting the said SO_2 containing gases in said bisulphite producing zone with said water and said basic material to produce an acid having the desired content of bisulphite, the conditions of absorption in said bisulphite producing zone being adjusted in such a way that the SO_2 content of the gas is practically completely absorbed, and passing the acid with the desired content of bisulphite thus produced to said absorption zone.

2,637,628

PROCESS FOR THE TREATMENT OF BAUXITES

Ineo De Vecchis, Paris, France, and Oscar E. Ramus, Lausanne, Switzerland, assignors of one-fourth to Guy H. Montmartin, New York, N. Y.

Application February 27, 1948, Serial No. 11,626
In France March 2, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 2, 1965
13 Claims. (Cl. 23—141)



1. The process of beneficiating insoluble refractory materials available as a source of alumina and containing siliceous and ferruginous material among its insoluble impurities which comprises calcining said refractory materials in the presence of a basic alkaline earth compound adapted to form a water soluble aluminate, the proportion of said alkaline earth compound and the alumina being approximately equimolar, and the amount of said alkaline earth compound corresponding with that sufficient for producing the said water soluble aluminate without reacting with the impurities of the mineral, the calcination temperature being approximately 1000° C. and adapted to react said alkaline earth compound and alumina to form said soluble aluminate substantially without any collateral reaction between the said alkaline earth reagent and the insoluble impurities, quenching the hot calcined mass in a relatively cold aqueous solution and completing the dissolution of the aluminate from the residual magnetic iron oxide containing material, and then separating the aluminate solution from the residual insoluble material.

2,637,629

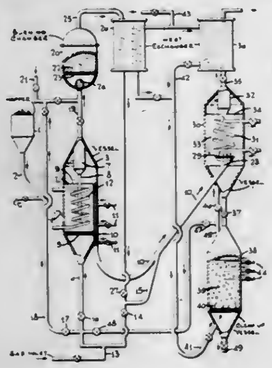
ROASTING SULFIDE ORES

Warren K. Lewis, Newton, Mass., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 2, 1947, Serial No. 751,780
8 Claims. (Cl. 23—177)

1. A process for roasting a metal sulfide which liberates sulfur on heating which comprises suspending the sulfide in finely divided form in a zone in an upflowing stream of oxidizing gas having a velocity such as to maintain the sulfide in a dense fluidized suspension, regulating the temperature and the oxidizing character of the upflowing gas in said zone so as to insure the formation of a minor amount of metal oxide in said zone whereby sulfur is liberated from said sulfide, removing said liberated sulfur from said distillation zone in said stream of gas, separately removing finely divided solid from said zone, burning said removed sulfur under controlled conditions to produce a minimum of SO_3, combining the combustion gas so produced with the

finely divided solid removed from said zone, feeding the mixture to a roasting zone, maintaining the finely divided solid in said roasting zone in the form of a dense, fluidized mixture in an upflowing stream of oxidizing gas, adjusting the temperature, the oxidizing character of the gas and the solid content in said roasting zone



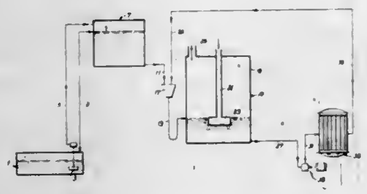
so as to convert substantially all of the metal sulfide to metal oxide while preserving a minor amount of metal sulfide in said solid suspension and withdrawing from said roasting zone a gas, the sulfur content of which is in the form of SO_2, and finely divided solid predominantly composed of metal oxide and containing a minor amount of metal sulfide.

2,637,630

METHOD OF BURNING SULFUR

Gaines N. Houston, Houston, Tex., assignor, by mesne assignments, to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

Application July 6, 1948, Serial No. 37,240
3 Claims. (Cl. 23—179)



1. The method of vaporizing and burning sulfur comprising continuously intermixing air with a mass of molten sulfur in a volatilization zone, continuously removing gaseous effluent therefrom, continuously removing a minor portion of said molten sulfur from the lower part of said molten sulfur mass, continuously purifying said minor portion in a zone separated from and out of gaseous communication with said volatilization zone and returning said purified portion to said molten sulfur mass.

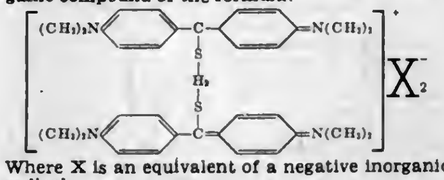
2,637,631

ANALYTICAL REAGENT AND METHOD

Bernard Gehauf and Jerome Goldenson, Baltimore, Md.

Application March 9, 1949, Serial No. 80,553
6 Claims. (Cl. 23—230)
(Granted under Title 35, U. S. Code (1952), sec. 266)

3. A composition of matter consisting of an organic compound of the formula:



Where X is an equivalent of a negative inorganic radical.

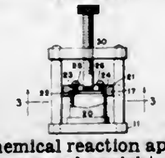
5. In the method of qualitatively determining the presence of chemical elements in a medium by producing a color change in said medium, the step which comprises adding p,p'-bis-(dimethylamino) thiobenzophenone to a solution containing a single ionic member of the group consisting of mercury, cuprous copper, silver, gold, platinum and palladium in a sufficient quantity to affirm the presence of one of said members and identifying the metal by the resultant color of the solution.

2,637,632

APPARATUS FOR CONDUCTING HISTOCHEMICAL REACTIONS

Michael J. Wolf and Alfred F. Fitton, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

Application May 25, 1951, Serial No. 228,346
3 Claims. (Cl. 23—253)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A histochemical reaction apparatus comprising a platform, spaced upright posts attached to the platform, a cross member supported by said posts above the platform, a vertically movable plate situated between the platform and cross member, the posts being slidably received in grooves in the plate to prevent its rotation, a recess in the under side of the plate for receiving the lip of a histochemical reaction vessel placed on the platform, the plate being movable downwardly onto the vessel to cover it with the lip received in the recess, at least one aperture extending through the plate for admission of reagents to the vessel when mounted in place, and screw-threaded means connecting said cross member to said plate operation of which causes the vertical movement of the plate.

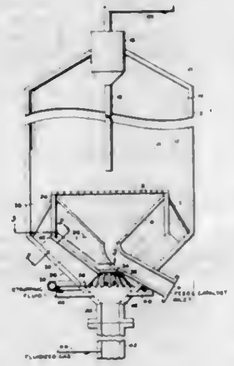
2,637,633

APPARATUS FOR STRIPPING FLUID TYPE CATALYSTS

Edward Strunk, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 18, 1948, Serial No. 55,127
5 Claims. (Cl. 23—288)

1. A reaction vessel for effecting contact between fluidized solid contact particles and a reactant gas and then stripping said particles of said gas by contact with a stripping gas, which comprises in combination an enclosed upright cylindrical vessel having a gas outlet in the upper end thereof and a conical bottom extending downwardly therefrom at an angle in the range of 15 to 75° to a solids outlet at its apex; a series of radially disposed upright inverted L-shaped members fixed on and extending along an intermediate section of the inside surface of said conical bottom so as to form a series of radial stripping channels higher and narrower at their lower than at their upper ends thereby providing more uniform cross sectional area than would be provided with ends of similar cross-section, the upper sections of said L-shaped members adjoining the



next member on either side so as to form a generally conical continuous roof over said channels; an annular member extending upwardly from the outer periphery of said conical roof so as to form an annular space between said annular member and the inner wall of said vessel, said space communicating with said channels and with the interior of said vessel; a perforate plate covering said annular member; a funnel-shaped member within said annular member contiguous to the latter at the lip of the funnel and having an inlet conduit at its small end extending through the outer wall of said vessel for distributing a fluidized mixture of feed gas and solid contact particles to said vessel; and conduit means communicating with the space at the lower ends of said channels for introducing stripping gas thereto.

2,637,634

ALUMINUM ETCH

Roscoe D. Howard and Robert E. Samuelson, Wichita, Kans., assignors to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware

No Drawing. Application February 12, 1952, Serial No. 271,292
1 Claim. (Cl. 41—42)

Aluminum etch comprising the following in approximately the proportions:

Nitric acid, 42° Bé	3 gallons
Hydrofluoric acid (48–52% HF)	20 gallons
Boric acid	9.3 pounds
Water to make 100 gallons total.	

2,637,635

SUPPLEMENTARY FUEL

Edward J. McLaughlin, El Cerrito, George H. Denison, Jr., San Rafael, and Maurice R. Barusch, Richmond, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 9, 1949, Serial No. 98,166
14 Claims. (Cl. 44—53)

1. A supplementary spark-ignition engine fuel comprising a major proportion of a water-alcohol mixture and at least about three per cent by volume to an amount limited by the solubility in said alcohol-water mixture of phenylene diamines having no nitrogen-bonded substituents other than methyl groups and not more than two of said methyl groups and having no carbon-bonded substituents other than hydrocarbon groups containing fewer than five carbon atoms and wherein the water and alcohol are present in the water-alcohol mixture in the proportion of from about 5 to about 90 per cent by volume of water and from about 10 to about 95 per cent by volume of alcohol.

2,637,636

COLOR STABILIZERS

Ernest L. Walters, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Original application April 10, 1944, Serial No. 530,408. Divided and this application May 14, 1951, Serial No. 226,730
20 Claims. (Cl. 44—63)

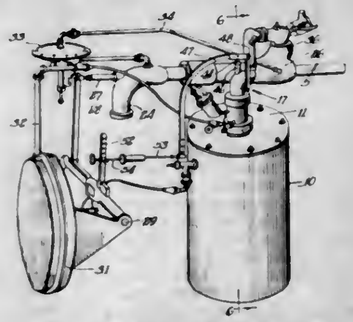
13. An aviation gasoline composition substantially free from unsaturated gum-forming hydrocarbons and containing an aromatic amine and tetra ethyl lead, stabilized against gum formation and tetra ethyl lead decomposition by the incorporation therein of a minor proportion of 8-hydroxyquinoline.

2,637,637

APPARATUS FOR VAPORIZING LIQUID HYDROCARBONS

Charles A. French, Cuernavaca, Mexico, assignor to Lenore C. Bates, Winnetka, Ill.

Application March 24, 1950, Serial No. 151,695
1 Claim. (Cl. 48—107)



In that type of vaporizing apparatus for liquid hydrocarbon fuel which includes a vaporization chamber adapted to contain an excess of liquid fuel, a mixing chamber for combining air and vapors from said vaporization chamber to form a combustible mixture, a manifold receiving combustible mixture from the mixing chamber for

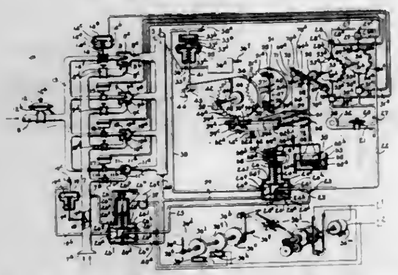
delivery to a main burner wherein the manifold pressure varies in accordance with the demands of the main burner, an air supply valve for regulating the air supply to the mixing chamber, control means including a movable member and responsive to manifold pressure, a connection between the movable member of the control means and the air supply valve for regulating the air supply to the mixing chamber in accordance with main burner demands, an enclosed pilot burner discharging its combustion products into contact with the excess of liquid fuel in the vaporization chamber to vaporize the same, a connection between the manifold and pilot burner for delivering combustible mixture to the pilot burner and a pilot burner valve in the connection for controlling the amount of combustible mixture delivered to the pilot burner, the improvement which comprises, in combination, a connection between the movable member of the control means and the pilot burner valve for regulating the supply of combustible mixture to the pilot burner and hence the vapor delivered to the mixing chamber in accordance with the demands of the main burner to maintain the richness of the combustible mixture substantially constant over wide demands of the main burner, said connection between the movable member of the control means and the pilot burner valve including adjusting means for varying the position of the pilot burner valve with respect to the air supply valve for predetermining the richness of the combustible mixture.

2,637,638

METHOD OF AND APPARATUS FOR MIXING COMBUSTIBLE GASES

Edwin X. Schmidt, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application June 16, 1947, Serial No. 755,030
12 Claims. (Cl. 48—180)



3. In a multiple-rate gas mixing plant, in combination, a multiplicity of gas mixing units of different sizes respectively, the sizes of said units being related to each other in the manner of a geometric progression with a ratio of two, whereby the same may be operated either individually or jointly to provide a multiplicity of equal increments or decrements in the rate of gas mixing throughout the total range or capacity of the plant, a distribution manifold into which each of said units when active is adapted to discharge, a source of supply of combustible gas to be supplied to each unit when active at a pressure a predetermined degree above atmospheric pressure, an atmospheric air manifold common to all of said units when active, each unit having a check valve interposed between the same and said air manifold, a source of supply of compressed air, a pair of pilot regulators, one of said pilot regulators being subject to control in accordance with variations in the pressure of the combustible gaseous mixture in said distribution manifold, the other pilot regulator being subject to control in accordance with the differential value of the pressure conditions within said distribution manifold and said air manifold respectively, a diaphragm motor subject to control by the rate of supply of compressed air from said pilot regulator first mentioned, diaphragm motors individual to each gas mixing unit for controlling initiation and discontinuance of operation of each of the latter, means operated by said first mentioned diaphragm motor for effecting control of the supply of compressed air to said diaphragm motors second mentioned to effect initiation or discontinuance of operation of the respective units in a predetermined sequence in response to variations of pressure in the distribution manifold as an incident to variation in the rate of demand for the combustible gaseous mixture, a valve in said air manifold, and a diaphragm motor subject to control by said second pilot regulator to effect operation of said valve to normally maintain substantially constant the differential value of said pressure conditions within said air manifold and said distribution manifold.

2,637,639

2-METHYLCHLOROPHENOXYACETATE HERBICIDES

Frank Talbot and Reginald Thomas Foster, Widnes, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application March 13, 1950, Serial No. 149,456. In Great Britain March 28, 1949
9 Claims. (Cl. 71—2.4)

8. A composition of matter containing a 2-methylchlorophenoxyacetate which is capable of giving a physically stable concentrated solution upon being dissolved in water, said composition comprising at least 65% by weight of a water-soluble salt of 2-methyl-4-chlorophenoxyacetic acid together with free alkali in amount equal to from 1.8% to 6% of the weight of the said salt.

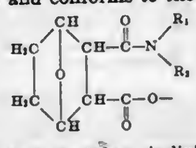
2,637,640

PLANT GROWTH REGULATION

Nathaniel Tischler, Palmyra, N. J., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application October 31, 1951, Serial No. 254,190
16 Claims. (Cl. 71—2.4)

1. A plant response composition comprising a salt of a strong mineral acid with at least one of the group consisting of ammonia, alkyl amines, alkanol amines, and mixed alkylalkanol amines, and at least one water-soluble compound the anion portion of which is of exo-cis configuration and conforms to the structure



in which R_1 and R_2 taken individually represent one of the group consisting of the hydrogen atom and alkyl, alkanol, and cycloalkyl radicals, and taken collectively represent one of the group consisting of polymethylene and oxapolymethylene radicals.

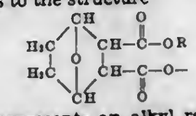
2,637,641

PLANT GROWTH REGULATION

Nathaniel Tischler, Palmyra, N. J., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application November 15, 1951, Serial No. 256,599
13 Claims. (Cl. 71—2.4)

1. A plant response composition comprising a salt of a strong mineral acid with at least one of the group consisting of ammonia, alkyl amines, alkanol amines, and mixed alkyl-alkanol amines, and at least one water-soluble compound the anion portion of which is of exo-cis configuration and conforms to the structure



in which R represents an alkyl radical selected from the group consisting of primary and secondary alkyl radicals having from 1 to 8 carbon atoms.

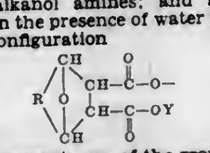
2,637,642

PLANT RESPONSE AGENTS

Nathaniel Tischler, Palmyra, N. J., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application June 13, 1951, Serial No. 231,441
17 Claims. (Cl. 71—2.5)

1. A composition prepared for use as a plant response agent which comprises a compound selected from the group consisting of saturated, open-chain, carbon-to-carbon linked, mono- and dihydroxy, mono-, di- and tricarboxylic acids having from 2 to 6 carbon atoms, and the salts of said acids with at least one of the group consisting of ammonia, alkyl amines, alkanol amines and mixed alkylalkanol amines; and a compound which when in the presence of water yields anions having the configuration



in which Y represents one of the group consisting of an unsatisfied valence and a cation, and in which R represents one of the group consisting of the vinylene radical and the ethylene radical.

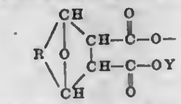
2,637,643

PLANT RESPONSE AGENTS

Nathaniel Tischler, Palmyra, N. J., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application June 13, 1951, Serial No. 231,442
17 Claims. (Cl. 71—2.5)

1. A composition prepared for use as a plant response agent which comprises a compound selected from the group consisting of diglycollic acid and the salts of said acid with at least one of the group consisting of ammonia, alkyl amines, alkanol amines and mixed alkylalkanol amines; and a compound which when in the presence of water yields anions having the configuration



in which Y represents one of the group consisting of an unsatisfied valence and a cation, and in which R represents one of the group consisting of the vinylene radical and the ethylene radical.

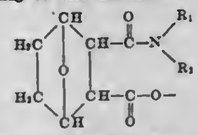
2,637,644

PLANT GROWTH REGULATION

Nathaniel Tischler, Palmyra, N. J., and Ernest P. Bell, Detroit, Mich., assignors to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application October 31, 1951, Serial No. 254,189
13 Claims. (Cl. 71—2.5)

8. A composition prepared for use as a plant response agent which comprises a carrier, and at least one compound which when in the presence of water yield anions of exo-cis configuration and conforming to the structure



in which R_1 and R_2 taken individually represent one of the group consisting of hydrogen and alkyl, alkanol, and cycloalkyl radicals, and taken collectively represent one of the group consisting of polymethylene and oxapolymethylene radicals.

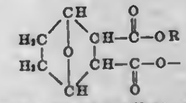
2,637,645

PLANT GROWTH REGULATION

Nathaniel Tischler, Palmyra, N. J., and Ernest P. Bell, Detroit, Mich., assignors to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application November 15, 1951, Serial No. 256,598
16 Claims. (Cl. 71—2.5)

1. A method for inducing response in a living plant having a vascular system, comprising bringing into association with said vascular system of said plant an effective amount of anions of exo-cis configuration and conforming to the structure



in which R represents an alkyl radical selected from the group consisting of primary and secondary alkyl radicals having from 1 to 8 carbon atoms.

2,637,646

DEFOLIANT COMPOSITION

Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 24, 1952, Serial No. 268,139
3 Claims. (Cl. 71—2.5)

1. A plant defoliant comprising an oil-in-water emulsion of 2-allylmercaptobenzothiazole as the active ingredient.

2,637,647

HERBICIDAL COMPOSITIONS

Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 24, 1952, Serial No. 268,140
7 Claims. (Cl. 71—2.5)

1. A herbicidal composition comprising an oil-

in-water emulsion of 2-vinylmercaptobenzothiazole, said thiazole being present in said emulsion in a quantity which is toxic to plant life.

2,637,648
PRODUCTION OF FERROSILICON
Marvin J. Udy, Niagara Falls, N. Y.
No Drawing. Application August 11, 1948, Serial No. 437,775
10 Claims. (Cl. 75—10)

1. The method of utilizing a silicate of a base metal of the group consisting of magnesium, aluminum, potassium, sodium and lithium which comprises smelting a charge comprising such a silicate, iron-bearing material of the group consisting of metallic iron and iron oxide and solid carbonaceous reducing material in an electric furnace to reduce to the elemental state and vaporize the base metal of the silicate, to reduce to the elemental state silicon of the silicate and to form molten metallic iron for collecting elemental silicon produced with the production of molten ferrosilicon containing not more than about fifteen percent by weight of silicon, collecting the vaporized base metal, and withdrawing the molten ferrosilicon from the furnace.

2,637,649
CONDENSING ZINC VAPOR
Erwin C. Handwerk, Lehighton, George T. Mahler and Llewellyn J. Held, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 2, 1949, Serial No. 113,902
4 Claims. (Cl. 75—88)

1. In the production of metallic zinc vapor wherein a hot gaseous product is produced containing the zinc vapor in admixture with a diluent gas including an oxidizing constituent at a temperature within the range of about 800° to 1300° C., the improvement which comprises preventing oxidation of the zinc vapor by said oxidizing constituent within said temperature range by introducing into the hot gaseous product an amount of a crackable hydrocarbon sufficient to produce by its cracking in situ therein a floating cloud of incandescent nascent carbon particles but insufficient to lower the temperature of said hot gaseous product below 800° C., and condensing the resulting zinc vapor to molten massive zinc metal.

2,637,650
FIBERBOARD CONTAINING BITUMEN MODIFIED FATTY ACID PITCH
Leonard Charles Bradshaw, Slough, England, assignor to International Bitumen Emulsions Limited, Slough, England, a company of Great Britain and Northern Ireland
No Drawing. Original application September 17, 1946, Serial No. 697,597, now Patent No. 2,602,029, dated July 1, 1952. Divided and this application May 6, 1952, Serial No. 286,421. In Great Britain July 31, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 31, 1965
3 Claims. (Cl. 92—3)

1. A rigid, non-flexible, bituminized, fiber board consisting essentially of approximately equal amounts of fibrous material and a polymerized and vulcanized binder of fatty acid pitch modified with a hard bitumen, the ratio of fatty acid pitch to bitumen in the binder being between 1 to 2.4 and 3.5 to 1.

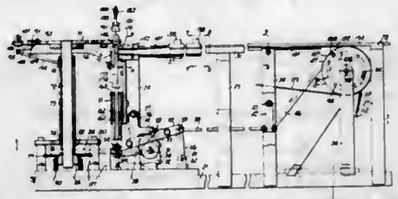
2,637,651
METHOD OF PRODUCING IMAGES ON RIGID SURFACES
Harold E. Copley, Columbus, Ohio, assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware
No Drawing. Application October 2, 1948, Serial No. 52,591
6 Claims. (Cl. 95—1.9)

1. The method which comprises transferring a powder image from an electrophotographic plate to a flexible transfer sheet by means of an electric charge applied by corona discharge to the transfer sheet while the latter is in contact with the plate, then transferring the powder image from said flexible transfer sheet to the rigid surface of a printing element by means of an electric charge applied by corona discharge to the transfer sheet while the latter is in contact with the printing element, and fixing the powder image on said printing element.

2,637,652
ALCOHOLIC BEVERAGES AND METHOD
Edmund J. Ryan, Miami, Fla.
No Drawing. Application February 10, 1950, Serial No. 143,595
10 Claims. (Cl. 99—48)

1. The method of treating an alcoholic beverage comprising aerating the same with a halogen activated polymeric oxygen gas, formed by first subjecting oxygen gas to ultra-violet light in the wave length of 2,000 to 4,800 A. U. units, then subjecting the gas to a high voltage discharge in the range of 11,000 to 18,000 volts under pressures exceeding 10 pounds gauge and temperatures in the range of 100 to 600° F. to form an oxygen gas of which a substantial portion is in a polymeric form, and then passing this gas through a concentrated aqueous solution of a halogen substance selected from the group consisting of elementary halogen and water soluble salts thereof.

2,637,653
METHOD FOR STUFFING OLIVES
George W. Ashlock, Jr., Oakland, Calif.
Original application May 31, 1949, Serial No. 96,324. Divided and this application April 6, 1950, Serial No. 154,339
1 Claim. (Cl. 99—100)



A method of stuffing pitted olives with a plug comprising supporting a series of sheets of pimento in and end-to-end coplanar relation to provide a continuous length of pimento having a width not greater than twice the longest dimension of the plug to be formed, each sheet having a smooth flat face and a rough irregular face, the series of sheets being positioned with their respective rough faces uppermost, advancing the length of pimento toward a stuffing station, folding the length of pimento gradually upon itself as it advances toward the stuffing station to provide a flat U-strip wherein the previously spaced terminal edges are adjacent one another and the smooth flat face is outermost and the rough face portions of the length of pimento are in abutment and extend from a common straight terminal fold line, compressing that end portion of the advancing U-shaped strip which is at the stuffing station to form a plug thereof at the stuffing station having opposite side portions extending normal to said terminal fold line, cutting the so-formed plug from the U-shaped strip transversely to the major axis and at right angles to said terminal fold line, and stuffing the severed plug into a pitted olive cavity at the stuffing station with the terminal fold line and exposed at the otherwise open end of the fruit cavity.

2,637,654
EGG WHITE COMPOSITION
Herbert J. Kothe, Bronx, N. Y., assignor to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application February 8, 1950, Serial No. 143,143
8 Claims. (Cl. 99—113)

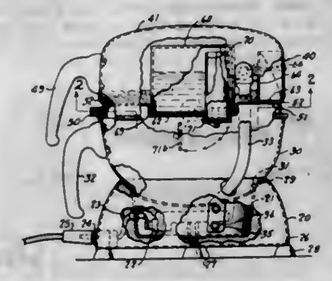
1. An egg white composition having improved whipping properties containing an edible unsulfonated appreciably water-soluble ester of an aliphatic alcohol having less than three carbon atoms and an aliphatic polybasic acid of the group consisting of tartaric, malic, malonic, citric and succinic acids.

2,637,655
ISOLATING CARAMEL COLORING COMPOUNDS
James Edwin Cleland and Joseph B. Longenecker, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana
No Drawing. Application July 19, 1950, Serial No. 174,786
8 Claims. (Cl. 99—148)

1. The process of isolating the essential coloring compounds from caramelized syrups having a tinctorial power of 18–40 comprising mixing the syrup with an alcohol mixture comprising 3–5 parts of an alcohol which is miscible with water and contains 1 to 2 carbon atoms to 1 part of a higher monohydric alcohol of 2–6 carbon atoms which is miscible with water, said alcohol mixture containing 5–32% by volume of water, permitting the mix to separate into two layers whereby the caramel color compounds are concentrated in the lower layer, separating the two layers of liquid, and separating the solid material from the lower layer.

2,637,656
CORN POPPING MACHINE
Roy J. Baunach, Toledo, Ohio
Application March 5, 1952, Serial No. 274,938
13 Claims. (Cl. 99—238.1)

4. In a corn popper, in combination, an upwardly open corn popping chamber, a kernel storage chamber, a popping oil storage chamber, a housing containing said storage chambers, a standard adjacent said popping chamber, means on said standard for mounting said housing in a first position overlying said popping chamber and providing for movement of said housing to a second position generally inverted and away from said first position for effectuating removal of popped corn from said popping chamber, metering means in each of said storage chambers for isolating measured quantities of kernels and oil from the mass in such storage chambers upon



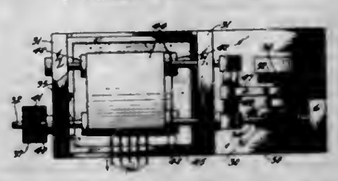
tilting of said housing and means for charging such measured quantities into said popping chamber.

2,637,657
THERMOSENSITIVE PAPERS AND COMPOSITIONS THEREFOR
Karlis V. Ozols, Brooklyn, N. Y., assignor to Product Development Laboratories, Inc., New York, N. Y.
No Drawing. Application June 10, 1946, Serial No. 675,817
6 Claims. (Cl. 106—178)

1. A thermosensitive salt composition, useful in the form of a thin adherent surfacing provided with a binder to hold it on a flexible carrier sheet and capable of recording a permanent contrasting colored trace when locally heated to an elevated temperature, said composition including a binder and comprising

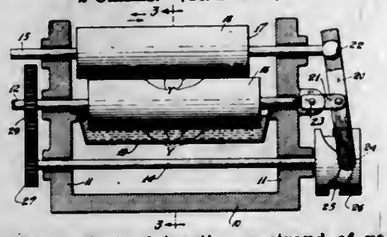
60 to 80 parts by weight of lead formate
5 to 30 parts by weight of mercuric oxalate
2 to 15 parts by weight of ethyl cellulose.

2,637,658
METHOD OF TREATING YARN
Louis P. Miller, Plainfield, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application November 6, 1948, Serial No. 58,774
3 Claims. (Cl. 117—7)
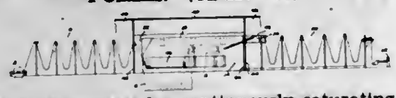


1. The method of treating a strand of yarn in twisted condition which comprises advancing the yarn in a lengthwise axial direction, applying pressure to a length of the yarn at diametrically opposite continuous lengthwise extending zones of engagement along the length of yarn while being advanced, applying back and forth movement tangentially with respect to the yarn at said zones of engagement to subject the yarn to a rolling action back and forth transversely to the axis of movement of the yarn while being advanced to thereby slightly untwist the yarn and open the same within said zones of engagement, and supplying liquid impregnant to the length of yarn within said zones of engagement.

2,637,659
METHOD OF TREATING YARN
Louis P. Miller, Plainfield, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application November 6, 1948, Serial No. 58,775
2 Claims. (Cl. 117—7)



1. The method of treating a strand of yarn in twisted condition which comprises moving the yarn in a lengthwise axial direction, applying pressure to the yarn at diametrically opposite points of engagement, applying back and forth movement tangentially with respect to the yarn at said points of engagement to subject the yarn to a rolling action back and forth transversely to the axis of movement of the yarn to thereby slightly untwist the yarn and open the same at said points of engagement, and supplying liquid impregnant to the yarn at said points of engagement.

2,637,660
PROCESS OF COATING
Miles G. Bigley, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application December 20, 1945, Serial No. 636,229
4 Claims. (Cl. 117—66)



3. In a process for continuously saturating a web of felted fibers with hot coke-oven tar containing naphthalene under conditions wherein the ambient temperature is below 60° F., the steps consisting of continuously passing said web into a bath of hot coke-oven tar containing naphthalene, continuously withdrawing said web directly from said bath and without intervening treatment into a confined atmosphere maintained at a temperature above the sublimation temperature of the naphthalene by commingling warm air with the vapors evolved from said bath whereby to permit evolution of naphthalene vapor from the impregnated web, thereafter withdrawing the impregnated web from said confined atmosphere into the ambient atmosphere, allowing it to cool sufficiently for winding into a roll and winding the cooled, impregnated web into a roll.

2,637,661
FUNGICIDAL COMPOSITION AND PROCESS OF USING SAME
Paul George Benignus, Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 28, 1945, Serial No. 585,384
3 Claims. (Cl. 117—103)

3. A process of rendering cellulosic substances resistant to attack by fungi and bacteria, comprising impregnating said substances with an aqueous solution containing metallo-ammonium ions having a metal residue selected from the group consisting of copper, cadium and zinc, in the presence of a water-miscible organic solvent for the corresponding pentachlorophenate of the metal herein described, an alkylated methylol derivative of a substance selected from the group consisting of melamine and urea, and a water-soluble pentachlorophenate, and thereafter removing water, ammonia and organic solvent from said cellulosic substances and baking said cellulosic substances at a temperature in the range of 135–170° C.

2,637,662
COMPOSITION AND METHOD OF ITS APPLICATION TO COTTON GLOVE FABRIC
Robert Nicol Russell, Gloversville, N. Y.
No Drawing. Application March 15, 1950, Serial No. 149,894
3 Claims. (Cl. 117—104)

1. The method of treating cotton glove fabric to thereby retain the original new and soft characteristics which includes impregnating the fabric under pressure with a dilute solution containing approximately 7% mineral oil, 4% lanolin, 3% stearic acid, 10% propylene glycol, 1.85% triethanolamine, 15% terpineol-almond extract, 2% quince seed gum, and the balance, up to 75% of water with .25% by volume of a penetrant and wetting agent formed of a suspension of liquid postules in a gaseous medium.

2,637,663
SULFOSUCCINIC ACID POLYESTERS OF FATTY ACID MONOGLYCERIDES
Jack T. Thurston, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 4, 1950, Serial No. 188,485
11 Claims. (Cl. 117—139.5)

8. A method of softening textile materials which comprises impregnating the textile with an aqueous dispersion of a polyester of sulfosuccinic acid with a substantially equimolecular quantity of a monoglyceride of a fatty acid having 12–18 carbon atoms, said polyester having at least 2 ester units, and thereafter drying the impregnated textile material.

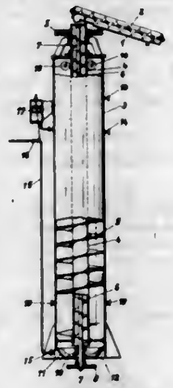
2,637,664
COATING ARTICLES WITH AN OLEFIN-SULFUR DIOXIDE RESIN
John F. Howe, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application June 23, 1949, Serial No. 100,975
11 Claims. (Cl. 117—148)

1. In a process for coating an article with a 1-butene-sulfur dioxide resin, which comprises forming an aqueous emulsion of liquid 1-butene and a molecular excess of sulfur dioxide, subjecting said emulsion to reaction conditions to produce in latex form a heteropolymeric resin from said butene and sulfur dioxide for a time sufficient to effect reaction of 70 to 97 per cent of said butene, vaporizing from a resulting latex unreacted 1-butene and sulfur dioxide, the improvement which comprises in combination the steps; adding to said latex sodium hydroxide in an amount sufficient to raise the pH thereof to between 4 and 8, coating an article with said latex, drying said coated article at a temperature between 150 and 210° F., and subsequently heating said coated and dried article at a temperature between 230 and 275° F. for a period between one minute and one hour.

2,637,665
IMPREGNATED PAPER AND METHOD OF MAKING SAME
Lloyd L. Dodge, Highland, Ill., assignor of one-half to Highland Manufacturing Company, Highland, Ill., a corporation of Illinois
No Drawing. Application July 20, 1950, Serial No. 175,007
2 Claims. (Cl. 117—158)

1. The method of treating a paper stock to condition the same for receiving printing inks and water-proofing compositions, which comprises impregnating said paper stock with an aqueous sizing composition having a solids content consisting essentially of from 20 to 50% of a hydrogenated methyl ester of rosin, from 20 to 50% of a glycerol ester of hydrogenated rosin and from 20 to 50% of paraffin wax, and drying the paper.

2,637,666
EXTRACTION TOWER FOR COMMINUTED MATERIAL OF VEGETABLE OR PLANT ORIGIN, PARTICULARLY SUGAR BEETS
Eugen Langen, Elsdorf, Germany
Application January 31, 1950, Serial No. 141,384
In Germany July 1, 1949
14 Claims. (Cl. 127—7)

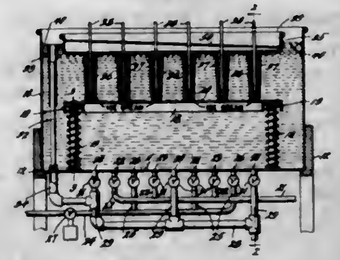


1. In an extraction tower for treating comminuted vegetable material, said tower having an upper inlet passage for water, a lower outlet passage for extracted juice, and an elevating spiral in the tower of a diameter equal to that of the interior of the tower, the combination of a tubular shaft serving as the shaft of the elevating spiral, a spiral in said tubular shaft for feeding said material downward, reversing means for directing the current of material from the bottom of said tubular shaft to the elevating spiral, said elevating spiral being interrupted at intervals, fixed abutments extending into the interruptions for retarding said material, and means for removing exhausted material.

2,637,667
PROCESS FOR PREPARING STEELS AND ALLOYS FOR ROLLING
William Oakley Binder, Niagara Falls, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application January 8, 1952, Serial No. 265,545
12 Claims. (Cl. 134—4)

1. A process for eliminating surface imperfections from metal which comprises exposing said metal to an atmosphere of a gaseous sulfur compound at a temperature of from 700° C. to 1200° C., effecting the dissociation of the compound to provide sulfur to combine with said metal, maintaining said metal at a temperature of from 700° C. to 1200° C., and subsequently removing from said metal a scale formed on the surface of said metal during said exposure to said gaseous sulfur compound.

2,637,668
METHOD AND APPARATUS FOR RELEASING FROZEN CONFECTIONS FROM MOLDS
Kosmas Eftihios, New Orleans, La.
Application July 19, 1948, Serial No. 39,554
8 Claims. (Cl. 134—5)



1. In an apparatus for releasing frozen confections from mold sections of a mold member, the contents of which have been frozen in a brine solution, each of said mold sections having adhering thereto droplets of brine, the combination of a tank adapted to receive a hot fluid bath, a platform mounted within said tank for vertical movement therein and adapted to support the mold sections containing the frozen confections as they are sequentially introduced into said tank, a plurality of springs disposed between the bottom of the tank and the platform for normally urging the platform to its elevated position and for limiting the downward movement of the platform when a mold containing the frozen confections is deposited upon the platform, automatic means for maintaining the hot fluid bath at a predetermined level below the upper edge of the mold member, and a plurality of legs having telescopic sections each of which is surrounded by one of said springs, one of the telescopic sections being mounted on the platform and the other telescopic section being mounted on the bottom of the tank.

3. The method of softening for quick release a frozen confection contained in molds comprising immersing said molds having adhering thereto prior to immersion in the softening bath droplets of brine solution comprising sequentially introducing the molds into a hot fluid bath to soften the frozen contents of the molds while resiliently and telescopically supporting for limited downward movement the molds within said bath with those portions of the molds containing the frozen confection immersed in the hot liquid and the up-

per edge of each of the molds at a level above the level of the hot liquid to prevent overflow of the hot fluid bath onto the frozen confection and maintaining the hot fluid bath at a predetermined level by continuously supplying thereto flowing warm water and continuously removing a portion of the hot bath.

2,637,669

PROCESS FOR THE STRIPPING OF MIRROR BACKING

Keith E. Brown, San Gabriel, and Francis E. Clark and Clark E. Jackson, Alhambra, Calif., assignors to Turco Products, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application January 17, 1947, Serial No. 722,767

13 Claims. (Cl. 134—28)

1. A process for stripping silver mirrors, which comprises immersing said mirrors in a water solution of a halide chosen from the group consisting of an alkali metal and ammonium halide at a temperature ranging from atmospheric to 200° F., and stripping the silver from the glass.

2,637,670

PROCESS FOR THE STRIPPING OF MIRROR BACKING

Keith E. Brown, San Gabriel, and Francis E. Clark and Clark E. Jackson, Alhambra, Calif., assignors to Turco Products, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application January 17, 1947, Serial No. 722,768.

11 Claims. (Cl. 134—29)

8. A process for removing silver mirror films from glass, which comprises immersing the mirror in a mirror stripping agent comprising a water solution containing sulfide ions at a temperature in the range of atmospheric to about 175° F., removing the mirror film from the glass, and washing the glass.

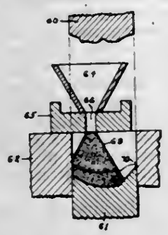
2,637,671

POWDER METALLURGY METHOD OF MAKING STEEL CUTTING TOOLS

Harry A. Pavitt, Shirley, Mass., assignor to Simonds Saw and Steel Company, Fitchburg, Mass., a corporation of Massachusetts

Application March 13, 1948, Serial No. 14,718

2 Claims. (Cl. 148—12.4)



1. The method of making a steel saw tooth comprising molding a compact of steel forming powders and sintering the same, and characterized in that a predetermined amount of powder comprising ductile iron, graphite and an alloyable percentage of an alloying metal selected and proportioned to form a tool steel is fed to an expanded pressure mold shaped to form an elongate body terminating at one end in a portion tapering towards a cutting edge and powder for the edge portion is initially located remote therefrom, and wherein pressure is applied to the mold to compress the elongate faces of the tooth and cause said remote powder to flow laterally at an angle to the direction of the mold pressure and lengthwise of the tooth directly towards said tapering edge portion and to be compacted by movement along a narrowing passage progressively towards the edge and provide a progressively higher density towards the edge and form a compact devoid of pressure laminations in the edge portion.

2,637,672

PROCESS OF PRODUCING BOLTS

Ezekiel F. Losco and Frederick C. Hull, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 22, 1950, Serial No. 180,664

4 Claims. (Cl. 148—12.7)

1. The process of producing a headed article from a wrought bar of an austenitic alloy having chromium and at least one of the elements selected from the group consisting of nickel, iron and cobalt as the base metal thereof and containing a precipitation hardening constituent, the wrought bar having a substantially uniform grain size at least as fine as No. 4 ASTM, the steps comprising, working the wrought bar at a temperature below the recrystallization temperature of the alloy to effect a reduction in area of from 10% to 25% and introduce work hardening therein, heading the bar at a temperature below 1650° F. to produce a head thereon, solution treating the headed bar at a temperature between 1750° F. and 2300° F. for a period of time between ½ and 4 hours to recrystallize the alloy whereby to remove work hardening therefrom and to produce a substantially uniform grain size throughout the head and the bar, quenching the headed bar, and ageing the quenched headed bar at a temperature between 1200° F. and 1600° F. for a period of time between 20 and 100 hours.

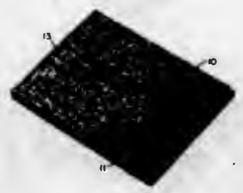
2,637,673

NONWOVEN FILM COATED FABRIC

Randolph H. Barnard, Waterville, Ohio, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio, a corporation of the United States

Application January 30, 1950, Serial No. 141,283

4 Claims. (Cl. 154—50)



1. As a new product of manufacture, a nonwoven fabric substitute consisting of a thin nonwoven semi-transparent mat of staple glass fiber forming a structural supporting base and a flexible fluid impervious film of lesser thickness bonded on one side thereof.

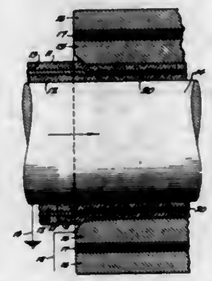
2,637,674

PREPARATION OF IMPREGNATED LAMINATED TUBES

William F. Stahl, Kenilworth, Ill.

Application August 31, 1946, Serial No. 694,340

4 Claims. (Cl. 154—83)



1. In a process for constructing a laminated impregnated tube, the steps of passing a tube formed of spirally-wrapped paper strips with adhesive therebetween, the strips being impregnated with a resin which is thermo-setting at a higher temperature than the crystallization temperature of said adhesive, through a pressure die while applying high frequency currents to the die, the frequency and magnitude of the currents being such as to raise the temperature of the tube first to the crystallizing temperature of the adhesive and then to the thermosetting temperature of the resin.

2,637,675

PROCESS FOR PREPARING LAMINATED BODIES OF CELLULOSIC MATERIALS AND PRODUCT

Walter M. Bain, Oak Park, Ill., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 7, 1952, Serial No. 275,465

18 Claims. (Cl. 154—138)

1. The method of preparing a laminated body comprising at least a pair of adhered cellulosic plies and characterized by its ability to retain its integrity and to exhibit water-resistance at the glue line of said plies when the body is immersed in water, said method comprising the steps of: applying to at least one surface of an alum-treated paper ply an aqueous film of quick-setting proteinaceous adhesive having a total dispersed solids content between 10% and 61% and an alkaline pH, and composed essentially of (a) finely-divided solids, (b) dispersed protein from the class consisting of casein, vegetable-seed protein and mixtures thereof, and (c) water, said finely-divided solids including mineral solids with the latter in a ratio to dispersed protein between about 1 to 10 and 10 to 1, and said adhesive having a ratio of water to protein of between about 3 to 1 and 19 to 1; and firmly contacting said film before it sets with another ply of cellulosic material, said alkaline film of adhesive being applied in sufficient thickness to bond said plies together while yet being sufficiently thin to be acidified to an acid pH substantially throughout its thickness solely by the acidity of the alum-treated paper of said laminated body.

2,637,676

INSECTICIDAL AEROSOL COMPOSITIONS COMPRISING A 1,1,1-TRICHLORO-2,2-BIS(ETHOXY METHYL PHENYL) ETHANE IN A CHLORO-FLUOROMETHANE

Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application April 1, 1950, Serial No. 153,489

5 Claims. (Cl. 167—30)

1. An insecticidal composition of superior knockdown characteristics consisting of a homogeneous liquid solution of a compound selected from the group consisting of 1,1,1,-trichloro-2,2-(4,4' - diethoxy - 3,3' - dimethyldiphenyl) - ethane and 1,1,1-trichloro-,2,2-(3,3'-diethoxy - 4, 4'-dimethyldiphenyl) -ethane in a chlorofluoromethane.

2,637,677

ARYL MERCURIC FUNGICIDE AND THE METHOD OF USING THE SAME

Robert A. Dinerstein, Park Forest, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application January 10, 1951, Serial No. 205,427

11 Claims. (Cl. 167—30)

1. As a new composition of matter a liquid water-soluble aryl mercuric salt having the general formula

$$R-Z\begin{matrix}-HgX\\-O-A-H\end{matrix}$$

where Z is an aromatic nucleus selected from the class consisting of benzene and naphthalene, X is an acid radical, R is a nuclear substituent selected from the class consisting of hydrogen and an aliphatic radical having from 1 to 18 carbon atoms, and A is a polyoxyalkylene ether chain containing oxy-alkylene groups selected from the class consisting of oxy-ethylene and oxy-propylene.

2,637,678

AEROSOL GENERATING AND PROPELLING COMPOSITION AND INSECTICIDE

Kenneth C. Peer, San Francisco, and Llewellyn W. Fancher, Lafayette, Calif.

No Drawing. Application October 18, 1949, Serial No. 122,144

11 Claims. (Cl. 167—40)

11. An aerosol generating and propelling composition for use in dispersion of materials capable of being transported and dispersed in an aerosol, comprising, the following reagents in approximately the following proportions:

	Parts
Potassium nitrate	2
Sulfamic acid	1 to 1.5
Thiourea	0.5 to 1

2,637,679

INTRAMUSCULARLY - ADMINISTRABLE PROLONGED - ACTION PENICILLIN PRODUCTS

William E. Gaunt, Dunellen, Elliot Bartner, Lake Nelson, and Hans A. Schaeffer, Elizabeth, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Application July 14, 1948, Serial No. 38,746

8 Claims. (Cl. 167—58)

1. A substantially-dry, stable composition capable of uniform suspension in an aqueous ve-

hicle to provide an intramuscularly-administrable, prolonged-action, penicillin preparation, essentially comprising a substantially water-insoluble salt of a penicillin, an intramuscularly-acceptable surface-active agent, and an intramuscularly-acceptable hydrophilic colloid.

2,637,680

METHOD FOR THE EXTRACTION OF INSULIN AS WELL AS ENZYMES FROM PANCREAS

Gustav Petersen, Roskilde, Denmark, assignor to Danske Andelsslagteriers Konservesfabrik A. m. b. A., Roskilde, Denmark

No Drawing. Application February 24, 1948, Serial No. 10,573. In Denmark March 31, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 31, 1963
3 Claims. (Cl. 167—75)

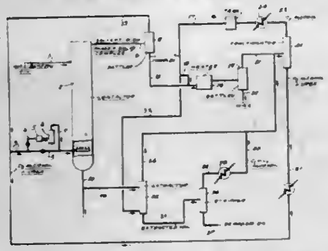
1. Method for the extraction of insulin as well as enzymes from pancreas, which comprises first extracting the insulin from fresh pancreas by means of alcohol at a pH between 6 and 7.0, the concentration and quantity of alcohol employed being such that the percentage of alcohol in the mixture produced when the amount of water contained in the glands is added will be between about 70 and 80 per cent by weight, and thereafter extracting the enzymes from the insulin-free residue.

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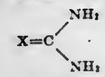
FRACTIONAL SEPARATION OF WAX FROM A HYDROCARBON MIXTURE USING AN ORGANIC COMPLEXING AGENT AND A SOLVENT

George B. Arnold, Glenham, and Howard V. Hess and William E. Skelton, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application December 9, 1948, Serial No. 64,272
4 Claims. (Cl. 196—17)



1. A continuous method of separating wax from a hydrocarbon mixture by treatment with a wax-complexing agent having the structure



where X is selected from the group consisting of oxygen and sulfur, which comprises passing a stream of said hydrocarbon mixture into the upper portion of a contacting tower maintained at a complexing temperature in the range about 70° F. to 125° F., passing a stream of C_3 alcohol at least saturated with said agent at the tower temperature, into the lower portion of said tower, effecting continuous counter-current contact therein between downflowing hydrocarbons and upflowing alcohol-containing complexing agent such that said agent enters into complex formation with wax constituents of the hydrocarbon feed mixture, removing from the top of said tower a stream of C_3 alcohol-rich phase containing solid complex, removing from the bottom of said tower a stream of oil-rich phase containing some complexing agent and C_3 alcohol, decanting at least some C_3 alcohol from removed alcohol-rich phase to leave a complex concentrate, treating resulting concentrate with C_1 alcohol at an elevated temperature sufficient to liberate wax from complexing agent and residual C_3 alcohol discharging liberated wax, passing a mixture of complexing agent, C_1 and C_3 alcohols from which wax has been removed to a fractional distillation zone, subjecting the aforementioned removed oil-rich phase to counter-current contact with C_1 alcohol such that retained complexing agent is extracted therefrom as an extract solution in C_1 alcohol leaving extracted oil retaining some C_1 and C_3 alcohols, distilling said C_1 and C_3 alcohols from the extracted oil, passing resulting distillate and said extract solution to the aforesaid fractional distillation zone, distilling C_1 alcohol from said distillation zone leaving a residual liquid concentrate of complexing agent, and recycling both said residual liquid concentrate and aforesaid decanted C_3 alcohol to the lower portion of said contacting tower.

2,637,682

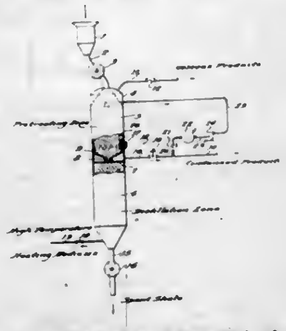
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2,637,683

DISTILLATION OF SOLID CARBONACEOUS MATERIALS

Louis S. Kassel, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application December 24, 1948, Serial No. 67,205
7 Claims. (Cl. 202—11)



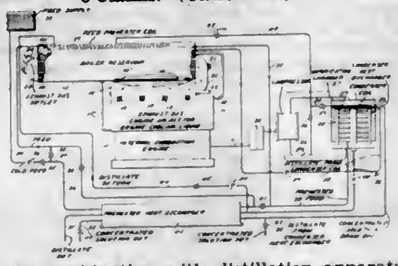
4. In the distillation and removal of valuable products from solid hydrocarbonaceous material wherein said material is passed in a crushed state downwardly through a distillation zone countercurrently to a high temperature gaseous heating medium to effect the removal of said valuable distillation products, the improved recovery method comprising, passing resulting distillation products and heating medium upwardly from the distillation zone to a super-imposed pretreating zone and countercurrently contacting a descending bed of crushed hydrocarbonaceous material being introduced thereto, effecting a preheating of said solid material and a partial condensation of distillation products in said pretreating zone, discharging uncondensed distillation products and substantially cooled heating medium from the upper end of said pretreating zone, collecting and discharging liquid condensate at the lower end thereof, restricting the cross-sectional area of said continuously descending bed of solid material at the lower end of said pretreating zone and regulating the upward flow of gaseous distillation products and heating medium to preclude the downward flow of liquid condensate with said solid material, regulating the withdrawal of condensate from said pretreating zone and maintaining a substantially constant depth liquid condensate body therein, passing the solid material through said liquid condensate body whereby to effect a controlled period of solvent action on said crushed solid material prior to its discharge to the lower high temperature distillation zone, and introducing a hydrocarbonaceous reflux stream to the upper end of said pretreating zone whereby to maintain the partial condensation of the heavier distillation products therein and an optimum depth of condensate in the lower portion of said pretreating zone.

2,637,684

ENGINE-DRIVEN VAPOR COMPRESSION DISTILLATION

Albert C. Buffum, Winchester, Mass., assignor, by mesne assignments, to Badger Manufacturing Company, Cambridge, Mass., a corporation of Massachusetts

Application May 8, 1945, Serial No. 592,573
8 Claims. (Cl. 202—75)



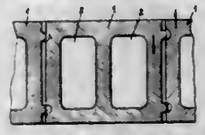
7. In combination with distillation apparatus comprising a vaporization chamber, a compressor, means for directing vapor from said vaporization chamber to said compressor for compression therein, a condenser heat exchanger within said vaporization chamber adapted to maintain fluid in out-of-contact heat exchange relation with solution within said vaporization chamber, means for directing vapor compressed by said compressor from said compressor to said condenser heat exchanger for condensation therein, means for supplying fresh solution to be distilled to said vaporization chamber, means for withdrawing concentrated solution from said vaporization chamber, means for withdrawing condensate from said condenser heat exchanger and an internal combustion engine for operating said compressor; an engine heat accumulator associated with said internal combustion engine, means for continuously directing a minor proportion of the condensate condensed in said condenser heat exchanger from said condenser heat exchanger to said engine heat accumulator, means for continuously directing the balance of the condensate condensed in said condenser heat exchanger out of the apparatus, pump means disposed between said condenser heat exchanger and said engine heat accumulator adapted and arranged for subjecting said minor proportion of condensate directed from said condenser heat exchanger to said engine heat accumulator to pressure, said engine heat accumulator being adapted to maintain said pressure therein and to convert to vapor at least part of said condensate directed thereto, and means for directing vapor from said engine heat accumulator to said condenser heat exchanger for condensation therein.

2,637,685

COKE OVEN CONSTRUCTION

Daniel Petit, Paris, France, assignor to Societe de Technique Industrielle, Paris, France

Application July 24, 1947, Serial No. 763,331
In France January 14, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 14, 1962
3 Claims. (Cl. 202—139)



1. A coke oven battery having horizontally elongated coke oven chambers arranged for the discharge of coke from each chamber by horizontal pressure against one end of the coke mass in the chamber and having heating walls alongside said chambers and having an intermediate portion of the battery structure, including the heating walls and coking chambers, made of silica bricks having a relatively high coefficient of thermal expansion, and having the portions of the battery structure respectively above and below said intermediate portion formed of material having a relatively low coefficient of thermal expansion, each of said heating walls being formed with a plurality of vertical expansion joints in and confined to said intermediate portion of the battery structure and arranged at intervals along the length of the wall and dividing the latter into a plurality of blocks of substantially less horizontal than vertical extent, and having vertical heating flues in each block and having a vertical series of horizontally extending projections at each of the adjacent edges of adjacent blocks with the lateral projections at each of said edges overlapping the said projections at the adjacent edge of the adjacent block, whereby said overlapping projections are operative to take up the vertical shear stress in the expansion joints caused by the said horizontal pressure against the coke mass in an adjacent coking chamber.

2,637,686

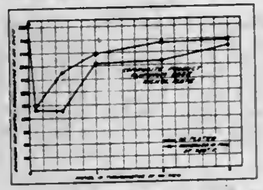
PROCESS OF PRODUCING DRAWN ARTICLES

Robert J. McKay, Basking Ridge, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application April 2, 1949, Serial No. 85,167
2 Claims. (Cl. 204—33)

1. A process for producing severely drawn articles of composite metal having high heat conductivity and non-corrosive properties which process consists of cleaning and etching a foundation layer sheet of a metal selected from the group consisting of aluminum and high aluminum alloys and having a thickness of from about .020 inch to about .040 inch, dipping said etched sheet in a concentrated nitric acid followed by rinsing in water, anodically treating said dipped sheet in a 35%–50% phosphoric acid solution at a temperature of about 80° F. with a current density of about 12 amperes per square foot for

a period of about ten to fifteen minutes, electrodepositing a layer of nickel on the plane surfaces of said foundation layer sheet and controlling the electrodeposition to produce a thickness of the nickel layer of from about .003 inch to about .004 inch and wherein the thickness of the nickel plating is 10% to 15% the thickness of the foundation layer whereby the tensile strength of the



composite foundation metal-nickel sheet is approximately double that of the tensile strength of said foundation layer, electrodepositing a layer of chromium of about .0002 inch to about .0003 inch on the exposed surfaces of said nickel layer, heat treating the composite sheet at a temperature of about 750° F. to about 800° F. for from fifteen to thirty minutes and deep drawing articles from the sheet so produced.

2,637,687

ELECTRODEPOSITION OF NICKEL

Lloyd B. Fortzer and William C. Leitenberger, Cleveland, Ohio

No Drawing. Application May 31, 1951, Serial No. 229,261

9 Claims. (Cl. 204—49)

1. A method of electrodepositing nickel from a nickel electrolyte comprising an aqueous acid solution of a nickel salt, comprising the step of electrolyzing said nickel electrolyte in the presence of a reduced triphenylmethane dye obtained by the reaction of the corresponding triphenylmethane dye with a reducing agent comprising zinc powder and hydrochloric acid, and a holding agent selected from the group consisting of sodium bisulfite and sodium hydrosulfite.

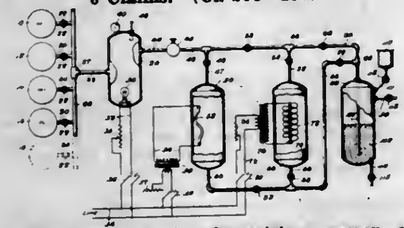
2,637,688

METHOD OF POLYMERIZING OXYGEN

Edmund J. Ryan, Miami, Fla.

Application February 7, 1950, Serial No. 142,831

6 Claims. (Cl. 204—157)



1. The method of polymerizing oxygen gas comprising preheating the gas to a temperature in the range of 100 to 800° F. and compressing the gas to a pressure in the range of 10 to 100 lbs. per sq. in. gauge, irradiating the gas with ultra violet light in the wave length of 2,000 to 4,800 A. U. while maintaining said temperature and pressure and then subjecting the gas under the same conditions of temperature and pressure to a high voltage corona discharge in the range of 11,000 to 18,000 volts.

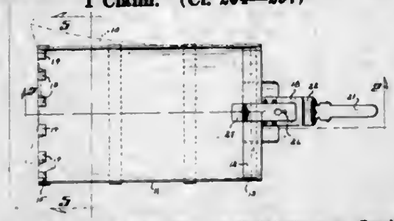
2,637,689

DEVICE FOR MAKING CURVED ELECTROPLATE SHELLS

Robert R. Myers, Jr., Des Moines, Iowa

Application January 21, 1949, Serial No. 71,773

1 Claim. (Cl. 204—297)



A holding device for maintaining a flexible flat mold having relief indicia in a curved condition during the plating of a shell thereon, said holding device comprising, an impervious trough portion arcuate in horizontal cross-section, a collar on the upper end of said trough overlapping and spaced apart from the inside of said trough, said collar having its length arcuate to conform with the inside arc of said trough and overlapping the upper marginal edge portion of said mold for detachably holding the same in curved condition and closely adjacent the inside of said curved trough portion, a bracket secured to said trough member having a raised flat portion, a headed stud on said flat portion, a spring tongue extending into said trough and yieldingly engaging said mold and having a bayonet slot for detachably engaging said stud, and a spring clamp means connected with said bracket for connecting the same to the support rod of a plating tank.

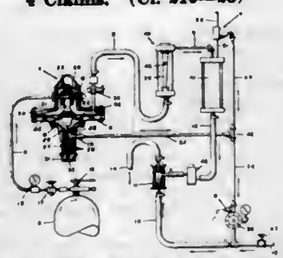
2,637,690

MEANS FOR MIXING AND FEEDING CHLORINE GAS

Roy B. Everson, Chicago, Ill.

Application February 11, 1950, Serial No. 143,710

4 Claims. (Cl. 210—28)



1. Chlorine gas feeding and control means comprising an injector having a discharge nozzle and located adjacent the point of application; a tank of chlorine gas under pressure; conduit means for delivering chlorine gas from said tank to said injector; hydraulically actuated regulator valve means in said conduit means adjacent said gas tank and effective to reduce the pressure of the chlorine gas from said tank; a water main through which water flows under pressure greater than the reduced gas pressure in said conduit means; a first branch pipe leading from said water main to said injector nozzle thereby to mix gas and liquid for delivery to the point of application at the terminal of said conduit; a second branch pipe leading from said water main to said regulator valve, whereby the pressure of the chlorine gas is reduced proportionate to the water pressure acting on said valve means; and an evacuator assembly in said conduit between said injector and regulator valve, said evacuator assembly having a valve and communicating with said water main, the liquid pressure in said water main being effective to normally seat said evacuator valve, and said valve being adapted to open upon the lowering of pressure in said water main below the gas pressure in said conduit means, and thereby evacuate to the atmosphere the chlorine gas from said conduit means.

2,637,691

WOOD PRESERVATION

Estes E. Pershall, Hazelwood, Mo., assignor to T. J. Moss Tie Company, St. Louis, Mo., a corporation of Missouri

Application July 16, 1951, Serial No. 236,994

9 Claims. (Cl. 252—8.1)

1. A treating solution for rendering wood fire-resistant before and after leaching with water comprising an ammoniacal solution of an ammoniated basic zinc chloride having a composition on the dry basis between approximately

$$.2ZnO:1ZnCl_2:2NH_3$$

and $4ZnO:1ZnCl_2:2NH_3$.

6. Wood which is fire-resistant before and after leaching with water comprising the product resulting from the impregnation and drying of wood with an ammoniacal solution of an ammoniated basic zinc chloride having a composition on the dry basis between approximately

$$.2ZnO:1ZnCl_2:2NH_3$$

and approximately $4ZnO:1ZnCl_2:2NH_3$.

2,637,692

OIL-BASE DRILLING FLUIDS

Paul G. Nahin, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application October 27, 1950, Serial No. 192,597

10 Claims. (Cl. 252—8.5)

5. A drilling fluid composition essentially comprising a major proportion of a mineral oil and a minor proportion, sufficient to impart gel strength and wall-building properties to said oil of a modified clay prepared by heating a hydratable clay at a temperature between about 250° and about 500° C. for from about 0.5 to about 10 hours, cooling the clay and forming a slurry of the cooled clay and an agent selected from the class consisting of glycols and alkyl ethers of glycols containing from 2 to 10 carbon atoms, allowing said slurry to stand until said agent is adsorbed into the inter-lamina spaces of the clay, and thereafter drying the clay containing the adsorbed agent.

2,637,693

YARN LUBRICANT

John L. Baggett and Marshall W. Duke, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application April 16, 1949, Serial No. 88,052

1 Claim. (Cl. 252—8.75)

A composition for the treatment of textile materials having a basis of cellulose acetate, which comprises a two-component composition consisting of (1) a mixture of 50 to 60 parts by weight of mineral oil, 4 to 12 parts by weight of tricresyl phosphate, 5 to 14 parts by weight of oleic acid, 2.5 to 7 parts by weight of triethanolamine and 0.25 to 0.75 part by weight of oleyl alcohol, and (2) 20 to 30 parts by weight of a conditioning agent comprising the desalted and dehydrated sodium hydroxide neutralized reaction product of oleum with a mixture of oleic acid, peanut oil and mineral oil, having diamyl phenol incorporated therein, which reaction product has been diluted with about 60% by weight of mineral oil, the two-component composition having a water content of about 1.3 to 1.6% by weight in equilibrium with the water content of the atmosphere at a humidity of 55 to 65%.

2,637,694

GREASE COMPOSITIONS

Walter H. Peterson, Point Richmond, and Thurston Skei, Lafayette, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application April 13, 1951, Serial No. 220,986

8 Claims. (Cl. 252—18)

6. A grease composition comprising a major proportion of a lubricating oil, a minor amount at least sufficient to impart a grease structure to said composition of a soap of a higher hydroxy fatty acid and from about 1% to about 20%, based on the weight of said soap, of magnesium hydroxide.

2,637,695

CALCIUM-SODIUM SOAP GREASES FROM HIGHLY OXIDIZED WAXES

John K. McKinley, Ben A. Scott, William H. Goff, and Roy F. Nelson, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application April 2, 1951, Serial No. 218,904

9 Claims. (Cl. 252—40)

1. A lubricating grease comprising essentially a mineral oil fraction of lubricating characteristics as the predominating constituent, and about 10–40% by weight of a mixed calcium-sodium soap of a saponifiable wax oxidate obtained by oxidizing a petroleum wax under controlled conditions to produce an oxidation product having a neutralization number in the range of from about 100 to about 300 and a saponification number in the range of from about 175 to about 450, said grease having a dropping point of at least 482° F., the proportion of sodium soap in said mixed calcium-sodium soap being at least 40% by weight.

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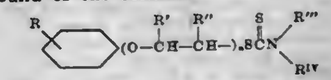
HYDROCARBON OIL COMPOSITION

Abraham D. Kirshenbaum, Philadelphia, Pa., and James M. Boyle, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 25, 1950, Serial No. 197,647

10 Claims. (Cl. 252—47.5)

1. A composition consisting essentially of a hydrocarbon oil and 0.01 to 5% by weight of a compound of the formula—



where R represents at least one aliphatic hydrocarbon side chain, the total number of carbon

atoms in all of such side chains being 1 to 18; where R' and R'' each represent a member of the group consisting of hydrogen and alkyl groups, the total number of carbon atoms in both of such groups being not greater than 4; where R''' and R^{IV} represent members of the group consisting of hydrogen and aliphatic and cycloaliphatic hydrocarbon groups containing 1 to 18 carbon atoms; where the total number of carbon atoms in all of the R, R''', and R^{IV} groups is not less than 4; and where n is an integer from 1 to 3.

2,637,697

LUBRICATING OIL ADDITIVE

Jeffrey H. Bartlett, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 30, 1948, Serial No. 68,377

13 Claims. (Cl. 252—56)

12. A mineral lubricating oil containing a minor amount of a polymerized ester of sorbic acid corresponding to the formula

$$CH_3CH{=}CH{-}CH{=}CH{-}COOR$$

where R is an alkyl group of from 10 to 18 carbon atoms.

2,637,698

MINERAL OIL LUBRICATING COMPOSITION CONTAINING A COPOLYMER OF AN ALKYL ESTER OF ITACONIC ACID AND AN ALKYL ACRYLATE OR METHACRYLATE

Thomas Stanford Tutwiler, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 30, 1948, Serial No. 68,378

4 Claims. (Cl. 252—56)

1. A lubricating oil composition consisting essentially of a major proportion of a mineral oil base stock and a small but viscosity index improving amount of a copolymer of an alkyl ester of itaconic acid wherein the esterifying group contains from 1 to 4 carbon atoms and a compound having the formula

$$CH_2{=}\overset{R}{\underset{|}{C}}{-}COOR'$$

wherein R is selected from the class consisting of hydrogen and a methyl group and R' is selected from the class consisting of the alkyl group containing from 8 to 24 carbon atoms.

2,637,699

SOAPLIKE COMPOSITIONS AND PROCESS OF MAKING SAME

Leon D. Gaithe, Managua, Nicaragua, assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application December 2, 1948, Serial No. 63,193

5 Claims. (Cl. 252—89)

1. The process of preparing a soap-like composition which comprises fermenting a proteinaceous composition of the type present in buttermilk, mixing the fermented composition with alkali metal hydroxide, aging the resulting mixture until it sets to a gel, removing free liquid from the gel and cooking the aged mixture until a sample thereof will flake off a spoon as it cools.

2,637,700

METHOD FOR PRODUCING BARIUM SALTS

Arthur C. Herbert, New Rochelle, N. Y., assignor to Barium Development Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 9, 1948, Serial No. 32,035

2 Claims. (Cl. 252—182)

1. A process for producing an artificial mineral mixture of barium carbonate and barite, adapted for the manufacture of selected barium salts free from sulfide impurities, which comprises adding ground barite to a strong boiling aqueous solution of soda ash, continuing to boil the mixture for a predetermined time, then adding a further similar boiling solution, and allowing the combined mixture to boil for a further predetermined time; then removing all the liquid while still hot, washing the solid residues with hot water, maintaining throughout temperatures not less than about 180° F., and thoroughly drying the resulting barite-barium carbonate complex.

2,637,701

SURFACE-ACTIVE PRODUCTS

Edward L. Doerr, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 28, 1950, Serial No. 203,205

10 Claims. (Cl. 252—351)

1. The condensation product of ethylene oxide with a mixture of a tertiary alkyl mercaptan having at least 8 and not in excess of 16 carbon atoms in the alkyl group, and an aliphatic monohydric alcohol having from 8 to 16 carbon atoms, said mixture containing at least 1% of said alcohol but not in excess of 50% thereof.

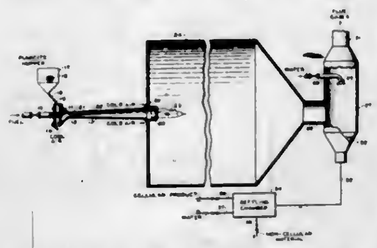
2,637,702

METHOD OF CONVERTING VOLCANIC ASH TO CELLULAR PARTICLES

Albert L. Burwell, Norman, Okla., assignor to University of Oklahoma Research Institute, a corporation of Oklahoma

Application October 3, 1949, Serial No. 119,257

7 Claims. (Cl. 252—378)



1. A process for cellulating and expanding particles of glassy volcanic rock of rhyolitic composition and containing more than 1 per cent water by weight, the water-impermeable portion of said particle having a weight per unit volume greater than 2 and particle size that will pass through a sieve having openings not greater than 1.0 millimeter, consisting in intimately mixing the particles while at a temperature not exceeding 400° C. with a combustible air-fuel mixture, in proportions that will yield a temperature in the ignited mixture in the range from 1250 to 1400° C., igniting the resulting mixture and controlling the pressure and length of flame so the time the particles are exposed to the processing temperature will be less than 0.1 second, passing the products of combustion in a horizontal direction and immediately mixing the horizontally flowing combustion products with cooler surrounding air on leaving the flame so as to quickly chill the thermoplastic particles therein to a temperature below 1100° C., thereby chilling and retaining the cellulated and expanded condition due to the thermoplastic state and vaporized water obtained at the above temperature and in the specified time.

2,637,703

AROMATIC-FREE MINERAL OIL RUST INHIBITING COMPOSITIONS

Thomas W. Dixon and Lorne W. Sproule, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 8, 1951, Serial No. 214,648

5 Claims. (Cl. 252—395)

5. A corrosion inhibiting composition comprising a substantially aromatic-free mineral oil containing dissolved therein an oil-soluble sodium petroleum sulfonate in an amount of 15 to 30 weight per cent, ethyleneglycol monobutylether in an amount of 0.75 to 1.5 weight per cent, and an agent selected from the group consisting of (1) a mixture of sorbitan monolaurate in an amount of from 3 to 6 weight per cent and sorbitan monooleate in an amount of 0.75 to 1.5 weight per cent, and (2) pentaerythritol monooleate in an amount of 2 to 4 weight per cent.

2,637,704

CONDENSATION PRODUCT OF POLYMERIC PHOSPHONITRILIC CHLORIDE, CHLOROANILINE, AND A POLYAMINO COMPOUND

Forrest R. Hurley, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 29, 1949, Serial No. 107,627

8 Claims. (Cl. 260—9)

8. Cellulosic material containing a condensation product of $(PNCl_2)_n$, where n is an integer having a value of from 3 to 12, an unsubstituted chloroaniline and a material selected from the group consisting of urea, guanylurea, guanidine, guanidine carbonate and aminoguanidine bicarbonate.

2,637,705

OIL-IN-WATER EMULSION TEXTILE PRINTING EXTENDER PASTES

Laszlo Auer, South Orange, N. J.

No Drawing. Application August 21, 1950, Serial No. 180,700

24 Claims. (Cl. 260—15)

1. An oil-in-water emulsion textile printing paste useful as extender for pigment printing and as a carrier for dyestuff printing comprising 47½% to 56% water, 0.3% to 0.8% high viscosity water soluble cellulose ether yielding in a 2% aqueous solution at least 1200 cps. viscosity at 20° C., and 43% to 51½% water immiscible hydrocarbon solvent, all percents being by weight, said water-soluble cellulose ether being dissolved in the water.

14. The product of claim 1, comprising a water soluble amine-aldehyde resin, said resin being present in quantities ranging from 50% to 250% of the cellulose ether content of the product.

2,637,706

ADHESIVES COMPRISING PHENOL-FORMALDEHYDE RESINS, CERTAIN POLYVINYL ACETAL RESINS AND RICINOLEATE ESTERS

Milton A. Bergstedt, Linden, and Robert H. Lamason, Bound Brook, N. J., assignors to Industrial Tape Corporation, a corporation of New Jersey

No Drawing. Application July 14, 1950, Serial No. 173,952

7 Claims. (Cl. 260—19)

1. An adhesive composition comprising a synthetic resin base including from about twenty-five to about sixty parts by weight of phenol formaldehyde condensation product and from about forty to about seventy-five parts by weight of at least one polyvinyl acetal selected from the group consisting of the polyvinyl propionals, the polyvinyl butyrals, the polyvinyl pentals and the polyvinyl hexals, and from about one-quarter of one per cent to about seven and one-half per cent by weight, based on the total of said condensation product and said polyvinyl acetal, of at least one ricinoleate ester.

2,637,707

OIL MODIFIED ALKYD RESINS FROM DEGUMMED SOYBEAN OIL AND MONOPENTAERYTHRITOL

Paul E. Marling and August R. Hempel, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 25, 1950, Serial No. 152,011

5 Claims. (Cl. 260—22)

1. The process of preparing a clear oil-modified alkyd resin comprising the alcoholysis of degummed soybean oil with monopentaerythritol in the presence of an alcoholysis catalyst until the methyl alcohol test shows the solubility of 1 part of product to at least 2.5 parts of methyl alcohol at room temperature, then esterifying the resulting product with a dicarboxylic acid anhydride selected from the group consisting of phthalic anhydride and a mixture of phthalic anhydride and maleic anhydride wherein the latter does not exceed 5 per cent by weight of the former.

2,637,708

PROCESS FOR PENTAERYTHRITOL-DEGUMMED SOYBEAN OIL-MODIFIED ALKYD RESINS

Paul E. Marling and August R. Hempel, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 27, 1950, Serial No. 152,276

7 Claims. (Cl. 260—22)

1. In the process of producing a degummed soybean oil-modified alkyd resin the step consisting of the reaction of pentaerythritol and degummed soybean oil at a temperature above about 450° F. for at least about 10 minutes prior to the introduction of the oil-soluble alcoholysis catalyst, then adding the said catalyst and continuing the alcoholysis until a clear solubility at room temperature of at least 2.5 parts by volume of methyl alcohol per part by volume of product is obtained, then esterifying the resulting product by adding a dicarboxylic acid anhydride until the acid value is reduced below about 15.

2,637,709

PRODUCTS AND METHODS: REACTING CASHEW NUT SHELL LIQUID AND POLYMERS WITH UNSATURATED FATTY ACIDS

Mortimer T. Harvey, South Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application September 9, 1950, Serial No. 184,109
4 Claims. (Cl. 260—23)

1. The method comprising heating a mixture of anacardic material selected from the group consisting of (1) decarboxylated cashew nut shell liquid, (2) liquid polymers thereof and (3) mixtures thereof and unsaturated fatty acid selected from the group consisting of palmitoleic, oleic, linoleic, linolenic, arachidonic, licanic, clupanodonic, eleostearic and ricinoleic acids and mixtures thereof, the mole ratio of said anacardic material to unsaturated fatty acid being in the range of 2–1 to 2–4, maintaining said mixture at elevated temperature under reflux conditions while removing water of reaction as it is formed and until the hydroxy content of the mass measures between 85%–50% of the hydroxy content of the original mixture.

2,637,710

ADHESIVE COMPRISING METHYL ISOPROPENYL KETONE-BUTADIENE COPOLYMER

George E. Hulse, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 26, 1948, Serial No. 35,531
9 Claims. (Cl. 260—27)

1. An adhesive composition comprising the copolymer obtained by the emulsion polymerization of a mixture of methyl isopropenyl ketone and butadiene in the ratio of from about 3:17 to about 9:11, and a resin tackifier, said copolymer being essentially completely soluble in benzene and having a Mooney viscosity of at least 100.

2,637,711

PIGMENT DISPERSIONS IN WATER

Laszlo Auer, South Orange, N. J.

No Drawing. Application June 22, 1950, Serial No. 169,791
20 Claims. (Cl. 260—29.2)

18. Dispersion of a by nature hydrophobic pigment in water, comprising (1) a water-and-pigment mixture component and (2) a dispersing agent component, said water-and-pigment mixture component consisting of 14% to 35% of hydrophobic organic pigment and 65% to 86% of water, and said dispersing agent component comprising a water soluble fatty alcohol sulfate, which is a member of the class consisting of salts of sulfates of lauryl alcohol, cetyl alcohol and oleyl alcohol, said dispersing agent component being used in proportions of 9% to 20% of fatty alcohol sulfate, based on the dry pigment content, said dispersing agent being in solution in said water and said pigment being in direct contact with said solution.

20. An oil-in-water resin emulsion pigment color concentrate comprising the dispersion of claim 18.

2,637,712

COPOLYMERS OF VINYL ACETATE WITH DERIVATIVES OF ALPHA, BETA-UNSATURATED DICARBOXYLIC ACIDS

Wilson Vincent Upton, New York, N. Y., assignor to National Starch Products, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 21, 1949, Serial No. 72,081
12 Claims. (Cl. 260—29.6)

1. The copolymerization process which comprises reacting under polymerization conditions the polymerizable mixture consisting of vinyl acetate and a compound selected from the group consisting of the anhydrides of alpha, beta-ethylenically unsaturated dicarboxylic acid and the mono-esters formed by the reaction of an alpha, beta-ethylenically unsaturated dicarboxylic acid with a saturated aliphatic alcohol, the proportion of said compound being not substantially greater than 10% based on the weight of the vinyl acetate.

2,637,713

MODIFIERS FOR SYNTHETIC RESIN MOLDING COMPOSITIONS AND PROCESS OF PRODUCING THE SAME

Tzeng Jiueq Suen and Arthur M. Schiller, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Original application March 21, 1950, Serial No. 151,031. Divided and this application October 13, 1951, Serial No. 251,248
5 Claims. (Cl. 260—30.4)

1. A molding composition comprising a urea-formaldehyde resin and the heat reaction product of an epihalohydrin with a compound having the general formula: $H[O(CH_2)_n]_mOR$, wherein R is a member selected from the group consisting of methyl and ethyl, n is an integer between 2–6, inclusive, and m is an integer between 1–6 inclusive, wherein said reaction product is produced under alkaline conditions.

2,637,714

PLASTICIZED VINYL HALIDE

William S. Emerson and Raymond I. Longley, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 26, 1951, Serial No. 228,534
7 Claims. (Cl. 260—31.4)

1. A resinous composition comprising a vinyl chloride polymer plasticized with a mixture of esters made by condensing diethylene glycol with a mixture of acids consisting of an aliphatic mono-olefinic acid of from 10 to 20 carbon atoms and an aromatic acid selected from the class consisting of benzoic acid and the toluic acids, said mixture of acids consisting of at least 10%, but less than 50%, by weight of the mono-olefinic acid.

2,637,715

EPOXY RESIN-POLYCARBOXYLIC ACID-DICYANDIAMIDE REACTION PRODUCTS

Gustav H. Ott, Riehen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application June 27, 1949, Serial No. 101,681. In Switzerland July 5, 1948
15 Claims. (Cl. 260—44)

5. A process for the manufacture of a resin solution suitable as raw material for making lacquers bakeable at high temperatures and yielding very heat resistant coatings, and prepared from a resinous derivative of a polyhydric phenol, which derivative contains at least two ethylene oxide groups and is obtained by reaction of a chlorhydrin selected from the group consisting of epichlorhydrin and dichlorhydrin on the polyhydric phenol in an alkaline medium, in which process a quantity of the ethylene oxide derivative which contains 1 mol of bound polyhydric phenol is heated in the presence of an organic solvent free from carboxyl groups (1) with from about ⅛ to at most ⅝ of one equivalent of a substance of the group consisting of (a) a polybasic carboxylic acid, of which the carboxyl groups are separated from one another by at least two carbon atoms, and (b) an anhydride of such an acid, and (2) with about 0.06 to 0.6 mol of dicyandiamide and wherein the heating is carried out also in the presence of an alkyl ether of a formaldehyde condensation product of a substance of the group consisting of melamine, urea, dicyandiamide and phenol.

2,637,716

EPOXY-RESIN, POLYCARBOXYLIC ACID POLYAMINE REACTION PRODUCTS

Gustav H. Ott, Riehen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application June 27, 1949, Serial No. 101,682. In Switzerland July 5, 1948
10 Claims. (Cl. 260—44)

5. A process for the manufacture of a resin solution suitable as raw material for making lacquers bakeable at high temperatures and yielding very heat resistant coatings, and prepared from a resinous derivative of a polyhydric phenol, which derivative contains at least two ethylene oxide groups and which is obtained by reaction of a chlorhydrin selected from the group consisting of epichlorhydrin and dichlorhydrin on the polyhydric phenol in an alkaline medium, in which process a quantity of the ethylene oxide derivative which contains 1 mol of bound polyhydric phenol is heated in the presence of an organic solvent free from carboxyl groups with from about ⅛ to at most ⅝ of one equivalent of a substance of the group consisting of a polybasic carboxylic acid, of which the carboxyl groups are separated from one another by at least two carbon atoms, and an anhydride of such an acid, and with 0.03 to 0.3 mol of a polyamine containing two $—NH_2$ groups separated from one another by at least two carbon atoms and wherein the heating is carried out also in the presence of an alkyl ether of a formaldehyde condensation product of a substance of the group consisting of melamine, urea, dicyandiamide and phenol.

2,637,717

METHOD OF PREPARING BLENDED POLYMERS

Costas H. Basdekis, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application May 26, 1950, Serial No. 164,628
19 Claims. (Cl. 260—45.5)

1. A method of preparing a mixture of polymers, which comprises mixing (a) an aqueous slurry of a polymer of at least 90 per cent acrylonitrile prepared in an aqueous medium in the presence of sufficient alkali metal salt of a peroxy acid to render the resultant dispersion acidic, and (b) aqueous emulsion of a polymer of at least 15 per cent of a tertiary amine containing a polymerizable carbon to carbon double bond, said emulsion being stabilized by the presence of a basic anionic wetting agent and separating the precipitated polymer blend.

2,637,718

COPOLYMERS CONTAINING HYDROGEN BONDED DIRECTLY TO SILICON

John B. Rust, East Hanover, N. J., assignor, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey

No Drawing. Application April 16, 1948, Serial No. 21,572
23 Claims. (Cl. 260—46.5)

1. An Si-H bond containing copolymer formed by cohydrolysis by water of any halogen and OR' groups present only of a silicohaloform derivative having the formula

$$R^1_{3-x}SiHR_x$$

where R is selected from the group consisting of halogen and OR' and R' is a monovalent hydrocarbon group, R^2 is a monovalent hydrocarbon group, and x is from 1 to 2, with a substituted silane having the formula

$$R^1_{4-y}Si(OR^2)_y$$

where R^2 and R^4 are monovalent hydrocarbon groups and y is from 1 to 3, the mole ratio of the silicohaloform derivative to the substituted silane being from 4:1 to 1:4.

2,637,719

SILOXANE COMPOSITIONS AND METHOD OF MAKING SAME

John E. Dereich, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application June 1, 1949, Serial No. 96,618
27 Claims. (Cl. 260—46.5)

1. The method which includes the steps of combining a compound of the general formula $RSi(OY)_nX_{3-n}$, wherein R is selected from the group consisting of alkyl, aryl, alkaryl, and aralkyl radicals, Y is selected from the group consisting of primary alkyl, aryl, alkaryl, and aralkyl radicals, X is halogen, and n is an integer from 1 to 2, inclusive, with a hydrolyzate of a compound of the general formula $R'R''SiX_2$, wherein R' and R'' are selected from the group consisting of alkyl, aryl, alkaryl, and aralkyl radicals, and X is halogen, and reacting the mixture thus obtained with a strong dehydrating mineral acid in the substantial absence of water.

2,637,720

METHOD OF POLYMERIZING ISOBUTYLENE IN THE PRESENCE OF N-BUTENES AND ETHER

Helmuth G. Schneider, Westfield, and Paul W. Brakeley, Jr., Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 30, 1949, Serial No. 118,996
1 Claim. (Cl. 260—82)

A method for preparing low molecular weight isobutylene polymers having a molecular weight range between 10,000 and 20,000, which comprises fractionating a light cracked petroleum fraction consisting essentially of hydrocarbons having four carbon atoms and containing isobutylene

and substantial amounts of butene-1 and butene-2, said petroleum fraction containing about twice as much total n-butenes as isobutylene, separating as a naphtha overhead from said fractionation about 50–90% of the total fraction, said naphtha overhead having a reduced butene-2 content from that of the original petroleum fraction, said naphtha overhead containing an amount of total n-butenes no greater than an amount approximately equal to the amount of isobutylene present, and polymerizing the said resulting separated naphtha overhead with boron fluoride at a temperature below 0° C. in the presence of about 0.1% of ether.

2,637,721

FIBER-FORMING COPOLYMER

Earl W. Gluesenkamp and George E. Ham, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application October 5, 1951, Serial No. 250,018

18 Claims. (Cl. 260—85.5)

1. A method of preparing dye-receptive polymers which comprises treating a polymer of at least 85 per cent of acrylonitrile and up to 15 per cent of other olefinic monomers, with from ten to 50 per cent of the stoichiometric equivalent of the nitrile groups of an alkyl haloacetate having the following structural formula:



wherein X is a halogen atom of the group consisting of chlorine and bromine and R is an alkyl radical having from one to four carbon atoms, in the presence of metallic zinc in an amount at least equivalent to the nitrile groups to be reacted, and at a temperature in the range of 70° to 110° C.

2,637,722

LUBRICANT AND METHOD OF MAKING SAME

David Frazier, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 31, 1950, Serial No. 165,382

12 Claims. (Cl. 260—139)

1. A method of improving the color of lubricants and lubricant additives which are reaction products of 5 to 60% by weight of a phosphorus sulfide and 95 to 40% of a mixture of one part by weight of an oxygen-containing organic compound selected from the group consisting of those compounds containing hydroxy, carbonyl, ether and carboxy radicals having a boiling point of at least 225° F. with 1 to 10 parts of a polyolefin having a molecular weight of about 2,000 to 100,000 and capable of improving the viscosity index characteristic of a lubricating oil, reacted together at a temperature in the range of 225° to 500° F., which method comprises treating such reaction products with an amount of an alkali hydroxide in the range of 0.1 to 0.75% by weight of the reaction mixture and sufficient to improve the color of the reaction product and then treating the resulting reaction product with an amount of a hydrogen peroxide compound in the range of 0.15 to 0.5% by weight of the reaction mixture and sufficient to improve the stability of the reaction product and recovering the improved reaction product.

2,637,723

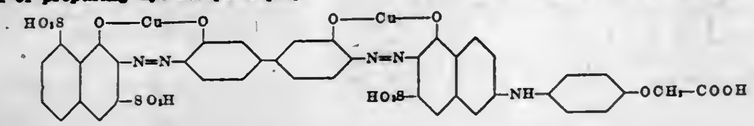
DISAZO DYESTUFFS CONTAINING COPPER

Walter Anderau, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application May 17, 1950, Serial No. 162,611. In Switzerland August 5, 1949

4 Claims. (Cl. 260—148)

2. The cupriferous dyestuff of the formula



2,637,724

METHYLOLSTREPTOMYCIN

Charles I. Jarowski, Flushing, and Francis X. Murphy, Elmhurst, N. Y., assignors to Chas. Pfizer & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application June 28, 1949, Serial No. 101,927

5 Claims. (Cl. 260—210)

1. A methylol-containing, water-soluble, biologically active condensation product of formaldehyde with a compound selected from the group consisting of streptomycin, dihydrostreptomycin and streptomycylamines.

2,637,725

COLLOIDAL FLAVONOL SYSTEM

Charles F. Krewson, Abington, Pa., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 2, 1951, Serial No. 254,626

6 Claims. (Cl. 260—210)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process comprising interacting a flavonol with an aqueous colloidal saccharated ferric oxide sol to produce a stable homogeneous aqueous colloidal flavonol saccharated ferric oxide sol.

2,637,726

RECOVERY OF CEREBROSIDES

Robert H. Sifferd, Joliet, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application November 2, 1951, Serial No. 254,658

6 Claims. (Cl. 260—210)

1. In a process for treating nerve tissue to isolate cerebrosides, the steps of extracting said nerve tissue with ethylene dichloride to produce an aqueous layer and an ethylene dichloride layer, separating the aqueous layer and adding thereto ethylene dichloride, heating the aqueous and ethylene dichloride mixture above 140° F. to cause the cerebrosides to enter the ethylene dichloride layer, and separating the ethylene dichloride layer and the cerebrosides therefrom.

2,637,727

N-(3,4,6-TRIACETYL-D-GLUCOSYL) PIPERIDINE AND METHOD OF PREPARING SAME

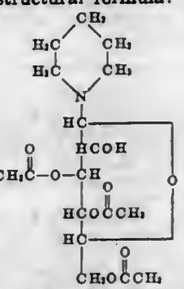
John E. Hodge, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application September 12, 1951, Serial No. 246,325

17 Claims. (Cl. 260—211.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. N-(3,4,6-triacetyl-D-glucosyl) piperidine of the following structural formula:



13. The method comprising mixing one molecular equivalent of pentaacetyl glucose with 2 to 4 molecular equivalents of piperidine at a temperature of 0° to 30° C., maintaining the mixture at least until N-(3,4,6-triacetyl-D-glucosyl) piperidine is formed in the reaction mixture, mixing the thus formed N-(3,4,6-triacetyl-D-glucosyl) piperidine with an agent of the group consisting of esterifying agents and aliphatic and aromatic halides, recovering the corresponding 2-acyl substituted N-(3,4,6-triacetyl-D-glucosyl) and 2-ether substituted N-(3,4,6-triacetyl-D-glucosyl) piperidine, respectively, from the reaction mixture, deacetylating the product and hydrolyzing the resulting N-(2-substituted-D-glucosyl) piperidine, thereby to produce one of the group consisting of 2-acyl-D-glucose and 2-ether substituted-D-glucose, respectively.

2,637,728

METHOD FOR THE PROTECTION OF ALCOHOLIC STEROID HYDROXYL GROUPS

Arnold C. Ott and Maxton F. Murray, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 18, 1949, Serial No. 111,097

29 Claims. (Cl. 260—239.55)

1. A method for the protection of a steroid alcoholic hydroxyl group by conversion to a tetrahydropyranyl ether group, consisting of forming the 2-tetrahydropyranyl ether of said steroid alcoholic hydroxyl group mixing the steroid alcohol with dihydropyran in the presence of a catalytic amount of an acid at a temperature between about zero and one hundred degrees centigrade.

2,637,729

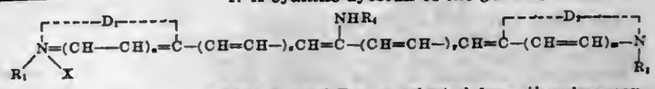
POLYMETHINE DYES

John David Kendall and Douglas James Fry, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application March 5, 1951, Serial No. 214,016. In Great Britain March 14, 1950

5 Claims. (Cl. 260—240.65)

1. A cyanine dyestuff of the general formula:



where R_1 and R_3 are selected from the class consisting of alkyl, hydroxyalkyl and aralkyl groups, R_4 is selected from the class consisting of alkyl, cycloalkyl, aralkyl and aryl groups, D_1 and D_2 are selected from the class consisting of residues of five-membered and six-membered heterocyclic ring systems of the type known for use in cyanine dyes, X represents an acid radicle, and n, m, x and y are each selected from nought and one.

2,637,730

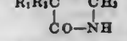
MANUFACTURE OF 4,6-DIKETO HEXAHYDROPYRIMIDINES

William R. Boon, Norman Greenhalgh, Eric London, and Charles Henry Vasey, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

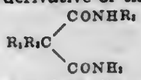
No Drawing. Application February 8, 1952, Serial No. 270,746. In Great Britain February 16, 1951

5 Claims. (Cl. 260—260)

1. Process for the manufacture of pyrimidine derivatives of the formula:



wherein R_1 represents a radical selected from the group consisting of monocyclic carbocyclic radicals and alkenyl radicals of from 1 to 3 carbon atoms, R_2 represents a radical selected from the group consisting of alkyl radicals and alkenyl radicals of from 1 to 3 carbon atoms, and R_3 represents a radical selected from the group consisting of hydrogen and alkyl radicals of from 1 to 4 carbon atoms, which comprises reacting a malondiamide derivative of the formula:



wherein R_1, R_2 and R_3 have the meaning set forth above, with formic acid at a temperature above 150° C. and below the decomposition temperatures of the reactants and resulting reaction products.

2,637,731

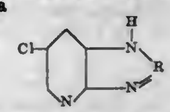
IMIDAZOPYRIDINES

James R. Vaughan, Jr., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 2, 1949, Serial No. 96,817

3 Claims. (Cl. 260—296)

1. The process of preparing compounds of the general formula



where R is chosen from the group consisting

of C—OH and C—SH, which comprises intimately contacting and allowing to react 2,3-diamino-5-chloropyridine with a phosgene of the group consisting of phosgene and thiophosgene, and recovering the above stated compounds.

2,637,732

PROCESS FOR THE MANUFACTURE OF PYRAZOLONES

Max Schmid, Riehen, and Eduard Moser, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application October 19, 1950, Serial No. 191,076. In Switzerland November 8, 1949
8 Claims. (Cl. 260—310)

1. A process for the manufacture of a pyrazolone containing a free amino group, which comprises condensing in an aqueous medium of about neutral to weakly acid reaction, one molecular proportion of an aryl-hydrazine corresponding to the formula

R—NH—NH_2

wherein R stands for an aryl radical containing an aromatically bound free amino group with one molecular proportion of acetoacetic acid amide, and recovering the amino-aryl pyrazolone thus formed.

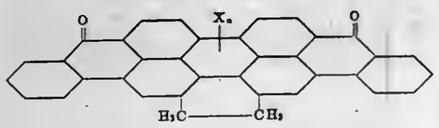
2,637,733

ETHYLENE-BRIDGED DIBENZANTHRONE COMPOUNDS AND PROCESS FOR THEIR PREPARATION

James M. Straley, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Original application April 4, 1950, Serial No. 153,996. Divided and this application June 1, 1951, Serial No. 229,543
3 Claims. (Cl. 260—353)

1. The compounds having the formula:



wherein X represents a member selected from the group consisting of a hydrogen atom, a chlorine atom, a bromine atom, a fluorine atom and a methyl group and n represents a small whole number selected from the group consisting of 1 and 2.

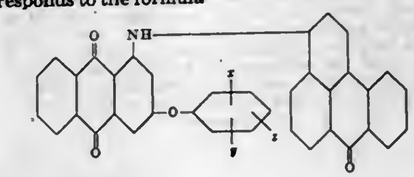
2,637,734

SULPHONATED (Bz-1-BENZANTHRONYL)-1-AMINOANTHRAQUINONE COMPOUNDS

Albin Peter and Jacques Günthart, Basel, Switzerland, assignors to Sandoz, A. G., Basel, Switzerland

No Drawing. Application December 19, 1949, Serial No. 133,942. In Switzerland December 28, 1948
5 Claims. (Cl. 260—364)

1. An acid anthraquinone dyestuff, obtained by treating with a sulphonating agent a (Bz-1-benzanthronyl)-1-aminoanthraquinone which corresponds to the formula



2,637,735

PROCESS FOR THE PREPARATION OF STEROID-17-CARBOXYLIC ACIDS

Albert Wettstein and Charles Meystre, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application May 7, 1948, Serial No. 25,796. In Switzerland May 14, 1947
14 Claims. (Cl. 260—397.1)

1. A process for the preparation of a steroid-17-carboxylic acid, which comprises splitting the conjugated double bond in a $\Delta^{20,22}$-21-hydroxy choladiene by subjecting the said choladiene to the action of an oxidizing agent, whereby the aetio acid is formed.

2,637,736

PROCESS FOR MANUFACTURE OF HIGH MOLECULAR WEIGHT ESTER FROM WATER MISCIBLE ALCOHOL

Richard E. Merz, Bayonne, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 29, 1950, Serial No. 182,139
5 Claims. (Cl. 260—410.9)

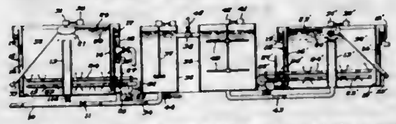
1. The process for esterifying oleic acid with isopropyl alcohol in the presence of an acidic esterification catalyst which comprises forming a reaction mixture of between 2 and 4 moles of isopropyl alcohol containing between 96 and 100% by volume of alcohol content per mole of the oleic acid, repeatedly esterifying the oleic acid in stages with added portions of said alcohol replacing alcohol distilled until nearly all oleic acid is esterified, intermittently between the stages removing alcohol and water formed from the reaction mixtures; neutralizing the esterification product with a portion of the alcohol retained therein, water washing the neutralized esterification product, and drying the washed isopropyl oleate ester thus produced.

2,637,737

RECOVERY OF FATTY ACID VALUES FROM AQUEOUS LIQUIDS CONTAINING SUCH VALUES

Fred S. Gibbs, Waban, Mass., assignor to F. S. Gibbs, Inc., Boston, Mass., a corporation of Massachusetts

Application March 19, 1949, Serial No. 82,332
18 Claims. (Cl. 260—412.5)



1. Method of treating water containing emulsified fatty acid and a compound reactable with the fatty acid to form an insoluble soap, which

comprises agitating the water to induce reaction of the acid with said compound, effecting agglomeration of the resulting soap particles by subjecting the liquid mass to relatively gentle agitation, introducing minute gas bubbles into the mass to elevate the agglomerated soap particles to the surface of the mass and removing the elevated particles from the surface, said gas bubbles being introduced in company with liquid and in a manner precluding substantial disturbance of said surface.

2,637,738

REACTION OF SILANES WITH ALIPHATIC UNSATURATED COMPOUNDS

George H. Wagner, Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application September 17, 1949, Serial No. 116,405
8 Claims. (Cl. 260—448.2)

1. In the process for making compounds containing the carbon to silicon bond by reacting one of the group consisting of unsaturated aliphatic hydrocarbons and halogen-substituted aliphatic unsaturated hydrocarbons with a silane containing at least one hydrogen atom and from two to three chlorine atoms attached to the silicon atom and in which any valence of the silicon atom not satisfied with hydrogen or chlorine is satisfied with a monovalent hydrocarbon radical, the step of promoting the reaction with a catalyst composed of platinum supported on charcoal.

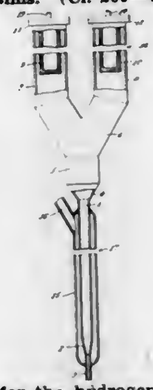
8. Beta,beta-difluoroethyltrichlorosilane.

2,637,739

SYNTHESIS OF ORGANIC COMPOUNDS

Henry G. McGrath, Elizabeth, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application August 21, 1948, Serial No. 45,467
11 Claims. (Cl. 260—449.6)



1. A process for the hydrogenation of carbon monoxide which comprises flowing a gaseous mixture comprising hydrogen and carbon monoxide through a reaction zone containing a mass of finely divided contact material in a fluidized condition, said contact material consisting essentially of one part by weight of cobalt in combination with between about 0.05 and about 0.2 part by weight of a difficultly reducible metal oxide and about two parts by weight of a support therefor consisting essentially of a substantially completely dehydrated synthetic silica gel containing between about 10 and about 15 weight per cent alumina, maintaining conditions of reaction such that hydrogen and carbon monoxide are converted to organic compounds as products of the process, and withdrawing a gaseous mixture from the reaction zone and recovering reaction products therefrom.

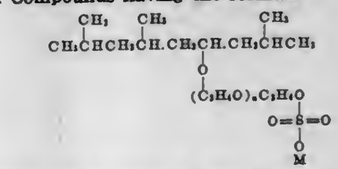
2,637,740

BRANCHED HIGHER ALKANOL SULFATES

Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 20, 1950, Serial No. 191,320
3 Claims. (Cl. 260—458)

1. Compounds having the formula



where n has a value of at least 2 but not in excess of 10, and M is a member of the class consisting of alkali metal and ammonium.

2,637,741

DIBENZYL TETRATHIODIGLYCOLATE

Leon Libenson, Pittsburgh, Pa.

No Drawing. Application June 6, 1951, Serial No. 230,260
1 Claim. (Cl. 260—481)

Dibenzyl tetrathiodiglycollate.

2,637,742

DIKETONES AND PROCESS FOR THEIR PREPARATION

Earl W. Gluesenkamp, Centerville, and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 20, 1950, Serial No. 185,902
14 Claims. (Cl. 260—483)

1. The process comprising the reaction of (A) a 3 to 12 carbon atom, saturated dialdehyde with (B) a 4 to 6 carbon atom, ethylenic-unsaturated polycarboxylic acid selected from the group consisting of maleic, fumaric, citraconic, mesaconic, itaconic, glutaconic and aconitic acids, esters thereof and mixtures thereof, said ester forming groups being selected from the group consisting of saturated hydrocarbon radicals containing up to 20 carbon atoms, in the presence of (C) a free-radical promoting peroxygen-type catalyst.

2,637,743

PREPARATION OF DERIVATIVES OF 1,4-DIAMINOBENZENE-N-SULFONIC ACID

Robert Lazare Lantz, Paris, and Gilbert Henri Victor Krémer, Ermont, France, assignors to Compagnie Française des Matieres Colorantes S. A. R. L., Paris, France, a company of France

No Drawing. Application March 20, 1951, Serial No. 216,666. In France November 30, 1950
3 Claims. (Cl. 260—500)

1. A process for preparing a water soluble salt of N-phenyl-1, 4-diaminobenzene-N'-sulphonic

acid which comprises heating an alkali metal bisulphite and a product to raise the pH of the mixture with N(4-nitrophenyl) amino benzene in the presence of water said product to raise the pH of the mixture being a member of the group consisting of caustic alkalies, alkali metal carbonates and sulphites.

2,637,744

EXTRACTION OF NAPHTHENIC ACIDS

Samuel Edward Jolly, Prospect Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application February 24, 1950, Serial No. 146,136

3 Claims. (Cl. 260—514)

1. In a process for purifying naphthenic acids in a countercurrent extraction zone having an extract-enriching section at one end and a raffinate-enriching section at the other, which process comprises feeding crude naphthenic acids, containing at least 25% naphthenic acids together with hydrocarbon oil, to said zone intermediate said sections, feeding into the raffinate-enriching end a solvent selective for naphthenic acids, flowing the solvent through said zone countercurrent to the feed, withdrawing from the raffinate-enriching section a raffinate phase rich in hydrocarbon oil, withdrawing from the extract-enriching section a solvent phase containing extract rich in naphthenic acids and refluxing to the extract-enriching operation extract which is substantially saturated with solvent, the improvement which comprises employing in said process a selective solvent composed of 75–100% acetonitrile and 0–25% water by weight.

2,637,745

HALOGENATED ARYL ALICYCLIC CARBOXYLIC ACIDS AND THEIR SALTS AND PROCESSES OF MANUFACTURING THE SAME

Erwin Schwenk, Montclair, N. J., and Domenick Papa, Brooklyn, N. Y., assignors, by mesne assignments, to Schering International Research Institute, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application April 19, 1948, Serial No. 21,853

14 Claims. (Cl. 260—520)

1. A member of the group consisting of acids of the formula

$$R-Y-Z$$
$$\quad\quad|$$
$$\quad COOH$$

and their non-toxic salts, R being an alicyclic radical having from 5 to 6 carbon atoms in the ring, Z being an m-halogeno-p-hydroxy-phenyl radical, the halogen being selected from the group consisting of chlorine, bromine and iodine, and Y being a saturated aliphatic chain of 2 carbon atoms, to different carbons of which the radicals R and Z are directly attached, the carboxylic group being attached to the same carbon as the alicyclic group.

2,637,746

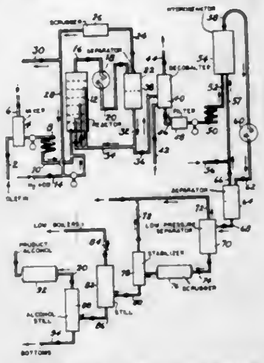
SYNTHESIS OF OCTYL ALCOHOLS

Paul T. Parker, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 12, 1948, Serial No. 43,919

7 Claims. (Cl. 260—638)

1. The continuous liquid phase process of producing octyl alcohols which comprises continuously feeding a hydrocarbon solution comprising substantially heptenes and a minor proportion of soluble cobalt salt of an organic acid into a single stage carbonylation reaction zone, feeding into said reaction zone a synthesis gas containing a fresh H_2 to CO ratio in the range of about 1.0–1.2 to 1, maintaining conditions of temperature in the range of about 300 to 360° F. and pressure in the range of about 2900 to 3400 p. s. i. g. within said reaction zone such that a major portion of said added cobalt salt is converted to cobalt carbonyl and a minor portion to cobalt metal within said reaction zone, maintaining metallic cobalt present at all times within said zone maintaining an olefin feed rate to said zone in the range of from about 0.4 to 0.6 v./v./hr., allowing said heptenes, carbon monoxide, hydrogen and cobalt carbonyl to remain resident within said reaction zone at said temperature for a time sufficient to convert substantial quantities of said heptenes to octyl aldehydes, withdrawing a solution comprising reaction products and dissolved cobalt carbonyl from said reaction zone, the weight percent cobalt concentration of which



solution is substantially equal to the weight percent cobalt concentration of the solution of heptenes and catalyst passed to said reaction zone, passing said solution to a separation zone, withdrawing liquid product from said zone, recycling a portion of said withdrawn product to said carbonylation reaction zone to provide cooling therefor, passing the portion of withdrawn product not recycled and wherein is dissolved carbonylation catalysts to a catalyst removal zone, maintaining said last named zone at a pressure substantially below that in said carbonylation zone, subjecting said product in said catalyst removal zone to a thermal treatment to remove dissolved cobalt carbonyl, withdrawing a solution comprising aldehyde product substantially free of dissolved cobalt compounds from said last named zone, passing said material to a hydrogenation zone, subjecting said material in said zone to a hydrogenation reaction, passing hydrogenated product to a distillation zone and recovering substantial yields of octyl alcohols.

2,637,747

FLUORINATION

Earl T. McBee, West Lafayette, Ind., assignor to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application January 23, 1948, Serial No. 4,072

14 Claims. (Cl. 260—653)

1. The method of preparing fluorinated saturated aliphatic compounds with three fluorine atoms on at least one terminal carbon atom

which consists of reacting hydrogen fluoride with a haloalkene having not more than three carbon atoms and having at least one terminal carbon atom containing only halogen substituents and which carbon atom is bonded to the adjacent carbon atom by an unsaturated linkage, and continuing the reaction until the halogen substituents on said carbon atom are all replaced with fluorine.

3. The method of preparing fluorinated saturated aliphatic compounds with three fluorine atoms on at least one terminal carbon atom which comprises reacting hydrogen fluoride in the presence of antimony pentachloride with a haloalkene having not more than three carbon atoms and having at least one terminal carbon atom containing only halogen susbtituents and which carbon atom is bonded to the adjacent carbon atom by an unsaturated linkage, the molar quantity of haloalkene exceeding the molar quantity of antimony pentachloride, and continuing the reaction until the halogen substituents on said carbon atom are all replaced with fluorine.

2,637,748

MANUFACTURE OF FLUOROORGANIC COMPOUNDS

Charles B. Miller, Lynbrook, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application October 2, 1951, Serial No. 249,403

7 Claims. (Cl. 260—653)

1. The process for converting CCl_3F to CCl_2F_2 which comprises introducing a gaseous material comprising CCl_3F into a reaction zone containing aluminum fluoride catalyst having crystallite size not substantially greater than 200 Angstrom units radius, heating said material in said zone at temperature substantially in the range of 150–350° C. for a time sufficient to convert an appreciable amount of said CCl_3F to CCl_2F_2, maintaining in said zone during said heating the presence of NO in amount substantially in the range of 1–5% by weight of said CCl_3F, withdrawing gaseous product from said zone, and recovering said CCl_2F_2 from said gaseous product.

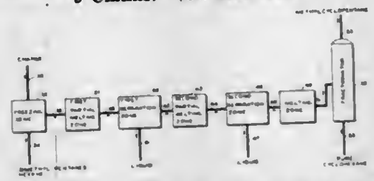
2,637,749

PROCESS FOR PURIFICATION OF CYCLOHEXANE

John G. Aston, State College, Pa., and Rodney E. Black, Sioux City, Iowa, assignors to Phillips Petroleum Company, a corporation of Delaware

Application December 28, 1948, Serial No. 67,672

9 Claims. (Cl. 260—666)



1. A method of preparing in a pure state at least one component of a multi-component mixture of organic compounds which are not decomposed by melting and which freezes as a solid solution, which comprises the steps of freezing a sufficient amount of the mixture to obtain a substantial portion of the desired component as a solid, subjecting the solid to at least one fractional fusion step in which sufficient heat is added to melt a portion of the solid, holding resulting solid and liquid phases in mutual contact under adiabatic conditions until phase equilibrium is attained, and withdrawing the resulting liquid to leave the desired pure product.

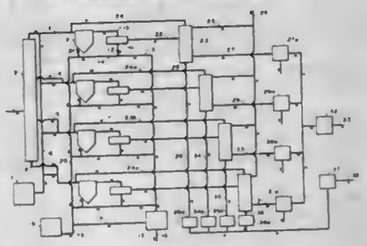
2,637,750

PRODUCTION OF MONOALKYL AROMATIC HYDROCARBONS

Fredrick M. Smith, Bartlesville, Okla., and Robert S. Hanmer, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application July 14, 1949, Serial No. 104,634

5 Claims. (Cl. 260—671)



The alkylation of an aromatic hydrocarbon with high molecular weight olefins to produce an alkylate product having not less than seven nor more than twenty carbon atoms to the molecule which comprises fractionating an olefin concentrate having an overall boiling range 350–500° F. into a plurality of fractions, separately alkylating said aromatic hydrocarbon with each of said fractions, separately fractionating each of the alkylates thus produced to form from each a fraction comprising monoalkyl aromatic hydrocarbons and a fraction comprising polyalkyl aromatic hydrocarbons and then combining said fractions comprising monoalkyl aromatic hydrocarbons to form a product.

2,637,751

ADHESIVE COMPOSITIONS FROM MIXTURES OF CHLORINATED AND HYPOCHLORINATED RUBBER

Lester A. Brooks, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application November 21, 1951, Serial No. 257,664

3 Claims. (Cl. 260—727)

1. A composition of matter which is useful in the uniting of rubber to metallic surfaces, the said composition consisting essentially of an admixture of at least one compound useful as a rubber antioxidant, chlorinated rubber having a chlorine content of about 65 to 67 per cent by weight, carbon tetrachloride, a solvent phase prepared by milling a natural rubber until the rubber is characterized by a reading within the range from about 17 to about 23 when tested on a Mooney viscosimeter using the large rotor and taking the reading at 12 minutes when operating the viscosimeter at 230° F., dissolving the milled rubber in at least one solvent selected from the group consisting of benzene, toluene and the xylenes to form a solution containing from about 3.5 to about 15 per cent by weight of the rubber, reacting such solution with an aqueous solution of hypochlorous acid containing from about 25 to 32 grams per liter of hypochlorous acid to provide an emulsion in which the solids

present therein have a chlorine content within the range from about 15 to about 17 per cent by weight, breaking said emulsion by the addition thereto of at least one salt selected from the group consisting of anhydrous calcium chloride and calcium chloride dihydrate and separating the phases formed upon the breaking of said emulsion, and sufficient amount of said solvent as is required to form a final composition having a viscosity of from about 50 to about 130 centipoises at 25° C. and containing hypochlorinated rubber within the range from about 10.4 to about 14.2 per cent, based upon the weight of the hypochlorinated rubber and the chlorinated rubber.

2,637,752

MANUFACTURING LEATHER SUBSTITUTE

Luciano Valentini, Turin, Italy

No Drawing. Application September 16, 1949, Serial No. 116,225. In Italy November 25, 1948
1 Claim. (Cl. 260—750)

Method of manufacturing a leather substitute of the chamois type, consisting in forming a mix of approximately the following composition by weight per cent:

Smoked sheets	48.00
Colored fibres	32.00
Stearic acid	0.15
Zinc oxide	4.00
Ventilated sulphur	1.50
Tetraethylthiuram disulfide	0.15
Mercaptobenzothiazol disulfide	0.55
Mineral oil	1.50
Phenylbetanaphthylamine	0.45
Carbon black	11.50

and in vulcanizing said mix in molds under a press at a temperature of about 125° C. during about 15 minutes at a pressure of about 50 kg./sq. centimeter.

2,637,753

PROCESS FOR CHLORINATING NATURAL RUBBER

Jerome Been and Martin M. Grover, Rutherford, N. J., assignors to Rubber and Asbestos Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application June 16, 1951, Serial No. 232,061
7 Claims. (Cl. 260—772)

1. A process for preparing chlorinated derivatives of natural rubber, in which a mass consisting of solid natural rubber is heated at a temperature of at least 400° F. until in a permanent liquid state and then reacted with a chlorinating agent selected from the group consisting of chlorine, sulfuryl chloride, and thionyl chloride.

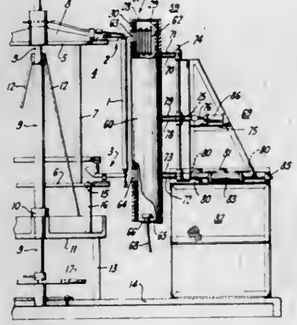
ELECTRICAL

2,637,754

OVEN CONSTRUCTION

Robert E. Shaw, Marblehead, and Sandford C. Peek, Jr., Salem, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application December 13, 1950, Serial No. 200,622
4 Claims. (Cl. 13—6)



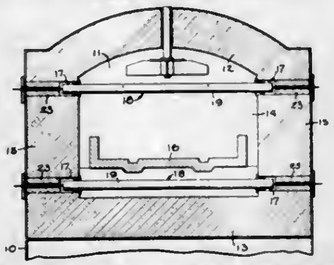
1. An oven for heating elongated vitreous articles comprising: a pair of wall members of insulating material disposed in a vertical plane; a plurality of separate radiant heating elements spaced from one another longitudinally along the longitudinal axis of said wall members and disposed adjacent to but spaced from the inner faces thereof; and a convection heating element disposed within the space defined by said wall members and located near the lower longitudinal ends thereof.

2,637,755

ELECTRIC HEATING APPARATUS

Harold N. Ipsen, Rockford, Ill.

Application February 16, 1950, Serial No. 144,399
4 Claims. (Cl. 13—25)



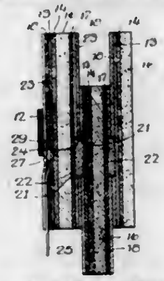
4. Heat treating apparatus having, in combination, means defining a chamber to be heated and including laterally spaced upright walls, means on said walls defining alined holes opening inwardly into said chamber, means contacting and fixed to said walls and closing the outer ends of said holes, a tube of refractory heat-resistant material of a size substantially smaller in external dimension than said holes and spanning said walls with the ends thereof projecting into and supported within said holes, at least one of said ends extending into its associated hole short of the closing means and resting loosely on the defining surface of said hole to permit free longitudinal expansion and contraction of the tube by movement of said one tube end toward and away from said closing means, an electrical resistance heating element disposed within said tube intermediate the ends thereof, said closing means having an aperture substantially smaller in size than said tube, and a lead wire extending through said aperture and connected to said resistance heating element.

2,637,756

DEFERRED ACTION BATTERY

Joseph J. Coleman and Milton E. Wilke, Freeport, Ill., assignors to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

Application January 25, 1951, Serial No. 207,722
9 Claims. (Cl. 136—111)



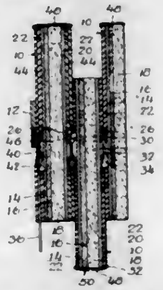
3. A rectangular flat primary cell comprising a sandwich-like arrangement of rectangular flat cell elements including an electrolyte-receptive element and two electrodes, said electrodes forming respectively the top and bottom flat facings of said cell, a substantially electrolyte-impervious wrapper coextensive with said flat facings and extending around a perimeter of said cell and leaving the two end surfaces thereof exposed, each exposed cell end being a composite of the exposed end surfaces of said cell elements and said wrapper, the exposed end surfaces of the cell elements and the wrapper being substantially in the same transverse plane.

2,637,757

DEFERRED ACTION BATTERY

Milton E. Wilke, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

Application September 5, 1951, Serial No. 245,142
5 Claims. (Cl. 136—112)



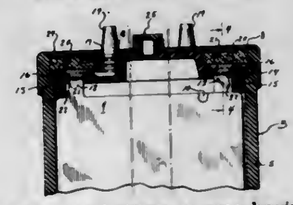
1. A primary battery adapted for energization by contact with a body of activating liquid, comprising a plurality of electrically connected flat cells, each cell comprising a plurality of flat cell elements including an electrolyte-receptive element, a substantially electrolyte-impervious non-conducting covering enclosing each said cell upon the four sides thereof and leaving the two opposite ends thereof unenclosed by said covering, said cells being generally parallel to each other and in face-to-face juxtaposed relationship and the ends of said cells being disposed toward the same two opposite sides of said battery, each cell being offset endwise thereof with respect to the cell adjacent thereto, the offset of each succeeding cell being in a direction opposite to that of the last cell to form a staggered succession of cells in which each succeeding cell projects endwise in the opposite direction from the last, closures upon the projecting ends of said cells of an adherent sealing composition, and the ends of said cells opposite the projecting ends thereof being open to the surrounding space for contacting a body of activating liquid.

2,637,758

STORAGE BATTERY

John K. Shannon, Kenosha, Wis.

Application September 23, 1948, Serial No. 50,713
5 Claims. (Cl. 136—166)



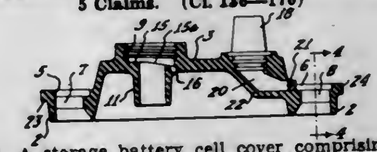
1. In a storage battery, a case having a cell compartment, battery plates in said compartment having upstanding lugs, a cover for said compartment, said cover comprising a body having a peripheral skirt and an interiorly hollow member providing a gas collection space rising above the level of said body centrally thereof, said hollow member having a filler opening formed therein, end portions of said cover having laterally extending recesses located adjacent the end edges of said cover, said recesses comprising wells having spaced slots extending downwardly through said cover to accept said lugs when the cover is placed in position, and a terminal member molded into said cover in said hollow member, said terminal member comprising an upstanding terminal post extending above said hollow member and a laterally extending connector member, a portion of said connector member lying in proximity to the slots in a said well, said lugs being burned down within said well into intimate connection with one another and with the said portion of said connector member.

2,637,759

STORAGE BATTERY CELL COVER AND CONSTRUCTION

John K. Shannon, Kenosha, Wis.

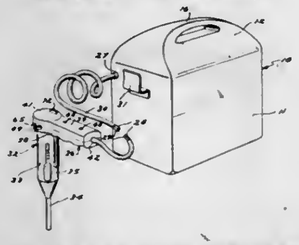
Application February 5, 1949, Serial No. 74,849
5 Claims. (Cl. 136—170)



1. A storage battery cell cover comprising a body having a peripheral skirt, an interiorly hollow member providing a gas collection space rising above the level of said body centrally thereof, a filler opening formed in said member, end portions of said body having laterally extending recesses with spaced slots extending downwardly through said body to accept the lugs of plates in a cell, and a terminal member comprising a

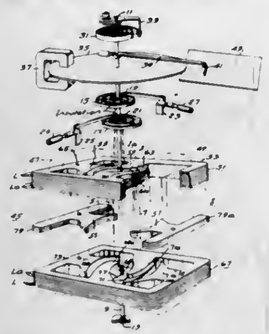
terminal post, a laterally extending neck and a connector member, molded into the interiorly hollow member of said cell cover so that said terminal post extends thereabove and said connector member extends laterally therefrom to the recess at one end of said body, a portion of said connector member lying in proximity to the slots in said recess whereby connection may be effected in said recess between plate lugs extending through said slots and said connector member.

2,637,760
STORAGE BATTERY TESTING AND FILLING APPARATUS
Harold F. Nelson, St. Paul, Minn.
Application February 20, 1950, Serial No. 145,215
19 Claims. (Cl. 136—182)



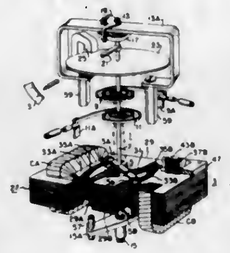
1. A portable apparatus for testing and filling storage batteries, comprising a hydrometer device for testing the battery, means operated by compressed air for drawing acid from the battery into the hydrometer device to make a test thereof, means for then returning the acid to the battery, the apparatus including a supply of distilled water under pressure, and means associated with the hydrometer device for supplying the water to the battery according to need.

2,637,761
MOVING-COIL ELECTRICAL INSTRUMENT
Douglass A. Young, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 30, 1948, Serial No. 5,404
28 Claims. (Cl. 171—95)



1. In an electrical instrument, a stator structure, a rotor assembly including a coil, means mounting the rotor assembly for rotating the coil relative to the stator structure through a predetermined path, means responsive to energization of said coil alone for developing solenoid torques urging the coil relative to the stator structure towards an intermediate position in said path, and compensating means for producing torques acting between the rotor assembly and the stator structure for urging the coil away from the intermediate position in a direction determined by the position of the coil relative to the intermediate position to compensate for said first-named torques.

2,637,762
MOVING-COIL ELECTRICAL MEASURING INSTRUMENT
Lawrence J. Lunas, Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1949, Serial No. 113,927
13 Claims. (Cl. 171—95)

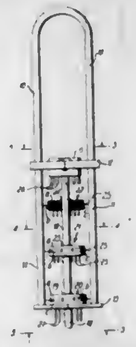


1. In an electrical instrument, coil means comprising a pair of spaced coil sides substantially equidistant from any point on a common axis, a magnetic structure having a separate air gap for each of the sides of the coil means, said magnetic structure having a passage communicating with the air gaps through which the coil means may be removed from operative relationship relative to the magnetic structure without disturbing the magnetic structure, means mounting the coil means for rotation relative to the magnetic structure about said axis, said magnetic structure providing a pair of asymmetric paths for magnetic flux produced by current flowing through said coil means to produce solenoid forces acting between the magnetic structure and the coil means, and winding means positioned on said magnetic structure to develop a magnetomotive force across at least one of the air gaps, said winding means being connected for energization in accordance with energization of the coil means for substantially neutralizing said solenoid forces.

2,637,763
PLUGGABLE SUPPORT FOR ELECTRON TUBE AND CIRCUIT
Ralph L. Palmer, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 9, 1948, Serial No. 37,896
12 Claims. (Cl. 173—328)

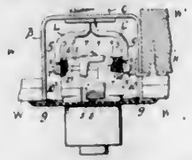
12. In a pluggable unit for retaining electronic circuit components, an inverted U-shaped member, a tube socket for retaining and electrically connecting prongs of an electron tube and including circuit element connectors, insulating means supporting a plurality of prongs each having a connector portion extending therefrom, means connecting said tube socket and said insulating means to said inverted U-shaped member, and supporting means located between said

insulating means and said socket and providing support for electrical circuit components to be



connected between said connector portions and said socket connectors.

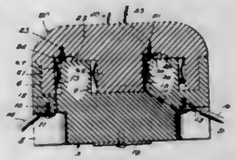
2,637,764
INTERLOCKING ELECTRICAL CONNECTOR
Fletcher E. Maxwell, Glendale, Calif.
Application July 11, 1949, Serial No. 104,067
9 Claims. (Cl. 173—330)



1. A connector for electrical conductors comprising a pair of assemblies having identical interengaging and contact effecting elements; each of said assemblies comprising a semi-cylindrical plug portion and a plug receiving socket having a plug receiving opening disposed with the flat side thereof in juxtaposition to the flat side of said plug; said plug within said opening being reduced segmentally in cross section with resultant increase of said socket to segmental form of greater than semi-circular extent, a first contact member projecting into said socket, a second contact member housed within said plug and terminating in a contact surface adjacent the outer end of said plug, and an opening in a side wall of said plug opposite said contact surface through which said first contact member of one of said assemblies may enter and engage said contact surface of the other assembly when said assemblies are interengaged with the plug portion of each assembly disposed in the socket portion of the other assembly.

2,637,765
ELECTRICAL PLUG AND WALL SOCKET
John Zalduondo, Hato Rey, P. R.
Application July 10, 1950, Serial No. 172,839
1 Claim. (Cl. 173—330)

A separable contact device comprising a body of non-conducting material having a circular recess and an annular groove opening through one side thereof, said recess and said groove lying in concentric spaced relation to define between them a circular partition wall, a mating body of non-conducting material having an annular groove opening through one side thereof and defining an axial boss for entrance into the circular recess in the first mentioned body, said mating body having a peripheral concentric groove therein defining with the annular groove thereof an annular flange for entrance into the annular groove in the first mentioned body, the annular grooves in both bodies being uniform in depth to define wholly closed annular chambers when the bodies are assembled, a contact prong carried by the first mentioned body and extending into the annular groove therein adjacent the outer wall thereof, a group of peripherally spaced clips carried by the first mentioned body and extending into the groove therein adjacent the outer wall thereof, said prong and said clips being bowed longitudinally with their concave sides disposed toward the adjacent side wall of the groove, a second contact prong carried by the first mentioned body and extending into the recess there-

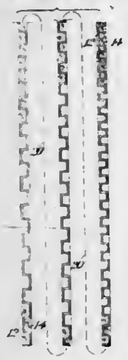


in adjacent a side wall thereof, a second group of peripherally spaced clips carried by the first mentioned body and projecting into the recess therein adjacent the peripheral wall thereof, said prong and said clips being bowed longitudinally and having their concave sides disposed adjacent the peripheral wall of the recess, a contact ring carried by the second mentioned body and extending around the boss thereof for entrance with said boss into the recess and for contact with the prong and clips therein, a second contact ring carried by the second mentioned body and extending around the annular groove therein adjacent the flange for entrance therewith into the annular groove in the first mentioned body and engagement with the prong and clips in the annular groove in the first mentioned body, and the rings being concavo-convex in cross section to releasably engage the prongs and clips to thereby maintain themselves in contact with said prongs and clips and the bodies together.

2,637,766
METALLIZED PAPER CAPACITOR
Richard Alfred Grouse, London, England, assignor to A. H. Hunt Capacitors Limited, London, England, a British company
Application January 11, 1949, Serial No. 70,237
In Great Britain July 15, 1948
7 Claims. (Cl. 175—41)

1. An electrical capacitor roll suitable for use in capacitors of small size and low capacity, comprising a convolutely wound single elongated thin, narrow web of dielectric material having upon one surface thereof a longitudinally extending series of extremely thin low resistance metallic film electrodes forming a repeated pattern, some of said electrodes extending inwardly from one edge of the web and others extending inwardly from the opposite edge of the web, those electrodes terminating at one edge of the web being electrically insulated by a non-metallized area of the web from the electrodes terminating at the opposite edge and the electrodes of each such

series of electrodes being electrically connected by portions of the metallic film deposited upon



said web, the electrodes of one polarity overlying the electrodes of the other polarity.

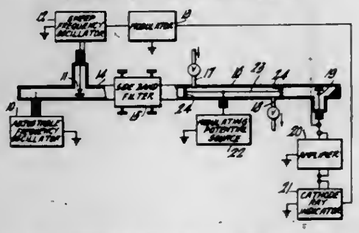
2,637,767

WIDE BAND MICROWAVE SPECTROSCOPY

William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 16, 1949, Serial No. 105,245

10 Claims. (Cl. 175—183)



1. In microwave spectroscopy, a method which comprises enclosing gas to be analyzed in a large, high Q resonant cavity having a Stark electrode therein and subject to a plurality of cavity-moding resonances, subjecting the gas to microwave energy repeatedly swept over a frequency range including a plurality of gas-absorption frequencies and a plurality of cavity-moding resonant frequencies, applying to said electrode a potential modulated at a frequency substantially different from the sweep frequency of said microwave energy, demodulating the microwave energy output of said cavity, and electrically filtering the modulation-frequency component of the demodulated energy from the sweep-frequency component thereof thereby separating the gas absorption responses from the cavity-moding resonance responses.

4. A wide-band microwave spectroscope comprising a microwave oscillator, a modulator for repeatedly varying the frequency of said oscillator over a wide range at a low sweep frequency, a cell for containing gas to be analyzed and itself exhibiting resonance at frequencies within said wide range, means for impressing upon said cell the microwave energy whose frequency is swept over said wide range, a Stark electrode in said cell, means for varying the potential of said Stark electrode at a modulating frequency substantially higher than said sweep frequency, means including a demodulator and a frequency-selective network for deriving from microwave energy transmitted through said cell a sweep-frequency signal having components dependent upon the frequency/output characteristics of the oscillator and of said cell over said wide range of frequency, means including a second demodulator and frequency-selective network for deriving from microwave energy transmitted through said cell a modulating frequency signal having components dependent upon aforesaid frequency/output characteristics and upon the absorption of microwave energy by said gas, an amplifier for said modulating-frequency signal, means for controlling the gain of said amplifier in accordance with the variations in amplitude of said sweep-frequency signal, and exhibiting means responsive to the output of said amplifier.

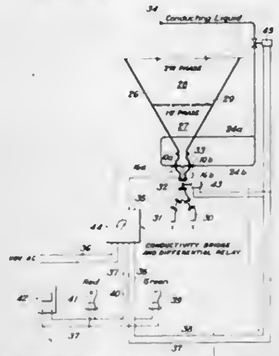
2,637,768

METHOD OF AND APPARATUS FOR MEASURING CONDUCTIVITY OF LIQUIDS

Charles E. Bragg, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application August 30, 1949, Serial No. 113,077

8 Claims. (Cl. 175—183)



3. An interface indicator which comprises a pair of hollow metallic electrodes which are electrically insulated on their exterior surfaces and which are provided with discharge ends of small cross-sectional area mounted in a liquid container with their discharge ends closely spaced and geometrically arranged to prevent impingement of streams discharged therefrom, said electrodes being insulated from said container, connections for introducing a conducting liquid through said hollow electrodes and electrical connections for passing a current from the metal conducting surface of one electrode through the conducting liquid being discharged therefrom, thence through the liquid in the container which is between the two electrodes, and finally through the conducting liquid discharged from the other electrode to the conducting surface of the other electrode.

6. The method of measuring the conductivity of a test liquid containing components which would normally foul electrodes by forming deposits thereon, which method comprises injecting continuously flowing streams of a conducting liquid into the test liquid at spaced points, effecting a relative movement between the test liquid and the points of injection of the conducting liquid streams for preventing accumulation of the conducting liquid at the points of its introduction, contacting each introduced stream with a metallic electrode surface which is electrically insulated from the test liquid and which is kept clean by the flowing stream of conducting liquid, and passing an electrical current from one conducting metallic surface through the liquid stream flowing past said surface, thence through the portion of the test liquid which is between the introduced streams, and thence through the second introduced stream to the second metallic surface.

2,637,769

MEANS FOR SUPPRESSING ARCING AT CONTACTS BREAKING A DIRECT CURRENT INDUCTIVE CIRCUIT

Alec Hervey Bennett Walker, London, England, assignor to Westinghouse Brake and Signal Company, Limited, London, England

Original application May 18, 1950, Serial No. 162,616. Divided and this application December 14, 1951, Serial No. 265,681. In Great Britain May 31, 1949

7 Claims. (Cl. 175—294)



1. In combination with a source of direct current, a pair of cooperating contact members, and an inductive circuit connected in series with said contact members across said source; an arc suppressing arrangement comprising, a rectifier, and a battery connected in series with said rectifier directly across the inductive circuit, the rectifier being so poled as to oppose the flow therethrough of current from said battery and from the source of direct current, whereby the surge energy due to the opening of said contact members passes into and is absorbed by the battery when the voltage of the surge exceeds a value determined by the battery.

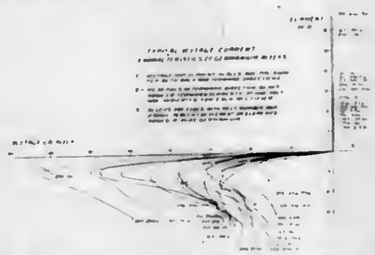
2,637,770

ALLOYS AND RECTIFIERS MADE THEREOF

Karl Lark-Horovitz, Lafayette, and Randall M. Whaley, West Lafayette, Ind., assignors to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana

Original application July 13, 1945, Serial No. 604,744, now Patent No. 2,514,879, dated July 11, 1950. Divided and this application December 23, 1948, Serial No. 66,946

13 Claims. (Cl. 175—366)



1. An electrical device comprising a semi-conductor, a counter electrode having substantially point contact with said semi-conductor and a second electrode having an area of contact with the said semi-conductor which is large compared to that of the counter electrode, said semi-conductor comprising an alloy of germanium having a purity of the order of 99% in combination with nitrogen to provide a device having a peak back voltage in the range in excess of 10 volts and approaching the order of 200 volts, said alloy being one as made by melting germanium having a purity of the order of 99% in an atmosphere of nitrogen at a pressure of about 2 mm. to 760 mm. Hg, at a temperature of about 1000° C.–1050° C. for about 5 to 15 minutes.

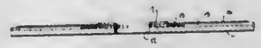
2,637,771

RECTIFIER

Gerald Tumulo, Bryn Mawr, N. Y., assignor to Radio Receptor Company, Inc., Brooklyn, N. Y., a corporation of New York

Application April 15, 1950, Serial No. 156,191

12 Claims. (Cl. 175—366)



1. A dry disc rectifier in combination with a base plate having a mounting edge, a layer of semi-conductor material superimposed on one surface of said base plate and extending to the mounting edge thereof, a layer of counter-electrode material superimposed on at least a portion of the exposed surface of said semi-conductor excepting that zone thereof adjacent the mounting edge, and a layer of compressible insulating material superimposed on the exposed portion of the semi-conductor adjacent the mounting edge said insulating material being initially of slightly greater thickness than the counter-electrode layer and being compressible in assembly to the thickness of the counter-electrode layer.

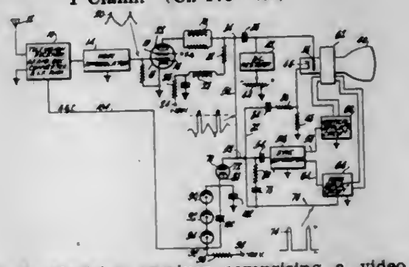
2,637,772

KEYED AUTOMATIC GAIN CONTROL

Karl R. Wendt, Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 7, 1948, Serial No. 37,434

1 Claim. (Cl. 178—7.3)



In a television receiver comprising a video amplifier having an output terminal, said video amplifier output terminal being connected to a source of potential positive with respect to ground, said receiver being adapted to receive a television signal having a recurrent pulse component, an automatic gain control circuit comprising: a unilateral conduction device having an anode and a cathode, a direct current connection between the anode of said unilateral conduction device and said video amplifier output terminal to apply television signals to said unilateral conduction device with a polarity such that said recurrent pulse component tends to oppose conduction therein, a source of keying pulses oc-

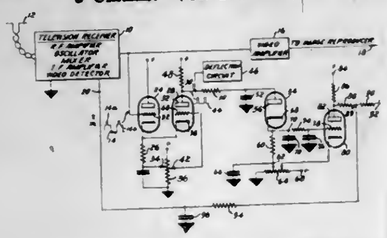
curring only during the occurrence of said recurrent pulse component, means to apply said keying pulses to said unilateral conduction device with such polarity as to tend to produce conduction therein and with such amplitude as to conditionally overcome said recurrent pulse component thereby establishing conduction in said diode, a storage capacitor connected between the cathode of said unilateral conduction device and ground, a source of potential negative with respect to ground, at least one glow tube having a first and a second electrode, a connection between the first electrode of said glow tube and the cathode of said unilateral conduction device, a resistance connected between the second electrode of said glow tube and said source of negative potential, and a connection from a point between said glow tube second electrode and said resistance to said television receiver to control the gain thereof.

2,637,773

AUTOMATIC GAIN CONTROL SYSTEM

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 1, 1948, Serial No. 62,862
3 Claims. (Cl. 178—7.3)



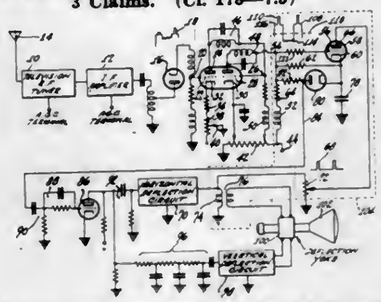
1. In a television radio receiving system for receiving and demodulating a radio carrier modulated by a composite image signal including a periodically recurrent synchronizing component representing a fixed percentage of radio carrier modulation, an automatic gain control system comprising in combination an amplitude discriminatory wave communicating circuit active to pass only those portions of applied waves established between an upper and lower datum amplitude level, means applying the demodulated composite signal to the input of said amplitude discriminatory wave communicating system, the amplitude of the composite signal so applied being nominally adjusted relative to said amplitude discriminatory circuit datum levels such that for reception of a radio carrier having a signal strength in excess of a given value, the peak of demodulated synchronizing component is established above the lower datum amplitude level but below the upper datum amplitude level, an integrating network connected with the output of said amplitude discriminatory circuit for developing a voltage wave in accordance with signal energy communicated by said amplitude discriminatory circuit, a rectifier having at least an input terminal and an output terminal, a connection from said integrating network to said rectifier input terminal for applying thereto the voltage wave developed by said integrating network, a connection from said rectifier output terminal to a load circuit for developing a unidirectional control potential in accordance with the peak amplitude of said integrating network voltage wave, and means connected with said load circuit for controlling the gain of said receiver in accordance with the correcting control potential developed in said load circuit.

2,637,774

KEYED NOISE-CLIPPING CIRCUIT

Jack Avins, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 15, 1950, Serial No. 200,904
3 Claims. (Cl. 178—7.5)



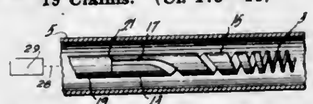
3. In a television receiver adapted to receive television signals having a recurrent synchronizing pulse component and comprising a video amplifier having an output terminal, a keyed noise clipper comprising: a normally non-conductive unilateral conduction device having an anode, a cathode, and a control electrode, a point of reference potential, a capacitor connected between the cathode of said unilateral conduction device and said point of reference potential, a direct current path including a resistance connected between the cathode of said unilateral conduction device and said point of reference potential, means connecting the output terminal of said video amplifier to the control electrode of said unilateral conduction device so as to apply to said control electrode television signals whose recurrent synchronizing pulse component extends in a positive direction, a rectifier having an anode and a cathode, a resistor connected between the output terminal of said video amplifier and the anode of said rectifier, a connection between the cathode of said rectifier and the cathode of said unilateral conduction device, and means to apply to the anode of said unilateral conduction device keying pulses synchronous with the recurrent pulse component of the television signals to render conductive said normally non-conductive unidirectional conduction device during the occurrence of said keying pulses, said keying pulses having a positive polarity with respect to said point of reference potential.

2,637,775

COUPLING OF A HELICAL CONDUCTOR TO A WAVE GUIDE

Frederik C. F. O. Lund, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 16, 1948, Serial No. 15,128
19 Claims. (Cl. 178—44)



1. In a radio frequency system including a helix and transmission means such as a coaxial line or a waveguide including an enclosure through which radio energy is transmitted, a device for transferring energy between said helix and said transmission means, including a body of metallic material comprising a tubular portion near one end of said helix with its axis coincident with an extension of the axis of said helix, and a metallic transition section connected between said helix and said tubular portion, said transition section comprising a generally helical portion which increases smoothly in pitch from that of said helix to infinity at said tubular portion and the solid portion of which increases smoothly in width from that of said helix to merge substantially into the perimeter of said tubular portion.

2,637,776

SEALED WAVE GUIDE WINDOW

Robert C. Edson, Livingston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 20, 1948, Serial No. 22,195
5 Claims. (Cl. 178—44)



1. In combination, a pressurized hollow pipe wave guide of constant characteristic impedance, an electro-magnetic window comprising a sheet of low-loss dielectric material therein for permitting the passage of microwaves and sealing said guide, said window being inclined at a critical angle such that its projection on a wall of said guide is equal to

$$\frac{n\lambda_g}{4}$$

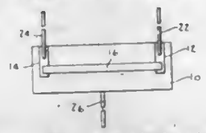
where λ_g is the wavelength in the guide and n is an even integer, whereby reflections from elemental areas of said window mutually cancel to render said window substantially reflectionless.

2,637,777

ELECTRICAL NETWORK HAVING DISTRIBUTED CAPACITANCE

Jack S. Kilby and Alfred S. Khouri, Milwaukee, Wis., assignors to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware

Application February 27, 1950, Serial No. 146,592
1 Claim. (Cl. 178—44)



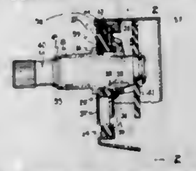
A small electrical network having resistance and distributed capacitance comprising a very small, flat, high dielectric constant ceramic base plate, a pair of spaced, relatively small conductive areas bonded to one face of said plate at opposite ends thereof, a pair of leads connected to said conductive areas, a relatively large area fixed resistor applied in the form of paint containing carbon to said face of said plate and extending from one to the other of said conductive areas, a conductive plate applied to the other face of said base plate and in juxtaposition with said resistor, said plate being shorter than the distance between said conductive areas so as not to establish any appreciable capacitance coupling between said plate and said areas, and a single lead connected to said conductive plate whereby said conductive plate and said resistor form a capacitor using said base plate as the dielectric thereof.

2,637,778

TONE COMPENSATED VOLUME CONTROL

George T. Kodama, Dunstable, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

Application October 20, 1950, Serial No. 191,108
10 Claims. (Cl. 178—44)



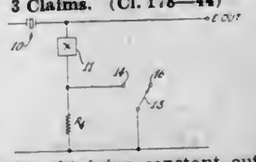
4. In a tone-compensating volume control unit for supplying any portion of an incoming signal and automatically compensating the supplied portion against the variation in the tonal emphasis of the human ear with respect to intensity; a disc of high dielectric constant alkaline earth titanate ceramic, an elongated wide electrically resistive coating on one surface of the disc, an elongated electrically conductive coating on the other surface of the disc and overlapping only a portion of the width of the resistive coating to establish a corresponding distributed capacitance, a movable contact top held for selectable engagement with limited portions of an elongated section of the resistive coating spaced from the overlapped portion to insert resistive connections between the tapped width of the resistive coating and the distributed capacitance, and a pair of terminals connected to the respective ends of the resistive coating, one of said terminals being also connected to the conductive coating.

2,637,779

CRYSTAL FILTER CIRCUIT

Robert L. Craiglow, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application November 13, 1950, Serial No. 195,319
3 Claims. (Cl. 178—44)

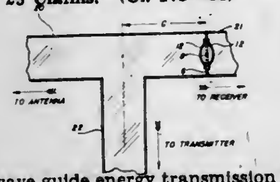


1. Means for obtaining constant output from a crystal filter in two band-width positions comprising, a load having reactive means and a resistor connected in series and receiving the filter output, switching means for connecting said resistor in and out of the circuit, and the reactive component having an impedance equal in magnitude to:

$$X=\sqrt{\frac{R_3^2R_4^2}{(R_3+R_4)^2-R_4^2}}$$

where R_4 is equal to the resistance of said resistor and R_3 is equal to the series resistance of the crystal.

2,637,780
PROTECTIVE ELECTRIC BREAKDOWN DEVICE
Andrew Longacre, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 6, 1943, Serial No. 485,933
25 Claims. (Cl. 178—44)



7. In a wave guide energy transmission system, a protective device which includes a conducting barrier positioned transversely of said guide and being formed with a centrally disposed elongated aperture, said aperture being dimensioned for resonance at the frequency of oscillations transmitted by said system, and being further dimensioned for incurring electrical discharge thereacross when the oscillations in said system exceed a predetermined energy level.

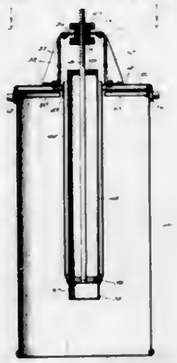
2,637,781
SERIES REACTANCE TRANSFORMER
John I. Bohnert, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 14, 1945, Serial No. 616,412
7 Claims. (Cl. 178—44)



3. A broad banding transformer for use in transmission line systems comprising an open ended transmission line section of over-all length substantially equal to an integral number of half-wave lengths of energy therein at a predetermined frequency positioned within said transmission line, said section being formed to be capacitively reactive at one end thereof and inductively reactive at the other end thereof.

2,637,782
RESONANT CAVITY FILTER
Henry Magnuski, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application November 28, 1947, Serial No. 788,397
3 Claims. (Cl. 178—44)

2. A resonant cavity filter adapted to be inserted in a coaxial line for selecting signals of a particular frequency transmitted along said line, said filter including in combination, a cylindrical conducting can having conducting closures at the ends thereof, one of said closures having an opening in the center thereof, a central conductor structure extending in said can having a first portion secured in said opening in said one closure and a second end portion spaced from said other closure, and coupling means secured to said can on opposite sides thereof adjacent said one closure, said coupling means including an outer cylindrical conductor connected to said can and an inner conductor insulated from said can for connection to the conductors of the coaxial line, each of said coupling means including a U-shaped coupling loop connected between said outer and inner conductors and extending into said can toward said central conductor structure, said loops being made of flat conducting material with the



flat arms thereof extending parallel to each other and being relatively closely spaced so that a relatively large capacity is provided thereby, said loops being constructed to have impedances substantially equal to that of said coaxial line within the range of frequencies of the filter.

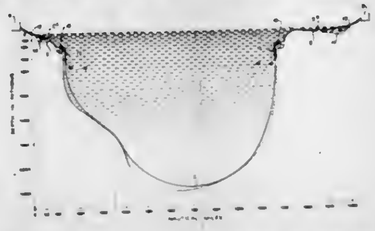
2,637,783
COMMUNICATION TRANSMISSION LINE CONDUCTOR
Lennart G. Erickson, Hillsborough, and Kurt E. Appert, Atherton Heights, Calif., assignors to Lenkurt Electric Co., Inc., San Carlos, Calif., a corporation of Delaware
Application January 2, 1951, Serial No. 203,985
5 Claims. (Cl. 178—45)



1. A conductor for use in communication transmission lines comprising a core of relatively low conductivity and metal of relatively high conductivity disposed about said core and connected thereto by a fused bond, a substantial portion of said metal being, at all points along said conductor, lumped on one side of said core in the form of a continuous helix the turns whereof are sufficiently separated so that a portion of the electrical energy follows the helical path.

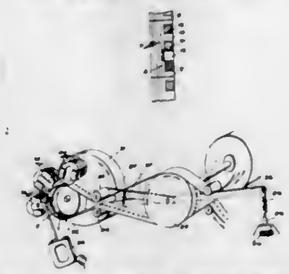
2,637,784
MEANS FOR INCREASING THE TELEGRAPH SIGNALING SPEED OF SUBMARINE TELEGRAPH CABLES
Harold F. Wilder, Wyckoff, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 229,146
12 Claims. (Cl. 178—63)

1. In a submarine cable system in which a nonloaded, non-coaxial telegraph submarine cable in the ocean principally lies in deep water that shields the greater length of the cable from electrical disturbance present at the surface of the water, and in which the maximum frequencies of the singles reversals and doubles reversals of the cable signals are limited by the disturbance induced in a portion of the cable lying on the bed of ocean in an area of relatively shallow water of insufficient depth to shield the cable from said disturbance; means for increasing said maximum signalling frequencies and thereby increase the signalling speed of the cable, comprising submerged apparatus enclosed in a waterproof container and in electrical circuit with a signalling conductor of the cable, said apparatus being positioned at a place on the bed of the ocean prior to said area of shallow water, said appa-



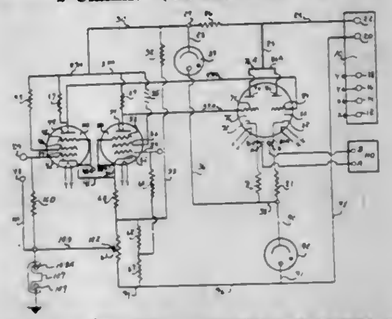
ratus including means responsive to the signals received over the deep sea portion of the cable, means for increasing the quantitative ratio of the magnitude of said singles reversals to the magnitude of said doubles reversals of the received signals and means for amplifying said signals to a value at which the power level thereof including the singles reversals will cause the signals to override the disturbance induced in the portion of the cable in said shallow water area at said increased signalling speed, and means for transmitting said amplified signals over said portion of the cable.

2,637,785
MAGNETIC SOUND-RECORDING APPARATUS
André Marie Bernard Charlin, Montrouge, France, assignor to Products and Licensing Corporation, New York, N. Y., a corporation of Delaware
Application October 16, 1948, Serial No. 54,953
In France November 12, 1947
15 Claims. (Cl. 179—100.2)



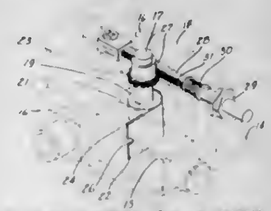
1. Film for magnetic sound-recording comprising a tape, a row of small-width, axially disposed perforations in said tape and two tracks covered with a sound-recording magnetic layer on either side of said row of perforations on one face of the tape, a layer of insulating material on the other face of said tape, and a plurality of indicia axially disposed along said tape and engraved into said layer.

2,637,786
BRIDGE AMPLIFIER CIRCUIT
Robert W. Bordewieck, Southboro, Mass., assignor to Moore Electronic Laboratories, Incorporated, Worcester, Mass., a corporation of Massachusetts
Application June 22, 1950, Serial No. 169,724
2 Claims. (Cl. 179—171)



1. A bridge amplifier comprising a source of electrical energy, a pair of amplifier tubes each having at least a plate, a cathode, and a control grid, a pair of cathode follower output tubes each having at least a plate, a cathode, and a control grid, and a voltage regulator tube, the said amplifier tube plates being connected through separate plate resistors to the positive terminal of said source of electrical energy, the said amplifier tube cathodes being connected together through a common self-biasing network to the negative terminal of said source of electrical energy, the cathode follower tube plates being connected to the positive terminal of said source of electrical energy, the said cathode follower tube control grids being connected separately to the plates of the said amplifier tubes, the cathode follower tube cathodes being connected through separate cathode resistors to the anode of the said voltage regulator tube, and the cathode of the said voltage regulator tube being connected to the negative terminal of the said source of electrical energy, the amplifier output being taken between the cathodes of the said cathode follower tubes, the said voltage regulator tube and the said cathode resistors being effective in combination to provide the amplifier with very low impedance output.

2,637,787
TRANSMISSION LINE SWITCH
George W. Price, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application December 2, 1949, Serial No. 130,662
4 Claims. (Cl. 200—6)



1. A two-way switch for a wave guide T-section having an antenna leg, a receiver leg,

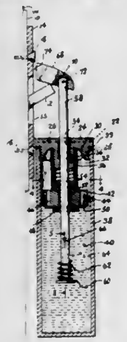
and a transmitter leg comprising, a base plate connected to said T-section, an upright shaft pivotably supported on said base plate adjacent the junction of the T-section between the receiver and transmitter legs, a flexible shorting member connected to the periphery of said shaft and both ends extending tangentially therefrom, transverse slots formed in the wave guide legs which are adjacent the shaft, the ends of said shorting member received in said slots, driven means on said shaft, and driving means connected to said driven means for rotating said shaft.

2,637,788

TIME-DELAY ATTACHMENT FOR WALL SWITCHES

Clement H. Bracken, Pacoima, Calif.

Application April 15, 1952, Serial No. 282,438
6 Claims. (Cl. 200—34)



1. In a time delay attachment for wall switches of the toggle type, a cylinder having a quantity of pressure fluid therein; a piston working in the cylinder, said fluid and piston being relatively arranged to slow movement of the piston in one direction within the cylinder; a shaft slidably mounted in one end of the cylinder, said shaft having one end extending into the cylinder and the piston having a slidable mounting on said end of the shaft; means on the shaft engageable by the piston, after slow movement of the piston in said direction longitudinally of the shaft over a predetermined distance, for effecting joint, slow movement of the shaft and piston; a spring engaged between one end of the cylinder and piston, said spring being tensioned to urge the piston in said direction; and means on the shaft adapted to engage and trip the handle of a wall switch after said slow movement of the shaft over a predetermined distance.

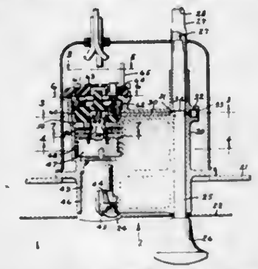
2,637,789

SWITCH

Robert M. Critchfield and John W. Lawson, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 28, 1947, Serial No. 737,968
9 Claims. (Cl. 200—44)

5. An ignition switch having a rotary contact movable to "off" and "on" positions; an axially shiftable member having a slot; latch provisions provided by a stationary part and the shiftable member; a compression spring between the shiftable member and the contact; a torsion spring having one end anchored and having the other end anchored to the shiftable member to resist turning of the movable contact to "on" position and operable when released to turn the contact to "off" position; a lock cylinder and a key therefore, said key extending through the cylinder a sufficient length to extend into the slot of the shiftable member and also to move axially the shiftable member to compress the springs so



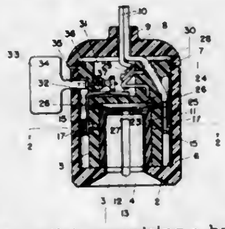
that upon turning of the key a predetermined angular movement the compressed spring will snap the latch provision of the shiftable member into engagement with the latch provisions of the stationary part to hold the movable contact in "on" position against the action of the torsion spring; and a spring pressed member for yieldingly holding the key within the cylinder and maintaining the latch provision effective.

2,637,790

ELECTRIC OUTLET SOCKET

Charles E. Woodside, Spokane, and Wilbur R. Smith, Colfax, Wash., and Albert L. Woodside, Butte, Mont., and Zenas A. Armstrong, Spokane, Wash.

Original application October 23, 1948, Serial No. 56,072. Divided and this application November 20, 1950, Serial No. 196,578
2 Claims. (Cl. 200—51.13)



1. A power outlet comprising a body of insulation formed with a socket open at its lower end, contacts carried by the body at opposite sides of the socket and having portions exposed through side openings in the wall of the socket, a sleeve in said socket rotatable therein and being open at its lower end and near its upper end formed with side openings movable into and out of position to register with the side openings of the socket by turning movement of the sleeve in the socket, a shell removably mounted about the body and having an inwardly projecting annular flange about its lower end overlapping walls of the socket and the sleeve and rotatably holding the sleeve in the socket, said body having its upper portion formed with a pocket located above the socket and open at its upper end, a stationary contact in said pocket adapted to have a power wire connected thereto, a movable contact strip

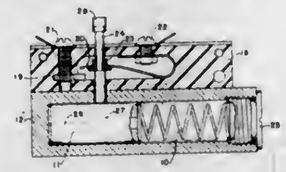
leading from one contact of the body into the pocket and overlapped by the stationary contact and normally engaging the stationary contact, and the other contact carried by the body being adapted to have a power wire attached to it.

2,637,791

INERTIA SWITCH

Stanley Bieler, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application July 7, 1950, Serial No. 172,581
6 Claims. (Cl. 200—52)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an inertia switch of the character described, a cylinder, a piston disposed in said cylinder and movable relatively with respect thereto from an initial position at one end of said cylinder to a second position toward the other end of said cylinder, a coil spring compressed between said piston and said other end of said cylinder, and a switch unit disposed at one side of said cylinder; said unit comprising a base of insulating material fixed to said cylinder, a switch contact fixed in said base, and a spring contact supported by said base and movable into and out of engagement with said fixed contact, said spring-contact being provided with a pin one end of which extends loosely through said base and through the adjacent cylinder wall for engagement with the cylindrical surface of said piston to hold said spring-contact disengaged from said fixed contact, the disposition of said pin longitudinally of said cylinder being such that with said piston in said second position thereof said pin is released by said piston to permit engagement of said spring-contact with said fixed contact, said piston being provided with a passage of relatively small cross-sectional area and extending from one end to the other end of said piston to effect a dash-pot action against a relatively rapid movement of said piston from said initial position to said second position thereof, the other end of said pin protruding from said base to permit withdrawal of said pin out of said cylinder.

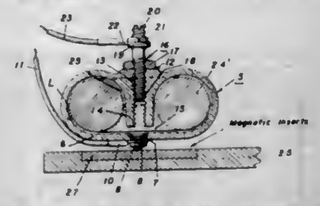
2,637,792

MERCURY INTERRUPTER

Walton W. Cushman, Webb City, Mo.

Application March 21, 1952, Serial No. 277,891
3 Claims. (Cl. 200—112)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An interrupter comprising a casing of electrical insulating material which is arranged horizontally in use, the casing having a side wall and top and bottom substantially horizontal walls, a depending boss secured centrally to said top wall of the casing and having a bottom end terminating near and spaced above said bottom wall, said depending boss having a substantially vertical bore extending therethrough and opening through the bottom end of the boss and through said top wall of the casing, the side, top and bottom walls of the casing forming with the depending boss a substantially annular chamber surrounding the depending boss, a substantially annular body of magnetically attractable material inclosed within said annular chamber and occupying the major portion of the chamber and having a vertical thickness only slightly less than the vertical height of the chamber between said top and bottom walls, whereby the annular body is shiftable vertically within the chamber a slight distance only, there being a quantity of mercury within the chamber and partly filling the same,



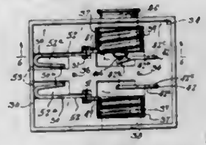
said annular body floating upon the mercury, a first electrical terminal secured to said bottom wall of the casing and arranged in electrical contact with the mercury, a second electrical terminal engaging within the bore of said boss and being adjustable vertically therein and having its lower end positioned near the level of the mercury within the chamber, the mercury entering the lower end of the bore, and movable magnetic means arranged below the casing for magnetically attracting the annular body and drawing the same downwardly against said bottom wall and thereby causing the level of the mercury to rise in the bore of the boss and electrically contact said second electrical terminal.

2,637,793

SAFETY ELECTRIC FUSE CONNECTOR

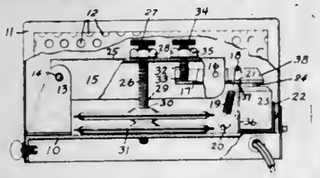
Walter Korecki, Brooklyn, N. Y.

Application April 24, 1951, Serial No. 222,717
6 Claims. (Cl. 200—115.5)



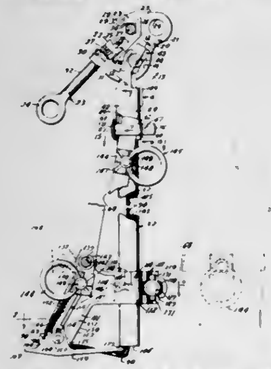
1. A double fused member for screw-in type fuses comprising a body of insulation material having a removable wall, cavities within said body for fuses, a circular threaded metallic shell positioned within each of said cavities, said shell including a laterally extending lug, means on said wall retaining said shells in a fixed position within said cavities, said retaining means comprising projections depending from said wall into said cavities, inlet strips having one of their ends projected into said cavities to make electrical contact with said fuses and having their other ends projected from one end of said body to have a source of electric current connected thereto, and outlet strips engaging the lugs of said shells and leading therefrom to be engaged by the spaced prongs of the inserted plug of an electric appliance, said body having holes extending through the sides of the main body in axial alignment with said shells to threadedly receive screw-in type fuses extended into the body through said holes in the sides of the body.

2,637,794
TEMPERATURE ALARM SWITCH
James T. Grotenhouse, Orange City, Iowa
Application May 28, 1951, Serial No. 228,689
1 Claim. (Cl. 200—140)



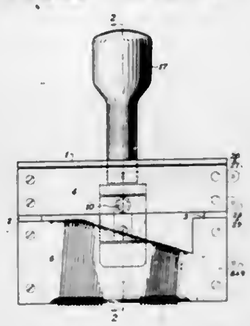
A temperature alarm switch comprising an expansible temperature responsive member, a pivoted lever, a vertically positioned lengthened stud threadably engaged with said lever, the lower terminal of said stud being adapted to engage said temperature responsive member at a pre-determined temperature, and whereby adjustable movement of said stud will correspondingly vary said engagement, a micro-switch, a further lever pivoted to said lever for operating said micro-switch, said micro-switch providing means for actuating an alarm circuit and being normally in closed position, said micro-switch including an operating button, one end of said further lever being adapted to engage said button, a flange member upon which said further lever fulcrums incidental upon movement of said levers, means for adjustably positioning said further lever to maintain said switch button in switch opening position at a predetermined interval including a further stud threadably engaging said pivoted lever, the lower terminal of said further stud being adapted to engage the other end of said further lever, a base member, a spring attached between said base member and said further lever, adjustable positioning of said further stud vertically causing said switch to be opened during said predetermined interval corresponding to the fulcruming interval between said further lever and said flange.

2,637,795
TEMPORARY LOAD SWITCH
David Charles Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application July 7, 1951, Serial No. 235,640
4 Claims. (Cl. 200—146)



1. A temporary load break switch comprising an insulating tube provided at its lower end with a metal fixture fixedly secured on said tube at a point spaced from its end, said fixture being provided on one side with a connector for attachment to a conductor and extending in the opposite direction and downwardly toward the end of the tube, a pivot pin carried by the downward end of said fixture, and said fixture presenting a downwardly ridged surface, and an ejector lever provided with a slot for pivotal and sliding movement on said pivot pin, said ejector lever presenting an upwardly grooved surface opposite said ridged surface for clamping the end of a cable, and said ejector lever extending to a point adjacent the open lower end of said tube and having a laterally projecting arm engaging above said cable, spring means engaging said ejector lever on its side opposite to the tube and tensioning said ejector lever so that it its end adjacent said tube tends to pull the cable out of said tube, and said spring also urging said ejector lever to clamp the end of said cable, a second fixture carried by the upper end of said tube, said second fixture comprising a tubular metal member secured to said tube, and having a flat arcuate extension projecting laterally, said arcuate extension having a pair of parallel walls supporting a pintle member at the center of its arc, and said pintle pivotally supporting a radially extending lever having an arcuate clamping extension projecting above the end of said tube, and having an outwardly projecting actuating end curving upwardly, a compression spring in said arcuate extension urging said lever into clamping engagement with the side wall of said upper fixture, and a cable in said tube, having its upper end clamped against said side wall by said lever and its lower end subjected to tension by said ejector lever.

2,637,796
ELECTRICAL CONTROL DEVICE FOR SCALE-MODEL RAILROADS
William Sibley Pike, Jr., Metairie, La.
Application January 15, 1952, Serial No. 266,571
4 Claims. (Cl. 201—48)



1. A reversing rheostat which permits the circuit in which it is used to be broken and its polarity reversed without changing the resistance value, the device comprising a frame, appropriate electrical resistance suitably arranged and mounted on the said frame, a center assembly pivotally mounted on the said frame and provided with a control lever and with contacts arranged so that movement of the assembly on its pivotal axis by means of the said control lever introduces continuously variable resistance into the circuit in which the device is used, the said control lever being mounted in the said center assembly for rotation about its longitudinal axis independently of the pivotal movement of the said assembly, an electrical switch of suitable design mounted on the said center assembly and attached to the said control lever in such a way as to be operated by rotation of the said control lever about its longitudinal axis, and contacts and terminals attached and arranged so that rotation of the said control lever about its longitudinal axis first breaks the said circuit and then re-establishes it but with reverse polarity.

2,637,797
ELECTRICAL HEATING ELEMENT
Peter Schenk, South Ozone Park, N. Y.
Application September 27, 1951, Serial No. 248,548
6 Claims. (Cl. 201—67)



1. The method of making a heating element comprising, the steps of surrounding a filament with a glass tube, encasing the glass tube within a metal tube, applying travelling heat longitudinally along the metal tube to heat the same and thereby melt the glass tube within said metal tube, and applying longitudinal pressure to the glass tube during application of the heat so that as the glass tube melts the entire interior of the metal tube is filled with molten glass encasing the filament.

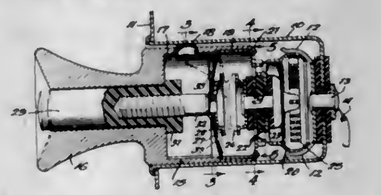
2,637,798
APPARATUS FOR WELDING A TERMINAL CLIP TO A WIRE
James S. Burge, Floyd J. Foust, Willard C. Shaw, and Warren M. Rider, Anderson, and Hilton J. McKee, Middletown, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application July 29, 1946, Serial No. 686,964, now Patent No. 2,596,396, dated May 13, 1952. Divided and this application May 24, 1950, Serial No. 163,962
2 Claims. (Cl. 219—4)

1. A machine for use in the manufacture of electric condensers having an insulated lead extending from an enclosing can, said machine comprising a conveyor having workholders, each retaining a condenser, an electric welder, a solenoid for controlling operation of the electric welder at a welding station for welding to the condenser leads a terminal clip previously assembled with the lead, means for feeling a condenser in the workholder at the welding station, a current source, a circuit for effecting connection of the solenoid with the current source and including two switches in series, one being under control by the feeler and remaining closed if a condenser is present in said workholder and a mechanism



for causing operation of said feeler means and for causing the closing of the other switch to effect a cycle of welder operation if a condenser is present and then for causing operation of the conveyor.

2,637,799
PLUG TYPE LIGHTER
James E. Wood, Chicago, Ill., assignor to Santay Corporation, Chicago, Ill., a corporation of Illinois
Application September 8, 1950, Serial No. 183,737
2 Claims. (Cl. 219—32)

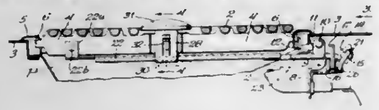


1. A plug type lighter comprising a hollow body, an annular contact member carried by the body at one end in insulated relation to the body, a heater element in the contact member secured at one end to the contact member, a contact post centrally carried by the body at said one end in insulated relation thereto and connected to the other end of the heater element, a bowed bimetallic thermostat within and extending transversely across the body between the ends thereof and having a contact portion thereon to engage the post, the thermostat normally being bowed away from the post, and a plunger formed of light conducting material slidable in the other end of the body and engageable with the thermostat there being openings around the post and the thermostat through which light can pass from the heating element to the plunger.

2,637,800
INDICATOR SWITCH MECHANISM FOR ELECTRIC RANGES AND THE LIKE
Kemper M. Hammell, Harrisburg, Pa., assignor to General Electric Company, a corporation of New York
Application October 31, 1950, Serial No. 193,258
5 Claims. (Cl. 219—37)

4. In an electric range having a heat coil supported on a structure carried by a hinge structure fixed to the range for pivotal movement into angular relation with said range, a switch of the mercury in glass type, means for pivotally mounting said switch member on said hinge structure,

said switch member being rotatable between open and closed circuit positions, cam means for rotating said switch member, a lever pivotally carried by said heat coil support beneath said heat coil and extending into operative association with said cam means to rotate said switch member upon rotation of said lever, spring means normally biasing said lever to urge said switch mem-



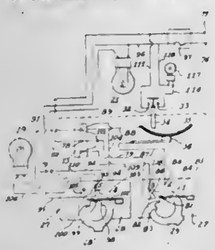
ber into open circuit position, and plunger means carried by said lever and projecting upwardly through the central portion of said heat coil to terminate in a cap disposed above the upper plane of said heat coil to be engaged and urged downwardly by a cooking utensil placed on said heat coil, thereby to rotate the lever in a direction moving the switch to closed circuit position.

2,637,801

DOOR LOCK AND LIGHT CONTROL SWITCH ARRANGEMENT

Walter Lewis Kelley, Avenal, Calif., and Gilbert Adamec, New York, N. Y.; said Adamec assignor to said Kelley

Application June 12, 1952, Serial No. 293,168
9 Claims. (Cl. 240—2)



1. A combined door lock and light control switch arrangement comprising a door lock having an operating member and a latch bolt adapted to be operated by the operating member, said door lock device adapted to be mounted in the edge of the door, a light control switch device comprising means for receiving the latch bolt of the door lock device, a selector switch adjustable to effect the lighting of either one or the other of two lights or both lights, other switch means connected with the selector switch and responsive to the operation of the latch bolt of the lock device within the switch control device and serving to turn on and off the lights.

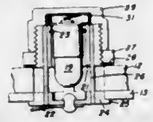
2,637,802

LAMP SOCKET FOR INSTRUMENT PANEL LIGHTING

John M. Roper, Washington, D. C., and Thomas O. Twist, Chevy Chase, Md.

Application February 4, 1949, Serial No. 74,641
8 Claims. (Cl. 240—8.16)
(Granted under Title 35, U. S. Code (1952), sec. 266)

3. In a plastic edge lighting system having a mounting plate and a plastic light-transmitting sheet mounted on and extending forwardly of said plate, a lamp socket comprising an outer conducting shell mounted in superposed relation with said plate, said shell mounted at least in part rearwardly of said sheet and extending forwardly therethrough, said shell having a portion thereof at least partially removed to permit the passage of light therethrough, an inner con-



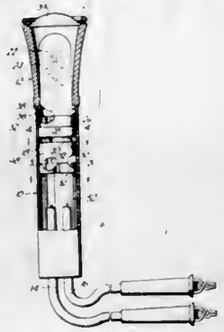
ducting shell having means for supporting a lamp therein, said inner shell having a portion thereof at least partially removed, said portions being substantially aligned with each other and with said sheet, a light-transmitting insulating member interposed between and affixed to said shells, and conducting cap means for enclosing the socket.

2,637,803

IGNITION TIMING LIGHT HAVING A REPLACEABLE LAMP

Karl Reifenberg, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois

Application August 4, 1951, Serial No. 240,376
1 Claim. (Cl. 240—11.4)



An ignition timing light comprising an elongated housing open at one end thereof, a plurality of circumferentially spaced ribs formed integrally with said housing extending inwardly from the wall of said housing and spaced from the open end of said housing, a single key integral with said housing extending along the inner wall of said housing from adjacent said ribs to adjacent said open end of the housing, a plug insertable in the open end of said housing and slidable thereinto until it engages said ribs, a pair of electrical contactors resiliently mounted on said plug and extending therefrom toward said open end of the housing, electrical leads connected to said electrical contactors and extending through the other end of said housing, a lamp inserted into the open end of said housing, said lamp comprising a glass bulb portion, a base portion and a pair of electrical contactors on the under side of said base extending therefrom, said plug and said lamp base each having a single keyway therein registering with the key in the housing to align the electrical contactors in the plug and on the lamp base, a cap enclosing the extended glass bulb portion of the lamp and adapted to be threaded into the

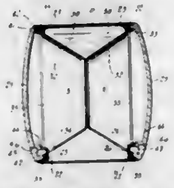
open end of said housing, and a lip on said cap extending within said housing and engaging the lamp base to force the sets of electrical contactors into operative engagement, said resiliently mounted pair of contactors in the plug accommodating the compression theretogether of the pairs of electrical contactors.

2,637,804

VEHICLE LAMP WITH LENS AND REFLECTOR MEANS

Jesse R. Hollins, Brooklyn, N. Y.

Application February 9, 1951, Serial No. 210,190
3 Claims. (Cl. 240—41.5)



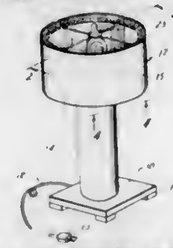
1. A vehicle lamp comprising, in combination, a substantially cylindrical casing having an open end, a radially extending flange within the casing adjacent such end, said flange having radially inwardly projecting ears apertured to receive lens holding fasteners, a substantially frusto-conical reflector receivable within said casing and having a peripheral rim seating on said flange, said rim and wall of the reflector having cut-outs alignable with said ears for locating said reflector in interlocked relation with the casing, and a lens fitting such casing end and having projections engageable with at least a portion of the wall surface defining the reflector cut-outs, said projections having apertures aligned with the ear apertures to receive lens fastening means.

2,637,805

LAMP SHADE CONSTRUCTION

William A. Jacobs, Flushing, N. Y.

Application June 17, 1950, Serial No. 168,700
1 Claim. (Cl. 240—108)



A lamp shade construction comprising a single piece of flexible sheet material curved into an integral shade body and having its ends joined together in abutting relationship to form a hollow cylinder, a plurality of closely circumferentially-spaced vertically-extending members fixed to the inner surface of the integral shade body, said vertically-extending members respectively having notches on their inner edges and adjacent their upper ends, an upper lamp shade ring disposed in said notches to serve as a support for the lamp shade, said vertically-extending members respectively further having notches in their lower ends spaced outwardly from their inner edges and extending in a direction normal to the notches in the upper ends and a bottom holding ring extending through the lower end notches to hold the vertically-extending members and the shade body against lateral displacement, said upper and lower rings being concealed from view by said shade body.

2,637,806

WHEEL SLIDE INDICATOR AND CONTROL MECHANISM FOR DIESEL AND ELECTRIC LOCOMOTIVES

William O. Martin, Fort Smith, Ark.

Application November 9, 1950, Serial No. 194,812
7 Claims. (Cl. 246—169)



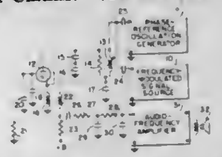
1. In combination with the air brake application pipe with air brakes and a magnet valve in the air brake application pipe and the powered wheel axles of the locomotive, control mechanism associated with the journal of each powered wheel and comprising a drive shaft operatively connected with the journal of a power wheel of the locomotive; a driven shaft operatively associated with said drive shaft to rotate at a speed correlated to the speed of the powered wheel journal; a governor controlled electric switch associated with an end of said driven shaft and operable when the wheel journal rotates at or above a preselected speed; and an electric circuit provided with a master switch, electrically connected with said magnet valve and said governor controlled switch with an indication light effective when the master switch is closed, whereby said magnet valve is affected when the governor switch has been actuated, pressure in said air application pipe reduced and air brake application made when wheel slide due to nonrotation of the powered wheel journal occurs.

2,637,807

SUPERREGENERATIVE SYSTEM FOR RECEIVING ANGULAR - VELOCITY - MODULATED WAVE SIGNALS

Donald Richman, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application June 25, 1948, Serial No. 35,244
21 Claims. (Cl. 250—20)



1. A system for receiving an angular-velocity-modulated wave signal having a given mean frequency comprising: an oscillation generator for supplying a continuous-phase reference signal having a frequency different from that of said mean frequency; a superregenerative wave-signal phase detector for utilizing said angular-velocity-modulated signal; and means for applying said phase-reference signal to said detector at least

during a selected interval of each quench cycle of said detector; said detector being center-tuned for signals of said mean frequency and being side-tuned for said phase-reference signal and responsive to both said last-mentioned signals during said selected intervals of said quench cycles to effect therein a phase comparison of said angular-velocity-modulated signal and said phase-reference signal to develop an output signal having characteristic variations representing the modulation components of said angular-velocity-modulated signal; said system including means responsive to the phase relations of said angular-velocity-modulated signal and said phase-reference signal during said intervals of phase comparison for controlling an operating characteristic of said system to tend to maintain a substantially fixed apparent phase relationship between said angular-velocity-modulated signal and said phase-reference signal.

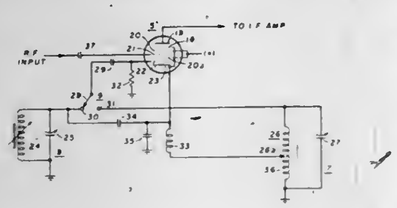
2,637,808

OSCILLATOR FOR AM-FM RECEIVERS

Malcolm P. Herrick, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application November 16, 1949, Serial No. 127,609

7 Claims. (Cl. 250—20)



1. In a superheterodyne receiver, an electron discharge device including at least a pair of control electrodes, an anode and a cathode; a source of radio frequency signal connected to one of said control electrodes; a first oscillator circuit including said discharge device for operation over a first range of frequencies; a second oscillator circuit including said discharge device for operation over a second range of frequencies; means for connecting one end of one or the other of said oscillator circuits to the other of said control electrodes; said oscillator circuits having parallel returns to said cathode, one of said returns including a choke coil of such value that it constitutes a choke in the first range of frequencies but has substantially no impedance in the second range of frequencies; and means for returning the other ends of said oscillator circuits to said anode.

2,637,809

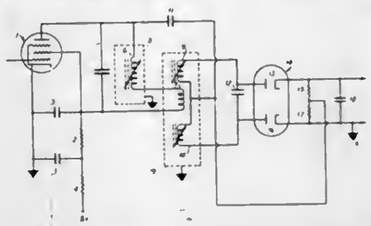
COUPLING FOR FREQUENCY MODULATION DISCRIMINATORS

Joseph C. Spindler, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois

Application November 1, 1947, Serial No. 783,567

3 Claims. (Cl. 250—20)

1. In a frequency-modulation receiver including an intermediate frequency amplifier, a frequency discriminator comprising: a pair of electron discharge devices each having first and second electrodes; a pair of impedance elements series connected between said first electrodes; first and second series connected inductance coils inductively isolated from each other and coupled to said amplifier to form a component of a tuned output circuit therefor; an adjustable element for varying the inductive value of said first inductance coil to tune said output circuit to the selected intermediate frequency of said receiver; a winding comprising a further pair of series connected inductance coils connected between said



second electrodes and individually inductively coupled to said second inductance coil; a connection extending from the junction of said further pair of said inductance coils to the junction of said impedances; and separate adjustable elements for individually varying the respective inductances of said last-mentioned inductance coils to values having a relation effective to establish the junction of the latter coils at a selected electrical point on said winding and having a combined value effective to tune said winding to a predetermined frequency.

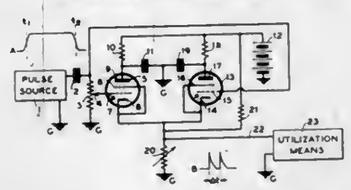
2,637,810

ELECTRONIC PULSE GENERATOR

Nathan A. Moerman, Jackson Heights, N. Y., assignor to Potter Instrument Co., Inc., Great Neck, N. Y., a corporation of New York

Application November 12, 1948, Serial No. 59,621

2 Claims. (Cl. 250—27)



1. In a device for generating distinctly spaced pulses in response to overlapping or concurrent pulses, the combination of, at least two gaseous discharge tubes each including at least a plate, a grid and a cathode, a capacitor connected in shunt with each of said plates, a resistor connected in series with each of said plates, a source of direct current voltage connected to said resistors for charging said capacitors at a predetermined rate through said resistors, an impedance common to at least two of said cathodes to provide a bias to prevent the firing of either of said tubes during the firing of the other, and circuits for connecting said grids to at least two different sources of substantially concurrent pulses for firing said tubes at different instants to provide spaced pulses across the last said impedance.

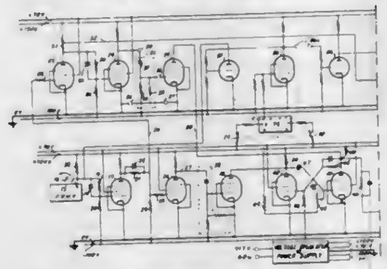
2,637,811

PULSE GENERATING SYSTEM

Philip E. Fox, Marlborough, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application January 18, 1949, Serial No. 71,502

11 Claims. (Cl. 250—27)



1. An electrical impulse producing system having a plurality of output terminals, a source of impulses occurring at a fundamental repetition frequency, impulse counting means comprising a cascade connected chain of triggers which is responsive to said source of impulses and acting to count a succession of impulses relative to said source of impulses, and coincidence mixing means adapted to be controlled by impulses arising from said source and said counting means for the production of impulses of predetermined equal widths and of different repetition frequencies at each of said plurality of output terminals.

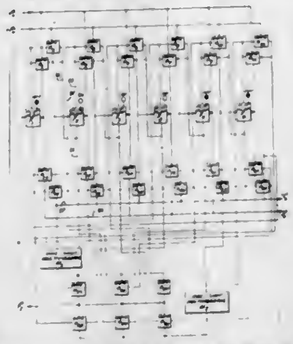
2,637,812

ELECTRONIC PULSE SPACER

Glenn E. Hagen, Lawndale, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application June 14, 1949, Serial No. 99,092

19 Claims. (Cl. 250—27)



2. An electronic pulse spacing circuit comprising a plurality of flip-flop circuits connected in a closed array, a first input line conveying non-uniformly spaced pulses to said flip-flop stages, first gating means connecting said first input line and said flip-flop stages for permitting each of said input pulses to be stored in one of said flip-flop stages, a second input line for introducing timing pulses from a clock source, a second gating means connecting said second input line and said flip-flop stages and connected to said second input line and to said flip-flop circuit for permitting each of said timing pulses to cancel the storage of one of said input pulses in a flip-flop circuit, an output line connected to said second input line and to said gating means and to said second gating means to pass out a pulse in synchronism with each cancellation of an input pulse by said timing pulse.

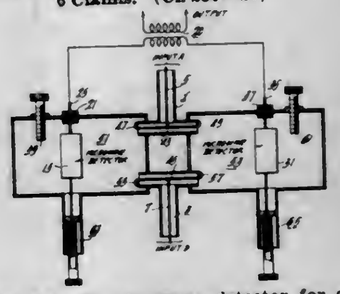
2,637,813

BALANCED MICROWAVE DETECTOR

Rene A. Braden, Hopewell, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Original application August 20, 1945, Serial No. 611,646, now Patent No. 2,550,524, dated April 24, 1951. Divided and this application December 20, 1950, Serial No. 201,785

6 Claims. (Cl. 250—27)



1. A balanced microwave detector for a pair of signal sources comprising a pair of cavity resonators, a pair of wave detecting means each disposed within one of said resonators, a first input signal source oppositely inductively coupled through both of said resonators to both of said detecting means for coupling signals thereto in phase opposition, a second input signal source inductively coupled in-phase through said resonators to both of said detecting means, and means for connecting said detecting means to a utilization circuit.

2,637,814

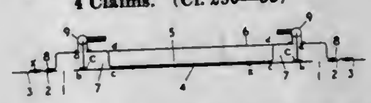
AERIAL SYSTEM

William Arthur Johnson, Farnborough, England, assignor to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application September 1, 1949, Serial No. 113,574

In Great Britain September 3, 1948

4 Claims. (Cl. 250—33)



1. An antenna system, comprising means constituting in effect a substantially plane conductive sheet having an annular slot therein, a conductive member secured against a face of the sheet, the said member having formed in it an annular channel with radially spaced cylindrical side walls and a bottom web, the member being disposed with the radially outer edge of the slot substantially congruent with the radially outer edge of the channel, the width of the slot as measured along a radius being less than the width of the channel as likewise measured and so the channel walls and the conductive sheet define a slotted cavity; and means to transfer

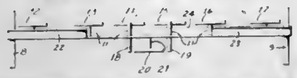
energy between the said cavity and an external instrumentality including a conductor extending into the cavity through a first wall thereof toward the opposite wall, the conductor being insulated from the first wall and connected to one side of a transmission line, and means connecting the other side of the transmission line to the first wall; the conductor within the cavity, a portion of the first wall, a portion of the wall toward which the conductor extends, the wall of the cavity that joins the two portions last aforesaid cooperating to form an inductive loop coupling with the space inside the cavity, the said first wall being the bottom web of said channel, the said opposite wall being a portion of the conductive sheet and the wall adjoining them being a side of the channel and a conductive plate secured to that end of the conductor in the cavity adjacent the conductive sheet and constituting with the juxtaposed portion of the conductive sheet a series-matching condenser.

2,637,815

COMBINATION LOCALIZER AND SWAMPING ANTENNA

John P. Shanklin, Cedar Rapids, Iowa, assignor to Collins Radio Co., Cedar Rapids, Iowa, a corporation of Iowa

Application March 31, 1950, Serial No. 153,163
6 Claims. (Cl. 250—33.57)



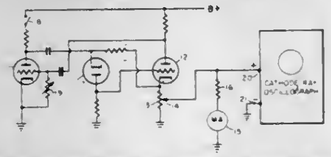
5. A combination antenna comprising, a supporting member, an electrically conducting vertical member mounted on said supporting member, a plurality of dipoles mounted longitudinally along one side of said vertical member and in axial alignment, a pair of transverse dipoles extending through said vertical member, and a rear dipole mounted to said vertical member parallel thereto and on the side opposite the plurality of dipoles.

2,637,816

SQUARE WAVE VOLTAGE CALIBRATOR

Arthur J. Talamini, Jr., Caldwell Township, Essex County, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware

Application June 23, 1949, Serial No. 100,923
1 Claim. (Cl. 250—36)



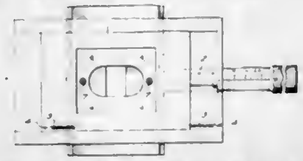
A voltage calibration circuit comprising two thermionic tubes connected as a free running multivibrator, a switch in the anode power supply circuit in the first of said tubes to activate and deactivate selectively oscillations of said multivibrator, the second of said tubes being connected to continue to conduct when said switch has deactivated said oscillations, a D. C. meter connected to the output of the second of said tubes, a variable time constant circuit in said multivibrator to adjust the duty cycle thereof, a rectifier connected in series between the anode of the first of said tubes and the grid of the second of said tubes to control the voltage feedback of each thereof and a potentiometer connected to the second of said tubes to vary the amplitude of the output of said multivibrator while maintaining the duty cycle thereof.

2,637,817

SEALED VARIABLE LENGTH CELL AND POSITIONER

Arthur Donald Herbert, New Brunswick, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application July 27, 1951, Serial No. 238,953
2 Claims. (Cl. 250—43.5)



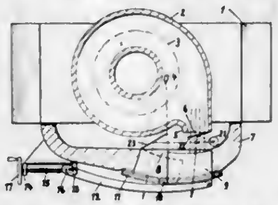
1. A cell capable of transmitting infrared light, composed of alkali metal halide plates at least one of which contains a wedge-shaped depression, said plates being so assembled that a sealed wedge-shaped cavity is formed; and communicating means with the apex and base of said wedge-shaped cavity to permit the introduction and removal of liquids from said cavity.

2,637,818

ELECTRON ACCELERATOR

Konrad Gund, Hans Berger, Max Martin Scheer, and Rudolf Schittenhelm, Erlangen, Germany

Application July 21, 1951, Serial No. 237,925
In Germany July 24, 1950
14 Claims. (Cl. 250—49.5)



1. Electron accelerator having a vessel in which the electrons describe a circular orbital equilibrium path comprising means forming within said vessel inside of said orbital path an X-ray target, means for deflecting the electrons from the orbital equilibrium path inwardly onto said target and alternatively outwardly thereof, means forming separate radiation exit windows, one exit window for electrons and another exit window for X-rays, and control means for selectively switching in either one of said electron deflection means to produce X-ray and electron radiation, respectively, for emergence through the respective exit window.

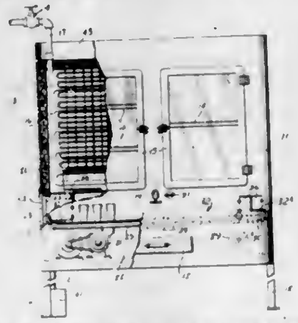
2,637,819

WATER DISPENSER

Jerry R. Mumma, Mineral Wells, Tex.

Application December 28, 1945, Serial No. 637,703
3 Claims. (Cl. 250—52)

3. In a liquid dispensing device, a cabinet including a bottom, front and rear walls arranged in parallel spaced relation and carried by said bottom, and a pair of side walls arranged in parallel spaced relation carried by said bottom and connecting said front and rear walls together, a horizontally disposed endless conveyor positioned within said cabinet and spaced above the cabinet bottom and mounted for movement in a horizontal plane, a vertical wall portion positioned exteriorly of and spaced from the cabinet front wall and extending from the cabinet bottom to and spaced above said conveyor, said conveyor including a pair of long courses interconnected by a pair of short courses for the support of articles thereon and having one of the long courses within the space between the cabinet front wall and said vertical wall portion and having the other of the long courses within the cabinet and along the cabinet rear wall, a first pair of doors arranged in vertical end to end relation positioned in the cabinet front wall above and spaced from said



conveyor adjacent one of the cabinet side walls and connected to the cabinet front wall for swinging movement inwardly of the latter wall, a second pair of doors arranged in vertical end to end relation positioned in the cabinet front wall above and spaced from said conveyor adjacent the other of the cabinet side walls and connected to the cabinet front wall for swinging movement outwardly of the latter wall, each of said short courses having one end within the cabinet and having the other end extending through the adjacent one of said pairs of doors, drive means within said cabinet and operatively connected to said conveyor for effecting the movement of the latter, manually actuable means arranged exteriorly of said cabinet and operatively connected to said drive means for intermittently actuating the latter, an ultra-violet means positioned within said cabinet and above said conveyor for emitting antiseptic radiation to the articles supported on said conveyor.

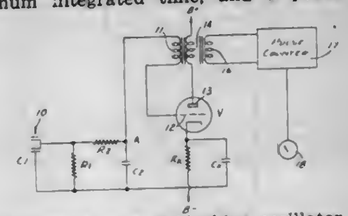
2,637,820

CURRENT INTEGRATOR

Ralph L. McCreary, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application March 3, 1950, Serial No. 147,408
4 Claims. (Cl. 250—83.3)

1. Means for measuring the rate of flow of positively charged particles comprising a collector-electrode having a virtual capacitance to ground with one plate of said collector-electrode connected in series with a pair of parallel resistors, and with the opposite end of one resistor connected to the control grid of a blocking oscillator and to a condenser, and with the time constant of the second resistor and the virtual capacitance being much greater than the maximum integrated time, and a pulse rate



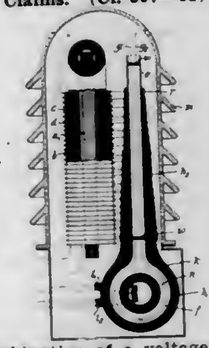
counter coupled to said blocking oscillator plate circuit.

2,637,821

COMBINED VOLTAGE AND CURRENT TRANSFORMER

August Meyerhans, Nussbaumen, near Baden, and Hans Hartmann, Baden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland

Application September 13, 1950, Serial No. 184,622
In Switzerland August 4, 1949
5 Claims. (Cl. 307—11)



1. The combination of a voltage transformer with a current transformer of the same phase, said combination comprising a voltage transformer with a two-limbed magnetic circuit, a high voltage primary winding including a plurality of individual coils on each limb of the magnetic circuit and serially connected in alternation from the grounded end to the high voltage end of said winding, thereby to provide an approximately uniformly increasing potential distribution from the grounded end to the high voltage end of said winding, and a low voltage secondary winding including sections upon each of said limbs; and a current transformer having an annular high-voltage winding in an insulating casing and having straight insulated leads, and an annular iron core threaded through said annular high voltage winding and carrying a secondary winding; the limbs of said voltage transformer and the leads of said current transformer being housed within an insulator.

2,637,822

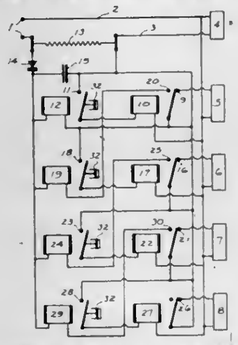
ELECTRIC LOAD LIMITER

Errol F. Kingsley, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.

Application July 29, 1950, Serial No. 176,618
14 Claims. (Cl. 307—35)

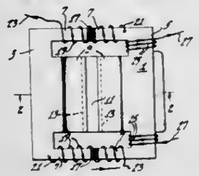
13. In combination with an electrical circuit including a plurality of auxiliary loads, normally

closed switch means in each of the auxiliary load circuits, a plurality of relay means, each relay means actuating one of the normally closed switch means, normally open switch means in the circuit of each relay means, a plurality of second relay means each actuating one of the normally open switch means, a normally closed switch means, a first relay means, a first normally open switch means and a second relay means comprising a unit, second normally open switch means in the circuit of each of the sec-



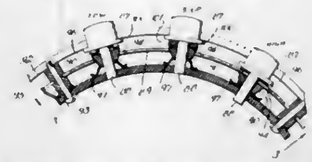
ond relay means succeeding the first in order, each of the second switch means being actuated by the second means of the next preceding unit, coupling means connecting the second relay means in series in the said electrical circuit, delay means on the second normally open switch means for delaying the closing thereof relative to the closing of the first normally open switch means of the next preceding unit, and delay means on the first normally open switch means of each unit for controlling the sequence of opening of said switch means.

2,637,823
THERMOMAGNETIC TRANSDUCER
Leslie J. Anderson, Moorestown, and Mones E. Hawley, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application December 30, 1949, Serial No. 136,102
17 Claims. (Cl. 310—4)



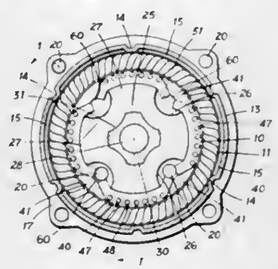
1. An electro-acoustical transducer for translating audio signals comprising a magnetic field structure including at least two elements, one of said elements being constituted of a thermomagnetic material which exhibits changes in temperature in response to sound pressure waves impinging thereon, means for heating said thermomagnetic element to substantially the Curie temperature thereof, means including said thermomagnetic element for varying the reluctance of said field structure in accordance with sound waves impinging upon said thermomagnetic element, and means to detect said reluctance variations.

2,637,824
FOOD MIXER POWER UNIT
Johannes B. Kessel, Chicago, Ill., assignor to Dormeyer Corporation, Chicago, Ill., a corporation of Illinois
Original application May 25, 1945, Serial No. 595,785. Divided and this application April 28, 1950, Serial No. 158,682
5 Claims. (Cl. 310—68)



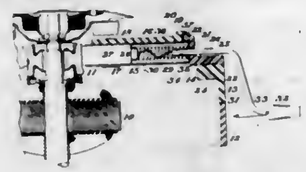
1. A power unit for a food mixer comprising a housing having a circular wall portion, a motor mounted in the housing, electrical connections for driving the motor at various speeds including a plurality of switches connected in parallel with each other and in series with the motor, a plurality of buttons for operating said switches extending through the housing, a curved bar spaced from and following the contour of the wall portion and having cammable surfaces adapted to be engaged by the buttons and longitudinally displaced upon actuation of any of said buttons, and means on said bar for locking the displacing button in its bar displacing position, and further means carried by each button for releasing said bar and thereby any previously displaced button.

2,637,825
DYNAMOELECTRIC MACHINE
Thomas W. Moore, Dayton, Ohio, assignor, by mesne assignments, to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application March 24, 1949, Serial No. 83,260
18 Claims. (Cl. 310—156)



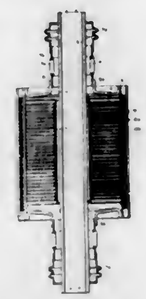
1. A rotor adapted for use in a dynamoelectric machine having a stator comprising a permanent magnet, pole extensions of magnetic material in contact with the poles of said magnet, means maintaining said pole extensions in circumferentially spaced relation with each other to form gaps defining paths of substantially higher reluctance than the reluctance of the air gap between said rotor and the stator in said machine, means defining air gaps extending axially through said rotor within the outer circumference thereof and radially inwardly of said high reluctance paths in continuous relation with the ends of adjacent said pole extensions, and keeper bars of magnetic material adapted to be removably received in said air gaps in flux by-passing relation with adjacent said pole extensions to complete the magnetic circuit within said rotor.

2,637,826
MOTOR
Warren A. Humphrey, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 9, 1951, Serial No. 250,508
4 Claims. (Cl. 310—247)



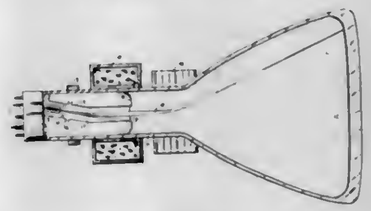
1. A commutator brush assembly comprising, a commutator brush proper, a pigtail conductor secured to one end thereof, an insulating sleeve extending from adjacent the free end of said pigtail inwardly toward said brush to a point removed from said brush so as to leave a portion of said pigtail uninsulated between said sleeve and brush and an eyelet surrounding the inner end of said sleeve, said eyelet being crimped inwardly from its opposite sides to deform said sleeve and pigtail in opposite directions to thereby secure said sleeve to said pigtail.

2,637,827
ALKALI-METAL RECTIFIER
John L. Boyer, Pittsburgh, and Willard S. Albert, Pitcairn, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1951, Serial No. 218,367
16 Claims. (Cl. 313—30)



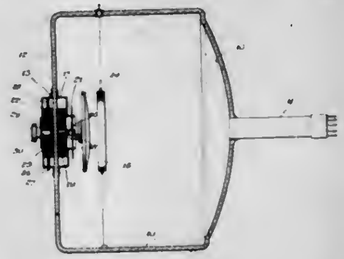
1. A vapor-electric device comprising an evacuated enclosure-means, an anode, a cathode, and a quantity of a discharge-metal within the device, said discharge-metal being selected from the group consisting of cesium, rubidium, and potassium; said cathode including a metal tube-portion constituting side-walls of said enclosure-means, said metal tube-portion of said cathode carrying interiorly extending cathode-fins in good thermal and electrical contact therewith; said anode including a metal tube-portion extending interiorly of said enclosure-means and inside of said finned portion of the cathode; said enclosure-means including an insulating seal-means between said cathode and said anode; means for heating the outside of the metal tube-portion of said cathode; and means for cooling the inside of the metal tube-portion of said anode.

2,637,828
ION-TRAP CATHODE-RAY TUBE
Kenneth A. Hoagland, Newark, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application November 25, 1949, Serial No. 129,260
9 Claims. (Cl. 313—82)



1. A magnetically focussed, magnetically deflected cathode-ray tube comprising a cathode; a control grid; a screen grid; a fluorescent screen; and a tubular anode, said tubular anode having an axial bend with the tubular portion on one side of said bend directed substantially at the center of said screen and the tubular portion on the other side of said bend aligned substantially coaxially with said cathode, control grid and screen grid.

2,637,829
PROJECTION TUBE WITH MOVABLE TARGET ELECTRODE
Victor Trad, Asbury Park, N. J.
Application March 15, 1952, Serial No. 276,756
6 Claims. (Cl. 313—92)



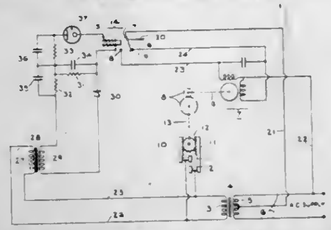
1. A television image projection tube comprising, a sealed envelope having a transparent front wall, a rear wall, an ion gun carried by the rear wall of the envelope so that its ion stream is directed toward the front wall, a light reflecting surface upon the rear wall, a faceplate to receive the ion stream, movably fastened to the envelope adjacent the front wall by means of a bracket carried upon the inner face of the front wall and means positioned on both sides of the front wall of the envelope whereby the position of the faceplate within the tube may be changed so as to focus and orient the image without disturbing the seal of the said tube.

2,637,830
TREATMENT OF ELECTRIC LAMP ENVELOPES
Arthur J. Sharkey, Danvers, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application February 28, 1949, Serial No. 78,854
5 Claims. (Cl. 313—174)



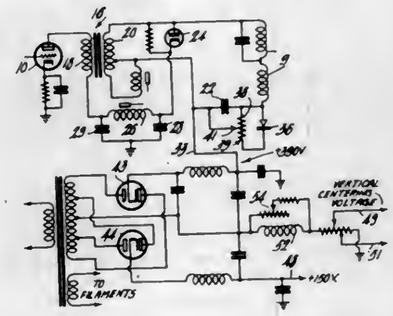
1. An electric gaseous discharge device comprising: a sealed, glass, light-transmitting envelope; a filling of inert gas at a pressure of a few millimeters in said envelope; a filling of mercury in said envelope; spaced electrodes contained within said envelope; a coating of an oxide of at least one of the alkaline earth metals on said electrodes; and a single coating on the inner wall of said envelope, said coating consisting essentially of between about .003 mg. to about .03 mg. per square inch of an oxide of antimony.

2,637,831
ELECTRICAL CONTROL SYSTEM
Iredell Eachus, Jr., Cynwyd, Pa., assignor to Macbeth Arc Lamp Co., Philadelphia, Pa., a corporation of Pennsylvania
Application September 9, 1949, Serial No. 114,819
7 Claims. (Cl. 314—64)



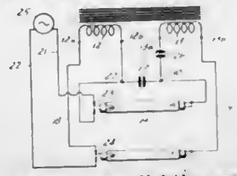
1. In a servo system for control of an adjustable device; means including a reversible motor for adjusting said device; a single controlling relay having a winding, a pair of spaced stationary contacts, and a movable contact biased toward one of the stationary contacts and movable toward the other stationary contact upon energization of said winding; reversing connections for said motor connected to the relay contacts for control of said motor by said relay; a single gas-discharge tube in circuit with the winding of said relay to control the same, said tube becoming conductive at a certain voltage level and becoming non-conductive at a certain lower voltage level; and means for applying to said tube a cyclically fluctuating unidirectional voltage whose amplitude varies in relation to said voltage levels according to the adjustment of said device, whereby the relative time percentages of conductivity and non-conductivity of said tube are varied according to the adjustment of said device, and said motor is controlled accordingly through the operation of said relay under control of said tube.

2,637,832
CENTERING CIRCUIT FOR CATHODE-RAY TUBES
Gordon F. Rogers, New Hyde Park, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 29, 1949, Serial No. 129,897
12 Claims. (Cl. 315—27)



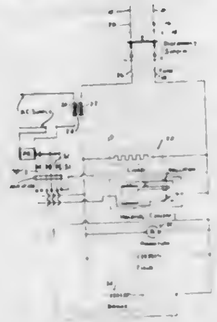
1. In combination, a cathode ray tube deflecting coil, a condenser, a source of periodic deflecting current, means including said condenser for coupling said source to said coil, a rectifier, a resistor connected in shunt with said rectifier, a connection from one terminal of said rectifier to one end of said coil, and a connection effectively from the other end of said coil to a point on said resistor.

2,637,833
LIGHTING SYSTEM AND APPARATUS
Frederick H. Skrotzki, Brooklyn, N. Y., assignor to National Inventions Corporation, a corporation of New Jersey
Application August 20, 1948, Serial No. 45,401
3 Claims. (Cl. 315—187)



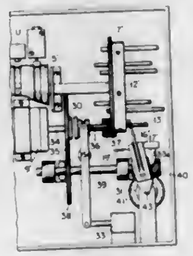
1. A fluorescent tube lighting system, comprising a close-coupled transformer having a primary winding adapted to be connected across a source of alternating current supply of predetermined frequency and a secondary winding, a positive column fluorescent gaseous discharge tube connected between one end of said primary and one end of said secondary windings, a second positive column fluorescent gaseous discharge tube connected between the other ends of said windings and placing said primary winding, said secondary winding and said two tubes in series connection, a by-pass condenser shunting one of said tubes, and a power-factor correcting condenser in series with both of said tubes.

2,637,834
PROTECTIVE DEVICE AND ELECTRICAL CIRCUIT
Serge Mignocchi, New York, N. Y., assignor to Serge Elevator Co., Inc., Bronx, N. Y.
Application July 27, 1950, Serial No. 176,123
6 Claims. (Cl. 318—368)



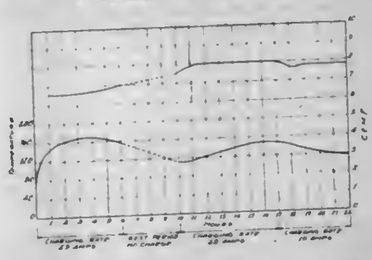
4. In a means for preventing the impression of a counter E. M. F. by a direct current motor operating an elevator and the like upon the opening of the circuit to the said motor whereby the electro-magnet of a brake will not be energized by said counter E. M. F. a direct current power line for said elevator motor, an electro-magnet for a brake means for said elevator, a circuit to said electro-magnet, a means for opening and closing the circuit to the electro-magnet, an alternating current supply circuit, a means for controlling said means for opening and closing the circuit to the electro-magnet and arranged in said alternating current supply circuit and a transformer coupling said alternating current supply circuit to said direct current supply line.

2,637,835
TIME CYCLE CONTROLLER
James R. Davidson, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application December 8, 1951, Serial No. 260,751
12 Claims. (Cl. 318—443)



1. In a timing arrangement, an output circuit, and means for completing said circuit to a source of current comprising a shaft, a driving motor for operating said shaft, a driving circuit for operating said motor, index mechanism including a member driven in synchronism with said shaft, adjustable indexing rods on said member, switching means engageable with said indexing rods in succession and including contacts movable from a normal position to an alternate position by engagement of the switching means with one of said rods, an interval motor for advancing said switching means along any given indexing rod until separated therefrom, and an operating circuit for said interval motor, said switching means alternately opening one of said driving circuits and closing the other in succession.

2,637,836
METHOD FOR CHARGING STORAGE BATTERIES
Thomas L. Kendall, Clifford B. Bodenhafer, and Roy I. Plummer, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 24, 1950, Serial No. 197,494
5 Claims. (Cl. 320—24)

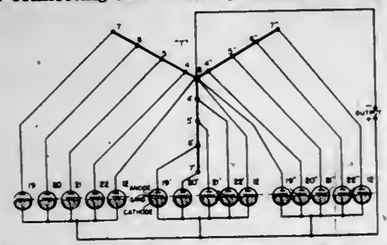


1. In a method for the fast charging of batteries of the pasted lead plate type, the steps comprising; passing the highest charge current possible through the battery for a time sufficient to bring the charge within the battery to from one-third to two-thirds full charge while simultaneously limiting the temperature of the battery electrolyte to a maximum of not to exceed 120° F. above the ambient temperature, reducing the charge on the battery to a point sufficient to permit the battery electrolyte to cool to a least 40° F. above the ambient temperature and simultaneously to precipitate crystals of lead sulphate on the positive and negative plates, and then charging the battery at a rate further reduced

2,637,837
INDUSTRIAL SYSTEM OF VOLTAGE RECTIFICATION BY MEANS OF RECTIFYING TUBES PROVIDED WITH A CONTROL GRID
Pierre Marie Gabriel Toulon, Paris, France, assignor to Products & Licensing Corporation, New York, N. Y., a corporation of Delaware
Application August 4, 1947, Serial No. 766,031
In France January 17, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 17, 1962
21 Claims. (Cl. 321—21)

1. In a system for progressively varying the output of a rectifier system supplied with voltage from a plural phase transformer, each of the phases of said transformer providing a plurality of output terminals at successively lower voltage, and wherein said rectifier system comprises a plurality of rectifier pairs connected back to back, means successively reducing the current in dif-

ferent of said pairs to a minimum, and means for connecting each of said pairs in succession to



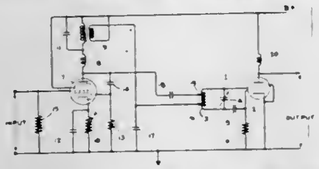
different ones of said phases after the current in said pair has been reduced to said minimum.

2,637,838

AMPLITUDE MODULATION CIRCUIT

Philip H. Peters, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 10, 1950, Serial No. 161,053
3 Claims. (Cl. 332—37)



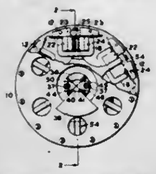
2. A circuit for supplying an amplitude modulated output signal comprising an electronic oscillator circuit having an output frequency and amplitude dependent upon the energizing voltage for said oscillator, said oscillator including a tank circuit the parameters of which determine the output frequency of said oscillator at a given energizing voltage, and means for amplitude modulating said oscillator including a modulator-reactance electronic valve connected to vary the energizing voltage for said oscillator in response to an input signal whereby the output of said oscillator will be both amplitude and frequency modulated, said valve being also connected to vary simultaneously the parameters of said tank circuit to compensate for the frequency modulation of the output of said oscillator.

2,637,839

ROTATIONAL SEISMOMETER

Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 20, 1948, Serial No. 22,191
10 Claims. (Cl. 340—17)



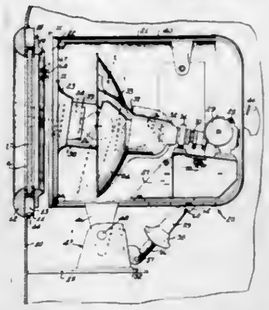
1. A rotational seismometer comprising, in combination, a casing, a paramagnetic core mounted on said casing, a coil wound thereon, a suspended element, resilient means suspending said element for relative rotational movement with respect to said casing and biasing said element to a predetermined angular position, a pair of axially spaced radially extending paramagnetic fingers forming a part of said element and having their peripheral end portions closely spaced to and embracing said core, and means for establishing a magnetic flux linkage between said fingers and said core whereby relative angular movement between said casing and said element causes a change in said flux linkage thereby producing an electric current in said coil which is representative of said angular movement.

2,637,840

POSITION ADJUSTMENT LOCKING DEVICE FOR WARNING LIGHTS

Arthur C. Heehler, Chicago, and Thomas E. McDowell, Oak Park, Ill., assignors to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey

Application May 14, 1951, Serial No. 226,142
14 Claims. (Cl. 340—49)



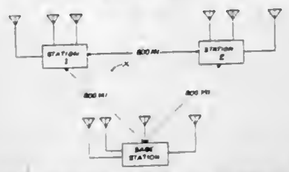
1. A warning light apparatus comprising a stationary front ring, a stationary platform extending away from said front ring, a warning light casing pivotally mounted on said platform, and a wedge lock between said warning light casing and said platform to pivotally force said warning light casing into engaging abutment with said front ring.

2,637,841

POSITION FINDING OF ELECTRICAL DISTURBANCES

Howard Davis, Long Branch, N. J., Sholom Kass, Rehovot, Israel, and Jerome F. Kelliher, Middletown, and Lawrence A. Pick, Little Silver, N. J., assignors to the United States of America as represented by the Secretary of the Army

Application April 20, 1951, Serial No. 222,122
4 Claims. (Cl. 340—212)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A meteorological system to locate the position of electrical disturbances comprising a plurality of observation stations and a base station,

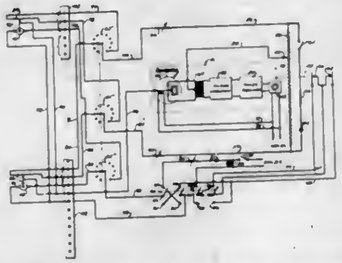
said stations remote from said disturbances, each of said observation stations including a pulse transmitter, trigger means coupled to said pulse transmitter, means for detecting electromagnetic energy radiated from said disturbances coupled to said trigger means so that upon detection of said energy, one pulse will be generated by said transmitter, said base station including indicating means, means responsive to electromagnetic energy radiated from said disturbances for exciting said indicating means, pulse receiving means, said receiving means generating signals in response to said pulses and applying said signals to said indicating means so that the time difference of reception of electromagnetic energy radiated from said disturbances among all of said stations may be ascertained.

2,637,842

REMOTELY CONTROLLED AND INDICATING PROBE ACTUATION

Leonard C. Smith, Berea, Ohio

Application October 13, 1949, Serial No. 121,083
5 Claims. (Cl. 340—226)
(Granted under Title 35, U. S. Code (1952), sec. 266)



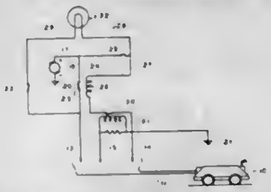
1. In apparatus of the character disclosed, in combination, a frame member, a probe apparatus comprising a first probe support, said first probe support being rotatably mounted in said frame member, first motor means, means coupling said first motor means to said first probe support for rotating said first probe support upon the rotation of said first motor means, a first potentiometer having a movable arm, said movable arm being operatively connected to said coupling means and positioned in accordance with the angular position of said first probe support, a second probe support rotatably mounted in said frame member, second motor means, means coupling said second motor means to said second probe support for rotating said second probe support upon the rotation of said second motor means, a second potentiometer having a movable arm, said last named arm being operatively connected to said last named coupling means and positioned in accordance with the setting of said second probe support, electrical circuit means including energizing means and switching means operatively connected to said first and second motor means, and additional electrical circuit means including indicating means operatively connected to said first and second potentiometers for utilizing the voltages at the arms of said potentiometers for selectively indicating the settings of said first and second probe supports, said first and second probe supports being so disposed that angular and axial probing motions are provided with respect to an axis common to said first and second probe supports.

2,637,843

GROUND DETECTOR AND PROTECTIVE SYSTEM

Harold L. Kammerdiener, Cadogan, Pa.

Application February 7, 1950, Serial No. 142,883
1 Claim. (Cl. 340—255)



An electrical protective system for high voltage, high current, direct current electrical equipment and a three conductor cable wherein the cable has a positive and a negative conductor and an intermediate mechanical ground conductor grounded to the frame of the electrical equipment, said system including a first circuit from a direct power source through a first solenoid coil through a normally closed delayed action opening switch back to the power source, a second circuit from the power source through a normally open switch arranged to be held closed by said first solenoid coil when energized, to the positive conductor of the cable to the mining equipment and back through the negative conductor to the power source, a resistor connecting such ground conductor back to the power source, a second coil connecting such ground conductor to the power source in parallelism with said resistor, said second coil being arranged, when energized, to actuate said delayed action opening switch to open position and thereby de-energize said first solenoid coil and thus break said second circuit from the power source to the electrical equipment, and a third circuit including a signal means and a normally closed openable switch, said third circuit connecting said power source to said second circuit beyond its said normally open switch and effective when such switch has been permitted to open by de-energization of said first coil, whereby, when a short circuit develops, it is caught by the mechanical ground conductor and led through the resistor to the power source, and also through said second coil, energizing said second coil and to open and hold open said delayed action switch, de-energizing said first coil and permitting said first switch to open and interrupt said second circuit from the power source to the electrical equipment, thereby effectuating said third circuit to said signal means through said openable switch to the short circuit and through the parallel resistor and said second coil, and when said third circuit openable switch is opened, causing a cyclic opening and closing of said delayed action switch to cause a detectable fluctuating current of limited amount to and through the short circuit.

2,637,844

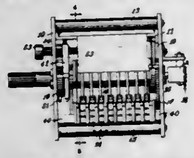
OPERATOR IDENTIFIER TRANSMITTER

Ralph L. Thompson, New Hyde Park, N. Y.; Jacqueline E. Thompson, administratrix of said Ralph L. Thompson, deceased

Application February 10, 1950, Serial No. 143,422
2 Claims. (Cl. 340—301)

1. In apparatus for the transmission of electrical signals by the manual operation of a selected rod of a plurality of different rods, including a housing having a front plate with key slot entrance opening; a longitudinally slotted

sleeve rotatably mounted within the housing coaxially with the entrance opening, and means to prevent rotation of the sleeve in one direction; releasable means to lock in two positions the sleeve against rotation in the same direction and opposite to said one direction, and means accessible externally of the housing and manually actuable for axial displacement to disengage said locking means temporarily; a bank of signal switches within the housing, and means to energize said bank of signal switches; and a



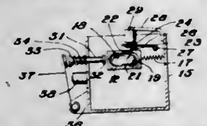
plurality of operating rods introducible selectively into the housing through said entrance opening and into the slotted sleeve, each rod having a plurality of integral, radially extending pins along its surface, all in a common plane and adapted to pass through the slot of said sleeve to project beyond the same, said pins upon rotation of a rod through a predetermined arc being adapted to actuate in accordance with the displacement of a pin longitudinally along its rod pre-selected switches of the bank of signal switches for the transmission of signals.

2,637,845

RANDOM SIGNAL GENERATOR

Robert L. Craiglow, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application September 12, 1951, Serial No. 246,279
5 Claims. (Cl. 340—345)



1. Apparatus for generating a signal of a random nature comprising, a holding bracket, a plurality of boxes formed with generally cylindrical openings flexibly supported by said holding bracket, each of said boxes formed with a partial partition within the cylindrical opening, a ball received in each of said boxes within the cylindrical opening, a plurality of switches pivotally supported by said holding bracket above each of said boxes, an actuating pin extending from each of said switches, an opening formed in each of said boxes with said actuating pins received through said openings when the switches are in their down-positions, first electromagnetic means for striking said boxes to jar the balls in a random manner, and second electromagnetic means controlling the positions of said switches to move them to the up position when the first electromagnetic means jar the boxes.

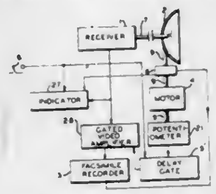
2,637,846

RECORDING PLAN POSITION INDICATOR

George E. Valley, Jr., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application September 14, 1945, Serial No. 616,399
5 Claims. (Cl. 343—5)

1. A regional mapping system comprising, in combination, a moving radio echo detection system having at least a circular-scanning antenna, a modulator and a receiver, a delay gate voltage circuit responsive to trigger voltages from said



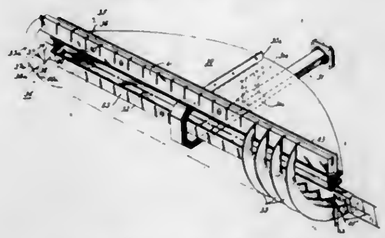
modulator, a facsimile recorder driven in synchronism with said antenna, said receiver impressing signals upon said facsimile recorder in response to gate voltage pulses from said delay gate voltage circuit.

2,637,847

POLARIZING ANTENNA FOR CYLINDRICAL WAVES

Herman A. Affel, Jr., Philadelphia, and Richard A. Dibos, Glenside, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application December 4, 1948, Serial No. 63,524
9 Claims. (Cl. 343—100)



1. In combination, an electromagnetic wave radiator constructed and arranged to radiate substantially plane polarized cylindrical waves, said radiator being constructed and arranged for optimum operation with waves of a predetermined wavelength, and a structure for modifying the polarization of said waves, said structure being disposed with reference to said radiator so as to be interposed in the path of said radiated waves and comprising a plurality of spaced conductive plates, said plates being shaped to define portions of substantially right-helicoidal surfaces having axes which coincide substantially with the axis of the virtual source of said radiated waves, the spacing between adjacent plates of said polarization-modifying structure, measured in a direction normal to said plates, being at least equal to one-half said predetermined wavelength.

2,637,848

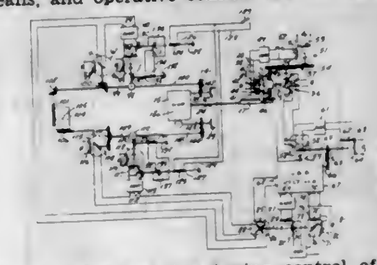
RADIO NAVIGATION APPARATUS

Frederick W. Cunningham, Stamford, Conn., assignor to Arma Corporation, Brooklyn, N. Y., a corporation of New York

Application May 1, 1951, Serial No. 223,968
20 Claims. (Cl. 343—112)

1. In navigation apparatus for dirigible craft utilizing a radio, receiver having a tuning control

for tuning the same to one of a series of fixed transmitters spaced along the route of the craft and each emitting a signal which is characteristic of that transmitter, the combination of a plate-like movable element on said craft having indicated thereon the relative location of at least one of the several transmitters, a second plate-like element connected to and movable with said first element and having means representing the signal characteristic of at least said one transmitter, means responsive to the signal characteristic representing means of said second element upon cooperation therewith, mechanism for simultaneously moving said elements to position the said signal characteristic representing means of said second plate-like element into cooperative relation with said responsive means, electrical control means energized in accordance with the response of said responsive means, motive means controlled by said electrical control means, and operative connections between said

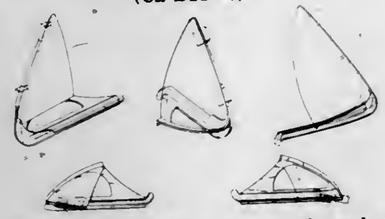


motive means and the tuning control of said receiver.

DESIGNS

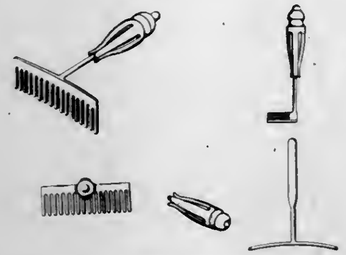
MAY 5, 1953

169,469
AIR AND RAIN DIVERTER
Kador George Anderson, Chicago, Ill.
Application June 27, 1951, Serial No. 25,693
Term of patent 7 years
(Cl. D14—6)



The ornamental design for an air and rain diverter, substantially as shown and described.

169,470
COMBINED HAIR CURLER AND COMB
Thomas H. Bimrose, Beverly Hills, Calif.
Application August 11, 1952, Serial No. 20,968
Term of patent 14 years
(Cl. D86—8)



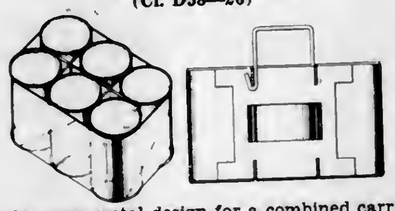
The ornamental design for a combined hair curler and comb, substantially as shown and described.

169,471
FRONT FOR SUNGLASS FRAMES OR THE LIKE
Jack Bloch, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application February 3, 1953, Serial No. 23,429
Term of patent 14 years
(Cl. D57—1)



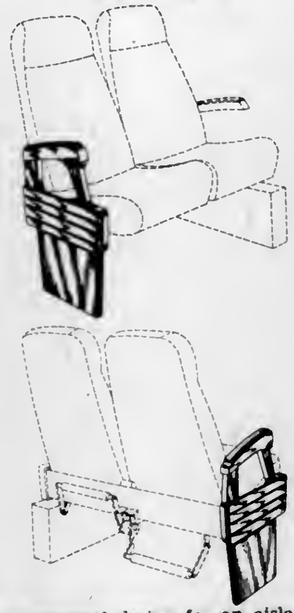
The ornamental design for a front for sunglass frames or the like, substantially as shown and described.

169,472
COMBINED CARRIER PACKAGE AND CANS
John K. Bruce, South Pasadena, and Thomas H. Davis, Alhambra, Calif.
Application March 30, 1950, Serial No. 8,868
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a combined carrier package and cans, substantially as shown and described.

169,473
AISLE STANDARD FOR RECLINING CHAIRS
Laurence W. Brulin, New York, N. Y., and Laird F. Covey, Darien, Conn., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application October 23, 1952, Serial No. 21,958
Term of patent 14 years
(Cl. D15—8)



The ornamental design for an aisle standard for reclining chairs, substantially as shown and described.

169,474
SCARF
Lucien Deroubaix, Paris, France, assignor to Edgar C. Hyman Co. Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,204
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a scarf, substantially as shown and described.

169,475
STOCKING
Lonnie Eugene Frye, Hillsville, Va., assignor to Carroll Hosiery Corporation, New York, N. Y., a corporation of New York
Application July 9, 1952, Serial No. 20,530
Term of patent 3½ years
(Cl. D47—7)



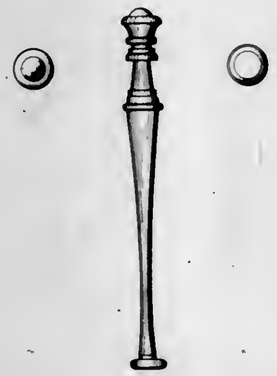
The ornamental design for a stocking, as shown.

169,476
SPECTACLE FRAME
Mac Gerlich, Brooklyn, N. Y.
Application January 23, 1952, Serial No. 18,181
Term of patent 7 years
(Cl. D57—1)



The ornamental design for a spectacle frame, as shown and described.

169,477
MUDDLER
Benjamin D. Gilbert, Stamford, Conn.
Application July 31, 1952, Serial No. 20,865
Term of patent 14 years
(Cl. D16—1)



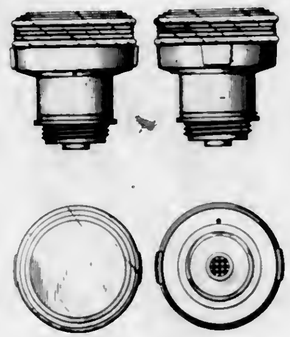
The ornamental design for a muddler, as shown.

169,478
PLATE OR SIMILAR ARTICLE
David Goldrosen, Worcester, Mass., assignor to Dapol Plastics, Inc., Worcester, Mass., a corporation of Massachusetts
Application June 26, 1952, Serial No. 20,360
Term of patent 3½ years
(Cl. D44—15)



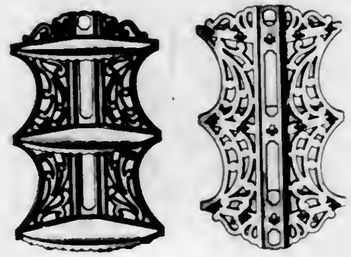
The ornamental design for a plate or similar article, substantially as shown and described.

169,479
CATALYST BATTERY CAP
Harold M. Gulick, Miami, and Cresswell E. Stedman, Coral Gables, Fla., assignors to Industrial Research, Inc., Miami, Fla., a corporation of Florida
Application December 8, 1952, Serial No. 22,596
Term of patent 14 years
(Cl. D26—6)



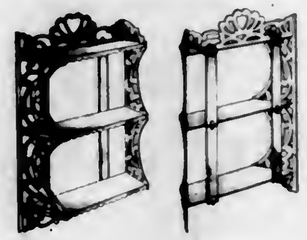
The ornamental design for a catalyst battery cap, substantially as shown.

169,480
SHELF
Anne Helfenbein and Raymond J. Hardt, Chicago, Ill., assignors to Plastic Metal Mfg. Co., Chicago, Ill., a corporation of Illinois
Application July 5, 1952, Serial No. 20,480
Term of patent 7 years
(Cl. D33—3)



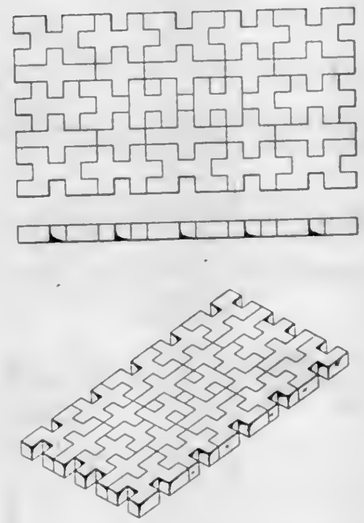
The ornamental design for a shelf, substantially as shown.

169,481
SHELF
Anne Helfenbein and Raymond J. Hardt, Chicago, Ill., assignors to Plastic Metal Mfg. Co., Chicago, Ill., a corporation of Illinois
Application July 5, 1952, Serial No. 20,481
Term of patent 7 years
(Cl. D33—3)



The ornamental design for a shelf, substantially as shown.

169,482
DISPLAY UNIT OF INTERFITTED TOY BLOCKS
Jane B. Henke, near Seattle, and Robert W. Beach, Seattle, Wash.; said Beach assignor to said Henke
Application September 18, 1951, Serial No. 16,675
Term of patent 14 years
(Cl. D34—15)



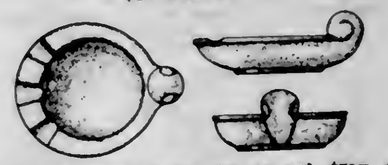
The ornamental design for a display unit of interfitted toy blocks, substantially as shown.

169,483
CIGARETTE HOLDER
Carl F. Herdecker, North Attleboro, Mass., assignor to Evans Case Co., North Attleboro, Mass.
Application November 28, 1952, Serial No. 22,481
Term of patent 14 years
(Cl. D85—2)



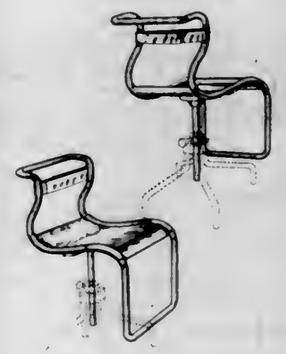
The ornamental design for a cigarette holder, as shown.

169,484
ASH TRAY
Carl F. Herdecker, North Attleboro, Mass., assignor to Evans Case Co., North Attleboro, Mass.
Application November 28, 1952, Serial No. 22,482
Term of patent 14 years
(Cl. D85—2)



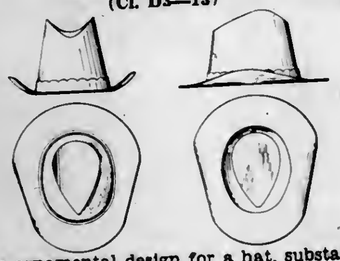
The ornamental design for an ash tray, as shown.

169,485
CHAIR
Joseph C. Higgins, Chicago, Ill.
Application December 4, 1952, Serial No. 22,551
Term of patent 14 years
(Cl. D15—8)



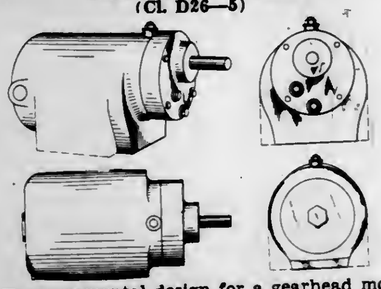
The ornamental design for a chair, substantially as shown and described.

169,486
HAT
Victor T. Hoeflich, Forest Hills, N. Y.
Application September 19, 1952, Serial No. 21,520
Term of patent 14 years
(Cl. D3—13)



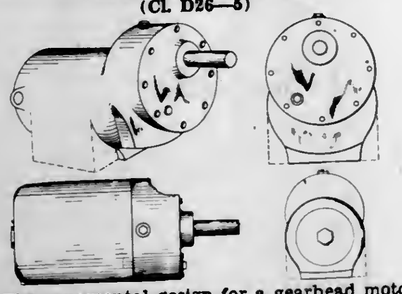
The ornamental design for a hat, substantially as shown.

169,487
GEARHEAD MOTOR
Anthony G. Horvath and William H. Kuner, Dayton, and Robert L. Wolfe, Springfield, Ohio, assignors to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application September 26, 1951, Serial No. 16,753
Term of patent 14 years
(Cl. D26—5)



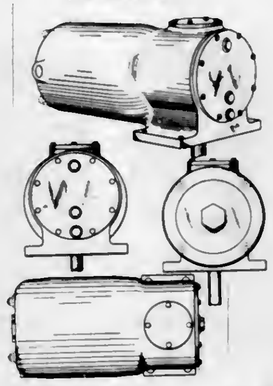
The ornamental design for a gearhead motor, substantially as shown and described.

169,488
GEARHEAD MOTOR
Anthony G. Horvath and William H. Kuner, Dayton, and Robert L. Wolfe, Springfield, Ohio, assignors to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application September 26, 1951, Serial No. 16,754
Term of patent 14 years
(Cl. D26—5)



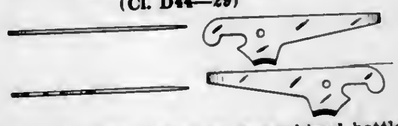
The ornamental design for a gearhead motor, substantially as shown and described.

169,489
RIGHT ANGLE GEARHEAD MOTOR
Anthony G. Horvath and William H. Kuner, Dayton, and Robert L. Wolfe, Springfield, Ohio, assignors to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application September 26, 1951, Serial No. 16,755
Term of patent 14 years
(Cl. D26—5)



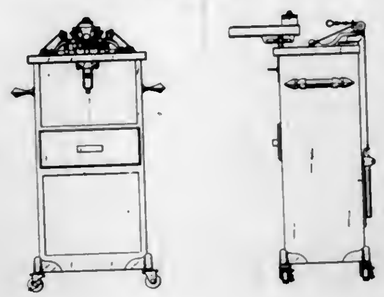
The ornamental design for a right angle gearhead motor, substantially as shown and described.

169,490
COMBINED BOTTLE OPENER AND SCREW DRIVER
Christian J. Hug, Highland, Ill.
Application August 25, 1952, Serial No. 21,181
Term of patent 14 years
(Cl. D44—29)

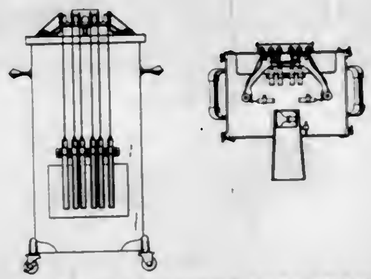


The ornamental design for a combined bottle opener and screw driver, as shown.

169,491
PHYSIOTHERAPEUTIC DEVICE FOR THE HANDS, ARMS, AND THE LIKE
Thad D. Isham, Owosso, Mich.
Application May 14, 1952, Serial No. 19,714
Term of patent 14 years
(Cl. D83—1)



169,491—Continued



The ornamental design for a physiotherapeutic device for the hands, arms, and the like, as shown and described.

169,492
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,014
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,493
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,018
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,494
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,019
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,495
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,020
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,496
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,021
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,497
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,023
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,498
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,026
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,499
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,027
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,500
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,029
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,501
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,214
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,502
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,215
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,503
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,218
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,504
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,219
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,505
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,223
Term of patent 7 years
(Cl. D45—19)



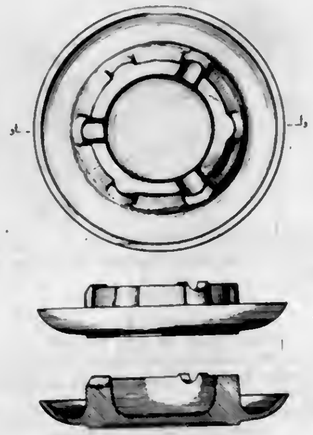
The ornamental design for a brooch or the like, substantially as shown.

169,506
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,224
Term of patent 7 years
(Cl. D45—19)



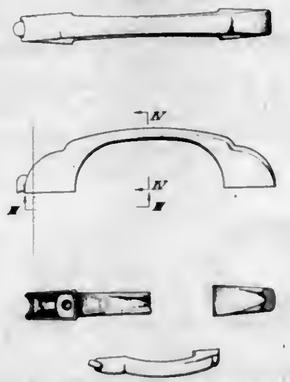
The ornamental design for a brooch or the like, substantially as shown.

169,507
ASH TRAY
Arthur E. Klatt, Los Angeles, Calif.
Application December 6, 1952, Serial No. 22,586
Term of patent 14 years
(Cl. D85—2)



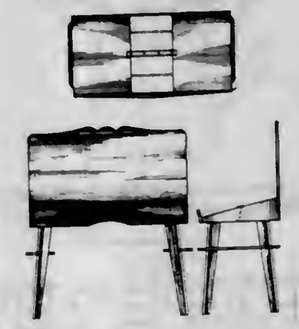
The ornamental design for an ash tray, substantially as shown.

169,508
HANDLE FOR A FILING CABINET
Anton J. Kuhn, Philadelphia, Pa., assignor to Peerless Steel Equipment Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application November 15, 1951, Serial No. 17,417. Divided and this application October 21, 1952, Serial No. 21,917
Term of patent 14 years
(Cl. D10—8)



The ornamental design for a handle for a filing cabinet, as shown.

169,509
DISPLAY RACK
Ernoll Wayne La Barre, Lombard, Ill., assignor to W. L. Stensgaard and Associates, Inc., a corporation of Illinois
Application December 24, 1952, Serial No. 22,869
Term of patent 14 years
(Cl. D80—9)

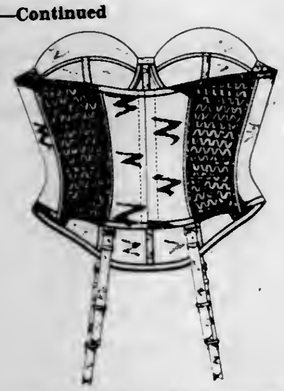


The ornamental design for a display rack, as shown and described.

169,510
COMBINATION GIRDLE AND BRASSIÈRE
Seraphine C. La Bue, Bronx, N. Y., and Henry P. Coogan, Fairfield, Conn., assignors to The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut
Application December 22, 1952, Serial No. 22,809
Term of patent 14 years
(Cl. D20—4)



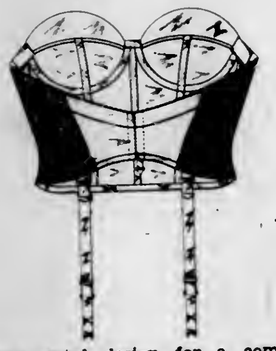
169,510—Continued



The ornamental design for a combination girdle and brassière, as shown.

169,511
COMBINATION GIRDLE AND BRASSIÈRE
Seraphina C. La Bue, Bronx, N. Y., and Henry P. Coogan, Fairfield, Conn., assignors to The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut
Application January 12, 1953, Serial No. 23,100
Term of patent 14 years
(Cl. D20—4)





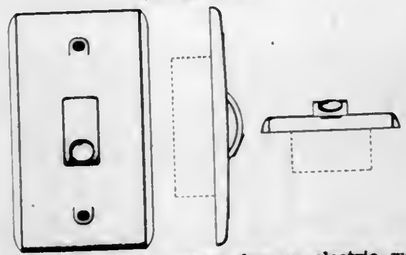
The ornamental design for a combination girdle and brassière, as shown.

169,512
COMBINATION CLOCK, RADIO, AND PIANO CASING
Max Liffmann, Providence, and Nicholas Turilli, Cranston, R. I.
Application May 29, 1952, Serial No. 19,946
Term of patent 3½ years
(Cl. D56—9)



The ornamental design for a combination clock, radio, and piano casing, as shown and described.

169,513
ELECTRIC WALL SWITCH
Donald L. McFarland, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application March 22, 1952, Serial No. 19,008
Term of patent 14 years
(Cl. D26—13)



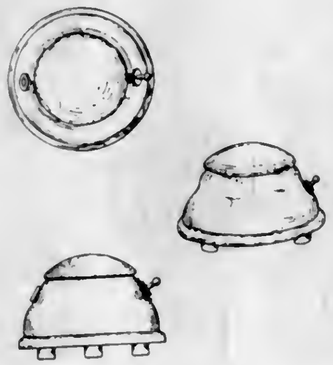
The ornamental design for an electric wall switch, substantially as shown and described.

169,514
VEHICLE WHEEL TRIM OR SIMILAR ARTICLE
Charles A. McLeod, Birmingham, Mich., assignor to A. S. Campbell Company, Boston, Mass., a corporation of Massachusetts
Application November 20, 1952, Serial No. 22,381
Term of patent 14 years
(Cl. D14—30)



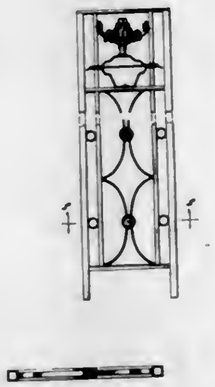
The ornamental design for a vehicle wheel trim or similar article, substantially as shown and described.

169,515
ELECTRIC FOOT VIBRATOR FOR THERAPEUTIC USE OR SIMILAR ARTICLE
Samuel L. McNair, Whitman, Mass., assignor to Standard Products Corporation, Whitman, Mass., a corporation of Massachusetts
Application December 11, 1952, Serial No. 22,625
Term of patent 14 years
(Cl. D83—1)



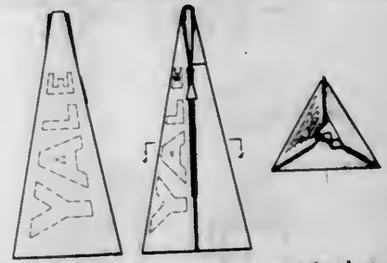
The ornamental design for an electric foot vibrator for therapeutic use or similar article, substantially as shown.

169,516
PORCH TRELLIS OR SIMILAR ARTICLE
Ernest Meierjohan, Cincinnati, Ohio
Application November 1, 1951, Serial No. 17,212
Term of patent 14 years
(Cl. D54—2)



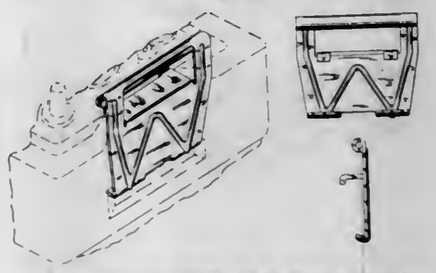
The ornamental design for a porch trellis or similar article, as shown and described.

169,517
CARRYING BAG
Irene M. Murray, Weehawken, N. J., assignor to Talon, Inc., a corporation of Pennsylvania
Application April 5, 1952, Serial No. 19,202
Term of patent 14 years
(Cl. D87—5)



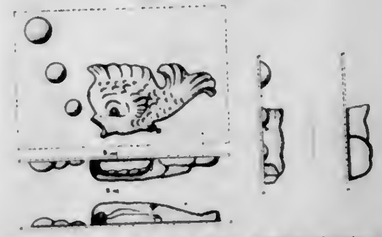
The ornamental design for a carrying bag, substantially as shown.

169,518
BATTERY HANDLE
Robert M. Raney, Euclid, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application October 24, 1952, Serial No. 21,970
Term of patent 14 years
(Cl. D26—6)



The ornamental design for a battery handle, as shown and described.

169,519
WALL PLANTER
William H. Robinson, San Clemente, Calif.
Application December 6, 1952, Serial No. 22,582
Term of patent 14 years
(Cl. D35—3)



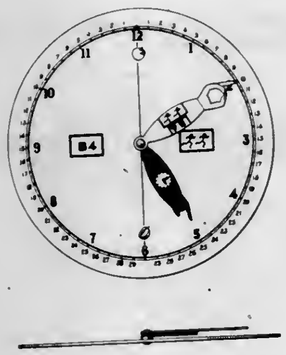
The ornamental design for a wall planter, substantially as shown and described.

169,520
COMBINED PLASTIC BOTTLE AND CAP THEREFOR
Donald J. Schwarz, Cincinnati, Ohio, and Melvin E. St. Clair, Hartford, Conn., assignors to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application January 5, 1953, Serial No. 23,003
Term of patent 14 years
(Cl. D58—8)



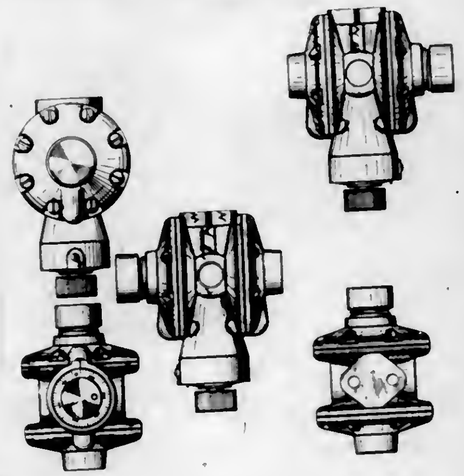
The ornamental design for a combined plastic bottle and cap therefor, as shown.

169,521
COMBINED DIAL AND HANDS FOR A CLOCK OR SIMILAR ARTICLE
Daniel Spooner, Long Beach, N. Y.
Application October 31, 1952, Serial No. 22,091
Term of patent 14 years
(Cl. D42—1)



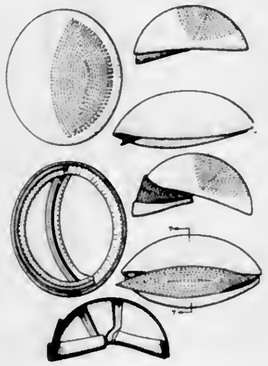
The ornamental design for a combined dial and hands for a clock or similar article, as shown.

169,522
ANHYDROUS AMMONIA CONTROL OR SIMILAR ARTICLE
Theodore A. St. Clair, South Euclid, Ohio
Application January 14, 1953, Serial No. 23,126
Term of patent 3½ years
(Cl. D78—1)



The ornamental design for an anhydrous ammonia control or similar article, as shown.

169,523
CONVERTIBLE HAT
Marianne Tuteur, New York, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application April 5, 1952, Serial No. 19,200
Term of patent 7 years
(Cl. D3—13)



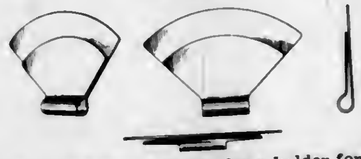
The ornamental design for a convertible hat, substantially as shown.

169,524
EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Fred Weber, Teaneck, N. J.
Application December 17, 1952, Serial No. 22,737
Term of patent 3½ years
(Cl. D3—9)



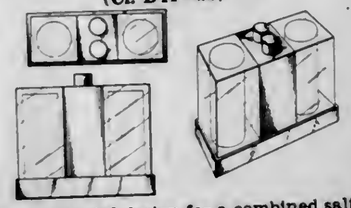
The ornamental design for an embroidered trimming or similar article, substantially as shown.

169,525
HOLDER FOR A HAND OF PLAYING CARDS
Dorothy E. Whiting, Fairfield, Conn., assignor to Eastern Plastics, Inc., Fairfield, Conn., a corporation of Connecticut
Application November 1, 1951, Serial No. 17,224
Term of patent 7 years
(Cl. D34—13)



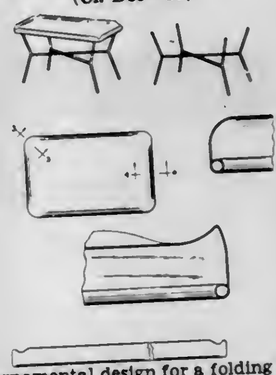
The ornamental design for a holder for a hand of playing cards, substantially as shown.

169,526
COMBINED SALT AND PEPPER DISPENSER OR SIMILAR ARTICLE
Dorothy M. Witzgall, Dalton, Mass., assignor to Herbert J. Witzgall
Application June 25, 1952, Serial No. 20,341
Term of patent 14 years
(Cl. D44—22)



The ornamental design for a combined salt and pepper dispenser, or similar article as shown.

169,527
FOLDING TRAY TABLE
Russel Wright, New York, N. Y., assignor to Shwayder Brothers, Ecorse, Mich., a corporation of Colorado
Application December 19, 1952, Serial No. 22,764
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a folding tray table, substantially as shown.

May 12, 1953 Volume 670 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

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PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business April 24, 1953

Total number of patent applications awaiting action, 97,568. Date of oldest new application, July 25, 1952; date of oldest amended application, July 16, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.		3-11-53	3
1. OOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; sewerage.	7-31-52	8-1-52	1539
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	8-21-52	8-5-52	1186
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-4-52	9-2-52	1923
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	8-8-52	8-8-52	1451
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-13-52	8-11-52	1045
6. SURLE, H., Carbon Chemistry (part)	7-19-52	7-17-52	2544
7. GONSALVES, J. E., Optics; Photography (part)	8-1-52	8-1-52	1529
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	9-8-52	9-8-52	1113
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	8-14-52	8-12-52	1271
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; cloth, Leather and Ruhber Receptacles; Bottles and Jars; Paper Receptacles.	8-21-52	8-20-52	1292
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	7-29-52	7-30-52	1174
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	8-1-52	8-3-52	1321
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	7-31-52	7-26-52	1317
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	8-15-52	8-13-52	1501
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	7-28-52	7-21-52	1763
16. LOVEWELL, N. N., Television, Telephony	8-9-52	8-11-52	1500
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	8-2-52	8-1-52	1633
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-2-52	8-22-52	684
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	7-25-52	7-16-52	1163
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	8-19-52	8-19-52	1285
21. MADER, R. C., Textiles	8-7-52	8-7-52	1249
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	7-28-52	8-15-52	960
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	8-4-52	8-6-52	854
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	9-16-52	9-15-52	1053
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	7-25-52	7-25-52	1244
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	8-25-52	8-25-52	1762
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	8-11-52	8-11-52	1290
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	8-5-52	8-2-52	1093
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	8-14-52	7-24-52	1159
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	9-12-52	9-11-52	1349
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldyhydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	7-22-52	7-23-52	2466
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-3-52	9-8-52	1316
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	8-1-52	8-11-52	1805
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	7-29-52	7-30-52	1230
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	9-18-52	9-4-52	1210
36. McFADYEN, A. D., Measuring and Testing	8-15-52	8-18-52	1091
37. LEVY, M. L., Electricity-Switches, Welding, Heating; Recorders	8-12-52	8-18-52	1976
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	8-18-52	8-6-52	1549
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	10-14-52	10-13-52	1763
40. DRUMMOND, E. J., Receptacles (part); Packages	11-1-52	11-3-52	1051
41. GURLEY, R. B., Check Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-5-52	9-8-52	853

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	8-22-52	8-20-52	1025
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch: Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	8-18-52	8-21-52	1710
44. COBLE, A. S. (Acting), Beds; Chairs; Seats	8-21-52	8-20-52	1190
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	9-2-52	9-2-52	1320
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	8-1-52	7-28-52	1052
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting Motor Vehicles; Land Vehicles (part)	8-4-52	7-28-52	1669
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	8-8-52	8-6-52	1688
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	8-19-52	8-19-52	1280
50. BENGEL, W. G., Synthetic Resins; Rubber	10-6-52	9-27-52	1615
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	8-1-52	8-1-52	1501
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	9-16-52	9-12-52	1888
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	8-26-52	8-26-52	1002
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	8-9-52	8-11-52	1832
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	8-16-52	8-5-52	992
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	9-5-52	9-3-52	1279
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	9-25-52	9-23-52	1656
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	8-8-52	7-26-52	1380
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	8-15-52	8-25-52	1363
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994)	8-15-52	8-12-52	1048
61. STRIZAK, J. P. (Acting), Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	9-2-52	8-29-52	1159
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	8-2-52	8-5-52	1859
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	7-31-52	7-28-52	1845
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	9-4-52	9-4-52	1310
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	8-22-52	8-9-52	828
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	8-21-52	8-18-52	1743
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation: Paper Making.	10-4-52	9-26-52	1336
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	8-26-52	8-25-52	1116
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	7-22-52	7-22-52	3322
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-27-52	1-2-53	819
DESIGNS: A—BREHM, G. L., Industrial Arts	12-31-52	1-14-53	675
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts			

Number of new applications filed for the week ending April 10, 1953

PATENTS 1,326 DESIGNS 99 REISSUES 4 TOTAL 1,429

Total number of trade-mark applications awaiting action (including renewals and republications), 11,311. Date of oldest new application, Nov. 18, 1952; date of oldest amended application, Nov. 18, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, B. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	11-18-52	11-18-52	2852
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	12-10-52	12-11-52	2492
Renewals (All Classes)	2-26-53	4-6-53	557
Republications (All Classes)	2-25-53	2-25-53	339
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	12-10-52	11-26-52	2592
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	11-26-52	11-24-52	2479

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

AP Parts Corporation, The, Toledo, Ohio. Halogenated hydrocarbon liquid carriers. Serial No. 634,957, May 12. Class 6.

Abbott Laboratories, North Chicago, Ill. Hypnotic sedative anesthetic compound. Serial No. 633,189, May 12. Class 18.

Able Industries Corporation, New York, N. Y. Automobile polish. Serial No. 661,401, May 12. Class 4.

Aladdin Laboratories, Inc., Minneapolis, Minn. Liquid fuel catalytic type hand warmers. Serial No. 635,113, May 12. Class 34.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromagnetic vibrating feeders and electrical power units. Serial No. 614,804, May 12. Class 21.

Alther, John W., Washington, D. C. Dry, ready-mixed concrete. Serial No. 634,515, May 12. Class 12.

Altman, Joseph, San Francisco, Calif. Men's and young men's suits, top-coats, sport coats, etc. Serial No. 618,332, May 12. Class 39.

American Colloid Company, Chicago, Ill. Wyoming type bentonite. Serial No. 626,133, May 12. Class 1.

American Colloid Company, Chicago, Ill. Clays. Serial No. 631,774, May 12. Class 1.

American Cyanamid Company, New York, N. Y. Textile fabric. Serial No. 622,245, May 12. Class 42.

American Cyanamid Company, New York, N. Y. Feed supplement. Serial No. 632,340, May 12. Class 18.

American Cystoscope Makers, Inc., New York, N. Y. Electrical apparatus. Serial No. 637,982, May 12. Class 21.

American Pulley Company, The, Philadelphia, Pa. Rubber lagging. Serial No. 642,724, May 12. Class 35.

Amole, Incorporated, Dayton, Ohio. Facial cream preparations, toilet preparation, and hand creams. Serial No. 625,389, May 12. Class 51.

Anchor Rubber Company, The, assignee: *See*—
Anchor Rubber Company.

Anchor Rubber Company, assignor to The Anchor Rubber Company, Dayton, Ohio. Belting and hose. Serial No. 623,703, May 12. Class 35.

Armtex, Incorporated, Pilot Mountain, N. C. Knitted fabric. Serial No. 638,629, May 12. Class 42.

Arvin Electric Limited, Southend-on-Sea, England. Dry shavers, safety razors, straight razors, and hair clippers. Serial No. 620,333, May 12. Class 23.

Associated Brands, Inc., Brooklyn, N. Y. Hair tonic, hair dress with oil, bay rum compound, etc. Serial No. 625,440, May 12. Class 51.

Athea Laboratories, Incorporated, Milwaukee, Wis. Hand lotion. Serial No. 633,442, May 12. Class 51.

Babcock & Co.: *See*—
Babcock, William J.

Babcock, William J., doing business under the name and style Babcock & Co., Oakland, Calif. Right angle drive attachments for power drills, flexible disk sanders and polisher attachments for power drills, etc. Serial No. 628,665, May 12. Class 23.

Balata, Victor, & Textile Belting Co., Easton, Pa., and New York, N. Y. Sifter brushes. Serial No. 620,241, May 12. Class 23.

Bard's Products, Inc., Evanston, Ill. Adhesive. Serial No. 635,344, May 12. Class 5.

Barton Manufacturing Company, St. Louis, Mo. Polish. Serial No. 626,295, May 12. Class 4.

Beach Soap Company, Lawrence, Mass. Material for use in connection with the washing of textiles. Serial No. 631,646, May 12. Class 6.

Bedford Shirt Corp., New York, N. Y. Men's and boys' dress shirts and sport shirts. Serial No. 631,647, May 12. Class 39.

Bernhardt, Ella H., New York, N. Y. Prosthetic devices. Serial No. 592,187, May 12. Class 44.

Betterly, Warren A., doing business as The M. A. E. Co., Fall River, Mass. Chemical composition. Serial No. 633,031, May 12. Class 6.

Biggar & Biggar, Fort Myers, Fla. Fresh vegetables. Serial No. 627,551, May 12. Class 46.

Block Drug Company, Inc., doing business under the trade name and style of Emergency Laboratories, Jersey City, N. J. Water soluble ointment base. Serial No. 608,913, May 12. Class 18.

Boehringer, C. H., Sohn, Ingelheim am Rhein, Germany. Eye-drops. Serial No. 612,103, May 12. Class 18.

Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Anhydrous sodium tetraborate. Serial No. 631,534, May 12. Class 6.

Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Sodium tetraborate pentahydrate. Serial No. 631,535, May 12. Class 6.

Boston Vacuum Trust: *See*—
Howard, John B.

Boston Woven Hose and Rubber Company, Cambridge, Mass. Plastic garden hose. Serial No. 629,140, May 12. Class 35.

Boyles, Truman, Mattress Company, Alexandria, Va. Mattresses and box springs. Serial No. 635,007, May 12. Class 32.

Brandwein & Company: *See*—
Brandwein, William.

Brandwein, William, doing business as Brandwein & Company, Chicago, Ill. Plastic-coated cotton and linen fabric. Serial No. 638,633, May 12. Class 42.

Bridgeport Brass Company, Bridgeport, Conn. Space deodorant. Serial No. 565,471, May 12. Class 6.

Britanny Hat Co. Inc., The, New York, N. Y. Men's and boys' hats. Serial No. 634,774, May 12. Class 39.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes. Serial No. 603,759, May 12. Class 17.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alleys and parts thereof; pins, balls, etc. Serial No. 598,882, May 12. Class 22.

Bryant, Curtis L., Detroit, Mich. Tooth powder. Serial No. 630,114, May 12. Class 51.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Chemical cotton pulp (alpha cellulose). Serial No. 590,803, May 12. Class 1.

Burlington Basket Company, Burlington, Iowa. Hamper baskets, baby baskets, laundry baskets, etc. Serial No. 613,498, May 12. Class 2.

Burn-Strauss, Inc., Los Angeles, Calif. Supports in the form of tripods. Serial No. 633,709, May 12. Class 32.

Bushnell, Robert A., Caldwell, Idaho. Boxes. Serial No. 634,729, May 12. Class 2.

Buxton, Incorporated, Springfield, Mass. Billfolds, pass cases, purses, etc. Serial No. 637,750, May 12. Class 3.

California Berry Freezers, Inc., Watsonville, Calif. Fresh berries, frozen fresh berries and fresh vegetables. Serial No. 632,016, May 12. Class 46.

California Chemical Corporation, San Bernardino, Calif. Chemical ingredients. Serial No. 611,559, May 12. Class 6.

California Manufacturing Co., St. Louis, Mo. Men's, boys' and juvenile coats, jackets, raincoats, etc. Serial No. 621,863, May 12. Class 39.

Cardinal Products: *See*—
Robinson, Ted.

Carolina Metal Products, Inc., Charlotte, N. C. Folding chairs. Serial No. 639,464, May 12. Class 32.

Carrier Engineering Company Limited, London, England. Machine for cleaning, rust-proofing, priming, and painting sheet metal articles. Serial No. 567,499, May 12. Class 23.

Carson, Virginia S., Kansas City, Mo. Deodorizer, germicide, and disinfectant. Serial No. 635,901, May 12. Class 6.

Castaldo, Neil, Cranford, N. J. Germicidal and fungicidal composition. Serial No. 627,112, May 12. Class 18.

Century Specialty Co.: *See*—
Duckin, Morris L.

Champion Textile Finishing Co., Chicago, Ill. Liquid inhibitant for treating fabric. Serial No. 624,999, May 12. Class 6.

Chemisches Laboratorium am Heiligengeistfeld G. m. b. H., Hamburg, Germany. Medicament. Serial Nos. 628,888–9, May 12. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 636,686, May 12. Class 18.

Chicago Tailoring Co., Chicago, Ill. Men's clothing. Serial No. 607,216, May 12. Class 39.

Chickadee Pie Factory, McAllen, Tex. Ready-to-serve pancakes. Serial No. 632,076, May 12. Class 46.

Ciba Limited, Basel, Switzerland. Chemical products, flame proofing agents. Serial No. 642,016, May 12. Class 6.

Coastal Glads Farm, Fort Myers, Fla. Cut flowers. Serial No. 625,847, May 12. Class 1.

Columbia Broadcasting System, Inc., doing business as Hytron Radio & Electronics Co., New York, N. Y., and Danvers, Mass. Electronic tubes. Serial No. 637,645, May 12. Class 21.

Columbia Plywood Co., Seattle, Wash. Grooved hardboard laminated with plywood. Serial No. 634,435, May 12. Class 12.

Comfort Spring Corporation, Baltimore, Md. Mattresses. Serial No. 638,900, May 12. Class 32.

Connor Lumber and Land Company, The, Marshfield, Wis. Wooden flooring. Serial No. 634,732, May 12. Class 12.

Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes. Serial No. 627,865, May 12. Class 19.

Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coated paper. Serial No. 636,840, May 12. Class 37.

Cook, A. D., Incorporated: *See*—
Jackson, Byron, Co., Inc. of Indiana.

Cook Chemical Company, Kansas City, Mo. Insecticides, fungicides. Serial No. 633,448, May 12. Class 6.
Cook, E. K., & Co., Inc., Washington, D. C. Medicinal preparation. Serial No. 615,210, May 12. Class 18.
Corbart Refractories Company, Louisville, Ky. Refractory blocks, bricks, and bodies. Serial No. 624,396, May 12. Class 12.
Cosmotone Laboratories: *See*—
Faulkner, Henry H.
Cromwell Paper Company, The, Chicago, Ill. Embossed laminated waterproof paper. Serial No. 637,364, May 12. Class 37.
Cueata, Rey & Co., Tampa, Fla. Cigars. Serial No. 638,133, May 12. Class 17.
Dainty Maid Shoe Company, Inc., Haverhill, Mass. Women's shoes. Serial No. 636,001, May 12. Class 39.
Dalton, Phillip P., Tampa, Fla. Artificial fishing bait. Serial No. 590,654, May 12. Class 22.
Dayton Rubber Company, The, Dayton, Ohio. Rubber and fabric vehicle tires. Serial No. 608,700, May 12. Class 35.
Dayton Rubber Company, The, Dayton, Ohio. Rubber vehicle tires. Serial No. 627,383, May 12. Class 35.
Doniger, Arthur, Paper Co., Inc., New York, N. Y. Aluminum foil. Serial No. 630,885, May 12. Class 14.
Drexel Furniture Company, Drexel, N. C. Serving cart. Serial No. 632,419, May 12. Class 32.
Drexel Furniture Company, Drexel, N. C. Bedroom and dining room furniture. Serial No. 633,722, May 12. Class 32.
Dubin, David, Co. Inc., New York, N. Y. Bridal hats and bridal veils. Serial No. 604,524, May 12. Class 39.
Duffy, Mary E., Miami, Fla. Ceramic trays and urns. Serial No. 609,235, May 12. Class 30.
Duluth Universal Milling Company, Duluth, Minn. Wheat flour. Serial No. 607,863, May 12. Class 46.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Combs. Serial No. 636,885, May 12. Class 40.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Sodium cyanide. Serial No. 641,372, May 12. Class 6.
Duskin, Morris L., doing business as Century Specialty Co., Chicago, Ill. Garment travel bags. Serial No. 638,136, May 12. Class 3.
E Z Paintr Corporation: *See*—
Nu-Enamel Corporation.
Eagle Pencil Company, New York, N. Y. Wood encased pencils. Serial No. 636,219, May 12. Class 37.
Eagle Pencil Company, New York, N. Y. Wood encased pencils. Serial No. 636,221, May 12. Class 37.
Eastern Electric, Inc., New Bedford, Mass. Thermostatically controlled instruments. Serial No. 618,630, May 12. Class 26.
Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film. Serial No. 638,409, May 12. Class 26.
Edelstein, Jerome, Inc., New York, N. Y. Fur coats, fur capes, and fur jackets. Serial No. 637,483, May 12. Class 39.
Elder Manufacturing Company, St. Louis, Mo. Piece goods. Serial No. 638,354, May 12. Class 42.
Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric realstors. Serial No. 550,679, May 12. Class 21.
Elizabeth Hat Company, The: *See*—
Neger, Sam.
Ely & Walker Dry Goods Company, St. Louis, Mo. Men's and boys' dress, sport, and work shirts. Serial No. 637,766, May 12. Class 39.
Emergency Laboratories: *See*—
Block Drug Company, Inc.
Enterprise Aluminum Company, The, Massillon, Ohio. Corn poppers. Serial No. 637,767, May 12. Class 13.
Ercona Camera Corporation, New York, N. Y. Photographic lenses. Serial No. 630,999, May 12. Class 26.
Essential Chemicals Co., Inc., The, assignee: *See*—
Ottawa Chemical Company, The.
Estarta y Ecenarro, S. A., Barrio Olaso, Guipuzcoa, Spain. Sewing machines, parts thereof, and attachments therefor. Serial No. 602,897, May 12. Class 23.
Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Kit containing various materials used for soldering aluminum cables. Serial No. 626,868, May 12. Class 50.
Evanston Stamping Company, Evanston, Ill. Metal baking sheets, baking pans, and cooking pans. Serial No. 635,752, May 12. Class 13.
Everest & Jennings, Inc., Los Angeles, Calif. Invalid wheel chairs. Serial No. 626,372, May 12. Class 44.
Fabricant, Maurice, New York, N. Y. Perfumes, toilet waters, colognes, etc. Serial No. 632,555, May 12. Class 51.
Factor, Max, & Co., Hollywood, Calif. Cosmetics. Serial No. 606,373, May 12. Class 51.
Falco Products Co., Philadelphia, Pa. Clothes drying racks. Serial No. 626,663, May 12. Class 24.
Falco Products Co., Philadelphia, Pa. Clothes drying racks. Serial No. 626,734, May 12. Class 24.
Farmcraft Feeds, Inc., Des Moines, Iuwa. Vitamin mixture. Serial No. 627,935, May 22. Class 18.
Faulkner, Henry H., doing business as Cosmotone Laboratories, Los Angeles, Calif. Gray hair preparations. Serial No. 621,396, May 12. Class 51.
Feu Hermanos Responsabilidade Limitada, Portimao, Portugal. Canned sardines. Serial No. 627,057, May 12. Class 46.
Firestone Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. Serial No. 630,672, May 12. Class 35.
First Texas Chemical Manufacturing Co., Dallas, Tex. Cough sirup. Serial No. 595,131, May 12. Class 18.
Fitzsimmons, John A., doing business as Fitzsimmons Products, New York, N. Y. External veterinary liquid preparation. Serial No. 616,627, May 12. Class 18.
Fitzsimmons Products: *See*—
Fitzsimmons, John A.
Foodways, Inc., New York, N. Y. Fresh frozen fruits and vegetables, canned frozen orange juice, etc. Serial No. 627,180, May 12. Class 46.
Fox-Knapp Manufacturing Co., New York, N. Y. Men's and women's sportswear. Serial No. 542,460, May 12. Class 39.
Gates Rubber Company, The, Denver, Colo. Radiator hose. Serial No. 629,565, May 12. Class 35.
Gaylord Container Corporation, St. Louis, Mo. Paper bags and sacks, containers of all kinds, etc. Serial No. 639,424, May 12. Class 2.
Gaylord Products, Incorporated, Chicago, Ill. Bobby pins and hair pins. Serial No. 637,178, May 12. Class 40.
Gelgy Company, Inc., New York, N. Y. Preparation for destroying insects and vermin. Serial No. 612,736, May 12. Class 6.
General Electric Company, Schenectady, N. Y. Insulated electric cord. Serial No. 638,299, May 12. Class 21.
Georgia Shoe Mfg. Co., Flowery Branch, Ga. Leather boots and shoes. Serial No. 608,109, May 12. Class 39.
Geret, Arthur J., trading and doing business as Sausage Industry Suppliers Co., San Jose, Calif. Seasonings for meat products. Serial No. 632,724, May 12. Class 46.
Globe Auto Glass Co., Chicago, Ill. Safety glass. Serial No. 626,874, May 12. Class 33.
Gluck, Daniel, Woodmere, N. Y. Hypodermic syringes. Serial No. 636,475, May 12. Class 44.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 617,990, May 12. Class 42.
Greenberg, Louis H., Company, New York, N. Y. Towels. Serial No. 622,651, May 12. Class 42.
Greenwald, Moe, New York, N. Y. Caps. Serial No. 633,767, May 12. Class 39.
Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. Serial No. 634,783, May 12. Class 27.
Haas, Charles J., Incorporated, Philadelphia, Pa. Chemical preparation. Serial No. 634,846, May 12. Class 6.
Hadley, Charles R., Company, Los Angeles, Calif. Binders, covers or folders, etc. Serial No. 601,723, May 12. Class 37.
Haloid Company, The, Rochester, N. Y. Electrophotographic copying machines, cameras, etc. Serial No. 638,142, May 12. Class 26.
Hartnell, Norman, Limited, London, England. Ladies' dresses, coats, suits, capes, etc. Serial No. 564,251, May 12. Class 39.
Hastings Manufacturing Company, Hastings, Mich. Piston rings. Serial No. 617,497, May 12. Class 35.
Hat Corporation of America, Norwalk, Conn. Headwear. Serial No. 620,039, May 12. Class 39.
Hearst Corporation, The, New York, N. Y. Cartoon or comic magazine. Serial No. 613,710, May 12. Class 38.
Heberlee Air-Lite, Inc., Seattle, Wash. Filled comforters and blankets. Serial No. 635,651, May 12. Class 42.
Hedwin Corporation, Baltimore, Md. Plastic drum liners and bags. Serial No. 622,597, May 12. Class 2.
Hirsch, A., Company, Chicago, Ill. Watches. Serial No. 627,390, May 12. Class 27.
Hi-Sky Products Co.: *See*—
Roth, Frank M.
Hobson, J. H., Company, Philadelphia, Pa. Dried cheese whey. Serial No. 639,048, May 12. Class 46.
Hobson, J. H., Company, Philadelphia, Pa. Nonfat dry milk solids and whole milk powder. Serial No. 639,049, May 12. Class 46.
Hoffmaster Paper Company, Inc., Oshkosh, Wis. Paper napkins. Serial No. 636,233, May 12. Class 37.
Honig Corporation, The, Los Angeles, Calif. Hair and scalp lotion. Serial No. 614,504, May 12. Class 51.
Hook-Flex Company, assignor to Hook-Flex Corporation, Chicago, Ill. Sets of hooks and eyes. Serial No. 637,588, May 12. Class 40.
Hook-Flex Corporation, assignee: *See*—
Hook-Flex Company.
House of Huston, Inc., Miami and Coral Gables, Miami, Fla. Dog leashes, choke chains, dog collars, and combs. Serial No. 637,255, May 12. Class 3.
Howard, John B., trustee of Boston Vacuum Trust, Marblehead, Mass. Conduit. Serial No. 607,429, May 12. Class 23.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Spray hose, valve and plunger leathers. Serial No. 642,649, May 12. Class 35.
Hyper-Humus Company, Bryn Mawr, Pa. Partially humified peat. Serial No. 623,959, May 12. Class 1.
Hytron Radio & Electronics Co.: *See*—
Columbia Broadcasting System, Inc.
Illinois Iron & Bolt Co., Carpentersville, Ill. Anvils. Serial No. 625,275, May 12. Class 14.
Iloca Camera: *See*—
Witt, Wilhelm.

Indestructible Pearl Bead Makers, Inc., New York, N. Y. Artificial pearls. Serial No. 631,422, May 12. Class 28.
International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros. Sofas, chairs and living-room suites. Serial No. 546,145, May 12. Class 32.
International Sport Motors, Ltd., Hoboken, N. J. Motorcycles. Serial No. 600,266, May 12. Class 19.
International Telephone and Telegraph Corporation, New York, N. Y. Telephone switching systems and apparatus therefor, telephone subscribers station apparatus, etc. Serial No. 612,077, May 12. Class 21.
Investment Casting Co., The: *See*—
Levine, Joseph.
J. P. Products Co.: *See*—
Petranek, John L.
Jackson, Byron, Co., Inc. of Indiana, Lawrenceburg, Ind., assignee of A. D. Cook Incorporated. Vane type, vertical centrifugal pumps, and parts thereof. Serial No. 567,391, May 12. Class 23.
Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. Serial No. 639,641, May 12. Class 28.
Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. Serial No. 639,644, May 12. Class 28.
Jak Visor Company, Laurelton, N. Y. Visors for automobiles. Serial No. 643,425, May 12. Class 19.
James Knights Company, The, Sandwich, Ill. Faucets and hydrants. Serial No. 628,212, May 12. Class 13.
Jantzen Knitting Mills Inc., Portland, Oreg. Swimming trunks, outer shorts, and swimming suits. Serial No. 629,897, May 12. Class 39.
Jel Sert Co., The, Chicago, Ill. Gelatin dessert, and a preparation for making puddings. Serial No. 622,074, May 12. Class 46.
Jersey Specialty Company, Inc., Little Falls, N. J. Wire products. Serial No. 632,089, May 12. Class 21.
Karpen, S., & Bros., assignee: *See*—
International Furniture Company.
Keeley, Muriel R., New York, N. Y. Sprays to raise the knap of suede, etc. Serial No. 623,838, May 12. Class 6.
Kenya Corporation, New York, N. Y. Fabrics. Serial No. 635,133, May 12. Class 42.
Kerr, Raymond W., doing business as Kerrco Prodocts, Hastings, Nebr. Window sills, casings, and trim; door jambs, etc. Serial No. 591,370, May 12. Class 12.
Kerrco Products: *See*—
Kerr, Raymond W.
Kimball, C. M., Co., Boston, Mass. Preparation for cleaning glass, porcelain, etc. Serial No. 536,403, May 12. Class 52.
King Research, Inc., Brooklyn, N. Y. Disinfectant. Serial No. 638,910, May 12. Class 6.
Kinney Manufacturing Company, Jamaica Plain, Boston, Mass. Rotary liquid pumps. Serial No. 627,069, May 12. Class 23.
Klaus, Karl, doing business as Karl Klaus Company, Glendale, Calif. Partially printed forms. Serial No. 631,624, May 12. Class 37.
Klaus, Karl, Company: *See*—
Klaus, Karl.
Krohn, Abraham Z., Brooklyn, N. Y. Surgical circumcising instruments. Serial No. 636,295, May 12. Class 44.
Lawson, F. H., Company, The, Cincinnati, Ohio. Metal trash cans. Serial No. 630,087, May 12. Class 2.
Lebow Bros, Inc., Baltimore, Md. Men's and boys' suits, coats, slacks, etc. Serial No. 636,366, May 12. Class 39.
Levine, Joseph, trading and doing business as The Investment Casting Co., Newark, N. J. Ferrous and nonferrous castings. Serial No. 634,647, May 12. Class 14.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 637,036, May 12. Class 18.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 638,727, May 12. Class 18.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 638,729, May 12. Class 18.
Lloyd Meter Manufacturing Company, Chicago, Ill. Coin operated time measuring and time controlling switches. Serial No. 635,658, May 12. Class 26.
Loamium Co. of America, Harrison, N. J. Chemical preparation. Serial No. 637,066, May 12. Class 6.
Lodge and Shipley Company, The, Cincinnati, Ohio. Machine tools. Serial No. 622,242, May 12. Class 23.
Lucky Strike Perfumeries Corporation, New York, N. Y. After shave lution, brilliantine, eau de cologne, etc. Serial No. 623,357, May 12. Class 51.
M. A. E. Co., The: *See*—
Betterly, Warren A.
Mandee Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 637,860, May 12. Class 42.
Manheim Manufacturing & Belting Company, Manheim, Pa. Power transmission belting. Serial No. 628,950, May 12. Class 35.
Marathon Corporation, Menasha, Wis. Waxed paper bags. Serial No. 639,484, May 12. Class 2.
Marathon Corporation, Menasha, Wis. Paper cartons. Serial No. 639,764, May 12. Class 2.
Marvin Canning Company, Inc., Dallas, Tex. Canned dog food. Serial No. 630,278, May 12. Class 46.
Mavest Inc., New York, N. Y. Men's suits. Serial No. 637,489, May 12. Class 39.
Mayer, William L., Detroit, Mich. Chemo-therapeutic pharmaceutical preparation. Serial No. 620,548, May 12. Class 18.
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Ottawa Chemical Company, The, Toledo, Ohio, assignor to The Essential Chemicals Co., Inc., MBwaukee, Wis. Parachlorometaxylenol (3-5-dimethyl-4-chloro-hydroxy benzene or 3,5-dimethyl-4-chloro-phenol). Serial No. 628,866, May 12. Class 6.
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Raymond, Fred L., Chicago, Ill. Thermostatically-controlled, pressure-operated instruments. Serial No. 628,507, May 12. Class 26.
Reed, Austin, Limited, London, England. Dress clothing. Serial No. 534,856, May 12. Class 39.

Cook Chemical Company, Kansas City, Mo. Insecticides, fungicides. Serial No. 633,448, May 12. Class 6.
Cook, E. K., & Co., Inc., Washington, D. C. Medicinal preparation. Serial No. 615,210, May 12. Class 18.
Corhart Refractories Company, Louisville, Ky. Refractory blocks, bricks, and bodies. Serial No. 624,396, May 12. Class 12.
Cosmotone Laboratories: *See*—
Faulkner, Henry H.
Cromwell Paper Company, The, Chicago, Ill. Embossed laminated waterproof paper. Serial No. 637,364, May 12. Class 37.
Cuesta, Rey & Co., Tampa, Fla. Cigars. Serial No. 638,135, May 12. Class 17.
Dainty Maid Shoe Company, Inc., Haverhill, Mass. Women's shoes. Serial No. 636,001, May 12. Class 39.
Dalton, Phillip P., Tampa, Fla. Artificial fishing bait. Serial No. 590,654, May 12. Class 22.
Dayton Rubber Company, The, Dayton, Ohio. Rubber and fabric vehicle tires. Serial No. 608,700, May 12. Class 35.
Dayton Rubber Company, The, Dayton, Ohio. Rubber vehicle tires. Serial No. 627,383, May 12. Class 35.
Doniger, Arthur, Paper Co., Inc., New York, N. Y. Aluminum foil. Serial No. 630,885, May 12. Class 14.
Drexel Furniture Company, Drexel, N. C. Serving cart. Serial No. 632,419, May 12. Class 32.
Drexel Furniture Company, Drexel, N. C. Bedroom and dining room furniture. Serial No. 633,722, May 12. Class 32.
Dubin, David, Co. Inc., New York, N. Y. Bridal hats and bridal veils. Serial No. 604,524, May 12. Class 39.
Duffy, Mary E., Miami, Fla. Ceramic trays and urns. Serial No. 609,235, May 12. Class 30.
Duluth Universal Milling Company, Duluth, Minn. Wheat flour. Serial No. 607,663, May 12. Class 46.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Combs. Serial No. 636,885, May 12. Class 40.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Sodium cyanide. Serial No. 641,372, May 12. Class 6.
Duskin, Morris L., doing business as Century Specialty Co., Chicago, Ill. Garment travel bags. Serial No. 638,136, May 12. Class 3.
E Z Paintr Corporation: *See*—
Nu-Enamel Corporation.
Eagle Pencil Company, New York, N. Y. Wood encased pencils. Serial No. 636,219, May 12. Class 37.
Eagle Pencil Company, New York, N. Y. Wood encased pencils. Serial No. 636,221, May 12. Class 37.
Eastern Electric, Inc., New Bedford, Mass. Thermostatically controlled instruments. Serial No. 618,630, May 12. Class 26.
Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film. Serial No. 638,409, May 12. Class 26.
Edelstein, Jerome, Inc., New York, N. Y. Fur coats, fur capes, and fur jackets. Serial No. 637,483, May 12. Class 39.
Elder Manufacturing Company, St. Louis, Mo. Piece goods. Serial No. 638,354, May 12. Class 42.
Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric resistors. Serial No. 550,670, May 12. Class 21.
Elizabeth Hat Company, The: *See*—
Neger, Sam.
Ely & Walker Dry Goods Company, St. Louis, Mo. Men's and boys' dress, sport, and work shirts. Serial No. 637,766, May 12. Class 39.
Emergency Laboratories: *See*—
Block Drug Company, Inc.
Enterprise Aluminum Company, The, Massillon, Ohio. Corn poppers. Serial No. 637,767, May 12. Class 13.
Ercona Camera Corporation, New York, N. Y. Photographic lenses. Serial No. 630,999, May 12. Class 26.
Essential Chemicals Co., Inc., The, assignee: *See*—
Ottawa Chemical Company, The.
Estarta y Eceanarro, S. A., Barrio Olaso, Guipuzcoa, Spain. Sewing machines, parts thereof, and attachments therefor. Serial No. 602,897, May 12. Class 23.
Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Kit containing various materials used for soldering aluminum cables. Serial No. 626,868, May 12. Class 50.
Evanston Stamping Company, Evanston, Ill. Metal baking sheets, baking pans, and cooking pans. Serial No. 635,752, May 12. Class 13.
Everest & Jennings, Inc., Los Angeles, Calif. Invalid wheel chairs. Serial No. 626,372, May 12. Class 44.
Fahricant, Maurice, New York, N. Y. Perfumes, toilet waters, colognes, etc. Serial No. 632,555, May 12. Class 51.
Factor, Max, & Co., Hollywood, Calif. Cosmetics. Serial No. 606,373, May 12. Class 51.
Falco Products Co., Philadelphia, Pa. Clothes drying racks. Serial No. 626,663, May 12. Class 24.
Falco Products Co., Philadelphia, Pa. Clothes drying racks. Serial No. 626,734, May 12. Class 24.
Farmcraft Feeds, Inc., Des Moines, Iowa. Vitamin mixture. Serial No. 627,935, May 22. Class 18.
Faulkner, Henry H., doing business as Cosmotone Laboratories, Los Angeles, Calif. Gray hair preparations. Serial No. 621,396, May 12. Class 51.
Feu Hermanos Responsabilidade Limitada, Portimao, Portugal. Canned sardines. Serial No. 627,057, May 12. Class 46.
Firestone Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. Serial No. 630,672, May 12. Class 35.
First Texas Chemical Manufacturing Co., Dallas, Tex. Cough sirup. Serial No. 595,131, May 12. Class 18.
Fitzsimmons, John A., doing business as Fitzsimmons Products, New York, N. Y. External veterinary liquid preparation. Serial No. 616,627, May 12. Class 18.
Fitzsimmons Products: *See*—
Fitzsimmons, John A.
Foodways, Inc., New York, N. Y. Fresh frozen fruits and vegetables, canned frozen orange juice, etc. Serial No. 627,180, May 12. Class 46.
Fox-Knapp Manufacturing Co., New York, N. Y. Men's and women's sportswear. Serial No. 542,400, May 12. Class 39.
Gates Rubber Company, The, Denver, Colo. Radiator hose. Serial No. 629,565, May 12. Class 35.
Gaylord Container Corporation, St. Louis, Mo. Paper bags and sacks, containers of all kinds, etc. Serial No. 639,424, May 12. Class 2.
Gaylord Products, Incorporated, Chicago, Ill. Bobby pins and hair pins. Serial No. 637,178, May 12. Class 40.
Geigy Company, Inc., New York, N. Y. Preparation for destroying insects and vermin. Serial No. 612,736, May 12. Class 6.
General Electric Company, Schenectady, N. Y. Insulated electric cord. Serial No. 638,299, May 12. Class 21.
Georgia Shoe Mfg. Co., Flowery Branch, Ga. Leather boots and shoes. Serial No. 608,109, May 12. Class 39.
Gerst, Arthur J., trading and doing business as Sausage Industry Suppliers Co., San Jose, Calif. Seasonings for meat products. Serial No. 632,724, May 12. Class 46.
Globe Auto Glass Co., Chicago, Ill. Safety glass. Serial No. 626,874, May 12. Class 33.
Gluck, Daniel, Woodmere, N. Y. Hypodermic syringes. Serial No. 636,475, May 12. Class 44.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 617,990, May 12. Class 42.
Greenberg, Louis H., Company, New York, N. Y. Towels. Serial No. 622,651, May 12. Class 42.
Greenwald, Moe, New York, N. Y. Caps. Serial No. 633,767, May 12. Class 39.
Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. Serial No. 634,783, May 12. Class 27.
Haas, Charles J., Incorporated, Philadelphia, Pa. Chemical preparation. Serial No. 634,846, May 12. Class 6.
Hadley, Charles R., Company, Los Angeles, Calif. Binders, covers or folders, etc. Serial No. 601,723, May 12. Class 37.
Haloid Company, The, Rochester, N. Y. Electrophotographic copying machines, cameras, etc. Serial No. 636,142, May 12. Class 20.
Hartnell, Norman, Limited, London, England. Ladies' dresses, coats, suits, capes, etc. Serial No. 564,251, May 12. Class 39.
Hastings Manufacturing Company, Hastings, Mich. Piston rings. Serial No. 617,497, May 12. Class 35.
Hat Corporation of America, Norwalk, Conn. Headwear. Serial No. 620,039, May 12. Class 39.
Hearst Corporation, The, New York, N. Y. Cartoon or comic magazine. Serial No. 613,710, May 12. Class 38.
Heberlee Air-Lite, Inc., Seattle, Wash. Filled comforters and blankets. Serial No. 635,651, May 12. Class 42.
Hedwin Corporation, Baltimore, Md. Plastic drum liners and bags. Serial No. 622,597, May 12. Class 2.
Hirsch, A., Company, Chicago, Ill. Watches. Serial No. 627,390, May 12. Class 27.
Hi-Sky Products Co.: *See*—
Roth, Frank M.
Hobson, J. H., Company, Philadelphia, Pa. Dried cheese whey. Serial No. 639,048, May 12. Class 46.
Hobson, J. H., Company, Philadelphia, Pa. Nonfat dry milk solids and whole milk powder. Serial No. 639,049, May 12. Class 46.
Hoffmaster Paper Company, Inc., Oshkosh, Wis. Paper napkins. Serial No. 636,233, May 12. Class 37.
Honig Corporation, The, Los Angeles, Calif. Hair and scalp lotion. Serial No. 614,504, May 12. Class 51.
Hook-Flex Company, assignor to Hook-Flex Corporation, Chicago, Ill. Sets of hooks and eyes. Serial No. 637,588, May 12. Class 40.
Hook-Flex Corporation, assignee: *See*—
Hook-Flex Company.
House of Huston, Inc., Miami and Coral Gables, Miami, Fla. Dog leashes, choke chains, dog collars, and combs. Serial No. 637,255, May 12. Class 3.
Howard, John B., trustee of Boston Vacuum Trust, Marblehead, Mass. Conduit. Serial No. 607,429, May 12. Class 23.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Spray hose, valve and plunger leathers. Serial No. 642,649, May 12. Class 35.
Hyper-Humus Company, Bryn Mawr, Pa. Partially humified peat. Serial No. 623,959, May 12. Class 1.
Hytron Radio & Electronics Co.: *See*—
Columbia Broadcasting System, Inc.
Illinois Iron & Bolt Co., Carpentersville, Ill. Anvils. Serial No. 625,275, May 12. Class 14.
Iloca Camera: *See*—
Witt, Wilhelm.

Indestructible Pearl Bead Makers, Inc., New York, N. Y. Artificial pearls. Serial No. 631,422, May 12. Class 28.
International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros. Sofas, chairs and living-room suites. Serial No. 546,145, May 12. Class 32.
International Sport Motors, Ltd., Hoboken, N. J. Motorcycles. Serial No. 600,266, May 12. Class 19.
International Telephone and Telegraph Corporation, New York, N. Y. Telephone switching systems and apparatus therefor, telephone subscribers station apparatus, etc. Serial No. 612,077, May 12. Class 21.
Investment Casting Co., The: *See*—
Levine, Joseph.
J. P. Products Co.: *See*—
Petranek, John L.
Jackson, Byron, Co., Inc. of Indiana, Lawrenceburg, Ind., assignee of A. D. Cook Incorporated. Vane type, vertical centrifugal pumps, and parts thereof. Serial No. 567,391, May 12. Class 23.
Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. Serial No. 639,641, May 12. Class 28.
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Jak Visor Company, Laurelton, N. Y. Visors for automobiles. Serial No. 643,425, May 12. Class 19.
James Knights Company, The, Sandwich, Ill. Faucets and hydrants. Serial No. 628,212, May 12. Class 13.
Jantzen Knitting Mills Inc., Portland, Oreg. Swimming trunks, outer shorts, and swimming suits. Serial No. 629,897, May 12. Class 39.
Jel Sert Co., The, Chicago, Ill. Gelatin dessert, and a preparation for making puddings. Serial No. 622,074, May 12. Class 46.
Jersey Specialty Company, Inc., Little Falls, N. J. Wire products. Serial No. 632,089, May 12. Class 21.
Karpen, S., & Bros., assignee: *See*—
International Furniture Company.
Keeley, Muriel R., New York, N. Y. Sprays to raise the knap of suede, etc. Serial No. 623,838, May 12. Class 6.
Kenya Corporation, New York, N. Y. Fabrics. Serial No. 635,135, May 12. Class 42.
Kerr, Raymond W., doing business as Kerrco Products, Hastings, Nebr. Window sills, casings, and trim; door jambs, etc. Serial No. 591,370, May 12. Class 12.
Kerrco Products: *See*—
Kerr, Raymond W.
Kimball, C. M., Co., Boston, Mass. Preparation for cleaning glass, porcelain, etc. Serial No. 536,403, May 12. Class 52.
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Raymond, Fred L., Chicago, Ill. Thermostatically-controlled, pressure-operated instruments. Serial No. 628,507, May 12. Class 26.
Reed, Austin, Limited, London, England. Dress clothing. Serial No. 534,856, May 12. Class 39.

Reid, Robert, Inc., Baltimore, Md. Medical and surgical supplies. Serial No. 622,409, May 12. Class 44.
Reliance Dental Mfg. Co., Chicago, Ill. Inlay pattern material. Serial No. 627,084, May 12. Class 44.
Reliance Dental Mfg. Co., Chicago, Ill. Dental resinous cement. Serial No. 634,216, May 12. Class 44.
Revlon Products Corporation, New York, N. Y. Liquid face make-up preparation. Serial No. 632,268, May 12. Class 51.
Rieser Company, Inc., The, New York, N. Y. Cleansing tissues and toilet tissues. Serial No. 637,613, May 12. Class 37.
River Plate Corporation, The, New York, N. Y. Quebracho extract. Serial No. 639,077, May 12. Class 6.
Robinson, Ted, doing business under the trade name and style of Cardinal Products, Hudson Heights, N. J. Preparation for teething pain. Serial No. 636,737, May 12. Class 18.
Rolley: *See*—
Rolley, Inc.
Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Perfume, cologne, hand cream, etc. Serial Nos. 630,954–5, May 12. Class 51.
Rossi, Al Produce Co.: *See*—
Rossi, Albert.
Rossi, Albert, doing business as Al Rossi Produce Co., Gonzales, Calif. Fresh vegetables. Serial No. 633,219, May 12. Class 46.
Roth, Frank M., doing business as Hi-Sky Products Co., Oshkosh, Nebr. Paint remover and brush softener. Serial No. 632,745, May 12. Class 52.
Rouse Lumber & Building Co., Houston, Tex. Piping, pipe fittings, valves, etc. Serial No. 619,682, May 12. Class 13.
Rubinstein, Helena, Inc., New York, N. Y. Glove holders, flower holders, combination perfume pin and flower holders, etc. Serial No. 614,722, May 12. Class 40.
Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Steel flooring. Serial No. 637,953, May 12. Class 12.
S & C Electric Company, Chicago, Ill. Electrical fuses, fuse mountings, bus supports, etc. Serial No. 613,193, May 12. Class 21.
Sakioka Farms, Los Angeles and West Los Angeles, Calif. Fresh vegetables. Serial No. 632,691, May 12. Class 46.
Sales Affiliates, Inc., New York, N. Y. Neutralizing lotion. Serial No. 623,261, May 12. Class 51.
Salude Laboratories, Inc., Brooklyn, N. Y. Dietary supplement. Serial No. 616,512, May 12. Class 18.
Sausage Industry Suppliers Co.: *See*—
Gerst, Arthur J.
Schaible Company, The, Cincinnati, Ohio. Quick opening and self closing gate valves. Serial No. 598,325, May 12. Class 13.
Schenley Laboratories, Inc., New York, N. Y. Products used as mixing ingredients or feed supplements. Serial No. 611,312, May 12. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical product. Serial No. 631,025, May 12. Class 18.
Schering Corporation, Bloomfield, N. J. Antibiotic. Serial No. 636,499, May 12. Class 18.
Schiller Laboratories, Inc., Schiller Park, Ill. Preparation to be used as a tertile softener. Serial No. 632,748, May 12. Class 6.
Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. Serial No. 637,550, May 12. Class 39.
Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. Serial No. 637,955, May 12. Class 39.
Schwarz Laboratories, Inc., New York, N. Y. Products containing metallic nucleates. Serial No. 609,701, May 12. Class 18.
Seaboard Mills, Santa Barbara, Calif. Dried beans, dried peas, rice, etc. Serial No. 564,406, May 12. Class 46.
Seating Incorporated, Minneapolis, Minn. Bleachers. Serial No. 631,442, May 12. Class 12.
See-Qual Package Corp., Brooklyn, N. Y. Plastic container trays. Serial No. 633,591, May 12. Class 2.
Sels et Produits Chimiques S. A., Brussels, Belgium. Chemical ingredient. Serial No. 625,043, May 12. Class 6.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical and medicinal goods, products, and preparations. Serial No. 626,179, May 12. Class 18.
Shaw, Henry W., doing business as Sound-Craft Systems, Pittsburgh, Pa. Portable electric paging system. Serial No. 633,883, May 12. Class 21.
Shreveport Garment Manufacturers, Shreveport, La. Men's and boys' overalls, shorts, work pants, etc. Serial No. 636,744, May 12. Class 39.
Silicote Corporation, The, Oshkosh, Wis. Lubricant and protectant. Serial No. 638,670, May 12. Class 15.
Simmons Company, New York, N. Y. Mattresses and box springs. Serial No. 639,444, May 12. Class 32.
Singer Manufacturing Company, The, Elizabeth, N. J. Electronic bonding machines. Serial No. 628,557, May 12. Class 21.
Singer Manufacturing Company, The, Elizabeth, N. J. Toy sewing machines. Serial No. 628,558, May 12. Class 22.
Singer Manufacturing Company, The, Elizabeth, N. J. Dust bags and receptacles. Serial No. 628,562, May 12. Class 2.
Singer Manufacturing Company, The, Elizabeth, N. J. Cabinets, stools, chairs, etc. Serial No. 628,572, May 12. Class 32.
Singer Manufacturing Company, The, Elizabeth, N. J. Dust bags and receptacles. Serial No. 630,156, May 12. Class 2.
Singer Manufacturing Company, The, Elizabeth, N. J. Piece goods. Serial No. 630,622, May 12. Class 42.
Singer Manufacturing Company, The, Elizabeth, N. J. Sewing thread. Serial No. 630,623, May 12. Class 43.
Singer Manufacturing Company, The, Elizabeth, N. J. Piece goods. Serial No. 636,946, May 12. Class 42.
Slumberland Products Co., Waltham, Mass. Mattresses, box springs, and headboard bed combinations. Serial Nos. 637,890–1, May 12. Class 32.
Smallman, L., & Sons, Paterson, N. J., and New York, N. Y. Billfolds, wallets, key cases and pass cases. Serial No. 636,610, May 12. Class 3.
Smith's Heating, Inc., Kinston, N. C. Oil-burning heaters. Serial No. 590,525, May 12. Class 34.
Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Medicinal product. Serial No. 614,964, May 12. Class 18.
Societe Quartz & Silice, Paris, France. Articles made of agglomerated mica with a vitreous binder and intended for electrical insulation. Serial No. 601,174, May 12. Class 21.
Sound-Craft Systems: *See*—
Shaw, Henry W.
Southern Belting Company, Atlanta, Ga. Leather and comparable straps for textile machinery. Serial No. 636,037, May 12. Class 23.
Southern Canning Company, Inc., Highlands, Tex. Dog and cat food. Serial No. 627,228, May 12. Class 46.
Spin-Dex, Inc., Skokie, Ill. Rotary card files. Serial No. 630,859, May 12. Class 32.
Stephano Brothers, Philadelphia, Pa. Cigarettes. Serial No. 633,594, May 12. Class 17.
Sterling Pulp & Paper Company, Eau Clair, Wis. Paper napkins, paper towels, toilet tissue, etc. Serial No. 637,553, May 12. Class 37.
Strickland, J., & Co., Memphis, Tenn. Hair dressing and hair lotion. Serial No. 634,167, May 12. Class 51.
Stuart, C. W., & Company, Newark, N. Y. China dishes. Serial No. 620,038, May 12. Class 30.
Suffko Tool and Die Co., Chicago, Ill. Brushes. Serial No. 623,089, May 12. Class 29.
Summit Mills Corporation, New York, N. Y. Sport shirts. Serial No. 632,856, May 12. Class 39.
Supra-Vite Corp., New York, N. Y. Vitamin and mineral preparations. Serial No. 601,286, May 12. Class 18.
Surgicon Corporation, New York, N. Y. Hospital equipment. Serial No. 625,219, May 12. Class 44.
Sutherland Paper Company, Kalamazoo, Mich. Shirt and collar protectors of cardboard. Serial No. 635,003, May 12. Class 37.
Swift & Company, Chicago, Ill. Stabilizer for ice cream and other confections. Serial No. 640,818, May 12. Class 46.
Table Art Mat Corp., Brooklyn, N. Y. Plastic-coated fabric in the nature of oiled cloth. Serial No. 625,049, May 12. Class 20.
Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 637,799, May 12. Class 42.
Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 638,224, May 12. Class 42.
Tappan Stove Company, The, Mansfield, Ohio. Gas ranges and stoves. Serial No. 631,224, May 12. Class 34.
Tavannes Watch Co., Tavannes, Switzerland. Watches, parts of watches, alarm clocks. Serial No. 634,665, May 12. Class 27.
Tennessee Products & Chemical Corporation, Nashville, Tenn. Chemical products and technical preparations. Serial No. 609,571, May 12. Class 6.
Tenny Pharmacy, Inc., New York, N. Y. Cough medicine. Serial No. 625,373, May 12. Class 18.
Tested Papers of America, Inc., Chicago, Ill. Drinking straws. Serial No. 616,525, May 12. Class 50.
Testrite Instrument Co., Inc., New York, N. Y. Metal reflectors for photographic lamps. Serial No. 612,038, May 12. Class 26.
Tidy House Paper Corp. of N. Y.: *See*—
Tidy-House Paper Products, Inc.
Tidy-House Paper Products, Inc., Brooklyn, N. Y., now by change of name Tidy House Paper Corp. of N. Y. Paper household products—namely, sandwich bags, etc. Serial No. 636,156, May 12. Class 2.
Tobin Packing Co., Inc., Rochester, N. Y., and Fort Dodge, Iowa. Meat products. Serial No. 625,496, May 12. Class 46.
Toledo Scale Company, Flemington, N. J., and Toledo, Ohio. Kitchen machines. Serial No. 636,157, May 12. Class 21.
Tomat-O-Pep Company, San Jose, Calif. Tomato drink. Serial No. 592,794, May 12. Class 46.
Turlock Co-Operative Growers, Modesto and San Francisco, Calif. Canned tomato paste. Serial No. 640,656, May 12. Class 46.
Tylac Company, Monticello, Ill. Decorative tile and mouldings. Serial No. 637,409, May 12. Class 12.
Union Fork and Hoe Company, The, Columbus, Ohio. Hand operated tools. Serial No. 638,111, May 12. Class 23.

United States Rubber Company, New York, N. Y. Thermosetting plastic material. Serial No. 635,890, May 12. Class 1.
United States Rubber Company, New York, N. Y. Hose made of rubber, etc. Serial No. 642,499, May 12. Class 35.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Empty metal containers. Serial No. 639,348, May 12. Class 2.
United States Steel Corporation: *See*—
United States Steel Company.
United States Testing Company, Inc., Hoboken, N. J. Water dispersible sheet used in effectuating dyeing or detergent operations. Serial No. 629,400, May 12. Class 6.
V. I. P. Service, Inc., New York, N. Y. Various services performed for clients. Serial No. 629,638, May 12. Class 101.
Valerie Jewelry, Inc., New York, N. Y. Pearls and costume jewelry. Serial No. 633,130, May 12. Class 28.
Victor Wood Products Co., Bangor, Mich. Hollywood bed legs. Serial No. 638,747, May 12. Class 32.
Vitro Corporation of America, New York, N. Y. Gas analysing apparatus. Serial No. 635,798, May 12. Class 26.
Vulcan Corporation, Portsmouth, Ohio. Shoe lasts. Serial No. 628,511, May 12. Class 50.
Wade, Wenger & Associates, Inc., Chicago, Ill. Cleaning compound. Serial No. 628,795, May 12. Class 52.
Walker, Russell C., Pittsburgh, Pa. Kerman rugs Serial No. 635,074, May 12. Class 42.
Wallace, R., & Sons Mantg. Co., The, Wallingford, Conn. Silver plated hollowware. Serial No. 604,502, May 12. Class 28.
Warren Belting Company, Inc., Worcester, Mass. Dressings for power and transmission belting. Serial No. 633,953, May 12. Class 6.
Warren Tool Corporation, Howland, Ohio. Hand tools. Serial No. 588,069, May 12. Class 23.
Washington Co-Operative Farmers Association, Seattle, Wash. Various products—namely, shell eggs, frozen egg whites, etc. Serial No. 636,830, May 12. Class 46.
Weevil-Cide Company, The, Kansas City, Mo. Rodenticide. Serial No. 632,187, May 12. Class 6.
Weidler Lumber Company, Inc., Chicago, Ill. Finished lumber. Serial No. 634,720, May 12. Class 12.
Wembley, Inc., New Orleans, La. Men's neckties and scarfs. Serial No. 636,619, May 12. Class 39.
Wen-Mac Corporation, Beverly Hills, Calif. Glow plug engine fuel. Serial No. 639,352, May 12. Class 6.
Western Peat Company Limited, Lulu Island, British Columbia, Canada. Horticultural peat moss. Serial No. 621,641, May 12. Class 1.
Westinghouse Electric Corporation, East Pittsburgh, Pa., and Elmira, N. Y. Electronic tubes. Serial No. 636,174, May 12. Class 21.
Whale Oil Company Incorporated, Brooklyn, N. Y. Lubricating oil. Serial No. 609,895, May 12. Class 15.
Whale Oil Company Incorporated, Brooklyn, N. Y. Lubricating oil. Serial No. 626,281, May 12. Class 15.
Whitewater Raincoat Co., Whitewater, Wis. Transparent covers. Serial No. 620,448, May 12. Class 50.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. Serial No. 637,968, May 12. Class 46.
Winco Associates, Inc., Chicago, Ill. Hair setting preparations. Serial No. 624,435, May 12. Class 51.
Wishard, Walter H., Waynesboro, Pa. Fresh apples and fresh peaches. Serial No. 638,461, May 12. Class 46.
Witt, Wilhelm, doing business as Ihoca Camera, Hamburg, Germany. Camera lenses. Serial No. 637,909, May 12. Class 26.
Wood Conversion Company, St. Paul, Minn. Light-colored coated rigid fiber insulation board. Serial No. 588,347, May 12. Class 12.
Wudel, Edmund J., doing business under the fictitious name and style of Edmund J. Wudel Mfg. Co., Los Angeles, Calif. Spark plug testing machines and combination spark plug cleaning and testing machines. Serial No. 637,899, May 12. Class 26.
Wudel, Edmund J., Mfg. Co.: *See*—
Wudel, Edmund J.
Yale & Towne Manufacturing Company, The, Stamford, Conn. Battery chargers. Serial No. 620,983, May 12. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

A/S Figfort, Figurkomfort Korsettfabrikk, Oslo, Norway. Corsets, girdles, and brassières. 574,215, May 12; Serial No. 611,553, published Feb. 17, 1953. Class 39.
Aagesen, Walter J., Anderson, Ind. Absorbent surgical pads. 574,448, May 12; Serial No. 625,088. Class 44.
Abbott Laboratories, North Chicago, Ill. Various radioactive pharmaceuticals. 574,297, May 12; Serial No. 626,015, published Feb. 3, 1953. Class 18.
Abbott Laboratories, North Chicago, Ill. Hypnotic, sedative, analgesic, and antispasmodic compound. 574,302, May 12; Serial No. 626,358, published Feb. 3, 1953. Class 18.
Abbott Laboratories, North Chicago, Ill. Plastic disposable syringe. 574,356, May 12; Serial No. 630,178, published Feb. 3, 1953. Class 44.
Abrams, Robert R., East Orange, N. J. Sound-absorbing board materials. 574,325, May 12; Serial No. 628,182, published Feb. 17, 1953. Class 12.
Acme Appliance Manufacturing Co., Pasadena, Calif. Metal trackways for sliding doors. 574,457, May 12; Serial No. 627,857. Class 13.
Aircraft Armaments, Inc., Baltimore, Md. Locking latches and buckles. 574,368, May 12; Serial No. 631,592, published Feb. 17, 1953. Class 25.
Aldens, Inc., Chicago, Ill. Automobile tires and inner tubes. 574,471, May 12; Serial No. 642,120. Class 35.
Allen Products Corporation, Detroit, Mich. Water-proof sealing material in the nature of cement. 574,461, May 12; Serial No. 629,925. Class 5.
Altman, B., & Co.: *See*—
Wycombe, Meyer, Inc.
American Bemberg Corporation, assignee: *See*—
I. P. Bemberg Aktiengesellschaft.
American Bleached Goods Company, Inc., New York, N. Y. Cotton and rayon piece goods. 574,443, May 12; Serial No. 621,853. Class 42.
American Brake Shoe Company, New York, N. Y. Infra-red oven. 574,426, May 12; Serial No. 599,478. Class 21.
American Crayon Company, The, Sandusky, Ohio. Crayons. 574,468, May 12; Serial No. 636,325. Class 37.
American Cyanamid Company, New York, N. Y. Sedative. 574,382, May 12; Serial No. 632,709, published Jan. 20, 1953. Class 18.
American Enka Corporation, Asheville, to American Enka Corporation, Enka, N. C. Rayon yarns. 306,191, renewed Sept. 12, 1953. O. G. May 12. Class 43.
American Fiber-Velope Mfg. Co., Philadelphia, Pa. Expanding envelopes and file folders, file folders, pocket file folders, etc. 574,280, May 12; Serial No. 624,625, published Feb. 10, 1953. Class 37.
American Home Products Corporation, assignee: *See*—
Wyeth Incorporated.
American Metal Specialties Corporation, Hatboro, Pa. Child's toy. 574,467, May 12; Serial No. 634,621. Class 22.
American Shuffleboard Company, Union City, N. J. Shuffleboards. 574,462, May 12; Serial No. 630,373. Class 22.
Anchor Hocking Glass Corporation, Lancaster, Ohio. Glassware. 574,148, May 12; Serial No. 551,603, published Feb. 3, 1953. Class 33.
Anchor Hocking Glass Corporation, Lancaster, Ohio. Glass tableware. 574,174, May 12; Serial No. 592,117, published Feb. 3, 1953. Class 33.
Anderson, Miller & Poston Mfg. Co., Spokane, Wash. Tubular pipes and pipe fittings. 574,442, May 12; Serial No. 621,121. Class 13.
Anre: *See*—
Koenig, Harry D.
Armour and Company, Chicago, Ill. Frozen beef steaks. 574,192, May 12; Serial No. 603,277, published Feb. 10, 1953. Class 46.
Armstrong Paint & Varnish Works, Chicago, Ill. Glazier's putty, asphalt, sound deadener. 574,155, May 12; Serial No. 558,775, published Jan. 13, 1953. Class 12.
Artlac Inc., New York, N. Y. Simulated pearls and ornaments. 574,377, May 12; Serial No. 632,462, published Feb. 10, 1953. Class 28.
Asbestolith Manufacturing Corporation, Brooklyn, N. Y. Asphalt base composition. 574,256, May 12; Serial No. 621,437, published Feb. 10, 1953. Class 1.
Ashland Oil & Refining Company, Ashland, Ky. Gasoline. 574,318, May 12; Serial No. 627,311, published Feb. 3, 1953. Class 15.
Association of the Junior Leagues of America, Inc., New York, N. Y. Magazines. 328,331, Sept. 24, 1935. Republished May 12. Class 38.
Atlantic Sponge & Chamois Corporation, New York, N. Y. Chamois. 574,294–5, May 12; Serial Nos. 625,573–4, published Feb. 10, 1953. Class 1.
Attapulgus Clay Company, Philadelphia, Pa., assignor, by mesne assignments, to Minerals Separation North American Corporation, Lakeland, Fla. Fuller's earth. 574,360, May 12; Serial No. 630,660, published Feb. 10, 1953. Class 1.
Automatic Switch Company, Orange, N. J. Magnet or solenoid operated valves. 236,629, Dec. 20, 1927. Republished May 12. Class 21.
Aviation Developments Limited, London, England. Riveting tools. 574,234, May 12; Serial No. 616,893, published Dec. 30, 1952. Class 23.
Ayer Company, The, Lowell, Mass., to Whitehall Pharmacal Company, New York, N. Y. Medicinal ointment. 302,546, renewed Apr. 25, 1953. O. G. May 12. Class 18.

Baker Castor Oil Company, The, Jersey City, N. J. Castor oil, which is used as a dielectric in electrical equipment. 574,258, May 12; Serial No. 621,612, published Feb. 17, 1953. Class 21.

Baray Pharmacal Corporation, Brooklyn, N. Y. Tablets taken internally. 569,896, Feb. 3, 1953. Corrected. O. G. May 12. Class 18.

Barker, Moore & Mein Company, Philadelphia, Pa. Growth stimulator for poultry and a preventive and control of cecal (bloody) coccidiosis in poultry. 574,249, May 12; Serial No. 620,909, published Feb. 10, 1953. Class 18.

Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 304,486, renewed July 11, 1953. O. G. May 12. Class 17.

Beaunit Mills, Inc.: *See*—
I. P. Bemberg Aktiengesellschaft.

Bedker, Leo W., doing business as Salvo Tool & Engineering Co., Roseville, Mich. Rolls for forming threads, oiling grooves or the like, and holders and adaptors for such rolls, etc. 574,168, May 12; Serial No. 588,124, published Feb. 3, 1953. Class 23.

Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. 574,464, May 12; Serial No. 633,707. Class 4.

Berry Asphalt Company, Chicago, Ill., and Magnolia, Ark. Fine aggregate coated with chemically treated asphalt. 574,321, May 12; Serial No. 627,620, published Feb. 17, 1953. Class 12.

Bestile Manufacturing Company, Ontario, Calif. Inside plastic wall tile. 574,274, May 12; Serial No. 623,532, published Jan. 13, 1953. Class 12.

Blair, J. C., Company, Huntingdon, Pa., to Western Tablet & Stationery Corporation, Dayton, Ohio. Paper, drawing-paper, pencil-paper, etc. 92,520, re-renewed July 15, 1953. O. G. May 12. Class 37.

Blair, J. C., Company, Huntingdon, Pa., to Western Tablet & Stationery Corporation, Dayton, Ohio. Paper, drawing-paper, pencil- paper, etc. 92,522–3, re-renewed July 15, 1953. O. G. May 12. Class 37.

Blair, J. C., Company, Huntingdon, Pa., to Western Tablet & Stationery Corporation, Dayton, Ohio. Paper, drawing-paper, pencil-paper, etc. 92,626, re-renewed July 22, 1953. O. G. May 12. Class 37.

Bond, Jack, assignor to Portion Pack, Inc., Seattle, Wash. Ice cream, ice cream sundaes, and ice cream cones. 574,282, May 12; Serial No. 624,674, published Feb. 10, 1953. Class 46.

Bond, Jack, assignor to Portion Pack, Inc., Seattle, Wash. Ice cream, ice cream sundaes, and ice cream cones. 574,283, May 12; Serial No. 624,676, published Feb. 10, 1953. Class 46.

Boots Pure Drug Company Limited, Nottingham, England. Thiacetazone product prepared for use in medicine and pharmacy. 574,207, May 12; Serial No. 610,409, published Jan. 27, 1953. Class 18.

Borden Company, The: *See*—
Georgia-Carolina Dairies.

Borg-Warner Corporation, Chicago, Ill. Clutch assemblies, clutch driven discs, multiple disc clutches, etc. 574,225–6, May 12; Serial Nos. 615,684–5, published Jan. 20, 1953. Class 23.

Bowman Brothers Drug Co., The, Canton, Ohio. Medicinal and pharmaceutical preparations. 574,405, May 12; Serial No. 637,424, published Feb. 10, 1953. Class 18.

Bradford, Elva H., doing business as Presto Mange Remedy Co., Oklahoma City, Okla. Remedy used to cure animal sarcoptic mange. 574,370, May 12; Serial No. 631,964, published Feb. 10, 1953. Class 18.

Brill, H. C., Company, Inc., Newark, N. J. Food products. 574,214, May 12; Serial No. 611,120, published Feb. 10, 1953. Class 46.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin derivative. 574,299, May 12; Serial No. 626,306, published Feb. 10, 1953. Class 18.

British Bewoid Company Limited, London, England. Resinous and animal sizes, emulsions of resinous oleaginous, fatty, and waxy paper and textile sizing agents, etc. 296,948, renewed Aug. 30, 1952. O. G. May 12. Class 6.

Brooks Appliance Company, Inc.: *See*—
Brooks Rupture Appliance Co.

Brooks, J. W., & Co., Incorporated, Portland, Maine, to Sea Breese Laboratories, Inc., Pittsburgh, Pa. Lotion for treating the skin. 92,041, re-renewed June 17, 1953. O. G. May 12. Class 18.

Brooks Rupture Appliance Co., to Brooks Appliance Company, Inc., Marshall, Mich. Rupture appliances. 89,337, re-renewed Dec. 10, 1952. O. G. May 12. Class 44.

Brown, R. J., Company, The, St. Louis, Mo. Naphthas. 574,314, May 12; Serial No. 626,781, published Feb. 17, 1953. Class 6.

Browne, E. T., Drug Company Inc., New York, N. Y. Medicinal and toilet soap. 305,091, renewed Aug. 1, 1953. O. G. May 12. Class 52.

Bruder, M. A., & Sons, Incorporated, Philadelphia, Pa. Plywood primer and sealer. 574,221, May 12; Serial No. 614,286, published Feb. 10, 1953. Class 16.

Burgess Battery Company, Freeport, Ill. Electric dry batteries. 574,449, May 12; Serial No. 625,189. Class 21.

Burke, Edward, North Hollywood, Calif. Screw drivers. 574,450, May 12; Serial No. 625,398. Class 23.

Burkett, J. M., Mfg. Co.: *See*—
Burkett, James M.

Burkett, James M., doing business as J. M. Burkett Mfg. Co., Charleston, S. C. Power lawn mowers. 574,465, May 12; Serial No. 633,752. Class 23.

Burton-Edward Company, Oklahoma City, Okla. Vitamin preparation. 574,342, May 12; Serial No. 629,282, published Feb. 3, 1953. Class 18.

C. Schous Fabriker A/S, Copenhagen, Denmark. Grooved phonograph records and non-electrical and non-magnetized recording wire and recording tape, etc. 574,194, May 12; Serial No. 604,335, published Feb. 17, 1953. Class 36.

Calico Center, Inc., Boynton Beach, Fla. Rugs and carpets. 574,455, May 12; Serial No. 626,978. Class 42.

Callaway Mills Company, La Grange, Ga. Textile carpets and rugs. 574,353, May 12; Serial No. 629,932, published Feb. 17, 1953. Class 42.

Calvital Company, Inc., Mount Vernon, N. Y. Antiseptic baby cream. 574,344, May 12; Serial No. 629,422, published Feb. 3, 1953. Class 18.

Cambrifex Corporation, The, Lawrence, Mass. Thin gauge plastic sheeting. 574,383, May 12; Serial No. 632,715, published Feb. 10, 1953. Class 1.

Cameo Curtains, Inc., New York, N. Y. Window curtains. 574,445, May 12; Serial No. 622,740. Class 42.

Cameron, Wm., & Co., doing business under the name Ideal Company, Waco, Tex. Assembled door units having component parts. 574,293, May 12; Serial No. 625,332, published Jan. 20, 1953. Class 12.

Cappellino, Francesco, & Sons, Rochester, N. Y. Salad oil. 364,300, Jan. 24, 1939. Republished May 12. Class 46.

Carborundum Company, The, Niagara Falls, N. Y. Thermal insulation. 574,223, May 12; Serial No. 615,478, published Jan. 13, 1953. Class 12.

Cargill, Incorporated, assignee of Falk & Company, Minneapolis, Minn. Linseed oil for use in paints and as an ingredient of paints and other protective coatings. 574,206, May 12; Serial No. 609,639, published Feb. 10, 1953. Class 16.

Carolyn Fashions, Inc.: *See*—
National Modes, Inc.

Cemac Laboratories, Inc., Detroit, Mich. Enteric coated tablet. 574,279, May 12; Serial No. 624,525, published Jan. 27, 1953. Class 18.

Central Scientific Company, Chicago, Ill. Laboratory burners. 303,752, renewed June 6, 1953. O. G. May 12. Class 34.

Cesco, San Francisco, Calif. Magnetic separator for conduits. 574,239, May 12; Serial No. 618,840, published Feb. 17, 1953. Class 21.

Champion Paper and Fibre Company, The, Hamilton, Ohio. Box cover paper. 574,352, May 12; Serial No. 629,839, published Feb. 10, 1953. Class 37.

Chapel Records: *See*—
Pacific Union Conference of Seventh-Day Adventists.

Chartier, C. C., Chicago, Ill. Waterproofing and finishing compound. 574,167, May 12; Serial No. 582,820, published Feb. 10, 1953. Class 16.

Chatfield & Woods Sack Company, The, Cincinnati, Ohio. Paper sacks. 571,338, Mar. 3, 1953. Corrected. O. G. May 12. Class 2.

Chatfield & Woods Sack Company, The, Cincinnati, Ohio. Paper sacks. 571,340, Mar. 3, 1953. Corrected. O. G. May 12. Class 2.

Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Saponified polyvinyl acetate. 574,389, May 12; Serial No. 633,821, published Feb. 17, 1953. Class 6.

Chesler, J., & Sons, Inc., Brooklyn, N. Y. Locks. 574,425, May 12; Serial No. 593,974. Class 25.

Chiclecraft, Inc.: *See*—
Private Brands, Inc.

Cisco-California, Inc.: *See*—
McKeever, T. D.

Cities Service Oil Company, Bartlesville, Okla. Petroleum oil compositions. 574,319, May 12; Serial No. 627,497, published Feb. 3, 1953. Class 15.

Clicquot Club Company, Millis, Mass. Malt-like soft drinks and carbonated waters. 574,267, May 12; Serial No. 622,881, published Feb. 17, 1953. Class 45.

Coble Dairy Products, Inc., Lexington, N. C. Confectionery. 574,305, May 12; Serial No. 626,608, published Feb. 10, 1953. Class 46.

Coe Laboratories, Inc., Chicago, Ill. Wire composed of an alloy of precious metals for dental purposes. 303,606–7, renewed June 6, 1953. O. G. May 12. Class 44.

Coe Laboratories, Inc., Chicago, Ill. Wire composed of an alloy of precious metals for dental purposes. 303,669, renewed June 6, 1953. O. G. May 12. Class 44.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Laundry and toilet soap. 304,701, renewed July 18, 1953. O. G. May 12. Class 52.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 304,891, renewed July 18, 1953. O. G. May 12. Class 52.

Collins, Ashton B., Birmingham, Ala., to A. B. Collins, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Mats, electrotypes, stereotypes, etc. 302,093, renewed Mar. 28, 1953. O. G. May 12. Class 50.

Collord, Incorporated, Detroit, Mich. Boot-like lubricant seals. 574,459, May 12; Serial No. 629,090. Class 35.

Commercial Solvents Corporation, New York, N. Y. Vitamin concentrates. 574,230, May 12; Serial No. 616,366, published Jan. 20, 1953. Class 18.

Concord Watch Co., Inc., New York, N. Y. Watches and clocks. 574,396, May 12; Serial No. 634,521, published Feb. 3, 1953. Class 27.

Consolidated Mining and Smelting Company of Canada, Limited, The, Trail, British Columbia, to The Consolidated Mining and Smelting Company of Canada Limited, Montreal, Quebec, and Trail, British Columbia, Canada. Chemical fertilizer. 299,311, renewed Nov. 29, 1952. O. G. May 12. Class 10.

Continental Silver Co. Inc., Brooklyn, N. Y. Electric percolators. 574,422, May 12; Serial No. 353,464. Class 21.

Convoy, Incorporated, Canton, Ohio. Corrugated paper in sheet form. 574,190, May 12; Serial No. 601,820, published Feb. 17, 1953. Class 12.

Cops Company, The: *See*—
Dacus, N. E.

Corn Products Refining Company, New York, N. Y. Salad and cooking oil. 303,300, renewed May 23, 1953. O. G. May 12. Class 46.

Coro, Inc., New York, N. Y. Necklaces, bracelets not including watches, earrings, etc. 574,315, May 12; Serial No. 626,860, published Feb. 3, 1953. Class 28.

Crafton Mutual Orchards, Mentone and Crafton, by Crafton Orange Growers Association, Mentone, Calif. Fresh citrus fruit. 333,695, Mar. 31, 1936. Republished May 12. Class 46.

Crafton Mutual Orchards, by Crafton Orange Growers Association, Mentone, Calif. Fresh citrus fruit. 350,047, Sept. 14, 1937. Republished May 12. Class 46.

Crafton Orange Growers Association: *See*—
Crafton Mutual Orchards.

Creco Company, Inc., Long Island City, N. Y. Floor, furniture, and automobile waxes. 301,886, renewed Mar. 21, 1953. O. G. May 12. Class 4.

Creco Company, Inc., Long Island City, N. Y. Paper towels, toilet papers. 302,375, renewed Apr. 18, 1953. O. G. May 12. Class 37.

Crown Fabrics Corporation, New York, N. Y. Textile fabrics. 574,456, May 12; Serial No. 627,177. Class 42.

Dacus, N. E., doing business under the name The Cops Company, Portageville, Mo. Analgesic and sedative tablets. 574,320, May 12; Serial No. 627,558, published Feb. 17, 1953. Class 18.

Dahlberg, Company, The, Minneapolis, Minn. Electronic hearing aids. 574,463, May 12; Serial No. 633,534. Class 44.

Dan River Mills, Incorporated, Danville, Va. Bed sheets, textile sheeting, pillow cases, etc. 574,260–1, May 12; Serial Nos. 621,953–4, published Feb. 10, 1953. Class 42.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 574,403, May 12; Serial No. 630,118, published Feb. 17, 1953. Class 42.

Dannen Mills, Inc., St. Joseph, Mo. Vitamin and antibiotic enriched hog feed supplement. 574,237, May 12; Serial No. 617,603, published Jan. 20, 1953. Class 18.

Daroff, H., & Sons, Inc., Philadelphia, Pa. Men's suits. 304,925–6, renewed July 25, 1953. O. G. May 12. Class 39.

Darrell-Dillon Company, Hampton, Iowa. Baler twine and binder twine. 574,363, May 12; Serial No. 631,095, published Feb. 17, 1953. Class 7.

Daryl Dress Company, St. Louis, Mo. Women's and misses' skirts. 574,190, May 12; Serial No. 607,122, published Feb. 10, 1953. Class 39.

Deere & Company, Moline, Ill. Cultivators, harrows, mowers, etc. 91,839, re-renewed June 3, 1953. O. G. May 12. Class 23.

Deere & Company, Moline, Ill. Plows, cultivators, harrows, etc. 91,860–1, re-renewed June 3, 1953. O. G. May 12. Class 23.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 574,278, May 12; Serial No. 624,471, published Feb. 17, 1953. Class 42.

De Giorgi, Joseph H., Syracuse, N. Y. Pharmaceutical preparation. 305,000, renewed July 25, 1953. O. G. May 12. Class 18.

De Giorgi, Joseph H., Syracuse, N. Y. Pharmaceutical preparation. 305,012, renewed July 25, 1953. O. G. May 12. Class 18.

De Laval Separator Company, The, Poughkeepsie, N. Y. Milking machines, teat cups, and parts thereof. 574,331, May 12; Serial No. 628,523, published Feb. 3, 1953. Class 23.

Delsey Distributors, Dearborn, Mich. Food product. 574,309–10, May 12; Serial Nos. 626,661–2, published Feb. 10, 1953. Class 46.

Denham, Pauline, Yarns, Petaluma, Calif. Knitting yarn. 574,359, May 12; Serial No. 630,388, published Feb. 10, 1953. Class 43.

De Roy Manufacturing Co., South Gate, Calif. Lids for open cans of foods. 574,228, May 12; Serial No. 616,084, published Feb. 3, 1953. Class 50.

Devine, James H., Washington, D. C. Bolts. 574,458, May 12; Serial No. 628,524. Class 13.

Dorman Farms Co., by Keith Mets, Grower and Shipper, Holtville, Calif. Fresh vegetables and melons. 375,188, Feb. 13, 1940. Republished May 12. Class 46.

Drug Packaging, Inc., Pittsburgh, Pa. Dietary supplement containing vitamins and minerals and other food elements. 574,435, May 12; Serial No. 614,931. Class 18.

Dulane, Inc., River Grove, Ill. Electrically heated butter warmers. 574,432, May 12; Serial No. 610,205. Class 21.

Du Mont, Allen B., Laboratories, Inc., Clifton, N. J. Radio and television broadcasting service. 574,420, May 12; Serial No. 626,498, published Feb. 17, 1953. Class 104.

Dunn, W. E., Manufacturing Company, Holland, Mich. Concrete roofing tile. 574,213, May 12; Serial No. 611,025, published Feb. 17, 1953. Class 12.

Durlin Co., Newark, N. J. Sheets of synthetic plastic materials. 574,349, May 12; Serial No. 629,781, published Feb. 10, 1953. Class 1.

Dustite Products Company: *See*—
Stremmel, William G.

E. L. M. Feed Stores: *See*—
E. L. M. Stores.

E. L. M. Stores, also doing business as E. L. M. Feed Stores, Greencastle, Pa. Supplement to stock feed. 574,178, May 12; Serial No. 597,436, published Dec. 9, 1952. Class 18.

Eagle-Ottawa Leather Company: *See*—
Eagle Ottawa Leather Company.

Eagle Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich., to Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 303,444, renewed May 23, 1953. O. G. May 12. Class 1.

Eagle Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich, to Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 303,447, renewed May 23, 1953. O. G. May 12. Class 1.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vitamin compounds and vitamin preparations. 574,245, May 12; Serial No. 620,405, published Jan. 20, 1953. Class 18.

Edgar Products, Brooklyn, N. Y. Hair treating article. 574,364, May 12; Serial No. 631,152, published Jan. 20, 1953. Class 51.

Edison Textiles, Inc., Edison, Ga. Girls' and misses' panties, slips, gowns, etc. 574,332, May 12; Serial No. 628,682, published Feb. 17, 1953. Class 39.

Edro Corporation, The, New Britain, Conn. Automobile windshield anti-headlight-glare shields. 574,423, May 12; Serial No. 553,829. Class 19.

Einstein, J., Company: *See*—
Einstein, Jack.

Einstein, Jack, doing business as J. Einstein Company, Forest Hills, N. Y. pH testing paper. 574,281, May 12; Serial No. 624,637, published Feb. 10, 1953. Class 37.

Elastic Stop Nut Corporation of America, Union, N. J. Lock nuts. 574,202, May 12; Serial No. 608,346, published Feb. 17, 1953. Class 13.

Elraco Engineering Company, Hoboken, N. J. Protective plastic paint. 574,263, May 12; Serial No. 622,384, published Feb. 17, 1953. Class 16.

Emge Packing Company, Inc.: *See*—
Hughes-Curry Packing Co.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 301,751, renewed Mar. 14, 1953. O. G. May 12. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Insecticides. 301,940, renewed Mar. 21, 1953. O. G. May 12. Class 6.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 302,121, renewed Mar. 28, 1953. O. G. May 12. Class 22.

Erie Resistor Corporation, Erie, Pa. Electrical condensers and resistors. 574,330, May 12; Serial No. 628,350, published Feb. 10, 1953. Class 21.

Essential Chemicals Co., Milwaukee, Wis. Combination soap and synthetic washing powder. 574,163, May 12; Serial No. 573,872, published Feb. 17, 1953. Class 52.

F. & M. Importing Co. Inc., Los Angeles, Calif. Canned fish, canned fruits, canned vegetables, etc. 300,713, renewed Feb. 7, 1953. O. G. May 12. Class 46.

Falk & Company: *See*—
Cargill, Incorporated.

Federated Department Stores, Inc., Cincinnati, Ohio. Face and dusting powders, dry and cream rouges, lipsticks, etc. 574,286, May 12; Serial No. 624,879, published Jan. 13, 1953. Class 51.

Finch, Joseph S., and Company, assignee: *See*—
United Distillers (of America) Ltd.

Flavor Corporation of America, Chicago, Ill. Flavoring extracts. 574,341, May 12; Serial No. 629,160, published Jan. 13, 1953. Class 46.

Flintkote Company, The: *See*—
Pioneer Paper Company.

Flintkote Company, The, New York, N. Y. Roofing shingles. 574,306, May 12; Serial No. 626,623, published Jan. 20, 1953. Class 12.

Flower-Maid Bakery Products, Inc., Lexington, Ky. Doughnuts and glazed doughnut twists. 574,430, May 12; Serial No. 608,340. Class 46.

Foster Lumber Company, Kansas City, Mo. Plastic roof cement; cold process sealer; caulking compound; etc. 574,205, May 12; Serial No. 609,236, published Jan. 13, 1953. Class 12.

"4711" Limited: *See*—
Mülhens, Ferd, Inc.

Fox, Emmett L., Brooks, W. Va. Chemical preparation. 574,257, May 12; Serial No. 621,458, published Feb. 17, 1953. Class 6.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 574,469–70, May 12; Serial Nos. 638,254–5. Class 42.

Gaudin, Dr. Olivier, Paris, France. Analgesic balm. 574,166, May 12; Serial No. 581,764, published Jan. 13, 1953. Class 18.

Geigy Company, Inc., New York, N. Y. Dyes and chemicals. 304,961, renewed July 25, 1953. O. G. May 12. Class 6.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 574,391, May 12; Serial No. 634,043, published Feb. 3, 1953. Class 28.

General Electric Company, Schenectady, N. Y. Diagnostic opaquing preparation. 574,410, May 12; Serial No. 638,182, published Feb. 10, 1953. Class 18.

General Glaze Corporation, Baltimore, Md. Molding clay. 574,337, May 12; Serial No. 629,015, published Feb. 3, 1953. Class 1.

General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. 574,311, May 12; Serial No. 626,668, published Feb. 17, 1953. Class 35.

Genet, Theodore: *See*—
(Smith), Eugenia Smetisko.

Georgia-Carolina Dairies, Augusta, Ga., to The Borden Company, New York, N. Y. Frozen confections. 300,962, renewed Feb. 14, 1953. O. G. May 12. Class 46.

Gerts Lumbard & Co., Chicago, Ill. Paint brushes. 574,375, May 12; Serial No. 632, 369, published Feb. 17, 1953. Class 29.

Gillette Company, The: *See*—
Gillette Safety Razor Company.
Kirstein, Estelle A.

Gillette Company, The, assignee: *See*—
Northern Laboratories.

Gillette Safety Razor Company, Boston, Mass., now by change of name The Gillette Company. Children's home permanent hair waving kits. 574,276, May 12; Serial No. 624,083, published Feb. 17, 1953. Class 51.

Gillon, John, & Co. Limited, Glasgow, Scotland, Whisky. 303,266, renewed May 16, 1953. O. G. May 12. Class 49.

Glensder Textile Corp., New York, N. Y. Scarfs and kerchiefs. 574,347, May 12; Serial No. 629,689, published Feb. 10, 1953. Class 39.

Glessner Company, The, doing business as Lab-Tabs Co., Findlay, Ohio. Tablets for the treatment of constipation. 574,429, May 12; Serial No. 607,497. Class 18.

Goodrich, B. F., Company, The, to The B. F. Goodrich Company, Akron, Ohio. Hose, made wholly or partly of rubber, etc. 90,602, re-renewed Mar. 18, 1953. O. G. May 12. Class 35.

Gowns by Priscilla of Boston, Inc., Boston, Mass. Bridal gowns and evening gowns. 574,193, May 12; Serial No. 603,922, published Mar. 4, 1952. Class 39.

Gramercy Records, Inc., New York, N. Y. Grooved phonograph records. 574,407, May 12; Serial No. 637,708, published Feb. 10, 1953. Class 36.

Grandma Moses Properties, Inc., New York, N. Y. Chinaware. 574,307, May 12; Serial No. 626,625, published Feb. 3, 1953. Class 30.

Grant, William, & Sons Limited, Glasgow and Dufftown, Scotland. Scotch whisky. 574,152, May 12; Serial No. 557,523, published Feb. 17, 1953. Class 49.

Griffith Laboratories, Inc., The, Chicago, Ill. Alkaline non-corrosive detergent chemical composition. 350,537, Sept. 28, 1937. Republished May 12. Class 52.

Griffith Laboratories, Inc., The, Chicago, Ill. Chemical germicidal cleanser, antiseptic, and deodorant. 350,750, Oct. 5, 1937. Republished May 12. Class 52.

Griffith Laboratories, Inc., The, Chicago, Ill. Pump. 373,327, Dec. 5, 1939. Republished May 12. Class 23.

Griffith Laboratories, Inc., The, Chicago, Ill. Powdered emulsifying composition for emulsifying fats into food products. 376,205, Mar. 12, 1940. Republished May 12. Class 46.

Grissmer, Earl, Co., Indianapolis, Ind. Painted wall and woodwork cleaner. 574,229, May 12; Serial No. 616,206, published Feb. 17, 1953. Class 52.

Grissol Bread Specialties, Ltd., The, Montreal, Quebec, Canada. Bakery products. 574,271, May 12; Serial No. 623,050, published Feb. 17, 1953. Class 46.

Hafner Fabrics Corporation, New York, N. Y. Textile fabrics. 574,277, May 12; Serial No. 624,232, published Feb. 17, 1953. Class 42.

Handley, W. A., Manufacturing Company, The, Roanoke, Ala. Cotton duck. 574,397, May 12; Serial No. 634,592, published Feb. 17, 1953. Class 42.

Hannah Laboratories, Inc., Monterey, Calif. Emollient cream. 574,361, May 12; Serial No. 630,931, published Jan. 20, 1953. Class 18.

Haskelite Manufacturing Corporation, Grand Rapids, Mich. Construction materials. 574,183, May 12; Serial No. 599,431, published Feb. 17, 1953. Class 12.

Haskell, Charles C., & Co., Inc.: *See*—
Wilber Co, Inc.

Haskell, Charles C., & Co., Inc., Richmond, Va. Sedative-hypnotic pharmaceutical preparation. 347,618, June 29, 1937. Republished May 12. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Analgesic-antipyretic pharmaceutical preparation. 348,498, July 27, 1937. Republished May 12. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Anesthetic ointment. 352,294, Nov. 23, 1937. Republished May 12. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Pharmaceutical preparation. 353,588, Jan. 11, 1938. Republished May 12. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Pharmaceutical preparation. 363,165, Dec. 13, 1938. Republished May 12. Class 18.

Haythornthwaite & Sons Limited: *See*—
Haythornthwaite & Sons, Limited.

Haythornthwaite & Sons, Limited, Brierfield, to Haythornthwaite & Sons Limited, Burnley, England. Piece goods. 303,343, renewed May 23, 1953. O. G. May 12. Class 42.

Heap, Roger A. B., Lyme, Conn. Telephone appliance. 574,433, May 12; Serial No. 611,423. Class 21.

Hill, Fred, Packing Company, also doing business under the name Ralph Sechrest, Redlands, Calif. Fresh citrus fruits. 574,437, May 12; Serial No. 617,861. Class 46.

Hi-Lo Equipment Company, Omaha, Nebr. Farm machinery. 574,146, May 12; Serial No. 532,932, published Feb. 17, 1953. Class 23.

Hospital Equipment Corporation, New York, N. Y. Baby identification beads and rubber sheetings. 574,243, May 12; Serial No. 619,835, published Feb. 17, 1953. Class 50.

House for Men, Inc.: *See*—
Lavin, Esther.

House of Twain, Inc.: *See*—
Lovely Lady, Inc.

Howell Manufacturing Company, Philadelphia, Pa. Doors. 574,224, May 12; Serial No. 615,555, published Feb. 17, 1953. Class 12.

Hudnut, Richard, to Richard Hudnut, New York, N. Y. Perfumes. 30,745, re-renewed Feb. 3, 1953. O. G. May 12. Class 51.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Multiple nozzle attachment. 574,431, May 12; Serial No. 610,071. Class 13.

Hughes-Curry Packing Co., Anderson, to Emge Packing Company, Inc., Fort Branch, Ind. Hams. 302,654, renewed Apr. 25, 1953. O. G. May 12. Class 46.

Hush Company: *See*—
Kirstein, Estelle A.

Huston, Tom, Corporation, to Tom Huston Peanut Company, Columbus, Ga. Candy. 303,301, renewed May 23, 1953. O. G. May 12. Class 46.

Huston, Tom, Peanut Company: *See*—
Huston, Tom, Corporation.

Hyde, John B., Marshall, Tex. Solvents used in dry cleaning. 574,322, May 12; Serial No. 627,883, published Feb. 10, 1953. Class 52.

I. P. Bemberg Aktiengesellschaft, Wuppertal Oberbarmen, Germany, assignor to American Bemberg Corporation, to Beaunit Mills, Inc., New York, N. Y. Piece goods. 300,270, renewed Jan. 10, 1953. O. G. May 12. Class 42.

Ideal Company: *See*—
Cameron, Wm., & Co.

Illinois Clay Products Company, Joliet, Ill. Plastic clay. 574,241, May 12; Serial No. 619,510, published Feb. 10, 1953. Class 1.

Imbs, J. F., Milling Co.: *See*—
Imbs Milling Company.

Imbs Milling Company, St. Louis, Mo., and Belleville, Ill., to J. F. Imbs Milling Co., St. Louis, Mo. Wheat flour. 90,993, re-renewed Apr. 8, 1953. O. G. May 12. Class 46.

Imperial Knife Company, Inc., Providence, R. I. Flatware of base metal. 574,454, May 12; Serial No. 627,135. Class 23.

Industrial Research, Inc., Miami, Fla. Catalyst battery caps for electrical storage batteries. 574,262, May 12; Serial No. 621,963, published Feb. 10, 1953. Class 21.

International Glass Fibres Corporation, Baltimore, Md. Construction material. 574,255, May 12; Serial No. 621,406, published Feb. 17, 1953. Class 12.

International Milling Company: *See*—
Shellabarger Mill & Elevator Company.
Wells Flour Milling Company.

International Salt Company, Scranton, Pa. Salt blocks. 574,438, May 12; Serial No. 618,454. Class 6.

Iris Edwards, Inc., New York, N. Y. Combination hair comb and hair brush. 574,427, May 12; Serial No. 603,618. Class 40.

Jacob's Creek Flagstone Company, Inc., Mount Gilead, N. C. Finished flagstone and building stone. 574,329, May 12; Serial No. 628,341, published Jan. 20, 1953. Class 12.

Jacoby, George W., Jr., doing business as Lee Manufacturing Co., Wooster, Ohio. Hypodermic needles. 574,371, May 12; Serial No. 632,088, published Feb. 3, 1953. Class 44.

Jacquin, Charles, et Cie, Inc.: *See*—
Sheffield Dentifrice Co.

Jelstone Products Limited, London, England. Filling and surfacing compound. 574,289, May 12; Serial No. 625,070, published Feb. 3, 1953. Class 12.

Johns-Manville Corporation, New York, N. Y. Decorative asbestos siding sheets. 574,376, May 12; Serial No. 632,429, published Jan. 27, 1953. Class 12.

Johns-Manville Corporation, New York, N. Y. Fiberboard sheathing. 574,378, May 12; Serial No. 632,565, published Jan. 27, 1953. Class 12.

Johnson, Fredric H., doing business as Spice Islands Company, assignor to Spice Islands Company, San Francisco, Calif. Red wine vinegar, red wine vinegar flavored with tarragon, etc. 574,147, May 12; Serial No. 551,384, published Feb. 10, 1953. Class 46.

Johnston, Robert A., Company, Milwaukee, Wis. Biscuits, candies, chocolates, etc. 574,231, May 12; Serial No. 616,601, published Feb. 10, 1953. Class 46.

Karten, Morton, Incorporated, New York, N. Y. Children's play suits and overalls. 574,290, May 12; Serial No. 625,206, published Feb. 10, 1953. Class 39.

Kellogg Company, Battle Creek, Mich. Macaroni and spaghetti. 574,216, May 12; Serial No. 612,457, published Feb. 10, 1953. Class 46.

Kellogg Company, Battle Creek, Mich. Hog feed. 574,453, May 12; Serial No. 626,679. Class 46.

Kempton, Gordon R., doing business under the assumed name of No-Rne Company, Portland, Oreg. Preparation for stomach distress. 574,244, May 12; Serial No. 620,043, published Feb. 3, 1953. Class 18.

Kent Company, Inc., The, Rome, N. Y. Commercial electrically operated apparatus. 574,238, May 12; Serial No. 618,583, published Feb. 17, 1953. Class 21.

King Kone Corporation, New York, N. Y. Caramel flavored popcorn. 574,242, May 12; Serial No. 619,760, published Feb. 10, 1953. Class 46.

Kingston Watch Co., New York, N. Y. Watches. 574,398, May 12; Serial No. 634,645, published Feb. 3, 1953. Class 27.

Kirby, Block & Fischer, Inc., New York, N. Y. Boys' and men's clothing and furnishings and for women's, misses', and children's wearing apparel, etc. 302,617, renewed Apr. 25, 1953. O. G. May 12. Class 39.

Kirstein, Estelle A., doing business as Hush Company, to The Gillette Company, Boston, Mass. Toilet preparations. 363,891, Jan. 3, 1939. New certificate. O. G. May 12. Class 51.

Klamath Iron Works, Klamath Falls, Oreg. Electric engines. 574,424, May 12; Serial No. 581,532. Class 21.

Koenig, Harry D., doing business under the name of Anre, New York, N. Y. Greaseless sun tan lotion. 574,452, May 12; Serial No. 625,606. Class 51.

Kohler Co., Kohler, Wis. Plumbing fixtures. 574,390, May 12; Serial No. 633,987, published Feb. 17, 1953. Class 13.

Kohler Co., Kohler, Wis. Combination removable strainer cup and waste control. 574,392, May 12; Serial No. 634,089, published Feb. 17, 1953. Class 13.

Kohler Co., Kohler, Wis. Mixing valves. 574,393, May 12; Serial No. 634,091, published Feb. 17, 1953. Class 13.

Kureha Spinning Co., Ltd., Higashi-ku, Osaka, Japan. Cotton yarn. 574,210, May 12; Serial No. 610,742, published Feb. 10, 1953. Class 43.

Kureha Spinning Co., Ltd., Higashi-ku, Osaka, Japan. Cotton yarn. 574,211, May 12; Serial No. 610,750, published Feb. 10, 1953. Class 43.

Lab-Tabs Co.: *See*—
Glessner Company, The.

Laber Spring and Tire Corporation, Oakland, Calif. Automobile storage batteries. 574,175, May 12; Serial No. 592,267, published Feb. 10, 1953. Class 21.

Lanman & Kemp, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Toilet waters, Florida water; cod liver oil, porous plasters, etc. 90,713–14, re-renewed Mar. 18, 1953. O. G. May 12. Class 51.

Lanman & Kemp-Barclay & Co., Incorporated: *See*—
Lanman & Kemp.

Lanonite of America: *See*—
Salomon, Janet P.

Lauffer, H. E., Co., Inc., New York, N. Y. Stainless steel cutlery. 574,460, May 12; Serial No. 629,440. Class 23.

Lavin, Esther, by House for Men, Inc., Chicago, Ill. Hand lotion. 349,854, Sept. 7, 1937. Republished May 12. Class 51.

Lawrence, A. C., Leather Company, Peabody, Mass., assignor to Swift & Company, Chicago, Ill. Leather. 574,380, May 12; Serial No. 632,677, published Feb. 10, 1953. Class 1.

Lax-C-Feen: *See*—
Newhouse, Abraham.

Le Blanc, G., Company: *See*—
Leblanc, Leon.

Leblanc, Leon, Paris, France, assignor to G. Le Blanc Company, Kenosha, Wis. Wind instruments. 574,154, May 12; Serial No. 557,979, published Feb. 17, 1953. Class 36.

Lee Manufacturing Co.: *See*—
Jacoby, George W., Jr.

Lees, James, and Sons Company, Bridgeport, Pa. All wool, all cotton, all acetate rayon, and/or acetate rayon and nylon combined carpets. 574,195, May 12; Serial No. 604,973, published Feb. 17, 1953. Class 42.

Lerner Blouse Co., Philadelphia, Pa. Ladies' blouses, shirtwaists, and waists. 574,333, May 12; Serial No. 628,698, published Feb. 17, 1953. Class 39.

Les Heritiers de Marie Brizard & Roger, Achard, Giotin & Cie, Bordeaux, France. Liqueurs. 574,233, May 12; Serial No. 616,716, published Feb. 17, 1953. Class 49.

Les Parfums Jacques Fath (Société à Responsabilité Limitée), Paris (Seine), France. Perfumes. 574,188, May 12; Serial No. 601,109, published Feb. 3, 1953. Class 51.

Lever Brothers Company, New York, N. Y. Facial make-up base. 574,308, May 12; Serial No. 626,630, published Jan. 27, 1953. Class 51.

Light Grain & Milling Co., Inc.: *See*—
Light Grain & Milling Co., The.

Light Grain & Milling Co., The, to Light Grain & Milling Co., Inc., Liberal, Kans. Self-rising pancake flour. 301,337, renewed Feb. 28, 1953. O. G. May 12. Class 46.

Lin-Lite, Inc., New York, N. Y. Men's sport coats. 574,273, May 12; Serial No. 623,311, published Feb. 10, 1953. Class 39.

Linton Mfg. Co., Inc., Elkhart, Ind. Woodwind musical instruments. 574,362, May 12; Serial No. 631,058, published Feb. 17, 1953. Class 36.

Little Miss Undies, Inc., Yonkers, N. Y. Infants', children's, boys' and girls' underwear. 574,259, May 12; Serial No. 621,830, published Feb. 10, 1953. Class 39.

Lovely Lady, Inc., by House of Twain, Inc., Chicago, Ill. Face powder, cold cream, vanishing cream, etc. 358,044, June 28, 1938. Republished May 12. Class 51.

Macy, R. H., & Co., Inc., New York, N. Y. Pianos. 574,169, May 12; Serial No. 589,221, published Feb. 17, 1953. Class 36.

Malanco, Inc., Blue Island, Ill. Greaseproof paper. 574,191, May 12; Serial No. 602,563, published Feb. 10, 1953. Class 37.

Maltbie Chemical Company, The: *See*—
Maltbie Laboratories, Inc.

Maltbie Laboratories, Inc., formerly The Maltbie Chemical Company, Newark N. J. Preparation for the medical management of biliary disease. 574,159, May 12; Serial No. 566,351, published Jan. 20, 1953. Class 18.

Markwell Manufacturing Co., Inc., New York, N. Y. Stapling machines. 574,300, May 12; Serial No. 626,333, published Feb. 3, 1953. Class 23.

Masson, Paul: *See*—
Masson, Paul, Inc.

Masson, Paul, Inc., also doing business as Paul Masson and Paul Masson Vineyards, Cupertino, Calif. Red champagne. 574,217, May 12; Serial No. 613,080, published Jan. 20, 1953. Class 47.

Masson, Paul, Vineyards: *See*—
Masson, Paul, Inc.

Master Mechanics Co., The, Cleveland, Ohio. Pigmented liquid coating compositions. 574,196, May 12; Serial No. 605,665, published Feb. 10, 1953. Class 16.

Mathews Conveyer Company, Ellwood City, Pa. Fabrication of material handling conveyers and material handling equipment. 574,414, May 12; Serial No. 607,712, published Feb. 17, 1953. Class 106.

Mayer, A. G., Inc., New York, N. Y. Plastic containers, namely, cases for holding pens and pencils. 574,266, May 12; Serial No. 622,611, published Feb. 10, 1953. Class 37.

Mayer Bros., Seattle, Wash. Finger rings and mountings therefor. 574,400, May 12; Serial No. 635,044, published Feb. 10, 1953. Class 28.

May-Zur-Mark Co., Springfield, Ill. Butter and oleomargarine. 574,250, May 12; Serial No. 620,924, published Feb. 10, 1953. Class 46.

McDonald, A. Y., Mfg. Co., Dubuque, Iowa. Check valves, relief valves, air pressure control valves, etc. 574,253, May 12; Serial No. 621,275, published Feb. 17, 1953. Class 13.

McGraw Electrical Company, Chicago, Ill. Motor generators, transmitters, and receiver control units. 574,171, May 12; Serial No. 590,513, published Feb. 17, 1953. Class 21.

McGraw Electric Company, Chicago, Ill. Electrical appliances. 574,220, May 12; Serial No. 614,259, published Feb. 17, 1953. Class 21.

McKeever, T. D., by Cisco-California, Inc., Los Angeles, Calif. Gabardine and other cloth swim suits, outer shorts, play suits, etc. 355,133, Mar. 8, 1938. Republished May 12. Class 39.

Meghrig, M., & Sons, New York, N. Y. Philatelic and numismatic equipment and supplies. 574,145, May 12; Serial No. 525,639, published Feb. 10, 1953. Class 37.

Mets, Keith, Grower and Shipper: *See*—
Dorman Farms Co.

Michigan Salt Company: *See*—
York and Company.

Midland Brick and Tile Company, Chillicothe, Mo. Face brick. 574,285, May 12; Serial No. 624,752, published Jan. 13, 1953. Class 12.

Midland Products, Inc., St. Louis, Mo. Paper, cellulose tissue, celluloid, etc., used as containers. 330,009, Nov. 19, 1935. Republished May 12. Class 2.

Million-Guiet-Tuhauto, Levallois-Perret, France. Rocking chairs, arm-chairs, bathroom chairs, etc. 574,153, May 12; Serial No. 557,943, published Feb. 17, 1953. Class 32.

Minerals Separation North American Corporation, assignee: *See*—
Attapulgus Clay Company.

Minerva Motors, Berchem, near Antwerp, Belgium, to Societe Anonyme Societe Nouvelle Minerva, Sprimont, Belgium. Transmission apparatus and explosion-motors. 89,131, re-renewed Nov. 12, 1952. O. G. May 12. Class 23.

Minnesota and Ontario Paper Company, Minneapolis, Minn. Fiber composition board, and for surface coated fiber board. 574,345, May 12; Serial No. 629,501, published Jan. 20, 1953. Class 12.

Modernophone, Inc., New York, N. Y. Electrical asuund-reproducing apparatus, with speaker or earphones, etc. 574,180, May 12; Serial No. 598,028, published Feb. 10, 1953. Class 21.

Monomelt Co. Inc., The, Minneapolis, Minn. Milling machines. 574,338, May 12; Serial No. 629,034, published Feb. 3, 1953. Class 23.

Monsanto Chemical Company, St. Louis, Mo. Bulk rubber compositions. 574,269–70, May 12; Serial Nos. 623,005–6, published Jan. 27, 1953. Class 1.

Morgan, George H., doing business as Tru-Mask Co., St. Louis, Mo. Respirators. 574,428, May 12; Serial No. 607,461. Class 44.

Morgan Products Corp., New York, N. Y., formerly Morgan-Sabalol Products, Inc. Medical preparation. 574,439, May 12; Serial No. 619,677. Class 18.

Morgan-Sabalol Products, Inc.: *See*—
Morgan Products Corp.

Mölhens, Ferd, Inc., to "4711" Limited, New York, N. Y. Eau de cologne. 300,579, renewed Jan. 24, 1953. O. G. May 12. Class 51.

Multi-Vent Awning & Aluminum Co., Augusta, Ga. Metal awnings. 574,184, May 12; Serial No. 600,843, published Jan. 13, 1953. Class 12.

Mundo Products, Inc., to Sapolin Paints Inc., New York, N. Y. Paint enamels and varnish stains. 303,686, renewed June 6, 1953. O. G. May 12. Class 16.

Musial, Joseph, Manhasset, N. Y. Entertainment service. 574,413, May 12; Serial No. 597,971, published Feb. 17, 1953. Class 107.

National Distillers Products Corporation, assignee: *See*—
U. S. Industrial Chemicals, Inc.

National Modes, Inc., by Carolyn Fashions, Inc., New York, N. Y. Fashion periodical. 372,360, Oct. 31, 1939. Republished May 12. Class 38.

Newhouse, Abraham, doing business under the name and style of Lax-C-Feen, Brooklyn, N. Y. Laxative. 574,170, May 12; Serial No. 590,451, published Jan. 20, 1953. Class 18.

Newton Line Company Incorporated, Homer, N. Y. Fishing lines. 574,162, May 12; Serial No. 568,527, published Feb. 3, 1953. Class 22.

Norsk Frossenfisk A/L, Oslo, Norway. Frozen whole fish (skin on), frozen fish fillet (skinless), and frozen whale meat. 574,204, May 12; Serial No. 609,136, published Feb. 3, 1953. Class 46.

Northern Laboratories, Manitowoc, Wis., assignor to The Gillette Company, Boston, Mass. Foaming bath and band lotion. 574,312, May 12; Serial No. 626,698, published Feb. 17, 1953. Class 51.

Northwest Packing Co., by Pet Food Co., Portland, Oreg. Canned dog and cat food. 425,018–19, Oct. 29, 1946. Republished May 12. Class 46.

No-Rue Company: *See*—
Kempton, Gordon R.

Olympic Knitwear, Inc., New York, N. Y. Women's and misses' knitted sweaters. 574,372, May 12; Serial No. 632,096, published Feb. 10, 1953. Class 39.

Onondago Pottery Company, Syracuse, N. Y. China table ware and ornamental China ware. 302,608, renewed Apr. 25, 1953. O. G. May 12. Class 30.

Organo Inc., Orange, N. J. Medicinal preparation. 574,384, May 12; Serial No. 633,165, published Jan. 27, 1953. Class 18.

Organo Inc., Orange, N. J. Biological preparation. 574,406, May 12; Serial No. 637,608, published Jan. 20, 1953. Class 18.

Ottofy, Ladis H., doing business as Talking Devices Company, Chicago, Ill. Grooved, recorded, plastic phonographic tapes. 574,151, May 12; Serial No. 557,204, published Feb. 17, 1953. Class 36.

Pacific Airmotive Corporation, Burbank, Calif. Aircraft cabin preasurization systems. 574,158, May 12; Serial No. 562,147, published Aug. 21, 1951. Class 19.

Pacific Airmotive Corporation, Burbank, Calif. Pressure and vacuum relief valves, pneumatically operated shut-off and modulating valves, etc. 574,240, May 12; Serial No. 619,473, published July 8, 1952. Class 13.

Pacific Mills, Lawrence and Boston, Mass., to Pacific Mills, New York, N. Y. Cotton piece and cotton dress goods. 90,469, re-renewed Feb. 25, 1953. O. G. May 12. Class 42.

Pacific Union Conference of Seventh-Day Adventists, doing business as Chapel Records, Glendale, Calif. Mechanically grooved phonograph records. 574,346, May 12; Serial No. 629,356, published Feb. 17, 1953. Class 36.

Paper Art Company, Inc., Indianapolis, Ind. Paper napkins, paper table cloths, and paper guest towels. 574,150, May 12; Serial No. 556,466, published Feb. 10, 1953. Class 37.

Paramount Venetian Blind Company: *See*—
Rosenberg, Rubin.

Parke, Davis & Company, Detroit, Mich. Multiple vitamin preparation. 574,394, May 12; Serial No. 634,108, published Feb. 10, 1953. Class 18.

Parker Rust Proof Company, Detroit, Mich. Phosphatic preparation for application to metal surfaces for cleaning and forming a permanent coating thereon. 574,301, May 12; Serial No. 626,335, published Feb. 17, 1953. Class 52.

Pennwood Numechron Co., Pittsburgh, Pa. Clocks. 574,160, May 12; Serial No. 567,129, published Feb. 3, 1953. Class 27.

Perma-Strate Company, Memphis, Tenn. Hair straightening cream. 574,287, May 12; Serial No. 624,908, published Jan. 13, 1953. Class 51.

Pet Food Co.: *See*—
Northwest Packing Co.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Assembled pen or brooder. 574,313, May 12; Serial No. 626,746, published Feb. 3, 1953. Class 50.

Pharma-Craft Corporation, The, New York, N. Y. Medicated ointment. 574,157, May 12; Serial No. 561,484, published Nov. 1, 1949. Class 18.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Detergent preparation. 574,339, May 12; Serial No. 629,038, published Feb. 10, 1953. Class 52.

Pillsbury Mills, Inc., Minneapolis, Minn. Rabbit feed. 574,179, May 12; Serial No. 597,860, published Feb. 3, 1953. Class 46.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 574,247, May 12; Serial No. 620,621, published Feb. 3, 1953. Class 46.

Pioneer Paper Company, Los Angeles, Calif., by the Flintkote Company, New York, N. Y. Bituminous emulsions. 283,093, May 10, 1931. Republished May 12. Class 12.

Plastic Engineering, Inc., Cleveland, Ohio. Plastic tile. 574,298, May 12; Serial No. 620,115, published Feb. 3, 1953. Class 12.

Playmore Knits of California, Inc., Los Angeles, Calif. Boys' and girls' knitted outerwear. 574,357, May 12; Serial No. 630,209, published Feb. 10, 1953. Class 39.

Polly-Betts Undies: *See*—
Schlegel, William H.

Portion Pack, Inc., assignee: *See*—
Bond, Jack.

Precision Parts Corporation, Nashville, Tenn. Folding stairways. 574,327, May 12; Serial No. 628,294, published Feb. 17, 1953. Class 12.

Presto Mange Remedy Co.: *See*—
Bradford, Elva H.

Price, Burton S.: *See*—
Stone, Clarence H.

Private Brands, Inc., Knoxville, Tenn., now by change of name Chiclecraft, Inc. Chewing gum. 571,302, Mar. 3, 1953. Corrected. O. G. May 12. Class 46.

Process Chemicals Company, Los Angeles, Calif. Wetting agents. 574,348, May 12; Serial No. 629,080, published Feb. 17, 1953. Class 6.

Purdue Frederick Company, The, New York, N. Y. Therapentic vaginal tablet. 574,355, May 12; Serial No. 630,022, published Feb. 17, 1953. Class 18.

Ransom & Randolph Company, The, Toledo, Ohio. Dental burs, impression compounds, scaling instruments, etc. 300,906, renewed Feb. 14, 1953. O. G. May 12. Class 44.

Raskin, Henry, Detroit, Mich. Dog deodorant. 574,291, May 12; Serial No. 625,225, published Jan. 13, 1953. Class 51.

Reddy Kilowatt: *See*—
Collins, Ashton B.

Rek-O-Kut Company, Long Island City, N. Y. Electrically operated phnnograph record players. 574,227, May 12; Serial No. 615,903, published Feb. 10, 1953. Class 21.

Reliance Manufacturing Company, Chicago, Ill. Dungarees. 574,369, May 12; Serial No. 631,688, published Feb. 10, 1953. Class 39.

Richardson, Edw. & Jas., Newcastle-upon-Tyne, to G. W. Russell & Son Limited, Hitchin, England. Finished leather. 90,244, re-renewed Feb. 11, 1953. O. G. May 12. Class 1.

Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Still and effervescent table waters. 574,165, May 12; Serial No. 579,215, published Jan. 27, 1953. Class 45.

Robbin, Meyer, doing business as Robbin Products, Los Angeles, Calif. Wrist watches. 574,387, May 12; Serial No. 633,466, published Feb. 10, 1953. Class 27.

Robbin Products: *See*—
Robbin, Meyer.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Metal valves and cocks. 574,303, May 12; Serial No. 626,414, published Feb. 17, 1953. Class 13.

Rock Island Millwork Company, Rock Island, Ill. Building woodwork. 574,232, May 12; Serial No. 616,680, published Feb. 17, 1953. Class 12.

Roebling's, John A., Sons Company, Trenton, N. J. Bridges constructed of wire and wire rope. 574,189, May 12; Serial No. 601,334, published Feb. 17, 1953. Class 12.

Rogell, Albert S., Hollywood, Calif. Flexible, elongated, electrical heating pad. 574,446, May 12; Serial No. 624,207. Class 44.

Rosenberg, Rubin, doing business under the name and style of Paramount Venetian Blind Company, New York, N. Y. Venetian blinds and Venetian blind assemblies. 571,726, Mar. 10, 1953. Corrected. O. G. May 12. Class 32.

Ross Bait Manufacturing, Co., The, Akron, Ohio. Artificial fish lure. 574,208, May 12; Serial No. 610,524, published Feb. 10, 1953. Class 22.

Rotter, Harry, Chicago, Ill. Finger rings. 574,374, May 12; Serial No. 632,176, published Feb. 3, 1953. Class 28.

Rubinstein, Helena, Inc., New York, N. Y. Cologne. 574,172, May 12; Serial No. 591,050, published Jan. 13, 1953. Class 51.

Russell, G. W., & Son Limited: *See*—
Richardson, Edw. & Jas.

S. S. S. Co.: *See*—
Swift Specific Co., The.

St. Joseph Lead Company, New York, N. Y. Mineral pigments. 305,006, renewed July 25, 1953. O. G. May 12. Class 6.

Salomon, Janet P., doing business as Lanonite of America, Milwaukee, Wis. Molds for forming impressions of imitation stone on cement, plaster, and like walls. 574,404, May 12; Serial No. 636,810, published Feb. 17, 1953. Class 12.

Salvo Tool & Engineering Co.: *See*—
Bedker, Leo W.

Sals, A. K. Company, San Francisco, and Santa Cruz, Calif. Hides and leather. 574,197, May 12; Serial No. 605,085, published Feb. 3, 1953. Class 1.

Samar Cosmetic Co.: *See*—
Samar, George E.

Samar, George E., doing business as Samar Cosmetic Co., Syracuse, N. Y. Cologne, perfume, face powder, etc. 574,436, May 12; Serial No. 616,133. Class 51.

Sandeman, Geo. G., Sons & Co. Limited: *See*—
Sandeman & Sons Limited.

Sandeman & Sons Limited, Edinburgh, Scotland, to Geo. G. Sandeman Sons & Co. Limited, London, England. Whisky. 304,290, renewed June 27, 1953. O. G. May 12. Class 49.

Sandler, Eli L., & Co., Inc., New York, N. Y. Handkerchiefs. 574,177, May 12; Serial No. 597,169, published Feb. 3, 1953. Class 39.

Santa Cola Company, Los Angeles, Calif. Non-alcoholic non-cereal, maltless beverage. 444,770, May 12; Serial No. 519,900, published Dec. 9, 1947. Class 45.

Santa Cola Company, Culver City, Calif. Ginger beer. 574,149, May 12; Serial No. 553,313, published Mar. 7, 1950. Class 45.

Sapolin Paints Inc.: *See*—
Mundo Products, Inc.

Schallenberger & Co.: *See*—
Schallenberger, Robert R.

Schallenberger, Robert R., doing business as Schallenberger & Co., San Francisco, Calif. Pharmaceutical preparation. 574,317, May 12; Serial No. 627,280, published Feb. 17, 1953. Class 18.

Schiffman, Irving, Pittsburgh, Pa. Diamonds. 574,451, May 12; Serial No. 625,439. Class 28.

Schlegel, William H., doing business as Polly-Betts Undies, Reading, Pa. Little girls' lingerie. 574,336, May 12; Serial No. 628,962, published Feb. 10, 1953. Class 39.

Schlesinger Brothers, New York, N. Y. Ladies' wearing apparel. 574,156, May 12; Serial No. 560,135, published Jan. 1, 1952. Class 39.

Schroeder Bros., Inc., New York, N. Y. Dates. 574,350, May 12; Serial No. 629,819, published Feb. 10, 1953. Class 46.

Schwab, David E., & Co. Inc., New York, N. Y. Lace handkerchiefs and lace scarfs. 574,248, May 12; Serial No. 620,860, published Feb. 10, 1953. Class 39.

Sea Breeze Laboratories, Inc.: *See*—
Brooks, J. W., & Co. Incorporated.

Seagram-Distillers Corporation, assignee: *See*—
Seagram, Joseph E., & Sons, Inc.

Seagram, Joseph E., & Sons, Inc., assignor to Seagram-Distillers Corporation, New York, N. Y. Alcoholic beverages. 574,181, May 12; Serial No. 598,029, published Feb. 17, 1953. Class 49.

Sea View Farms, Ltd., Honolulu, Hawaii. Fresh pineapples and papayas. 574,388, May 12; Serial No. 633,740, published Feb. 10, 1953. Class 46.

Sealed Power Corporation, Muskegon Heights, Mich. Piston ring groove inserts. 574,254, May 12; Serial No. 621,337, published Feb. 17, 1953. Class 35.

Sears, Roebuck and Co., Chicago, Ill. Door lock sets, French window lock sets, wardrobe locks, etc. 574,219, May 12; Serial No. 614,106, published Feb. 17, 1953. Class 25.

Sechrest, Ralph: *See*—
Hill, Fred, Packing Company.

Shad-o-Blok Corporation, Lancaster, Ohio. Concrete block. 574,235, May 12; Serial No. 616,925, published Feb. 17, 1953. Class 12.

Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Paint bases and paints. 574,182, May 12; Serial No. 598,965, published Feb. 17, 1953. Class 16.

Shear, Rose A., doing business under the firm name of Shear's Laboratories, Lancaster, Pa. Cold capsules. 574,441, May 12; Serial No. 620,093. Class 18.

Shear's Laboratories: *See*—
Shear, Rose A.

Sheffield Dentifrice Co., New London, Conn., and New York, N. Y., to Charles Jacquin et Cie, Inc., Philadelphia, Pa. 92,728, re-renewed July 22, 1953. O. G. May 12. Class 49.

Shellabarger Mill & Elevator Company, Salina, Kans., by International Milling Company, Minneapolis, Minn. Wheat flour. 262,464, Oct. 15, 1929. Republished May 12. Class 46.

Sherwin-Williams Company, The, Cleveland, Ohio. Enamel type coating. 574,381, May 12; Serial No. 632,698, published Feb. 17, 1953. Class 16.

Shure Brothers, Incorporated, Chicago, Ill. Magnetic medium recorder heads, phonograph pickup cartridges, etc. 574,164, May 12; Serial No. 578,718, published Feb. 10, 1953. Class 21.

Siegel Shulman, Inc., Miami Beach, Fla. Women's and misses' coats, suits, dresses, blouses, etc. 574,343, May 12; Serial No. 629,395, published Feb. 10, 1953. Class 39.

Signal Electric Manufacturing Co., Menominee, Mich. Electrical apparatus. 574,198, May 12; Serial No. 606,177, published Feb. 17, 1953. Class 21.

Sindar Corporation, New York, N. Y. Liquid preparation for degerming cutaneous surfaces. 574,222, May 12; Serial No. 614,851, published Jan. 20, 1953. Class 18.

Skelly Oil Company, Kansas City, Mo. Gasoline. 574,340, May 12; Serial No. 629,962, published Feb. 10, 1953. Class 15.

Skeoch, Walter, doing business under the firm name and style of Southern California Minerals Company, Los Angeles, Calif. Clay. 574,358, May 12; Serial No. 630,287, published Feb. 3, 1953. Class 1.

Smetisko, Eugenia (Smith): *See*—
(Smith), Eugenia S.

(Smith), Eugenia S., doing business as Theodore Genet, Elmhurst, Ill. Perfume. 574,292, May 12 Serial No. 625,302, published Jan. 13, 1953. Class 51.

Societe Anonyme Jeanne Lanvin, Paris, France. Women's dresses, coats, skirts, etc. 574,367, May 12; Serial No. 631,519, published Feb. 10, 1953. Class 39.

Societe Anonyme Societe Nouvelle Minerva: *See*—
Minerva Motors.

Societe Biopharma, Paris, France. Preparations in liquid form for use in orchido-therapeutics. 574,236, May 12; Serial No. 617,515, published Feb. 3, 1953. Class 18.

Societe Des Usines Chimiques Rhone-Poulenc, Paris, France. Anti-spasmodic active in Parkinson's disease. 574,173, May 12; Serial No. 591,201, published Jan. 20, 1953. Class 18.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Wire reinforced rubber hose. 574,408, May 12; Serial No. 637,842, published Feb. 17, 1953. Class 35.

Sorge Enterprises, Inc., also doing business under the name of Joseph F. Sorge, Washington, D. C. Medicated scalp and skin formula. 574,466, May 12; Serial No. 633,794. Class 18.

Sorge, Joseph F.: *See*—
Sorge Enterprises, Inc.

Southern California Minecals Company: *See*—
Skeoch, Walter.

Southern Radio & Television Equipment Company, Miami, Fla. Television program broadcasting services. 574,418, May 12; Serial No. 619,041, published Feb. 17, 1953. Class 104.

Southern States Cooperative, Inc., Richmond, Va. Seed potatoes. 574,444, May 12; Serial No. 622,233. Class 1.

Spaight, Harold L., Cedar Rapids, Iowa. Wall reinforcing member comprising a bent or fabricated unit. 574,351, May 12; Serial No. 629,826, published Jan. 20, 1953. Class 12.

Spencer Chemical Company, Kansas City, Mo. Weed killer. 574,411, May 12; Serial No. 638,220, published Feb. 17, 1953. Class 6.

Spice Islands Company: *See*—
Johnson, Fredric H.

Sprayo-Flake Company, Chicago, Ill. Spraying on insulation in buildings in general. 574,415–16, May 12; Serial Nos. 614,520–1, published Feb. 17, 1953. Class 103.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Denaturants. 299,132, renewed Nov. 22, 1952. O. G. May 12. Class 6.

Steinberger Bros. Inc., New York, N. Y. Wool, worsted, angora, cotton, etc., yarn and mixtures thereof. 305,080, renewed Aug. 1, 1953. O. G. May 12. Class 43.

Stieh, William M., and Co., Inc., Teaneck, N. J. Herbicides. 574,275, May 12; Serial No. 623,739, published Feb. 17, 1953. Class 6.

Stolz Freres, S. A. Fabrique d'Horlogerie Angelus, Le Locle, Switzerland. Boudoir, desk, and mantle clocks, watches and parts thereof. 574,395, May 12; Serial No. 634,498, published Feb. 3, 1953. Class 27.

Stone, C. H., Company: *See*—
Stone, Clarence H.

Stone, Clarence H., doing business as C. H. Stone Company, Lynnfield Center, by Burton S. Price, Waban, Mass. Solvent soap and waterproofing agents. 396,400, July 14, 1942. Republished May 12. Classes 6 and 52.

Stratoflex, Inc., Fort Worth, Tex. Rubber Hose, and hose assemblies. 574,379, May 12; Serial No. 632,634, published Feb. 17, 1953. Class 35.

Streeper Funeral Homes, Alton, Ill. Mortuary and funeral direction services. 574,417, May 12; Serial No. 616,733, published Feb. 17, 1953. Class 100.

Stremmel, William G., doing business as Dustite Products Company, Dayton, Ohio. Resilient window seal strip. 574,440, May 12; Serial No. 620,827. Class 12.

Stuart Company, The, Pasadena, Calif. Composition containing vitamins and minerals. 574,284, May 12; Serial No. 624,709, published Feb. 10, 1953. Class 18.

Superb Glove Company, The, Johnstown, N. Y. Ladies' gloves. 574,251, May 12; Serial No. 621,037, published Feb. 10, 1953. Class 39.

Swift & Company, assignee: *See*—
Lawrence, A. C., Leather Company.

Swift Specific Co., The, to S. S. S. Co., Atlanta, Ga. Medicine for the cure of all blood and skin diseases, etc. 40,050, rerenewed Apr. 7, 1953. O. G. May 12. Class 18.

Talking Devices Company: *See*—
Ottofy, Ladis H.

Telautograph Corporation, New York, N. Y. Electrically operated equipment. 444,771, May 12; Serial No. 523,490, published Feb. 3, 1953. Class 21.

Teleprompter Corporation, New York, N. Y. Electrically-operated apparatus. 574,209, May 12; Serial No. 610,645, published Feb. 10, 1953. Class 21.

Tennessee Products & Chemical Corporation: *See*—
Tennessee Products Corporation.

Tennessee Products Corporation, by Tennessee Products & Chemical Corporation, Nashville, Tenn. Chemical preparations. 280,204, Feb. 10, 1931. Republished May 12. Classes 6 and 18.

Tetley, Joseph, & Co., Inc., to Tetley Tea Co., Inc., New York, N. Y. Tea, coffee, cocoa, etc. 303,631, renewed May 30, 1953. O. G. May 12. Class 46.

Tetley Tea Co., Inc.: *See*—
Tetley, Joseph, & Co., Inc.

Time Oil Co., Seattle, Wash., and Los Angeles, Calif. Gasoline. 574,328, May 12; Serial No. 628,307, published Feb. 3, 1953. Class 15.

Todd Company, Inc., The: *See*—
Todd, G. W., & Company.

Todd, G. W., & Company, to The Todd Company, Inc., Rochester, N. Y. Machines, known as check-protectors for printing limiting amounts on bank checks, etc. 92,147, rerenewed June 17, 1953. O. G. May 12. Class 23.

Torigian Laboratories, Inc., Queens Village, N. Y. Pharmaceutical preparation. 574,385, May 12; Serial No. 633,228, published Jan. 27, 1953. Class 18.

Triangle Finishing Corp., Johnstown, N. Y. Treating fabric. 574,419. May 12; Serial No. 625,500, published Feb. 17, 1953. Class 106.

Tru-Mask Co.: *See*—
Morgan, George H.

20th Century Novelty Co., New York, N. Y. Finger rings. 574,401, May 12; Serial No. 635,121, published Feb. 10, 1953. Class 28.

Ullmann, Bernhard, Co. Inc., Long Island City, N. Y. Embroidery-work, knitting-work, crocheting-work, etc. 119,830, Dec. 11, 1917. Republished May 12. Class 40.

Ulmer, Charles, Inc., City Island, N. Y. Rope. 574,264, May 12; Serial No. 622,566, published Feb. 17, 1953. Class 7.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Union Bag & Paper Co., The, to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 39,837, rerenewed Feb. 24, 1953. O. G. May 12. Class 2.

Union Bag & Paper Corporation: *See*—
Union Bag & Paper Co., The.

Union Special Machine Company, Chicago, Ill. Sewing machine needles. 301,996, renewed Mar. 21, 1953. O. G. May 12. Class 23.

Union Special Machine Company, Chicago, Ill. Magazine. 304,292, renewed June 27, 1953. O. G. May 12. Class 38.

United Distillers (of America) Ltd., Baltimore, Md., assignor to Joseph S. Finch and Company, New York, N. Y. Whiskey. 574,334, May 12; Serial No. 629,977, published Feb. 10, 1953. Class 49.

United Glass Bottle Manufacturers Limited, The, London, England. Glass fruit preserving jars. 574,434, May 12; Serial No. 613,269. Class 33.

U. S. Industrial Chemicals, Inc., assignor to National Distillers Products Corporation, New York, N. Y. Resins in solution used in the manufacture of paints, varnishes and lacquers. 574,185, May 12; Serial No. 600,867, published Feb. 17, 1953. Class 16.

U. S. Jewelry Co., Inc., Baltimore, Md. Diamond rings. 574,402, May 12; Serial No. 635,281, published Feb. 10, 1953. Class 28.

Van Cleef Bros., Inc., Chicago, Ill. Weatherstrip packing. 574,186, May 12; Serial No. 601,002, published Jan. 13, 1953. Class 12.

Van Cleef Bros., Inc., Chicago, Ill. Weatherstrip packing. 574,187, May 12; Serial No. 601,004, published Jan. 13, 1953. Class 12.

Vanity Corset Company, Inc., New York, N. Y. Corsets, corselets, girdles, etc. 574,306, May 12; Serial No. 631,510, published Feb. 10, 1953. Class 39.

Van Raalte Company, Inc., New York, N. Y. Women's and misses' underwear. 574,272, May 12; Serial No. 623,219, published Feb. 10, 1953. Class 39.

Vaporette, Inc., Dallas, Tex. Disposable vaporizers having insecticide molded thereto. 574,399, Mar 12; Serial No. 635,008, published Feb. 10, 1953. Class 6.

Vibradamp Corporation, Los Angeles, Calif. Glass fibre saturated with resinous material for use as a shock mount. 574,176, May 12; Serial No. 594,084, published Feb. 17, 1953. Class 12.

Wallpaper Manufacturers Limited, The, Londoon, to The Walpamur Company Limited, Darwen, England. Paper hangings. 89,521, re-renewed Dec. 17, 1952. O. G. May 12. Class 37.

Walpamur Company Limited, The: *See*—
Wallpaper Manufacturers Limited, The.

Wander Company, The, Chicago, Ill. Vitamin preparation. 574,296, May 12; Serial No. 625,776, published Feb. 3, 1953. Class 18.

Wander Company, The, Chicago, Ill. Antithyroid mixture. 574,386, May 12; Serial No. 633,397, published Feb. 10, 1953. Class 18.

Wander Company, The, Chicago, Ill. Compound for the alleviation of hypertension. 574,412, May 12; Serial No. 638,341, published Feb. 10, 1953. Class 18.

Warcin Company, Chicago, Ill. Rodenticides. 574,326, May 12; Serial No. 628,235, published Feb. 17, 1953. Class 6.

Waukesha Motor Company, Waukesha, Wis. Apparatus adapted to be mounted on, and to supply electric current to, railway cars, etc. 574,246, May 12; Serial No. 620,447, published Feb. 10, 1953. Class 21.

Webster Block Company, Inc., Brentwood, Mo. Concrete building blocks. 574,324, May 12; Serial No. 628,072, published Jan. 13, 1953. Class 12.

Wellmade Leather Goods Co., Inc., New York, N. Y. Men's and boys' belts. 574,218, May 12; Serial No. 613,578, published Feb. 3, 1953. Class 39.

Wells Flour Milling Company, Wells, by International Milling Company, Minneapolis, Minn. Wheat flour. 74,619. July 27, 1909. Republished May 12. Class 46.

Wells Flour Milling Company, Wells, by International Milling Company, Minneapolis, Minn. Wheat flour. 82,033, May 23, 1911. Republished May 12. Class 46.

Wells Lamont Corporation, Chicago, Ill. Work gloves. 574,161, May 12; Serial No. 568,137, published Feb. 10, 1953. Class 39.

Werner, R. D., Co., Inc., New York, N. Y. Non-ferrous metal mouldings and extruded metal in the forms of angles, channels, rap sections, etc. 574,200, May 12; Serial No. 607,835, published Feb. 3, 1953. Class 12.

Western Pine Association, Portland, Oreg. Lumber, millwork, and lath. 574,421, May 12; Serial No. 622,186, published Feb. 17, 1953. Class 12.

Western Tablet & Stationery Corporation: *See*—
Blair, J. C., Company.

Weyerhaeuser Timber Company, Tacoma, Wash. Comminuted barks of trees. 574,265, May 12; Serial No. 622,569, published Feb. 10, 1953. Class 1.

Whitehall Pharmacal Company: *See*—
Ayer Company, The.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental supplies. 300,886, renewed Feb. 14, 1953. O. G. May 12. Class 44.

White Swan Uniforms, Inc., Yonkers, N. Y. Ladies' and misses' uniforms and uniform dresses. 574,335, May 12; Serial No. 628,885, published Feb. 10, 1953. Class 39.

White Turkey—Murray Hill, The, New York, N. Y. Canned soup, and preserved watermelon rind. 574,203, May 12; Serial No. 608,483, published Feb. 10, 1953. Class 46.

Whitney & Company, Seattle, Wash. Canned salmon. 574,334, May 12; Serial No. 628,801, published Feb. 17, 1953. Class 46.

Wilber Co., Inc., by Charles C. Haskell & Co., Inc., Richmond, Va. Preparation for the treatment of anemia. 345,285. Apr. 20, 1937. Repoblished May 12. Class 18.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Wax candles. 574,323, May 12; Serial No. 628,020, published Feb. 3, 1953. Class 15.

Wilmar Co., Inc., New York, N. Y. Electric lamps. 574,288, May 12; Serial No. 625,055, published Feb. 17, 1953. Class 21.

Wilson, Joe: *See*—
Wilson, Joseph C.

Wilson, Joseph C., doing business as Joe Wilson, Lexington, Ky. Bottled cocktails, containing rum and gin. 574,212, May 12; Serial No. 610,880, published Jan. 27, 1953. Class 49.

Winko-Matic Signal Company, The, Lorain, Ohio. Flasherlight unit. 574,447, May 12; Serial No. 624,983. Class 21.

Winthrop-Stearns Inc., New York, N. Y. Preparation for the relief of eye irritations. 574,316, May 12; Serial No. 626,972, published Feb. 3, 1953. Class 18.

Winthrop-Stearns Inc., New York, N. Y. Broad spectrum antibiotic agent. 574,409, May 12; Serial No. 638,027, published Feb. 3, 1953. Class 18.

Witz, Phillip, Denison, Tex. Loose-leaf folders and blank forms. 574,365, May 12; Serial No. 631,192, published Feb. 10, 1953. Class 37.

Wonderknit Corporation, Lindenhurst, N. Y. Infants', young boys', young girls', men's, and women's under and outer shirts, sleeping shirts and pants, T-shirts, etc. 574,373, May 12; Serial No. 632,138, published Feb. 10, 1953. Class 39.

Wooster Kitchen Unit Co., New York and Brooklyn, N. Y. Wood product. 574,252, May 12; Serial No. 621,188, published Jan. 13, 1953. Class 12.

Wycombe, Meyer, Inc., to B. Altman & Co., New York, N. Y. Living room, dining room, and bed room furniture. 414,445, June 12, 1945. New certificate. O. G. May 12. Class 32.

Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Streptomycinkaolin - alumina gel - pectin combination. 574,201, May 12; Serial No. 608,231, published Feb. 3, 1953. Class 18.

Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Penicillin - dihydrostreptomycin implantation pellets. 574,268, May 12; Serial No. 622,967, published Jan. 20, 1953. Class 18.

Yawman & Erbe Mfg. Co., Rochester, N. Y. Sectional bookcases and filing-cabinets. 40,325, re-renewed May 12, 1953. O. G. May 12. Class 32.

York and Company, Grand Rapids, to Michigan Salt Company, St. Louis, Mich. Salt. 298,666, renewed Nov. 1, 1952. O. G. May 12. Class 46.

Zink, Chas. V., & Sons, Detroit, Mich. Stone cleaner. 574,304, May 12; Serial No. 626,550, published Feb. 17, 1953. Class 52.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Asphalt base composition. Asbestolith Manufacturing Corporation. 574,256, May 12; Serial No. 621,437, published Feb. 10, 1953.

Bulk rubber compositions. Monsanto Chemical Company. 574,269–70, May 12; Serial Nos. 623,005–6, published Jan. 27, 1953.

Chamois. Atlantic Sponge & Chamois Corporation. 574,294–5, May 12; Serial Nos. 625,573–4, published Feb. 10, 1953.

Clay. W. Skeoch. 574,358, May 12; Serial No. 630,287, published Feb. 3, 1953.

Clay, Molding. General Glaze Corporation. 574,337, May 12; Serial No. 629,015, published Feb. 3, 1953.

Clay, Plastic. Illinois Clay Products Company. 574,241, May 12; Serial No. 619,510, published Feb. 10, 1953.

Comminuted barks of trees. Weyerhaeuser Timber Company. 574,265, May 12; Serial No. 622,569, published Feb. 10, 1953.

Fuller's earth. Attapulgus Clay Company. 574,360, May 12; Serial No. 630,660, published Feb. 10, 1953.

Hides and leather. A. K. Sals Company. 574,197, May 12; Serial No. 605,685, published Feb. 3, 1953.

Leather. Eagle Ottawa Leather Company. 303,444, renewed May 23, 1953. O. G. May 12.

Leather. Eagle Ottawa Leather Company. 303,447, renewed May 23, 1953. O. G. May 12.

Leather. A. C. Lawrence Leather Company. 574,380, May 12; Serial No. 632,677, published Feb. 10 1953.

Leather, Finished. Edw. & Jas. Richardson. 90,244, renewed Feb. 11, 1953. O. G. May 12.

Plastic sheeting, Thin gauge. The Cambridge Corporation. 574,383, May 12; Serial No. 632,715, published Feb. 10, 1953.

Seed potatoes. Southern States Cooperative, Inc. 574,444, May 12; Serial No. 622,233.

Sheets of synthtic plastic matriais. Durlin Co. 574,349, May 12; Serial No. 629,781, published Feb. 10, 1953.

CLASS 2

Bags, Paper. The Union Bag & Paper Co. 39,837, rerenewed Feb. 24, 1953. O. G. May 12.

Paper, cellulose tissue, Celluloid, etc., used as containers. Midland Products, Inc. 330,009, Nov. 19, 1935. Republished May 12.

Sacks, Paper. The Chatfield & Woods Sack Company. 571,338, Mar. 3, 1953. Corrected. O. G. May 12.

Sacks, Paper. The Chatfield & Woods Sack Company. 571,340, Mar. 3, 1953. Corrected. O. G. May 12.

CLASS 4

Abrasives, Flexible and inflexible. Behr-Manning Corporation. 574,464, May 12; Serial No. 633,707.

Waxes, Floor, furniture, and automobile. Creco Company, Inc. 301,886, renewed Mar. 21, 1953. O. G. May 12.

CLASS 5

Water-proof sealing material in the nature of cement. Allen Products Corporation. 574,461, May 12; Serial No. 629,925.

CLASS 6

Chemical preparation. E. L. Fox. 574,257, May 12; Serial No. 621,458, published Feb. 17, 1953.

Chemical preparations. Tennessee Products Corporation. 280,204. Feb. 10, 1931. Republished May 12.

Denaturants. Standard Oil Company of California. 299,132, renewed Nov. 22, 1952. O. G. May 12.

Dyes and chemicals. Geigy Company, Inc. 304,961, renewed July 25, 1953. O. G. May 12.

Herbicides. William M. Stieh and Co., Inc. 574,275, May 12; Serial No. 623,739, published Feb. 17, 1953.

Insecticides. The Enterprise Manufacturing Company. 301,940, renewed Mar. 21, 1953. O. G. May 12.

Mineral pigments. St. Joseph Lead Company. 305,006, renewed July 25, 1953. O. G. May 12.

Naphthas. The R. J. Brown Company. 574,314, May 12; Serial No. 626,781, published Feb. 17, 1953.

Resinous and animal sizes, emulsions of resinous oleaginous, fatty, and waxy paper and textile sizing agents, etc. British Bewoid Company Limited. 296,948, renewed Aug. 30, 1952. O. G. May 12.

Rodenticides. Warcin Company. 574,326, May 12; Serial No. 628,235, published Feb. 17, 1953.

Salt blocks. International Salt Company. 574,438, May 12; Serial No. 618,454.

Saponified polyvinyl acetate. Chemische Forschungsgesellschaft m. b. H. 574,389, May 12; Serial No. 633,821, published Feb. 17, 1953.

Soap, Solvent, and waterproofing agents. C. H. Stone. 396,400, July 14, 1942. Republished May 12.

Vaporisers having insecticide molded thereto, Disposable. Vaporette, Inc. 574,399, May 12; Serial No. 635,008, published Feb. 10, 1953.

Weed killer. Spencer Chemical Company. 574,411, May 12; Serial No. 638,220, published Feb. 17, 1953.

Wetting agents. Process Chemicals Company. 574,348, May 12; Serial No. 629,689, published Feb. 17, 1953.

CLASS 7

Rope. Charles Ulmer, Inc. 574,264, May 12; Serial No. 622,566, published Feb. 17, 1953.

Twine, Baler, and binder twine. Darrell-Dillon Company. 574,363, May 12; Serial No. 631,095, published Feb. 17, 1953.

CLASS 10

Fertilizer, Chemical. The Consolidated Mining and Smelting Company of Canada, Limited. 299,311, renewed Nov. 29, 1952. O. G. May 12.

CLASS 12

Aggregate coated with chemically treated asphalt, Fine. Berry Asphalt Company. 574,321, May 12; Serial No. 627,020, published Feb. 17, 1953.

Asbestos siding sheets, Decorative. Johns-Manville Corporation. 574,370, May 12; Serial No. 632,429, published Jan. 27, 1953.

Awnings, Metal. Multi-Vent Awning & Aluminum Co. 574,184, May 12; Serial No. 600,843, published Jan. 13, 1953.

Bituminous emulsions. Pioneer Paper Company. 283,093, May 19, 1931. Republished May 12.

Board materials, Sound-absorbing. R. R. Abrams. 574,325, May 12; Serial No. 628,182, published Feb. 17, 1953.

Brick, Face. Midland Brick and Tile Company. 574,285, May 12; Serial No. 624,752, published Jan. 13, 1953.

Bridges constructed of wire and wire rope. John A. Roebling's Sons Company. 574,189, May 12; Serial No. 601,334, published Feb. 17, 1953.

Building blocks, Concrete. Webster Block Company, Inc. 574,324, May 12; Serial No. 628,072, published Jan. 13, 1953.

Building woodwork. Rock Island Millwork Company. 574,232, May 12; Serial No. 616,680, published Feb. 17, 1953.

Cement, Plastic roof; cold process sealer; caulking compound; etc. Foster Lumber Company. 574,205, May 12; Serial No. 609,236, published Jan. 13, 1953.

Concrete block. Shad-o-Blok Corporation. 574,235, May 12; Serial No. 616,925, published Feb. 17, 1953.

Concrete roofing tile. W. E. Dunn Manufacturing Company. 574,213, May 12; Serial No. 611,025, published Feb. 17, 1953.

Construction material. International Glass Fibres Corporation. 574,255, May 12; Serial No. 621,406, published Feb. 17, 1953.

Construction materials. Haskelite Manufacturing Corporation. 574,183, May 12; Serial No. 599,431, published Feb. 17, 1953.

Corrugated paper in sheet form. Convoy, Incorporated. 574,190, May 12; Serial No. 601,820, published Feb. 17, 1953.

Door units having component parts, Assembled. Wm. Cameron & Co. 574,293, May 12; Serial No. 625,332, published Jan. 20, 1953.

Doors. Howell Manufacturing Company. 574,224, May 12; Serial No. 615,555, published Feb. 17, 1953.

Fiberboard sheathing. Johns-Manville Corporation. 574,378, May 12; Serial No. 632,565, published Jan. 27, 1953.

Fiber composition board, and for surfaced coated fiber board. Minnesota and Ontario Paper Company. 574,345, May 12; Serial No. 629,501, published Jan. 20, 1953.

Filling and surfacing compound. Jelstone Products Limited. 574,289, May 12; Serial No. 625,070, published Feb. 3, 1953.

Flagstone, Finished, and building stone. Jacob's Creek Flagstone Company, Inc. 574,320, May 12; Serial No. 628,341, published Jan. 20, 1953.

Glass fibre saturated with resinous material for use as a shock mount. Vibradamp Corporation. 574,176, May 12; Serial No. 594,084, published Feb. 17, 1953.

Lumber, millwork, and lath. Western Pine Association. 574,421, May 12; Serial No. 622,186, published Feb. 17, 1953.

Molds for forming impressions of imitation stone on cement, plaster and like walls. J. P. Salomon. 574,404, May 12; Serial No. 636,810, published Feb. 17, 1953.

Non-ferrous metal mouldings and extruded metal in the forms of angles, channels, cap sections, etc. R. D. Werner, Co., Inc. 574,200, May 12; Serial No. 607,835, published Feb. 3, 1953.

Putty, Glazier's, asphalt, sound deadener. Armstrong Paint & Varnish Works. 574,133, May 12; Serial No. 559,775, published Jan. 13, 1953.

Shingles, Roofing. The Flintkote Company. 574,306, May 12; Serial No. 626,623, published Jan. 20, 1953.

Stairways, Folding. Precision Parts Corporation. 574,327, May 12; Serial No. 628,294, published Feb. 17, 1953.

Thermal insulation. The Carborundum Company. 574,223, May 12; Serial No. 615,478, published Jan. 13, 1953.

Tile, Inside plastic wall. Beatlie Manufacturing Company. 574,274, May 12; Serial No. 623,532, published Jan. 13, 1953.

Tile, Plastic. Plastic Engineering, Inc. 574,298, May 12; Serial No. 620,115, published Feb. 3, 1953.

Wall reinforcing member comprising a bent or fabricated unit. H. L. Spaight. 574,351, May 12; Serial No. 629,826, published Jan. 20, 1953.

Weatherstrip packing. Van Cleef Bros., Inc. 574,186, May 12; Serial No. 601,002, published Jan. 13, 1953.

Weatherstrip packing. Van Cleef Bros., Inc. 574,187, May 12; Serial No. 601,004, published Jan. 13, 1953.

Window seal strip, Resilient. W. G. Stremmel. 574,440, May 12; Serial No. 620,327.

Wood product. Wooster Kitchen Unit Co. 574,252, May 12; Serial No. 621,188, published Jan. 13, 1953.

CLASS 13

Bolts. J. H. Devine. 574,458, May 12; Serial No. 628,524.

Lock nuts. Elastic Stop Nut Corporation of America. 574,202, May 12; Serial No. 608,346, published Feb. 17, 1953.

Metal trackways for sliding doors. Acme Appliance Manufacturing Co. 574,457, May 12; Serial No. 627,657.

Nozzle attachment, Multiple. H. D. Hudson Manufacturing Company. 574,431, May 12; Serial No. 610 071.

Pipes and pipe fittings, Tubular. Anderson, Miller & Peston Mfg. Co. 574,442, May 12; Serial No. 621,121.

Plumbing fixtures. Kohler Co. 574,390, May 12; Serial No. 633,987, published Feb. 17, 1953.

Strainer cup and waste control. Combination removable. Kohler Co. 574,392, May 12; Serial No. 634,089, published Feb. 17, 1953.

Valves and cocks, Metal. Robertshaw-Fulton Controls Company. 574,303, May 12; Serial No. 626,414, published Feb. 17, 1953.

Valves, Check, relief valves, air pressure control valves, etc. A. Y. McDonald Mfg. Co. 574,253, May 12; Serial No. 621,275, published Feb. 17, 1953.

Valves, Mixing. Kohler Co. 574,393, May 12; Serial No. 634,091, published Feb. 17, 1953.

Valves, Pressure and vacuum relief, pneumatically operated shutoff and modulating valves, etc. Pacific Airmotive Corporation. 574,240, May 12; Serial No. 619,473, published July 8, 1952.

CLASS 15

Candles, Wax. Will & Baumer Candle Co., Inc. 574,323, May 12; Serial No. 628,020, published Feb. 3, 1953.

Gasoline. Ashland Oil & Refining Company. 574,318, May 12; Serial No. 627,311, published Feb. 3, 1953.

Gasoline. Skelly Oil Company. 574,340, May 12; Serial No. 629,062, published Feb. 10, 1953.

Gasoline. Time Oil Co. 574,328, May 12; Serial No. 628,307, published Feb. 3, 1953.

Oil compositions, Petroleum. Cities Service Oil Company. 574,319, May 12; Serial No. 627,497, published Feb. 3, 1953.

CLASS 16

Coating compositions, Pigmented liquid. The Master Mechanics Co. 574,190, May 12; Serial No. 605,665, published Feb. 10, 1953.

Coating, Enamel type. The Sherwin-Williams Company. 574,381, May 12; Serial No. 632,098, published Feb. 17, 1953.

Linseed oil. Cargill, Incorporated. 574,206, May 12; Serial No. 609,639, published Feb. 10, 1953.

Linseed oil for use in paints and as an ingredient of paints and other protective coatings. Cargill, Incorporated. 574,206, May 12; Serial No. 609,639, published Feb. 10, 1953.

Paint bases and paints. Shawinigan Chemicals Limited. 574,182, May 12; Serial No. 598,965, published Feb. 17, 1953.

Paint enamels and varnish stains. Mundo Products, Inc. 303,686, renewed June 6, 1953. O. G. May 12.

Paint, Protective plastic. Elraco Engineering Company. 574,263, May 12; Serial No. 622,384, published Feb. 17, 1953.

Primer and sealer, Plywood. M. A. Bruder & Sons, Incorporated. 574,221, May 12; Serial No. 614,286, published Feb. 10, 1953.

Resins in solution used in the manufacture of paints, varnishes, and lacquers. U. S. Industrial Chemicals, Inc. 574,185, May 12; Serial No. 600,867, published Feb. 17, 1953.

Waterproofing and finishing compound. C. C. Chartier. 574,167, May 12; Serial No. 582,820, published Feb. 10, 1953.

CLASS 17

Cigars. Bayuk Cigars Incorporated. 304,486, renewed July 11, 1953. O. G. May 12.

CLASS 18

Analgesic and sedative tablets. N. E. Dacus. 574,320, May 12; Serial No. 627,558, published Feb. 17, 1953.

Analgesic balm. Dr. Olivier Gaudin. 574,166, May 12; Serial No. 581,764, published Jan. 13, 1953.

Anesthetic ointment. Charles C. Haskell & Co., Inc. 352,294, Nov. 23, 1937. Republished May 12.

Antibiotic agent, Broad spectrum. Winthrop-Stearns Inc. 574,409, May 12; Serial No. 638,027, published Feb. 3, 1953.

Antiseptic baby cream. Calvital Company, Inc. 574,344, May 12; Serial No. 629,422, published Feb. 3, 1953.

Analgesic balm. Dr. Olivier Gaudin. 574,166, May 12; Serial No. 581,764, published Jan. 13, 1953.

Anesthetic ointment. Charles C. Haskell & Co., Inc. 352,294, Nov. 23, 1937. Republished May 12.

Antibiotic agent, Broad spectrum. Winthrop-Stearns Inc. 574,409, May 12; Serial No. 638,027, published Feb. 3, 1953.

Antiseptic baby cream. Calvital Company, Inc. 574,344, May 12; Serial No. 629,422, published Feb. 3, 1953.

Anti-spasmodic active in Parkinson's disease. Societe Des Usines Chimiques Rhone-Poulenc. 574,173, May 12; Serial No. 591,201, published Jan. 20, 1953.

Antithyroid mixture. The Wander Company. 574,386, May 12; Serial No. 633,397, published Feb. 10, 1953.

Biological preparation. Organon Inc. 574,406, May 12; Serial No. 637,608, published Jan. 20, 1953.

Chemical preparations. Tennessee Products Corporation. 280,204, Feb. 10, 1931. Republished May 12.

Cold capsules. R. A. Shear. 574,441, May 12; Serial No. 620,693.

Composition containing vitamins and minerals. The Stuart Company. 574,284, May 12; Serial No. 624,709, published Feb. 10, 1953.

Compound for the alleviation of hypertension. The Wander Company. 574,412, May 12; Serial No. 638,341, published Feb. 10, 1953.

Diagnostic opaquing preparation. General Electric Company. 574,410, May 12; Serial No. 638,182, published Feb. 10, 1953.

Dietary supplement containing vitamins and minerals and other food elements. Drug Packaging, Inc. 574,435, May 12; Serial No. 614,931.

Emollient cream. Hannah Laboratories, Inc. 574,361, May 12; Serial No. 630,931, published Jan. 20, 1953.

Enteric coated tablet. Cemac Laboratories, Inc. 574,279, May 12; Serial No. 624,525, published Jan. 27, 1953.

Growth stimulator for poultry and a preventive and control of cecal (bloody) coccidiosis in poultry. Barker, Moore & Mein Company. 574,249, May 12; Serial No. 620,909, published Feb. 10, 1953.

Hypnotic, sedative, analgesic, and antispasmodic compound. Abbott Laboratories. 574,302, May 12; Serial No. 626,358, published Feb. 3, 1953.

Laxative. A. Newhouse. 574,170, May 12; Serial No. 590,451, published Jan. 20, 1953.

Liquid preparation for degerming cutaneous surfaces. Sindar Corporation. 574,222, May 12; Serial No. 614,851, published Jan. 20, 1953.

Lotion for treating the skin. J. W. Brooks & Co. Incorporated. 92,041, re-renewed June 17, 1953. O. G. May 12.

Medical preparation. Morgan Products Corp. 574,439, May 12; Serial No. 619,677.

Medicated ointment. The Pharma-Craft Corporation. 574,157, May 12; Serial No. 561,484, published Nov. 1, 1949.

Medicated scalp and skin formula. Sorge Enterprises, Inc. 574,466, May 12; Serial No. 633,794.

Medicinal and pharmaceutical preparations. The Bowman Brothers Drug Co. 574,405, May 12; Serial No. 637,424, published Feb. 10, 1953.

Medicinal ointment. The Ayer Company. 302,546, renewed Apr. 25, 1953. O. G. May 12.

Medicinal preparation. Organon Inc. 574,384, May 12; Serial No. 633,165, published Jan. 27, 1953.

Medicine for the cure of all blood and skin diseases, etc. The Swift Specific Co. 40,050, re-renewed Apr. 7, 1953. O. G. May 12.

Penicillin derivative. Bristol Laboratories Inc. 574,299, May 12; Serial No. 626,306, published Feb. 10, 1953.

Penicillin - dihydrostreptomycin implantation pellets. Wyeth Incorporated. 574,268, May 12; Serial No. 622,967, published Jan. 20, 1953.

Pharmaceutical preparation. J. H. de Giorgi. 305,000, renewed July 25, 1953. O. G. May 12.

Pharmaceutical preparation. J. H. de Giorgi. 305,012, renewed July 25, 1953. O. G. May 12.

Pharmaceutical preparation. Charles C. Haskell & Co., Inc. 353,588, Jan. 11, 1938. Republished May 12.

Pharmaceutical preparation. Charles C. Haskell & Co., Inc. 363,165, Dec. 13, 1938. Republished May 12.

Pharmaceutical preparation. R. R. Schallenberger. 574,317, May 12; Serial No. 627,280, published Feb. 17, 1953.

Pharmaceutical preparation. Torigian Laboratories, Inc. 574,385, May 12; Serial No. 633,228, published Jan. 27, 1953.

Pharmaceutical preparation, Analgesic - antipyretic. Charles C. Haskell & Co., Inc. 348,498, July 27, 1937. Republished May 12.

Pharmaceutical preparation, Sedative-hypnotic. Charles C. Haskell & Co., Inc. 347,618, June 29, 1937. Republished May 12.

Pharmaceuticals, Various radioactive. Abbott Laboratories. 574,297, May 12; Serial No. 626,015, published Feb. 3, 1953.

Preparation for stomach distress. G. R. Kempton. 574,244, May 12; Serial No. 620,043, published Feb. 3, 1953.

Preparation for the medical management of biliary disease. Maltbie Laboratories, Inc. 574,159, May 12; Serial No. 566,351, published Jan. 20, 1953.

Preparation for the relief of eye irritations. Winthrop-Stearns Inc. 574,316, May 12; Serial No. 626,972, published Feb. 3, 1953.

Preparation for the treatment of anemia. Wilber Co. Inc. 345,285, Apr. 20, 1937. Republished May 12.

Preparations in liquid form for use in orchido-therapeutics. Societe Biopharma. 574,236, May 12; Serial No. 617,515, published Feb. 3, 1953.

Remedy used to cure animal sarcoptic mange. E. H. Bradford. 574,370, May 12; Serial No. 631,964, published Feb. 10, 1953.

Sedative. American Cyanamid Company. 574,382, May 12; Serial No. 632,709, published Jan. 20, 1953.

Streptomycin-kaolin - alumina gel - pectin combination. Wyeth Incorporated. 574,201, May 12; Serial No. 608,231, published Feb. 3, 1953.

Supplement to stock feed. E. L. M. Stores. 574,178, May 12; Serial No. 597,436, published Dec. 9, 1952.

Tablets for the treatment of constipation. The Glessner Company. 574,429, May 12; Serial No. 607,497.

Tablets taken internally. Baray Pharmacal Corporation. 569,896, Feb. 3, 1953. Corrected. O. G. May 12.

Thiacetazone product prepared for use in medicine and pharmacy. Boots Pure Drug Company Limited. 574,207, May 12; Serial No. 610,409, published Jan. 27, 1953.

Vaginal tablet, Therapeutic. The Purdue Frederick Company. 574,355, May 12; Serial No. 630,022, published Feb. 17, 1953.

Vitamin and anti-biotic enriched hog feed supplement. Dannen Mills, Inc. 574,237, May 12; Serial No. 617,603, published Jan. 20, 1953.

Vitamin compounds and vitamin preparations. Eastman Kodak Company. 574,245, May 12; Serial No. 620,405, published Jan. 20, 1953.

Vitamin concentrates. Commercial Solvents Corporation. 574,230, May 12; Serial No. 616,366, published Jan. 20, 1953.

Vitamin preparation. Horton-Edward Company. 574,342, May 12; Serial No. 629,282, published Feb. 3, 1953.

Vitamin preparation. The Wander Company. 574,296, May 12; Serial No. 625,776, published Feb. 3, 1953.

Vitamin preparation, Multiple. Parke, Davis & Company. 574,394, May 12; Serial No. 634,108, published Feb. 10, 1953.

CLASS 19

Aircraft cabin pressurization systems. Pacific Airmotive Corporation. 574,158, May 12; Serial No. 562,147, published Aug. 21, 1951.

Automobile windshield anti-headlight-glare shields. The Edro Corporation. 574,423, May 12; Serial No. 553,829.

CLASS 21

Apparatus adapted to be mounted on, and to supply electric current to, railway cars, etc. Waukesha Motor Company. 574,246, May 12; Serial No. 620,447, published Feb. 10, 1953.

Batteries, Automobile storage. Laber Spring and Tire Corporation. 574,175, May 12; Serial No. 592,267, published Feb. 10, 1953.

Batteries, Electric dry. Burgess Battery Company. 574,449, May 12; Serial No. 625,189.

Battery caps for electrical storage batteries, Catalyst. Industrial Research, Inc. 574,262, May 12; Serial No. 621,963, published Feb. 10, 1953.

Butter warmers, Electrically heated. Duiane, Inc. 574,432, May 12; Serial No. 610,205.

Castor oil, which is used as a dielectric in electrical equipment. The Baker Castor Oil Company. 574,258, May 12; Serial No. 621,612, published Feb. 17, 1953.

Commercial electrically operated apparatus. The Kent Company, Inc. 574,238, May 12; Serial No. 618,583, published Feb. 17, 1953.

Condensers and resistors, Electrical. Erie Resistor Corporation. 574,330, May 12; Serial No. 628,350, published Feb. 10, 1953.

Electrical apparatus. Signal Electric Manufacturing Co. 574,198, May 12; Serial No. 606,177, published Feb. 17, 1953.

Electrical appliances. McGraw Electric Company. 574,220, May 12; Serial No. 614,259, published Feb. 17, 1953.

Electrical sound-reproducing apparatus with speaker or earphones, etc. Modernophone, Inc. 574,180, May 12; Serial No. 598,028, published Feb. 10, 1953.

Electrically-operated apparatus. Teleprompter Corporation. 574,209, May 12; Serial No. 610,645, published Feb. 10, 1953.

Electrically operated equipment. Telautograph Corporation. 444,771, May 12; Serial No. 523,490, published Feb. 3, 1953.

Electrically operated phonograph record players. Rek-O-Kut Company. 574,227, May 12; Serial No. 615,903, published Feb. 10, 1953.

Engines, Electric. Klamath Iron Works. 574,424, May 12; Serial No. 581,532.

Flasher-light unit. The Winko-Matic Signal Company. 574,447, May 12; Serial No. 624,983.

Lamps, Electric. Wilmar Co., Inc. 574,288, May 12; Serial No. 625,055, published Feb. 17, 1953.

Magnet or solenoid operated valves. Automatic Switch Company. 230,629, Dec. 20, 1927. Republished May 12.

Magnetic separator for conduits. Cesco. 574,239, May 12; Serial No. 618,840, published Feb. 17, 1953.

Motor generators, transmitters, and receiver control units. McGraw Electric Company. 574,171, May 12; Serial No. 590,513, published Feb. 17, 1953.

Oven, Infra-red. American Brake Shoe Company. 574,426, May 12; Serial No. 599,478.

Percolators, Electric. Continental Silver Co. Inc. 574,422, May 12; Serial No. 553,464.

Recorder heads, Magnetic medium, phonograph pickup cartridges, etc. Shure Brothers, Incorporated. 574,164, May 12; Serial No. 578,718, published Feb. 10, 1953.

Telephone appliance. R. A. B. Heap. 574,433, May 12; Serial No. 611,423.

CLASS 22

Artificial bait. The Enterprise Manufacturing Company. 302,121, renewed Mar. 28, 1953. O. G. May 12.

Artificial fish lure. The Ross Bait Manufacturing, Co. 574,208, May 12; Serial No. 610,524, published Feb. 10, 1953.

Fishing lines. Newton Line Company Incorporated. 574,162, May 12; Serial No. 568,527, published Feb. 3, 1953.

Fishing reels. The Enterprise Manufacturing Company. 301,751, renewed Mar. 14, 1953. O. G. May 12.

Shuffleboards. American Shuffleboard Company. 574,462, May 12; Serial No. 630,373.

Toy, Child's'. American Metal Specialties Corporation. 574,467, May 12; Serial No. 634,621.

CLASS 23

Clutch assemblies, clutch driven discs, multiple disc clutches, etc. Borg-Warner Corporation. 574,225–6, May 12; Serial Nos. 615,684–5, published Jan. 20, 1953.

Cultivators, harrows, mowers, etc. Deere & Company. 91,859, re-renewed June 3, 1953. O. G. May 12.

Farm machinery. Hi-Lo Equipment Company. 574,146, May 12; Serial No. 532,932, published Feb. 17, 1953.

Flatware of base metal. Imperial Knife Company, Inc. 574,454, May 12; Serial No. 627,136.

Lawn mowers, Power. J. M. Burkett. 574,465, May 12; Serial No. 633,752.

Machines, known as check-protectors for printing limiting amounts on bank checks, etc. G. W. Todd & Company. 92,147, re-renewed June 17, 1953. O. G. May 12.

Milking machines, teat cups, and parts thereof. The De Laval Separator Company. 574,331, May 12; Serial No. 628,523, published Feb. 3, 1953.

Milling machines. The Monomelt Co. Inc. 574,338, May 12; Serial No. 629,034, published Feb. 3, 1953.

Plows, cultivators, harrows, etc. Deere & Company. 91,860–1, re-renewed June 3, 1953. O. G. May 12.

Pump. The Griffith Laboratories, Inc. 373,327, Dec. 5, 1939. Republished May 12.

Rolls for forming threads, oil grooves or the like, and holders and adaptors for such rolls, etc. L. W. Bedker. 574,168, May 12; Serial No. 588,124, published Feb. 3, 1953.

Screw drivers. E. Burke. 574,450, May 12; Serial No. 625,398.

Sewing machine needles. Union Special Machine Company. 301,990, renewed Mar. 21, 1953. O. G. May 12.

Stainless steel cutlery. H. E. Lauffer Co., Inc. 574,460, May 12; Serial No. 629,440.

Stapling machines. Markwell Manufacturing Co., Inc. 574,300, May 12; Serial No. 626,333, published Feb. 3, 1953.

Tools, Riveting. Aviation Developments Limited. 574,234, May 12; Serial No. 616,893, published Dec. 30, 1952.

Transmission apparatus and explosion-motors. Minerva Motors. 89,131, re-renewed Nov. 12, 1952. O. G. May 12.

CLASS 25

Latches and buckles, Locking. Aircraft Armaments, Inc. 574,368, May 12; Serial No. 631,592, published Feb. 17, 1953.

Lock sets, Door, French window lock sets, wardrobe locks, etc. Sears, Roebuck and Co. 574,219, May 12; Serial No. 614,106, published Feb. 17, 1953.

Locks. J. Chesler & Sons, Inc. 574,425, May 12; Serial No. 593,974.

CLASS 27

Clocks. Pennwood Numechron Co. 574,160, May 12; Serial No. 567,129, published Feb. 3, 1953.

Paint enamels and varnishes. Sherwin-Williams Co. 303,686, renewed June 6, 1953. O. G. May 12.

Clocks, Boudoir, desk, and mantle, watches and parts thereof. Stolz Freres, S. A. Fabrique d'Horlogerie Angelus. 574,395, May 12; Serial No. 634,498, published Feb. 3, 1953.
Watches. Kingston Watch Co. 574,398, May 12; Serial No. 634,645, published Feb. 3, 1953.
Watches and clocks. Concord Watch Co., Inc. 574,396, May 12; Serial No. 634,521, published Feb. 3, 1953.
Watches, Wrist. M. Robbin. 574,387, May 12; Serial No. 633,466, published Feb. 10, 1953.

CLASS 28

Bracelets and watch bracelets and watch straps. Gemex Company. 574,391, May 12; Serial No. 634,043, published Feb. 3, 1953.
Diamonds. I. Schiffman. 574,451, May 12; Serial No. 625,439.
Necklaces, bracelets not including watches, earrings, etc. Coro, Inc. 574,315, May 12; Serial No. 626,860, published Feb. 3, 1953.
Pearls, Simulated, and ornaments. Artiac Inc. 574,377, May 12; Serial No. 632,462, published Feb. 10, 1953.
Rings and mountings therefor, Finger. Mayer Bros. 574,400, May 12; Serial No. 635,044, published Feb. 10, 1953.
Rings, Diamond. U. S. Jewelry Co., Inc. 574,402, May 12; Serial No. 635,281, published Feb. 10, 1953.
Rings, Finger. H. Rotter. 574,374, May 12; Serial No. 632,176, published Feb. 3, 1953.
Rings, Finger. 20th Century Novelty Co. 574,401, May 12; Serial No. 635,121, published Feb. 10, 1953.

CLASS 29

Brushes, Paint. Gerts Lumbard & Co. 574,375, May 12; Serial No. 632,369, published Feb. 17, 1953.

CLASS 30

China table ware and ornamental China ware. Onondaga Pottery Company. 302,608, renewed Apr. 25, 1953. O. G. May 12.
Chinaware. Grandma Moses Properties, Inc. 574,307, May 12; Serial No. 626,625, published Feb. 3, 1953.

CLASS 32

Bookcases, Sectional, and filing-cabinets. Yawman & Erbe Mfg. Co. 40,325, re-renewed May 12, 1953. O. G. May 12.
Chairs, Rocking, arm-chairs, bathroom chairs, etc. Million-Guiet-Tubauto. 574,153, May 12; Serial No. 557,943, published Feb. 17, 1953.
Furniture, Living room, dining room, and bed room. Wycombe, Meyer, Inc. 414,445, June 12, 1945. New certificate. O. G. May 12.
Venetian blinds and Venetian blind assemblies. R. Rosenberg. 571,726, Mar. 10, 1953. Corrected. O. G. May 12.

CLASS 33

Glass fruit preserving jars. The United Glass Bottle Manufacturers Limited. 574,434, May 12; Serial No. 613,269.
Glass tableware. Anchor Hocking Glass Corporation. 574,174, May 12; Serial No. 592,117, published Feb. 3, 1953.
Glassware. Anchor Hocking Glass Corporation. 574,148, May 12; Serial No. 551,603, published Feb. 3, 1953.

CLASS 34

Burners, Laboratory. Central Scientific Company. 303,752, renewed June 6, 1953. O. G. May 12.

CLASS 35

Boot-like lubricant seals. Collord, Incorporated. 574,459, May 12; Serial No. 629,090.
Hose, made wholly or partly of rubber, etc. The B. F. Goodrich Company. 90,692, re-renewed Mar. 18, 1953. O. G. May 12.
Hose, Rubber, and hose assemblies. Stratoflex, Inc. 574,379, May 12; Serial No. 632,634, published Feb. 17, 1953.
Hose, Wire reinforced rubber. Socony-Vacuum Oil Company, Incorporated. 574,408, May 12; Serial No. 637,842, published Feb. 17, 1953.
Piston ring groove inserts. Sealed Power Corporation. 574,254, May 12; Serial No. 621,337, published Feb. 17, 1953.
Tires and inner tubes, Automobile. Aldens, Inc. 574,471, May 12; Serial No. 642,120.
Tires, Pneumatic. The General Tire & Rubber Company. 574,311, May 12; Serial No. 626,668, published Feb. 17, 1953.

CLASS 36

Musical instruments, Woodwind. Linton Mfg. Co., Inc. 574,362, May 12; Serial No. 631,058, published Feb. 17, 1953.
Phonograph records, Grooved. Gramercy Records, Inc. 574,407, May 12; Serial No. 637,708, published Feb. 10, 1953.
Phonograph records, Grooved, and non-electrical and non-magnetized recording wire and recording tape, etc. C. Schous Fabriker A/S. 574,194, May 12; Serial No. 604,335, published Feb. 17, 1953.
Phonograph records, Mechanically grooved. Pacific Union Conference of Seventh-Day Adventists. 574,346, May 12; Serial No. 629,556, published Feb. 17, 1953.
Phonographic tapes, Grooved, recorded, plastic. L. H. Ottofy. 574,151, May 12; Serial No. 557,204, published Feb. 17, 1953.
Pianos. R. H. Macy & Co., Inc. 574,109, May 12; Serial No. 589,221, published Feb. 17, 1953.
Wind instruments. L. Leblanc. 574,154, May 12; Serial No. 557,979, published Feb. 17, 1953.

CLASS 37

Crayons. The American Crayon Company. 574,468, May 12; Serial No. 636,325.
Envelopes and file folders, Expanding, file folders, pocket file folders, etc. American Fiber-Velope Mfg. Co. 574,280, May 12; Serial No. 624,625, published Feb. 10, 1953.
Loose-leaf folders and blank forms. P. Wilz. 574,365, May 12; Serial No. 631,192, published Feb. 10, 1953.
Paper, Box cover. The Champion Paper and Fibre Company. 574,352, May 12; Serial No. 629,839, published Feb. 10, 1953.
Paper, drawing-paper, pencil-paper, etc. J. C. Blair Company. 92,520, re-renewed July 15, 1953. O. G. May 12.
Paper, drawing-paper, pencil-paper, etc. J. C. Blair Company. 92,522–3, re-renewed July 15, 1953. O. G. May 12.
Paper, drawing-paper, pencil-paper, etc. J. C. Blair Company. 92,626, re-renewed July 22, 1953. O. G. May 12.
Paper, Greaseproof. Malanco, Inc. 574,191, May 12; Serial No. 602,563, published Feb. 10, 1953.
Paper hangings. The Wallpaper Manufacturers Limited. 89,521, re-renewed Dec. 17, 1952. O. G. May 12.
Paper napkins, paper table cloths and paper guest towels. Paper Art Company, Inc. 574,150, May 12; Serial No. 556,406, published Feb. 10, 1953.
Paper, pH testing. J. Einstein. 574,281, May 12; Serial No. 624,637, published Feb. 10, 1953.
Paper towels, toilet papers. Creco Company, Inc. 302,375, renewed Apr. 18, 1953. O. G. May 12.
Philatelic and numismatic equipment and supplies. M. Meghrig & Sons. 574,145, May 12; Serial No. 525,639, published Feb. 10, 1953.
Plastic containers—namely, cases for holding pens and pencils. A. G. Mayer, Inc. 574,266, May 12; Serial No. 622,611, published Feb. 10, 1953.

CLASS 38

Magazine. Union Special Machine Company. 304,292, renewed June 27, 1953. O. G. May 12.
Magazines. Association of the Junior Leagues of America, Inc. 328,331, Sept. 24, 1935. Republished May 12.
Periodical, Fashion. National Modes, Inc. 372,360, Oct. 31, 1939. Republished May 12.

CLASS 39

Belts, Men's and boys'. Wellmade Leather Goods Co., Inc. 574,218, May 12; Serial No. 613,578, published Feb. 3, 1953.
Blouses, shirtwaists, and waists, Ladies'. Lerner Blouse Co. 574,333, May 12; Serial No. 628,698, published Feb. 17, 1953.
Clothing and furnishings, Boys' and men's, and for women's, misses', and children's wearing apparel, etc. Kirby, Block & Fischer, Inc. 302,617, renewed Apr. 25, 1953. O. G. May 12.
Coats, Men's sport. Lin-Lite, Inc. 574,273, May 12; Serial No. 623,311, published Feb. 10, 1953.
Coats, suits, dresses, blouses, etc., Women's and misses'. Siegel-Shulman, Inc. 574,343, May 12; Serial No. 629,395, published Feb. 10, 1953.
Corsets, corselets, girdles, etc. Vanity Corset Company, Inc. 574,366, May 12; Serial No. 631,510, published Feb. 10, 1953.
Corsets, girdles, and brassières. A/S Figfort, Figurkomfort Korsettfabrikk. 574,215, May 12; Serial No. 611,553, published Feb. 17, 1953.
Dresses, coats, skirts, etc., Women's. Societe Anonyme Jeanne Lanvin. 574,367, May 12; Serial No. 631,519, published Feb. 10, 1953.
Dungarees. Reliance Manufacturing Company. 574,369, May 12; Serial No. 631,688, published Feb. 10, 1953.
Gloves, Ladies'. The Superb Glove Company. 574,251, May 12; Serial No. 621,037, published Feb. 10, 1953.
Gloves, Work. Wells Lamont Corporation. 574,161, May 12; Serial No. 568,137, published Feb. 10, 1953.
Gowns, Bridal, and evening gowns. Gowns by Priscilla of Boston, Inc. 574,193, May 12; Serial No. 603,922, published Mar. 4, 1952.
Handkerchiefs. Eli L. Sandler & Co., Inc. 574,177, May 12; Serial No. 597,169, published Feb. 3, 1953.
Handkerchiefs, Lace, and lace scarfs. David E. Schwab & Co. Inc. 574,248, May 12; Serial No. 620,860, published Feb. 10, 1953.
Lingerie, Little girls'. W. H. Schlegel. 574,336, May 12; Serial No. 628,962, published Feb. 10, 1953.
Outerwear, Boys' and girls' knitted. Playmore Knits of California, Inc. 574,357, May 12; Serial No. 630,209, published Feb. 10, 1953.
Panties, slips, gowns, etc., Girls' and misses'. Edison Textiles, Inc. 574,332, May 12; Serial No. 628,682, published Feb. 17, 1953.

Scarfs and kerchiefs. Glenader Textile Corp. 574,347, May 12; Serial No. 629,669, published Feb. 10, 1953.
Shirts, sleeping shirts and pants, T-shirts, etc., Infants', young boys', young girls', men's, and women's under and outer. Wonderknit Corporation. 574,373, May 12; Serial No. 632,138, published Feb. 10, 1953.
Skirts, Women's and misses'. Daryl Dress Company. 574,199, May 12; Serial No. 607,122, published Feb. 10, 1953.
Suits and overalls, Children's play. Morton Karten, Incorporated. 574,290, May 12; Serial No. 625,206, published Feb. 10, 1953.
Suits, Men's. H. Daroff & Sons, Inc. 304,925–6, renewed July 25, 1953. O. G. May 12.
Sweaters, Women's and misses' knitted. Olympic Knitwear, Inc. 574,372, May 12; Serial No. 632,096, published Feb. 10, 1953.
Swim suits, outer shorts, play suits, etc., Gabardine and other cloth. T. D. McKeever. 355,133, Mar. 8, 1938. Republished May 12.
Underwear, Infants', children's, boys', and girls'. Little Miss Uadles, Inc. 574,259, May 12; Serial No. 621,830, published Feb. 10, 1953.
Underwear, Women's and misses'. Van Raalte Company, Inc. 574,272, May 12; Serial No. 623,219, published Feb. 10, 1953.
Uniforms, Ladies' and misses', and uniform dresses. White Swan Uniforms, Inc. 574,335, May 12; Serial No. 628,885, published Feb. 10, 1953.
Wearing apparel, Ladies'. Schlesinger Brothers. 574,156, May 12; Serial No. 560,135, published Jan. 1, 1952.

CLASS 40

Comb and hair brush, Combination hair. Iris Edwards, Inc. 574,427, May 12; Serial No. 603,618.
Embroidery-work, knitting-work, crocheting-work, etc. Bernhard Ulmann Co. Inc. 119,830, Dec. 11, 1917. Republished May 12.

CLASS 42

Carpets, All wool, all cotton, all acetate rayon, and/or acetate rayon and nylon combined. James Lees and Sons Company. 574,195, May 12; Serial No. 604,973, published Feb. 17, 1953.
Carpets and rugs, Textile. Callaway Mills Company. 574,353, May 12; Serial No. 629,932, published Feb. 17, 1953.
Cotton duck. The W. A. Handley Manufacturing Company. 574,397, May 12; Serial No. 634,592, published Feb. 17, 1953.
Cotton piece and cotton dress goods. Pacific Mills. 90,469, re-renewed Feb. 25, 1953. O. G. May 12.
Curtains, Window. Cameo Curtains, Inc. 574,445, May 12; Serial No. 622,740.
Fabrics, Textile. Crown Fabrics Corporation. 574,456, May 12; Serial No. 627,177.
Fabrics, Textile. Dan River Mills, Incorporated. 574,403, May 12; Serial No. 636,118, published Feb. 17, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 574,278, May 12; Serial No. 624,471, published Feb. 17, 1953.
Fabrics, Textile. D. B. Fuller & Co., Inc. 574,469–70, May 12; Serial Nos. 636,254–5.
Fabrics, Textile. Hafner Fabrics Corporation. 574,277, May 12; Serial No. 624,232, published Feb. 17, 1953.
Piece goods. Haythornthwaite & Sons, Limited. 303,343, renewed May 23, 1953. O. G. May 12.
Piece goods. I. P. Bemberg Aktiengesellschaft. 300,270, renewed Jan. 10, 1953. O. G. May 12.
Piece goods, Cotton and rayon. American Bleached Goods Company, Inc. 574,443, May 12; Serial No. 621,853.
Rugs and carpets. Calico Center, Inc. 574,455, May 12; Serial No. 626,978.
Sheets, Bed, textile sheeting, pillow cases, etc. Dan River Mills, Incorporated. 574,260–1, May 12; Serial Nos. 621,053–4, published Feb. 10, 1953.

CLASS 43

Yarn and mixtures thereof, Wool, worsted, angora, cotton, etc. Steinberger Bros. Inc. 305,080, renewed Aug. 1, 1953. O. G. May 12.
Yarn, Cotton. Kureha Spinning Co., Ltd. 574,210, May 12; Serial No. 610,742, published Feb. 10, 1953.
Yarn, Cotton. Kureha Spinning Co., Ltd. 574,211, May 12; Serial No. 610,750, published Feb. 10, 1953.
Yarn, Knitting. Pauline Denham Yarns. 574,359, May 12; Serial No. 630,588, published Feb. 10, 1953.
Yarns, Rayon. American Enka Corporation. 306,191, renewed Sept. 12, 1953. O. G. May 12.

CLASS 44

Dental burs, Impression compounds, scaling instruments, etc. The Ransom & Randolph Company. 300,906, renewed Feb. 14, 1953. O. G. May 12.
Dental supplies. The S. S. White Dental Manufacturing Company. 300,886, renewed Feb. 14, 1953. O. G. May 12.
Flexible, elongated, electrical heating pad. A. S. Rogelt. 574,446, May 12; Serial No. 624,207.
Hearing aids, Electronic. The Dahlberg Company. 574,463, May 12; Serial No. 633, 534.
Hypodermic needles. G. W. Jacoby, Jr. 574,371, May 12; Serial No. 632,086, published Feb. 3, 1953.
Respirators. G. H. Morgan. 574,428, May 12; Serial No. 607,461.
Rupture appliances. Brooks Rupture Appliance Co. 89,337, re-renewed Dec. 10, 1952. O. G. May 12.
Surgical pads, Absorbent. W. J. Aagesen. 574,448, May 12; Serial No. 625,088.
Syringe, Plastic disposable. Abbott Laboratories. 574,356, May 12; Serial No. 630,178, published Feb. 3, 1953.
Wire composed of an alloy of precious metals for dental purposes. Coe Laboratories, Inc. 303,666–7, renewed June 6, 1953. O. G. May 12.
Wire composed of an alloy of precious metals for dental purposes. Coe Laboratories, Inc. 303,669, renewed June 6, 1953. O. G. May 12.

CLASS 45

Beverage, Non-alcoholic, non-cereal, maltless. Santa Cola Company. 444,770, May 12; Serial No. 519,900, published Dec. 9, 1947.
Ginger beer. Santa Cola Company. 574,149, May 12; Serial No. 553,313, published Mar 7, 1950.
Soft drinks, Maltless, and carbonated waters. Clicquot Club Company. 574,267, May 12; Serial No. 622,881, published Feb. 17, 1953.
Table waters, Still and effervescent. J. Ries Bottling Works, Inc. 574,165, May 12; Serial No. 579,215, published Jan. 27, 1953.

CLASS 46

Bakery products. The Grissol Bread Specialties, Ltd. 574,271, May 12; Serial No. 623,050, published Feb. 17, 1953.
Beef steaks, Frozen. Armour and Company. 574,192, May 12; Serial No. 603,277, published Feb. 10, 1953.
Biscuits, candies, chocolates, etc. R. A. Johnston Company. 574,231, May 12; Serial No. 616,601, published Feb. 10, 1953.
Butter and oleomargarine. May-Zur-Mark Co. 574,250, May 12; Serial No. 620,924, published Feb. 10, 1953.
Candy. Tom Huston Corporation. 303,301, renewed May 23, 1953. O. G. May 12.
Canned dog and cat food. Northwest Packing Co. 425,018–19, Oct. 29, 1946. Republished May 12.
Canned fish, canned fruits, canned vegetables, etc. F. & M. Importing Co. Inc. 300,713, renewed Feb. 7, 1953. O. G. May 12.
Canned salmon. Whitney & Company. 574,334, May 12; Serial No. 628,801, published Feb. 17, 1953.
Canned soup, and preserved watermelon rind. The Murray Hill White Turkey. 574,203, May 12; Serial No. 608,483, published Feb. 10, 1953.
Chewing gum. Private Brands, Inc. 571,302, Mar. 3. Corrected. O. G. May 12.
Confection. Coble Dairy Products, Inc. 574,305, May 12; Serial No. 626,608, published Feb. 10, 1953.
Confections, Frozen. Georgia-Carolina Dairies. 300,962, renewed Feb. 14, 1953. O. G. May 12.
Dates. Schroeder Bros., Inc. 574,350, May 12; Serial No. 629,819, published Feb. 10, 1953.
Doughnuts and glazed doughnut twists. Flower-Maid Bakery Products, Inc. 574,430, May 12; Serial No. 608,349.
Feed, Hog. Kellogg Company. 574,453, May 12; Serial No. 626,679.
Feed, Rabbit. Pillsbury Mills, Inc. 574,179, May 12; Serial No. 597,860, published Feb. 3, 1953.
Fish (skin on), Frozen whole, frozen fish fillet (skinless), and frozen whale meat. Norsk Frossenfisk A/L. 574,204, May 12; Serial No. 609,136, published Feb. 3, 1953.
Flavoring extracts. Flavor Corporation of America. 574,341, May 12; Serial No. 629,160, published Jan. 13, 1953.
Flour, Self-rising pancake. The Light Grain & Milling Co. 301,337, renewed Feb. 28, 1953. O. G. May 12.
Flour, Wheat. Pillsbury Mills, Inc. 574,247, May 12; Serial No. 620,621, published Feb. 3, 1953.
Flour, Wheat. Shellabarger Mill & Elevator Company. 262,464, Oct. 15, 1929. Republished May 12.
Flour, Wheat. Wells Flour Milling Company. 74,619, July 27, 1909. Republished May 12, 1953.
Flour, Wheat. Wells Flour Milling Company. 82,033, May 23, 1911. Republished May 12, 1953.
Food products. H. C. Brill Company, Inc. 574,214, May 12; Serial No. 611,120, published Feb. 10, 1953.
Food product. Delsey Distributors. 574,309–10, May 12; Serial Nos. 626,661–2, published Feb. 10, 1953.
Fruit, Fresh citrus. Crafton Mutual Orchards. 333,695, Mar. 31, 1936. Republished May 12, 1953.
Fruit, Fresh citrus. Crafton Mutual Orchards. 350,047, Sept. 14, 1937. Republished May 12, 1953.
Fruits, Fresh Citrus. F. Hill Packing Company. 574,437, May 12; Serial No. 617,661.
Hams. Hughes-Curry Packing Co. 302,654, renewed Apr. 25, 1953. O. G. May 12.
Ice cream, ice cream sundaes, and ice cream cones. J. Bond. 574,282, May 12; Serial No. 624,674, published Feb. 10, 1953.
Ice cream, ice cream sundaes, and ice cream cones. J. Bond. 574,283, May 12; Serial No. 624,676, published Feb. 10, 1953.
Macaroni and spaghetti. Kellogg Company. 574,216, May 12; Serial No. 612,457, published Feb. 10, 1953.

Pineapples and papayas, Fresh. Sea View Farms, Ltd. 574,388, May 12; Serial No. 633,740, published Feb. 10, 1953.

Popcorn, Caramel flavored. King Kone Corporation. 574,242, May 12; Serial No. 619,760, published Feb. 10, 1953.

Powdered emulsifying composition for emulsifying fats into food products. The Griffith Laboratories, Inc. 376,205, Mar. 12, 1940. Republished May 12, 1953.

Salad and cooking oil. Corn Products Refining Company. 303,300, renewed May 23, 1953. O. G. May 12.

Salad oil. F. Cappellino & Sons. 364,300, Jan. 24, 1939. Republished May 12, 1953.

Salt. York and Company. 298,666, renewed Nov. 1, 1952. O. G. May 12.

Tea, coffee, cocoa, etc. J. Tetley & Co., Inc. 303,631, renewed May 30, 1953. O. G. May 12.

Vegetables and melons, Fresh. Dorman Farms Co. 375,188, Feb. 13, 1940. Republished May 12, 1953.

Vinegar, Red wine, red wine vinegar flavored with tarragon, etc. F. H. Johnson. 574,147, May 12; Serial No. 551,384, published Feb. 10, 1953.

Wheat-flour. Imbs Milling Company. 90,993, re-renewed Apr. 8, 1953. O. G. May 12.

CLASS 47

Champagne, Red. Paul Masson, Inc. 574,217, May 12; Serial No. 613,080, published Jan. 20, 1953.

CLASS 49

Alcoholic beverages. Joseph E. Seagram & Sons, Inc. 574,181, May 12; Serial No. 598,929, published Feb. 17, 1953.

Cordial. Sheffield Dentifrice Co. 92,728, re-renewed July 22, 1953. O. G. May 12.

Cocktails containing rum and gin, Bottled. J. C. Wilson. 574,212, May 12; Serial No. 610,880, published Jan. 27, 1953.

Liqueurs. Les Heritiers de Marie Brizard & Roger, Achard, Glotin & Cie. 574,233, May 12; Serial No. 616,716, published Feb. 17, 1953.

Whiskey. United Distillers (of America) Ltd. 574,354, May 12; Serial No. 629,977, published Feb. 10, 1953.

Whisky. John Gillon & Co. Limited. 303,266, renewed May 16, 1953. O. G. May 12.

Whisky. Sandeman & Sons Limited. 304,290, renewed June 27, 1953. O. G. May 12.

Whisky, Scotch. William Grant & Sons Limited. 574,152, May 12; Serial No. 557,523, published Feb. 17, 1953.

CLASS 50

Baby identification beads and rubber sheetings. Hospital Equipment Corporation. 574,243, May 12; Serial No. 619,835, published Feb. 17, 1953.

Lids for open cans of foods. De Roy Manufacturing Co. 574,228, May 12; Serial No. 616,084, published Feb. 3, 1953.

Mats, electrotypes, stereotypes, etc. A. B. Collins. 302,093, renewed Mar. 28, 1953. O. G. May 12.

Pen or brooder, Assembled. Chas. Pfizer & Co., Inc. 574,313, May 12; Serial No. 626,746, published Feb. 3, 1953.

CLASS 51

Cologne. Helena Rubinstein, Inc. 574,172, May 12; Serial No. 591,050, published Jan. 13, 1953.

Cologne, perfume, face powder, etc. G. E. Samar. 574,436, May 12; Serial No. 616,133.

Deodorant, Dog. H. Raskin. 574,291, May 12; Serial No. 625,225, published Jan. 13, 1953.

Eau de cologne. Ferd Mülhens, Inc. 300,579, renewed Jan. 24, 1953. O. G. May 12.

Face and dusting powders, dry and cream rouges, lipsticks, etc. Federated Department Stores, Inc. 574,286, May 12; Serial No. 624,879, published Jan. 13, 1953.

Face powder, cold cream, vanishing cream, etc. Lovely Lady, Inc. 358,044, June 28, 1938. Republished May 12.

Facial make-up base. Lever Brothers Company. 574,308, May 12; Serial No. 626,630, published Jan. 27, 1953.

Hair straightening cream. Perma-Strate Company. 574,287, May 12; Serial No. 624,968, published Jan. 13, 1953.

Hair treating article. Edgar Products. 574,364, May 12; Serial No. 631,152, published Jan. 20, 1953.

Hair waving kits, Children's home permanent. Gillette Safety Razor Company. 574,276, May 12; Serial No. 624,083, published Feb. 17, 1953.

Lotion, Foaming bath and hand. Northern Laboratories. 574,312, May 12; Serial No. 626,698, published Feb. 17, 1953.

Lotion, Hand. E. Lavin. 349,854, Sept. 7, 1937. Republished May 12, 1953.

Perfume. E. Smetisko (Smith). 574,292, May 12; Serial No. 625,302, published Jan. 13, 1953.

Perfumes. R. Hudnut. 39,745, re-renewed Feb. 3, 1953. O. G. May 12.

Perfumes. Les Parfums Jacques Fath (Société à Responsabilité Limitée). 574,188, May 12; Serial No. 601,109, published Feb. 3, 1953.

Sun tan lotion, Greaseless. H. D. Koenig. 574,452, May 12; Serial No. 625,606.

Toilet preparations. E. A. Kirstein. 363,691, Jan. 3, 1939. New certificate. O. G. May 12. (Formerly Class 6.)

Toilet waters, Florida water; cod liver oil, porous plasters, etc. Lanman & Kemp. 90,713–14, re-renewed Mar. 18, 1953. O. G. May 12.

CLASS 52

Cleaner, Painted wall and woodwork. Earl Grissmer Co. 574,229, May 12; Serial No. 616,206, published Feb. 17, 1953.

Cleaner, Stone. Chas. V. Zink & Sons. 574,304, May 12; Serial No. 626,550, published Feb. 17, 1953.

Cleanser, antiseptic, and deodorant, Chemical germicidal. The Griffith Laboratories, Inc. 350,750, Oct. 5, 1937. Republished May 12.

Detergent chemical composition, Alkaline non-corrosive. The Griffith Laboratories, Inc. 350,537, Sept. 28, 1937. Republished May 12.

Detergent preparation. Physicians and Hospitals Supply Company, Inc. 574,339, May 12; Serial No. 629,038, published Feb. 10, 1953.

Phosphatic preparation for application to metal surfaces for cleaning and forming a permanent coating thereon. Parker Rust Proof Company. 574,301, May 12; Serial No. 626,335, published Feb. 17, 1953.

Soap. Colgate-Palmolive-Peet Company. 304,891, renewed July 18, 1953. O. G. May 12.

Soap and synthetic washing powder, Combination. Essential Chemicals Co. 574,163, May 12; Serial No. 573,872, published Feb. 17, 1953.

Soap, Laundry and toilet. Colgate-Palmolive-Peet Company. 304,701, renewed July 18, 1953. O. G. May 12.

Soap, Medicinal and toilet. E. T. Browne Drug Company Inc. 305,091, renewed Aug. 1, 1953. O. G. May 12.

Soap, Solvent, and waterproofing agents. C. H. Stone. 396,400, July 14, 1943. Republished May 12.

Solventa used in dry cleaning. J. B. Hyde. 574,322, May 12; Serial No. 627,883, published Feb. 10, 1953.

CLASS 100

Mortuary and funeral direction services. Streeper Funeral Homes. 514,417, May 12; Serial No. 616,733, published Feb. 17, 1953.

CLASS 103

Spraying on insulation in buildings in general. Sprayo-Flake Company. 574,415–16, May 12; Serial Nos. 614,520–1, published Feb. 17, 1953.

CLASS 104

Radio and television broadcasting service. Allen B. Du Mont Laboratories, Inc. 574,420, May 12; Serial No. 626,498, published Feb. 17, 1953.

Television program broadcasting services. Southern Radio & Television Equipment Company. 574,418, May 12; Serial No. 619,041, published Feb. 17, 1953.

CLASS 106

Fabrication of material handling conveyers and material handling equipment. Mathews Conveyer Company. 574,414, May 12; Serial No. 607,712, published Feb. 17, 1953.

Treating fabric. Triangle Finishing Corp. 574,419, May 12; Serial No. 625,500, published Feb. 17, 1953.

CLASS 107

Entertainment service. J. Musial. 574,413, May 12; Serial No. 597,971, published Feb. 17, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Dow Corning Corporation, assignee: *See*—
Speier, John L., Jr.

Firestone Tire & Rubber Company, The, assignee: *See*—
Wohler, Leonard A., and Schmidt.

Schmidt, Ernst: *See*—
Wohler, Leonard A., and Schmidt.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Trimethylsilylphenoxy esters. Re. 23,654, May 12.

Thornley, Edwin M., Joliet, Ill. Ballast removing apparatus. Re. 23,655, May 12.

Wohler, Leonard A., Bath Township, Summit County, and E. Schmidt, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Amines as gel-shrinkage reducing agents in synthetic-rubber sponge. Re. 23,656, May 12.

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc., assignee: *See*—
Weeks, O. L.

Craig, Robert, Company, Inc., assignee: *See*—
Rahbek, Frode.

Eller, Walter H., Yakima, Wash. Pear tree. 1,184, May 12.

Rahbek, Frode, Primos, assignor to Robert Craig Company, Inc., Norwood, Pa. Saintpaulia plant. 1,187, May 12.

Weeks, O. L., Chino, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 1,185, May 12.

White, Carl, Walla Walla, Wash. Juniper plant. 1,186, May 12.

LIST OF DESIGN PATENTEES

Angelus, William N., Alma, Mich. Combination broiler and toaster. 169,528, May 12.

Bankers Box Company, assignee: *See*—
Fellowes, John E.

Baron, Jack, New York, N. Y. Tumbling toy. 169,529, May 12.

Bassick Company, The, assignee: *See*—
Deadrick, James R.

Belling and Lee Limited, assignee: *See*—
Fountain, Leslie A., and Phillips.

Burgess Vibrocrafters, Inc., assignee: *See*—
Folli, Arthur J.

Case, Emerson E., assignor to Robeson Cutlery Company, Inc., Perry, N. Y. Knife sharpener. 169,530, May 12.

Cohen, Jos. S., & Sons Co., Inc., assignee: *See*—
Keyserling, Leroy.

Coro, Inc., assignee: *See*—
Kats, Adolph.

Cunningham, Marcus M., assignor of one-third to J. R. Main and one-third to A. S. Moody, Houston, Tex. Cooling basin for air-conditioning unit. 169,531, May 12.

Deadrick, James R., Winston-Salem, N. C., assignor to The Bassick Company, Bridgeport, Conn. Drawer pull. 169,532, May 12.

Deadrick, James R., Winston-Salem, N. C., assignor to The Bassick Company, Bridgeport, Conn. Drawer pull. 169,533, May 12.

Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Perfume vial. 169,534, May 12.

Disch, John E., assignor to Daniel Green Company, Dolgeville, N. Y. Slipper or similar article. 169,535, May 12.

Edison, Thomas A., Incorporated, assignee: *See*—
Otto, Carl L.
Somers, Richard M.

Edson, Bert, Pawtucket, R. I. Lace or similar article. 169,536, May 12.

Farnsworth, Herbert, Norwalk, Conn. Lace. 169,537, May 12.

Fellowes, John E., Wheaton, assignor to Bankers Box Company, Chicago, Ill. Drawer pull handle. 169,538, May 12.

Folli, Arthur J., Chicago, assignor to Burgess Vibrocrafters, Inc., Lake Zurich, Ill. Knife and scissors sharpener. 169,539, May 12.

Fountain, Leslie A., and D. Phillips, assignors to Belling and Lee Limited, Enfield, England. Combined vacuum tube extractor and terminal pin straigbtener. 169,540, May 12.

Grace, Michael P., assignee: *See*—
Del Mas, Christy M.

Green, Daniel, Company, assignee: *See*—
Disch, John E.

Handler, Elliot, Los Angeles, Calif. Toy automobile. 169,541, May 12.

Henning, Paul F. W., Chicago, Ill. Seal. 169,542, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,543, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,544, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,545, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,546, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,547, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,548, May 12.

Kats, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,549, May 12.

Kats, Bernard, assignor to World Wide Plastics Corporation, Chicago, Ill. Coin holder attachment for automobile visors or the like. 169,550, May 12.

Kendrick, Marron, Atherton, Calif., assignor to Schlage Lock Company. Doorknob. 169,551, May 12.

Keyserling, Leroy, assignor to Jos. S. Cohen & Sons Co., Inc., New York, N. Y. Display bin. 169,552, May 12.

King-Seeley Corporation, assignee: *See*—
Sivacek, Emil E.

Lagussi, Mario, assignor to Poirette Corsets, Inc., New York, N. Y. Girdle. 169,553, May 12.

Littlejohn, William C., Los Angeles, assignor to Regis Plastics Corporation, Beverly Hills, Calif. First-aid kit or similar article. 169,554, May 12.

Lyon, George A., Detroit, Mich. Wheel cover member or similar article. 169,555, May 12.

Main, John R., assignee: *See*—
Cunningham, Marcus M.

Maling, Roy, Chestnut Hill, Mass. Shoe or similar article. 169,556, May 12.

Matthews, Yvone, New York, N. Y. Set of playing cards. 169,557, May 12.

Moody, Alvin S., assignee: *See*—
Cunningham, Marcus M.

Nagel-Chase Manufacturing Company, The, assignee: *See*—
Schultz, Edward H., Jr.

Nagler, Bruno, New York, N. Y. Toy helicopter. 169,558, May 12.

Otto, Carl L., New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Sound translating machine. 169,559, May 12.

Phillips, Douglas: *See*—
Fountain, Leslie A., and Phillips.

Poirette Corsets, Inc., assignee: *See*—
Lagussi, Mario.

Prus, Thomas A., Strathclair, Manitoba, Canada. Combined pepper-and-salt shaker. 169,560, May 12.

Raymond, Gladys V., assignee: *See*—
Raymond, Horace J.

Raymond, Horace J., deceased, late of Concord, Calif., by G. V. Raymond, assignee, Concord, Calif. Tamper for chopping machines. 169,561, May 12.

Regis Plastics Corporation, assignee: *See*—
Littlejohn, William C.

Rieck, Waldemar C., Douglaston, N. Y. Educational spelling appliance or similar article. 169,562, May 12.
Robeson Cutlery Company, Inc., assignee: *See*—
Case, Emerson E.
Robinson, Percy W., Toledo, Ohio. Combined handkerchief box and tie rack. 169,563, May 12.
Schlage Lock Company, assignee: *See*—
Kendrick, Marron.
Schultz, Edward H., Jr., assignor to The Nagel-Chase Manufacturing Company, Chicago, Ill. Caster bracket. 169,564, May 12.
Sivacek, Emil E., assignor to King-Seeley Corporation, Ann Arbor, Mich. Corn popper. 169,565, May 12.
Somers, Richard M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Sound translating machine. 169,566, May 12.
Steadman, Audrey H., Anniston, Ala., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 169,567, May 12.
Stier, Joseph B., New York, N. Y. Bowl or similar article. 169,568, May 12.
Strathmeyer, Richard D., Springfield, Pa. Ring. 169,569, May 12.
United States Rubber Company, assignee: *See*—
Steadman, Audrey H.
Von Seekamm, Egon F., New York, N. Y., assignor to Willson Products, Inc., Reading, Pa. Pair of sunglasses. 169,570, May 12.
Willson Products, Inc., assignee: *See*—
Von Seekamm, Egon F.
World Wide Plastics Corporation, assignee: *See*—
Katz, Bernard.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A M I Incorporated, assignee: *See*—
Menosky, George.
Abbott, Berenice, assignor to House of Photography, Inc., New York, N. Y. Display mount. 2,638,299, May 12.
Able, Edward T.: *See*—
Sweeney, John F., Able, and MacKay.
Ace Art Company, assignee: *See*—
Spurr, Winfred F.
Acton, Russel D., Chicago, Ill., assignor to International Harvester Company. Control means for tractor-connected implements. 2,638,046, May 12.
Adkins, Homer B., Madison, Wis., assignor to the United States of America as represented by the Secretary of the Navy. Tetrachloroglycoluril derivatives as chlorine liberators in ointments. 2,638,434, May 12.
Aero Supply Mfg. Co. Inc., assignee: *See*—
Downey, George T., Rosengren, and Forrester.
Alburn, Harvey E., Philadelphia, Pa., assignor, by mesne assignments, to American Home Products Corporation, New York, N. Y. Alginic acid sulfate production. 2,638,469, May 12.
Alburn, Harvey E., Philadelphia, Pa., assignor, by mesne assignments, to American Home Products Corporation, New York, N. Y. Production of alginic acid sulfate. 2,638,470, May 12.
Alco Valve Company, assignee: *See*—
Vargo, Frank J.
Alford, Norman W., Houston, Tex. Deep well fishing tool. 2,638,373, May 12.
Allen, Victor O., Madison, assignor to Wilbur B. Driver Company, Newark, N. J. Electrical resistor element and producing the same. 2,638,425, May 12.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Schneider, Earl O.
Sikorra, Daniel J.
Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Stenkvist, Emil, and Gudmundsson.
Aluminum Company of America, assignee: *See*—
Zelley, Walter G.
Alvord, Grove D., Indiana, assignor to Syntron Company, Homer City, Pa. Continuous batch feeder control. 2,638,248, May 12.
American Brake Shoe Company, assignee: *See*—
Browne, Lindsay H.
American Cyanamid Company, assignee: *See*—
Millson, Henry E., and Mooradian.
American Electro Metal Corporation, assignee: *See*—
Hansgirg, Fritz J.
American Hard Rubber Company, assignee: *See*—
Cory, George L.
American Home Products Corporation, assignee: *See*—
Alburn, Harvey E.
American Steel Foundries, assignee: *See*—
Cottrell, Robert B.
American Telephone and Telegraph Company, assignee: *See*—
Martin, Wade B.
Ames, W. R., Company, assignee: *See*—
Sherman, Roger M., Mullgardt, and Gray.
Ammco Tools, Inc., assignee: *See*—
Billeter, Henry R.
Amos, James L., and C. T. Miller, assignors to The Dow Chemical Company, Midland, Mich. Copolymers of styrene and alpha-methyl styrene and making the same. 2,638,465, May 12.
Amos, James L., and C. T. Miller, assignors to The Dow Chemical Company, Midland, Mich. Copolymers of styrene and alpha-methyl styrene and making the same. 2,638,466, May 12.
Anderson, W. E., Inc., assignee: *See*—
Webster, Raymond C.
Anderson, William J., assignor, by mesne assignments, to A. E. Payne, Springfield, Ohio. Illuminated sign. 2,637,926, May 12.
Arenson, Herbert, and J. F. Witherspoon, assignors, by mesne assignments, to Childlore Company, Kansas City, Mo. Puppet golf ball projector. 2,638,348, May 12.
Armco Steel Corporation, assignee: *See*—
Corbitt, Willard M., and Wenning.
Armstrong, Clarence J., assignor to Sangamo Electric Company, Springfield, Ill. Synchronous motor carry-over clock. 2,637,968, May 12.
Armstrong Cork Company, assignee: *See*—
Gard, George E.
Armstrong, Joseph M.: *See*—
Stornetta, Leroy F. and J. R., and Armstrong.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Gonbau, Georg J. E.
Arnold, Hoffman & Co., Incorporated, assignee: *See*—
Ney, William O., Jr., Nummy, and Barnes.
Aronson, Alexander H., South Orange, assignor to Ronson Art Metal Works, Inc., Newark, N. J. Gas fueled cigar lighter. 2,637,990, May 12.
Atherton, Frank R.: *See*—
Morrison, Alexander L., and Atherton.
Atkins, S. Lawrence, assignee: *See*—
Murphy, Arthur J.
Atlantic Refining Company, The, assignee: *See*—
Ramser, John H.
Aubrey, Richard, Jr., and V. J., Boardman Township, Mahoning County, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Extensometer for cylindrical members. 2,637,907, May 12.
Aubrey, Venice J.: *See*—
Aubrey, Richard, Jr., and V. J.
Automatic Temperature Control Co., Inc., assignee: *See*—
Macgeorge, William D., and Roessler.
Avco Manufacturing Corporation, assignee: *See*—
Schipper, Robert J., and Stacy.
Avondoglio, Leo, Verona, N. J., assignor to Curtiss-Wright Corporation. Aircraft cowling seal. 2,638,287, May 12.
Babcock & Wilcox Company, The, assignee: *See*—
Waldron, Stoddard S.
Baird, Donald A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Brake holding device. 2,638,119, May 12.
Baisch, John C., Whittier, Calif. Tubular tear strip remover with overlapping edges. 2,638,244, May 12.
Baker Perkins Inc., assignee: *See*—
Cox, Bradley G.
Baker Perkins Limited, assignee: *See*—
Tunley, Allan A.
Baldwin, John C., Bluefield, Va. Reamer. 2,638,327, May 12.
Baldwin, William G., Wilkinsburg, Pa. Spirit plumbing tool and level. 2,637,912, May 12.
Ball, Charles F., Franklin, Pa., and E. M. Luce, Dallas, Tex., assignors to Joy Manufacturing Company, Pittsburgh, Pa. Chuck mechanism for an oil well drilling apparatus. 2,638,324, May 12.
Ball, Charles W., assignee: *See*—
Rahfuse, Eugene T.
Ballard, Randall C., Trenton, N. J., assignor to Radio Corporation of America. Pulse echo altimeter with mechanically driven indicator. 2,638,587, May 12.
Ballard, Seaver A., Orinda, and B. P. Geyer, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Preparation of esters of beta-oxy aldehydes. 2,638,479, May 12.
Ballou, B. A., & Co. Incorporated, assignee: *See*—
Morehouse, Eugene.
Bannon, Thomas C., Altadena, assignor of fifty per cent to L. Spencer, Los Angeles, Calif. Means and method of removing cores. 2,638,323, May 12.
Barber, Louis D., Burbank, Calif. Well perforator. 2,638,165, May 12.
Barford, Norman C.: *See*—
Pearce, Albert F., and Barford.
Barnes, Carl E.: *See*—
Ney, William O., Jr., Nummy, and Barnes.
Barnes & Reinecke, Inc., assignee: *See*—
Spannhake, Ernst W.
Barstow, Alva H.: *See*—
Barstow, Charles E., A. H., and A. K.
Barstow, Alva K.: *See*—
Barstow, Charles E., A. H., and A. K.
Barstow, Charles E., Portland, A. H. Barstow, Oceanlake, and A. K. Barstow, Portland, Oreg. Combined plow and soil pulverizer. 2,638,042, May 12.
Bartow Beacons Inc., assignee: *See*—
Bartow, John B., J. A., and MacLaughlin.
Bartow, Jack A.: *See*—
Bartow, John B., J. A., and MacLaughlin.
Bartow, John B. and J. A., Blue Bell, and G. D. MacLaughlin, Jr., Perkiomenville, assignors to Bartow Beacons Inc., Blue Bell, Pa. Directivity control of X-rays. 2,638,554, May 12.
Bassett, John: *See*—
Myers, Claude R., Dasse, and Bassett.
Battelle Development Corporation, The, assignee: *See*—
Walkup, Lewis E., and Wise.

Battle, Wingate, Atlantic Beach, Fla., assignor of twenty per cent to J. E. Veith, Arlington, Va., and twenty per cent to N. R. Bronle, St. Petersburg, Fla. Nursing bottle support. 2,638,296, May 12.

Batura, John, Pawtucket, R. I. Abrasive ribbon holder. 2,637,955, May 12.

Bausch & Lomb Optical Company, assignee: *See*—
Kieffer, Joseph D., III, and Strom.

Beachler, Forrest A., Bicknell, Ind. Fifth wheel coupling. 2,638,352, May 12.

Beaudrot, Charles L., Jr., Hapeville, Ga. Roller file. 2,638,280, May 12.

Bebech, Michael J., Masury, assignor to Poe Machine & Engineering Company, Cleveland, Ohio. Collapsible drum. 2,638,283, May 12.

Bech, Jørgen, Lyngby, Denmark. Guiding device for tool machines. 2,638,387, May 12.

Beck, Howard B., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Self-sealing window strip. 2,637,880, May 12.

Beecham Research Laboratories Limited, assignee: *See*—
Heilbron, Ian, Cook, and Levy.

Belits, Hans G.: *See*—
Davis, Oliver F., and Belitz.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Pierce, John R.

Bendix Aviation Corporation, assignee: *See*—
Teague, Walter D., Jr.

Benner-Nawman, Inc., assignee: *See*—
Thomson, John W.

Bents, Levi: *See*—
McCandless, James M., and Bents.

Benveniste, Jacob: *See*—
Jensen, Garold K., and Benveniste.

Beresny, Mischa N., Huntington Park, assignor to D. R. Shusett, Beverly Hills, Calif. Automatic car washer with air-actuated agitator. 2,637,873, May 12.

Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Case hardened cable connector and method. 2,638,367, May 12.

Bergmann, Richard F.: *See*—
Mnaschoot, Albert, Bergmann, and Young.

Berman, Oscar A., New York, N. Y. Cushions. 2,638,156, May 12.

Berrien Tool and Die Company, assignee: *See*—
Ferguson, Carl E., K., and R. C.

Berry, Forrest, Reading, Pa. Combination bug and air deflector. 2,638,376, May 12.

Bessey, Carlton E., Little Silver, N. J. Direct coupled amplifying system. 2,638,512, May 12.

Best, Robert C., Indianapolis, Ind. Mechanical lifting mechanism for dump trucks. 2,638,380, May 12.

Beveridge, William, Detroit, Mich. Quickly-demountable chain. 2,638,009, May 12.

Beyer, Millard L., Hempstead, N. Y. Geographical clock. 2,637,969, May 12.

Biggs, Ruth A., Elmira, N. Y. Oven lighter. 2,637,989, May 12.

Billsoly, Julius P.: *See*—
Starr, Charles E., Jr., McAdams, and Billsoly.

Billeter, Henry R., Highland Park, assignor to Ammco Tools, Inc., North Chicago, Ill. Cylinder surfacing tool. 2,637,953, May 12.

Billeter, Henry R., Highland Park, assignor to Ammco Tools, Inc., North Chicago, Ill. Rotatable hone. 2,637,954, May 12.

Bishop, Lewis H., and J. S. Finn, Burlingame, assignors, by mesne assignments, to W. H. Mead, Oakland, Calif. Surface treating apparatus. 2,637,948, May 12.

Blaton, Armand E. A., Woluwe-Saint-Pierre, Brussels, assignor of one-half to E. J. L. Blaton, Brussels, Belgium. Tensioning and anchoring wire bundles for prestressed concrete structural elements. 2,637,895, May 12.

Blaton, Emile J. L., assignee: *See*—
Blaton, Armand E. A.

Bloomberg, David J., Newton, Mass., assignor to General Electric Company. Turbine. 2,637,984, May 12.

Bocquel, René: *See*—
De France, Henri, and Bocquel.

Boehmer, Harold, Salt Lake City, Utah. Machine for delinking and segregating cartridges. 2,638,029, May 12.

Bolton, John W., & Sons, Inc., assignee: *See*—
Prevost, Bruno E.

Borchin, George, and E. A. Smith, Mokelumne Hill, Calif. Power driven wheelbarrow. 2,638,172, May 12.

Borders, Alvin M., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Compositions comprising blends of rubbery and resinous butadiene-styrene copolymers. 2,638,462, May 12.

Boretti, Napoleon P., assignor to General Motors Corporation, Detroit, Mich. Lubricator for pneumatic tools. 2,638,182, May 12.

Borg, George W., Corporation, The, assignee: *See*—
Gibbs, Thomas B., Dinerstein, and Gilman.

Borg-Warner Corporation, assignee: *See*—
Carnagua, Harold E., and Kelbel.
Koehlinger, William T.
Robertson, Fred O.

Borkowski, Casimer J., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Improved window for alpha particle counters. 2,638,560, May 12.

Bottaro, Giacomo, Genoa, Italy. Countercurrent extraction apparatus and process. 2,638,409, May 12.

Bowden (Engineers) Limited, assignee: *See*—
Meisom, Walter A.

Bowen, Joe, Huntington, W. Va., assignor to Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif. Jar capping apparatus. 2,638,258, May 12.

Bowman, John R., and W. P. Ridenour, Pittsburgh, Pa., and J. H. Whittaker, Lombard, Ill., assignors to Gulf Research & Development Company, Pittsburgh, Pa. Preparing petroleum wax compositions containing a small amount of a polyethylene. 2,638,450, May 12.

Bowser, Inc., assignee: *See*—
Harks, Walter M.

Boyles, Robert L., Framingham, Mass., assignor to General Electric Company. Combined friction drive and detent. 2,638,004, May 12.

Brace, Porter H., Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Heat-treating metals having difficultly reducible oxides. 2,638,420, May 12.

Brady, Thomas L., Henderson City, Ky. Combined spectacle frame and light. 2,638,532, May 12.

Brami, Joseph, Baltimore, Md., assignor to C. D. Zeitouni, Brooklyn, N. Y. Duplex loud-speaker. 2,638,510, May 12.

Bray, Frederick H., G. C. Hartley, and D. S. Ridler, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electrical storage of information on gas-filled tubes. 2,638,506, May 12.

Briggs Filtration Company, The, assignee: *See*—
Marvel, Harvey E.

Briggs, Stanley M., Pacific Palisades, Calif. Dispensing attachment for food container cans. 2,638,249, May 12.

Brinkoeter, Paul H., assignor to Ed Friedrich, Inc., San Antonio, Tex. Open front refrigerated cabinet. 2,637,982, May 12.

Bronle, Norman R., assignee: *See*—
Battle, Wingate.

Brook, Kenneth, Eastcote, and F. M. Evans, assignors to C. A. V. Limited, London, England. Filter for use in fuel injection pumps. 2,638,227, May 12.

Browder, John G., Honston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Distillation of aviation gasoline components. 2,638,412, May 12.

Browder, John G., Houston, and A. R. Smith, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Treatment of petroleum distillates. 2,638,439, May 12.

Brown, Barremore B.: *See*—
Donal, John S., Jr., Smith, and Brown.

Brown, George T., Jr.: *See*—
MacPhee, Paul A., and Brown.

Brown, Luther E., Greggton, Tex. Valve assembly. 2,638,116, May 12.

Browne, Lindsay H., Weston, Conn., assignor to American Brake Shoe Company, Wilmington, Del. Unloader for fluid compressors. 2,638,264, May 12.

Bruce, Donald S.: *See*—
Havemann, Robert A., and Bruce.

Bryant, Donald D., Huntington, W. Va. Snap-on dust guard. 2,638,363, May 12.

Buchanan, Josephine S., Sharon, Conn. Sectional collapsible pressing board. 2,637,919, May 12.

Buchele, Donald R., Cleveland, and W. M. Buchele, Toledo, Ohio. Unitary catadioptric objective lens system. 2,638,033, May 12.

Buchele, William M.: *See*—
Buchele, Donald R. and W. M.

Buckeye Steel Castings Company, The, assignee: *See*—
Wolfe, Harry H.

Bucky, Gustav, New York, N. Y. Automatic photographic unit having synchronized shutter and light source. 2,638,039, May 12.

Burger, Alfred, Charlotteaville, Va., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Thienyl and pyridyl esters. 2,638,471, May 12.

Burroughs Adding Machine Company, assignee: *See*—
Pasinski, Walter J.

Burtonshaw, Donald: *See*—
Stead, Ernest, Murray, and Burtonsbaw.

Bushore, Albert L., Riverside, assignor to F. J. Hart, San Bernardino, Calif. Apparatus for producing concrete roof tiles. 2,637,888, May 12.

Butterfield, John P., Grosse Pointe Woods, assignor to Chrysler Corporation, Highland Park, Mich. Piston. 2,638,392, May 12.

Butterfield, John P., Grosse Pointe Park, and V. Hughes, Pleasant Ridge, assignors to Chrysler Corporation, Highland Park, Mich. Automotive suspension system. 2,638,356, May 12.

Buttram, Millard F., Oneida, Tenn. Door hanging gauge. 2,637,910, May 12.

C. A. V. Limited, assignee: *See*—
Brook, Kenneth, and Evans.
Nicolls, Wilfrid E. W.

Cadman, Phillip B., Venice, Calif. Clothesline hanger. 2,638,230, May 12.

Calosi, Carlo L., Cambridge, assignor to Raytheon Manufacturing Company, Newton, Mass. Motor speed control. 2,638,568, May 12.

Campbell, Archibald C., Englewood, Colo. Cigarette lighter and case. 2,638,209, May 12.

Candy, Albert M., La Grange, assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill. Welding stud and arc welding. 2,638,525, May 12.

Cardosa, Frank: *See*—
Gordon, Elwin V., Simpson, and Cardosa.
Simpson, Robert D., Gordon, and Cardosa.
Simpson, Robert D., Gordon, Cardosa, and Jacobs.

Cardwell, Gilbert P.: *See*—
Dyche, Howard E., Jr., and Cardwell.

Carleton, Edward L.: *See*—
Urso, Ralph F., Gardes, and Carleton.

Carlisle, Richard W., assignor to Sonotone Corporation, Elmsford, N. Y. Vented casing and vaporproof enclosure for sound transducers. 2,638,508, May 12.

Carlson, Carl S.: *See*—
Drout, William M., Jr., Carlson, Scheeline, and Smith.

Carlson, David J.: *See*—
Prowinsky, Joseph H., and Carlson.

Carnagua, Harold E., and D. W. Kelbel, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Friction engaging device and control means therefor. 2,638,185, May 12.

Carroll, William A., Berkley, Mich. Fuel filter and demulsifier. 2,638,221, May 12.

Carter, Sidney T., Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Adhesive supply roller for labeling machine pickers. 2,638,073, May 12.

Carter, Sidney T., Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Article escapement mechanism for conveyers. 2,638,202, May 12.

Carva Ventures, Incorporated, assignee: *See*—
Crumbie, James H.

Cataldo, John B.: *See*—
O'Brien, Joseph F., Cataldo, and Vroom.

Celanese Corporation of America, assignee: *See*—
Jones, John E., and Stott.

Celia, William J., Huntington, N. Y. Crate, box, or similar container. 2,638,238, May 12.

Celia, William J., Huntington, N. Y. Crate or container. 2,638,239, May 12.

Cerveny, William J., Lansing, assignor to Standard Oil Company, Chicago, Ill. Production of high alcohols by improved oxo process. 2,638,488, May 12.

Chain Belt Company, assignee: *See*—
Klaucke, Hermann.

Chandler, Irvin B., Mankato, assignor to Minnesota Automotive, Inc., Minneapolis, Minn. Control mechanism for preventing motor vehicles from creeping with provision for maintaining a constant restraining force. 2,638,118, May 12.

Chapman Valve Manufacturing Company, The, assignee: *See*—
Nickerson, Elmer K.

Charlesworth, Reginald D., Dee Why, assignor to Magnavox (Australia) Pty. Ltd., East Sydney, New South Wales, Australia. Diaphragm unit for loud-speakers. 2,638,509, May 12.

Chater, John A., Medina, N. Y., assignor, by mesne assignments, to Food Machinery and Chemical Corporation, San Jose, Calif. Dusting machine. 2,637,933, May 12.

Checker Cab Manufacturing Corporation, assignee: *See*—
May, Vivian G.

Chicopee Manufacturing Corporation, assignee: *See*—
Rohs, Joseph F.

Chiddix, Max E., Easton, Pa., S. H. Hesse, Phillipsburg, and E. J. Seiferle, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Chemical composition. 2,638,486, May 12.

Childlore Company, assignee: *See*—
Arenson, Herbert, and Witherspoon.

Chrysler Corporation, assignee: *See*—
Baird, Donald A.
Butterfield, John P.
Butterfield, John P., and Hughes.
Dodt, Elmer C.
Forman, Louis B.
Gleason, Thomas C., Smith, and Isley.
Newton, Alwin B.
Schots, Otto W.

Chu, Lan J., Brookline, Mass., and M. A. Taggart, Indianapolis, Ind., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Pillbox antenna. 2,638,546, May 12.

Church, Walter L., Flint, Mich., assignor to General Motors Corporation, Dayton, Ohio. Electrical apparatus. 2,638,496, May 12.

Cities Service Oil Company, assignee: *See*—
Hughes, William B.

Clark, Charles A., Kanawha, Iowa. Box cover. 2,638,241, May 12.

Clark, Dalton H., Pontiac, Mich. Extrusion die for tubing. 2,638,213, May 12.

Clark, Earl T., Washington, D. C. Face lifting and hair curling device. 2,638,101, May 12.

Clark Equipment Company, assignee: *See*—
Dunham, Elmer J.
Williams, Alfred O.

Clark, William A., Detroit, Mich. Spring structure. 2,638,153, May 12.

Clark, William A., Detroit, Mich. Cushion spring structure. 2,638,155, May 12.

Clark, William H., San Mateo, Calif. Combination beam and shoring clamp. 2,638,063, May 12.

Clinghaer, Charles F., West Hartford, Conn., assignor to Emhart Manufacturing Company. Apparatus for forming glassware. 2,637,944, May 12.

Clayton Manufacturing Company, assignee: *See*—
Griswold, Donald G.

Cleveland Welding Company, The, assignee: *See*—
Janosek, Charles J.

Coberly, Clarence J., Los Angeles, assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Fluid operated pump control. 2,638,115, May 12.

Coffey, Henry F., assignor to Eli Lilly and Company, Indianapolis, Ind. Weighing device. 2,638,304, May 12.

Cohen, Max H., Los Angeles, Calif. Toothbrush construction. 2,637,870, May 12.

Cohn, Samuel, New York, and J. G. Walter, Ridgewood, assignors to Samcoe Holding Corporation, Woodside, N. Y. Fabric treating system. 2,637,991, May 12.

Coleman, Sidney B., Basking Ridge, N. J. Electronic noise suppressor. 2,638,501, May 12.

Coley, Harold: *See*—
Swift, William, and Coley.

Colgate-Palmolive-Peet Company, assignee: *See*—
Holbrook, Ralph W.
Ross, John.

Colin, Louis, Quimper, France. Retractable strake device. 2,638,384, May 12.

Collins, William F.: *See*—
Pool, Stuart D., and Collins.

Collis, J., & Sons Limited, assignee: *See*—
Collis, Leslie A.

Collis, Leslie A., Radlett, assignor to J. Collis & Sons Limited, London, England. Conveyer support. 2,638,204, May 12.

Commercial Patents Limited, assignee: *See*—
Jones, George F.

Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Davis, Oliver F., and Belitz.

Condra, Elmo L., Long Beach, Calif. Pipe cutter or reamer for use on crooked pipe. 2,638,320, May 12.

Condra, Elmo L., Long Beach, Calif. Oil well casing cutter for side windows. 2,638,322, May 12.

Conklin, Dean S., North Hollywood, assignor to Conklin Products Corporation, Los Angeles, Calif. Grapefruit knife. 2,637,899, May 12.

Conklin Products Corporation, assignee: *See*—
Conklin, Dean S.

Consolidated Edison Company of New York, Inc., assignee: *See*—
Thomas, Earl R.

Consolidated Engineering Corporation, assignee: *See*—
Turner, George K.

Container Corporation of America, assignee: *See*—
Poole, William J.

Continental Supply Company, The, assignee: *See*—
Sionneger, John C.

Cook, Arthur H.: *See*—
Heilbron, Ian, Cook, and Levy.

Cook, Wayne S., Grand Rapids, Mich., assignor to Sackner Products, Inc. Edge roll for upholstery and the like. 2,638,157, May 12.

Cooley, Austin G., New York, N. Y., and H. R. Dalton, Jenkintown, Pa., assignors to Timefax Corporation, New York, N. Y. Telefacsimile recording and duplicating paper and making same. 2,638,422, May 12.

Corbitt, Willard M., and E. C. Wenning, Ashland, Ky., assignors to Armco Steel Corporation, Middletown, Ohio. Organization for feeding heavy sheets, plates, and the like onto a conveyer. 2,638,234, May 12.

Corn, Jack C., Friend, Kans. Windbreak and livestock shade. 2,638,188, May 12.

Corning Glass Works, assignee: *See*—
Hinkley, Ray A.
Painter, Francis R.

Cortébert Watch Co., assignee: *See*—
Kocher, Hans.

Cory, George L., Erskine Lakes, N. J., assignor to American Hard Rubber Company, New York, N. Y. Preventing the occurrence of pin holes in thin, microporous hard rubber separators. 2,637,876, May 12.

Cottrell, C. B., & Sons Company, assignee: *See*—
Luehrs, Hans J.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Snubbed truck. 2,638,059, May 12.

Cowan, Ben, Montreal, Quebec, and A. Cunningham, Kenogami, Quebec, Canada. Screening and filtering apparatus. 2,638,226, May 12.

Cox, Bradley G., assignor to Baker Perkins Inc., Saginaw, Mich. Control mechanism for centrifugal charging valves. 2,638,225, May 12.

Cozart, Robert T., Jr., Goldsboro, N. C. Sewing machine attachment. 2,638,067, May 12.

Crain, Robert L., assignor to Gray Tool Company, Houston, Tex. Protector for oil well equipment. 2,638,169, May 12.

Crandall, Ronald E.: *See*—
McKellar, John D., and Crandall.

Crepps, Glenn M.: *See*—
Rochlin, Doris C., and Crepps.

Critchfield, Charles L., Chevy Chase, Md., assignor to the United States of America as represented by the Secretary of the Navy. Subcaliber projectile. 2,638,051, May 12.

Cronin, Eugene J., San Mateo, Calif. Magnetostriction apparatus. 2,638,567, May 12.

Crookston, Robert R., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Control mechanism for hydraulic systems of rotary drilling rigs. 2,638,319, May 12.

Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Butadiene polymers as elastomer additives. 2,638,460, May 12.

Crumbie, James H., Brooklyn, assignor to Carva Ventures, Incorporated, New York, N. Y. Manually energized and spring operated bicycle. 2,638,359, May 12.

Crumbliss, Ranza A., Chicago, Ill. Testing apparatus. 2,638,495, May 12.

Cuccia, Carmen L., Princeton, N. J., assignor to Radio Corporation of America. Apparatus for converting electrical frequency variations into amplitude variations. 2,638,539, May 12.

Cudebec, Clayde L., deceased, by A. W. Lane, administrator, Glendale, Calif. Closure remover with slidable toothed wheel. 2,638,023, May 12.

Cunningham, Adam: *See*—
Cowan, Ben, and Cunningham.

Curtis, Cecil C., Washington, D. C. Massage and heat applicator. 2,638,527, May 12.

Curtiss-Wright Corporation, assignee: *See*—
Avondoglio, Leo.
Sheets, Jack H.

Dale, Frank L., New York, and L. L. McMickle, Glendale, assignors to Mechanical Man, Inc., New York, N. Y. Animated figure. 2,637,936, May 12.

Dalton, Harold R.: *See*—
Cooley, Austin G., and Dalton.

Danielson, Vernon S., Dolton, and W. D. Wallace, Park Forest, assignors to W. H. Miner, Inc., Chicago, Ill. Draft and buffer rigging for vehicles. 2,638,353, May 12.

Dasse, Lester F.: *See*—
Myers, Claude R., Dasse, and Bassett.

Davies, Robert H., Aurora, assignor to The Parker Appliance Company, Cleveland, Ohio. Sealing means for cooperatively assembled parts of valve or comparable assemblies. 2,638,243, May 12.

Davis, Bruce E., Rising Sun, Md., and H. Mabe, Peach Bottom, Pa. Saw sharpener. 2,638,018, May 12.

Davis, Oliver F., Troy, and H. G. Bellz, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Method and apparatus for continuously plating irregularly shaped objects. 2,638,423, May 12.

Day, J. H., Company, Inc., The, assignee: *See*—
Rechtin, Clarence R.

Dayton Rubber Company, The, assignee: *See*—
Rockoff, Joseph.

Deal, Carl H., Jr.: *See*—
Nixon, Alan C., and Deal.

Dearborn Motors Corporation, assignee: *See*—
Richey, Clarence B.

De Back, William, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Rotary steam peeling machine. 2,638,137, May 12.

De Bay, Lucien L. C., Brussels, assignor to Les Glaceries De La Sambre, Societe Anonyme, Auvelais, Belgium. Process and machine for surfacing glass. 2,637,949, May 12.

Deck, Philibert, Zurich, Switzerland. Control device for printing rollers in printing machines. 2,638,048, May 12.

Dedo, Homer H., Merced, Calif. Lumber receiving table for double-ended tenoner. 2,638,135, May 12.

De France, Henri, and R. Bocquel, assignors to Society: "Tele-Industrie," S. A. R. L., Paris, France. Television recording. 2,638,498, May 12.

De Jen, Jean, Fairfield, Conn. Collapsible display and lecture stand. 2,638,300, May 12.

De Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Voeding, assignee: *See*—
Tollenaar, Frederik D.

De Peau, William H., and H. M. Pomeroy, Harrisburg, Pa. Radio antenna. 2,638,545, May 12.

De Ridder, Willem, The Hague, Netherlands. Dough measuring machine. 2,638,066, May 12.

Derjavitch, Boris: *See*—
Van Mierlo, Stanislas, and Derjavitch.

Detroit Controls Corporation, assignee: *See*—
Dillman, Ernest J.

Devereaux, George B.: *See*—
Larson, Harold J., and Devereaux.

De Vleg, Charles B., Farmington, Mich. Transmission unit. 2,638,010, May 12.

Dewees, Alexander H., Detroit, Mich. Construction in upholstered article such as a seat. 2,638,154, May 12.

Dian, Walter: *See*—
Harrison, Joseph R., Jr., and Dian.

Diethelm, Alois, Spokane, Wash. Turbine. 2,638,311, May 12.

Dill Manufacturing Company, The, assignee: *See*—
Smoleny, George J.

Dillard, James E., Memphis, Tenn. Throttle control means. 2,638,082, May 12.

Dillman, Earnest J., Detroit, Mich., assignor to Detroit Controls Corporation. Control device. 2,638,121, May 12.

Dinerstein, Samuel: *See*—
Gibbs, Thomas B., Dinerstein, and Gilman.

Dixon, Joseph, Crucible Company, assignee: *See*—
Hasselquist, Hugo S.

Dodt, Elmer C., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Remote control for transmissions. 2,638,013, May 12.

Dominion Electric Corporation, assignee: *See*—
Hanner, George E.

Donal, John S., Jr., Princeton, N. J., L. P. Smith, Ithaca, N. Y., and B. B. Brown, Lancaster, Pa., assignors to Radio Corporation of America. Tunable magnetron. 2,638,563, May 12.

Doolittle, Waddie W., Picayune, Miss., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Marine seismic surveying. 2,638,176, May 12.

Dorey, George B., Westmont, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Discharge outlet for railway cars. 2,638,060, May 12.

Dorr, James F., assignor of one-third to W. Seward, and one-third to M. W. Payne, San Jose, Calif. Intramedullary nail inserter. 2,638,092, May 12.

Doucette, Adrian R., Swissvale, Pa., assignor to Westinghouse Air Brake Company. Repeater apparatus for communication and signaling systems. 2,638,513, May 12.

Dow Chemical Company, The, assignee: *See*—
Amos, James L., and Miller.

Downey, George T., S. N. Rosengren, and R. E. Forrester, assignors to Aero Supply Mfg. Co. Inc., Corry, Pa. Fluid filter. 2,638,228, May 12.

Dreher, John A., Trucksville, Pa. Article packaging machine. 2,637,959, May 12.

Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.

Driver, Wilbur B., Company, assignee: *See*—
Allen, Victor O.

Drout, William M., Jr., Linden, C. S. Carlson, Elizabeth, H. W. Scheeline, West Orange, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Purification of crude aliphatic alcohols. 2,638,440, May 12.

Drusirup, Thomas G., Groton, Coun., assignor to Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Crystalline β-ionone. 2,638,483, May 12.

Dryden, Horace W., Modesto, Calif. Fowl marker. 2,637,922, May 12.

Duda, Michael, Newark, N. J. Nursery lamp. 2,638,530, May 12.

Dulleck, Albert C., Los Altos, Calif. Concrete form and stake therefor. 2,637,889, May 12.

Dunham, Elmer J., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Dual wheel drive with lubricating means. 2,638,173, May 12.

Duo-Vent Vacuum Closure Company, assignee: *See*—
Jesnig, Charles J.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
White, Clayton F. A., and Hill.

Dyche, Howard E., Jr., Pittsburgh, Pa., and G. P. Cardwell, Detroit, Mich., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stall warning apparatus for airplanes. 2,638,579, May 12.

Eby, Hugh H., Inc., assignee: *See*—
Ward, Charles J.

Edwards, Greene B., Jr., Tuskegee, Ala. Table signaling flashlight. 2,638,583, May 12.

Edwards, Harry D., assignor to Ilford Limited, Ilford, England. Methine dyestuffs. 2,638,473, May 12.

Eickemeyer, Ludwig: *See*—
Gottlieb, Joseph, Woessner, and Eickemeyer.

Electric & Musical Industries Limited, assignee: *See*—
Pearce, Albert F., and Barford.

Electro Refractories & Abrasives Corporation, assignee: *See*—
Roble, Norman P.

Eliot, Theodore Q., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Distillation process for separating butyraldehyde from ethyl acetate. 2,638,442, May 12.

Elkins, Lloyd E.: *See*—
Evans, John R., Elkins, and Klinzing.

Ellison Bronze Company, Inc., assignee: *See*—
Hanssen, Petter M.

Embart Manufacturing Company, assignee: *See*—
Claughsey, Charles F.

Engineering Research Associates, Inc., assignee: *See*—
Gutterman, Robert P.

Engler, Howard G., Short Hills, assignor to Engler Instrument Company, Jersey City, N. J. Hub odometer. 2,638,274, May 12.

Engler Instrument Company, assignee: *See*—
Engler, Howard G.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.
Zimmer, Albert E.

Ernst, Clare E., Flint, Mich. Process and apparatus for photoelectric engraving. 2,638,500, May 12.

Essary, John L.: *See*—
Evans, Ray, and Essary.

Estee, Ralph G.: *See*—
Rounseville, Ellsworth A., and Estee.

Euson, John G.: *See*—
Skolmen, Torger, Roberts, and Euson.

Evans, Cyril G.: *See*—
Gordon, James E., and Evans.

Evans, Fraser M.: *See*—
Brook, Kenneth, and Evans.

Evans, John, Blawenburg, N. J., assignor to Radio Corporation of America. Color television system. 2,638,499, May 12.

Evans, John R., L. E. Elkins, and L. H. Klinzing, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Marine drilling. 2,637,978, May 12.

Evans Products Company, assignee: *See*—
Nampa, Sulo M.

Evans, Ray, and J. L. Essary, Knoxville, Tenn. Portable shower attachment. 2,638,382, May 12.

Ex-Cell-O Corporation, assignee: *See*—
Weilstein, Wilhelm.

Fairest, Morgan, assignor to Morgan Fairest Limited, Sheffield, England. Feed mechanism. 2,638,201, May 12.

Fairest, Morgan, Limited, assignee: *See*—
Fairest, Morgan.

Farm Production Engineers, Inc., assignee: *See*—
Gordon, Elwin V.
Gordon, Elwin V., Simpson, and Cardoza.
Simpson, Robert D., Gordon, and Cardoza.
Simpson, Robert D., Gordon, Cardoza, and Jacobs.

Farrel-Birmingham Company, Inc., assignee: *See*—
Hedman, Gustave H.

Faust, Ellwood L., Elmhurst, Ill., assignor to International Harvester Company. Feed control means for seed dispensers. 2,638,246, May 12.

Faximile, Inc., assignee: *See*—
Hester, Frank A.

Fellows Gear Shaper Company, The, assignee: *See*—
Miller, Edward W.

Ferguson, Carl E., K., and R. C., assignors to Berrien Tool and Die Company, Eau Claire, Mich. Ground working machine. 2,638,043, May 12.

Ferguson, Harry, Inc., assignee: *See*—
Heitshu, Daniel C.

Ferguson, Kendall: *See*—
Ferguson, Carl E., K., and R. C.

Ferguson, Robert C.: *See*—
Ferguson, Carl E., K., and R. C.

Ferguson, William H., assignee: *See*—
Spotts, Leo E.

Feustel, Ernest A., Hasbrouck Heights, N. J. Speed change and control mechanism. 2,638,006, May 12.

Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Straight course locator for airplanes. 2,638,590, May 12.

Fields, Irving: *See*—
Heitlinger, Eugene V., Fields, and Ray.

Fink, Herbert H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Seat suspension. 2,638,148, May 12.

Finn, John S.: *See*—
Bishop, Lewis H., and Finn.

Fish-Schurman Corporation, assignee: *See*—
Schröder, Hubert.

Fishbein, Meyer: *See*—
Northrop, John K., Fishbein, and Smith.

Fishwick, Robert, assignor to Victory Engineers Limited, London, England. Expanding reamer. 2,638,020, May 12.

Fishwood, Rollin W.: *See*—
Williams, Norman C., and Fishwood.

Fleming, Howard M., Jr., Basking Ridge, assignor to Monroe Calculating Machine Company, Orange, N. J. Shift register. 2,638,542, May 12.

Fletcher, Lynn L., assignor to Lowell Specialty Company, Lowell, Mich. Sprayer tank. 2,638,255, May 12.

Fluor Corporation, Ltd., The, assignee: *See*—
Frazier, Henry D.

Food Machinery and Chemical Corporation, assignee: *See*—
Chater, John A.
De Back, William.
Rankin, Dan R.

Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*—
Heidmann, Leon J.

Forman, Louis B., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle switching device. 2,638,516, May 12.

Forrester, Robert E.: *See*—
Downey, George T., Rosengren, and Forrester.

Fortney, Theodore N., Lansing, Mich. Intermittent electric light. 2,638,584, May 12.

Fortune, Ronald, Hamilton, Ontario, Canada. Diaphragm valve. 2,638,306, May 12.

Fortune, Ronald, Hamilton, Ontario, Canada. Diaphragm valve. 2,638,307, May 12.

Fortune, Ronald, Hamilton, Ontario, Canada. Coated valve member. 2,638,309, May 12.

Foss, Freeman C., Twin Falls, Idaho. Automatic variable pitch propeller. 2,638,171, May 12.

Fram, David: *See*—
Holschuh, Carl G., and Fram.

Framnton, Arthur G.: *See*—
Skinner, Roland W., and Framnton.

Francesco, John P., Haverhill, Mass., now by judicial change of name J. P. Francis. Sleeve fastener. 2,638,028, May 12.

Francis, John P.: *See*—
Francesco, John P.

Frazier, Henry D., Alhambra, assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Amine treating and dehydration of gases. 2,638,405, May 12.

Freas, Raymond L., Conshohocken, Pa. Buoyant chamber scuttling device. 2,637,862, May 12.

Friedewald, Vincent E., Big Spring, Tex. Card selecting mechanism. 2,638,215, May 12.

Friedman, Isidore I., Washington, D. C., and O. F. Tuttle, Kensington, Md. Synthesizing large single crystals of quartz. 2,638,408, May 12.

Friedrich, Ed, Inc., assignee: *See*—
Brinkoeter, Paul H.

Fry, Orris J., assignee: *See*—
Moser, George H.

Fugazzotto, Paul, Indianapolis, Ind. Antigen for determination of syphilis and making the same from yeast. 2,638,433, May 12.

Fugitt, Jay T., Renton, Wash. Animated amusement figure. 2,637,940, May 12.

Fuscaldo, Frank, Chicago, Ill. Hairpin. 2,638,103, May 12.

Gabrielsen, Christian, assignor to Rowe Manufacturing Co., Inc., Whippany, N. J. Sandwich vending machine. 2,638,396, May 12.

Gadomski, Peter A., South Bend, Ind. Luminous sign. 2,637,927, May 12.

Gard, George E., East Hempfield Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Method and apparatus for dielectric heating. 2,638,529, May 12.

Gardes, Alfred W.: *See*—
Urso, Ralph F., Gardes, and Carleton.

Garrett & Company, Inc., assignee: *See*—
Garrett, Robert W.

Garrett, Robert W., Scarsdale, assignor to Garrett & Company, Inc., Brooklyn, N. Y. Filling machine. 2,638,259, May 12.

Gates, George H., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Shoe sole composition. 2,638,457, May 12.

General Aniline & Film Corporation, assignee: *See*—
Chiddix, Max E., Heene, and Seiferle.
Glickman, Samuel A.

General Bronze Corporation, assignee: *See*—
Hess, Jacob.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Bloomberg, David J.
Boyles, Robert L.
Hauss, Walter.
Scott, Benjamin B.
Shelton, Winston L.
Wotring, Gaylord H.

General Mills, Inc., assignee: *See*—
Wheeler, Donald H.

General Motors Corporation, assignee: *See*—
Boretti, Napoleon P.
Church, Walter L.
Jewell, Gordon R.
Schoelles, Harold J.
Sprung, Edwin G.

General Nailing Machine Corporation, assignee: *See*—
Paxton, Gerald C.

General Precision Laboratory Incorporated, assignee: *See*—
Lombardi, Eugene H.

General Railway Signal Company, assignee: *See*—
Field, Oscar S.
Zaffarano, Frank P.

General Tire and Rubber Company, The, assignee: *See*—
Beck, Howard B.
Iredell, Robert, Jr.

George, Harry F., Chicago, Ill. Adjustable eye shield for protection against light glare. 2,638,377, May 12.

George, James T., Los Angeles, Calif. Pharmaceutical preparation for peptic ulcers. 2,638,433, May 12.

Gerber and Hora, assignee: *See*—
Hora, Josef.

Geyer, Bradford P.: *See*—
Ballard, Seaver A., and Geyer.

Giacchetti, Anacleto D., assignor to National Video Corporation, Chicago, Ill. Electrostatic lens for cathode-ray tubes. 2,638,559, May 12.

Gibbs, Thomas B., Delavan Lake, and S. Dinerstein, Delavan, Wis., and G. W. Gilman, Lake Wales, Fla., assignors to The George W. Borg Corporation, Chicago, Ill. Tapered conductor. 2,638,522, May 12.

Gibraltar Manufacturing Co., Inc., assignee: *See*—
Gottlieb, Joseph, Woessner, and Eickemeyer.

Gilman, George W.: *See*—
Gibbs, Thomas B., Dinerstein, and Gilman.

Giossi, Louis J., Brooklyn, N. Y. Combination scribing and compass unit. 2,637,906, May 12.

Glas-Kraft Inc., assignee: *See*—
Rounseville, Ellsworth A., and Estee.

Gleason, Thomas C., and R. H. Smith, Detroit, and M. J. Isley, Berkeley, assignors to Chrysler Corporation, Highland Park, Mich. Air heating furnace. 2,638,086, May 12.

Glickman, Mannes N., M. Klebanoff and S. W. Neidorf, Nutley, N. J. Hermetic seal having floatingly mounted socket contacts. 2,638,573, May 12.

Glickman, Samuel A., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing arylaminomethylenemalonates. 2,638,480, May 12.

Globe, Harold, Beverly Hills, Calif. Grinding catcher and shield. 2,637,852, May 12.

Goldberg, Nathan C., New York, N. Y. Spring mattress construction. 2,637,858, May 12.

Golden State Company, Ltd., assignee: *See*—
Kempf, Clayton A., Neidlinger, Stewart, and Sharp.

Goldman, Arnold: *See*—
Goodman, Jerome, and Goldman.

Goldsmith, Henry F., Philadelphia, Pa. Hair-net or the like and making same. 2,638,102, May 12.

Good Humor Corporation, assignee: *See*—
Otken, Edwin J.

Goodman, Jerome, and A. Goldman, Philadelphia, Pa., said Goldman assignor to said Goodman. Magnetic jewelry clasp. 2,637,887, May 12.

Goodman-Kleiner Company, Inc., assignee: *See*—
Marco, John L.

Goodrich, B. F., Company, The, assignee: *See*—
Fink, Herbert H.

Goodyear Aircraft Corporation, assignee: *See*—
Proebstle, Leonard J.

Gordon, Elwin V.: *See*—
Simpson, Robert D., Gordon, and Cardoza.
Simpson, Robert D., Gordon, Cardoza, and Jacobs.

Gordon, Elwin V., San Leandro, assignor to Farm Production Engineers, Inc., Oakland, Calif. Mechanism for separating air-borne materials. 2,638,181, May 12.

Gordon, Elwin V., and R. D. Simpson, San Leandro, and F. Cardoza, assignors to Farm Production Engineers, Inc., Hayward, Calif. Material separating apparatus. 2,638,219, May 12.

Gordon, James E., Fleet, and C. G. Evans, Farnborough, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Producing a metal facing on hardenable material. 2,638,428, May 12.

Gorman-Rupp Company, The, assignee: *See*—
Rupp, Warren E.

Gotter, John H., Abilene, Tex. Watch winding machine. 2,638,024, May 12.

Gottlieb, Joseph, Jersey City, C. Woessner, Bloomfield, and L. Eickemeyer, Union, assignors to Gibraltar Manufacturing Co., Inc., Jersey City, N. J. Adjustable sewing machine feed. 2,638,068, May 12.

Gouban, Georg J. E., Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army. Pulse modulation system. 2,638,572, May 12.

Grand Industries, Inc., assignee: *See*—
Kennedy, Emmett F.

Graver Tank & Mfg. Co., Inc., assignee: *See*—
Meyer, Amel R.

Graviner Manufacturing Company Limited, assignee: *See*—
Mathisen, Anders.

Gray, Cland W., San Bernardino, Calif. Safety brake for vehicles. 2,638,194, May 12.

Gray, Cloyd E.: *See*—
Sherman, Roger M., Mullgardt, and Gray.

Gray Tool Company, assignee: *See*—
Crain, Robert L.

Green, Lee B., Lakewood, Ohio. Bending machine having oscillating anvil die and reciprocable ironing die. 2,638,142, May 12.

Grewe, Rudolf, Kiel, Germany, assignor to Hoffman-La Roche Inc., Nutley, N. J. 1-benzyl-5,6,7,8-tetrahydroisoquinoline and derivatives thereof. 2,638,472, May 12.

Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Molded diaphragm structure. 2,638,127, May 12.

Grundmann, Christoph, Columbus, Ohio, assignor to Mathieson Chemical Corporation. Production of cyclohexanone oxime. 2,638,482, May 12.

Guanella, Gustav, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y. Distance and speed indicating system. 2,638,586, May 12.

Gudmundsson, Erik: *See*—
Stenkvist, Emil, and Gudmundsson.

Guedon, Noel, Newberg, Oreg. Combination mantle lamp and gas stove. 2,638,085, May 12.

Guess, Joseph R., Rosemead, Calif. Feed mechanism. 2,638,132, May 12.

Guibert, Francis W., Los Angeles, Calif. Adjustable compensator for registering meters. 2,638,008, May 12.

Guittar, Leroy, Sr., assignee: *See*—
Kearney, Walter T.

Gulf Oil Corporation, assignee: *See*—
Wagner, Bernard.

Gulf Research & Development Company, assignee: *See*—
Bowman, John R., Ridenour, and Whittaker.
Montgomery, Charles W., and Horne.

Gummed Products Company, The, assignee: *See*—
Havemann, Robert A., and Bruce.

Gutterman, Robert P., assignor to Engineering Research Associates, Inc., St. Paul, Minn. Method and apparatus for forming wire and the like. 2,638,207, May 12.

Hagen, Glenn E.: *See*—
Williams, Charles R., and Hagen.

Hagen, Otto B., Wauwatosa, and H. J. Multhauf, Milwaukee, Wis. Bottle filling device. 2,638,256, May 12.

Hague, Floyd T., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air dispersion inlet means for combustion apparatus. 2,637,975, May 12.

Hall, George L., Atlanta, Ga. Apparatus for the production of controlled saturated steam vapor. 2,638,383, May 12.

Hamilton, William F., Altadena, assignor to F. M. Turnbull, Los Angeles, Calif. Fabric cleaning stick and brush combination. 2,637,868, May 12.

Hancock Oil Company of California, The, assignee: *See*—
Taylor, Newcomb D.

Hanna, Clinton R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for craft operable in space. 2,638,288, May 12.

Hanner, George E., Mansfield, Ohio, assignor to Dominion Electric Corporation. Handle mechanism. 2,638,047, May 12.

Hansgirg, Fritz J., Black Mountain, N. C., assignor to American Electro Metal Corporation, Yonkers, N. Y. Processing metal powders. 2,638,424, May 12.

Hanssen, Petter M., Frewaburg, assignor to Ellison Bronze Company, Inc., Jamestown, N. Y. Balanced door. 2,637,877, May 12.

Hapman, Hannah J., assignee: *See*
Hapman, Henry W.

Hapman, Henry W., assignor, by mesne assignments, of 40 percent to H. J. Hapman, Detroit, Mich. Bucket conveyer. 2,638,205, May 12.

Haraden, George A., assignor to Holland Research Corporation, Denver, Colo. Reflector mounting structure. 2,638,534, May 12.

Hrasty, Julius, Westfield, N. J. Quench block. 2,638,337, May 12.

Harks, Walter M., Algona, Iowa, assignor to Bowser, Inc., Fort Wayne, Ind. Combined filter and hose reel. 2,638,229, May 12.

Harnischfeger Corporation, assignee: *See*—
Perkins, William J.

Harrington, Frank A.: *See*—
Lovejoy, Rex E., Smith, Harrington, and Harter.

Harris Transducer Corporation, The, assignee: *See*—
Harris, Wilbur T.

Harris, Wilbur T., assignor to The Harris Transducer Corporation, Southbury, Conn. Transducer. 2,638,577, May 12.

Harrison, Joseph R., Jr., Chicago, and W. Dian, Downers Grove, Ill.; said Dian assignor to said Harrison, Jr. Key holder. 2,637,994, May 12.

Harry, John B., Hastings on Hudson, N. Y., assignor to Union Carbide and Carbon Corporation. 2-norcamphanemethanol and 2-norcamphanemethoxyethanol applied to plants to inhibit fungous growths. 2,638,431, May 12.

Hart, Frank J., assignee: *See*—
Bushore, Albert L.

Harter, Jerry K.: *See*—
Lovejoy, Rex E., Smith, Harrington, and Harter.

Hartley, George C.: *See*—
Bray, Frederick H., Hartley, and Ridler.

Hartley, George C., and W. J. Reynolds, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., Binary multiplying circuit. 2,638,267, May 12.

Harts, Vernon O., Glendale, Calif. Variable fluid drive mechanism. 2,638,054, May 12.

Harvengt, Edmond, Mouatier-sur-Sambre, Belgium, assignor to Link-Belt Company, Chicago, Ill. Jigging apparatus. 2,638,214, May 12.

Hasselquist, Hugo S., Oak Park, Ill., assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Mechanical pencil with spiral feeding means. 2,638,074, May 12.

Hastings Manufacturing Co., assignee: *See*—
Phillips, Harold P.

Hausman, Walter J., Washington, D. C. Producing lithographic printing plates. 2,637,929, May 12.

Hauss, Walter, Syracuse, N. Y., assignor to General Electric Company. Acceleration sensing device. 2,638,556, May 12.

Havemann, Robert A., and D. S. Bruce, assignors to The Gummed Products Company, Troy, Ohio. Gummed tape serving mechanism. 2,638,145, May 12.

Hayes, Thomas E., Washington, D. C. Paper money counting machine. 2,638,344, May 12.

Heck, Lewis O., London, England. Indicator. 2,638,272, May 12.

Hedman, Gustave H., Kenmore, assignor to Farrel-Birmingham Company, Inc., Buffalo, N. Y. Cutter spacing checker. 2,637,908, May 12.

Heidegger, Henry F., Glen Ridge, assignor to International Projector Corporation, Bloomfield, N. J. Sprocket fastening means. 2,638,366, May 12.

Heidmann, Léon, Jeumont, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Electric locomotive. 2,638,056, May 12.

Holland Research Corporation, assignee: *See*—
Haraden, George A.

Heilbron, Ian, A. H. Cook, and A. L. Levy, assignors to Beecham Research Laboratories Limited, London, England. Process for the manufacture of organic nitrogen-containing compounds. 2,638,467, May 12.

Heindlhofer, Kalman, assignor to J. A. Zurn Manufacturing Company, Erie, Pa. Separating device. 2,638,177, May 12.

Heittinger, Eugene V., I. Fields, and A. C. Ray, Chicago, Ill. Window cornice and support. 2,638,162, May 12.

Heltahu, Daniel C., assignor to Harry Ferguson, Inc., Detroit, Mich. Auxiliary hydraulic load control and actuator for tractor drawn implements. 2,638,045, May 12.

Heltzel, Robert E., Warren, Ohio. Compression sealing gate for storage bins and hoppers. 2,638,254, May 12.

Hengstebeck, Robert J.: *See*—
Russum, Leonard W., and Hengstebeck.

Hercules Powder Company, assignee: *See*—
Nachod, Julius E., Jr.

Herkimer, Herbert, New York, N. Y. Air filter. 2,638,180, May 12.

Herr, Paul A., Lancaster, Pa. Humidifier. 2,638,331, May 12.

Herterick, Vincent R.: *See*—
Winkelmeyer, Robert D., and Herterick.

Hess, Frederic O., assignor to Selas Corporation of America, Philadelphia, Pa. Continuous furnace. 2,638,333, May 12.

Hess, Jacob, Forest Hills, assignor to General Bronze Corporation, Garden City, N. Y. Spring assembly. 2,637,875, May 12.

Hesse, Stanley H.: *See*—
Chiddix, Max E., Hesse, and Seiferle.

Hester, Frank A., assignor to Faximile, Inc., New York, N. Y. Variable frequency oscillator. 2,638,550, May 12.

Heusser, Wilfrid, Salt Lake City, Utah. Piston for internal-combustion engines. 2,638,391, May 12.

Hill-Jon Safety Crown Corporation, assignee: *See*—
Hill, Charles, and Johns.

Hill, Charles, Reno, Nev., and C. K. Johns, New York, assignors to Hill-Jon Safety Crown Corporation, Brooklyn, N. Y. Overload release coupling. 2,637,987, May 12.

Hill, John R.: *See*—
White, Clayton F. A., and Hill.

Hillier, Harold, assignor to G. & J. Weir Limited, Cathcart, Glasgow, Scotland. Liquid level regulator. 2,638,078, May 12.

Hinger, Roy E.: *See*—
Winkelman, Harvey E., and Hinger.

Hinkley, Ray A., assignor to Corning Glass Works, Corning, N. Y. Glass working machine. 2,637,942, May 12.

Hoague-Sprague Corporation, assignee: *See*—
Knowlton, Cutler D.

Hockery, John C., trustee, assignee: *See*—
Scott, Robert J.

Hoffmann, Edward J., and E. F. Wadley, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Hydrogenation of naphthas. 2,638,438, May 12.

Hoffmann-La Roche Inc., assignee: *See*—
Grewe, Rudolf.
Kimel, Walter.
Morrison, Alexander L., and Atherton.

Holbrook, Ralph W., New Albany, Ind., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Suction cleaning device for collapsible tubes. 2,637,872, May 12.

Hollar, Cyril W., Hickory, N. C. Glue applicator. 2,638,072, May 12.

Holschuh, Carl G., Huntington, and D. Fram, Brooklyn, N. Y., assignor to The Sperry Corporation. Ballistic mechanism. 2,638,269, May 12.

Holt, Sherwood G.: *See*—
Kammer, Erwin W., Vigness, and Holt.

Holt, William J., Jr., Garland, Tex. Control circuit for electric translating systems. 2,638,569, May 12.

Hoover Company, The, assignee: *See*—
White, Harry B.

Hora, Josef, deceased, late of Melide, Switzerland, by W. Trautwein, administrator, Burg, Post Kirchsarten, Breisgau, Germany, assignor to Gerber and Hora, Melide, Switzerland. Slide fastener. 2,637,886, May 12.

Hord, Joseph B., Maxton, N. C. Device for flushing drain-pipes. 2,638,126, May 12.

Horn, Joseph G., Drexel Hill, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system having a manual transfer valve. 2,638,117, May 12.

Horne, Richard C., Dallas, and D. F. Stoddard, Arlington, Tex., assignors to United Aircraft Corporation, East Hartford, Conn. Cockpit sealing system. 2,638,292, May 12.

Horne, William A.: *See*—
Montgomery, Charles W., and Horne.

Horydczak, Theodor, Washington, D. C. Portable camera support. 2,638,041, May 12.

Hostetler, Harry B.: *See*—
Whiteley, Robert L., and Hostetler.

Houldsworth, Wallace M., Royal Oak, Mich. Automatic dispenser for collapsible tubes. 2,638,250, May 12.

Houldsworth, Wallace M., Royal Oak, Mich. Hydraulic dispenser for collapsible tube containers. 2,638,251, May 12.

House of Photography, Inc., assignee: *See*—
Abbott, Berenice.

Hudson Motor Car Company, assignee: *See*—
Railton, Reid A.
Spring, Frank S.

Hughes Tool Company, assignee: *See*—
Priest, William F.

Hughes, Victor: *See*—
Butterfield, John P., and Hughes.

Hughes, William B., assignor to Cities Service Oil Company, Bartlesville, Okla. Resolving emulsions using azolidine salts of alkylated naphthalene sulfonic acids. 2,638,451, May 12.

Hurd, Charles D.: *See*—
Kreus, Kenneth L., and Hurd.

Hutt, Herman H., Brooklyn, N. Y. Display device. 2,637,924, May 12.

Ilford Limited, assignee: *See*—
Edwards, Harry D.

Ingram, Orville, Washington, D. C., assignor to Unitcast Corporation, Toledo, Ohio. Individually operated door for hopper cars. 2,638,061, May 12.

Institute of Paper Chemistry, The, assignee: *See*—
McKee, Robert C., and Sears.

International Harvester Company, assignee: *See*—
Acton, Russel D.
Faust, Ellwood L.
Jedrzykowski, Edmund.
Morkoski, James.
Orendorff, John W.
Pool, Stuart D., and Collins.
Toland, Wayne G.

International Projector Corporation, assignee: *See*—
Heidegger, Henry F.

International Standard Electric Corporation, assignee: *See*—
Bray, Frederick H., Hartley, and Ridler.
Hartley, George C., and Reynolds.
Van Mierlo, Stanislas, and Derjavitch.

Iredell, Robert, Jr., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Flexible shaft coupling. 2,637,986, May 12.

Isaacson, Herbert S., Levittown, N. Y. Combined cot and crib for automobiles. 2,637,857, May 12.

Isbell, Charles C., Long Beach, Calif. Underwater core barrel. 2,638,321, May 12.

Isley, Maynard J.: *See*—
Gleason, Thomas C., Smith, and Isley.

Jackson, Byron, Co., assignee: *See*—
Multinix, Gird E.

Jackson, John G., assignor to Square D Company, Detroit, Mich. Multipole circuit breaker. 2,638,519, May 12.

Jacobs, John H.: *See*—
Simpson Robert D., Gordon, Cardosa, and Jacobs.

James, Edward M., Winchester, Mass., assignor to Lever Brothers Company, New York, N. Y. Refining oils with "versene." 2,638,476, May 12.

Janosek, Charles J., assignor to The Cleveland Welding Company, Cleveland, Ohio. Tubular metal chair frame. 2,638,149, May 12.

Jedrzykowski, Edmund, Chicago, Ill., assignor to International Harvester Company. Turbine wheel. 2,636,312, May 12.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jensen, Garold K., Pinecrest, Va., and J. E. McGeogh, Silver Spring, Md. Dual-channel counting rate meter. 2,638,273, May 12.

Jensen, Garold K., and J. Benveniste, United States Navy. Squelch circuit. 2,638,543, May 12.

Jensen, Jack H.: *See*—
Rost, David J., and Jensen.

Jesnig, Charles J., Newtown Square, assignor to Duo-Vent Vacuum Closure Company, Philadelphia, Pa. Flexible bag for vacuum sealing. 2,638,263, May 12.

Jewell, Gordon R., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Stake rack latch. 2,638,375, May 12.

Johns, Charles K.: *See*—
Hill, Charles, and Johns.

Johnson Fare Box Company, assignee: *See*—
Toepper, Otto W.

Johnson, Fred H., assignee: *See*—
Poulsen, Axel I.

Johnson, Robert F., Bedford, Va. Appliance for massaging and exercising human feet. 2,638,088, May 12.

Jones, Charles T. A., Wallington, assignor to Powers-Samas Accounting Machines Limited, London, England. Mechanism for sensing statistical record cards. 2,638,270, May 12.

Jones, Don F., assignor to Motor Wheel Corporation, Lansing, Mich. Air shutter for gas burners. 2,638,161, May 12.

Jones, Edward N., Pettus, Tex. Seal for well tubing. 2,638,167, May 12.

Jones, George F. Aldwych, London, assignor to Commercial Patents Limited, London, England. Hydraulic power installation. 2,637,971, May 12.

Jones, Gordon K., Tujunga, Calif. Seat for vehicles such as aircraft. 2,638,151, May 12.

Jones, John A., Baltimore, Md. Coupling. 2,638,365, May 12.

Jones, John E., and R. R. Stott, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of cellulose. 2,638,415, May 12.

Jones, John F. R., Shotton, England. Furnace for the heat treatment of materials. 2,638,334, May 12.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Drilling apparatus. 2,638,325, May 12.

Joy Manufacturing Company, assignee: *See*—
Ball, Charles F., and Luce.
Joy, Joseph F.
Lehner, Ray A.
Russell, John D.

Kahn, Samuel, Bridgeport, and C. D. Mabry, Jr., assignors to Schick Incorporated, Stamford, Conn. Beard clipping receptacle for electric shavers. 2,637,901, May 12.

Kalinowski, Joseph, Philadelphia, Pa. Combination mop and brush. 2,637,887, May 12.

Kammer, Erwin W., Alexandria, Va., I. Vigness, Washington, D. C., and S. O. Holt, Ithaca, N. Y. Bonded wire strain-gauge accelerometer. 2,638,335, May 12.

Kanter, Mike, assignor to United Buff Products Corporation, Passaic, N. J. Buffing wheel. 2,637,957, May 12.

Kappe, Stanley E., Washington, D. C. Sewage digester. 2,638,444, May 12.

Katz, Abraham A., Cambridge, Mass. Preparing Goodyear welt insoles. 2,637,883, May 12.

Kearney, Walter T., assignor of 49 percent to L. Gulttar, Sr., St. Louis, Mo. Adjustable miter rule attachment. 2,638,134, May 12.

Keary, Thomas J., Brockton, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Electromagnetic wave controlling apparatus. 2,638,547, May 12.

Kelbel, Donald W.: *See*—
Carnagua, Harold E., and Kelbel.

Keleket X-Ray Corporation, assignee: *See*—
Landsverk, Ole G., and Rasmussen.

Kell, Eugene L., San Francisco, Calif. Safety valve for air brake systems and the like. 2,638,308, May 12.

Kellett Aircraft Corporation, assignee: *See*—
Patterson, Wallace M.

Kellogg, M. W., Company, The, assignee: *See*—
Rubin, Louis C.

Kempf, Clayton A., Berkeley, J. S. Neidlinger, San Francisco, A. P. Stewart, Jr., Berkeley, and P. F. Sharp, Oakland, assignors to Golden State Company, Ltd., San Francisco, Calif. Milk product containing milk fat, and producing same. 2,638,418, May 12.

Kennedy, Emmett F., Maple Heights, assignor to Grand Industries, Inc., Cleveland, Ohio. Temporary securing device. 2,638,371, May 12.

Kennedy, John R., Collingswood, N. J., assignor to National Publishing Company, Philadelphia, Pa. Album. 2,648,099, May 12.

Kennedy, Thomas J.: *See*—
Reynolds, William B., Wicklatz, and Kennedy.

Kennedy-Van Saun Mfg. & Eng. Corporation, assignee: *See*—
Niemitz, Gerhard.

Kerr, Alexander H., and Company, Incorporated, assignee: *See*—
Bowen, Joe.

Kethledge, Helen A., Easton, Pa. Pillowcase. 2,637,861, May 12.

Kieffer, Joseph D., III, Rochester, and W. M. Strom, Irondequoit, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Teleacope having prism movable for focusing. 2,638,032, May 12.

Kiesler, George W., Sr., Barrington, Ill. Sewer cleaning device. 2,637,886, May 12.

Kimball, A., Company, assignee: *See*—
Marsh, Alonzo K., and Welmont.

Kimel, Walter, Highland Park, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Preparation of an octenone. 2,638,484, May 12.

King, John W., Warrensville Heights, and J. J. McNamee, Garfield Heights, assignors to Miles Park Machine & Tool, Inc., Cleveland, Ohio. Driving mechanism. 2,638,005, May 12.

King, William H., West Springfield, assignor to Multicolor Gravure Corp., Florence, Mass. Making printing rolls. 2,638,050, May 12.

Kircher, Ralph N., and W. G. Laabs, assignors to West Bend Aluminum Co., West Bend, Wis. Electrically heated base for cooking. 2,638,526, May 12.

Klaucke, Hermann, Worcester, Mass., assignor to Chain Belt Company, Milwaukee, Wis. Excavating mechanism for trench digging machines. 2,637,917, May 12.

Klebanoff, Michael: *See*—
Glickman, Mannes N., Klebanoff, and Neidorf.

Klebba, Arthur A., Woods Hole, Mass., assignor to the United States of America as represented by the Secretary of the Navy. Marine wave meter. 2,637,999, May 12.

Klein, Dora M., assignee: *See*—
Weibberger, Morris.

Klinzing, Louis H.: *See*—
Evans, John R., Elkins, and Klinzing.

Knobel, Max, Arlington, Mass., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Sac filling machine. 2,638,257, May 12.

Knowlton, Cutler D., Rockport, assignor to Hoague-Sprague Corporation, Lynn, Mass. Apparatus for feeding webs. 2,638,037, May 12.

Kocher, Hans, assignor to Cortébert Watch Co., Cortébert, Switzerland. Index regulator set. 2,637,970, May 12.

Koehlinger, William T., Kalamazoo, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Connector clip. 2,638,139, May 12.

Koenig, Christian A., Brooklyn, N. Y., and A. E. Weigele, Newark, N. J., assignors to National Pneumatic Company, New York, N. Y. Door opening apparatus. 2,638,340, May 12.

Kramer Trenton Company, assignee: *See*—
Malkoff, Hyman, and Nussbaum.

Kreus, Kenneth L., Fishkill, N. Y., and C. D. Hurd, Evanston, Ill., assignors to The Texas Company, New York, N. Y. Preparing monohydroxythiophene. 2,638,474, May 12.

Kronish, Joseph, Mount Vernon, N. Y. Nursing bottle nipple and shield therefor. 2,638,094, May 12.

Kullick, George, Butler, Pa. Vaginal insert. 2,638,093, May 12.

Laabs, William G.: *See*—
Kircher, Ralph N., and Laabs.

Laird, John A., Coventry, assignor to Joseph Lucas Limited, Birmingham, England. Electric spark ignition apparatus for internal-combustion engines. 2,638,565, May 12.

Lambert Brake Corporation, assignee: *See*—
Myers, Claude R., Dasse, and Bassett.

Landis, Phillip S.: *See*—
White, Ralph V., and Landis.

Landsverk, Ole G., and L. E. Rasmussen, Cincinnati, Ohio, assignors to Keleket X-Ray Corporation. Radiation exposure meter. 2,638,551, May 12.

Landsverk, Ole G., and L. E. Rasmussen, Cincinnati, Ohio, assignors to Keleket X-Ray Corporation. Radiation exposure meter. 2,638,552, May 12.

Landsverk, Ole G., and L. E. Rasmussen, Cincinnati, Ohio, assignors to Keleket X-Ray Corporation. Neutron detector. 2,638,553, May 12.

Lane, A. W., administrator: *See*—
Cudebec, Clyde L.

Langlykke, Asger F.: *See*—
Perlman, David, and Langlykke.

Langos, Harold L., assignor to Langson Manufacturing Co., Chicago, Ill. Paper burster gun. 2,637,941, May 12.

Langson Manufacturing Co., assignee: *See*—
Langos, Harold L.

Laning, Edwin R., Langhorne, Pa., assignor to The Stokes Molded Products, Inc. Plastic compound containing synthetic rubber and anthracite coal. 2,638,456, May 12.

Larison Compensating Axle Corporation, assignee: *See*—
Larison, Glenn L.

Larison, Glenn L., assignor to Larison Compensating Axle Corporation, La Grande, Oreg. Compensating wheel mounting. 2,638,357, May 12.

Larison, Glenn L., assignor to Larison Compensating Axle Corporation, La Grande, Oreg. Equalising and cushioning wheel mounting. 2,638,358, May 12.

Larson, Charles O., Sterling, Ill. Structural joint. 2,638,386, May 12.

Larson, Harold J., and G. B. Devereaux, Brooklyn, N. Y. Support for containers. 2,638,354, May 12.

Laucher, Richard G., Kirkwood, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. After burner for turbojet engines and the like. 2,637,972, May 12.

Lawence, Lovell, Jr., Denville, assignor to Reaction Motors, Inc., Dover, N. J. Rocket engine having turbine located in nozzle for driving auxiliaries. 2,637,973, May 12.

Lawson, E. P., Co., Inc., assignee: *See*—
Seybold, Frederick W.

Lawson, John V.: *See*—
Thompson, Warren L., Provine, and Lawson.

Lazicki, John J., New York, N. Y. Comb. 2,638,100, May 12.

Lecarme, Jacques A. M., Aix-en-Provence, assignor to Societe Anonyme dite: Societe Nationale de Constructions Aeronautiques Du Sud-Est, Paris, France. Control means for flying machines. 2,638,290, May 12.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Feeding drive mechanism for mining machines. 2,638,332, May 12.

Lee, Burton D., Houston, Tex., assignor to The Texas Company, New York, N. Y. Seismic prospecting. 2,638,402, May 12.

Lehigh Evelyn, Mamaroneck, N. Y. Compound bed cover. 2,637,860, May 12.

Lehner, Ray A., Claremont, N. H., assignor to Joy Manufacturing Company. Drilling apparatus. 2,638,326, May 12.

Leln, Valdemar A., Driscoll, N. Dak. Self-opening and closing bump gate. 2,637,921, May 12.

Les Glaceries De La Sambre, Societe Anonyme, assignee: *See*—
De Bay, Lucien L. C.

Lever Brothers Company, assignee: *See*—
James, Edward M.

Levy, Anthony L.: *See*—
Heilbron, Ian, Cook, and Levy.

Levy, Isaac, Laurelton, N. Y. Heat reducing attachment for light fixtures, including spaced upper and lower heat restrictors. 2,638,531, May 12.

Lewis, Harry, Cleveland, Ohio. Spark plug. 2,638,083, May 12.

Lewis, Paul G., Tonawanda, assignor to Remington Rand Inc., New York, N. Y. Button panel key. 2,638,012, May 12.

Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Recovering metals by gaseous reduction. 2,638,414, May 12.

Lewis, Warren K., Jr., East Orange, N. J., assignor to Standard Oil Development Company. Heating fluids. 2,638,328, May 12.

Libbey-Owens-Ford Glass Company, assignee: *See*—
White, Gerald.

Liechti, Albert, assignor of Micafil A.-G., Zorich, Switzerland. Electrical condenser. 2,638,494, May 12.

Lilly, Eli, and Company, assignee: *See*—
Coffey, Henry F.
Small, Ian H.

Lindell, Sigurd L., assignor to S & C Electric Company, Chicago, Ill. Operating mechanism for high voltage electric circuit interrupting devices. 2,638,003, May 12.

Lindstrom, Frithjof J., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Restraining and releasing device for pilots. 2,638,293, May 12.

Link-Belt Company, assignee: *See*—
Harvengt, Edmond.
Musschoot, Albert, Bergmann, and Young.

Lippmann, Arthur W. and E. E., assignors to Lippmann Engineering Works, Milwaukee, Wis. Flap opener for cartons. 2,637,958, May 12.

Lippmann, Edmund E.: *See*—
Lippmann, Arthur W. and E. E.

Lippmann Engineering Works, assignee: *See*—
Lippmann, Arthur W. and E. E.

Liquidometer Corporation, The, assignee: *See*—
Sonthelmer, Carl G.

Livsey, Ralph, Shaker Heights, Ohio. Infant incubator. 2,638,087, May 12.

Lloyd, Raymond G., La Grange Park, Ill., and W. H. Young, Bethesda, Md. System of radio aids for aerial navigation in the vicinity of airports. 2,638,589, May 12.

Loesel, George O., Erie, Pa. Combined can holding and brush wiping device. 2,638,245, May 12.

Lombardi, Eugene H., Port Chester, N. Y., assignor to General Precision Laboratory Incorporated. Magnetic record eraser. 2,638,507, May 12.

Longert, Christian L., Winterberg, Germany. Wheel hub with built-in dynamos, especially for bicycles and motor bicycles. 2,638,557, May 12.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Nelson, Harry.

Lovejoy, Rex E., Los Angeles, K. A. Smith, Burbank, F. A. Harrington, Brea, and J. K. Harter, Los Angeles, assignors to Marco Industries Company, Beverly Hills, Calif. Means for indicating maximum and minimum lighting conditions. 2,638,580, May 12.

Lowell Specialty Company, assignee: *See*—
Fletcher, Lynn L.

Lucas, Joseph, Limited, assignee: *See*—
Laird, John A.
Swift, William, and Coley.

Luce, Edward M.: *See*—
Ball, Charles F., and Luce.

Ludlow Valve Manufacturing Co., Inc., The, assignee: *See*—
Weinberg, Edwin A.

Ludwig, Merle R., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Aircraft instrument. 2,637,911, May 12.

Ludwig, Walter D., Detroit, Mich. Valve. 2,638,122, May 12.

Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet feeding and registering mechanism. 2,638,342, May 12.

Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet feeding and registering mechanism. 2,638,343, May 12.

Lukacs, Joseph, Astoria, assignor, by mesne assignments, to Technicon Cardiograph Corporation, New York, N. Y. Electrocardiograph. 2,638,401, May 12.

Lukens Steel Company, assignee: *See*—
Williams, Leonard W.

Lumitype Corporation, assignee: *See*—
Murphy, Joseph F.

Lundstrom, Ida, St. Louis, Mo. Cigarette stub and ash receptacle. 2,638,240, May 12.

Lyerly, Grover B., Jonesboro, Ill. Tractor mounted seeder and fertilizer. 2,638,350, May 12.

Mabe, Howard: *See*—
Davis, Bruce E., and Mabe.

Mabry, Curtis D., Jr.: *See*—
Kahn, Samuel, and Mabry.

Macgeorge, William D., Collegeville, and C. E. Roessler, Jr., assignors to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Electrically controlled tiltable reflecting mirror device. 2,638,035, May 12.

MacKay, Irwin A.: *See*—
Sweeney, John F., Able, and MacKay.

MacLaughlin, Grey D., Jr.: *See*—
Bartow, John B., J. A., and MacLaughlin.

MacNichol, Edward F., Jr., South Hamilton, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Gated oscillator circuit. 2,638,546, May 12.

MacPhee, Paul A., and G. T. Brown, Jr., assignors to The National Cash Register Company, Dayton, Ohio. Hand stamp. 2,638,049, May 12.

MacQuarrie, Fred L., Los Angeles, and F. S. Woods, Montebello, Calif., assignors, by mesne assignments, of fifty and one-half per cent to said MacQuarrie and forty-nine and one-half per cent to said Woods. Torque regulator for reels. 2,638,285, May 12.

Maggi, Ernesto, Bergamo, Italy. Linear motor racing game. 2,638,347, May 12.

Magnavox (Australia) Pty. Ltd., assignee: *See*—
Charlesworth, Reginald D.

Malkoff, Hyman, and O. J. Nussbaum, assignors to Kramer Trenton Company, Trenton, N. J. Refrigerating apparatus with hot gas defrosting means. 2,637,983, May 12.

Mallasch, Luther F., Glendale, Calif. Flexible conduit cutter. 2,637,903, May 12.

Malmberg, Jonas A. G., Stockholm, Sweden. Shaving apparatus. 2,637,902, May 12.

Manley, Lee W.: *See*—
Otto, Ferdinand P., Manley, and White.

Mann, Zelvern W., assignor to The Meyercord Co., Chicago, Ill. Surface-covering tile. 2,637,995, May 12.

Mann, Zelvern W., assignor to The Meyercord Co., Chicago, Ill. Making surface-covering articles. 2,638,430, May 12.

Manoll, Jack, assignor to Manoll Manufacturing Co., Inc., Waverly, N. Y. Toy fence and elements. 2,637,934, May 12.

Manoll Manufacturing Co., Inc., assignee: *See*—
Manoll, Jack.

Marano, Herbert W., Brooklyn, N. Y., assignor to Wilson Jones Company, Chicago, Ill. Staple extractor. 2,638,313, May 12.

Marco Industries Company, assignee: *See*—
Lovejoy, Rex E., Smith, Harrington, and Harter.

Marco, John L., Kew Gardens, assignor to Goodman-Kleiner Company, Inc., New York, N. Y. Surgical forceps. 2,638,097, May 12.

Markel Electric Products, Inc., assignee: *See*—
Schweitzer, Erich.

Marks, Alvin M., Beechhurst, N. Y. Heat-electrical power conversion through the medium of a charged serosol. 2,638,555, May 12.

Marsh, Alonzo K., Ridgewood, and J. Welmont, Bogota, N. J., assignors to A. Kimball Company, New York, N. Y. Machine for marking tags of different styles. 2,638,038, May 12.

Martin, James, Higher Denham, near Uxbridge, England. Control means for use with ejection seat of aircraft. 2,638,294, May 12.

Martin, Paul N., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Electric circuit controller. 2,638,514, May 12.

Martin, Wade B., Ramsey, N. J., assignor to American Telephone and Telegraph Company. Telegraph call transferring system. 2,638,497, May 12.

Marvel, Harvey E., Fort Wayne, Ind., assignor to The Briggs Filtration Company, Washington, D. C. Signal device for filters. 2,638,581, May 12.

Mason, Laurence S., Prescott, Ariz. Reloading clip for revolvers. 2,637,930, May 12.

Mathieson Chemical Corporation, assignee: *See*—
Grundmann, Christoph.
Perlman, David, and Langlykke.

Mathisen, Anders, assignor of one-half to Graviner Manufacturing Company Limited and one-half to The Wilkerson Sword Company Limited, London, England. Aircraft crash or impact detecting device and electric system associated therewith. 2,638,286, May 12.

Maust, Frederick K., Queens Village, N. Y. Roller leveler. 2,638,143, May 12.

Mavor & Coulson, Limited, assignee: *See*—
Towler, John M.

May, Vivian G., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Adjustable seat structure. 2,638,150, May 12.

Mayer, Albert A., Little Falls, N. J. Article counting and conveying apparatus. 2,638,203, May 12.

Mayhew, Edward H., Youngstown, Ohio. Ironing board basket. 2,637,918, May 12.

Mayland, Bertrand J., and S. G. Stewart, Bartlesville, Okla., assignors to Phillips Petroleum Company. Making synethesis gas with a 1:1 ratio H_2 to CO. 2,638,452, May 12.

Mayo, William B.: *See*—
Norsworthy, Arthur C., Meidinger, Mayo, and Seyffert.

McAdams, Don R.: *See*—
Starr, Charles E., Jr., McAdams, and Billsoly.

McCandless, James M., and L. Bentz, Chico, Calif. Side-delivery rake. 2,637,967, May 12.

McCord Corporation, assignee: *See*—
Urso, Ralph F., Gardes, and Carleton.

McDonnell Aircraft Corporation, assignee: *See*—
Laucher, Richard G.

McFerren, Bernard T., Youngstown, and F. S. Seybert, Warren, Ohio, assignors, by mesne assignments, to Sharon Steel Corporation, Sharon, Pa. Hand strap tensioning tool. 2,638,314, May 12.

McGeogh, James E.: *See*—
Jensen, Garold K., and McGeogh.

McGill Metal Products Company, assignee: *See*—
Stilson, Herbert A.

McGuire, Willis C.: *See*—
Morehouse, Neal F., and McGuire.

McKee, Robert C., and G. R. Sears, assignors to The Institute of Paper Chemistry, Appleton, Wis. Method and apparatus for testing paperboard. 2,637,996, May 12.

McKellar, John D., and R. E. Crandall, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Hydraulic stick control. 2,638,289, May 12.

McLain, Harold O., Highland Park, Ill. Salt attachment for icing machines. 2,637,980, May 12.

McLaughlin, Eli H., Toledo, Ohio. Method and apparatus for drilling glass sheets. 2,638,084, May 12.

McMickle, Levitt L.: *See*—
Dale, Frank L., and McMickle.

McNamee, James J.: *See*—
King, John W., and McNamee.

McRill, Orls W., assignor of twenty-five per cent to Harry C. Riechman, Centralia, Ill. Backflow check float for sewers. 2,638,178, May 12.

Mead, William H., assignee: *See*—
Bishop, Lewis H., and Finn.

Mearns, Herbert A., Elkins, W. Va. Pipe aligning device. 2,638,069, May 12.

Mechanical Man, Inc., assignee: *See*—
Dale, Frank L., and McMickle.

Mechur, Berthold: *See*—
Riedler, Walter, and Mechur.

Meidinger, George L.: *See*—
Norsworthy, Arthur C., Meidinger, Mayo and Seyffert.

Meitzler, Donald E., Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn. Starting system for free-piston units. 2,638,266, May 12.

Melsom, Walter A., Wembley, assignor to Bowden (Engineers) Limited, London, England. Flexible hose coupling. 2,638,361, May 12.

Mennesson, Marcel, Neuilly-sur-Seine, assignor to "Societe d'Appareils de Controle et d'Equipement des Moteurs" (S. A. C. E. M.) S. A. R. L., Seine, France. Exhaust device for motor bicycles. 2,638,174, May 12.

Menosky, George, Grand Rapids, Mich., assignor, by mesne assignments, to A M I Incorporated. Panel mounting assembly. 2,638,191, May 12.

Merriman, Leater C., Whitehorse, Yukon Territory, Canada. Rotary fluid motor for dry shavers. 2,638,310, May 12.

Mertzweiller, Joseph K., Baton Rouge, La., assignor to Standard Oil Development Company. Decobalting operation in aldehyde synthesis. 2,638,485, May 12.

Meyer, Amel R., Griffith, assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Welding process and apparatus. 2,638,524, May 12.

Meyer, Geo. J., Manufacturing Co., assignee: *See*—
Carter, Sidney T.

Meyercord Co., The, assignee: *See*—
Mann, Zelvern W.

Micafil A.-G., assignee: *See*—
Liechti, Albert.

Mid-Continent Petroleum Corporation, assignee: *See*—
Thompson, Warren L., Provine, and Lawson.

Mierendorf, Robert C., Milwaukee, Wis., assignor to Square D Company, Detroit, Mich. Synchronising system for electronic tubes. 2,638,566, May 12.

Miles Park Machine & Tool, Inc., assignee: *See*—
King, John W., and McNamee.

Miller, Carroll T.: *See*—
Amos, James L., and Miller.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Double-acting gear shaping machine. 2,638,036, May 12.

Miller, Ernest C. C., Laurelton, N. Y. Broom machine. 2,638,277, May 12.

Miller, Olen L., Grantsville, Md. Surface miller. 2,638,136, May 12.

Miller, Robert L., Berkeley, Calif. Weight proportioning means and method. 2,638,305, May 12.

Millson, Henry E., Plainfield, and S. Mooradian, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Dyeing nitrogenous fibers with metallized azo dyes. 2,638,404, May 12.

Miner, W. H., Inc., assignee: *See*—
Danielson, Vernon S., and Wallace.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Gordon, James E., and Evans.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Horn, Joseph D.
Ludwig, Merle R.

Minnesota Automotive, Inc., assignee: *See*—
Chandler, Irvin B.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Nuesale, Walter G.
Reed, Ralph W.

Miskimen, Madge B., Indianapolis, Ind. Bed attachment. 2,637,859, May 12.

Molinaro, Peter B., Verona, N. J. Tonneau cover for motor vehicles. 2,638,378, May 12.

Monarch Equipment Co., assignee: *See*—
Saari, Frank E., and Roth.

Monger, James F., Chicago, Ill. Railway car diaphragm face plate mounting. 2,638,055, May 12.

Monroe Calculating Machine Company, assignee: *See*—
Fleming, Howard M., Jr.

Montgomery, Charles W., and W. A. Horne, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Hydrocarbon synthesis. 2,638,477, May 12.

Moody, Taft, assignee: *See*—
Tarr, Robert O.

Mooradian, Shannon: *See*—
Millson, Henry E., and Mooradian.

Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co. Incorporated. Chain slide. 2,637,884, May 12.

Morehouse, Neal F., and W. C. McGuire, Charles City, Iowa, assignors to Dr. Salsbury's Laboratories. Paranitro-phenyl-arsonic acid blackhead control composition. 2,638,432, May 12.

Morgenroth, Henri, Santa Barbara, Calif. Carburetor. 2,638,330, May 12.

Morkoski, James, Memphis, Tenn., assignor to International Harvester Company. Beet harvester. 2,637,962, May 12.

Morrison, Alexander L., and F. R. Atherton, Welwyn Garden City, England, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Phosphorus-containing derivatives of M-aminophenols. 2,638,478, May 12.

Moser, George H., assignor to O. J. Fry, Portland, Oreg. Sponge rubber brush. 2,637,871, May 12.

Motor Wheel Corporation, assignee: *See*—
Jones, Don F.

Moule, Rex E., Holden, assignor to Norton Company, Worcester, Mass. Valve and pump for metering out material for capsulating machines and the like. 2,638,052, May 12.

Mueller, Edward C., Spencerville, Ohio. Storm window. 2,637,879, May 12.

Mueller, Frederick W., assignor to West Bend Aluminum Co., West Bend, Wis. Teakettle having toggle acting spout cap. 2,638,253, May 12.

Mulligardt, Alexander S.: *See*—
Sherman, Roger M., Mulligardt, and Gray.

Mullinix, Gird E., South Gate, assignor to Byron Jackson Co., Los Angeles, Calif. Power unit for a well pipe slip assembly. 2,638,316, May 12.

Mulnix, Ersel C., Highland Park, Ill. Carton. 2,638,262, May 12.

Multhauf, Hugo J.: *See*—
Hagen, Otto B., and Multhauf.

Multicolor Gravure Corp., assignee: *See*—
King, William H.

Munson, Donald J., Anderson, Ind. Accelerator holding means. 2,638,016, May 12.

Murphy, Arthur J., assignor of one-half to S. L. Atkins, New York, N. Y. Ice cream dispensing machine. 2,638,064, May 12.

Murphy, Charles E. M., Bellerose, N. Y. Foot exerciser. 2,638,089, May 12.

Murphy, Joseph F., West Roxbury assignor to Lumitype Corporation, Roxbury, Mass. Apparatus for producing type proof and photoprints thereof. 2,638,040, May 12.

Murray, Alec: *See*—
Stead, Ernest, Murray, and Burtonshaw.

Muschoot, Albert, Park Ridge, and R. F. Bergmann, Winnetka, Ill., and C. M. Young, Jr., Philadelphia, Pa., assignors to Link-Belt Company. Vibratory conveyer. 2,638,206, May 12.

Myers, Claude R., Gallen, L. F. Dasse, St. Joseph, and J. Bassett, Benton Harbor, assignors, by mesne assignments, to Lambert Brake Corporation, St. Joseph, Mich. Actuator motor device for hydraulic brakes. 2,637,976, May 12.

Nachod, Julius E., Jr., Newark, assignor to Hercules Powder Company, Wilmington, Del. Maleic acid manufacture. 2,638,481, May 12.

Nachtman, John S., Washington, D. C. Manganese alloy coating on ferrous base and preparation. 2,637,896, May 12.

Nampa, Sulo M., assignor to Evans Products Company, Detroit, Mich. Loading apparatus. 2,638,318, May 12.

Nants, John F., Washington, D. C. Massaging device. 2,638,090, May 12.

Nathan Manufacturing Corp., assignee: *See*—
Swanson, Robert E.

Nathan, Matthew L., Godalming, assignor to Power Jets (Research & Development) Limited, London, England. Combustion apparatus for an air stream and propulsive system. 2,637,974, May 12.

National Battery Company, assignee: *See*—
Snyder, Almond H.

National Cash Register Company, The, assignee: *See*—
MacPhee, Paul A., and Brown.

National Cylinder Gas Company, assignee: *See*—
Candy, Albert M.
Winkelman, Harvey E., and Hinger.

National Pneumatic Company, assignee: *See*—
Koenig, Christian A., and Weigele.

National Publishing Company, assignee: *See*—
Kennedy, John R.

National Video Corporation, assignee: *See*—
Giacchetti, Anacleto D.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Adkins, Homer B.
Brace, Porter H.
Chu, Lan J., and Taggart.
Critchfield, Charles L.
Keary, Thomas J.
Klebba, Arthur A.
MacMichul, Edward F., Jr.
Pietz, Ervin.
Redheffer, Raymond M.
Rowe, Delman E.
Schmitt, Otto H.
Schultz, Howard L.
Taylor, Morris P.
Trischka, John W., and Sack.
Woodbury, Roger B.

Nebel, Raymond J., Lincoln Park, N. J. Sealing means. 2,638,147, May 12.

Neeme, Johannes E., Arthur, N. Dak. Piston and ring. 2,638,390, May 12.

Neidlinger, Joy S.: *See*—
Kempf, Clayton A., Neidlinger, Stewart, and Sharp.

Neidorf, Samuel W.: *See*—
Glickman, Mannes N., Klebanoff, and Neidorf.

Nelson, Arthur E., deceased, University City, Mo.; H. S. Nelson, executrix. Can opener. 2,637,897, May 12.

Nelson, Frederick, Lakewood, Ohio. Distributor. 2,638,515, May 12.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Hardware removing tool. 2,638,025, May 12.

Nelson, Helen S., executrix: *See*—
Nelson, Arthur E.

Nelson, Lewis J., Niagara Falls, N. Y. Shoulder strap pad. 2,637,849, May 12.

Nelson Specialty Corporation, assignee: *See*—
Sturmer, Robert L.

Newton, Alwin B., Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich. Compressor unloading apparatus. 2,638,265, May 12.

Ney, William O., Jr., Providence, W. R. Nummy, Warren, and C. E. Barnes, Gloucester, assignors to Arnold, Hoffman & Co. Incorporated, Providence, R. I. Polymers from pyrrolidone. 2,638,463, May 12.

Nickerson, Elmer K., assignor to The Chapman Valve Manufacturing Company, Springfield, Mass. Valve. 2,638,124, May 12.

Nicolls, Wilfrid E. W., Pinner, assignor to C. A. V. Limited, London, England. Liquid fuel injection pump for internal-combustion engines. 2,638,053, May 12.

Niemitz, Gerhard, Bronx, assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Pulverulent material classifying means. 2,638,217, May 12.

Nixon, Alan C., Berkeley, and C. H. Deal, Jr., Alameda, assignors to Shell Development Company, San Francisco, Calif. Contacting hydrocarbon mixtures with antimony trichloride. 2,638,441, May 12.

Norris, Henry D.: *See*—
White, Ralph V., and Norris.

Norsworthy, Arthur C., Phoebus, G. L. Meidinger, Hampton, W. B. Mayo, Hilton Village, and M. B. Seyffert, Hampton, assignors to Technical Service Corporation, Newport News, Va. Contouring machine. 2,637,950, May 12.

Northrop Aircraft, Inc., assignee: *See*—
McKellar, John D., and Crandall.
Northrop, John K., Fishbein, and Smith.
Williams, Charles R., and Hagen.

Northrop, John K., Hawthorne, M. Fishbein, West Los Angeles, and D. B. Smith, North Hollywood, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. All-wing cargo pack. 2,638,291, May 12.

Norton Company, assignee: *See*—
Moole, Rex E.

Norvell, Benjamin E., Oak Creek, Ariz. Occupant propelled roundabout. 2,638,345, May 12.

Nuesale, Walter G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasive belt. 2,637,956, May 12.

Nummy, William R.: *See*—
Ney, William O., Jr., Nummy, and Barnes.

Nussbaum, Otto J.: *See*—
Malkoff, Hyman, and Nussbaum.

Nye-Wait Company, Inc., assignee: *See*—
Peacock, Ralph W.

Oberbeck, August L.: *See*—
Smith, Kenneth N., and Oberbeck.

O'Brien, Joseph F., Lebanon, J. B. Cataldo, Annandale, and K. E. Vroom, Summit, N. J., assignors to John R. Pierce Foundation, New York, N. Y. Lamp holder mounted on continuous conductor. 2,638,576, May 12.

Olsen, Malvin H., Cook, Minn. Book matches with ejection-type ignition means therefor. 2,638,208, May 12.

Orendorff, John W., Canton, Ill., assignor to International Harvester Company. Beet harvester having beet cleaning means. 2,637,964, May 12.

Oswalt, Burlin W., Union, Ohio. Hydraulic brake adjuster. 2,638,186, May 12.

Otken, Edwin J., New York, assignor to Good Humor Corporation, Brooklyn, N. Y. Machine for coating confections. 2,638,071, May 12.

Otto, Ferdinand P., and L. W. Manley, Woodbury, and R. V. White, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Gear lubricant. 2,638,447, May 12.

Packard Motor Car Company, assignee: *See*—
Tibbetts, Milton.

Pagano, Andrea, Manton, France. Protector for trousers. 2,637,916, May 12.

Painter, Francis E., assignor to Corning Glass Works, Corning, N. Y. Realigning method and apparatus. 2,637,943, May 12.

Parker Appliance Company, The, assignee: *See*—
Davies, Robert H.

Parks, Asbury S., Houston, Tex. Fluid pressure control device. 2,637,945, May 12.

Parks, Asbury S., Houston, Tex. Fluid pressure regulator. 2,637,946, May 12.

Parks, Asbury S., Houston, Tex. Pilot regulator. 2,637,947, May 12.

Parks, Asbury S., Houston, Tex. Valve control apparatus. 2,638,110, May 12.

Parks, Asbury S., Houston, Tex. Well packer. 2,638,168, May 12.

Parks, Asbury S., Houston, Tex. Liquid knockout apparatus. 2,638,223, May 12.

Parsons, John B., Maumee, Ohio. Electromagnetically actuated valve. 2,638,125, May 12.

Pasinski, Walter J., Howell, assignor to Burroughs Adding Machine Company, Detroit, Mich. Duplex calculating machine. 2,638,271, May 12.

Patterson, Wallace M., Penn Wynne, Pa., assignor to Kellett Aircraft Corporation. Forming composite joint construction. 2,638,429, May 12.

Paulsen, William P., Canton, S. Dak. Traction device. 2,638,140, May 12.

Paxton, Dewey M., Phoenix, Ariz. Impulse liquid agitator. 2,638,381, May 12.

Paxton, Gerald C., assignor to General Nailing Machine Corporation, Sanger, Calif. Packing stand assembly. 2,638,216, May 12.

Payne, Albert E., assignee: *See*—
Anderson, William J.

Payne, Martin W., assignee: *See*—
Dorr, James F.

Peabody Engineering Corporation, assignee: *See*—
Spearing, Kenneth A.

Peacock, Ralph W., Fleming, assignor to Nye-Wait Company, Inc., Auburn, N. Y. Laminated pile wire for stationary wire Wilton looms. 2,638,128, May 12.

Pearce, Albert F., Hampton Hills, and N. C. Barford, South Bend, assignors to Electric & Musical Industries Limited, Hayes, England. High-frequency electrical device having gas-tight envelopes. 2,638,504, May 12.

Peck, Mildred A., Newport, Oreg. Brassiere. 2,637,851, May 12.

Perkins, William J., Cedar Grove, N. J., assignor to Harnischfeger Corporation, Milwaukee, Wis. Truck crane. 2,638,232, May 12.

Perlman, David, Princeton, and A. F. Langlykke, Highland Park, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Culture of phage-sensitive *Streptomyces griseus*. 2,638,436, May 12.

Perma-Fit Shoulder Pad Co., Inc., assignee: *See*—
Riedler, Walter, and Mechur.

Peterson, Edwin F., Kewanee, Ill. Coremaking machine. 2,637,881, May 12.

Peterson, John T., Rockford, Ill. Tripod head. 2,638,298, May 12.

Pfizer, Chas., & Co., Inc., assignee: *See*—
Druetrup, Thomas G.

Phillips, Harold P., assignor to Hastings Manufacturing Co., Hastings, Mich. Piston ring. 2,638,393, May 12.

Phillips Petroleum Company, assignee: *See*—
Crouch, Willie W.
Mayland, Bertrand J., and Stewart.
Pisty, Raymond G.
Pitzer, Emory W.
Reynolds, William B., Wicklatz, and Kennedy.
St. John, Willard M., Jr.

Pielstick, Gustav, Saint-Germain-en-Laye, France. Piston cooling for internal-combustion engines. 2,638,080, May 12.

Pierce, John B., Foundation, assignee: *See*—
O'Brien, Joseph F., Cataldo, and Vroom.

Pierce, John R., Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Solenoid delay line. 2,638,502, May 12.

Pisty, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Seismometer. 2,638,578, May 12.

Pietz, Ervin, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Shock mount. 2,638,305, May 12.

Pitzer, Emory W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alumina-metal oxide dehydrogenation catalyst and its preparation. 2,638,455, May 12.

Plessey Company Limited, The, assignee: *See*—
Webb, Charles D. H.

Plott, Robert F., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Vacuum die-casting. 2,637,882, May 12

Poe Machine & Engineering Company, assignee: *See*—
Bebech, Michael J.

Pokorny, Stephen S., Maquoketa, Iowa. Loading mechanism for offset tractors. 2,638,235, May 12.

Polk, William E., Shreveport, La. Flapping wing toy. 2,637,935, May 12.

Polk, William E., Shreveport, La. Flapping wing toy. 2,637,937, May 12.

Polk, William E., Shreveport, La. Flapping wing toy. 2,637,938, May 12.

Polk, William E., Shreveport, La. Flapping wing toy. 2,637,939, May 12.

Pomeroy, Harry M.: *See*—
De Peau, William H., and Pomeroy.

Pontillo, Cyril, Kenosha, Wis. Container piercing apparatus. 2,637,898, May 12.

Pool, G. G., assignee: *See*—
Russell, Carl D.

Pool, Stuart D., Moline, and W. F. Collins, Westmont, Ill., assignors to International Harvester Company. Dispensing tank and valve structure. 2,637,979, May 12.

Poole, William J., Evanston, assignor to Container Corporation of America, Chicago, Ill. Frozen food carton with plastic lid. 2,638,261, May 12.

Posson, Donald G., Needham, Mass. Tube cleaning tool. 2,637,865, May 12.

Posson, Donald G., Needham, Mass. Making elastic webbing and product thereof. 2,638,130, May 12.

Poulsen, Axel I., Detroit, Mich., assignor to F. H. Johnson. Starter brake for power cycles. 2,638,173, May 12.

Power Brake Equipment Co., assignee: *See*—
Williams, Norman C., and Fishwood.

Power Jets (Research & Development) Limited, assignee: *See*—
Nathan, Matthew L.
Roesch, Georges H.

Powers, Robert F., Warren, Ark. Coin wrapping device. 2,637,960, May 12.

Powers-Samas Accounting Machines Limited, assignee: *See*—
Jones, Charles T. A.
Thomas, Arthur.

Prevost, Bruno E., North Andover, assignor to John W. Bolton & Sons, Inc., Lawrence, Mass. Short core shaft. 2,638,282, May 12.

Prewitt, Richard H., Wallingford, Pa. Aircraft propeller or rotor. 2,638,170, May 12.

Price, James F., Miami, Fla. Combined closure latch and lock. 2,638,370, May 12.

Priest, William F., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex. Radio-locator system. 2,638,585, May 12.

Proebstle, Leonard J., Massillon, assignor to Goodyear Aircraft Corporation, Akron, Ohio. Fuel cell supporting enclosure. 2,638,138, May 12.

Proetz, Walter R., St. Louis, Mo. Digging tool. 2,638,372, May 12.

Provine, Robert W.: *See*—
Thompson, Warren L., Provine, and Lawson.

Prowinsky, Joseph H., Washington, D. C. Automatic brake. 2,638,183, May 12.

Prowinsky, Joseph H., Washington, D. C., and D. J. Carlson, Vienna, Va. Hand truck. 2,638,236, May 12.

Pulsifer, Newell B., Livermore Falls, Maine. Headrest. 2,638,152, May 12.

Radio Corporation of America, assignee: *See*—
Ballard, Randall C.
Cuccia, Carmen L.
Donal, John S., Jr., Smith, and Brown
Evans, John.
Ruben, Harry.
Sziklai, George C.
Wallmark, John T.

Radio Patents Corporation, assignee: *See*—
Guanella, Gustav.

Ragats, Edw. G., Co., assignee: *See*—
Ragats, Edward G.

Ragats, Edward G., assignor to Edw. G. Ragats Co., San Marino, Calif. Method and apparatus for treating hydrocarbons. 2,638,437, May 12.

Rahfuse, Eugene T., deceased, Hamilton, Ohio, by M. Rahfuse, executrix, assignor of one-half to C. W. Ball, Hamilton, Ohio. Film reel fastener. 2,638,284, May 12.

Rahfuse, Martha, executrix: *See*—
Rahfuse, Eugene T.

Railton, Reid A., Berkeley, Calif., assignor to Hudson Motor Car Company, Detroit, Mich. Steering mechanism for motor vehicles. 2,638,014, May 12.

Ramsay, William S., assignor to Stark Ceramics, Inc., Canton, Ohio. Making metallic and clay articles. 2,637,890, May 12.

Ramser, John H., Chester, assignor to The Atlantic Refining Company, Philadelphia, Pa. Apparatus for determining well pressures. 2,637,998, May 12.

Randall Graphite Products Corporation, assignee: *See*—
Whiteley, Robert L., and Hostetler.

Randol, Glenn T., Mountain Lake Park, Md. Speed-responsive device. 2,638,518, May 12.

Rankin, Dan R., Altadena, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Magnetic power transmission. 2,638,558, May 12.

Rasmussen, Leonard E.: *See*—
Landsverk, Ole G., and Rasmussen.

Rawlings, Arthur L., Waterbury, Conn., assignor to The Sperry Corporation. Self-orienting three-axis reference apparatus. 2,637,914, May 12.

Ray, Alfred C.: *See*—
Heitlinger, Eugene V., Fields, and Ray.

Ray, William A., North Hollywood, assignor to General Controls Co., Glendale, Calif. Multiport valve. 2,637,985, May 12.

Raytheon Manufacturing Company, assignee: *See*—
Calosi, Carlo L.
Riblet, Henry J.

Raytheon Television and Radio Corporation, assignee: *See*—
Schreiner, Louis W.

Reaction Motors, Inc., assignee: *See*—
Lawrence, Lovell, Jr.

Reaume, Josephine M., assignee: *See*—
Stafford, Martin L.

Rechtin, Clarence R., assignor to The J. H. Day Company, Inc., Cincinnati, Ohio. Stuffing box for dough mixers. 2,638,364, May 12.

Redheffer, Raymond M., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Computer for evaluating complex integrals. 2,638,268, May 12.

Reed, Charles H., Bobtown, Pa. Transit support. 2,638,302, May 12.

Reed, Ralph W., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Back-stand grinder. 2,637,952, May 12.

Reeve, Robert E., Tracy, Calif. Surcingle handling apparatus. 2,637,962, May 12.

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Edge-active belt. 2,638,007, May 12.

Reeves Pulley Company, assignee: *See*—
Reeves, Paul B.

Remington Rand Inc., assignee: *See*—
Lewis, Paul G.
Schremp, Frederick W.

Reyes, Severo, Laredo, Tex. Ampoule breaker. 2,638,022, May 12.

Reynolds, William B., J. E. Wicklatz, and T. J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company. Polymerization of vinylidene compounds in the presence of a catalyst composition comprising dimethylhalophenylhydroperoxymethane. 2,638,464, May 12.

Reynolds, William J.: *See*—
Hartley, George C., and Reynolds.

Riblet, Henry J., Wellesley Hills, assignor to Raytheon Manufacturing Company, Newton, Mass. Electromagnetic-radiating system. 2,638,588, May 12.

Richard H. Hallsted, assignee: *See*—
Stratton, Glen S.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Highland Park, Mich. Tractor support for mowers. 2,637,966, May 12.

Ridenour, William P.: *See*—
Bowman, John R., Ridenour, and Whittaker.

Ridler, Desmond Sydney: *See*—
Bray, Frederick H., Hartley, and Ridler.

Riechman, Harry C., assignee: *See*—
McRill, Orie W.

Riedler, Walter, and B. Mechur, assignors, by mesne assignments, to Perma-Fit Shoulder Pad Co., Inc., New York, N. Y. Shoulder pad. 2,637,854, May 12.

Roach, Charles D., Hempstead, N. Y. Adjustable tank stripper. 2,638,222, May 12.

Roberts Co., The, assignee: *See*—
Roberts, Roy M.

Roberts, George G.: *See*—
Skolmen, Torger, Roberts, and Euson.

Roberts, Roy M., Arcadia, assignor to The Roberts Co., Los Angeles, Calif. Carpet and making same. 2,638,427, May 12.

Robertson, Fred O., Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Package of flat articles with adjustable filler pad. 2,638,212, May 12.

Robichaux, Roy, Brodhead, Wis. Hydrogen ion concentration adjustment. 2,638,419, May 12.

Robie, Norman P., Hamburg, N. Y., assignor to Electro Refractories & Abrasives Corporation. Abrasive articles. 2,638,413, May 12.

Rochlin, Doris C., and G. M. Crepps, Newton, Kans. Heat deflector for hair driers. 2,637,853, May 12.

Rockoff, Joseph, Dayton, Ohio, assignor to The Dayton Rubber Company. Apparatus for impregnating textile materials. 2,637,892, May 12.

Roe, A. V., Canada Limited, assignee: *See*—
Skinner, Roland W., and Frampton.

Roesch, Georges H., assignor to Power Jets (Research and Development) Limited, London, England. Locomotive rail vehicle. 2,638,057, May 12.

Roessler, Charles E., Jr.: *See*—
Macgeorge, William D., and Roessler.

Rohs, Joseph F., Riverside, Conn., assignor, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass. Framing device. 2,638,131, May 12

Ronson Art Metal Works, Inc., assignee: *See*—
Aronson, Alexander H.

Rosengren, Swan N.: *See*—
Downey, George T., Rosengren, and Forrester.

Ross, John, Ramsey, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Spray cooled product and process. 2,638,475, May 12.

Roth, Grant V. W.: *See*—
Saari, Frank E., and Roth.

Rounsevillle, Ellsworth A., and R. G. Estee, Attleboro, Mass., assignors to Glas-Kraft Inc., Lonsdale, R. I. Reinforced paper and method and apparatus for the manufacture thereof. 2,638,146, May 12.

Rowan, Robert, Jr., Silver Spring, Md., assignor to Standard Oil Development Company. Catalyst preparation. 2,638,454, May 12.

Rowe, Delman E., Washington, D. C., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Coaxial variable attenuator switch. 2,638,503, May 12.

Rowe Manufacturing Co., Inc., assignee: *See*—
Gabrielsen, Christian.

Ruben, Harry, Philadelphia, Pa., assignor to Radio Corporation of America. Automatic gain control system. 2,638,538, May 12.

Ruben, Samuel, New Rochelle, N. Y. Primary cell. 2,638,489, May 12.

Rubin, Louis C., West Caldwell, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J. Metal to plastic bonding. 2,638,523, May 12.

Runkle, Charles V., Detroit, Mich. Electronic space unit humidifier. 2,638,528, May 12.

Rupp, Warren E., assignor to The Gorman-Rupp Company, Mansfield, Ohio. Apparatus for cleansing septic tanks. 2,638,224, May 12.

Russell, Carl D., assignor of five per cent to G. G. Pool, Muskogee, Okla. Refrigeration machine. 2,637,981, May 12.

Russell, John D., Cranberry Township, Venango County, Pa., assignor to Joy Manufacturing Company. Loading machine. 2,638,200, May 12.

Russum, Leonard W., Highland, and R. J. Hengstebeck, Valparaiso, Ind., assignors to Standard Oil Company, Chicago, Ill. Production of high alcohols by improved oxo process. 2,638,487, May 12.

Rust, David J., and J. H. Jensen, assignors to Ry-Lock Company, Ltd., San Leandro, Calif. Bracket unit for tension screens. 2,638,163, May 12.

Ry-Lock Company, Ltd., assignee: *See*—
Rust, David J., and Jensen.

S & C Electric Company, assignee: *See*—
Lindell, Sigurd L.

Saari, Frank E., Chicago, and G. V. W. Roth, Evanston, assignors to Monarch Equipment Co., Chicago, Ill. Sand trap cleanout. 2,638,369, May 12.

Sack, Henri S.: *See*—
Trischka, John W., and Sack.

Sackner Products, Inc., assignee: *See*—
Cook, Wayne S.

St. John, Willard M., Jr., Borger, Tex., assignor to Phillips Petroleum Company. Pentadiene polymers as elastomer additives. 2,638,461, May 12.

Salsbury's, Dr., Laboratories, assignee: *See*—
Morehouse, Neal F., and McGuire.

Samcoe Holding Corporation, assignee: *See*—
Cohn, Samuel, and Walter.

Sandos Limited, assignee: *See*—
Wehrli, Walter.

Sangamo Electric Company, assignee: *See*—
Armstrong, Clarence J.

Scheeline, Harold W.: *See*—
Drout, William M., Jr., Carlson, Scheeline, and Smith.

Schick Incorporated, assignee: *See*—
Kahn, Samuel, and Mabry.

Schipper, Robert J., Fort Mitchell, Ky., and R. A. Stacy, assignors to Avco Manufacturing Corporation, Cincinnati, Ohio. Kinescope residual beam extinction circuit. 2,638,562, May 12.

Schmitt, Otto H., Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Inertia control and damping means for galvanometers. 2,638,492, May 12.

Schneider, Earl O., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Underwater screening. 2,638,220, May 12.

Schoch, Eugene P., Austin, Tex., assignor to The Board of Regents of The University of Texas. Method and apparatus for glow discharge treatment of gases. 2,638,443, May 12.

Schoelles, Harold J., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Control device. 2,638,015, May 12.

Schotz, Otto W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Transmission control. 2,638,193, May 12.

Schreiner, Louis W., Des Plaines, Ill., assignor to Raytheon Television and Radio Corporation. Cavity tuner. 2,638,544, May 12.

Schremp, Frederick W., Elmira, assignor to Remington Rand Inc., New York, N. Y. Power operated typewriter. 2,638,199, May 12.

Schröder, Hubert, Munich, Germany, assignor to Fish-Schurman Corporation, New York, N. Y. Beam splitting means. 2,638,030, May 12.

Schroeder, George W.: *See*—
Struthers, Donald K., and Schroeder.

Schultz, Howard L., Wellesley, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Stabilization of filament supply voltage. 2,638,571, May 12.

Schulze, Edmund F., Omaha, Nebr. Ladle tipping mechanism. 2,637,883, May 12.

Schweitzer, Erich, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Tone arm indexing device. 2,638,349, May 12.

Scott, Benjamin B., Schenectady, N. Y., assignor to General Electric Company. Winding machine with minimum turn spacing device. 2,638,278, May 12.

Scott, Robert J., Blue Springs, assignor to J. C. Hockery, Kansas City, Mo., trustee. Closure plug. 2,638,242, May 12.

Sears, George R.: *See*—
McKee, Robert C., and Sears.

Selferle, Edwin J.: *See*—
Chiddix, Max E., Hesse, and Selferle.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O.

Seppmann, Alfred B., Mankato, Minn. Valve controlled brake fluid accumulator for master cylinders. 2,637,977, May 12.

Serres, Jean P. J., Paris, France. Agglomerating particles of wood and the product thereof. 2,638,421, May 12.

Seward, William, assignee: *See*—
Dorr, James F.

Seybert, Fred S.: *See*—
McFerren, Bernard T., and Seybert.

Seybold, Frederick W., Westfield, N. J., assignor to E. P. Lawson Co., Inc., New York, N. Y. Guillotine knife hydraulic clamp. 2,638,166, May 12.

Seyffert, Marion B.: *See*—
Norsworthy, Arthur C., Meidinger, Mayo, and Seyffert.

Seymour, Elizabeth W., Canton, Ohio. Clothes hamper. 2,638,399, May 12.

Sharon Steel Corporation, assignee: *See*—
McFerren, Bernard T., and Seybert.

Sharp, Paul F.: *See*—
Kempf, Clayton A., Neidlinger, Stewart, and Sharp.

Shaw, Gilbert, Middlebury, Vt. Artificial filament. 2,637,893, May 12.

Shaw-Walker Company, The, assignee: *See*—
Straus, Lois K.

Sheaffer, W. A., Pen Co., assignee: *See*—
Knobel, Max.

Sheets, Jack H., Verona, N. J., assignor to Curtiss-Wright Corporation. Propeller deicing mechanism. 2,638,295, May 12.

Shell Development Company, assignee: *See*—
Ballard, Seaver A., and Geyer.
Nixon, Alan C., and Deal.

Shelton, Winston L., Trenton, N. J., assignor to General Electric Company. Antisiphonage inlet system for washing machines and the like. 2,638,112, May 12.

Sherman, Roger M., Los Gatos, A. S. Mulgardt, Altadena, and C. E. Gray, Palo Alto, assignors to W. R. Ames Company, San Francisco, Calif. Coupling. 2,638,362, May 12.

Shiels, Herbert H., Culver City, Calif. Fusible trip mechanism for automatic cut off valves. 2,638,106, May 12.

Shusett, David R., assignee: *See*—
Berezny, Mischa N.

Sikorra, Daniel J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric regulating system utilizing a phase reversing reactive compensator. 2,638,570, May 12.

Silver, Barney, Racine, Wis. Feed attachment for alligator shears. 2,638,341, May 12.

Silver, Walter, Brooklyn, N. Y. Ornamental button covering. 2,637,885, May 12.

Simmons Company, assignee: *See*—
Woller, Edward E.

Simpson, Robert D.: *See*—
Gordon, Elwin V., Simpson, and Cardoza.

Simpson, Robert D., and E. V. Gordon, San Leandro, and F. Cardoza, assignors to Farm Production Engineers, Inc., Hayward, Calif. Apparatus for reaping seed crops. 2,637,965, May 12.

Simpson, Robert D., and E. V. Gordon, San Leandro, F. Cardoza, Hayward, and J. H. Jacobs, assignors to Farm Production Engineers, Inc., Oakland, Calif. Separating dispersed matter from fluid masses. 2,638,218, May 12.

Skinner, Roland W., Long Branch, Ontario, and A. G. Frampton, Toronto, Ontario, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Sheet metal bending brake. 2,638,141, May 12.

Skirment, Albert, Rochester, N. Y. Baffle for watch cleaning machines. 2,638,105, May 12.

Sklar, Nathan R., Chicago, Ill. Latching and releasing means. 2,637,931, May 12.

Skolmen, Torger, G. G. Roberts, and J. G. Euson, Seattle, Wash.; said Skolmen assignor to said Roberts and said Euson, jointly. Flexible ship ladder. 2,638,260, May 12.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Engine crankcase and filler device. 2,638,076, May 12.

Small, Ian H., assignor to Eli Lilly and Company, Indianapolis, Ind. Stop device. 2,638,197, May 12.

Smidth, F. L., & Co., assignee: *See*—
Vogel-Jorgensen, Mikael.

Smith, Alvin R.: *See*—
Browder, John G., and Smith.
Smith, Charles C., assignor to Smithco, Inc., Peoria, Ill. Refrigerated dispenser. 2,638,395, May 12.
Smith, Donald B.: *See*—
Northrop, John K., Fishbein, and Smith.
Smith, Donald M., Wilmington, Del. Attachment structure for laboratory clamps. 2,638,301, May 12.
Smith, Ernest A.: *See*—
Borchin, George, and Smith.
Smith, John C., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Tooth form for flexible couplings. 2,638,011, May 12.
Smith, Kenneth A.: *See*—
Lovejoy, Rex E., Smith, Harrington, and Harter.
Smith, Kenneth N., Springfield, and A. L. Oberbeck, Jefferson City, Mo. Boiler. 2,638,077, May 12.
Smith, Kline & French Laboratories, assignee: *See*—
Burger, Alfred.
Smith, Lloyd P.: *See*—
Donal, John S., Jr., Smith, and Brown.
Smith, Paul F., Jr.: *See*—
Drout, William M., Jr., Carlson, Scheeline, and Smith.
Smith, Robert H.: *See*—
Gleason, Thomas C., Smith, and Isley.
Smithco, Inc., assignee: *See*—
Smith, Charles C.
Smoleny, George J., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Refacing tool. 2,637,894, May 12.
Smyers, William H.: *See*—
Young, David W., Smyers, and Sparks.
Smythe, Marion S., Memphis, Tenn. Nether garment for supporting sanitary napkins and the like. 2,638,095, May 12.
Snyder, Almond H., Lancaster, N. Y., assignor to National Battery Company, St. Paul, Minn. Storage battery and lift device. 2,638,490, May 12.
Societe Anonyme dite: Societe Nationale de Constructions Aeronautiques Du Sud-Est, assignee: *See*—
Lecarme, Jacques A. M.
"Societe d'Apparells de Controle et d'Equipment des Moteurs" (S. A. C. E. M.) S. A. R. L., assignee: *See*—
Mennesson, Marcel.
Society: "Tele-Industrie," S. A. R. L., assignee: *See*—
De France, Henri, and Bocquel.
Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Otto, Ferdinand P., Manley, and White.
Wehrle, Joseph J.
White, Ralph V., and Landis.
White, Ralph V., and Norris.
Sonotone Corporation, assignee: *See*—
Carlisle, Richard W.
Sontheimer, Carl G., Riverside, Conn., assignor to The Liquidometer Corporation, Long Island City, N. Y. Bridge-type capacitance liquid level gauge. 2,638,000, May 12.
Spangler, Daniel H., Hamburg, Pa. Steering assembly for tandem wheel vehicles. 2,638,355, May 12.
Spannhake, Ernst W., Park Forest, assignor to Barnes & Reinecke, Inc., Chicago, Ill. Two-cycle scavenging internal-combustion engine. 2,638,081, May 12.
Sparks, George C., Chadds Ford, Pa. Display box for decorated Easter eggs. 2,638,210, May 12.
Sparks, William J.: *See*—
Young, David W., Smyers, and Sparks.
Spearing, Kenneth A., Leatherhead, England, assignor to Peabody Engineering Corporation, New York, N. Y. Register control. 2,638,158, May 12.
Spencer, Lloyd, assignee: *See*—
Bannon, Thomas C.
Sperry Corporation, assignee: *See*—
Holschuh, Carl G., and Fram.
Rawlings, Arthur L.
Sperry, Paul A., New Haven, Conn. Web tensioning device. 2,637,891, May 12.
Spotts, Lee E., Slater, assignor of one-half to W. H. Ferguson, St. Louis, Mo. Round refrigerator. 2,638,400, May 12.
Spring, Frank S., Grosse Pointe, assignor to Hudson Motor Car Company, Detroit, Mich. Rear window for convertible automobile tops. 2,638,379, May 12.
Springer, Henry A., Cincinnati, Ohio. Knife having a replaceable blade. 2,637,904, May 12.
Sprung, Edwin G., assignor to General Motors Corporation, Detroit, Mich. Brake lever. 2,638,017, May 12.
Spurr, Winfred F., assignor to Ace Art Company, Reading, Mass. Label package and dispenser. 2,638,211, May 12.
Square D Company, assignee: *See*—
Jackson, John G.
Mierendorf, Robert C.
Stacy, Robert A.: *See*—
Schipper, Robert J., and Stacy.
Stafford, Martin L., assignor of one-half to J. M. Resume, Los Angeles, Calif. Waste water utilizer for garbage disposals. 2,637,855, May 12.
Stamm, Karl, Berlin-Wilmersdorf, Germany. Rail fastening. 2,638,276, May 12.
Standard Oil Company, assignee: *See*—
Cerveny, William J.
Russum, Leonard W., and Hengstebeck.
Standard Oil Development Company, assignee: *See*—
Browder, John G.
Browder, John G., and Smith.
Crookston, Robert R.
Drout, William M., Jr., Carlson, Scheeline, and Smith.
Hoffmann, Edward J., and Wadley.
Lewis, Warren K.
Lewis, Warren K., Jr.
Mertzweiller, Joseph K.
Rowan, Robert, Jr.
Starr, Charles E., Jr., McAdams, and Billisoly.
Steeves, Asa B.
Wasson, Jones I.
Young, David W., Smyers, and Sparks.
Zenor, Hughes M.
Standolind Oil and Gas Company, assignee: *See*—
Doolittle, Waddie W.
Eliot, Theodore O.
Evans, John R., Elkins, and Klinzing.
Stapleton, Joie L., Lawrence, Kans. Game net end member. 2,638,346, May 12.
Stark Ceramics, Inc., assignee: *See*—
Ramsay, William S.
Starr, Charles E., Jr., D. R. McAdams, and J. P. Billisoly, Baton Rouge, La., assignors to Standard Oil Development Company. Alkaline earth fluoride treatment of used cracking catalysts. 2,638,453, May 12.
Stead, Ernest, A. Murray, and D. Burtonshaw, assignors to Yorkshire Dyeware and Chemical Company Limited, Leeds, England. Dyeing of nylon with sulfonamide azo dyes. 2,638,403, May 12.
Steeves, Asa B., Metuchen, N. J., assignor to Standard Oil Development Company. Apparatus for close temperature control of catalyzed gas reactions. 2,638,407, May 12.
Stellin, Domnic V., Chicago, Ill. Making a vaned member. 2,638,019, May 12.
Stenkvist, Emil, and E. Gudmundsson, Ludvika, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in protecting relays for liquid-filled electrical apparatus. 2,638,120, May 12.
Stevens, J. P., & Co., Inc., assignee: *See*—
Winslow, Albert E.
Stewart, Aubrey P., Jr.: *See*—
Kempf, Clayton A., Neidlinger, Stewart, and Sharp.
Stewart, S. Grant: *See*—
Mayland, Bertrand J., and Stewart.
Stienen, Ernest A., Peekskill, N. Y. Dyeing apparatus for textile packages. 2,637,992, May 12.
Stienen, Ernest, A., Peekskill, N. Y. Apparatus for fluid treatment of yarn packages and the like. 2,637,993, May 12.
Stilson, Herbert A., Chicago, assignor to McGill Metal Products Company, Marengo, Ill. Animal trap. 2,637,932, May 12.
Stockwell, Clifford H., Ottawa, Ontario, Canada. Projection viewing and calculating device. 2,638,031, May 12.
Stoddard, David F.: *See*—
Horne, Richard C., and Stoddard.
Stokes Molded Products, Inc., The, assignee: *See*—
Laning, Edwin R.
Stornetta, James R.: *See*—
Stornetta, Leroy F. and J. R., and Armstrong.
Stornetta, Leroy F. and J. R., Brentwood, and J. M. Armstrong, Byron, Calif. Seed broadcasting implement. 2,638,351, May 12.
Stott, Reginald R.: *See*—
Jones, John E., and Stott.
Stratton, Glen S., deceased, New York, N. Y., R. M. Stratton, Cook County, Ill., administrator of said G. S. Stratton, assignor to R. H. Hallsted, New Canaan, Conn. Barrier for motor vehicle parking systems. 2,637,920, May 12.
Stratton, Robert M., administrator: *See*—
Stratton, Glen S.
Straus, Lois K., Great Neck, N. Y., assignor to The Shaw-Walker Company, Muskegon, Mich. Payroll board. 2,638,300, May 12.
Striar, Max B., Worcester, Mass. Knitting machine. 2,637,988, May 12.
Strobino, Gaston M., Chicago, Ill. Wind instrument. 2,638,027, May 12.
Strom, William M.: *See*—
Kieffer, Joseph D., III, and Strom.
Struthers, Donald K., and G. W. Schroeder, Des Moines, Iowa. Control for tractor mounted manure loaders. 2,638,237, May 12.
Sturdivant, Robert, Nashville, Tenn. Rope locking pulley assembly. 2,638,184, May 12.
Sturmer, Robert L., assignor to Nelson Specialty Corporation, San Leandro, Calif. Automatic snap-acting fluid pressure inflator. 2,638,113, May 12.
Sutton, James M., Long Beach, Calif. Package wrapping apparatus. 2,637,961, May 12.
Swanson, Robert E., Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Nathan Manufacturing Corp. Sound producing device for signaling purposes. 2,638,070, May 12.
Sweeney, B. K., Manufacturing Company, assignee: *See*—
Sweeney, John F., Able, and MacKay.
Sweeney, John F., E. T. Able, and I. A. MacKay, assignors to B. K. Sweeney Manufacturing Company, Denver, Colo. Wrench for use with an airplane propeller. 2,638,026, May 12.

Swendsen, Jack: *See*—
Weygang, William O., and Swendsen.
Swift, William, Sutton Coldfield, and H. Coley, Cradley, assignors to Joseph Lucas Limited, Birmingham, England. Means for baring the ends of insulated electrical conductors. 2,637,864, May 12.
Syntron Company, assignee: *See*—
Alvord, Grove D.
Szilkai, George C., Princeton, N. J., assignor to Radio Corporation of America. Cathode-ray oscillator tube. 2,638,561, May 12.
Taddonio, Joseph, East Boston, Mass. Display apparatus. 2,637,923, May 12.
Taggart, Marion A.: *See*—
Chu, Lan J., and Taggart.
Tardie, Anna C.: *See*—
Tardie, Norman and A. C.
Tardie, Norman and A. C., Lawrence, Mass. Clothesline pole. 2,638,231 May 12.
Tarr, Robert G., Villa Park, assignor of one-half to J. C. Webb, Chicago, Ill., and one-half to T. Moody, Memphis, Tenn. Mechanism for making and depositing balls of ice cream or the like. 2,638,065, May 12.
Tate, John F. P., New York, N. Y. Vacuum thermal insulating panel. 2,638,187, May 12.
Taylor, Morris P., Palo Alto, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Fluid buffing device. 2,638,339, May 12.
Taylor, Newcomb D., Long Beach, assignor to The Hancock Oil Company of California, Signal Hill, Calif. Injection of additives into fluids being dispensed. 2,638,247, May 12.
Taylor, Taylor & Hobson Limited, assignee: *See*—
Wreathall, William M.
Teague, Walter D., Jr., Alpine, assignor to Bendix Aviation Corporation, Teterboro, N. J. Suction regulating valve. 2,638,107, May 12.
Technical Service Corporation, assignee: *See*—
Norsworthy, Arthur C., Meidinger, Mayo and Seyffert.
Technicon Cardiograph Corporation, assignee: *See*—
Lukacs, Joseph.
Tenbrink, Everett W., Dodge City, Kans. Tractor engine starting apparatus. 2,638,002, May 12.
Tevebaugh, Arthur D., Ames, Iowa, and F. Vaslow, Los Alamos, N. Mex., assignors to the United States of America as represented by the United States Atomic Energy Commission. Production of uranium tetrafluoride. 2,638,406, May 12.
Texas Company, The, assignee: *See*—
Kreus, Kenneth L., and Hurd.
Lee, Burton D.
Thacker, Millard P., Fort Sam Houston, Tex. Insignia placing device for combat jackets. 2,637,909, May 12.
Thomas, Arthur, Wallington, assignor to Powers-Samas Accounting Machines Limited, London, England. Accumulator for use in statistical machines. 2,638,275, May 12.
Thomas & Betts Co., The, assignee: *See*—
Bergan, Martin D.
Thomas, Earl R., Englewood, N. J., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Contact for electrical conductors of aluminum or aluminum alloys. 2,638,521, May 12.
Thompson, Marcus C., Pasadena, Calif. Razor blade cartridge unit. 2,637,900, May 12.
Thompson, Warren L. and R. W., Provine, and J. V. Lawson, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Wax composition. 2,638,411, May 12.
Thomson, John W., assignor to Benner-Nawman, Inc., Oakland, Calif. Pot type fuel oil burner. 2,638,160, May 12.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Sprag type clutch. 2,638,195, May 12.
Timefax Corporation, assignee: *See*—
Cooley, Austin G., and Dalton.
Tissage Leonard Maere: Societe Anonyme, assignee: *See*—
Van Risseghem, Firmin G. H.
Tizzard, Thomas W., Jr., Downers Grove, Ill., assignor to Westinghouse Air Brake Company. Four-indication signal control system embodying polar biased code following and polarized line relays. 2,638,536, May 12.
Toepper, Otto W., assignor to Johnson Fare Box Company, Chicago, Ill. Card selecting apparatus. 2,638,098, May 12.
Toland, Wayne G., Canton, Ill., assignor to International Harvester Company. Power-lift attachment for implements. 2,638,044, May 12.
Tollenaar, Frederik D., Utrecht, assignor to de Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Voeding, The Hague, Netherlands. Preparation of a stable butter. 2,638,420, May 12.
Tollison, Paul L., North Plainfield, assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Web accelerating mechanism for web splicing devices. 2,638,281, May 12.
Tomlinson, Archie F., Oakland, Calif. Retractable brush and casing therefor. 2,637,869, May 12.
Toth, Emerick, Takoma Park, Md. Biased series-type noise limiter and silencer. 2,638,540, May 12.
Towler, John M., Rodley, England, assignor of one-half to Mavor & Coulson, Limited, Glasgow, Scotland. Pneumatically controlled hydraulic prop. 2,638,075, May 12.
Towse, Roy S., assignor to Utility Tool Company, Inc., Weiser, Idaho. Vehicle mover. 2,638,317, May 12.
Trapeur, Walter A., Sutherlin, Oreg. Line up trough for resawing machines. 2,638,133, May 12.
Trautwein, Walther, administrator: *See*—
Hora, Josef.
Trischka, John W., New York, and H. S. Sack, Ithaca, N. Y., assignors to the United States of America as represented by the Secretary of the Navy. Integrating circuit. 2,638,493, May 12.
Tufts, William F., Atlanta, Ga. Novel ornamental accessory for vehicles. 2,637,928, May 12.
Tuller, Walter M., Washington, D. C. Travel case. 2,638,192, May 12.
Tunley, Allan A., assignor to Baker Perkins Limited, Peterborough, England. Adjustment means for the rolls of multiroll chocolate and like refining machines. 2,638,388, May 12.
Turnbull, Frederick M., assignee: *See*—
Hamilton, William F.
Turner, George K., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Microcoulometer. 2,638,491, May 12.
Tuttle, Orville F.: *See*—
Friedman, Isidore L., and Tuttle.
Ulrich, Martin T., Centerville, Calif. Knockdown table. 2,638,394, May 12.
Union Carbide and Carbon Corporation, assignee: *See*—
Harry, John B.
Unitcast Corporation, assignee: *See*—
Ingram, Orville.
United Aircraft Corporation, assignee: *See*—
Horne, Richard C., and Stoddard.
Lindstrom, Frithjof J.
Meitzler, Donald E.
Smith, John C.
United Bulk Products Corporation, assignee: *See*—
Kanter, Mike.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Borkowski, Casimer J.
Plott, Robert F.
Tevebaugh, Arthur D., and Vaslow.
University of Texas, The Board of Regents of The, assignee: *See*—
Schoch, Eugene P.
Urbano, Joseph V., Newark, N. J. Clamp and actuating mechanism therefor for setting adhesively bound facings to clutch plates. 2,638,144, May 12.
Urso, Ralph F., Grosse Pointe, A. W. Gardes, Detroit, and E. L. Carleton, Wyandotte, assignors to McCord Corporation, Detroit, Mich. Indicating check valve. 2,638,582, May 12.
Utility Tool Company, Inc., assignee: *See*—
Towse, Roy S.
Van der Heiden, Arnoldus L., Amersfoort, assignor to Vennootschap onder firma A. G. F. Knopenfabriek, Rhenen, Netherlands. Crown drill and making same. 2,638,021, May 12.
Van Mierlo, Stanislas, Antwerp, Belgium, and B. Derjavitch, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Pulse electronic switching system. 2,638,505, May 12.
Van Risseghem, Firmin G. H., assignor to Tissage Leonard Maere: Societe Anonyme, Ghent, Belgium. Fabric. 2,638,129, May 12.
Van Tassel, Harry C., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Railway switch controlling apparatus. 2,638,537, May 12.
Varco, Samuel, Buffalo, N. Y. Pelvic traction belt. 2,638,091, May 12.
Vargo, Frank J., St. Louis County, assignor to Alco Valve Company, University City, Mo. Four-way change-over valve. 2,638,123, May 12.
Vaslow, Fred: *See*—
Tevebaugh, Arthur D., and Vaslow.
Velth, John E., assignee: *See*—
Battle, Wingate.
Veenootschap onder firma A. G. F. Knopenfabriek, assignee: *See*—
van der Heiden, Arnoldus L.
Victor, Joseph N., Bethlehem, Pa. Control mechanism 2,638,164, May 12.
Victory Engineers Limited, assignee: *See*—
Fishwick, Robert.
Vigness Irwin: *See*—
Kamnier, Erwin W., Vigness, and Holt.
Vogel-Jorgensen, Mikael, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Conveying apparatus. 2,638,385, May 12.
Vroom, Kenneth E.: *See*—
O'Brien, Joseph F., Cataldo, and Vroom.
Wade Electric Products Company, assignee: *See*—
Winkelmeyer, Robert D., and Herterick.
Wadley, Edward F.: *See*—
Hoffman, Edward J., and Wadley.
Wagner, Bernard, Crafton, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Float valve. 2,638,111, May 12.
Wagner, Carl J., Detroit, Mich. Trailer attached jack. 2,638,315, May 12.

Wahlmark, Gunnar A., Rockford, Ill. Pressure regulating valve. 2,638,109, May 12.

Waldhaus, Edith A., Birmingham, Ala. Apparatus for oral anesthesia. 2,638,096, May 12.

Waldron, Stoddard S., Levittown, N. Y., assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Vapor generator and multipass superheater with a vapor temperature control system. 2,638,079, May 12.

Walkup, Lewis E., Columbus, Ohio, and E. N. Wise, Los Alamos, N. Mex., assignors, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Developer composition for developing an electrostatic latent image. 2,638,416, May 12.

Wallace, William D.: *See*—
Danielson, Vernon S., and Wallace.

Wallmark, John T., Bromma, Sweden, assignor to Radio Corporation of America. Impulse counting tube. 2,638,541, May 12.

Walter, Jules G.: *See*—
Cohn, Samuel, and Walter.

Walton, Clifford, Buffalo, N. Y. Sign. 2,637,925, May 12.

Ward, Charles J., assignor to Hugh H. Eby, Inc., Philadelphia, Pa. Electric fuse holder. 2,638,520, May 12.

Wasson, Jones I., Union, N. J., assignor to Standard Oil Development Company. Lubricant for pneumatic tools and the like. 2,638,446, May 12.

Watermann, William J., Elgin, Ill. Adjustable finger cot or protector. 2,637,850, May 12.

Watkins, William C., Los Angeles, Calif. Combined door and window. 2,637,878, May 12.

Watkins, William C., Los Angeles, Calif. Steel window structure. 2,638,189, May 12.

Watkins, William C. Los Angeles, Calif. Combined door and window. 2,638,190, May 12.

Webb, Charles D. H., assignor to The Pleasey Company Limited, Ilford, England. Plug and socket having a spring-pressed latch. 2,638,574, May 12.

Webb, Jack C., assignee: *See*—
Tarr, Robert G.

Webster, Raymond C., assignor to W. E. Anderson, Inc., Kansas City, Mo. Flowmeter for oxygen tanks. 2,637,997, May 12.

Wegner Machinery Corporation, assignee: *See*—
Weygang, William G., and Swendsen.

Wehrle, Joseph J., Clarksboro, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Mineral oil. 2,638,448, May 12.

Wehrli, Walter, assignor to Sandoz Limited, Basel, Switzerland. Copper-contained azo dyestuffs. 2,638,468, May 12.

Weigele, Albert E.: *See*—
Koenig, Christian A., and Weigele.

Weimont, Joseph: *See*—
Marsh, Alonzo K., and Weimont.

Weinberg, Edwin A., assignor to The Ludlow Valve Manufacturing Co., Inc., Troy, N. Y. Frangible connection. 2,638,368, May 12.

Weinberger, Morris, New York, assignor of one-half to D. M. Klein, Cedarhurst, N. Y. Article holder. 2,638,297, May 12.

Weir, G. & J., Limited, assignee: *See*—
Hillier, Harold.

Weiss, Alexander C. H., Silver Spring, Md. Apparatus for treating pulp and resin mixtures. 2,637,915, May 12.

Wellstein, Wilhelm, assignor to Ex-Cell-O Corporation, Detroit, Mich. Multiple coin controlled mechanism. 2,638,198, May 12.

Wenning, Elmer C.: *See*—
Corbitt, Willard M., and Wenning.

West Bend Aluminum Co., assignee: *See*—
Kircher, Ralph N., and Laabs.
Mueller, Frederick W.

Westinghouse Air Brake Company, assignee: *See*—
Doucette, Adrian R.
Martin, Paul N.
Tizzard, Thomas W., Jr.
Van Tassel, Harry C.
Young, Henry S.

Westinghouse Electric Corporation, assignee: *See*—
Dyche, Howard E., Jr., and Cardwell.
Hague, Floyd T.
Hanna, Clinton R.

Wetsel, Cecil L., Sacramento, Calif. Scale for lift trucks. 2,638,336, May 12.

Wetzel, Nelson F., Indianapolis, Ind. Antifreezing and nonpolluting water valve. 2,638,114, May 12.

Weygang, William G., East Meadow, and J. Swendsen, Lynbrook, assignors to Wegner Machinery Corporation, Long Island City, N. Y. Apparatus for treating chocolate or the like. 2,638,329, May 12.

Wheeler, Donald H., Minneapolis, Minn., assignor to General Mills, Inc. Hydrogenated phenolic resin esters. 2,638,458, May 12.

Whitaker, John E., Monroe, La. Holder for a telephone and telephone directory. 2,638,398, May 12.

White, Clayton F. A., Stelton, and J. R. Hill, Piscataway Township, Middlesex County, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic films having a stripping layer composed of a mixture of ethyl cellulose and cellulose nitrate. 2,638,417, May 12.

White, Gerald, Rossford, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Sheet edging apparatus. 2,637,951, May 12.

White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Convertible suction cleaner with agitator drive disengaging means. 2,637,874, May 12.

White, Ralph V.: *See*—
Otto, Ferdinand P., Manley, and White.

White, Ralph V., Pitman, and H. D. Norris, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Reaction products of fatty acids, dialkanolamines, and alkenyl succinic acid anhydrides. 2,638,449, May 12.

White, Ralph V., Pitman, and P. S. Landis, Glassboro, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Reaction products of N-alkylated polyalkylene-polyamines and alkenyl succinic acid anhydrides. 2,638,450, May 12.

Whiteley, Robert L., Oak Park, and H. B. Hostetler, Maywood, assignors to Randall Graphite Products Corporation, Chicago, Ill. Side mount pillow block bearing. 2,638,389, May 12.

Whittaker, June H.: *See*—
Bowman, John R., Ridenour, and Whittaker.

Wicklatz, John E.: *See*—
Reynolds, William B., Wicklatz, and Kennedy.

Wilkerson Sword Company Limited, The, assignee: *See*—
Mathisen, Anders.

Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Rail car truck. 2,638,058, May 12.

Williams, Charles R., Hawthorne, and G. E. Hagen, Lawndale, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Stabilizing means for cold cathode tube flip-flop circuits. 2,638,564, May 12.

Williams, Edward S., New Philadelphia, Ohio. Plumb bob carrier. 2,637,913, May 12.

Williams, Elizabeth G., assignee: *See*—
Williams, Robert O. and O. E.

Williams, Leonard W., Birchrunville, assignor to Lukens Steel Company, Coatesville, Pa. Corrosion inhibiting vessel construction. 2,638,338, May 12.

Williams, Norman C., and R. W. Fishwood, assignors to Power Brake Equipment Co., Portland, Oreg. Push-pull control valve. 2,638,108, May 12.

Williams, Owen E.: *See*—
Williams, Robert O. and O. E.

Williams, Robert O. and O. E.; said O. E. Williams assignor to E. G. Williams, Jackson Heights, N. Y. Blas safety razor blade. 2,637,905, May 12.

Willson, Corwin D., Flint, Mich. Sedan having versatile structure. 2,638,374, May 12.

Wilson Jones Company, assignee: *See*—
Marano, Herbert W.

Wilson, Walter G., Martyr Worthy, near Winchester, England. Fluid operated multiple disk clutch. 2,638,196, May 12.

Wingfoot Corporation, assignee: *See*—
Borders, Alvin M.
Gates, George H.

Winkelman, Harvey E., and R. E. Hinger, Cleveland Heights, Ohio, assignors to National Cylinder Gas Company, Chicago, Ill. Post-mix, multiple outlet gas burner. 2,638,159, May 12.

Winkelmeyer, Robert D., Cincinnati, Ohio, and V. R. Herterick, assignors to Wade Electric Products Company, Sturgis, Mich. Apertured panel socket mount. 2,638,575, May 12.

Winslow, Albert E., Greenville, S. C., assignor to J. P. Stevens & Co., Inc. Automatic tail winder for yarn packages. 2,638,279, May 12.

Wise, Edward N.: *See*—
Walkup, Lewis E., and Wise.

Witherspoon, John F.: *See*—
Arenson, Herbert, and Witherspoon.

Woessner, Carl: *See*—
Gottlieb, Joseph, Woessner, and Eickemeyer.

Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Draft attachment. 2,638,233, May 12.

Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Retractable panel for sofa berths. 2,637,856, May 12.

Wood Newspaper Machinery Corporation, assignee: *See*—
Tollison, Paul L.

Woodbury, Roger B., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Circuit for neutralization of frequency divider chains. 2,638,549, May 12.

Woods, Frank S.: *See*—
MacQuarrie, Fred L., and Woods.

Wutring, Gaylord H., Fairfield, Conn., assignor to General Electric Company. Soil strainer attachment for dishwashers. 2,638,104, May 12.

Wreathall, William M., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Three convergent component optical objective. 2,638,034, May 12.

Wykoff, Richard T., Clearwarter, Fla. Combination paint box and easel. 2,638,397, May 12.

Yard, Edward M., Trenton, N. J. Drying capsule. 2,638,179, May 12.

Yorkshire Dyeware and Chemical Company Limited, assignee: *See*—
Stead, Ernest, Murray, and Burtonshaw.

Young, Charles M., Jr.: *See*—
Maeschoot, Albert, Bergmann, and Young.

Young, David W., Roselle, W. H. Smyers, Westfield, and W. J. Sparks, Cranford, N. J., assignors to Standard Oil Development Company. Sulfonated high molecular weight styrene-olefin copolymers. 2,638,445, May 12.

Young, Henry S., Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company. Centralized traffic control system of the normally deenergized reversible coded track circuit type. 2,638,535, May 12.

Young, Walter H.: *See*—
Lloyd, Raymond G., and Young.

Youngstown Sheet & Tube Company, The, assignee: *See*—
Aubrey, Richard, Jr., and V. J.

Zaffarano, Frank P., assignor to General Railway Signal Company, Rochester, N. Y. Pulse stretching prevention circuit. 2,638,511, May 12.

Zahn, Elmer, Falfurrias, Tex. Mixing machine. 2,638,252, May 12.

Zarski, Myron A., Brooklyn, N. Y. Accelerator controlled switch. 2,638,517, May 12.

Zeltouni, Caesar D., assignee: *See*—
Brami, Joseph.

Zelley, Walter G., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Brightening nickel. 2,638,410, May 12.

Zenor, Hughes M., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Underwater measuring device. 2,638,001, May 12.

Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Latching device for hopper cars. 2,638,062, May 12.

Zoblan, James G., Roslyn, N. Y. Stand lamp having an illuminated base. 2,638,533, May 12.

Zurn, J. A., Manufacturing Company, assignee: *See*—
Heindlhofer, Kalman.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Amines as gel-shrinkage reducing agents in synthetic-rubber sponge. L. A. Wohler and E. Schmidt. Re. 23,656, May 12.

Ballast removing apparatus. E. M. Thornley. Re. 23,655, May 12.

Trimethylsilylphenoxy esters. J. L. Speier, Jr. Re. 23,654, May 12.

LIST OF PLANT INVENTIONS

Juniper plant. C. White. 1,186, May 12.
Pear tree. W. H. Eller. 1,184, May 12.

Rose plant. O. L. Weeks. 1,185, May 12.
Saintpaulia plant. F. Rahbek. 1,187, May 12.

LIST OF DESIGN INVENTIONS

Bin, Display. L. Keyserling. 169,552, May 12.
Bowl or similar article. J. B. Stier. 169,568, May 12.
Bracket, Caster. E. H. Schultz, Jr. 169,564, May 12.
Broiler and toaster, Combination. W. N. Angelos. 169,528, May 12.
Coin holder attachment for automobile visors or the like. B. Katz. 169,550, May 12.
Cooling basin for air-conditioning unit. M. M. Cunningham. 169,531, May 12.
Doorknob. M. Kendrick. 169,551, May 12.
Drawer pull. J. R. Deadrick. 169,532–3, May 12.
Earring or the like. A. Katz. 169,543–9, May 12.
First-aid kit or similar article. W. C. Littlejohn. 169,542, May 12.
Girdle. M. Laguzzi. 169,553, May 12.
Handkerchief box and tie rack, Combined. P. W. Robinson. 169,563, May 12.
Handle, Drawer pull. J. E. Fellowes. 169,538, May 12.
Knife and scissors sharpener. A. J. Folli. 169,539, May 12.
Knife sharpener. E. E. Case. 169,530, May 12.
Lace. H. Farnsworth. 169,537, May 12.
Lace or similar article. B. Edson. 169,536, May 12.
Playing cards, Set of. Y. Matthews. 169,557, May 12.
Popper, Corn. E. E. Sivacek. 169,565, May 12.
Ring. R. D. Strathmeyer. 169,569, May 12.
Seal. P. F. W. Henning. 169,542, May 12.
Shaker, Combined pepper-and-salt. T. A. Prus. 169,560, May 12.
Shoe or similar article. R. Maling. 169,556, May 12.
Slipper or similar article. J. E. Disch. 169,535, May 12.
Sound translating machine. C. L. Otto. 169,559, May 12.
Sound translating machine. R. M. Somers. 169,556, May 12.
Spelling appliance or similar article, Educational. W. C. Rieck. 169,562, May 12.
Sunglasses, Pair of. E. F. Von Seekamm. 169,570, May 12.
Tamper for chopping machines. H. J. Raymond. 169,561, May 12.
Tire, Pneumatic. A. H. Steadman. 169,567, May 12.
Toy automobile. E. Handler. 169,541, May 12.
Toy helicopter. B. Nagler. 169,558, May 12.
Toy,Tumbling. J. Baron. 169,529, May 12.
Vacuum tube extractor and terminal pin straightener. L. A. Fountain and D. Phillips. 169,540, May 12.
Vial, Perfume. C. M. Del Mas. 169,534, May 12.
Wheel cover member or similar article. G. A. Lyon. 169,555, May 12.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive articles. N. P. Robie. 2,638,413, May 12.
Abrasive belt, Coated. W. G. Nuessle. 2,637,956, May 12.
Abrasive ribbon holder. J. Batura. 2,637,955, May 12.
Acceleration sensing device. W. Hauaz. 2,638,556, May 12.
Accelerator controlled switch. M. A. Zarski. 2,638,317, May 12.
Accelerator holding means. D. J. Munson. 2,638,016, May 12.
Accelerometer, Bonded wire strain-gauge. E. W. Kammer, I. Vigness, and S. G. Holt. 2,638,335, May 12.
Accessory for vehicles, Novel ornamental. W. F. Tufts. 2,637,928, May 12.
Accumulator for use in statistical machines. A. Thomas. 2,638,275, May 12.
Adjustment means for the rolls of multiroll chocolate and like refining machines. A. A. Tunley. 2,638,388, May 12.
Agglomerating particles of wood and the product thereof. J. P. J. Serres. 2,638,421, May 12.
Aircraft cowling seal. L. Avondoglio. 2,638,287, May 12.
Aircraft crash or impact detecting device and electric system associated therewith. A. Mathisen. 2,638,286, May 12.
Air dispersion inlet means for combustion apparatus. F. T. Hague. 2,637,975, May 12.
Air filter. H. Herkimer. 2,638,180, May 12.
Air heating furnace. T. C. Gleason, R. H. Smith, and M. J. Isley. 2,638,086, May 12.
Air shutter for gas burners. D. F. Jones. 2,638,161, May 12.
Album. J. R. Kennedy. 2,638,099, May 12.
Alginic acid sulfate, Production of. H. E. Alburn. 2,638,470, May 12.
Alginic acid sulfate production. H. E. Alburn. 2,638,469, May 12.
Alkaline earth fluoride treatment of used cracking catalysts. C. E. Starr, Jr., D. R. McAdams, and J. P. Bilisoly. 2,638,453, May 12.
Altimeter with mechanically driven indicator, Pulse echo. R. C. Ballard. 2,638,587, May 12.
Alumina-metal oxide dehydrogenation catalyst and its preparation. E. W. Pitzer. 2,638,455, May 12.
Amine treating and dehydration of gases. H. D. Frazier. 2,638,405, May 12.
Amplifying system, Direct coupled. C. E. Bessey. 2,638,512, May 12.
Ampoule breaker. S. Reyes. 2,638,022, May 12.
Amusement figure, Animated. J. T. Fugitt. 2,637,940, May 12.
Animal trap. H. A. Stilson. 2,637,932, May 12.
Animated figure. F. L. Dale and L. L. McMickle. 2,637,936, May 12.
Antenna, Pillbox. L. J. Chu and M. A. Taggart. 2,638,546, May 12.
Antenna, Radio. W. H. De Peau and H. M. Pomeroy. 2,638,545, May 12.
Antifreezing and nonpolluting water valve. N. F. Wetzel. 2,638,114, May 12.
Antigen for determination of syphilis and making the same from yeast. P. Fugazzotto. 2,638,435, May 12.
Antisiphonage inlet system for washing machines and the like. W. L. Shelton. 2,638,112, May 12.
Apparatus for cleansing septic tanks. W. E. Ropp. 2,638,224, May 12.
Apparatus for close temperature control of catalyzed gas reactions. A. B. Steeves. 2,638,407, May 12.
Apparatus for converting electrical frequency variations into amplitude variations. C. L. Cuccia. 2,638,539, May 12.
Apparatus for determining well pressures. J. H. Ramser. 2,637,998, May 12.
Apparatus for feeding webs. C. D. Knowlton. 2,638,037, May 12.
Apparatus for fluid treatment of yarn packages and the like. E. A. Stienen. 2,637,993, May 12.
Apparatus for forming glassware. C. F. Claughsey. 2,637,944, May 12.
Apparatus for impregnating textile materials. J. Rockoff. 2,637,892, May 12.
Apparatus for oral anesthesia. E. A. Waldhaus. 2,638,096, May 12.
Apparatus for producing concrete roof tiles. A. L. Bushore. 2,637,888, May 12.
Apparatus for producing type proof and photoprints thereof. J. F. Murphy. 2,638,040, May 12.
Apparatus for reaping seed crops. R. D. Simpson, E. V. Gordon, and F. Cardoza. 2,637,965, May 12.
Apparatus for the production of controlled saturated steam vapor. G. L. Hall. 2,638,383, May 12.
Apparatus for treating chocolate or the like. W. G. Weygang and J. Swendsen. 2,638,326, May 12.
Apparatus for treating pulp and resin mixtures. A. C. H. Weiss. 2,637,913, May 12.
Appliance for massaging and exercising human feet. R. F. Johnson. 2,638,088, May 12.
Arrangement in protecting relays for liquid-filled electrical apparatus. E. Stenkvist and E. Gudmundsson. 2,638,120, May 12.
Article escapement mechanism for conveyers. S. T. Carter. 2,638,202, May 12.
Article holder. M. Weinberger. 2,638,297, May 12.
Article packaging machine. J. A. Dreher. 2,637,959, May 12.
Artificial filament. G. Shaw. 2,637,893, May 12.
Arylaminomethylenemalonates, Preparing. S. A. Glickman. 2,638,480, May 12.
Attachment structure for laboratory clamps. D. M. Smith. 2,638,301, May 12.
Automatic brake. J. H. Prowinsky. 2,638,183, May 12.
Automotive suspension system. J. P. Butterfield and V. Hughes. 2,638,336, May 12.
Auxiliary hydraulic load control and actuator for tractor drawn implements. D. C. Heitsbu. 2,638,045, May 12.
Baffle for watch cleaning machines. A. Skirment. 2,638,105, May 12.
Bag for vacuum sealing, Flexible. C. J. Jesnig. 2,638,263, May 12.
Balanced door. P. M. Hanssen. 2,637,877, May 12.
Ballistic mechanism. C. G. Holschuh and D. Fram. 2,638,269, May 12.
Baring the ends of insulated electrical conductors, Means for. W. Swift and H. Coley. 2,637,864, May 12.
Barrier for motor vehicle parking systems. G. S. Stratton. 2,637,920, May 12.
Basket, Ironing board. E. H. Mayhew. 2,637,918, May 12.
Batch feeder control, Continuous. G. D. Alvord. 2,638,248, May 12.
Battery and lift device, Storage. A. H. Snyder. 2,638,490, May 12.
Beam splitting means. H. Schröder. 2,638,030, May 12.
Bearing: *See*—
  Side mount pillow block bearing.
Bed attachment. M. B. Miskimen. 2,637,859, May 12.
Belt, Edge-active. P. B. Reeves. 2,638,007, May 12.
Bending machine having oscillating anvil die and reciprocable ironing die. L. H. Green. 2,638,142, May 12.
Bicycle, Manually energized and spring operated. J. H. Crumble. 2,638,359, May 12.
Binary multiplying circuit. G. C. Hartley and W. J. Reynolds. 2,638,267, May 12.
Block: *See*—
  Quench block.
Board: *See*—
  Payroll board.
  Sectional collapsible pressing board.
Boiler. K. N. Smith and A. L. Oberbeck. 2,638,077, May 12.
Bottle filling device. O. B. Hagen and H. J. Multhauf. 2,638,256, May 12.
Box cover. C. A. Clark. 2,638,241, May 12.
Box for decorated Easter eggs, Display. O. C. Sparks. 2,638,210, May 12.
Bracket unit for tension screens. D. J. Rust and J. H. Jensen. 2,638,163, May 12.
Brake: *See*—
  Automatic brake.
  Sheet metal bending brake.
Brake adjuster, Hydraulic. B. W. Oswalt. 2,638,186, May 12.
Brake fluid accumulator for master cylinders, Valve controlled. A. B. Seppmann. 2,637,977, May 12.
Brake for power cycles, Starter. A. I. Poulsen. 2,638,175, May 12.
Brake for vehicles, Safety. C. W. Gray. 2,638,194, May 12.
Brake holding device. D. A. Baird. 2,638,119, May 12.
Brassière. M. A. Peck. 2,637,831, May 12.
Bridge-type capacitance liquid level gauge. C. G. Sontheimer. 2,638,000, May 12.

Brightening nickel. W. G. Zelley. 2,638,410, May 12.
Broom machine. E. C. C. Miller. 2,638,277, May 12.
Brush and casing therefor, Retractable. A. F. Tomlinson. 2,637,809, May 12.
Brush, Sponge rubber. G. H. Moser. 2,637,871, May 12.
Buffing device, Fluid. M. P. Taylor. 2,638,339, May 12.
Buffing wheel. M. Kanter. 2,637,957, May 12.
Buoyant chamber scuttling device. R. L. Freas. 2,637,862, May 12.
Burner : *See*—
Post-mix, multiple outlet Pot type fuel oil burner.
gas burner.
Burner for turbojet engines and the like, After. R. G. Lancher. 2,637,972, May 12.
Butadiene polymers as elastomer additives. W. W. Crouch. 2,638,460, May 12.
Butter, Preparation of a stable. F. D. Tollenaar. 2,638,420, May 12.
Button covering, Ornamental. W. Silver. 2,637,885, May 12.
Button panel key. P. G. Lewis. 2,638,012, May 12.
Cabinet : *See*—
Open front refrigerated cabinet.
Calculating machine, Duplex. W. J. Pasinski. 2,638,271, May 12.
Can holding and brush wiping device, Combined. G. O. Loesel. 2,638,245, May 12.
Capsule, Drying. E. M. Yard. 2,638,179, May 12.
Car washer with air-actuated agitator, Automatic. M. N. Berezny. 2,637,873, May 12.
Carburetor. H. Morgenroth. 2,638,330, May 12.
Card selecting apparatus. O. W. Toepper. 2,638,098, May 12.
Card selecting mechaniam. V. E. Friedewald. 2,638,215, May 12.
Cargo pack, All-wing. J. K. Northrop, M. Fishbein, and D. B. Smith. 2,638,291, May 12.
Carpet and making same. R. M. Roberts. 2,638,427, May 12.
Carrier : *See*—
Plumb bob carrier.
Carton. E. C. Muinix. 2,638,262, May 12.
Carton with plastic lid, Frozen food. W. J. Poole. 2,638,261, May 12.
Case : *See*—
Travel case.
Casing and vaporproof enclosure for sound transaducers, Vented. R. W. Carlisle. 2,638,508, May 12.
Casing cutter for side windows, Oil well. E. L. Condra. 2,638,322, May 12.
Catalyst preparation. R. Rowan, Jr. 2,638,454, May 12.
Cathode-ray oscillator tube. G. C. Sziklai. 2,638,561, May 12.
Cavity tuner. L. W. Schreiner. 2,638,544, May 12.
Cellulose, Production of. J. E. Jones and R. R. Stott. 2,638,415, May 12.
Chain : *See*—
Quickly-demountable chain.
Chain slide. E. Morehouse. 2,637,884, May 12.
Check float for sewers, Backflow. O. W. McRill. 2,638,178, May 12.
Chemical composition. M. E. Chiddix, S. H. Hesse, and E. J. Seiferle. 2,638,486, May 12.
Chuck mechanism for an oil well drilling apparatus. C. F. Ball and E. M. Luce. 2,638,324, May 12.
Cigarette stub and ash receptacle. I. Lundstrom. 2,638,240, May 12.
Circuit : *See*—
Binary multiplying circuit.
Pulse stretching prevention circuit.
Integrating circuit.
Squelch circuit.
Kinescope residual beam extinction circuit.
Circuit breaker, Multipole. J. G. Jackson. 2,638,510, May 12.
Circuit controller, Electric. P. N. Martin. 2,638,514, May 12.
Circuit for electric translating systems, Control. W. J. Holt, Jr. 2,638,369, May 12.
Circuit for neutralization of frequency divider chains. R. B. Woodbury. 2,638,540, May 12.
Clamp : *See*—
Combination beam and shoring clamp.
Guillotine knife hydraulic clamp.
Clamp and actuating mechanism therefor for setting adhesively bound facings to clutch plates. J. V. Urbano. 2,628,144, May 12.
Clasp, Magnetic jewelry. J. Goodman and A. Goldman. 2,637,887, May 12.
Cleaner with agitator drive disengaging means, Convertible suction. H. B. White. 2,637,874, May 12.
Cleaning device for collapsible tubes, Suction. R. W. Holbrook, 2,637,872, May 12.
Cleaning device, Sewer. G. W. Kiesler, Sr. 2,637,866, May 12.
Clip : *See*—
Connector clip.
Clock, Geographical. M. L. Beyer. 2,637,969, May 12.
Clock, Synchronous motor carryover. C. J. Armstrong. 2,637,968, May 12.
Closure plug. R. J. Scott. 2,638,242, May 12.
Closure remover with slidable toothed wheel. C. L. Cudebec. 2,638,023, May 12.
Clothesline hanger. P. B. Cadman. 2,638,230, May 12.
Clutch : *See*—
Fluid operated multiple disk clutch.
Sprag type clutch.
Coaxial variable attenuator switch. D. E. Rowe. 2,638,503, May 12.
Cockpit sealing system. R. C. Horne and D. F. Stoddard. 2,638,292, May 12.
Coin controlled mechanism, Multiple. W. Wellstein. 2,638,198, May 12.
Collapsible display and lecture stand. J. De Jen. 2,638,300, May 12.
Comb. J. J. Lazicki. 2,638,100, May 12.
Combination beam and shoring clamp. W. H. Clark. 2,638,083, May 12.
Combustion apparatus for an air stream and propulsive system. M. L. Nathan. 8,637,974, May 12.
Compensating wheel mounting. G. L. Larison. 2,638,357, May 12.
Compensator for registering, Adjustable. F. W. Guibert. 2,638,008, May 12.
Compositions comprising blends of rubbery and resinous butadiene-styrene copolymers. A. M. Borders. 2,638,462, May 12.
Compound bed cover. E. Lehigh. 2,637,860, May 12.
Compressor unloading apparatus. A. B. Newton. 2,638,265, May 12.
Computer for evaluating complex integrals. R. M. Redheffer. 2,638,268, May 12.
Concrete form and stake therefor. A. C. Dulleck. 2,637,889, May 12.
Condenser : *See*—
Electrical condenser.
Connector and method, Case hardened cable. M. D. Bergan. 2,638,367, May 12.
Connector clip. W. T. Koehlinger. 2,638,139, May 12.
Construction in upholstered article such as a seat. A. H. Dewees. 2,638,154, May 12.
Contacts for electrical conductors of aluminum or aluminum alloys. E. R. Thomas. 2,638,521, May 12.
Contacting hydrocarbon mixtures with antimony trichloride. A. C. Nixon and C. H. Deal, Jr. 2,638,441, May 12.
Container piercing apparatus. C. Pontillo. 2,637,898, May 12.
Continuous furnace. F. O. Hess. 2,638,333, May 12.
Continuously plating irregularly shaped objects, Method and apparatus for. O. F. Davis and H. G. Bellis. 2,638,423, May 12.
Contouring machine. A. C. Norsworthy, G. L. Meidinger, W. B. Mayo, and M. B. Seyffert. 2,637,950, May 12.
Control device. E. J. Dillman. 2,638,121, May 12.
Control device. H. J. Schoellea. 2,638,015, May 12.
Control device for printing rollers in printing machines. P. Deck. 2,638,048, May 12.
Control for tractor mounted manure loaders. D. K. Struthers and G. W. Schroeder. 2,638,237, May 12.
Control means for flying machines. J. A. M. Lecarme. 2,638,290, May 12.
Control means for tractor-connected implements. R. D. Acton. 2,638,046, May 12.
Control means for use with ejection seat of aircraft. J. Martin. 2,638,294, May 12.
Control mechanism. J. N. Victor. 2,638,164, May 12.
Control mechanism for centrifugal charging valves. B. G. Cox. 2,638,225, May 12.
Control mechanism for hydraulic systems of rotary drilling rigs. R. R. Crookston. 2,638,319, May 12.
Control mechanism for preventing motor vehicles from creeping with provision for maintaining a constant restraining force. I. B. Chandler. 2,638,118, May 12.
Control system for craft operable in space. C. R. Hanna. 2,638,288, May 12.
Control system having a manual transfer. J. G. Horn. 2,638,117, May 12.
Conveyer, Bucket. H. W. Hapman. 2,638,205, May 12.
Conveyer support. L. A. Collis. 2,638,204, May 12.
Conveyer, Vibratory. A. Musschoot, R. F. Beegmann, and C. M. Young, Jr. 2,638,206, May 12.
Conveying apparatus. M. Vogel-Jorgensen. 2,638,385, May 12.
Copolymers of styrene and alpha-methyl styrene and making the same. J. L. Amos and C. T. Miller. 2,638,465-6, May 12.
Copper-containing azo dyestuffs. W. Wehrli. 2,638,468, May 12.
Core barrel, Underwater. C. C. Isbell. 2,638,321, May 12.
Coremaking machine. E. F. Peterson. 2,637,881, May 12.
Cornice and support, Window. E. V. Heitlinger, I. Fields, and A. C. Ray. 2,638,162, May 12.
Corrosion inhibiting vessel construction. L. W. Williams. 2,638,338, May 12.
Cot and crib for automobiles, Combined. H. S. Isaacson. 2,637,857, May 12.
Countercurrent extraction apparatus and process. G. Bottaro. 2,638,409, May 12.
Counting and conveying apparatus, Article. A. A. Mayer. 2,638,203, May 12.
Counting machine, Paper money. T. E. Hayes. 2,638,344, May 12.
Coupling : *See*—
Fifth wheel coupling.
Flexible shaft coupling.
Flexible hose coupling.
Overload release coupling.
Coupling. J. A. Jones. 2,638,365, May 12.

Coupling. R. M. Sherman, A. S. Mulligardt, and C. E. Gray. 2,638,362, May 12.
Cover : *See*—
Box cover.
Compound bed cover.
Crane, Truck. W. J. Perkins. 2,638,232, May 12.
Crankcase and filler device, Engine. J. C. Sionneger. 2,638,076, May 12.
Crate, box, or similar container. W. J. Cella. 2,638,238, May 12.
Crate or container. W. J. Cella. 2,638,239, May 12.
Crystalline β-ionone. T. G. Drunstrup. 2,638,483, May 12.
Culture of phage-sensitive *Streptomyces griseus*. D. Perlman and A. F. Langlykke. 2,638,436, May 12.
Cushion. G. A. Berman. 2,638,156, May 12.
Cutter : *See*—
Flexible conduit cutter.
Cutter spacing checker. G. H. Hedman. 2,637,908, May 12.
Cyclohexanone oxime, Production of. C. Grundmann. 2,638,482, May 12.
Cylinder surfacing tool. H. R. Billeter. 2,637,953, May 12.
Decobalting operation in aldehyde synthesis. J. K. Mertzweiller. 2,638,485, May 12.
Deep well fishing tool. N. W. Alford. 2,638,373, May 12.
Deflector, Combination bug and air. F. Berry. 2,638,376, May 12.
Developer composition for developing an electrostatic latent image. L. E. Walkup and E. N. Wise. 2,638,416, May 12.
Device for flushing drainpipes. J. B. Hord. 2,638,126, May 12.
Diaphragm structure, Molded. D. G. Griswold. 2,638,127, May 12.
Diaphragm unit for loud-speakers. R. D. Charlesworth. 2,638,509, May 12.
Diaphragm valve. R. Fortune. 2,638,306-7, May 12.
Die for tubing, Extrusion. D. H. Clark. 2,638,213, May 12.
Dielectric heating, Method and apparatus for. G. E. Gard. 2,638,529, May 12.
Digging tool. W. R. Proets. 2,638,372, May 12.
Directivity control of X-rays. J. B. and J. A. Bartow and G. D. MacLaughlin, Jr. 2,638,554, May 12.
Discharge outlet for railway cars. G. B. Dorey. 2,638,060, May 12.
Dispenser : *See*—
Refrigerated dispenser.
Dispenser for collapsible tube containers, Hydraulic. W. M. Houldsworth. 2,638,251, May 12.
Dispenser for collapsible tubes, Automatic. W. M. Houldsworth. 2,638,250, May 12.
Dispensing attachment for food container cans. S. M. Briggs. 2,638,240, May 12.
Dispensing machine, Ice cream. A. J. Murphy. 2,638,064, May 12.
Display apparatus. J. Taddonio. 2,637,923, May 12.
Display device. H. H Hntt. 2,637,924, May 12.
Display mount. B. Abbott. 2,638,299, May 12.
Distance and speed indicating system. G. Guanella. 2,638,586, May 12.
Distillation of aviation gasoline components. J. G. Browder. 2,638,412, May 12.
Distillation process for separating butyraldehyde from ethyl acetate. T. Q. Eliot. 2,638,442, May 12.
Distributor. F. Nelson. 2,638,515, May 12.
Door : *See*—
Balanced door.
Door and window, Combined. W. C. Watkins. 2,637,878, May 12.
Door and window, Combined. W. C. Watkins. 2,638,190, May 12.
Door for hopper cars, Individually operated. O. Ingham. 2,638,061, May 12.
Door hanging gauge. M. F. Buttram. 2,637,910, May 12.
Door opening apparatus. C. A. Koenig and A. E. Weigele. 2,638,340, May 12.
Draft and buffer rigging for vehicles. V. S. Danielson and W. D. Wallace. 2,638,353, May 12.
Draft attachment. H. H. Wolfe. 2,638,233, May 12.
Drill and making same, Crown. A. L. van der Heiden. 2,638,021, May 12.
Drilling apparatus. J. F. Joy. 2,638,325, May 12.
Drilling apparatus. R. A. Lebner. 2,638,326, May 12.
Drilling glass sheets, Method and apparatus for. E. H. McLaughlin. 2,638,084, May 12.
Driving mechanism. J. W. King and J. J. McNamee. 2,638,005, May 12.
Drum, Collapsible. M. J. Bebech. 2,638,283, May 12.
Dual-channel counting rate meter. G. K. Jensen and J. E. McGeogh. 2,638,273, May 12.
Dustguard, Snap-on. D. D. Bryant. 2,638,363, May 12.
Dusting machine. J. A. Chater. 2,637,933, May 12.
Dyeing apparatus for textile packages. E. A. Stienen. 2,637,992, May 12.
Dyeing nitrogenous fibers with metallized azo dyes. H. E. Millson and S. Mooradian. 2,638,404, May 12.
Dyeing of nylon with sulfonamide azo dyes. E. Stead and D. Burtonshaw. 2,638,403, May 12.
Edge roll for upholstery and the like. W. S. Cook. 2,638,157, May 12.
Elastic webbing and product thereof, Making. D. G. Posson. 2,638,130, May 12.
Electric fuse holder. C. J. Ward. 2,638,520, May 12.
Electric regulating system utilizing a phase reversing reactive compensator. D. J. Sikorra. 2,638,570, May 12.
Electrical apparatus. W. L. Church. 2,638,496, May 12.
Electrical condenser. A. Liechti. 2,638,494, May 12.
Electrical devices having gas-tight envelopes, High-frequency. A. F. Pearce and N. C. Barford. 2,638,504, May 12.
Electrical resistor element and producing the same. V. O. Allen. 2,638,425, May 12.
Electrical storage of information on gas-filled tubes. F. H. Bray, G. C. Hartley, and D. S. Ridler. 2,638,506, May 12.
Electrocardiograph. J. Lukacs. 2,638,401, May 12.
Electromagnetic-radiating system. H. J. Riblet. 2,638,588, May 12.
Electromagnetic wave controlling apparatus. T. J. Keary. 2,638,547, May 12.
Electromagnetically actuated valve. J. B. Parsons. 2,638,125, May 12.
Engine : *See*—
Two-cycle scavenging internal-combustion engine.
Engine having turbine located in nozzle for driving auxiliaries, Rocket. L. Lawrence, Jr. 2,637,973, May 12.
Engine starting apparatus, Tractor. E. W. Tenbrink. 2,638,002, May 12.
Equalizing and cushioning wheel mounting. G. L. Larison. 2,638,358, May 12.
Eraser, Magnetic record. E. H. Lombardi. 2,638,507, May 12.
Esters of beta-oxy aldehydes, Preparation of. S. A. Ballard and H. P. Geyer. 2,638,479, May 12.
Excavating mechanism for trench digging machines. H. Klancke. 2,637,017, May 12.
Exerciser, Foot. C. E. M. Murphy. 2,638,089, May 12.
Exhaust device for motor bicycles. M. Mennesson. 2,638,174, May 12.
Extensometer for cylindrical members. R. Aubrey, Jr., and V. J. Aubrey. 2,637,907, May 12.
Extractor : *See*—
Staple extractor.
Eye shield for protection against light glare, Adjustable. H. F. George. 2,638,377, May 12.
Fabric. F. G. H. Van Rissegbem. 2,638,129. May 12.
Fabric treating system. S. Cohn and J. G. Walter. 2,637,991, May 12.
Face lifting and hair curling device. E. T. Clark. 2,638,101, May 12.
Fastener : *See*—
Film reel fastener.
Slide fastener.
Sleeve fastener.
Feed attachment for alligator shears. B. Silver. 2,638,341, May 12.
Feed control means for seed dispensers. E. L. Faust. 2,638,246, May 12.
Feed mechanism. M. Fairest. 2,638,201, May 12.
Feed mechanism. J. R. Guess. 2,638,132, May 12.
Feeding drive mechanism for mining machines. A. L. Lee. 2,638,332, May 12.
Fifth wheel coupling. F. A. Beachler. 2,638,352, May 12.
Filling machine. R. W. Garrett. 2,638,259, May 12.
Film reel fastener. E. T. Rahfuse. 2,638,284, May 12.
Filter : *See*—
Air filter.
Fluid filter.
Filter and demulsifier, Fuel. W. A. Carroll. 2,638,221, May 12.
Filter and hose reel, Combined. W. M. Harks. 2,638,229, May 12.
Filter for use in fuel injection pumps. K. Brook and F. M. Evans. 2,638,227, May 12.
Finger cot or protector, Adjustable. W. J. Watermann. 2,637,850, May 12.
Flashlight, Table signaling. G. B. Edwards, Jr. 2,638,583, May 12.
Flexible conduit cutter. L. F. Mallasch. 2,637,903, May 12.
Flexible hose coupling. W. A. Melsom. 2,638,361, May 12.
Flexible shaft coupling. R. Iredell, Jr. 2,637,986, May 12.
Float valve. B. Wagner. 2,638,111, May 12.
Flowmeter for oxygen tanks. R. C. Webster. 2,637,997, May 12.
Fluid drive mechaniam, Variable. V. O. Harta. 2,638,054, May 12.
Fluid filter. G. T. Downey, S. N. Rosengren, and R. E. Forrester. 2,638,228, May 12.
Fluid operated multiple disk clutch. W. G. Wilson. 2,638,196, May 12.
Fluid pressure control device. A. S. Parks. 2,637,945, May 12.
Fluid pressure inflator, Automatic snap-acting. R. L. Sturmer. 2,638,113, May 12.
Fluid pressure regulator. A. S. Parks. 2,637,946, May 12.
Forceps, Surgical. J. L. Marco. 2,638,097, May 12.
Forming composite joint construction. W. M. Patterson. 2,638,429, May 12.
Forming wire and the like, Method and apparatus for. R. P. Gutterman. 2,638,207, May 12.
Four-way change-over valve. F. J. Vargo. 2,638,123, May 12.
Fowl marker. H. W. Dryden. 2,637,922, May 12.
Frame : *See*—
Tubular metal chair frame.
Framing device. J. F. Robs. 2,638,131, May 12.

Frangible connection. E. A. Weinberg. 2,638,368, May 12.
Friction drive and detent, Combined. R. L. Boyles. 2,638,004, May 12.
Friction engaging device and control means therefor. H. E. Carnagua and D. W. Kelbel. 2,638,185, May 12.
Fuel cell supporting enclosure. L. J. Proebstle. 2,638,138, May 12.
Furnace: *See*—
Air heating furnace. Continuous furnace.
Furnace for the heat treatment of materials. J. F. R. Jones. 2,638,334, May 12.
Gain control system, Automatic. H. Ruben. 2,638,338, May 12.
Game net end member. J. L. Stapleton. 2,638,346, May 12.
Garment for supporting sanitary napkins and the like, Nether. M. S. Smythe. 2,638,095, May 12.
Gate: *See*—
Self-opening and closing bump gate.
Gate for storage bins and hoppers, Compression sealing. R. E. Heltzel. 2,638,254, May 12.
Gated oscillator circuit. E. F. MacNichol, Jr. 2,638,548, May 12.
Gauge: *See*—
Bridge - type capacitance liquid level gauge. Door hanging gauge.
Gear abaping machine, Double-acting. E. W. Miller. 2,638,036, May 12.
Generator and multipass superheater with a vapor temperature control system, Vapor. S. S. Waldron. 2,638,079, May 12.
Glass working machine. R. A. Hinkley. 2,637,942, May 12.
Glow discharge treatment of gases, Method and apparatus for. E. P. Schoch. 2,638,443, May 12.
Glue applicator. C. W. Hollar. 2,638,072, May 12.
Grinder, Back-stand. R. W. Reed. 2,637,952, May 12.
Grindings catcher and shield. H. Globe. 2,637,852, May 12.
Ground working machine. C. E., K., and R. C. Ferguson. 2,638,043, May 12.
Guiding device for tool machines. J. Bech. 2,638,387, May 12.
Guillotine knife hydraulic clamp. F. W. Seybold. 2,638,166, May 12.
Gummed tape serving mechanism. R. A. Havemann and D. S. Bruce. 2,638,145, May 12.
Hair-net or the like and making same. H. F. Goldsmith. 2,638,102, May 12.
Hairpin. F. Fuscaldo. 2,638,103, May 12.
Hamper, Clothes. E. W. Seymour. 2,638,399, May 12.
Hand strap tensioning tool. B. T. McFerren and F. S. Seybert. 2,638,314, May 12.
Handle mechanism. G. E. Hanner. 2,638,047, May 12.
Hanger: *See*—
Clothesline hanger.
Hardware removing tool. H. Nelson. 2,638,025, May 12.
Harvester, Beet. J. Morkoski. 2,637,963, May 12.
Harvester having beet cleaning means, Beet. J. W. Orendorff. 2,637,964, May 12.
Headrest. N. B. Pulsifer. 2,638,152, May 12.
Heat deflector for hair driers. D. C. Rochlin and G. M. Creppa. 2,637,853, May 12.
Heat-electrical power conversion through the medium of a charged aerosol. A. M. Marks. 2,638,555, May 12.
Heat reducing attachment for light fixtures, including spaced upper and lower heat restrictors. I. Levy. 2,638,531, May 12.
Heat-treating metals having difficultly reducible oxides. P. H. Brace. 2,638,426, May 12.
Heated base for cooking, Electrically. R. N. Kircher and W. G. Laabs. 2,638,526, May 12.
Heating fluids. W. K. Lewis, Jr. 2,638,328, May 12.
Hermetic seal having floatingly mounted socket contacts. M. N. Glickman, M. Klebanoff, and S. W. Neldorf. 2,638,573, May 12.
High alcohols by improved oxo process, Production of. W. J. Cerveny. 2,638,488, May 12.
High alcohols by improved oxo process, Production of. L. W. Russum and R. J. Hengstebeck. 2,638,487, May 12.
Holder: *See*—
Abrasive ribbon holder. Electric fuse holder.
Article holder. Key holder.
Holder for a telephone and telephone directory. J. E. Whitaker. 2,638,398, May 12.
Hone, Rotatable. H. R. Billeter. 2,637,954, May 12.
Humidifier. P. A. Herr. 2,638,331, May 12.
Humidifier, Electronic space unit. C. V. Runkle. 2,638,528, May 12.
Hydraulic power installation. G. F. Jones. 2,637,971, May 12.
Hydraulic stick control. J. D. McKellar and R. E. Crandall. 2,638,289, May 12.
Hydrocarbon synthesis. C. W. Montgomery and W. A. Horne. 2,638,477, May 12.
Hydrogen ion concentration adjustment. R. Robichaux. 2,638,419, May 12.
Hydrogenated phenolic resin esters. D. H. Wheeler. 2,638,458, May 12.
Hydrogenation of naphthas. E. J. Hoffmann and E. F. Wadley. 2,638,436, May 12.
Ignition apparatus for internal-combustion engines, Electric spark. J. A. Laird. 2,638,563, May 12.
Illuminated sign. W. J. Anderson. 2,637,926, May 12.
Impulse counting tube. J. T. Wallmark. 2,638,541, May 12.
Impulse liquid agitator. D. M. Paxton. 2,638,381, May 12.
Incubator, Infant. R. Livsey. 2,638,087, May 12.
Index regulator set. H. Kocher. 2,637,970, May 12.
Indexing device, Tone arm. E. Schweitzer. 2,638,349, May 12.
Indicating check valve. R. F. Urso, A. W. Gardes, and E. L. Carleton. 2,638,582, May 12.
Indicating maximum and minimum lighting conditions, Means for. R. E. Lovejoy, K. A. Smith, F. A. Harrington, and J. K. Harter. 2,638,580, May 12.
Indicator. L. O. Heck. 2,638,272, May 12.
Inertia control and damping means for galvanometers. G. H. Schmitt. 2,638,492, May 12.
Injection of additives into fluids being dispensed. N. D. Taylor. 2,638,247, May 12.
Insignia placing device for combat jackets. M. F. Thacker. 2,637,909, May 12.
Insoles, Preparing Goodyear welt. A. A. Kats. 2,637,863, May 12.
Instrument, Aircraft. M. R. Ludwig. 2,637,911, May 12.
Instrument, Wind. G. M. Strobino. 2,638,027, May 12.
Insulating panel, Vacuum thermal. J. F. P. Tate. 2,638,187, May 12.
Integrating circuit. J. W. Trischka and H. S. Sack. 2,638,493, May 12.
Intermittent electric light. T. N. Fortney. 2,638,584, May 12.
Jack: *See*—
Trailer attached jack.
Jar capping apparatus. J. Bowen. 2,638,258, May 12.
Jigging apparatus. E. Harvengt. 2,638,214, May 12.
Joint: *See*—
Structural joint.
Key holder. J. R. Harrison, Jr. and W. Dian. 2,637,994, May 12.
Kinescope residual beam extinction circuit. R. J. Schippet and R. A. Stacy. 2,638,562, May 12.
Knife, Grapefruit. D. S. Conklin. 2,637,899, May 12.
Knife having a replaceable blade. H. A. Springer. 2,637,904, May 12.
Knitting machine. M. B. Strlar. 2,637,988, May 12.
Knockdown table. M. T. Ulrich. 2,638,394, May 12.
Label package and dispenser. W. F. Spurr. 2,638,211, May 12.
Ladder, Flexible ship. T. Skolmen, G. O. Roberts, and J. G. Euson. 2,638,260, May 12.
Ladle tipping mechanism. E. F. Schulse. 2,637,883, May 12.
Lamp: *See*—
Nursery lamp.
Lamp and gas stove, Combination mantle. N. Guedon. 2,638,085, May 12.
Lamp having an illuminated base, stand. J. O. Zobian. 2,638,533, May 12.
Lamp holder mounted on continuous conductor. J. F. O'Brien, J. B. Cataldo, and K. E. Vroom. 2,638,576, May 12.
Latch: *See*—
Stake rack latch.
Latch and lock, Combined closure. J. F. Price. 2,638,370, May 12.
Latching and releasing means. N. R. Sklar. 2,637,931, May 12.
Latching device for hopper cars. A. E. Zimmer. 2,638,062, May 12.
Lens for cathode-ray tubes, Electrostatic. A. D. Giacchetti. 2,638,559, May 12.
Lens system, Unitary catadioptric objective. D. R. and W. M. Buchele. 2,638,033, May 12.
Lever, Brake. E. G. Sprung. 2,638,017, May 12.
Lifting mechanism for dump trucks, Mechanical. R. C. Best. 2,638,380, May 12.
Light: *See*—
Intermittent electric light.
Lighter and case, Cigarette. A. C. Campbell. 2,638,209, May 12.
Lighter, Gas fueled cigar. A. H. Aronson. 2,637,990, May 12.
Lighter, Oven. R. A. Biggs. 2,637,989, May 12.
Liquid knockout apparatus. A. S. Parks. 2,638,223, May 12.
Liquid level regulator. H. Hillier. 2,638,078, May 12.
Lithographic printing plates, Producing. W. J. Hausman. 2,637,929, May 12.
Loading apparatus. S. M. Nampa. 2,638,318, May 12.
Loading machine. J. D. Rnssell. 2,638,200, May 12.
Loading mechanism for offset tractors. S. S. Pokorny. 2,638,235, May 12.
Locator for airplanes, Straight course. O. S. Field. 2,638,590, May 12.
Locomotive, Electric. L. Heidmann. 2,638,056, May 12.
Locomotive rail vehicle. G. H. Roesch. 2,638,057, May 12.
Loud-speaker, Duplex. J. Braml. 2,638,510, May 12.
Lubricant for pneumatic tools and the like. J. I. Wasson. 2,638,446, May 12.
Lubricant, Gear. F. P. Otto, L. W. Manley, and R. V. White. 2,638,447, May 12.
Lubricator for pneumatic tools. N. P. Boretti. 2,638,182, May 12.

Lumber receiving table for double-ended tenoner. H. H. Dedo. 2,638,135, May 12.
Luminous sign. P. A. Gadomski. 2,637,927, May 12.
Machine for coating confections. E. J. Otken. 2,638,071, May 12.
Machine for delinking and segregating cartridges. H. Boehmer. 2,638,029, May 12.
Machine for marking tags of different styles. A. K. Marsh and J. Weimont. 2,638,038, May 12.
Magnetic power transmission. D. R. Rankin. 2,638,558, May 12.
Magnetostriction apparatus. E. J. Cronin. 2,638,567, May 12.
Magnetron, Tunable. J. S. Donal, Jr., L. P. Smith, and B. B. Brown. 2,638,563, May 12.
Maleic acid manufacture. J. E. Nachod, Jr. 2,638,481, May 12.
Manganese alloy coating on ferrous base and preparation. J. S. Nachtman. 2,637,896, May 12.
Marine drilling. J. R. Evans, L. E. Elkins, and L. H. Klinzing. 2,637,978, May 12.
Marine seismic surveying. W. W. Doolittle. 2,638,176, May 12.
Marine wave meter. A. A. Klebba. 2,637,999, May 12.
Massage and heat applicator. C. C. Curtis. 2,638,527, May 12.
Massaging device. J. F. Nantz. 2,638,090, May 12.
Matches with ejection-type ignition means therefor, Book. M. H. Olsen. 2,638,208, May 12.
Material separating apparatus. E. V. Gordon, R. D. Simpson, and F. Cardosa. 2,638,219, May 12.
Mattress construction, Spring. N. C. Goldberg. 2,637,858, May 12.
Measuring device, Underwater. H. M. Zenor. 2,638,001, May 12.
Measuring machine, Dough. W. de Ridder. 2,638,066, May 12.
Mechanism for making and depositing balls of ice cream or the like. R. G. Tarr. 2,638,065, May 12.
Mechanism for sensing statistical record cards. C. T. A. Jones. 2,638,270, May 12.
Mechanism for separating air-borne materials. E. V. Gordon. 2,638,181, May 12.
Metal facing on hardenable material, Producing a. J. E. Gordon and C. G. Evans. 2,638,428, May 12.
Metal to plastic bonding. L. C. Rubin. 2,638,523, May 12.
Metallic and clay articles, Making. W. S. Ramsay. 2,637,890, May 12.
Meter: *See*—
Dual-channel counting rate meter. Marine wave meter.
Radiation exposure meter.
Methine dyestuffs. H. D. Edwards. 2,638,473, May 12.
Microcoulometer. G. K. Turner. 2,638,491, May 12.
Milk product containing milk fat, and producing same. C. A. Kempf, J. S. Neidlinger, A. P. Stewart, Jr., and P. F. Sharp. 2,638,418, May 12.
Mineral oil. J. J. Wehrle. 2,638,448, May 12.
Mirror device, Electrically controlled tiltable reflecting. W. D. Macgeorge and C. E. Roessler, Jr. 2,638,035, May 12.
Mixing machine. E. Zahn. 2,638,252, May 12.
Monohydroxythiophene, Preparing. K. L. Kreus and C. D. Hurd. 2,638,474, May 12.
Mop and brush, Combination. J. Kalinowski. 2,637,867, May 12.
Motor device for hydraulic brakes, Actuator. C. R. Myers, L. F. Dasse, and J. Bassett. 2,637,976, May 12.
Motor for dry shavers, Rotary fluid. L. C. Merriman. 2,638,310, May 12.
Motor speed control. C. L. Calosi. 2,638,568, May 12.
Mounting: *See*—
Compensating wheel mounting. Railway car diaphragm face plate mounting.
Equalizing and cushioning wheel mounting.
Multiport valve. W. A. Ray. 2,637,985, May 12.
Nail inserter, Intramedullary. J. F. Dorr. 2,638,092, May 12.
Neutron detector. O. G. Landsverk and L. E. Rasmussen. 2,638,553, May 12.
Nipple and shield therefor, Nursing bottle. J. Kronish. 2,638,094, May 12.
Noise limiter and silencer, Biased series-type. E. Toth. 2,638,540, May 12.
Noise suppressor, Electronic. S. B. Coleman. 2,638,501, May 12.
Nursery lamp. M. Duda. 2,638,530, May 12.
Nursing bottle support. W. Battle. 2,638,296, May 12.
Octenone, Preparation of an. W. Kimel. 2,638,484, May 12.
Odometer, Hub. H. G. Engler. 2,638,274, May 12.
1 - benzyl - 5,6,7,8 - tetrahydroisoquinoline and derivatives thereof. R. Grewe. 2,638,472, May 12.
Open front refrigerated cabinet. P. H. Brinkoeter. 2,637,982, May 12.
Opener, Can. A. E. Nelson. 2,637,897, May 12.
Opener for cartons, Flap. A. W. and E. E. Lippmann. 2,637,958, May 12.
Operating mechanism for high voltage electric circuit interrupting devices. S. I. Lindell. 2,638,003, May 12.
Optical objective, Three convergent component. W. M. Wreathall. 2,638,034, May 12.
Organic nitrogen-containing compounds, Manufacture of. I. Hellbron, A. H. Cook, and A. L. Levy. 2,638,467, May 12.
Organization for feeding heavy sheets, plates, and the like onto a conveyer. W. M. Corbitt and E. C. Wenning. 2,638,234, May 12.
Oscillator, Variable frequency. F. A. Hester. 2,638,350, May 12.
Overload release coupling. C. Hill and C. K. Johns. 2,637,987, May 12.
Package of flat articles with adjustable filler pad. F. O. Robertson. 2,638,212, May 12.
Packing stand assembly. G. C. Paxton. 2,638,216, May 12.
Pad: *See*—
Shoulder pad. Shoulder strap pad.
Paint box and easel, Combination. R. T. Wykoff. 2,638,397, May 12.
Panel for sofa berths, Retractable. E. E. Woller. 2,637,856, May 12.
Panel mounting assembly. G. Menosky. 2,638,191, May 12.
Paper and method and apparatus for the manufacture thereof, Reinforced. E. A. Rounsevelle and R. G. Estee. 2,638,146, May 12.
Paper burster gun. H. L. Langos. 2,637,941, May 12.
Para-nitro-phenyl-arsonic acid blackhead control composition. N. F. Morehouse and W. C. McGuire. 2,638,432, May 12.
Payroll board. L. K. Straus. 2,638,360, May 12.
Peeling machine, Rotary steam. W. de Back. 2,638,137, May 12.
Pencil with spiral feeding means, Mechanical. H. S. Hasselquist. 2,638,074, May 12.
Pentadiene polymers as elastomer additives. W. M. St. John, Jr. 2,638,461, May 12.
Petroleum wax compositions containing a small amount of a polyethylene, Preparing. J. R. Bowman, W. P. Ridenour, and J. H. Whittaker. 2,638,459, May 12.
Pharmaceutical preparation for peptic ulcers. J. T. George. 2,638,433, May 12.
Phosphorus-containing derivatives of M-amino-phenols. A. L. Morrison and F. R. Atherton. 2,638,478, May 12.
Photoelectric engraving, Process and apparatus for. C. E. Ernst. 2,638,500, May 12.
Photographic films having a stripping layer composed of a mixture of ethyl cellulose and cellulose nitrate. C. F. A. White and J. R. Hill. 2,638,417, May 12.
Photographic unit having synchronized shutter and light source, Automatic. G. Bucky. 2,638,039, May 12.
Pillowcase. H. A. Kethledge. 2,637,861, May 12.
Pilot regulator. A. S. Parks. 2,637,947, May 12.
Pipe aligning device. H. A. Mearns. 2,638,069, May 12.
Pipe cutter or reamer for use on crooked pipe. E. L. Condra. 2,638,320, May 12.
Piston. J. P. Butterfield. 2,638,302, May 12.
Piston and ring. J. E. Neeme. 2,638,390, May 12.
Piston cooling for internal-combustion engines. G. Pielstick. 2,638,080, May 12.
Piston for internal-combustion engines. W. Henseler. 2,638,391, May 12.
Piston ring. H. P. Phillips. 2,638,393, May 12.
Pitch propeller, Automatic variable. F. C. Foss. 2,638,171, May 12.
Plastic compound containing synthetic rubber and anthracite coal. E. R. Laning. 2,638,456, May 12.
Plow and soil pulverizer, Combined. C. E., A. H., and A. K. Baratow. 2,638,042, May 12.
Plug: *See*—
Closure plug. Spark plug.
Plug and socket having a spring-pressed latch. C. D. H. Webb. 2,638,574, May 12.
Plumb bob carrier. E. S. Williams. 2,637,913, May 12.
Pneumatically controlled hydraulic prop. J. M. Towler. 2,638,075, May 12.
Pole, Clothesline. N. and A. C. Tardie. 2,638,231, May 12.
Polymerization of vinylidene compounds in the presence of a catalyst composition comprising dimethylhalophenylhydroperoxymethane. W. B. Reynolds, J. E. Wicklatz, and T. J. Kennedy. 2,638,464, May 12.
Polymers from pyrrolidone. W. O. Ney, Jr., W. R. Nummy, and C. E. Barnes. 2,638,463, May 12.
Portable camera support. T. Horydczak. 2,638,041, May 12.
Post-mix, multiple outlet gas burner. H. E. Winkelman and R. E. Hinger. 2,638,159, May 12.
Pot type fuel oil burner. J. W. Thomson. 2,638,160, May 12.
Power-lift attachment for implements. W. G. Toland. 2,638,044, May 12.
Power unit for a well pipe slip assembly. G. E. Mullinix. 2,638,316, May 12.
Pressure regulating valve. G. A. Wahlmark. 2,638,109, May 12.
Preventing the occurrence of pin holes in thin, microporous hard rubber separators. G. L. Cory. 2,637,876, May 12.
Primary cell. S. Ruben. 2,638,489, May 12.
Printing rolls, Making. W. H. King. 2,638,050, May 12.
Processing metal powders. F. J. Hanagrig. 2,638,424, May 12.
Projectile, Subcaliber. C. L. Critchfield. 2,638,051, May 12.
Projection viewing and calculating device. C. H. Stockwell. 2,638,031, May 12.
Projector, Puppet golf ball. H. Arenson and J. F. Witherspoon. 2,638,348, May 12.

Propeller deicing mechanism. J. H. Sheets. 2,638,295, May 12.
Propeller or rotor, Aircraft. R. H. Prewitt. 2,638,170, May 12.
Protector for oil well equipment. R. L. Crain. 2,638,169, May 12.
Protector for trousers. A. Pagano. 2,637,916, May 12.
Pulley assembly, Rope locking. R. Sturdivant. 2,638,184, May 12.
Pulse modulation system. G. J. E. Goubau. 2,638,572, May 12.
Pulse stretching prevention circuit. F. P. Zaffarano. 2,638,511, May 12.
Pulverulent material classifying means. G. Niemitz. 2,638,217, May 12.
Pump control, Fluid operated. C. J. Coberly. 2,638,115, May 12.
Pump for internal-combustion engines, Liquid fuel injection. W. E. W. Nicolls. 2,638,053, May 12.
Purification of crude aliphatic alcohols. W. M. Drout, Jr., C. S. Carlson, H. W. Scheeline, and P. V. Smith, Jr. 2,638,440, May 12.
Push-pull control valve. N. C. Williams and R. W. Fishwood. 2,638,108, May 12.
Quench block. J. Harasty. 2,638,337, May 12.
Quickly-demountable chain. W. Beveridge. 2,638,009, May 12.
Racing game, Linear motor. E. Maggi. 2,638,347, May 12.
Radiation exposure meter. O. G. Landsverk and L. E. Rasmussen. 2,638,551–2, May 12.
Radio-locator system. W. F. Priest. 2,638,585, May 12.
Rail fastening. K. Stamm. 2,638,276, May 12.
Railway car diaphragm face plate mounting. J. F. Monger. 2,638,055, May 12.
Rake, Side-delivery. J. M. McCandless and L. Bentz. 2,637,967, May 12.
Razor blade, Bias safety. R. O. and O. E. Williams. 2,637,905, May 12.
Razor blade cartridge unit. M. C. Thompson. 2,637,900, May 12.
Reaction products of fatty acids, dialkanolamines, and alkenyl succinic acid anhydrides. R. V. White and H. D. Norris. 2,638,449, May 12.
Reaction products of N-alkylated polyalkylenepolyamines and alkenyl succinic acid anhydrides. R. V. White and P. S. Landis. 2,638,450, May 12.
Realigning method and apparatus. F. R. Painter. 2,637,943, May 12.
Reamer. J. C. Baldwin. 2,638,327, May 12.
Reamer, Expanding. R. Fishwick. 2,638,020, May 12.
Receptacle for electric shavers, Beard clipping. S. Kahn and C. D. Mabry, Jr. 2,637,901, May 12.
Recovering metals by gaseous reduction. W. K. Lewis. 2,638,414, May 12.
Refacing tool. G. J. Smoleny. 2,637,894, May 12.
Refining oils with "versene." E. M. James. 2,638,476, May 12.
Reflector mounting structure. G. A. Haraden. 2,638,534, May 12.
Refrigerated dispenser. C. C. Smith. 2,638,395, May 12.
Refrigerating apparatus with hot gas defrosting means. H. Malkoff and O. J. Nussbaum. 2,637,983, May 12.
Refrigeration machine. C. D. Russell. 2,637,981, May 12.
Refrigerator, Round. L. E. Spotts. 2,638,400, May 12.
Register control. K. A. Spearing. 2,638,158, May 12.
Regulator: *See*—
Fluid pressure regulator. Pilot regulator.
Liquid level regulator.
Regulator for reels, Torque. F. L. MacQuarrie and F. S. Woods. 2,638,285, May 12.
Reloading clip for revolvers. L. S. Mason. 2,637,930, May 12.
Remote control for transmissions. E. C. Dodt. 2,638,013, May 12.
Removing cores, Means and method of. T. C. Bannon. 2,638,323, May 12.
Repeater apparatus for communication and signaling systems. A. R. Doucette. 2,638,513, May 12.
Resolving emulsions using azolidine salts of alkylated naphthalene sulfonic acids. W. B. Hughes. 2,638,431, May 12.
Restraining and releasing device for pilots. F. J. Lindstrom. 2,638,293, May 12.
Ring: *See*—
Piston ring.
Roller file. C. L. Beaudrot, Jr. 2,638,280, May 12.
Roller for labeling machine pickers, Adhesive supply. S. T. Carter. 2,638,073, May 12.
Roller leveler. F. K. Maust. 2,638,143, May 12.
Roundabout, Occupant propelled. B. E. Norvell. 2,638,345, May 12.
Rule attachment, Adjustable miter. W. T. Kearney. 2,638,134, May 12.
Sac filling machine. M. Knobel. 2,638,257, May 12.
Salt attachment for icing machines. H. O. McLain. 2,637,980, May 12.
Sand trap cleanout. F. E. Saari and G. V. W. Roth. 2,638,389, May 12.
Saw sharpener. B. E. Davis and H. Mabe. 2,638,018, May 12.
Scale for lift trucks. C. L. Wetsel. 2,638,336, May 12.
Screening and filtering apparatus. B. Cowan and A. Cunningham. 2,638,226, May 12.
Scribing and compass unit, Combination. L. J. Glossl. 2,637,906, May 12.
Seal for well tubing. E. N. Jones. 2,638,167, May 12.
Sealing means. R. J. Nebel. 2,638,147, May 12.
Sealing means for cooperatively assembled parts of valve or comparable assemblies. R. H. Davies. 2,638,243, May 12.
Seat for vehicles such as aircraft. G. K. Jones. 2,638,151, May 12.
Seat structure, Adjustable. V. G. May. 2,638,150, May 12.
Seat suspension. H. H. Fink. 2,638,148, May 12.
Sectional collapsible pressing board. J. S. Buchanan. 2,637,919, May 12.
Sedan having versatile structure. C. D. Willson. 2,638,374, May 12.
Seed broadcasting implement. L. F. and J. R. Stornetta, and J. M. Armstrong. 2,683,351, May 12.
Seeder and fertilizer, Tractor mounted. G. B. Lyerly. 2,638,350, May 12.
Seismic prospecting. B. D. Lee. 2,638,402, May 12.
Seismometer. R. G. Piety. 2,638,578, May 12.
Self-opening and closing bump gate. V. A. Lein. 2,637,921, May 12.
Self-orienting three-axis reference apparatus. A. L. Rawlings. 2,637,914, May 12.
Separating device. K. Heindlhofer. 2,638,177, May 12.
Separating dispersed matter from fluid masses. R. D. Simpson, E. V. Gordon, F. Cardoza, and J. H. Jacobs. 2,638,218, May 12.
Sewage digester. S. E. Kappe. 2,638,444, May 12.
Sewing machine attachment. R. T. Cosart, Jr. 2,638,067, May 12.
Sewing machine feed, Adjustable. J. Gottlieb, C. Woessner, and L. Eickemeyer. 2,638,068, May 12.
Shaving apparatus. J. A. G. Malmberg. 2,637,902, May 12.
Sheet edging apparatus. G. White. 2,637,951, May 12.
Sheet feeding and registering mechanism. H. J. Luehrs. 2,638,342–43, May 12.
Sheet metal bending brake. R. W. Skinner and A. G. Frampton. 2,638,141, May 12.
Shift register. H. M. Fleming, Jr. 2,638,542, May 12.
Shock mount. E. Pietz. 2,638,303, May 12.
Short core shaft. B. E. Prevost. 2,638,282, May 12.
Shoulder pad. W. Riedler and B. Mechur. 2,637,854, May 12.
Shoulder strap pad. L. J. Nelson. 2,637,849, May 12.
Shower attachment, Portable. R. Evans and J. L. Essary. 2,638,382, May 12.
Side mount pillow block bearing. R. L. Whiteley and H. B. Hostetler. 2,638,389, May 12.
Sign: *See*—
Illuminated sign. Luminous sign.
Sign. C. Walton. 2,637,925, May 12.
Signal control system embodying polar biased code following and polarized line relays, Four-indication. T. W. Tizzard, Jr. 2,638,536, May 12.
Signal device for filters. H. E. Marvel. 2,638,581, May 12.
Sleeve fastener. J. P. Francesco. 2,638,028, May 12.
Slide fastener. J. Hora. 2,637,886, May 12.
Socket mount, Apertured panel. R. D. Winkelmeyer and V. R. Herterick. 2,638,575, May 12.
Sole composition, Shoe. G. H. Gates. 2,638,457, May 12.
Solenoid delay line. J. R. Pierce. 2,638,502, May 12.
Sound producing device for signaling purposes. R. E. Swanson. 2,638,070, May 12.
Spark plug. H. Lewis. 2,638,083, May 12.
Spectacle frame and light, Combined. T. L. Brady. 2,638,532, May 12.
Speed change and control mechanism. E. A. Feustel. 2,638,006, May 12.
Speed-responsive device. G. T. Randol. 2,638,518, May 12.
Sprag type clutch. M. Tibbetts. 2,638,195, May 12.
Spray cooled product and process. J. Ross. 2,638,475, May 12.
Sprayer tank. L. L. Fletcher. 2,638,255, May 12.
Spring assembly. J. Hess. 2,637,875, May 12.
Spring structure. W. A. Clark. 2,638,153, May 12.
Spring structure, Cushion. W. A. Clark. 2,638,155, May 12.
Sprocket fastening means. H. F. Heidegger. 2,638,366, May 12.
Squelch circuit. G. K. Jensen and J. Benveniste. 2,638,543, May 12.
Stabilization of filament supply voltage. H. L. Schultz. 2,638,571, May 12.
Stabilizing means for cold cathode tube flip-flop circuits. C. R. Williams and G. E. Hagen. 2,638,564, May 12.
Stake rack latch. G. R. Jewell. 2,638,375, May 12.
Stamp, Hand. P. A. MacPhee and G. T. Brown, Jr. 2,638,049, May 12.
Stand: *See*—
Collapsible display and lecture stand.
Staple extractor. H. W. Marano. 2,638,313, May 12.
Starting system for free-piston units. D. E. Meitzler. 2,638,266, May 12.
Steering assembly for tandem wheel vehicles. D. H. Spangler. 2,638,355, May 12.
Steering mechanism for motor vehicles. R. A. Railton. 2,638,014, May 12.

Stick and brush combination, Fabric cleaning. W. F. Hamilton. 2,637,868, May 12.
Stop device. I. H. Small. 2,638,197, May 12.
Strainer attachment for dishwashers, Soil. G. H. Wotring. 2,638,104, May 12.
Strake device, Retractable. L. Colin. 2,638,384, May 12.
Structural joint. C. O. Larson. 2,638,386, May 12.
Stuffing box for dough mixers. C. R. Rechtin. 2,638,364, May 12.
Suction regulating valve. W. D. Teague, Jr. 2,638,107, May 12.
Sulfonated high molecular weight styrene-olefin copolymers. D. W. Young, W. H. Smyers, and W. J. Sparks. 2,638,445, May 12.
Support: *See*—
Conveyor support. Portable camera support.
Nursing bottle support. Transit support.
Support for containers. H. J. Larson and G. B. Devereaux. 2,638,354, May 12.
Surcingle handling apparatus. R. E. Reeve. 2,637,962, May 12.
Surface-covering articles, Making. Z. W. Mann. 2,638,430, May 12.
Surface miller. O. L. Miller. 2,638,136, May 12.
Surface treating apparatus. L. H. Bishop and J. S. Finn. 2,637,948, May 12.
Surfacing glass, Process and machine for. L. L. C. De Bay. 2,637,949, May 12.
Switch: *See*—
Accelerator control switch.
Coaxial variable attenuator switch.
Switch controlling apparatus, Railway. H. C. Van Tassel. 2,638,537, May 12.
Switching device, Vehicle. L. B. Forman. 2,638,516, May 12.
Switching system, Pulse electronic. S. Van Mierlo and B. Derjavitch. 2,638,505, May 12.
Synchronizing system for electronic tubes. R. C. Mierendorf. 2,638,566, May 12.
Synthesis gas with a 1 : 1 ratio H_2 to CO, Making. B. J. Mayland and S. G. Stewart. 2,638,452, May 12.
Synthesizing large single crystals of quartz. I. I. Friedman and O. F. Tuttle. 2,638,408, May 12.
System of radio aids for aerial navigation in the vicinity of airports. R. G. Lloyd and W. H. Young. 2,638,589, May 12.
Table: *See*—
Knockdown table.
Tank: *See*—
Sprayer tank.
Tank and valve structure, Dispensing. S. D. Pool and W. F. Collins. 2,637,979, May 12.
Tank stripper, Adjustable. C. D. Roach. 2,638,222, May 12.
Tapered conductor. T. B. Gibbs, S. Dinerstein, and G. W. Gilman. 2,638,522, May 12.
Teakettle having toggle acting spout cap. F. W. Mueller. 2,638,253, May 12.
Tear strip remover with overlapping edges, Tubular. J. C. Baisch. 2,638,244, May 12.
Telefacsimile recording and duplicating paper and making same. A. G. Cooley and H. R. Dalton. 2,638,422, May 12.
Telegraph call transferring system. W. B. Martin. 2,638,497, May 12.
Telescope having prism movable for focusing. J. D. Kieffer, III, and W. M. Strom. 2,638,032, May 12.
Television receiving. H. de France and R. Bocquel. 2,638,498, May 12.
Television system, Color. J. Evans. 2,638,400, May 12.
Temporary securing device. E. F. Kennedy. 2,638,371, May 12.
Tensioning and anchoring wire bundles for prestressed concrete structural elements. A. E. A. Hiaton. 2,637,895, May 12.
Testing apparatus. R. A. Crumbliss. 2,638,495, May 12.
Testing paperboard, Method and apparatus for. R. C. McKee and G. R. Sears. 2,637,996, May 12.
Tetrachloroglycoluril derivatives as chlorine liberators in ointments, H. B. Adkins. 2,638,434, May 12.
Thienyl and pyridyl esters. A. Burger. 2,638,471, May 12.
Throttle control means. J. E. Dillard. 2,638,082, May 12.
Tile, Surface-covering. Z. W. Mann. 2,637,995, May 12.
Tonneau cover for motor vehicles. P. B. Molinaro. 2,638,378, May 12.
Tool: *See*—
Cylinder surfacing tool. Hardware removing tool.
Deep well fishing tool. Refacing tool.
Digging tool. Tube cleaning tool.
Hand strap tensioning tool.
Tool and level, Spirit plumbing. W. G. Baldwin. 2,637,912, May 12.
Toothbrush construction. M. H. Cohen. 2,637,870, May 12.
Tooth form for flexible couplings. J. C. Smith. 2,638,011, May 12.
Toy fence and elements. J. Manoil. 2,637,934, May 12.
Toy, Flapping wing. W. E. Polk. 2,637,935, May 12.
Toy, Flapping wing. W. E. Polk. 2,637,937–9, May 12.
Traction belt, Pelvic. S. Varco. 2,638,001, May 12.
Traction device. W. P. Paulsen. 2,638,140, May 12.
Tractor support for mowers. C. B. Richey. 2,637,966, May 12.
Traffic control system of the normally deenergized reversible coded track circuit type, Centralized. H. S. Young. 2,638,535, May 12.
Trailer attached jack. C. J. Wagner. 2,638,315, May 12.
Transducer. W. T. Harris. 2,638,577, May 12.
Transit support. C. H. Reed. 2,638,302, May 12.
Transmission control. O. W. Schotz. 2,638,193, May 12.
Transmission unit. C. B. De Vlieg. 2,638,010, May 12.
Trap: *See*—
Animal trap.
Travel case. W. M. Tuller. 2,638,192, May 12.
Treating hydrocarbons, Method and apparatus for. E. G. Ragatz. 2,638,437, May 12.
Treatment of petroleum distillates. J. G. Browder and A. R. Smith. 2,638,439, May 12.
Trip mechanism for automatic cutoff valves, Fusible. H. H. Shiels. 2,638,106, May 12.
Tripod head. J. T. Peterson. 2,638,298, May 12.
Trough for resawing machines, Line up. W. A. Trapeur. 2,638,133, May 12.
Truck, Hand. J. H. Prowinsky and D. J. Carlson. 2,638,236, May 12.
Truck, Rail car. A. O. Williams. 2,638,058, May 12.
Truck, Snubbed. R. B. Cottrell. 2,638,059, May 12.
Tube: *See*—
Cathode-ray oscillator tube. Impulse counting tube.
Tube cleaning tool. D. G. Posson. 2,637,865, May 12.
Tubular metal chair frame. C. J. Janosek. 2,638,149, May 12.
Turbine. D. J. Bloomberg. 2,637,984, May 12.
Turbine. A. Diethelm. 2,638,311, May 12.
Turbine wheel. E. Jedrzykowski. 2,638,312, May 12.
Two-cycle scavenging internal-combustion engine. E. W. Spannhake. 2,638,081, May 12.
2-norcamphanemethanol and 2-norcamphanemethoxyethanol applied to plants to inhibit fungous growths. J. B. Harry. 2,638,431, May 12.
Typewriter, Power operated. F. W. Schremp. 2,638,199, May 12.
Underwater screening. E. O. Schneider. 2,638,220, May 12.
Unloader for fluid compressors. L. H. Browne. 2,638,264, May 12.
Uranium tetrafluoride, Production of. A. D. Tevebaugh and F. Vaslow. 2,638,406, May 12.
Utilizer for garbage disposals, Waste water. M. L. Stafford. 2,637,855, May 12.
Vacuum die-casting. R. F. Plott. 2,637,882, May 12.
Vaginal insert. G. Kulick. 2,638,093, May 12.
Valve: *See*—
Antifreezing and nonpolluting water valve. Four-way changeover valve.
Diaphragm valve. Indicating check valve.
Electromagnetically actuated valve. Multiport valve.
Float valve. Pressure regulating valve.
Push-pull control valve.
Suction regulating valve.
Valve. W. D. Ludwig. 2,638,122, May 12.
Valve. E. K. Nickerson. 2,638,124, May 12.
Valve and pump for metering out material for capsulating machines and the like. R. E. Moule. 2,638,052, May 12.
Valve assembly. L. E. Brown. 2,638,110, May 12.
Valve control apparatus. A. S. Parks. 2,638,110, May 12.
Valve for air brake systems and the like, Safety. E. L. Kell. 2,638,308, May 12.
Valve member, Coated. R. Fortune. 2,638,309, May 12.
Vaned member, Making a. D. V. Stellin. 2,638,019, May 12.
Vehicle: *See*—
Locomotive rail vehicle.
Vehicle mover. R. S. Towse. 2,638,317, May 12.
Vending machine, Sandwich. C. Gabrielsen. 2,638,306, May 12.
Warning apparatus for airplanes, Stall. H. E. Dyche, Jr., and G. P. Cardwell. 2,638,579, May 12.
Wax composition. W. L. Thompson and J. V. Lawson. 2,638,411, May 12.
Web accelerating mechanism for web splicing devices. P. L. Tollison. 2,638,281, May 12.
Web tensioning device. P. A. Sperry. 2,637,891, May 12.
Weighing device. H. F. Coffey. 2,638,304, May 12.
Weight proportioning means and method. R. L. Miller. 2,638,305, May 12.
Welding process and apparatus. A. R. Meyer. 2,638,524, May 12.
Welding stud and arc welding. A. M. Candy. 2,638,525, May 12.
Well packer. A. S. Parks. 2,638,168, May 12.
Well perforator. L. D. Barber. 2,638,165, May 12.
Wheel: *See*—
Buffing wheel. Turbine wheel
Wheelbarrow, Power driven. G. Borchin and E. A. Smith. 2,638,172, May 12.
Wheel drive with lubricating means, Dual. E. J. Dunham. 2,638,173, May 12.
Wheel hub with built-in dynamos, especially for bicycles and motor bicycles. C. L. Longert. 2,638,557, May 12.
Windbreak and livestock shade. J. C. Corn. 2,638,188, May 12.

Winder for yarn packages, Automatic tail. A. E. Winslow. 2,638,279, May 12.

Winding machine, Watch. J. H. Gotter. 2,638,024, May 12.

Winding machine with minimum turn spacing device. B. B. Scott. 2,638,278, May 12.

Window for alpha particle counters, Improved. C. J. Borkowski. 2,638,560, May 12.

Window for convertible automobile tops, Rear. F. S. Spring. 2,638,379, May 12.

Window, Storm. E. C. Mueller. 2,637,879, May 12.

Window strip, Self-sealing. H. B. Beck. 2,637,880, May 12.

Window structure, Steel. W. C. Watkins. 2,638,189, May 12.

Wire for stationary wire Wilton looms, Laminated pile. R. W. Peacock. 2,638,128, May 12.

Wrapping apparatus, Package. J. M. Sutton. 2,637,961, May 12.

Wrapping device, Coin. R. F. Powers. 2,637,960, May 12.

Wrench for use with an airplane propeller. J. F. Sweeney, E. T. Ahle, and I. A. MacKay. 2,638,026, May 12.

CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number.

2— 2: 2,637,849
21: 2,637,850
42: 2,637,851
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Classification of Designs

D1— 8: Des. 169,542
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D80— 9: Des. 169,552

D81—10: Des. 169,528
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D90—20: Des. 169,567

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

United States Court of Appeals
District of Columbia Circuit

NEW WRINKLE, INC., AND WILLIAM A. WALDIE

v.

ROBERT C. WATSON, COMMISSIONER OF PATENTS

No. 11403. Decided March 19, 1953

[— F.2d —; 96 USPQ 438]

1. PATENTABILITY—PATENT ACT OF 1952—INVENTION—MORE THAN SLIGHT DIFFERENCE IN RESULT AND PROCEDURE REQUIRED.

Held that, although the resulting wrinkle pattern differs from patterns known to the art, this difference and the slight variations in procedure are not sufficient to give rise to patentable invention and this conclusion would be the same under any plausible view of the criteria of invention laid down by the new patent act.

2. SAME—PARTICULAR SUBJECT MATTER—VARNISH AND METHOD OF MAKING.

Certain claims to a wrinkle varnish composition and method of making *Held* properly rejected as not rising to invention as defined by the patent act of 1952.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

H. A. Toulmin, Jr. (*F. E. Drummond* and *Herbert H. Brown* of counsel) for appellants.

E. L. Reynolds (*S. W. Cochran* of counsel) for appellee.

Before PROCTOR, BAZELON, and FAHY, *Circuit Judges*

BAZELON, *Circuit Judge*:

The District Court dismissed this § 4915 suit for issuance of a patent upon a determination that the claims did not disclose invention.[1] The claims relate to a process for the manufacture of a varnish which, when applied to surfaces and dried, produces a wrinkled finish exhibiting a pattern of non-uniform worm-like separated wrinkles. Briefly described, the process involves the heating of tung oil, a powerful wrinkling agent, *together with* linseed oil, to control the critical thickening process of the tung oil; this oil composition is then mixed with a *prepared* (cooked) short oil varnish.[2]

These matters were all revealed in the prior art except that (1) it did not specify whether the two oils should be heated together or *separately*; and (2) it specified as preferred procedure that the oil composition be mixed with *unprepared* (uncooked) short oil varnish.[3] [1], [2] Nothing in these slight variations in procedure is sufficient to give rise to invention.[4] Our conclusion would be the same under any plausible view of the criteria for invention laid down by the new patent act which became effective while this appeal was pending.[5] For it is clear to us that even if it be said that there are "differences between the subject matter sought to be patented and the prior art," they "are such that the subject matter as a whole would have been obvious at the time invention was made to a person having ordinary skill in the art • • •"[6] And this is true notwithstanding the fact that the resulting wrinkle pattern differs somewhat from patterns known to

[1] Patent Application No. 653,933. Rev. Stat. § 4915 (1875), as amended, 35 U. S. C. § 63 (1946), has been repealed by the act of July 19, 1952, c. 950, § 5, 66 Stat. 815. It has been replaced by 66 Stat. 803, 35 U. S. C. A. §§ 145, 146 (Supp. 1952).

[2] Record, p. 111, Finding of Fact No. 2.

[3] *Id.* at 112–13, Findings of Fact Nos. 3–9.

[4] *Sherwin-Williams Co.* v. *Marzall*, 88 U. S. App. D. C. 374, 190 F.2d 606 (1951); and see *Mandel Bros.* v. *Wallace*, 335 U. S. 291, 293 (1948); *Funk Bros. Seed Co.* v. *Kalo Inoculant Co.*, 333 U. S. 127 (1948); *Sinclair & Carroll Co.* v. *Interchemical Corp.*, 325 U. S. 327 (1945).

[5] 66 Stat. 798, 35 U. S. C. A. § 103 (Supp. 1952): "A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made."

[6] *Id.* Because non-invention is so clear in the present case under any construction of the new act, we find it unnecessary to define its scope. We merely note in passing that whatever doubts exist about the need for a "flash of genius" in achieving invention, there can be none about the need of such a flash in reconciling appellants' colorable view that the new act has relaxed case law criteria for invention with the contrary view that takes its hue from the following exchanges on the floor of the Senate:

"Mr. Wiley. • • • The bill provides for a codification of the patent laws, and the House of Representatives has worked on this subject for 3 or 4 years. The bill simply constitutes a restatement of the patent laws of the United States." 98 Cong. Rec. 9226, 82d Cong., 2d Sess. (July 3, 1952).

"Mr. Saltonstall. Mr. President, will the Senator from Nevada tell us the purpose of the bill?

"Mr. McCarran. The bill would codify the patent laws of the United States. It is under the able guidance of the Senator from Wisconsin [Mr. Wiley].

"Mr. Saltonstall. I am not a patent lawyer, but I know patents are a very technical subject. Does the bill change the law in any way or only codify the present patent laws?

"Mr. McCarran. It codifies the present patent laws. • • •" 98 Cong. Rec. 9534, 82d Cong., 2d Sess. (July 4, 1952).

See *New Wrinkle, Inc.* v. *Watson*, No. 11475, decided this day, note 2, and the reference in that opinion to H. R. Rep. No. 1923, 82d Cong., 2d Sess. 7 (1952); and *Thys Co.* v. *Oeste*, 21 U. S. L. Week 2447 (March 17, 1953).

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the prior art. The difference is too slight to constitute novelty in the patentable sense. In any event, it was achieved by doing what would have been obvious to one of even ordinary skill seeking variations in wrinkle patterns.

AFFIRMED.

United States Court of Appeals
District of Columbia Circuit

NEW WRINKLE, INC., and WILLIAM A. WALDIE
v.
ROBERT C. WATSON, COMMISSIONER OF PATENTS

No. 11475. Decided March 19, 1953

[— F.2d —; 96 USPQ 436]

1. PATENTABILITY—PROCESS—STEPS TAKEN SIMULTANEOUSLY NOT PATENTABLE OVER STEPS TAKEN SUCCESSIVELY IN ABSENCE OF SUBSTANTIALLY DIFFERENT RESULT.

Held that the District Court was correct in concluding that, although the appellants' method of making a wrinkle coating composition produced a harder finish and firmer wrinkle, steps taken concurrently or simultaneously are the equivalent of and not patentable over steps taken successively, where the result accomplished is substantially the same.

2. SAME — PARTICULAR SUBJECT MATTER — WRINKLE COATING COMPOSITION AND METHOD OF MAKING.

Certain claims to a wrinkle coating composition and method of making *Held* unpatentable over the prior art, whether considered by the standards established in the new patent act or that previously in force.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

H. A. Toulmin, Jr. (*F. E. Drummond* and *Herbert H. Brown* of counsel) for appellants.

E. L. Reynolds (*J. Schimmel* of counsel) for appellee.

Before PRETTYMAN, BAZELON, and FAHY, *Circuit Judges*

FAHY, *Circuit Judge*:

In proceedings in the District Court pursuant to Rev. Stat. § 4915,[1] appellants sought judgment entitling them to Letters Patent on the basis of claims set forth in application Serial No. 653,932, relating to the art of producing a coating composition which creates a wrinkle finish when applied to a surface and dried. The court after a hearing filed a memorandum opinion and entered judgment dismissing the complaint. This accorded with the decision in the Patent Office. We think the judgment must be affirmed.

The claims define a dry mixture consisting of an oil reactant, either maleic acid, maleic acid anhydride, or fumaric acid, and, in addition, a texture producer, such as manganese borate, cobalt acetate, or the lead oxides. This texture producer is referred to as a drier. The two chemical components of the mixture are ground together into a powder. No chemical change by reason of the admixture, however, is advanced in the claims. A composition is made of this powder and a non-wrinkling oil or varnish base. The method of arriving at the composition is to add the powder mixture to a non-conjugated oil heated to a temperature of from 350° F. to 420° F., heating this composition to a temperature of from 570° F. to 620° F., allowing it to cool and then adding a thinner and drier.

Each component part of the powder mixture first above described was known to the prior art of obtaining a wrinkle finish composition. Patents of Waldie, No. 2,392,346, and of Root, Nos. 1,883,408 and 1,950,417. Mixing them together is not invention; nothing is discovered by that alone. We do not understand that there is any serious controversy about this. As the court said of a comparable situation in *In re Trattner*, 58 App. D. C. 355, 30 F.2d 879 (1929), "The record does not show that the combinations set out by appellant result in any new chemical composition, and it is fair to assume that they are mere aggregations" and not patentable.

As to the composition of this powder mixture with a non-wrinkling oil or varnish, Waldie himself, one of the appellants, testified that his patent previously granted disclosed just such a composition of a non-wrinkling oil to which is added maleic acid anhydride and a drier, which produces a wrinkle finish when applied as a coating and dried. And the Root patents disclose the same driers defined in the claims now being considered, that is, cobalt acetate, manganese borate and lead oxides.

The method of reaching the finished product differs from that previously specifically disclosed only in that each of the two parts of the powder mixture (one, the oil reactant, two, the texture producer) had previously been added separately to the heated non-wrinkling oil, whereas in the instant claims they are added simultaneously, having already been mixed together. The result now is as it was before, a wrinkle finish when the product is applied to a surface appropriate for its use. There was testimony, as Judge Curran in the court below pointed out, "that as a result of adding the oil reactant and the texture modifier as a unit, he [Waldie] produced a harder finish and a firmer wrinkle." But, as the court continued, there was no showing that the product "is substantially different from that produced under the prior art. Where the result accomplished is substantially the same, steps taken concurrently or simultaneously are the equivalent of and not patentable over steps taken successively."

[1] What has been said presents we think a fair if brief analysis of the case. We find no basis for disagreeing with the conclusion reached by the court below and by the Patent Office. The coming into effect pending this appeal of new Title 35, U. S. C., revising and codifying the provisions of the United States Code on Patents, does not help

[1] Rev. Stat. § 4915 (1875), as amended 35 U. S. C. § 63 (1946), has been repealed by section 5, act of July 19, 1952, c. 950, 66 Stat. 815. It has been replaced by 66 Stat. 803, 35 U. S. C. A. §§ 145, 146 (Supp. 1952).

appellants.[1] Under section 103 of the new act, "if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art," a patent may not be obtained. The Report of the Committee on the Judiciary of the House of Representatives, of May 12, 1952, accompanying H. R. 7794, which became the act, says of this section,

"• • • An invention which has been made, and which is new in the sense that the same thing has not been made before, may still not be patentable if the difference between the new thing and what was known before is not considered sufficiently great to warrant a patent. • • •" (H. R. Rep. No. 1923, 82d Cong., 2d Sess. 7 (1952).)[2]

[1] The statute took effect January 1, 1953, section 4(a), act of July 19, 1952, c. 950, 66 Stat. 815, and provides that "[i]t shall apply to further proceedings on applications pending on such date." The Solicitor of the Patent Office, with whom we agree, takes the position, on the basis of *Tomlinson of High Point* v. *Coe*, 74 App. D. C. 364, 123 F.2d 65 (1941), and *Barron-Gray Packing Co.* v. *Kingsland*, 84 U. S. App. D. C. 28, 171 F.2d 576 (1948), certiorari denied, 336 U. S. 944 (1949), that the act applies to this case. There is no suggestion by appellants that a remand is desired or required to enable the District Court to consider the case under the standards of the new statute. In any event we would not find that necessary. The facts so clearly lead to the conclusion we reach that we would not be justified in withholding present disposition.

[2] See, also, *New Wrinkle, Inc.* v. *Watson*, No. 11403, decided this day, particularly n. 6.

In his commentary on the statute Charles J. Zinn, Law Revision Counsel of the Committee on the Judiciary of the House, says:

"Section 103 is a restatement of the rule invalidating patents for lack of invention or lack of patentable novelty which has long been recognized by the courts and other authorities but has not before been spelled out in the statute." (1952 U. S. Code Cong. & Adm. News 2507, 2513.)

Plainly any difference whatever from the prior art is not in and of itself sufficient to make out patentable invention under the new statute. [2] We need not determine now just what is its effect; for whether the required difference results from "creative talent," or is described as "sufficiently great to warrant a patent," or, in language found in the present statute, is such that the "subject matter as a whole" would not have been "obvious • • • to a person having ordinary skill in the art," we think it clear that the slight difference over known developments which might be attributable to these claims is devoid of patentability.[1]

[1] This being so, the last sentence of new section 103, which reads "Patentability shall not be negatived by the manner in which the invention was made" is not material to this case.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,881,328, R. D. Read, Decoy unit; 1,981,678, H. B. Staver, Dog racing apparatus, D. C., S. D. Fla. (Tampa), Doc. 2035, *G. C. Monckmeier et al.* v. *Associated Outdoor Clubs, Inc.* Order of dismissal with prejudice Feb. 24, 1953.

1,981,678. (See 1,881,328.) 2,017,022. (See 2,079,338.)

2,032,600, F. A. Smith, Vehicle door check; 2,043,976, 2,137,197, 2,176,641, 2,291,412, R. I. Schonitzer, Combined door-checking and door holding device, filed Feb. 25, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30024, *Ford Motor Co.* v. *Schonitzer Engineering Co.*

2,043,976. (See 2,032,600.) 2,044,401. (See 2,079,338.)

2,054,217, 2,230,403, J. L. Getaz, Method of knitting; 2,230,402, same, Knitted stocking; 2,344,350, same, Hosiery; 2,067,486, G. Gastrich, Hosiery; 2,306,246, R. E. Davis, Knitted wear, filed Feb. 19, 1953, D. C., E. D. Tenn. (Chattanooga), Doc. 2021, *Bear Brand Hosiery Co.* v. *The Davis Co.*

2,067,486. (See 2,054,217.)

2,078,946, E. Houdry, Conversion of hydrocarbons; 2,161,677, same, Catalysis; 2,375,757, J. R. Bates, Regulation of catalytic activity; 2,550,727, H. G. Shimp, Method of catalytic cracking of hydrocarbons utilizing a moving catalyst bed; 2,560,604, H. A. Shabaker, Manipulation of fluent solids; 2,561,331, J. W. Barker, Catalyst regeneration; 2,561,408, C. C. Peavy, same; 2,574,489, Lassiat & Savage, Process of converting hydrocarbon material; 2,579,834, R. Kolignard, Moving catalyst conversion system; 2,624,695, Ivey & Delapiaine, Transfer of granular materials, filed Feb. 27, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 14893, *Houdry Process Corp.* v. *Socony-Vacuum Oil Co., Inc.*

2,079,338, 2,017,022, C. K. Roos, Cementitious material; 2,080,009, same, Plaster wallboard and method of making it; 2,044,401, same, Core composition and method of manufacturing same, filed Feb. 27, 1953, D. C., S. D. N. Y., Doc. 83/83, *U. S. Gypsum Co.* v. *Ebsary Gypsum Co., Inc.*

2,080,009. (See 2,079,338.) 2,137,197. (See 2,032,600.)

2,142,560. (See Re. 20,483.)

2,143,745, J. G. Sola, Constant potential transformer; 2,346,621, same, Alternating current supply system; 2,552,111, C. A. Peterson, Energising circuit for fluorescent lamps in series, filed Sept. 24, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c2055, *Advance Transformer Co.* v. *Sola Electric Co.*

2,161,677. (See 2,078,946.) 2,176,641. (See 2,032,600.)

2,230,402. (See 2,054,217.) 2,230,403. (See 2,054,217.)

2,264,786. (See Re. 20,483.)

2,291,412. (See 2,032,600.) 2,306,246. (See 2,054,217.)

2,344,350. (See 2,054,217.) 2,346,621. (See 2,143,745.)

2,351,925, 2,433,737, M. Chernow, Jewelry clip, D. C., S. D. N. Y., Doc. 52/170, *Sperry Mfg. Co.* v. *Monet Jewelers.* Consent order dismissing complaint and counterclaim (notice Feb. 27, 1953).

2,375,757. (See 2,078,946.)

2,408,286, J. M. Anfiero, Combined electric heater and air circulator; Des. 148,542, R. R. Hutcheson, Grille for electric fans, filed Feb. 26, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13304, *E. A. Laboratories, Inc.* v. *Montgomery Ward & Co., Inc.*

2,420,771, Crawford & Crawford, Knitting machine and method; 2,473,677, same, Knitting machine, filed Feb. 26, 1953, D. C., M. D. N. C. (Greensboro), Doc. 727–G, *Morpul, Inc.* v. *Damascus Hosiery Mills, Inc.* et al.

2,433,737. (See 2,351,925.)

2,464,643, 2,495,196, E. R. Kulka, Holder for gaseous discharge lamps, C. C. A., 4th Cir. (Richmond), Doc. 6531, *Kay Patents Corp.* v. *Martin Supply Co., Inc.* Decree affirming judgment of district court Feb. 19, 1953.

2,473,677. (See 2,420,771.) 2,495,196. (See 2,404,643.)
2,550,727. (See 2,078,946.) 2,552,111. (See 2,143,745.)
2,560,604. (See 2,078,946.) 2,561,331. (See 2,078,946.)
2,561,408. (See 2,078,946.) 2,574,489. (See 2,078,946.)
2,579,834. (See 2,078,946.)
2,593,392. (See Des. 158,439.)
2,624,695. (See 2,078,946.)

Re. 20,483, Lewis & Seybold, Multiple spindle drill; 2,142,560, W. C. Eickman, Paper drilling machine; 2,264,786, Barley & Bradmiller, Drill head, D. C., S. D. N. Y., Doc. 55/317, *Morris-Seybold Co.* v. *E. P. Lawson Co., Inc.* Stipulation and order withdrawing 2,264,786 from suit and amending complaint June 13, 1951. Consent judgment holding infringement by defendant Feb. 24, 1953.

Re. 23,874. (See T. M. 641,864.)

Des. 148,542. (See 2,408,286.)

Des. 158,439, 2,593,392, Budlane & Dusek, Electric deep fat frier, filed Feb. 24, 1953, D. C., E. D. Mich. (Detroit), Doc. 12516, *Dulane, Inc.* v. *Electrical Specialties Co.*

NOTICES

Patent Office Committee on Trade-Mark Law and Practice

The Commissioner of Patents has established, on April 8, 1953, in the Patent Office a Committee on Trade-Mark Law and Practice. The functions of this committee are (1) to consider and evaluate proposals for changing the trade-mark practice and procedure within the Office, with the object of improving the practice, (2) to formulate and recommend changes in practice or statements of policy, and (3) to study proposals relating to changes in the trade-mark statute which may come to the Patent Office for attention, and report its conclusions and recommendations to the Commissioner. Any suggestions, constructive criticisms, or proposals relating to improvement in the practice before the Patent Office in trade-mark cases will be considered by this committee.

Disclaimers

2,140,818.—*Louis H. Stein*, Chicago, Ill. ANTIFRICTION BEARING. Patent dated Dec. 20, 1938. Disclaimer filed Apr. 17, 1953, by the assignee, *Aetna Ball & Roller Bearing Company*.

Hereby enters this disclaimer to claims 1, 4, 7, and 8 of said patent.

2,298,373.—*William L. Hansen* and *Ira N. Hurst*, Princeton, Ind. SLOW SPEED SYNCHRONOUS MOTOR. Patent dated Oct. 13, 1942. Disclaimer filed Apr. 13, 1953, by the assignee, *Hansen Manufacturing Company, Inc.*

Hereby enters this disclaimer to claims 4, 9, 10, and 11 of said patent.

2,520,007.—*Lester Hochgraf*, Maplewood, N. J. TESTING CIRCUIT FOR CARRIER COMMUNICATION SYSTEM WITH AUTOMATIC RESET TIMER. Patent dated Aug. 22, 1950. Disclaimer filed Apr. 13, 1953, by the assignee, *Bell Telephone Laboratories, Incorporated*.

Hereby enters this disclaimer to claim 1 of said patent.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,485,430, M. E. Chandler, Carburetor, decided Apr. 21, 1953, claim 11.

Pat. 2,520,007, L. Hochgraf, Testing circuit for carrier communication system with automatic reset timer, decided Apr. 3, 1953, claim 1.

Pat. 2,599,649, L. Lorenz, Acetylene solution, decided Apr. 1, 1953, claims 1, 2, 3, and 4.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,619,651. Belt. Patented Dec. 2, 1952. Belt-like garment support for attachment to the inner surface of the waist band of a skirt or trousers to retain a blouse or shirt in position. The belt is made of a rubber material with a roughened surface on one side which will adhere to the cloth of the blouse or shirt. Other face of belt has a series of spaced aligned snap fastener studs. An equal number of snap fastener sockets are sewed around inner surface of the waist band of the skirt or trousers. A hook and an eye are provided on the opposite ends of the belt. May be quickly changed from one garment to anotehr. (Owner) Perry Leonard, Effingham, Kans. Groups 22—12; 23—83—84; 40. Reg. No. 50,666.

Pat. 2,620,568. Ruling Pen Gauge. Patented Dec. 9, 1952. Multi-bladed gauge may be used to quickly effect accurate adjustment of the nibs of a ruling pen to various predetermined spaced settings for drawing lines of various widths. The gauge comprises a base block having a plurality of gauge blades of progressively varying thickness mounted in spaced recesses in the upper surface of the block. Each blade is permanently fixed edgewise in the center of its recess so that a ruling pen can be inserted in each recess with the spaced nibs straddling the blade in the recess to determine the spacing of the nibs. The nibs may be selectively applied to any of the blades and quickly adjusted to set the nibs at a spacing corresponding to the thickness of any blade. The thickness of the blades may be designated by any suitable index characters. (Owner) Stanley J. Otis, 26 Breese Terrace, Apt. 1, Madison 5, Wis. Group 39—11. Reg. No. 50,667.

Pat. 2,508,542. Weeding Attachment for Garden Hoes. Patented May 23, 1950. Toothed attachment may be readily slipped on the lower edge of the blade of a conventional garden hoe to adapt the hoe to a variety of useful purposes. The attachment, consisting of a single piece of stamped sheet metal, has a row of downwardly extending teeth and a row of upwardly extending teeth disposed in staggered relation to the lower teeth. The teeth in the upper row are alternately disposed in two planes with the upper portions of the teeth in one of the planes bent inwardly so that the upper row of teeth form gripping elements to firmly engage opposite sides of a hoe blade to securely retain the attachment against dislodgment on the hoe blade. The upper end teeth are narrow and curved inwardly to dispose the tips well within the margins of the hoe blade so that they will not catch on plants or pick up debris. (Owner) Perry O. Sacksteder, 10555 Greenwood Ave., Seattle, Wash. Groups 33—52—59; 40. Reg. No. 50,668.

Pat. 2,617,165. Safety Snap. Patented Nov. 11, 1952. This safety snap fastener is designed to eliminate the use of the standard safety pin. The parts are quickly and easily separated from one another by simply squeezing projections on one of the parts to release the retaining springs from the enlarged head of the other element. It is of simple construction, has a minimum number of parts, and is inexpensive to manufacture. (Owner) Ralph B. Stanley, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Groups 39—99; 40. Reg. No. 50,669.

Pat. 2,618,706. Multiplex Communication System. Patented Nov. 18, 1952. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This patent covers a multiplex communication system in which various channels are distinguished by quantum size, i. e., the size of steps in the variation of the transmitted signal. The system includes means for automatic adjustment to compensate for possible variations of transmission loss. In one form the system may use mostly mechanical and magnetic telegraph equipment; in another form it may use a special cathode ray tube, thereby facilitating high-speed operation. (Owners) Meguer Kalfaian and Robert E. McCoy. Correspondence to Meguer Kalfaian, 962 Hyperion Ave., Los Angeles 29, Calif. Group 36—62. Reg. No. 50,670.

Pat. 2,350,450. Water Heater and the Like. Patented June 6, 1944. Heater comprises a casing having a lower central fire chamber with upper and lower tubular heating sections housed in the casing. The lower section consists of groups of concentric inner and outer horizontal tubes at opposite sides of the fire chamber connected to a pair of front headers and to a single rear header. The upper section consists of concentric inner and outer horizontal tubes located over the fire chamber and connected to a single front and a single rear header. The headers are constructed to cause fluid from an inlet to circulate through the headers and outer tubes to an outlet. The inner tubes extend through opposite headers and are open at their ends for the passage of gases therethrough. The casing is divided into chambers to cause hot gases from the fire chamber to pass upwardly between and around the outer tubes and then pass through the inner tubes to effectively heat the relatively thin streams of fluid circulating through the annular passages between the inner surfaces of the outer tubes and the outer surfaces of the inner tubes. (Owner) Cuthbert L. Dixon, 2262 Hollywood Ave., Apt. 5, Toledo 6, Ohio. Group 33—62. Reg. No. 50,671.

Pat. 2,623,779. Automatic Convertible Steel Top. Patented Dec. 30, 1952. A convertible steel top for an automobile, having telescoping sections extended and retracted by a special air and vacuum supplying system. The telescoping parts, when collapsed, are adapted to be withdrawn and stored in a compartment in the rear of the vehicle. The parts can be extended and returned by push buttons accessible from the dashboard. (Owner) Charles V. Catell, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Group 38—31. Reg. No. 50,672.

Pat. 2,517,055. Reeling Apparatus. Patented Aug. 1, 1950. Reeling device may be utilized for driving and controlling the automatic advancement of a scroll map in accordance with the travel of an automobile or other vehicle over a route represented by the scroll map. When the reeling device is applied to an automobile, the speedometer shaft may be employed as the power take-off for operating the device. The reeling device compensates for the differential and rotational speed between the delivery reel and the receiving reel in such a manner as to minimize variation in tension on the web being reeled. A power transmission between the reels for rotating the receiving reel includes a resilient member having a neutral position from which it yields to permit the delivery reel to lag and to lead the rotational speed of the receiving reel as the diameter of the outermost convolution of the web of each reel varies in the unwinding and winding of the web. (Owner) Oral A. Thompson, 10341 Galloway St., St. Louis 15, Mo. Groups 38—31; 30—12. Reg. No. 50,673.

Pat. 2,519,732. Bucket Holder. Patented Aug. 22, 1950. Holder for suspending a paint bucket from the rung of a ladder or the like has a pair of hooks for receiving the bail of the bucket and an adjustable lock plate for closing the hooks so that the bail cannot be removed from the hooks. A detachable adjustable link is provided for holding the bucket in various tilted positions to provide more room for entry of a paint brush into the bucket. A hanger plate swivelly suspended from a wire hook by an inverted U-shaped wire yoke has a pair of legs terminating at the lower ends in hooks to receive a bucket bail. A vertically slidable lock plate on the front face of the hanger plate may be reciprocated to open and close the hooks of the hanger plate by turning an eccentric disc mounted on the hanger plate. The disc has a dished portion disposed in an elongated slot in the lock plate and is provided with a handle. The link for holding the bucket in various adjusted positions is longitudinally adjustable and is provided with a hook for engaging a hole in the side of the bucket and a snap hook for engaging the bucket bail. (Owner) Albert F. Bartolat, Star Route, Bend, Oreg. Groups 33—59; 40. Reg. No. 50,674.

Pat. 2,538,215. Enema Apparatus. Patented Jan. 16, 1951. Apparatus to be used by properly trained personnel for giving medicated-solution enemas with a minimum of pain to the patient. The apparatus features: An inserting tube, having an inlet opening and inlet passageway connected through a conduit to a supply can containing the treating solution, and also having outlet openings and outlet passageway connected by conduits to a soil can and a discharge can, the cans being supported at designated levels; and valve assembly means for controlling the opening and closing of the conduits so that there may be a release of gas and soiled treatment-solution for relief of the patient without interrupting the treatment. (Owner) Mary E. Stack, 1021 Pine St., Seattle, Wash. Groups 30—51; 34—99; 39—16. Reg. No. 50,675.

Pat. 2,606,557. Means for Giving Peristaltic Enemas. Patented Aug. 12, 1952. This apparatus is in part a continuation of Patent No. 2,538,215 and is intended for use under hospital conditions. The apparatus is based on the principle that liquid introduced into the colon by gravity with substantially negative pressure will be caused to circulate by stimulated natural peristaltic action, producing normal elimination after the treatment. The structure of the apparatus is similar to that of the above patent, with the substitution of a small inlet tube and a larger return tube placed side by side to form the nozzle, and with the addition of an electric heating unit in the supply tank. Adjustment and valve assembly control of the apparatus by trained personnel ensure proper flow of liquid with a minimum of pain to the patient. (Owner) Mary E. Stack, 1021 Pine St., Seattle, Wash. Groups 30—51; 34—99; 39—16. Reg. No. 50,676.

General Electric Company offers the following 13 patents for non-exclusive licensing on reasonable terms to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,422,974. Control Means for Pressure Cookers and the Like. Patented June 24, 1947. Electrically heated pressure cooker having a heating unit in the base and a cooking container removably mounted on the base may be used as a non-pressure cooker with the cover removed to first sear and brown edibles, and then used as a pressure cooker to complete the cooking operation. Temperature-responsive means are provided for controlling the heater when the cooker is used as a non-pressure cooker, and pressure-responsive means are provided for controlling the heater when the cooker is used as a pressure cooker. The act of placing the cooking container on the base automatically completes the circuit to the heater, and removing it breaks the circuit. Group 36—21. Reg. No. 50,677.

Pat. 2,571,782. Cooker. Patented Oct. 16, 1951. Electrically heated pressure cooker having a built-in heating unit and an adjustable temperature control for the heater may be used as a non-pressure cooker with the cover removed to first sear and brown edibles, and then used as a pressure cooker to complete the cooking operation. A safety element associated with the temperature control prevents application of the cover when the temperature control is set to the higher searing and browning temperatures. The safety element also prevents the temperature control from being set to any position higher than the pressure cooking range when the cover is locked on the cooker. Group 36—21. Reg. No. 50,678.

Pat. 2,609,835. Adjustable Magnetic Pressure Valve. Patented Sept. 9, 1952. Adjustable magnetic pressure valve is designed primarily for home pressure cookers to control the pressure in accordance with the setting of the valve. An embedded U-shaped permanent magnet in the upper end of the valve lies beneath an apertured magnetic disc forming the bottom of an inverted cup shaped vented valve cap. A magnetic ball valve within the cap closes the aperture in the disc. The valve may be adjusted by rotating the cap to change the position of magnetic portions of the disc with respect to the poles of the magnet to vary the pull of the magnet upon the ball valve. Groups 33—66; 36—21. Reg. No. 50,679.

Pat. 2,604,487. Organosilicon Oils. Patented July 22, 1952. This invention relates to organosilicon oils comprising chemical compounds of silicon, oxygen, sulfur, carbon, and hydrogen. The oils may be used as lubricants, hydraulic fluids, and as lubricity additives for petroleum oils or other organosilicon oils. They may also be employed as plasticizers for organosilicon resins and elastomers for polyvinyl halide resins. Group 28—89—96. Reg. No. 50,680.

Pat. 2,606,153. Silicone Greases. Patented Aug. 5, 1952. Lubricating grease composition for withstanding high temperatures comprises a homogeneous blend of a liquid organopolysiloxane and a grease-forming composition or thickening agent for the grease consisting of lithium 2-ethylhexoate. Group 28—96. Reg. No. 50,681.

Pat. 2,610,154. Luminescent Zinc Sulfide Phosphors and Method of Preparing Same. Patented Sept. 9, 1952. Method of inducing luminescence in potentially luminescent materials involves forming a saturated solution of the material together with an activator therefor, and heating at temperatures between 250° and 374° C. until the material has attained a homogeneous structure. Group 28—89. Reg. No. 50,682.

Pat. 2,610,823. Turbine Bucket Damping Arrangement. Patented Sept. 16, 1952. Vibration dampener for turbine bucket wheels may be readily applied to existing bucket wheels even after they have been placed in operation. The dampener consists of a sheet metal clip to be inserted radially inward under each pair of adjacent shroud segments secured to the tips of the bucket blades and loosely held in place by bending the edge portions of the clip radially outwardly and around the outer edges of the segments. Groups 35—11; 37—22. Reg. No. 50,683.

Pat. 2,610,871. Rotating Shaft Seal. Patented Sept. 16, 1952. Assembly for sealing rotating shafts against the passage of fluids may be applied to an automatic clothes washing machine of the type having an oscillating agitator shaft extending through a tubular rotatable shaft carrying a clothes basket. Group 35—81. Reg. No. 50,684.

Pat. 2,610,961. Stabilization of Thixotropic Compositions Comprising Polyesters With Quinone. Patented Sept. 16, 1952. Stabilizer for thixotropic compositions comprises a t-butyl catechol containing alkyd resin, a polymerization catalyst and a filler which gives a suitable storage life to the compositions by preventing loss in thixotropic characteristics. Group 28—83. Reg. No. 50,685.

Pat. 2,610,993. Adjustable Magnetic Shunt for Permanent Magnet Generators. Patented Sept. 16, 1952. Permanent magnet excited dynamoelectric machine has a stationary laminated shunt member abutting one side of a pair of permanent magnet pole pieces for preventing demagnetization of the magnets, and an adjustable laminated shunt member abutting the other sides of the pole pieces. A screw may be turned to adjust the amount of engagement of the adjustable shunt member with the sides of the pole pieces for controlling the output voltage of the machine. Group 36—19. Reg. No. 50,686.

Pat. 2,611,057. Thermally Actuated Mercury Switch. Patented Sept. 16, 1952. Switching device in which overtravel action similar to "slip-clutch" action is included may be employed in control apparatus for oil-burning furnaces and the like to indicate whether or not combustion is established therein. Group 33—66. Reg. No. 50,687.

Pat. 2,611,122. Dynamoelectric Machine. Patented Sept. 16, 1952. Armature reaction excited dynamoelectric machine has only three polar projections and three brushes, thus simplifying the construction and permitting more space for field exciting windings in the same frame size machine. Group 26—19. Reg. No. 50,688.

Pat. 2,611,861. Amplitude Comparison Circuit. Patented Sept. 23, 1952. In one embodiment of this invention, a probe is inserted into a high frequency transmission line of the concentric conductor type to derive a signal voltage proportional to the transmission line voltage, and a loop is inserted in the same line at the same point to derive a second signal voltage proportional to the current flowing in the line. The two signal voltages are applied to an electron discharge rectifier device of the duo-diode type in series with a resistor. The output voltage of the rectifier device is proportional to the relative amplitudes of the voltage and the current in the transmission line. Group 36—13—19. Reg. No. 50,689.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 12, 1953

[VOL. 670. NO. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 590,803. The Buckeye Cotton Oil Company, Cincinnati, Ohio. Filed Jan. 13, 1950.

BUCKEYE

For Chemical Cotton Pulp (Alpha Cellulose) Made From Cottonseed Hull Fibers and Cotton Linters, Used in the Manufacture of Rayon, Photographic Film, Plastics, and Related Goods.

Claims use since Jan. 31, 1920.

Ser. No. 621,641. Western Peat Company Limited, Lulu Island, British Columbia, Canada. Filed Nov. 24, 1951.



Applicant disclaims any exclusive use of the word "Brand" apart from the mark shown in the drawing.

For Horticultural Peat Moss.

Claims use since June 1943; and since June 1943, in commerce between foreign nations and the United States.

Ser. No. 623,959. Hyper-Humus Company, Bryn Mawr, Pa. Filed Jan. 23, 1952.



Applicant claims ownership of Registrations Nos. 373,544 and 343,027.

For Partially Humified Peat, of Reed and Sedge Origin, Grown in Lime Bearing Water Environment, Which Has Virtually No Alluvium or Foreign Mineral Impurities.

Claims use since Dec. 12, 1950.

Ser. No. 625,847. Coastal Glads Farm, Fort Myers, Fla. Filed Mar. 3, 1952.

COASTAL GLADS FARM

No claim is made to exclusive right to use the words "Glads" and "Farm" apart from the mark as shown.

For Cut Flowers.

Claims use since Jan. 10, 1952.

Ser. No. 626,133. American Colloid Company, Chicago, Ill. Filed Mar. 8, 1952. (Sec. 2f.)

Superior Gel

Applicant disclaims the word "Gel" apart from the mark as shown.

For Wyoming Type Bentonite in Powdered Form.

Claims use since Apr. 25, 1946.

Ser. No. 631,774. American Colloid Company, Chicago, Ill. Filed June 26, 1952. (Sec. 2f as to "Panther Creek.")



Applicant claims ownership of Registration No. 384,394.

For Clays, Particularly Bentonite.

Claims use since Aug. 1, 1939, on the words "Panther Creek"; and since September 1948, on the mark as shown.

Ser. No. 635,890. United States Rubber Company, New York, N. Y. Filed Sept. 27, 1952.

ENRUP

For Thermosetting Plastic Material in Sheet and Slab Form for Use in the Manufacture of Various Articles of Merchandise.

Claims use since Mar. 23, 1951.

CLASS 2

RECEPTACLES

Ser. No. 613,498. Burlington Basket Company, Burlington, Iowa. Filed May 4, 1951.

Hawkeye

Applicant claims ownership of Registrations Nos. 220,693 and 385,967.
For Hamper Baskets, Baby Baskets, Laundry Baskets, Picnic Baskets, and Miniature Baskets.
Claims use since about the year 1900.

Ser. No. 622,597. Hedwin Corporation, Baltimore, Md. Filed Dec. 17, 1951.

Hedwin

Applicant claims ownership of Registration No. 441,668.
For Plastic Drum Liners and Bags.
Claims use since July 27, 1949.

Ser. No. 628,562. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Dust Bags for Vacuum Cleaners, and Receptacles for Lubricants—Namely, Oil-Dispensing Cans, Collapsible Tubes, Barrels, Cans, and Cardboard Cartons and Boxes or Cases.
Claims use since in the year 1905.

Ser. No. 630,087. The F. H. Lawson Company, Cincinnati, Ohio. Filed May 22, 1952.

TORPEDO

For Metal Trash Cans.
Claims use since Oct. 7, 1940.

Ser. No. 630,156. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 23, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.
For Dust Bags for Vacuum Cleaners, and Receptacles for Lubricants—Namely, Oil-Dispensing Cans, Collapsible Tubes, Barrels, Cans, and Cardboard Cartons and Boxes or Cases.
Claims use since prior to the year 1880.

Ser. No. 633,591. See-Qual Package Corp., Brooklyn, N. Y. Filed Aug. 7, 1952.

SEEQUAL-PAK

The word "Pak" is disclaimed apart from the mark as shown in the drawing.
For Plastic Container Trays for Wrapped Fruit Units.
Claims use since June 16, 1952.

Ser. No. 634,729. Robert A. Bushnell, Caldwell, Idaho. Filed Sept. 2, 1952.

Porta Planter

Applicant disclaims the word "Planter" apart from the mark as shown.
For Boxes for Holding Plants and Flowers.
Claims use since July 1952.

Ser. No. 636,156. Tidy-House Paper Products, Inc., Brooklyn, N. Y., now by change of name Tidy House Paper Corp. of N. Y. Filed Oct. 3, 1952.

Tidy Home

For Paper Household Products—Namely, Sandwich Bags, Lunch Bags, Garbage Bags, and Refrigerator Bags.
Claims use since September 1952.

Ser. No. 639,348. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed Dec. 11, 1952.



Applicant claims ownership of Registration No. 435,961.
For Empty Metal Containers, in the Nature of Pressure Bottles or Cylinders, for Compressed Fluids.
Claims use since Nov. 15, 1937.

Ser. No. 639,424. Gaylord Container Corporation, St. Louis, Mo. Filed Dec. 13, 1952.

CIRCLE

Applicant claims ownership of Registration No. 298,570.
For Paper Bags and Sacks; Containers of All Kinds Made of Paper, Fiberboard Boxes, Solid Fiberboard, Corrugated Fiberboard, or Combinations of Wood and Solid Fiberboard or Corrugated Board; and Fiberboard Liners for Containers.
Claims use since May 21, 1932.

Ser. No. 639,484. Marathon Corporation, Menasha, Wis. Filed Dec. 15, 1952.

WAXTEX

Applicant claims ownership of Registrations Nos. 258,776 and 515,228.
For Waxed Paper Bags.
Claims use since Nov. 12, 1952.

Ser. No. 639,764. Marathon Corporation, Menasha, Wis. Filed Dec. 19, 1952.

MARLON

For Paper Cartons.
Claims use since Nov. 21, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 636,719. Mayfab Inc., Brooklyn, N. Y. Filed Oct. 16, 1952.

MAYETTE

For Traveling Bags and Suitcases.
Claims use since Sept. 17, 1952.

Ser. No. 637,255. House of Huston, Inc., Miami and Coral Gables, Miami, Fla. Filed Oct. 27, 1952.

PAL

For Dog Leashes, Choke Chains, Dog Collars, and Combs.
Claims use since Sept. 26, 1951.

Ser. No. 637,750. Ruxton, Incorporated, Springfield, Mass. Filed Nov. 7, 1952.

STATESMAN

For Billfolds, Pass Cases, Purses, and Combinations Thereof.
Claims use since Oct. 20, 1952.

Ser. No. 638,136. Morris L. Duskin, doing business as Century Specialty Co., Chicago, Ill. Filed Nov. 15, 1952.

CAR-PORTER

For Garment Travel Bags.
Claims use since Oct. 3, 1952.

Ser. No. 638,610. I. Smallman & Sons, Paterson, N. J., and New York, N. Y. Filed Nov. 25, 1952.

PASSCOT

For Billfolds, Wallets, Key Cases, and Pass Cases.
Claims use since Oct. 15, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 601,401. Able Industries Corporation, New York, N. Y. Filed July 29, 1950.

Wunda-Bright

The descriptive word "Bright" is disclaimed apart from the mark as shown in the drawing.
For Automobile Polish.
Claims use since June 21, 1950.

Ser. No. 620,295. Barton Manufacturing Company, St. Louis, Mo. Filed Oct. 22, 1951. (Sec. 2f as to "Barton's" and "Dyanshine.")



The words "Shoe Polish" and "Color Scuffs!" and the representation of the goods are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 131,931 and 506,911.
For Polish for Leather Goods.
Claims use since 1924 as to the mark as shown; since 1922 as to the representation of a bell-boy; and since July 15, 1918, as to "Barton's" and "Dyanshine."

CLASS 5

ADHESIVES

Ser. No. 635,344. Bard's Products, Inc., Evanston, Ill. Filed Sept. 17, 1952.

Wonderglue

For Adhesive Consisting of Liquid Glue in a Container and Adapted for Gluing Chairs, Tables, Frames, Shoes, Golf Bags, Raincoats, Floor Mats, Dishes, China and Tile, Etc.
Claims use since Aug. 29, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 565,471. Bridgeport Brass Company, Bridgeport, Conn. Filed Sept. 20, 1948.

Goodaire

No claim is made to the exclusive right to the use of the word "Aire" apart from the mark shown.
For Space Deodorant.
Claims use since Sept. 1, 1948.

Ser. No. 609,571. Tennessee Products & Chemical Corporation, Nashville, Tenn. Filed Feb. 2, 1951.

TPC

Applicant claims ownership of Registration No. 282,437.
For Chemical Products and Technical Preparations—Namely, Wood Preservers, Disinfectants, Household Germicides, Insecticides, Fungicides, and Anti-Freeze Mixture.
Claims use since Aug. 1, 1930.

Ser. No. 609,692. Nopco Chemical Company, Harrison, N. J. Filed Feb. 6, 1951.

NOPCOBOND

For Anti-Stripping Agent for Bituminous Mixes.
Claims use since Apr. 28, 1950.

Ser. No. 609,693. Nopco Chemical Company, Harrison, N. J. Filed Feb. 6, 1951.

NOPCOVAR

For Metallic Soaps as Additives to Bituminous Compositions for Roofing or Road Surfacing.
Claims use since Nov. 20, 1950.

Ser. No. 611,559. California Chemical Corporation, San Bernardino, Calif. Filed Mar. 20, 1951.

ZAPONIN

For Chemical Ingredients for Use in Manufacture of Baker's Preparations.
Claims use since Nov. 30, 1950.

Ser. No. 612,736. Geigy Company, Inc., New York, N. Y. Filed Apr. 17, 1951.

GY-ZIP

Applicant claims ownership of Registrations Nos. 500,519, 523,432, and others.
For Preparation for Destroying Insects and Vermin.
Claims use since Feb. 12, 1951.

Ser. No. 623,838. Muriel R. Keeley, New York, N. Y. Filed Jan. 21, 1952.

Leprechaun MIST

No claim is made to the expression "Mist" apart from the mark as shown.
For Sprays To Raise the Nap of Suede, or Velvet, or Downy Material.
Claims use since Jan. 18, 1952.

Ser. No. 624,999. Champion Textile Finishing Co., Chicago, Ill. Filed Feb. 15, 1952.

MILDU MASTER

No registration rights are claimed in the word "Mildu" used apart from the mark as shown.
For Liquid Inhibitant for Treating Fabric To Repel Moisture and Mildew.
Claims use since January 1952.

Ser. No. 625,043. Sels et Produits Chimiques S. A., Brussels, Belgium. Filed Feb. 15, 1952.

ISOGAM

Applicant claims ownership of Belgian Registration No. 63,719, dated Feb. 12, 1948.
For Chemical Ingredient Used in Insecticides, Insect Repellents, and Parasiticides.

Ser. No. 628,866. The Ottawa Chemical Company, Toledo, Ohio, assignor to The Essential Chemicals Co., Inc., Milwaukee, Wis. Filed Apr. 29, 1952.

KENICIDE

For Parachlorometaxylenol (3-5-Dimethyl-4-Chloro-Hydroxy Benzene or 3,5-Dimethyl-4-Chlorophenol).
Claims use since Apr. 7, 1952.

Ser. No. 629,400. United States Testing Company, Inc., Hoboken, N. J. Filed May 8, 1952.

SOLUFILM

For Water Dispersible Sheet Used in Effectuating Dyeing or Detergent Operations.
Claims use since Aug. 13, 1951.

Ser. No. 631,534. Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Filed June 21, 1952.

'DEHYBOR'

For Anhydrous Sodium Tetraborate.
Claims use since Dec. 28, 1950.

Ser. No. 631,535. Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Filed June 21, 1952.

NEOBOR

For Sodium Tetraborate Pentahydrate.
Claims use since Dec. 29, 1950.

Ser. No. 631,646. Beach Soap Company, Lawrence, Mass. Filed June 24, 1952.

RINSPEED

For Material for Use in Connection With the Washing of Textiles for Brightening and Facilitating the Rinsing of the Same.
Claims use since Apr. 30, 1952.

Ser. No. 632,187. The Weevil-Cide Company, Kansas City, Mo. Filed July 5, 1952. (Sec. 2f.)

Rat-Cide

For Rodenticide.
Claims use since about Apr. 15, 1932.

Ser. No. 632,748. Schiller Laboratories, Inc., Schiller Park, Ill. Filed July 18, 1952.

Elu-Ett

For Preparation To Be Used as a Textile Softener.
Claims use since June 11, 1952.

Ser. No. 633,031. Warren A. Betterly, doing business as The M. A. E. Co., Fall River, Mass. Filed July 25, 1952.



Applicant claims ownership of Registration No. 305,895.
For Chemical Composition in Liquid, in Semi-Liquid, and in Dry Forms Prepared as an Integral Mix for Admixture With Cement Mortar To Predetermine the Setting Time, To Cure, and To Waterproof the Cement Mortar With Which It Is To Be Admixed.
Claims use since Jan. 1, 1948.

Ser. No. 633,448. Cook Chemical Company, Kansas City, Mo. Filed Aug. 4, 1952.

REAL-GREEN

Applicant claims ownership of Registration No. 557,330.
For Insecticides, Fungicides Used as a Plant Spray.
Claims use since July 21, 1952.

Ser. No. 633,953. Warren Belting Company, Inc., Worcester, Mass. Filed Aug. 14, 1952.



For Dressings for Power and Transmission Belting.
Claims use since June 18, 1952.

Ser. No. 634,846. Charles J. Haas, Incorporated, Philadelphia, Pa. Filed Sept. 4, 1952.

HASCO

For Chemical Preparation Used as a Flame Quencher.
Claims use since Nov. 4, 1951.

Ser. No. 634,957. The AP Parts Corporation, Toledo, Ohio. Filed Sept. 8, 1952.

FLURON

For Halogenated Hydrocarbon Liquid Carriers for the Dispersion of Solid Lubricants.
Claims use since Apr. 28, 1950.

Ser. No. 635,901. Virginia S. Carson, Kansas City, Mo. Filed Sept. 29, 1952.



The word "Didy" is disclaimed apart from the mark shown in the drawing. The representation of the child appearing on the drawing is fanciful.
For Deodorizer, Germicide, and Disinfectant for Clothing, Particularly Diapers.
Claims use since Jan. 15, 1951.

Ser. No. 637,066. Loamium Co. of America, Harrison, N. J. Filed Oct. 23, 1952.

KEM-KUT

For Chemical Preparation Designed To Be Used To Reduce the Growth of Grass and Plants.
Claims use since Sept. 10, 1952.

Ser. No. 637,945. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Nov. 12, 1952.

Coromerc

Applicant claims ownership of Registrations Nos. 533,213, 533,212, and others.
For Fungicide for Control of Plant Diseases.
Claims use since Apr. 5, 1952.

Ser. No. 637,946. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Nov. 12, 1952.

COROSUL "D"

Applicant claims ownership of Registrations Nos. 533,213, 533,212, and others.
For Fungicide for Control of Plant Diseases.
Claims use since Aug. 16, 1950.

Ser. No. 637,947. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Nov. 12, 1952.

COROSUL "S"

Applicant claims ownership of Registrations Nos. 533,213, 533,212, and others.
For Fungicide for Control of Plant Diseases.
Claims use since Aug. 25, 1950.

Ser. No. 637,948. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Nov. 12, 1952.

COROZATE

Applicant claims ownership of Registrations Nos. 533,213, 533,212, and others.
For Fungicide for Control of Plant Diseases.
Claims use since May 9, 1950.

Ser. No. 638,910. King Research, Inc., Brooklyn, N. Y. Filed Dec. 3, 1952.

BARBICIDE

Applicant claims ownership of Registration No. 563,779.
For Disinfectant.
Claims use since Jan. 6, 1947.

Ser. No. 638,972. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Dec. 4, 1952.

CZA

For Organic Acid Used as an Intermediate in Chemical Syntheses.
Claims use since Nov. 21, 1952.

Ser. No. 639,077. The River Plate Corporation, New York, N. Y. Filed Dec. 5, 1952.

D.Q.E.

For Quebracho Extract.
Claims use since Mar. 12, 1930.

Ser. No. 639,284. Mitchell Rand Mfg. Corp., New York, N. Y. Filed Dec. 10, 1952.

RANDAC

For Thermosetting and Encapsulating Plastic Compounds for the Protection of Electronic and Electrical Components.
Claims use since on or about Jan. 29, 1952.

Ser. No. 639,352. Wen-Mac Corporation, Beverly Hills, Calif. Filed Dec. 11, 1952.

V-73

For Glow Plug Engine Fuel.
Claims use since Nov. 26, 1952.

Ser. No. 639,439. Nopco Chemical Company, Harrison, N. J. Filed Dec. 13, 1952.

NOPCOTEX

Applicant claims ownership of Registration No. 556,194.
For Textile Finishing Compounds for Use in the Treatment of Fibers and Fabrics.
Claims use since Dec. 10, 1949.

Ser. No. 641,372. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Jan. 27, 1953.

CYANOBRIK

Applicant claims ownership of Registrations Nos. 105,872, 165,603, and 503,214.
For Sodium Cyanide.
Claims use since Dec. 23, 1952.

Ser. No. 642,016. Ciba Limited, Basel, Switzerland. Filed Feb. 10, 1953.

PYROVATEX

Applicant claims ownership of Swiss Registration No. 142,442, dated May 12, 1952.
For Chemical Products for Use as Textile Auxiliary Agents; Flame Proofing Agents.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 588,347. Wood Conversion Company, St. Paul, Minn. Filed Nov. 25, 1949. (Sec. 2f.)

Sta-Lite

For Light-Colored Coated Rigid Fiber Insulation Board.
Claims use since Feb. 6, 1939.

Ser. No. 591,370. Raymond W. Kerr, doing business as Kerrco Products, Hastings, Nebr. Filed Jan. 24, 1950.

KERRCO

For Window Sills, Casings, and Trim; Door Jambs, Casings, and Trim, Baseboards, Moldings, Joint Assembly Strips, Ornamental Trims, Sheets and Panels of Plastic Material or in Major Part of Plastic Material Ready for Installation.
Claims use since Nov. 24, 1948.

Ser. No. 624,396. Corhart Refractories Company, Louisville, Ky. Filed Feb. 1, 1952.

COROC

Applicant claims ownership of Registration No. 315,378.
For Refractory Blocks, Bricks, and Bodies of Special Shape for Furnaces.
Claims use since on or about Mar. 30, 1933.

Ser. No. 631,442. Seating Incorporated, Minneapolis, Minn. Filed June 19, 1952.

S I C O

For Bleachers.
Claims use since Oct. 15, 1951.

Ser. No. 634,051. Minnesota and Ontario Paper Company, Minneapolis, Minn. Filed Aug. 16, 1952.

TEMPERLAP

For Water Proofed Vegetable Fiber Board Used for Siding.
Claims use since Aug. 8, 1952.

Ser. No. 634,435. Columbia Plywood Co., Seattle, Wash. Filed Aug. 25, 1952.

KALABORD

For Grooved Hardboard Laminated With Plywood.
Claims use since Mar. 26, 1952.

Ser. No. 634,515. John W. Alther, Washington, D. C. Filed Aug. 27, 1952.

CUSTOMCRETE

For Dry, Ready-Mixed Concrete.
Claims use since August 1952.

Ser. No. 634,720. Weidler Lumber Company, Inc., Chicago, Ill. Filed Aug. 30, 1952.

Treasure Isle

For Finished Lumber—Namely, Panels and Moulding.
Claims use since July 2, 1952.

Ser. No. 634,732. The Connor Lumber and Land Company, Marshfield, Wis. Filed Sept. 2, 1952.



For Wooden Flooring.
Claims use since July 1, 1952.

Ser. No. 637,409. Tylac Company, Monticello, Ill. Filed Oct. 30, 1952.

TYLAC

Applicant claims ownership of Registration No. 245,363.
For Decorative Tile and Mouldings.
Claims use since Jan. 2, 1928.

Ser. No. 637,953. Joseph T. Ryerson & Son, Inc., Chicago, Ill. Filed Nov. 12, 1952.

RY-WELD

The term "Weld" is disclaimed apart from the mark as shown.
For Steel Flooring.
Claims use since Oct. 22, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 598,325. The Schaible Company, Cincinnati, Ohio. Filed May 29, 1950. (Sec. 2f.)

QUIK-FLO

For Quick Opening and Self Closing Gate Valves, Used in Connection With Steam, Water, Oil, Air, and Gas Service.
Claims use since on or about Mar. 1, 1925.

Ser. No. 619,682. Rouse Lumber & Building Co., Houston, Tex. Filed Oct. 6, 1951.

Frigid-Fount

In the drawing, the horizontal dotted lines shown on the letters represents the color gray, and not shading.
For Piping, Pipe Fittings, Valves, Traps, Floats, Drains, Water Diffusers, Nozzles, Overflow Risers, Drain Grills, and

Piping Manifolds Sold in Combination for Connecting Air Conditioning Units With Cooling Basins.
Claims use since Oct. 24, 1950.

Ser. No. 628,212. The James Knights Company, Sandwich, Ill. Filed Apr. 17, 1952.



For Faucets and Hydrants.
Claims use since February 1951.

Ser. No. 626,361. The McIntire Corporation, Cambridge, Mass. Filed Apr. 19, 1952.

INVINCIBLE

Applicant claims ownership of Registration No. 78,338.
For Fire Hose Nozzles.
Claims use since October 1909.

Ser. No. 635,752. Evanston Stamping Company, Evanston, Ill. Filed Sept. 25, 1952.



For Metal Baking Sheets, Baking Pans, and Cooking Pans.
Claims use since July 14, 1952.

Ser. No. 637,767. The Enterprise Aluminum Company, Massillon, Ohio. Filed Nov. 7, 1952.

Colonel Popper

For Corn Poppers.
Claims use since July 7, 1952.

Ser. No. 637,883. Pacific Wire Products Company, Compton, Calif. Filed Nov. 10, 1952.

DURALUM

For Aluminum Insect Screen Cloth.
Claims use since Dec. 5, 1951.

Ser. No. 637,884. Pacific Wire Products Company, Compton, Calif. Filed Nov. 10, 1952.

DUROID

Applicant claims ownership of Registration No. 239,022.
For Galvanized Insect Screen Cloth.
Claims use since Apr. 2, 1927.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 625,275. Illinois Iron & Bolt Co., Carpentersville, Ill. Filed Feb. 20, 1952.



No claim is made to the word "Brand" apart from the mark as shown. Applicant claims ownership of Registration No. 75,084.
For Anvils.
Claims use since 1878.

Ser. No. 630,885. Arthur Doniger Paper Co., Inc., New York, N. Y. Filed June 7, 1952.

GOURMET

For Aluminum Foil.
Claims use since Oct. 15, 1951.

Ser. No. 634,647. Joseph Levine, trading and doing business as The Investment Casting Co., Newark, N. J. Filed Aug. 29, 1952.



The word "Castings" is disclaimed apart from the mark as shown. The mark comprises the words "Investment" and "Casting" with the initials "IC" disposed therebetween and superimposed on a lined background.
For Ferrous and Non-Ferrous Castings, Made to Order.
Claims use since Oct. 23, 1950.

CLASS 15

OILS AND GREASES

Ser. No. 609,895. Whale Oil Company Incorporated, Brooklyn, N. Y. Filed Feb. 9, 1951.

Triboro

For Lubricating Oil.
Claims use since Apr. 15, 1950.

Ser. No. 626,281. Whale Oil Company Incorporated, Brooklyn, N. Y. Filed Mar. 11, 1952.

ALLBORO

For Lubricating Oil.
Claims use since Dec. 10, 1951.

Ser. No. 638,670. The Silicote Corporation, Oshkosh, Wis. Filed Nov. 26, 1952.

Surgicote

For Lubricant and Protectant for Metal Instruments.
Claims use since Feb. 21, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 543,317. Nu-Enamel Corporation, Chicago, Ill., now by merger and change of name E Z Paintr Corporation. Filed Dec. 4, 1947. (Sec. 2f.)

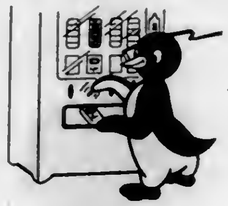
NU-ENAMEL

For registration purposes no claim is made to the exclusive use of the word "Enamel" alone in connection with enamels. Applicant claims ownership of Registrations Nos. 225,101, 307,252, 308,024, and 322,974.
For Automobile and Metal Paint Enamels and Varnishes, Mixed Paints, Varnishes, Interior Flat and Gloss Wall Paint, Interior and Exterior Aluminum Paint, Interior Undercoat Paint, Interior and Exterior Metal Undercoat Paint, Exterior House Paint, Exterior Barn and Roof Paint, Interior and Exterior Masonry Paint, Paint Enamels, Wood Stains, Lacquers, and Paint Colors Ground in Oil.
Claims use since March 1925.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 603,759. Brown & Williamson Tobacco Corporation, Louisville, Ky. Filed Sept. 20, 1950.



Applicant claims ownership of Registrations Nos. 317,709, 319,567, and 520,428.
For Cigarettes.
Claims use since Mar. 6, 1950.

Ser. No. 633,594. Stephano Brothers, Philadelphia, Pa. Filed Aug. 7, 1952.

TYCOON
KINGS

No claim is made to the exclusive use of the word "Kings" apart from the mark as shown.
For Cigarettes.
Claims use since July 23, 1952.

Ser. No. 638,135. Cuesta, Rey & Co., Tampa, Fla. Filed Nov. 15, 1952.



Applicant claims ownership of Registration No. 80,803.
For Cigars.
Claims use since May 18, 1910.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 595,131. First Texas Chemical Manufacturing Co., Dallas, Tex. Filed Apr. 3, 1950. (Sec. 2f.)

GLYCO-PRUNI

For Cough Sirup.
Claims use since 1912.

Ser. No. 599,113. John L. Petranek, doing business as J. P. Products Co., Hammond, Ind. Filed June 14, 1950.



The word "Fut" and the representation of a foot are disclaimed apart from the mark.
For Foot Powder and Liquid for Use as a Fungicidal Antiseptic; for Treatment of Athlete's Foot; and for Ringworm.
Claims use since May 1, 1949.

Ser. No. 601,288. Supra-Vite Corp., New York, N. Y. Filed July 26, 1950.

Supra Vite

No claim is made to the word "Vite" apart from the mark as shown.

For Vitamin and Mineral Preparations in Tablet, Capsule, and Perle Form and a Concentrated Food Supplement Containing Vitamins and Minerals.

Claims use since June 20, 1950.

Ser. No. 608,913. Block Drug Company, Inc., doing business under the trade name and style of Emergency Laboratories, Jersey City, N. J. Filed Jan. 18, 1951.

Aquett

For Water Soluble Ointment Base.

Claims use since Dec. 27, 1950.

Ser. No. 609,701. Schwarz Laboratories, Inc., New York, N. Y. Filed Feb. 6, 1951.

MINUCLEIN

For Products Containing Metallic Nucleates Which Are Salts of Metals and Ribonucleic Acid, for Use as a Nutritional Supplement.

Claims use since June 19, 1950.

Ser. No. 611,312. Schenley Laboratories, Inc., New York, N. Y. Filed Mar. 14, 1951.

ABICOL

For Products Used as Mixing Ingredients or Feed Supplements in Poultry, Livestock, and Other Animal Feeds and Containing Vitamin B_{12}.

Claims use since Dec. 27, 1950.

Ser. No. 612,103. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. Filed Feb. 24, 1951.

Visadron

Applicant claims ownership of German Registration No. 510,758, dated May 8, 1939.

For Eye-Drops.

Ser. No. 614,964. Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Filed June 8, 1951.

MULTERGAN

Priority under Sec. 44(d). French Registration No. 408,199, dated Dec. 15, 1950.

For Medicinal Product for the Treatment of Histaminic and Cholinergic Conditions.

Ser. No. 615,210. E. K. Cook & Co., Inc., Washington, D. C. Filed June 15, 1951.

E.A.P.

For Medicinal Preparation Adapted for Administration Under Prescription in the Treatment of the Menopause.

Claims use since Mar. 2, 1951.

Ser. No. 616,512. Salude Laboratories, Inc., Brooklyn, N. Y. Filed July 14, 1951.

V X M

For Dietary Supplement.

Claims use since June 17, 1951.

Ser. No. 616,627. John A. Fitzsimmons, doing business as Fitzsimmons Products, New York, N. Y. Filed July 18, 1951.

James E. Fitzsimmons

The mark consists of the signature of "James E. Fitzsimmons" whose consent to register is of record.

For External Veterinary Liquid Preparation Having Mild Blistering Properties.

Claims use since May 1940.

Ser. No. 620,548. William L. Mayer, Detroit, Mich. Filed Oct. 27, 1951.

CARNEVITA

For Chemo-Therapeutic Pharmaceutical Preparation in Solution Form for Subcutaneous Injection by Physicians for the Treatment of Blood Deficiencies.

Claims use since Sept. 2, 1951.

Ser. No. 625,373. Tenny Pharmacy, Inc., New York, N. Y. Filed Feb. 21, 1952.

PARATOS

For Cough Medicine.

Claims use since June 1951.

Ser. No. 626,179. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Mar. 8, 1952. (Sec. 2f.)

SHARP & DOHME

Applicant claims ownership of Registration No. 101,982.

For Pharmaceutical and Medicinal Goods, Products, and Preparations, for Internal and Also for External Use, Whether in the Form of Ampules, Powders, Granules, Tablets, Pills, Capsules, Salts, Elixirs, Extracts, Emulsions, Solutions, Liquids; Namely, Acidifiers, Alkalinizers, Alteratives, Analgesics, Anaesthetics, Anodynes, Antacids, Anthelmintics, Antiasthmatics, Antibiotics, Anticatabolites, Antiemetics, Antimalarials, Antineuritic Agents, Antipellagric Agents, Antipyretics, Antirachitic Agents, Antirheumatics, Antiscabious Agents, Antiscorbutic Agents, Antiseptics, Antispasmodics, Antisyphilitics, Astringents, Bactericides, Cardiac Stimulants, Cathartics, Chemotherapeutic Agents, Cholagogues, Circulatory Depressants, Counter-Irritants, Medicinal Dentifrices, Internal Deodorants, Diaphoretics, Dietary Supplements for the Prevention and Treatment of Metabolic Deficiencies, Digestants, Medicinal Disinfectants, Diuretics, Medicated Surgical Dressings, Ecbolics, Ammenagogues, Emollients, Expectorants, Medicinal Fungicides, Germicides, Glandular Stimulants, Gonococcides, Hormone Preparations, Hematinics, Hematopoietics, Hemorrhoidal Agents, Hemostatics, Hepatic Stimulants, Hypnotics, Immunotherapeutic Agents, Incontinence Agents, Inhalants, Keratolytic Agents, Laxatives, Liniments, Antiseptic and Surgical Lubricants, Nasal Medicaments, Ophthalmic Agents, Organotherapeutics, Rubefacients, Sclerosing Agents, Sedatives, Sprays (Nasal), Sprays (Throat), Stomachics, Tonics, Uricosuric Agents, Urinary Antiseptics, Urinary Acidifiers, Urinary Alkalinizers, Uterine Sedatives, Vasoconstrictors, Vasodilators, and Vitamin Preparations.

Claims use since November 1945.

Ser. No. 627,112. Neil Castaldo, Cranford, N. J. Filed Mar. 27, 1952.

CASTAFITOSE

For Germicidal and Fungicidal Composition for Human Use.

Claims use since Aug. 9, 1951.

Ser. No. 627,935. Farmcraft Feeds, Inc., Des Moines, Iowa. Filed Apr. 11, 1952.

VITA-SNAP

The word "Vita" is disclaimed apart from the mark as shown.

For Vitamin Mixture for Livestock and Poultry.

Claims use since Mar. 10, 1948.

Ser. No. 628,888. Chemisches Laboratorium am Heiligengeistfeld G. m. b. H., Hamburg, Germany. Filed Mar. 21, 1952.

DIPLOMYCIN

Applicant claims ownership of German Registration No. 604,555, dated Jan. 31, 1951.

For Medicament Obtained From Bacterial Extractions With Affinity to Cells in General, for the Purpose of Improving and Fostering the Metabolism of the Tissues and the Regeneration of Cells as Well as for the Purpose of Stimulation of the Resistance Factors of the Sick Human and Animal Body.

Ser. No. 628,889. Chemisches Laboratorium am Heiligengeistfeld G. m. b. H., Hamburg, Germany. Filed Mar. 21, 1952.

DIPLOMYCOL

Applicant claims ownership of German Registration No. 604,556, dated Jan. 31, 1951.

For Medicament Obtained From Bacterial Extractions With Affinity to Cells in General, for the Purpose of Improving and Fostering the Metabolism of the Tissues and the Regeneration of Cells as Well as for the Purpose of Stimulation of the Resistance Factors of the Sick Human and Animal Body.

Ser. No. 629,514. Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Filed May 10, 1952.

ESTRIFOL

For Conjugated Estrogenic Substances Derived From Pregnant Mare's Urine.

Claims use since Apr. 25, 1952.

Ser. No. 631,025. Schenley Laboratories, Inc., New York, N. Y. Filed June 10, 1952.

MARVIPIN

For Pharmaceutical Product Containing Polyvinyl Pyrrolidone in Combination With a Mercurial Diuretic.

Claims use since May 20, 1952.

Ser. No. 632,340. American Cyanamid Company, New York, N. Y. Filed July 10, 1952.

AUROVIM

For Feed Supplement.

Claims use since June 20, 1952.

Ser. No. 633,189. Abbott Laboratories, North Chicago, Ill. Filed July 29, 1952.

NEO-BUTAL

Applicant claims ownership of Registrations Nos. 175,380 and 285,003.

For Hypnotic Sedative Anesthetic Compound.

Claims use since July 10, 1952.

Ser. No. 636,499. Schering Corporation, Bloomfield, N. J. Filed Oct. 10, 1952.

MYCETELAN

For Antibiotic.

Claims use since Aug. 20, 1952.

Ser. No. 636,680. Chicago Pharmacal Company, Chicago, Ill. Filed Oct. 16, 1952.

BARBIVIS

For Medicinal Preparation in Pill Form Containing Phenobarbital and Used as a Sedative.

Claims use since Mar. 11, 1947.

Ser. No. 636,737. Ted Robinson, doing business under the trade name and style of Cardinal Products, Hudson Heights, N. J. Filed Oct. 16, 1952.

PENTAGORIC

For Preparation for Teething Pain.

Claims use since Feb. 19, 1951.

Ser. No. 636,861. Nutrition Research Laboratories, Inc., Chicago, Ill. Filed Oct. 18, 1952.

M-MINUS 5

Applicant claims ownership of Registration No. 553,166.

For Pharmaceutical Preparation for the Control of Pre-Menstrual Tension and for the Treatment of Dysmenorrhea.

Claims use since Feb. 1, 1952.

Ser. No 637,056. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

CARBO-RESIN

No property right is claimed in the word "Resin" and applicant disclaims any right to said portion of the trademark, apart from the mark as shown.

For Medicinal Preparation of Carbacrylamine Resins, a Mixture of Ion Exchange Resins Used in the Treatment and Control of Edema Due to Sodium Retention Associated With Such Diseases as Heart Failure, Cirrhosis of the Liver, and Hypertension.

Claims use since June 11, 1951.

Ser. No. 638,727. Eli Lilly and Company, Indianapolis, Ind. Filed Nov. 28, 1952.

PAVERIL PHOSPHATE

No property right is claimed in the word "Phosphate" and applicant disclaims any right to said portion of the trade-mark, apart from the mark as shown.

For Medicinal Preparation of 6,7 - Dimethoxy - 1 - (4'-Ethoxy-3'-Methoxy-Benzyl)-3-Methyl-Isoquinoline Used as a Muscle Relaxant in the Treatment of Various Cardiac Conditions.

Claims use since Nov. 5, 1951.

Ser. No. 638,729. Eli Lilly and Company, Indianapolis, Ind. Filed Nov. 28, 1952.

TAPAZOLE

For Medicinal Preparation of 1-Methyl-2-Mercaptoimidazole Used in the Treatment of Hyperthyroidism.

Claims use since Mar. 12, 1951.

CLASS 19

VEHICLES

Ser. No. 600,266. International Sport Motors, Ltd., Hoboken, N. J. Filed July 6, 1950.

BEE

For Motorcycles.

Claims use since Jan. 10, 1950.

Ser. No. 627,865. Consolidated Vultee Aircraft Corporation, San Diego, Calif. Filed Apr. 10, 1952.

CONVAIR - LINER

The word "Liner" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 511,937.

For Airplanes.

Claims use since September 1947.

Ser. No. 643,425. Jak Visor Company, Laurelton, N. Y. Filed Mar. 10, 1953.

"JAK"

For Visors for Automobiles.

Claims use since Feb. 13, 1953.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 625,049. Table Art Mat Corp., Brooklyn, N. Y. Filed Feb. 15, 1952.

TAMCOID

For Plastic-Coated Fabric in the Nature of Oiled Cloth.

Claims use since Jan. 1, 1928.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 550,679. The Electric Controller & Manufacturing Company, Cleveland, Ohio. Filed Feb. 27, 1948. (Sec. 2f.)

TAB WELD

The representation of the goods, apart from the mark "Tab Weld," is disclaimed.

For Electric Resistors.

Claims use since Jan. 22, 1948.

Ser. No. 601,174. Societe Quartz & Silice, Paris, France. Filed July 24, 1950.

MICAVER

Applicant claims ownership of French Registration No. 395,733, dated Sept. 2, 1946.

For Articles Made of Agglomerated Mica With a Vitreous Binder and Intended for Electric Insulation—Namely, Sockets for Brush Holders of Traction Motor, Insulators for Aerial Circuit Breakers, Fuse Bases, Insulating Bushing Outlets for Heating Equipment, Insulators for Traction Motor Resistors, Blowout Boxes for Electrical Cutouts, Cross Arms, Commutators, Bases and Sockets for Radio Tubes, Bases for Switches, Spark Plug Sleeves, Binding Posts, Connecting Blocks, Insulating Electrodes, and Supports for Resistors, Variable Condenser or Switch Equipment, and Variometers.

Ser. No. 612,077. International Telephone and Telegraph Corporation, New York, N. Y. Filed Mar. 31, 1951.

AN IT&T ASSOCIATE

Applicant claims ownership of Registrations Nos. 383,719, 392,899, and 403,689.

For Telephone Switching Systems and Apparatus Therefor—Namely, Automatic Central Office and Rural Systems, Regional Dialling Systems, Private Automatic Branch Exchanges, Private Automatic Exchanges and Manual Switchboards; Telephone Subscribers Station Apparatus; Electric Wave Signal Transmission Systems and Apparatus Therefor—Namely, Carrier Wave Systems and Equipment, Electric Pulse Signal Transmission Systems and Equipment, Voice Frequency Signalling Systems, Voice Frequency Repeaters, Loading Coils, Electric Wave Generators, Amplifiers, Modulators and Demodulators; Radio Broadcast and Television Transmitters; Point-to-Point Radio Transmitters and Receivers; Radio Antennas; Radio Frequency Transmission Lines; Cables and Wires for Electric Signalling Systems; Radio Broadcast and Television Receivers Alone or in Combination With Electric Phonographs; Electric Signalling, Alarm and Indication Systems and Apparatus Therefor; Facsimile Transmission Systems and Equipment; Record Communication Apparatus—Namely, Telegraph Printers, Perforators and Reperforators; Selenium Rectifiers and Rectifying Equipment Including Power Supplies, Voltage Regulators and Cathodic Protection Devices; Electric Power Plant Assemblies; Vacuum and Gas Tubes; Cathode Ray Picture Tubes; Electric Transformers, Coils, and Filters.

Claims use since Apr. 17, 1947.

Ser. No. 613,103. S & C Electric Company, Chicago, Ill. Filed Apr. 26, 1951.

S&C

Applicant claims ownership of Registrations Nos. 98,898 and 228,718.

For Electrical Fuses, Fuse Mountings, Bus Supports, Switches, Fusible Cut-Outs, and Metal Clad Switch Gear for Switching Centers, Primaries of Unit Sub-Stations and Service Entrance Stations.

Claims use since Apr. 21, 1910.

Ser. No. 614,804. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed June 6, 1951.

MAGNAFLO

For Electromagnetic Vibrating Feeders and Electrical Power Units Comprising Transformers, Rectifiers, and Control Switches.

Claims use since Oct. 29, 1946.

Ser. No. 620,983. The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Nov. 7, 1951. (Sec. 2f.)

YALE

Applicant claims ownership of Registrations Nos. 63,654, 74,425, and others.

For Battery Chargers.

Claims use since July 25, 1951.

Ser. No. 628,557. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.

Applicant claims ownership of Registrations Nos. 12,396, 20,065, and others.

For Electronic Bonding Machines for Operation Upon Thermoplastic Dielectric Materials, Vacuum Tube Oscillators for Use With Electronic Bonding Machines, Electro-Mechanical Drives, Electric Transmitters, Electric Lighting Fixtures, Electric Motors, Electric Motor Controllers for Regulating the Starting, Stopping, Reversing and Speed of Electric Motors, Electric Vacuum Cleaners, and Parts Therefor.

Claims use since 1916.

Ser. No. 632,089. Jersey Specialty Company, Inc., Little Falls, N. J. Filed July 2, 1952.

J.S.C.

For Wire Products—Namely, Insulated Copper Wire, Television Lead-In Wire, and Lamp Cord.

Claims use since on or about June 15, 1947.

Ser. No. 633,883. Henry W. Shaw, doing business as Sound-Craft Systems, Pittsburgh, Pa. Filed Aug. 13, 1952.

PORTAPAGE

For Portable Electric Paging System Consisting of a Megaphone, Battery, Battery Case, Microphone, Cable, Shoulder Strap, and Mobile Hold-Down Bracket.

Claims use since Apr. 2, 1951.

Ser. No. 634,112. Precision Welder Manufacturing Co., Chicago, Ill. Filed Aug. 18, 1952.



Applicant disclaims exclusive right to use of "Shop" apart from the mark shown on the drawing.

For Electric Arc Welders, Cables, and Cable Clamps, for Use in Welding.

Claims use since January 1952.

Ser. No. 636,157. Toledo Scale Company, Flemington, N. J., and Toledo, Ohio. Filed Oct. 3, 1952.



Applicant claims ownership of Registration No. 518,887.

For Kitchen Machines—Namely, Electrically Operated Dishwashers, Vegetable Peelers, Vegetable Cutters, and Cutlery Burnishers.

Claims use since on or about Dec. 1, 1950.

Ser. No. 637,645. Columbia Broadcasting System, Inc., doing business as Hytron Radio & Electronics Co., New York, N. Y., and Danvers, Mass. Filed Nov. 5, 1952.



For Electronic Tubes.

Claims use since Nov. 26, 1951.

Ser. No. 637,786. New York Technical Institute, Cincinnati, Ohio. Filed Nov. 7, 1952.

PAGE-ETTE

For Miniature Receivers.

Claims use since Mar. 4, 1952.

Ser. No. 637,082. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 13, 1952. (Sec. 2f.)

SALWEN

For Electrical Apparatus for Generating Formaldehyde Vapor From Formaldehyde Pastils To Effect Disinfection of the Contents of Surgical Instrument Cabinets.

Claims use since 1935.

Ser. No. 638,174. Westinghouse Electric Corporation, East Pittsburgh, Pa., and Elmira, N. Y. Filed Nov. 15, 1952.

RELIATRON

For Electronic Tubes.

Claims use since on or about Sept. 22, 1952.

Ser. No. 638,299. General Electric Company, Schenectady, N. Y. Filed Nov. 19, 1952.

PreenX

For Insulated Electric Cord.

Claims use since February 1949.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 590,654. Philip P. Dalton, Tampa, Fla. Filed Jan. 11, 1950. (Sec. 2f.)

DALTON SPECIAL

For Artificial Fishing Bait.

Claims use since July 1938.

Ser. No. 598,882. The Brunswick-Balke-Collender Company, Chicago, Ill. Filed June 10, 1950.



Applicant claims ownership of Registration No. 399,322.

For Bowling Alleys and Parts Thereof; Pins, Balls, Alley Pit Mats, Ball Returns, Ball Stops, Terminal Posts and Newel Posts for Bowling Ball Racks, Ball Storage Racks, Ball Bags, and Hand Chalk.

Claims use since April 1944, as to the mark shown; and since Mar. 8, 1940, in a similar form.

Ser. No. 627,833. William T. Previdi, Allendale, N. J. Filed Apr. 9, 1952.



The illustration of the man on the drawing is fanciful. No claim is made to the words "Ball'n Tee" or the representation of the goods apart from the mark shown on the drawing.

For Golfers' Equipment Consisting of Pocket Attachment for Garment Belts in Which Golf Balls and Tees May Be Stored, Ready for Use by the Player.

Claims use since April 1951.

Ser. No. 628,558. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



Applicant claims ownership of Registrations Nos. 12,396, 20,065, and others.

For Toy Sewing Machines.

Claims use since 1910.

Ser. No. 636,245. National Expert Bait Co., Minneapolis, Minn. Filed Oct. 6, 1952.

NEBCO

For Artificial Fish Lure.

Claims use since January 1948.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 567,391. Byron Jackson Co., Inc. of Indiana, Lawrenceburg, Ind., assignee of A. D. Cook Incorporated. Filed Oct. 21, 1948. (Sec. 2f as to "Cook.")



Applicant claims ownership of Registrations Nos. 273,361, 358,987, and 226,893.

For Vane Type, Vertical Centrifugal Pumps, and Parts Thereof.

Claims use since May 1, 1948, in its entirety; and since Feb. 1, 1924, as to "Cook."

Ser. No. 567,499. Carrier Engineering Company Limited, London, England. Filed Oct. 18, 1950.

ROTODIP

Applicant claims ownership of British Registration No. B. 663,663, dated Sept. 1, 1948, on an application filed Oct. 28, 1947.

For Machine for Cleaning, Rust-Proofing, Priming, and Painting Sheet Metal Articles Such as Vehicle Bodies and Chassis by Means of Spraying, Dipping, and/or Flow Coating.

Ser. No. 588,069. Warren Tool Corporation, Howland, Ohio. Filed Nov. 18, 1949. (Sec. 2f.)



The representation of the goods is disclaimed apart from the mark.

For Hand Tools, Particularly Heavy Hand Tools Such as Sledges, Hammers, Mauls, Picks, Mattocks, Hoes, Bars, Wedges, Blacksmith Tools, Tongs, Railroad Track Tools, Adzes, Punches, Wrenches, and the Like and Parts Therefor.

Claims use since February 1947.

Ser. No. 602,897. Estarta y Ecenarro, S. A., Barrio Olaso, Guipuzcoa, Spain. Filed Aug. 29, 1950.



The drawing is lined for red and black. No claim is made to the representation of the goods. Applicant claims ownership of Spanish Registration No. 150,782, dated Mar. 15, 1944.

For Sewing Machines, Parts Thereof, and Attachments therefor.

Ser. No. 607,429. John Babcock Howard, trustee of Boston Vacuum Trust, Marblehead, Mass. Filed Dec. 8, 1950.

JET-VAC

The term "Jet" is disclaimed apart from the mark as shown.

For Conduit Having a Valve or Orifice Plate Therein Interposed Between the Crankcase and the Intake Manifold of an Internal Combustion Engine To Control the Pressure in the Crankcase.

Claims use since Apr. 9, 1949.

Ser. No. 613,084. Precision Diamond Products, Ltd., London and Fulham, London, England. Filed Apr. 24, 1951.

HABIT

For Abrasive Wheel Dressers and Parts Thereof.

Claims use since May 12, 1950, in Great Britain; and use in commerce between Great Britain and the United States on or about Dec. 1, 1950.

Ser. No. 620,241. Victor Balata & Textile Belting Co., Easton, Pa., and New York, N. Y. Filed Oct. 19, 1951. (Sec. 2f.)

WORKWELL

Applicant claims ownership of Registration No. 206,184.
For Sifter Brushes Made of Pieces of Belting, for Use as Parts of Flour Sifting Machinery.
Claims use since Oct. 6, 1930.

Ser. No. 620,333. Arvin Electric Limited, Southend-on-Sea, England. Filed Oct. 23, 1951.

FERNBROOK

Priority under sec. 44(d). British application filed Apr. 23, 1951, Reg. No. B. 697,681, dated Apr. 23, 1951.
For Dry Shavers, Safety Razors, Straight Razors, and Hair Clippers.

Ser. No. 622,242. The Lodge and Shipley Company, Cincinnati, Ohio. Filed Dec. 7, 1951.

COPYMATIC

Applicant claims ownership of Registration No. 182,387.
For Machine Tools—Namely, Lathes.
Claims use since Dec. 1, 1948.

Ser. No. 622,841. Metalwash Machinery Company, Elizabeth, N. J. Filed Dec. 26, 1951. (Sec. 2f.)

METALWASH

Applicant claims ownership of Registration No. 276,572.
For Machines for Cleaning and Drying the Surfaces of Solid Material Goods—Namely, Baking Pan Washing Machines, Bakery Rack Washers, Commissary Washing Machines, Potwashers, Animal Cage Washers, Industrial Washing and Rinsing Machines, Metal Descaling and Pickling Machines, and Degreasing Machines.
Claims use since March 1943.

Ser. No. 627,069. Kinney Manufacturing Company, Jamaica Plain, Boston, Mass. Filed Mar. 26, 1952.

HELIQUAD (HQ)

For Rotary Liquid Pumps.
Claims use since Jan. 1, 1925.

Ser. No. 628,665. William J. Babcock, doing business under the name and style Babcock & Co., Oakland, Calif. Filed Apr. 25, 1952.

Babco

For Right Angle Drive Attachments for Power Drills, Flexible Disk Sanders and Polisher Attachments for Power Drills, Straight and Angle Line Speed Reducer Drive Attachments for Power Drills.
Claims use since Aug. 31, 1949.

Ser. No. 636,037. Southern Belting Company, Atlanta, Ga. Filed Oct. 1, 1952.

SOBECO

Applicant claims ownership of Registration No. 260,455.
For Leather and Comparable Straps for Textile Machinery, the Foregoing Being Finished Articles.
Claims use since Nov. 5, 1928.

Ser. No. 638,111. The Union Fork and Hoe Company, Columbus, Ohio. Filed Nov. 14, 1952.

GREEN THUMB

Applicant claims ownership of Registration No. 544,013.
For Hand Operated Tools—Namely, Cultivators, Vegetation Cutters, Tool Handles, Manure and Fertilizer Drags, Potato Drags, Stone Drags, Lawn and Turf Edgers, Forks, Hoes, Rakes, Lawn Brooms and Combs, Hooks, Pokers, Shovels, Spades, Seedling Setters, Scoops, Scrapers, Blade-Type Sidewalk Cleaners, Sod Lifters, Trowels, Weeders, Grass Whips, and Grass Hooks.
Claims use since Apr. 29, 1949.

Ser. No. 638,213. Pacific Machine Mfg. Co., Portland, Oreg. Filed Nov. 17, 1952.

JOLLYHOE

For Garden Cultivating Tractors.
Claims use since Sept. 17, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 626,663. Falco Products Co., Philadelphia, Pa. Filed Mar. 19, 1952.

RANCH DRYER

The applicant disclaims the word "Dryer" alone and apart from the mark as shown.
For Clothes Drying Racks.
Claims use since Nov. 15, 1951.

Ser. No. 626,734. Falco Products Co., Philadelphia, Pa. Filed Mar. 20, 1952.

falco RANCH DRYER

The applicant disclaims the word "Dryer" alone and apart from the mark as shown. Applicant claims ownership of Registration No. 548,987.
For Clothes Drying Racks.
Claims use since Nov. 15, 1951.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 612,938. Testrite Instrument Co., Inc., New York, N. Y. Filed Apr. 20, 1951. (Sec. 2f.)

Fotolite

Applicant claims ownership of Registration No. 277,844.
For Metal Reflectors for Photographic Lamps.
Claims use since 1926.

Ser. No. 618,630. Eastern Electric, Inc., New Bedford, Mass. Filed Sept. 11, 1951.

HEAT-NERVE

The word "Heat" is disclaimed apart from the mark shown.
For Thermostatically Controlled Instruments Responsive to Sudden Temperature Changes Such as Fire Detectors and Controls for Heating and Cooling Units.
Claims use since Feb. 21, 1951.

Ser. No. 628,507. Fred I. Raymond, Chicago, Ill. Filed Apr. 22, 1952. (Sec. 2f as to "Duo.")

DUO-STAT

Applicant claims ownership of Registration No. 254,545.
For Thermostatically-Controlled, Pressure-Operated Instruments for Temperature Regulation.
Claims use since Apr. 18, 1928.

Ser. No. 630,999. Ercona Camera Corporation, New York, N. Y. Filed June 10, 1952.

Jlitar

For Photographic Lenses.
Claims use since Sept. 29, 1950.

Ser. No. 635,658. Lloyd Meter Manufacturing Company, Chicago, Ill. Filed Sept. 23, 1952.

meter-all

No claim is made to the word "Meter" apart from the mark as a whole.
For Coin Operated Time Measuring and Time Controlling Switches for Electrical Apparatus and Parts Thereof.
Claims use since April 1949.

Ser. No. 635,798. Vitro Corporation of America, New York, N. Y. Filed Sept. 25, 1952.

MICROSENSOR

For Gas-Analysing Apparatus for Continuously and Automatically Monitoring the Contamination of Air or Other Medium to Which Said Apparatus Is Exposed.
Claims use since July 30, 1952.

Ser. No. 635,843. National Spectrographic Laboratories, Inc., Cleveland, Ohio. Filed Sept. 26, 1952.

SPEC-POWER

The word "Power" is disclaimed apart from the mark shown.
For Excitation Apparatus for Spectrographs.
Claims use since Sept. 9, 1948.

Ser. No. 637,899. Edmund J. Wudel, doing business under the fictitious name and style of Edmund J. Wudel Mfg. Co., Los Angeles, Calif. Filed Nov. 10, 1952.

VIXEN

For Spark Plug Testing Machines and Combination Spark Plug Cleaning and Testing Machines.
Claims use since February 1946.

Ser. No. 637,969. Wilhelm Witt, doing business as Ihoca Camera, Hamburg, Germany. Filed Nov. 12, 1952.

Jlitar

For Camera Lenses.
Claims use since July 28, 1946.

Ser. No. 638,142. The Haloid Company, Rochester, N. Y. Filed Nov. 15, 1952.

XEROX

For Electrophotographic Copying Machines, Cameras, Plates Used in Connection With Electrophotographic Copying Machines; Transfer Paper Used for Making Photographs or for Reproducing Photographs, Maps, Drawings, and Other Records With Electrophotographic Copying Machines; and Fuser Units Used for Fusing Powder Images Onto Paper in Connection With Electrophotographic Copying Machines.
Claims use since June 22, 1949.

Ser. No. 638,409. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Nov. 21, 1952.

Ektagraph

For Sensitized Photographic Film.
Claims use since Nov. 5, 1952.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 627,390. A. Hirsch Company, Chicago, Ill. Filed Apr. 1, 1952.

TreasureMates

The representation of the jewels is disclaimed apart from the mark as shown.
For Watches.
Claims use since Mar. 20, 1952.

Ser. No. 634,665. Tavannes Watch Co., Tavannes, Switzerland. Filed Aug. 29, 1952.

AMIC

Applicant claims ownership of Swiss Registration No. 142,366, dated May 23, 1952.
For Watches, Parts of Watches, Alarm Clocks.

Ser. No. 634,783. The Gruen Watch Company, Cincinnati, Ohio. Filed Sept. 3, 1952.

EMBASSY

For Watches, Watch Cases, and Watch Movements.
Claims use since 1931.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 604,502. The R. Wallace & Sons Manfg. Co., Wallingford, Conn. Filed Oct. 5, 1950. (Sec. 2f.)

MELFORD

For Silver Plated Hollowware.
Claims use since Jan. 1, 1935.

Ser. No. 631,422. Indestructible Pearl Bead Makers, Inc., New York, N. Y. Filed June 19, 1952.

Lady Michele

It is believed the trade-mark indicates no particular living individual.
For Artificial Pearls.
Claims use since 1947.

Ser. No. 633,130. Valerie Jewelry, Inc., New York, N. Y. Filed July 26, 1952.

Monica

For Pearls and Costume Jewelry—Namely, Necklaces, Earrings, Bracelets.
Claims use since April 1952.

Ser. No. 639,641. Jacoby-Bender, Inc., New York, N. Y. Filed Dec. 17, 1952.

COLUMBUS CIRCLE

For Watch Bracelets Sold Separately From the Watches.
Claims use since Jan. 7, 1952.

Ser. No. 639,644. Jacoby-Bender, Inc., New York, N. Y. Filed Dec. 17, 1952.

EDGEWOOD

For Watch Bracelets Sold Separately From the Watches.
Claims use since Jan. 7, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 623,080. Suftko Tool and Die Co., Chicago, Ill. Filed Jan. 2, 1952.

DYREN

The mark consists of the letter "D" reversed and followed by the letters "Yren."
For Brushes Used for Dyeing the Hair With Liquid Dye and for Similar Dye Uses.
Claims use since Dec. 1, 1951.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 609,235. Mary Ellen Duffy, Miami, Fla. Filed Jan. 25, 1951.

CONCHETTE

For Ceramic Trays and Urns.
Claims use since Aug. 1, 1950.

Ser. No. 620,038. C. W. Stuart & Company, Newark, N. Y. Filed Oct. 16, 1951.



Without surrendering any of the common law rights thereto, applicant disclaims the word "Hanover" apart from the mark as shown.
For China Dishes.
Claims use since Apr. 2, 1951.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 546,145. International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros. Filed Aug. 13, 1947. (Sec. 2f.)

Fireside

Applicant claims ownership of Registration No. 365,175.
For Sofas, Chairs of the Furniture Type, and Living-Room Suites.
Claims use since Aug. 1, 1936.

Ser. No. 628,372. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Cabinets, Stools, Chairs, Tables, and Card Tables.
Claims use since 1870.

Ser. No. 630,859. Spin-Dex, Inc., Skokie, Ill. Filed June 6, 1952.



The representation of the goods and the words "The Rotary File," "Business Efficiency Aids, Skokie, Illinois," are disclaimed apart from the mark as shown.
For Rotary Card Files.
Claims use since November 1951.

Ser. No. 632,419. Drexel Furniture Company, Drexel, N. C. Filed July 11, 1952.

TEA-MOBILE

No exclusive claim is made to the word "Tea" apart from the mark as shown in the drawing.
For Serving Cart.
Claims use since December 1951.

Ser. No. 633,709. Burn-Strauss, Inc., Los Angeles, Calif. Filed Aug. 11, 1952.

Stand — by

The term "Stand," apart from the mark as shown, is disclaimed.
For Supports in the Form of Tripods, the Legs of Which Are Made of Metal and Adapted To Support a Bowl, a Tray, or the Like.
Claims use since June 20, 1952.

Ser. No. 633,722. Drexel Furniture Company, Drexel, N. C. Filed Aug. 11, 1952.

CHATHAM COURT

No exclusive claim is made to the word "Chatham" apart from the mark as shown in the drawing. Applicant claims owoership of Registration No. 507,489.
For Bedroom and Dining Room Furniture—Namely, Dressers, Mirrors, Chests, Beds, Tables, Buffets, Corner Chinas, Servers, and Hutch Decks.
Claims use since Jan. 10, 1952.

Ser. No. 635,007. Truman Boyles Mattress Company, Alexandria, Va. Filed Sept. 8, 1952.

Med-I-Coil

The word "Coil" is disclaimed apart from the mark.
For Mattresses and Box Springs.
Claims use since Mar. 1, 1951.

Ser. No. 637,890. Slumberland Products Co., Waltham, Mass. Filed Nov. 10, 1952.

Slumberpedic

For Mattresses, Box Springs, and Headboard Bed Combinations.
Claims use since June 1952.

Ser. No. 637,891. Slumberland Products Co., Waltham, Mass. Filed Nov. 10, 1952.

Statesman

For Mattresses, Box Springs, and Headboard Bed Combinations.
Claims use since June 1952.

Ser. No. 638,747. Victor Wood Products Co., Bangor, Mich. Filed Nov. 28, 1952.

"Wife-Savers"

For Hollywood Bed Legs.
Claims use since on or about July 7, 1952.

Ser. No. 638,900. Comfort Spring Corporation, Baltimore, Md. Filed Dec. 3, 1952.

Body Beautiful

For Mattresses.
Claims use since Aug. 25, 1952.

Ser. No. 639,444. Simmons Company, New York, N. Y. Filed Dec. 13, 1952. (Sec. 2f.)

NEW YORKER

For Mattresses and Box Springs.
Claims use since Oct. 16, 1947.

Ser. No. 639,464. Carolina Metal Products, Inc., Charlotte, N. C. Filed Dec. 15, 1952.

CAMPCO

Applicant claims ownership of Registration No. 532,103.
For Folding Chairs.
Claims use since Apr. 7, 1952.

CLASS 33

GLASSWARE

Ser. No. 626,874. Globe Auto Glass Co., Chicago, Ill. Filed Mar. 22, 1952.

GLOBEX

Applicant claims ownership of Registrations Nos. 334,412 and 505,743.
For Safety Glass.
Claims use since Mar. 3, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 590,525. Smith's Heating, Inc., Kinston, N. C. Filed Jan. 7, 1950.



The words "Where Tobacco Is Grown Smith's Are Known," "Smith's Curers" and the representation of a heater is disclaimed. The drawing is lined for the colors yellow and blue.
For Oil-Burning Heaters for Tobacco Curing Systems.
Claims use since Dec. 20, 1949.

Ser. No. 614,888. Alexander Milburn, Inc., Baltimore, Md. Filed June 7, 1951. (Sec. 2f.)

MILBURN

Applicant claims ownership of Registration No. 283,079.
For Gas Cutting and Welding Apparatus—Namely, Welding and Cutting Torches, Tips, Torch Extensions, Cutting Attachments, Torch Lighters, Acetylene Generators, Oxygen Manifolds, Carbide Lights, and Parts Therefor.
Claims use since Oct. 1, 1907.

Ser. No. 631,224. The Tappan Stove Company, Mansfield, Ohio. Filed June 14, 1952.



The trade-mark consists of a miniature statue of a fanciful person dressed in a chef's cap and apron and placed directly upon the goods or on a display stand directly associated with the goods. Applicant claims ownership of Registrations Nos. 510,406 and 518,997.
For Gas Ranges and Stoves.
Claims use since on or about July 1, 1937.

Ser. No. 635,113. Aladdin Laboratories, Inc., Minneapolis, Minn. Filed Sept. 11, 1952.

G.I. Jou-é

The expression "G. I." is disclaimed apart from the mark. Applicant claims ownership of Registration No. 529,119.
For Liquid Fuel Catalytic Type Hand Warmers.
Claims use since June 6, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 608,700. The Dayton Rubber Company, Dayton, Ohio. Filed Jan. 12, 1951. (Sec. 2f as to "Dayton.")



Applicant hereby disclaims the word "Premium" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 366,609, 354,410, and others.
For Rubber and Fabric Vehicle Tires.
Claims use since June 23, 1930, on the mark as shown; and since 1905 on the word "Dayton."

Ser. No. 617,497. Hastings Manufacturing Company, Hastings, Mich. Filed Aug. 9, 1951. (Sec. 2f.)

CHROM-TEST

For Piston Rings.
Claims use since Aug. 1, 1947.

Ser. No. 623,703. Anchor Rubber Company, Dayton, Ohio, assignor to The Anchor Rubber Company, Dayton, Ohio, a corporation of Ohio. Filed Jan. 17, 1952.

ANCHORFLEX

For Belting and Hose Made of Rubber.
Claims use since Nov. 8, 1949.

Ser. No. 627,383. The Dayton Rubber Company, Dayton, Ohio. Filed Apr. 1, 1952.

Town and Country

For Rubber Vehicle Tires.
Claims use since in or about December 1951.

Ser. No. 628,950. Manheim Manufacturing & Belting Company, Manheim, Pa. Filed Apr. 30, 1952. (Sec. 2f.)

VEELINK

Applicant claims ownership of Registrations Nos. 415,830 and 558,358.
For Power Transmission Belting.
Claims use since June 21, 1944.

Ser. No. 629,140. Boston Woven Hose and Rubber Company, Cambridge, Mass. Filed May 2, 1952.



No claim is made to the exclusive use of the words "Nu" and "Clear" apart from the mark as shown.
For Plastic Garden Hose.
Claims use since Apr. 17, 1952.

Ser. No. 629,503. The Gates Rubber Company, Denver, Colo. Filed May 12, 1952.

VIBRAFLEX

The word "Flex" is disclaimed apart from the mark as shown.
For Radiator Hose, for Use on Motor Vehicles.
Claims use since Sept. 21, 1949.

Ser. No. 630,672. The Firestone Tire & Rubber Company, Akron, Ohio. Filed June 3, 1952.

TOWN AND COUNTRY

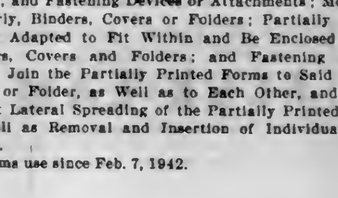
For Vehicle Tires.
Claims use since on or about Mar. 11, 1952.

Ser. No. 642,499. United States Rubber Company, New York, N. Y. Filed Feb. 19, 1953.

PARALINE

For Hose Made of Rubber or Rubber and Fabric.
Claims use since January 1953.

Ser. No. 642,649. H. D. Hodson Manufacturing Company, Chicago, Ill. Filed Feb. 24, 1953.



Although the drawing is lined to show the colors red and yellow, no specific color is claimed as a feature of the mark.
For Spray Hose, Valve and Plunger Leathers.
Claims use since 1925.

Ser. No. 642,724. The American Pulley Company, Philadelphia, Pa. Filed Feb. 25, 1953.

GRIPLEX

Applicant claims ownership of Registration No. 380,386.
For Rubber Lagging To Be Applied to the Operating Surfaces of Pulleys To Give a Higher Coefficient of Friction Between a Pulley and Its Belt Drive.
Claims use since Jan. 29, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 601,723. Charles R. Hadley Company, Los Angeles, Calif. Filed Aug. 4, 1950.

UNISPRED

For Binders, Covers or Folders, Partially Printed Forms, and Fastening Devices or Attachments; More Particularly, Binders, Covers or Folders; Partially Printed Forms Adapted to Fit Within and Be Enclosed by the Binders, Covers and Folders; and Fastening Devices Which Join the Partially Printed Forms to Said Binder, Cover or Folder, as Well as to Each Other, and Which Permit Lateral Spreading of the Partially Printed Forms as Well as Removal and Insertion of Individual Form Sheets.
Claims use since Feb. 7, 1942.

Ser. No. 631,624. Karl Klaus, doing business as Karl Klaus Company, Glendale, Calif. Filed June 23, 1952.



The name "Karl Klaus" appearing on the drawing is that of the applicant. The words "Bank" and Kommerce" are hereby disclaimed apart from the mark as shown on the drawing.

For Partially Printed Forms for Business, Financial, Commercial, and Industrial Use.

Claims use since Jan. 1, 1952.

Ser. No. 635,003. Sutherland Paper Company, Kalamazoo, Mich. Filed Sept. 8, 1952.

Wonderfold

For Shirt and Collar Protectors of Cardboard for Use by Manufacturers and Laundries for Holding Shirts in Folded Condition.

Claims use since Dec. 6, 1945.

Ser. No. 636,219. Eagle Pencil Company, New York, N. Y. Filed Oct. 6, 1952.

Coquette

For Wood Encased Pencils.

Claims use since May 27, 1930.

Ser. No. 636,221. Eagle Pencil Company, New York, N. Y. Filed Oct. 6, 1952.

TEXMARK

For Wood Encased Pencils.

Claims use since Sept. 7, 1950.

Ser. No. 636,233. Hoffmaster Paper Company, Inc., Oshkosh, Wis. Filed Oct. 6, 1952.

Cellutex "400"

Applicant claims ownership of Registration No. 520,592.

For Paper Napkins.

Claims use since Feb. 13, 1952.

Ser. No. 636,840. Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Filed Oct. 18, 1952.

Consolith

For Coated Paper for Printing Purposes.

Claims use since Sept. 1, 1952.

Ser. No. 637,364. The Cromwell Paper Company, Chicago, Ill. Filed Oct. 30, 1952.

FLEX-LAM

For Embossed Laminated Waterproof Paper Reinforced With Asphalt and Glass Fibre for Use in Packaging.

Claims use since Sept. 12, 1952.

Ser. No. 637,553. Sterling Pulp & Paper Company, Eau Clair, Wis. Filed Nov. 3, 1952.

CLINIC

For Paper Napkins, Paper Towels, Toilet Tissue, Waxed Paper, and Paper Facial Tissues.

Claims use since Mar. 26, 1952.

Ser. No. 637,613. The Rieser Company, Inc., New York, N. Y. Filed Nov. 4, 1952.

VENIDA

Applicant claims ownership of Registration No. 352,238.

For Cleansing Tissues and Toilet Tissues.

Claims use since Aug. 15, 1924.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 613,710. The Hearst Corporation, New York, N. Y. Filed May 10, 1951.



The name "Chic Young" identifies a particular living individual, the written consent of whom is filed herein. The word "Comics" is disclaimed apart from its use as part of the trade-mark shown.

For Cartoon or Comic Magazine Published Monthly or at Other Intervals.

Claims use since July 5, 1950.

CLASS 39

CLOTHING

Ser. No. 534,856. Austin Reed Limited, London, England. Filed Aug. 12, 1947.

AUSTIN REED

The name "Austin Reed" is the name of the founder of the firm, written consent being given.

For Dress Clothing—Namely, Full Dress Suits and Tuxedos, White Dress Vests; Flannel Trousers; Corduroy Trousers; Flannel Blazers; Linen Trousers; Dressing Gowns; Bath Gowns; Bed Jackets; House Jackets; Smoking Jackets; Lounge Suits; Overcoats; Raincoats; Sports Suits; Sports Jackets; Fancy Cloth Vests; Flannel and Tweed Plus-Fours; Jodhpurs, Riding Jackets; Riding Breeches; Shooting Jackets; Neckties; Gloves Made of Leather, and Fabric or Combinations Thereof; Collars; Shirts; Socks; Hose; Mufflers; Wraps; Pullovers; Cardigans; Golf Jackets in Gabardine, Leather and Wool; Sheepskin Vests; Knitted Vests; Suede Pullovers; Sweaters; Water-Proof Golf Trousers; Underwear With and Without Sleeves; Pajamas; Nightshirts; Boots and Shoes of Every Description; Spats; Leggings; Slippers; Hats and Caps; Bathing Suits; Beach Bathing Shorts; All the Apparel Listed Being for Use by Men.

Claims use since 1926; and first used in commerce between the United States and the United Kingdom of Great Britain and Northern Ireland since Dec. 31, 1926.

Ser. No. 542,460. Fox-Knapp Manufacturing Co., New York, N. Y. Filed Nov. 26, 1947. (Sec. 2f.)

MONTEREY

Applicant claims ownership of Registration No. 366,995.

For Men's and Women's Sportswear—Namely, Sport Slacks, Sport Coats, and Ensembles Thereof.

Claims use since Dec. 1, 1935.

Ser. No. 564,251. Norman Hartnell Limited, London, England. Filed Aug. 18, 1948.

NORMAN HARTNELL

"Norman Hartnell" is the managing director of the applicant firm and consent to the registration of his name is of record.

For Ladies' Dresses, Coats, Suits, Capes, Stoles, Muffs, Scarves, and Ties Made of Various Materials Such as Fabrics, Cloth and Fur or Trimmed With Fur.

Claims use since Mar. 8, 1935.

Ser. No. 604,524. David Dubin Co. Inc., New York, N. Y. Filed Oct. 6, 1950.

Betty Wales

The name "Betty Wales" is that of a particular living individual whose consent to register is made of record.

For Bridal Hats and Bridal Veils.

Claims use since June 1950.

Ser. No. 607,216. Chicago Tailoring Co., Chicago, Ill. Filed Dec. 2, 1950.



The pictorial representation of the knight shown on the horse is fanciful.

For Men's Clothing—Namely, Men's Made-to-Measure Suits, Coats, Vests, Trousers, and Overcoats; and Ladies' Made-to-Measure Suits and Topcoats.

Claims use since in or about 1922.

Ser. No. 608,109. Georgia Shoe Mfg. Co., Flowery Branch, Ga. Filed Dec. 27, 1950. (Sec. 2f.)



The picture of the man appearing on the drawing is fanciful., Applicant claims ownership of Registration No. 503,811.

For Leather Boots and Shoes for Men and Boys.

Claims use since February 1945.

Ser. No. 618,332. Joseph Altman, San Francisco, Calif. Filed Sept. 4, 1951.

CAL-CREST

For Men's and Young Men's Suits, Top-Coats, Sport Coats, Slacks, and Tuxedos.

Claims use since July 9, 1951.

Ser. No. 620,039. Hat Corporation of America, Norwalk, Conn. Filed Oct. 16, 1951. (Sec. 2f.)



Applicant does not claim the exclusive right to the use of the words "Felt" and "Fifth Avenue, New York." Applicant claims ownership of Registrations Nos. 66,857, 176,014, and others.

For Headwear for Men—Namely, Felt Hats, Straw Hats, and Caps.

Claims use since about 1941.

Ser. No. 621,863. California Manufacturing Co., St. Louis, Mo. Filed Nov. 30, 1951.



The representation of a jacket is disclaimed.

For Men's, Boys' and Juvenile Coats, Jackets, Raincoats, Shirts, and Trousers.

Claims use since Jan. 3, 1951.

Ser. No. 629,438. Plastica, Ltd., Los Angeles, Calif. Filed May 9, 1952.

dux

For Men's, Women's, and Children's Plastic Overshoes.

Claims use since Mar. 3, 1952.

Ser. No. 629,897. Jantzen Knitting Mills Inc., Portland, Oreg. Filed May 19, 1952.

zip-fit

Applicant disclaims the word "Fit" apart from the mark as shown in the drawing.
For Swimming Trunks, Outer Shorts Adapted for Swimming, and Swimming Suits.
Claims use since Sept. 12, 1951.

Ser. No. 631,647. Bedford Shirt Corp., New York, N. Y. Filed June 24, 1952.

LURELLA

For Men's and Boys' Dress Shirts and Sport Shirts.
Claims use since May 8, 1952.

Ser. No. 632,794. Mutation Mink Breeders Association, Elkhorn, Wis. Filed July 19, 1952.

ROYAL PASTEL

No claim is made for the word "Pastel" apart from the entire combination.
For Fur Garments—Namely, Coats, Capes, Stoles, Jackets, and Neck Pieces.
Claims use since Apr. 9, 1946.

Ser. No. 632,856. Summit Mills Corporation, New York, N. Y. July 21, 1952.



For Sport Shirts for Young Men and Boys.
Claims use since June 11, 1952.

Ser. No. 633,209. Sam Neger, doing business under the trade name of the Elizabeth Hat Company, New York, N. Y. Filed July 29, 1952.

Hats by Eddi

Registration rights to the word "Hats" are not claimed.
For Hats, Bonnets, and Scarfs for Misses and Ladies.
Claims use since June 20, 1952.

Ser. No. 633,767. Moe Greenwald, New York, N. Y. Filed Aug. 12, 1952.

THE MEX

For Caps for Men, Women, and Children Made of Palm and Straw.
Claims use since Mar. 10, 1952.

Ser. No. 634,774. The Britanny Hat Co. Inc., New York, N. Y. Filed Sept. 3, 1952.

FIT-O-MATIC

Applicant disclaims the word "Fit" apart from the mark as shown.
For Men's and Boys' Hats.
Claims use since Aug. 7, 1952.

Ser. No. 636,001. Dainty Maid Shoe Company, Inc., Haverhill, Mass. Filed Oct. 1, 1952.

Town Aires

For Women's Shoes.
Claims use since Aug. 13, 1952.

Ser. No. 636,366. Lebow Bros. Inc., Baltimore, Md. Filed Oct. 8, 1952.

"Aquatized"

For Men's and Boys' Suits, Coats, Slacks, Sport Jackets, Top Coats, and Overcoats.
Claims use since Aug. 22, 1952.

Ser. No. 636,619. Wembley, Inc., New Orleans, La. Filed Oct. 14, 1952.



The drawing is lined for the color yellow but no claim is made to the color. Applicant claims ownership of Registrations Nos. 378,015, 390,628, and others.
For men's Neckties and Scarfs.
Claims use since July 1952.

Ser. No. 636,744. Shreveport Garment Manufacturers, Shreveport, La. Filed Oct. 16, 1952.



The drawing is lined for the colors red and blue. Applicant claims ownership of Registration No. 398,268.
For Men's and Boys' Overalls, Shorts, Work Pants, Work Shirts, Men's and Boys' Blouses, and Dungarees, Shorts and Blue Jeans for Girls, Misses, and Women.
Claims use since Mar. 28, 1942.

Ser. No. 637,483. Jerome Edelstein Inc., New York, N. Y. Filed Nov. 1, 1952.

CONVEX

For Fur Coats, Fur Capes, and Fur Jackets.
Claims use since Oct. 20, 1952.

Ser. No. 637,489. Mavest Inc., New York, N. Y. Filed Nov. 1, 1952.

Cordex

Applicant claims ownership of Registration No. 554,959.
For Men's Suits.
Claims use since Oct. 16, 1952.

Ser. No. 637,550. J. Schoeneman, Inc., Baltimore, Md. Filed Nov. 3, 1952.

DAQUA

For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys.
Claims use since Oct. 28, 1952.

Ser. No. 637,760. Ely & Walker Dry Goods Company, St. Louis, Mo. Filed Nov. 7, 1952.

THE HIRED HAND

For Men's and Boys' Dress, Sport, and Work Shirts.
Claims use since on or about Nov. 3, 1950.

Ser. No. 637,955. J. Schoeneman, Inc., Baltimore, Md. Filed Nov. 12, 1952. (Sec. 2f.)

Rockland

Applicant claims ownership of Registration No. 301,455.
For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys.
Claims use since September 1930.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 614,722. Helena Rubinstein, Inc., New York, N. Y. Filed June 4, 1951.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, who has given her written consent to the use of her name as a trade-mark.
For Glove Holders Adapted To Be Fastened to a Purse, a Belt or Other Articles of Attire Worn by the User; Flower Holders Adapted To Be Fastened to Articles of Attire Worn by the User; Combination Perfume Pin and Flower Holders Consisting of a Hollow Metal Pin Which May Be Filled With Perfume or Receive the Stem of a Flower, and Be Fastened to Articles of the User's Attire; Combination Clip and Pin for Detachably Supporting an Eye-Glass Case, Same Being Adapted To Be Fastened to a Purse, Belt or Other Articles of Attire Worn by the User; Belt Attachment Comprising a Metal Clip Adapted To Be Detachably Secured to a Belt and Serving To Suspend Small Gadgets and Miscellaneous Items From the Belt.
Claims use since 1928.

Ser. No. 636,885. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Oct. 20, 1952.

NULITE

For Combs.
Claims use since Sept. 19, 1952.

Ser. No. Ser. No. 637,178. Gaylord Products, Incorporated, Chicago, Ill. Filed Oct. 25, 1952. (Sec. 2f.)

SUPERGRIP

Applicant claims ownership of Registration No. 507,472.
For Bobby Pins and Hair Pins.
Claims use since Mar. 26, 1947.

Ser. No. 637,588. Hook-Flex Company, Chicago, Ill., assignor to Hook-Flex Corporation, Chicago, Ill., a corporation of Illinois. Filed Nov. 4, 1952.



For Sets of Hooks and Eyes.
Claims use since Oct. 15, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 617,990. Goodall-Sanford, Inc., Sanford, Maine. Filed Aug. 23, 1951. (Sec. 2f.)

BROADWEAVE A GOODALL FABRIC

The words "Broadweave," "A" and "Fabric" are disclaimed separate and apart from the drawing. Applicant claims ownership of Registrations Nos. 301,480, 301,416, and others.
For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers and Combinations Thereof, Sold in Bolt.
Claims use since July 2, 1951; and since Sept. 1, 1932 as to "Goodall."

Ser. No. 622,245. American Cyanamid Company, New York, N. Y. Filed Dec. 8, 1951.

PYROSET

Applicant claims ownership of Registrations Nos. 437,776 and 559,647.
For Textile Fabric of Cellulosic Fibers.
Claims use since Nov. 21, 1951.

Ser. No. 629,897. Jantzen Knitting Mills Inc., Portland, Oreg. Filed May 19, 1952.

zip-fit

Applicant disclaims the word "Fit" apart from the mark as shown in the drawing.
For Swimming Trunks, Outer Shorts Adapted for Swimming, and Swimming Suits.
Claims use since Sept. 12, 1951.

Ser. No. 631,647. Bedford Shirt Corp., New York, N. Y. Filed June 24, 1952.

LURELLA

For Men's and Boys' Dress Shirts and Sport Shirts.
Claims use since May 8, 1952.

Ser. No. 632,794. Mutation Mink Breeders Association, Elkhorn, Wis. Filed July 19, 1952.

ROYAL PASTEL

No claim is made for the word "Pastel" apart from the entire combination.
For Fur Garments—Namely, Coats, Capes, Stoles, Jackets, and Neck Pieces.
Claims use since Apr. 9, 1946.

Ser. No. 632,856. Summit Mills Corporation, New York, N. Y. July 21, 1952.



For Sport Shirts for Young Men and Boys.
Claims use since June 11, 1952.

Ser. No. 633,209. Sam Neger, doing business under the trade name of the Elizabeth Hat Company, New York, N. Y. Filed July 29, 1952.

Hats by Eddi

Registration rights to the word "Hats" are not claimed.
For Hats, Bonnets, and Scarfs for Misses and Ladies.
Claims use since June 20, 1952.

Ser. No. 633,767. Moe Greenwald, New York, N. Y. Filed Aug. 12, 1952.

THE MEX

For Caps for Men, Women, and Children Made of Palm and Straw.
Claims use since Mar. 10, 1952.

Ser. No. 634,774. The Britanny Hat Co, Inc., New York, N. Y. Filed Sept. 3, 1952.

FIT-O-MATIC

Applicant disclaims the word "Fit" apart from the mark as shown.
For Men's and Boys' Hats.
Claims use since Aug. 7, 1952.

Ser. No. 636,001. Dainty Maid Shoe Company, Inc., Haverhill, Mass. Filed Oct. 1, 1952.

Tourraires

For Women's Shoes.
Claims use since Aug. 13, 1952.

Ser. No. 636,366. Lebow Bros. Inc., Baltimore, Md. Filed Oct. 8, 1952.

"Aquatized"

For Men's and Boys' Suits, Coats, Slacks, Sport Jackets, Top Coats, and Overcoats.
Claims use since Aug. 22, 1952.

Ser. No. 636,619. Wembley, Inc., New Orleans, La. Filed Oct. 14, 1952.



The drawing is lined for the color yellow but no claim is made to the color. Applicant claims ownership of Registrations Nos. 378,015, 390,628, and others.
For men's Neckties and Scarfs.
Claims use since July 1952.

Ser. No. 636,744. Shreveport Garment Manufacturers, Shreveport, La. Filed Oct. 16, 1952.



The drawing is lined for the colors red and blue. Applicant claims ownership of Registration No. 398,208.
For Men's and Boys' Overalls, Shorts, Work Pants, Work Shirts, Men's and Boys' Blouses, and Dungarees, Shorts and Blue Jeans for Girls, Misses, and Women.
Claims use since Mar. 28, 1942.

Ser. No. 637,483. Jerome Edelstein Inc., New York, N. Y. Filed Nov. 1, 1952.

CONVEX

For Fur Coats, Fur Capes, and Fur Jackets.
Claims use since Oct. 20, 1952.

Ser. No. 637,489. Mavest Inc., New York, N. Y. Filed Nov. 1, 1952.

Cordex

Applicant claims ownership of Registration No. 554,959.
For Men's Suits.
Claims use since Oct. 16, 1952.

Ser. No. 637,550. J. Schoeneman, Inc., Baltimore, Md. Filed Nov. 3, 1952.

DAQUA

For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys.
Claims use since Oct. 28, 1952.

Ser. No. 637,766. Ely & Walker Dry Goods Company, St. Louis, Mo. Filed Nov. 7, 1952.

THE HIRED HAND

For Men's and Boys' Dress, Sport, and Work Shirts.
Claims use since on or about Nov. 3, 1950.

Ser. No. 637,955. J. Schoeneman, Inc., Baltimore, Md. Filed Nov. 12, 1952. (Sec. 2f.)

Rockland

Applicant claims ownership of Registration No. 301,455.
For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys.
Claims use since September 1930.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 614,722. Helena Rubinstein, Inc., New York, N. Y. Filed June 4, 1951.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, who has given her written consent to the use of her name as a trade-mark.
For Glove Holders Adapted To Be Fastened to a Purse, a Belt or Other Articles of Attire Worn by the User; Flower Holders Adapted To Be Fastened to Articles of Attire Worn by the User; Combination Perfume Pin and Flower Holders Consisting of a Hollow Metal Pin Which May Be Filled With Perfume or Receive the Stem of a Flower, and Be Fastened to Articles of the User's Attire; Combination Clip and Pin for Detachably Supporting an Eye-Glass Case, Same Being Adapted To Be Fastened to a Purse, Belt or Other Articles of Attire Worn by the User; Belt Attachment Comprising a Metal Clip Adapted To Be Detachably Secured to a Belt and Serving To Suspend Small Gadgets and Miscellaneous Items From the Belt.
Claims use since 1928.

Ser. No. 636,885. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Oct. 20, 1952.

NULITE

For Combs.
Claims use since Sept. 19, 1952.

Ser. No. Ser. No. 637,178. Gaylord Products, Incorporated, Chicago, Ill. Filed Oct. 25, 1952. (Sec. 2f.)

SUPERGRIP

Applicant claims ownership of Registration No. 507,472.
For Bobby Pins and Hair Pins.
Claims use since Mar. 26, 1947.

Ser. No. 637,588. Hook-Flex Company, Chicago, Ill., assignor to Hook-Flex Corporation, Chicago, Ill., a corporation of Illinois. Filed Nov. 4, 1952.



For Sets of Hooks and Eyes.
Claims use since Oct. 15, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 617,990. Goodall-Sanford, Inc., Sanford, Maine. Filed Aug. 23, 1951. (Sec. 2f.)

BROADWEAVE A GOODALL FABRIC

The words "Broadweave," "A" and "Fabric" are disclaimed separate and apart from the drawing. Applicant claims ownership of Registrations Nos. 301,480, 301,416, and others.
For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers and Combinations Thereof, Sold in Bolt.
Claims use since July 2, 1951; and since Sept. 1, 1932 as to "Goodall."

Ser. No. 622,245. American Cyanamid Company, New York, N. Y. Filed Dec. 8, 1951.

PYROSET

Applicant claims ownership of Registrations Nos. 437,776 and 559,647.
For Textile Fabric of Cellulosic Fibers.
Claims use since Nov. 21, 1951.

Ser. No. 622,651. Louis H. Greenberg Company, New York, N. Y. Filed Dec. 18, 1951.

Dyna-Tex

For Towels.
Claims use since Oct. 17, 1951.

Ser. No. 623,118. Miller and Rhoads, Incorporated, Richmond, Va. Filed Dec. 10, 1951. (Sec. 2f.)

THE SHOPPING CENTER

Applicant claims ownership of Registration No. 544,796.
For Textile Rugs, Carpets, and Carpeting.
Claims use since April 1917.

Ser. No. 630,622. The Singer Manufacturing Company, Elizabeth, N. J. Filed June 2, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Piece Goods of Wool, Cotton, Silk, and Synthetic Fibers.
Claims use since Apr. 1, 1952.

Ser. No. 635,074. Russell C. Walker, Pittsburgh, Pa. Filed Sept. 9, 1952.

IMPERIAL-JEWEL

For Kerman Rugs.
Claims use since Nov. 15, 1950.

Ser. No. 635,135. Kenya Corporation, New York, N. Y. Filed Sept. 11, 1952.



No claim is made to the words "Netherlands," "Belgium," and "Luxemburg," or to the representation of the label apart from the mark as shown in the drawing.
For Fabrics in the Piece, of Cotton, Rayon, Nylon, and Other Synthetic Fibers.
Claims use since July 1, 1952.

Ser. No. 635,651. Heberlee Air-Lite, Inc., Seattle, Wash. Filed Sept. 23, 1952.

Air-Lite

The mark "Lite" is disclaimed separate and apart from the mark as shown. Applicant claims ownership of Registration No. 359,397.
For Filled Comforters and Blankets.
Claims use since Mar. 1, 1938.

Ser. No. 636,946. The Singer Manufacturing Company, Elizabeth, N. J. Filed Oct. 21, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.
For Piece Goods of Wool, Cotton, Silk, and Synthetic Fibers.
Claims use since Apr. 1, 1952.

Ser. No. 637,660. Mandee Fabrics, Inc., New York, N. Y. Filed Nov. 5, 1952.

NY-A-SHAN

For Textile Fabrics in the Piece Composed of Rayon and Nylon.
Claims use since Oct. 7, 1952.

Ser. No. 637,799. Tanbro Fabrics Corp., New York, N. Y. Filed Nov. 7, 1952.

Stripelon

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fabrics.
Claims use since Aug. 9, 1951.

Ser. No. 638,093. North American Commercial Corporation, New York, N. Y. Filed Nov. 14, 1952.

TABAJÚ

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fabrics.
Claims use since Apr. 10, 1952.

Ser. No. 638,224. Tanbro Fabrics Corp., New York, N. Y. Filed Nov. 17, 1952.

Jani-Sec

Applicant claims ownership of Registrations Nos. 534,983, 540,847, and 555,484.
For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fabrics.
Claims use since Jan. 3, 1952.

Ser. No. 638,354. Elder Manufacturing Company, St. Louis, Mo. Filed Nov. 20, 1952.

NYLOSPUN

For Piece Goods of Cotton, Wool, Silk, and Synthetic Fibers.
Claims use since Sept. 1, 1951.

Ser. No. 638,629. Armtex, Incorporated, Pilot Mountain, N. C. Filed Nov. 26, 1952.

"SANDS FINISHED"

The word "Finished" is disclaimed apart from the mark as shown on the drawing.
For Knitted Fabric Made of Cotton, Wool, Silk, Synthetic Fibers, and Combinations Thereof for Use in the Manufacture of Underwear and Outerwear.
Claims use since Oct. 27, 1952.

Ser. No. 638,633. William Brandwein, doing business as Brandwein & Company, Chicago, Ill. Filed Nov. 26, 1952.

"Brand-Tex"

No claim is made to the word "Brand" apart from the mark as shown on the drawing.
For Plastic-Coated Cotton and Linen Fabric Sold in the Roll and for Tablecloths.
Claims use since September 1951.

CLASS 43

THREAD AND YARN

Ser. No. 630,623. The Singer Manufacturing Company, Elizabeth, N. J. Filed June 2, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Sewing Thread.
Claims use since 1880.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 592,187. Ella H. Bernhardt, New York, N. Y. Filed Feb. 9, 1950. (Sec. 2f.)

Identical Form

For Prosthetic Devices—Namely, Artificial Breasts.
Claims use since in or about February 1949.

Ser. No. 622,409. Robert Reid, Inc., Baltimore, Md. Filed Dec. 12, 1951.



For Medical and Surgical Supplies—Namely, Sterilizers, Incubators, Oxygen Apparatus, Catheters, Sphygmomanometers, Hypodermic Syringes, Otoscopes, Diathermy Apparatus, Surgical Blades, Sutures, Surgeon's Gloves, Clinical Thermometers, Cast Cutters, Stethoscopes, Surgical Scissors and Shears, Surgical Forceps, Curettes, Sounds, Suture-Needle-Holders, Suture Ligatures, Bandage Scissors, Surgical Retractors, Specula, and Dilators.
Claims use since Oct. 15, 1951.

Ser. No. 622,846. Premier Dental Products Company, Philadelphia, Pa. Filed Dec. 26, 1951.

Premier

For Dental Supplies—Namely, Scaler, Excavators, Burnishers, Elevators, Spatulas, Carvers, Pluggers, Lancets, Contra-Angles, Dorlots, Burs, Diamond-Faced Cutting, Grinding, and Filling Instruments, Forceps, Mandrels, Disks, Grinding Wheels, Belts, Pliers, Denture Base Acrylic, and Filling Materials Used for Permanent Filling of Teeth.
Claims use since Mar. 6, 1928.

Ser. No. 625,219. Surgicon Corporation, New York, N. Y. Filed Feb. 19, 1952.



The representation of the hypodermic syringe is disclaimed apart from the mark as shown on the drawing. The word "Corporation" is disclaimed apart from the mark as shown.
For Hospital Equipment—Namely, Hypodermic Syringes, Hypodermic Needles, Suture Needles, Surgeons' Gloves, Hot Water Bottles, Ice Caps, Penrose Tubing, Rubber Tubing, Rubber Catheters, and Woven Catheters; and Surgical Instruments Comprising: Operating Scissors, Haemostatic Forceps, General Operating Retractors, Needle Holders, Suture Instruments, Gall Bladder Instruments, Intestinal and Stomach Instruments, Orthopedic Instruments, Thoracic Instruments, Eye and Ear Instruments, Cranial Instruments, Operating Knives, Nasal Instruments, Laryngeal and Esophageal Instruments, Mouth and Throat Instruments, Genito-Urinary Instruments, Gynecological Instruments, Obstetrical Instruments, Post Mortem Instruments, and Bandage and Plaster Instruments.
Claims use since Jan. 2, 1952.

Ser. No. 626,372. Everest & Jennings, Inc., Los Angeles, Calif. Filed Mar. 13, 1952.

THE TINY TOT

For Invalid Wheel Chairs.
Claims use since Feb. 15, 1952.

Ser. No. 627,084. Reliance Dental Mfg. Co., Chicago, Ill. Filed Mar. 26, 1952.

DuraLay

For Inlay Pattern Material, Comprising Resinous Powder and Liquid To Be Combined To Form a Resinous Product for Use in Making Inlay Patterns.
Claims use since on or about Dec. 27, 1951.

Ser. No. 627,056. Mine Safety Appliances Company, Pittsburgh, Pa. Filed Apr. 11, 1952.

ULTRA AIRE

The word "Aire" is disclaimed apart from the mark shown in the drawing.
For Mask-Type Respirator Adapted To Cover the Nose and Mouth of a Wearer for Removing Dust and Other Contaminants From Air That Is Breathed by the Wearer.
Claims use since on or about Oct. 15, 1951.

Ser. No. 634,216. Reliance Dental Mfg. Co., Chicago, Ill. Filed Aug. 20, 1952.

Dura Cement

The word "Cement" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 566,269.
For Dental Resinous Cement for Use in Bonding Inlays, Crowns, Bridges, and Facings on Tooth Structures.
Claims use since on or about July 30, 1952.

Ser. No. 636,295. Abraham Z. Krohn, Brooklyn, N. Y. Filed Oct. 7, 1952.

Circum-Ceps

For Surgical Circumcising Instruments.
Claims use since Sept. 5, 1952.

Ser. No. 636,475. Daniel Gluck, Woodmere, N. Y. Filed Oct. 10, 1952.

"MAGNA-V"

For Hypodermic Syringes.
Claims use since July 9, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 538,311. Pacific Fruit Exchange, San Francisco, Calif. Filed Oct. 18, 1947. (Sec. 2f as to "Pacific.")

PACIFIC FRUIT EXCHANGE

Applicant disclaims the words "Fruit Exchange" apart from the mark as shown in the drawing. The drawing is lined to show the color red. Applicant claims ownership of Registration No. 263,406.
For Fresh Grapes, Fresh Deciduous Fruits, and Fresh Vegetables.
Claims use since Jan. 2, 1914.

Ser. No. 564,406. Seaboard Mills, Santa Barbara, Calif. Filed Aug. 30, 1948.



For Dried Beans, Dried Peas, Rice, and Dried Lentils.
Claims use since June 25, 1948.

Ser. No. 592,794. Tomat-O-Pep Company, San Jose, Calif. Filed Feb. 20, 1950.

Tomat-O-Pep

No claim is made to the word "Tomat-O" apart from the mark as shown.
For Tomato Drink Consisting of Concentrated Tomato Juice, Onion, Peppers, Parsley, Celery, Water, Sugar, Salt, and Spices.
Claims use since Feb. 6, 1950.

Ser. No. 607,663. Duluth Universal Milling Company, Duluth, Minn. Filed Dec. 14, 1950.

VIKING

For Wheat Flour.
Claims use since Aug. 1, 1933.

Ser. No. 622,074. The Jel Sert Co., Chicago, Ill. Filed Dec. 4, 1951.

AUNT WICK'S JEL SERT

The word "Jel" is disclaimed. No claim is made to the exclusive use of the word "Wick's" apart from the mark shown in the drawing, applicant reserving all common-law rights in connection therewith. Applicant claims ownership of Registration No. 223,900.
For Gelatin Dessert, and a Preparation for Making Puddings.
Claims use since Nov. 16, 1951, on the mark as shown; and since Sept. 10, 1926 on the words "Jel Sert."

Ser. No. 623,429. Pets Meat Packing Company, Rush Springs, Okla. Filed Jan. 10, 1952.

HI-VI

Applicant claims ownership of Registration No. 303,191.
For Dog and Cat Food.
Claims use since Aug. 8, 1949.

Ser. No. 625,496. Tobin Packing Co., Inc., Rochester, N. Y., and Fort Dodge, Iowa. Filed Feb. 25, 1952. (Sec. 2f.)

WEBSTER

For Meat Products—Namely, Sliced Bacon, Smoked Skinned Hams, Cooked Ham Pieces, and Frankfurters.
Claims use since Apr. 30, 1940.

Ser. No. 627,057. Feu Hermanos Responsabilidade Limitada, Portimao, Portugal. Filed Mar. 26, 1952.



Applicant claims ownership of Portugese Registration No. 61,919, dated June 5, 1947.
For Canned Sardines in Olive Oil.

Ser. No. 627,180. Foodways, Inc., New York, N. Y. Filed Mar. 28, 1952.

Dorann Farms

The word "Farms" is disclaimed apart from the mark as shown.
For Fresh Frozen Fruits and Vegetables, Canned Frozen Orange Juice and Canned Frozen Pineapple Juice, and Canned Frozen Vegetable Juices.
Claims use since Mar. 24, 1952.

Ser. No. 627,228. Southern Canning Company, Inc., Highlands, Tex. Filed Mar. 28, 1952.

HI•VI

For Dog and Cat Food.
Claims use since June 20, 1947.

Ser. No. 627,551. Biggar & Biggar, Fort Myers, Fla. Filed Apr. 4, 1952.

PALM

Applicant claims ownership of Registration No. 194,225.
For Fresh Vegetables—Namely, Peppers, Eggplant, Cucumbers, Beans, Squash, and Potatoes.
Claims use since November 1922.

Ser. No. 630,278. Marvin Canning Company, Inc., Dallas, Tex. Filed May 26, 1952.



For Canned Dog Food.
Claims use since Mar. 24, 1952.

Ser. No. 632,016. California Berry Freezers, Inc., Watsonville, Calif. Filed July 1, 1952.

Seasons Favorite

For Fresh Berries, Frozen Fresh Berries and Fresh Vegetables.
Claims use since June 10, 1952.

Ser. No. 632,076. Chickadee Pie Factory, McAllen, Tex. Filed July 2, 1952.

40 Winks
ALARM CLOCK READY

No claim is made to the word "Ready" apart from the mark as shown on the drawing.
For Ready-to-Serve Pancakes.
Claims use since Dec. 10, 1951.

Ser. No. 632,091. Sakioka Farms, Los Angeles and West Los Angeles, Calif. Filed July 17, 1952.

ROY BOY

For Fresh Vegetables.
Claims use since June 4, 1952.

Ser. No. 632,724. Arthur J. Gerst, trading and doing business as Sausage Industry Suppliers Co., San Jose, Calif. Filed July 18, 1952.



"Sisco"

Applicant disclaims the right to any exclusive use of the words "Long on Quality" except in the association shown. The drawing is lined for brown and blue.

For Seasonings for Meat Products.
Claims use since May 16, 1952.

Ser. No. 633,219. Albert Rossi, doing business as Al Rossi Produce Co., Gonzales, Calif. Filed July 29, 1952.

Al's BEST

No claim is made to the word "Best" apart from the mark as shown.

For Fresh Vegetables.
Claims use since Feb. 29, 1952.

Ser. No. 636,830. Washington Co-Operative Farmers Association, Seattle, Wash. Filed Oct. 16, 1952. (Sec. 2f.)

WASHINGTON CO-OPERATIVE ASSOCIATION

The right to exclude others from using and from registering the words "Co-Operative Farmers Association" in forms distinctive from that shown, and in conjunction with a word other than "Washington," is hereby disclaimed.

For Various Products—Namely, Shell Eggs, Frozen Egg Whites, Frozen Egg Yolks, Frozen Whole Eggs, Powdered Whole Eggs, Domestic Egg Yolks, Powdered, Full Drawn Turkey, and Feed for Farm Livestock Containing the Following Principal Ingredients: Cereal Grains, Malt, Milk, and Other Proteins, Fish Meal, and Vitamins.
Claims use since on or about Mar. 1, 1945.

Ser. No. 637,968. Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Filed Nov. 12, 1952.

Golden Flair

For Candy.
Claims use since Sept. 3, 1952.

Ser. No. 638,461. Walter H. Wishard, Waynesboro, Pa. Filed Nov. 21, 1952.

SOL-RAY

For Fresh Apples and Fresh Peaches.
Claims use since Fall of 1939.

Ser. No. 639,048. J. H. Hobson Company, Philadelphia, Pa. Filed Dec. 5, 1952.

HOBCO

For Dried Cheese Whey.
Claims use since in the year 1944.

Ser. No. 639,049. J. H. Hobson Company, Philadelphia, Pa. Filed Dec. 5, 1952. (Sec. 2f.)

HOBSON'S CHOICE

For Nonfat Dry Milk Solids and Whole Milk Powder.
Claims use since in the year 1944.

Ser. No. 640,656. Turlock Co-Operative Growers, Modesto and San Francisco, Calif. Filed Jan. 12, 1953.

TURLA

For Canned Tomato Paste.
Claims use since Nov. 29, 1952.

Ser. No. 640,818. Swift & Company, Chicago, Ill. Filed Jan. 15, 1953.

Monox

For Stabilizer for Ice Cream and Other Confections.
Claims use since about September 1947.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 616,525. Tested Papers of America, Inc., Chicago, Ill. Filed July 14, 1951. (Sec. 2f.)

Test-Mark

Applicant claims ownership of Registration No. 380,825.
For Drinking Straws.
Claims use since August 1940.

Ser. No. 620,448. Whitewater Raincoat Co., Whitewater, Wis. Filed Oct. 24, 1951.

PEEK

For Transparent Covers Made of Plastic Material To Cover Food Bowls.
Claims use since June 15, 1951.

Ser. No. 626,868. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Mar. 22, 1952.

ALUTIN

For Kit Containing Various Materials Used for Soldering Aluminum Cables—Namely, a Metal Cleaning Composition, a Nickel Plating Composition, a Soldering Flux, a Solder, and an Activator for the Nickel Plating Composition.
Claims use since Feb. 15, 1952.

Ser. No. 628,511. Vulcan Corporation, Portsmouth, Ohio. Filed Apr. 22, 1952.

DO-ALL

For Shoe Lasts.
Claims use since Apr. 10, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 606,373. Max Factor & Co., Hollywood, Calif. Filed Nov. 14, 1950.

Signature by MAX FACTOR HOLLYWOOD

The word "Hollywood" is disclaimed apart from the mark as shown. "Max Factor" was the name of an individual who is now deceased.

For Cosmetics in the Nature of Colognes, Powders, Solidified Creams, and Similar Products—Namely, Deodorants, Hair Grooming Preparations, and Rouges.
Claims use since Sept. 11, 1950.

Ser. No. 614,504. The Honig Corporation, Los Angeles, Calif. Filed May 29, 1951.

PELICOSA

For Hair and Scalp Lotion.
Claims use since Oct. 25, 1950.

Ser. No. 621,396. Henry H. Faulkner, doing business as Cosmotone Laboratories, Los Angeles, Calif. Filed Nov. 19, 1951.

COSMOTONE

For Gray Hair Preparations.
Claims use since Jan. 5, 1934.

Ser. No. 623,261. Sales Affiliates, Inc., New York, N. Y. Filed Jan. 5, 1952. (Sec. 2f.)

PHIX

For Neutralizing Lotion Used in Permanent Hair Waving.
Claims use since Dec. 17, 1946, on the word "Phix"; and since Aug. 1, 1950, in the form shown.

Ser. No. 623,357. Lucky Strike Perfumeries Corporation, New York, N. Y. Filed Jan. 9, 1952.

Mr. Lucky

Applicant claims ownership of Registrations Nos. 515,581, 528,983, and 551,628.

For After Shave Lotion, Brilliantine, Eau de Cologne, Eau de Quinine, Hair Cream, Hair Fixer, Hair Lotion, Hair Pomade, and Perfume.
Claims use since Aug. 9, 1949.

Ser. No. 624,435. Winco Associates, Inc., Chicago, Ill. Filed Feb. 1, 1952.

Twirl

For Hair Setting Preparations, Commonly Known as Hair Lacquers.
Claims use since Nov. 19, 1951

Ser. No. 625,389. Amole, Incorporated, Dayton, Ohio. Filed Feb. 23, 1952.

Lime Glacé

The word "Lime" is disclaimed apart from the mark as shown.

For Facial Cream Preparations, Toilet Preparation Serving as a Base for Face Powder and Hand Creams.
Claims use since Feb. 1, 1952.

Ser. No. 625,449. Associated Brands, Inc., Brooklyn, N. Y. Filed Feb. 25, 1952. (Sec. 2f.)

WEST POINT

Applicant claims ownership of Registrations Nos. 299,249 and 335,143.

For Hair Tonic, Hair Dress With Oil, Bay Rum Compound, Hair Cream, Hair Pomade, Brushless Shaving Cream, Lather Shaving Cream, Cleansing Cream, Mentholated Vanishing Cream, After Shave Lotion and Toilet Water.

Claims use since Oct. 9, 1931.

Ser. No. 627,144. Jules Montenier, Inc., Chicago, Ill. Filed Mar. 27, 1952.

"Poof"

For Deodorant for Use on All Parts of the Body.

Claims use since June 1946; and since Jan. 22, 1951, in the form shown.

Ser. No. 630,114. Curtis L. Bryant, Detroit, Mich. Filed May 23, 1952.

SALAMENTO

For Tooth Powder.

Claims use since Aug. 22, 1951.

Ser. No. 630,954. Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Filed June 9, 1952.

Cable Car

For Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, and Perfumed, Powdered Sachet.

Claims use since Oct. 30, 1949.

Ser. No. 630,955. Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Filed June 9, 1952.

HAUNTING

For Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, and Perfumed, Powdered Sachet.

Claims use since June 1, 1935.

Ser. No. 632,268. Revlon Products Corporation, New York, N. Y. Filed July 8, 1952.

"SECOND NATURE"

For Liquid Face Make-Up Preparation.

Claims use since June 13, 1952.

Ser. No. 632,555. Maurice Fabricant, New York, N. Y. Filed July 15, 1952.

MAGIC MYSTERY

For Perfumes, Toilet Waters, Colognes, Cologne Sticks, and Sachet Powders.

Claims use since November 1951.

Ser. No. 633,442. Athea Laboratories, Incorporated, Milwaukee, Wis. Filed Aug. 4, 1952.

Athéa

For Hand Lotion.

Claims use since January 1937.

Ser. No. 633,627. Pepsodent Limited, London, England. Filed Aug. 8, 1952.

Mentasol

Applicant claims ownership of British Registration No. 704,223, dated Jan. 22, 1952.

For Toothpaste.

Ser. No. 634,167. J. Strickland & Co., Memphis, Tenn. Filed Aug. 19, 1952.

JERLON

For Hair Dressing and Hair Lotion.

Claims use since July 30, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 536,403. C. M. Kimball Co., Boston, Mass. Filed Oct. 1, 1947. (Sec. 2f.)

WIND-O-WASH

Applicant claims ownership of Registration No. 302,153.

For Preparation for Cleaning Glass, Porcelain, Painted Surfaces, and Metals.

Claims use since Dec. 7, 1931.

Ser. No. 628,795. Wade, Wenger & Associates, Inc., Chicago, Ill. Filed Apr. 26, 1952.

U R I N - X

Applicant disclaims the use of the word "Urin" separate and apart from the combination shown.

For Cleaning Compound for Household Textile Furnishings.

Claims use since Feb. 18, 1952

Ser. No. 632,745. Frank M. Roth, doing business as Hi-Sky Products Co., Oshkosh, Nebr. Filed July 18, 1952.

HI-SKY

For Paint Remover and Brush Softener.

Claims use since Mar. 20, 1952.

Ser. No. 635,547. Mt. Hood Soap Company, Portland, Oreg. Filed Sept. 20, 1952.

C-20

For Powdered Laundry Soap.

Claims use since 1949.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 629,638. V. I. P. Service, Inc., New York, N. Y. Filed May 13, 1952.

VIP SERVICE

No claim is made to the word "Service" and the abbreviation "Inc." apart from the mark as shown.

For Various Services Performed for Clients—Namely, Arranging for the mention of Its Clients' Names and Products on Radio and Television Shows and in Contests Conducted in Newspapers and Magazines, in Return for Said Products Which Are Given in Connection With These Shows and Contests, and Obtaining Testimonials of Individuals for the Advertising of the Products and Services of Its Clients.

Claims use since Sept. 1, 1945.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1905

444,770. Non-Alcoholic, Non-Cereal, Maltless Beverage, in the Nature of a Soft Drink. Santa Cola Company, Los Angeles, Calif.
Filed Mar. 31, 1947, Serial No. 519,900. Published Dec. 9, 1947. Class 45.

444,771. Electrically Operated Equipment Comprising Apparatus and Component Parts of Apparatus for Transmitting and Receiving, Etc. Telautograph Corporation, New York, N. Y.
Filed June 3, 1947, Serial No. 523,490. Published Feb. 3, 1953. Class 21.

ACT OF 1946, PRINCIPAL REGISTER

574,145. Philatelic and Numismatic Equipment and Supplies—Namely, Blank Coin and Stamp Stock Books, Blank Display Cards, Blank Collector's Books, and Blank Stamp and Coin Albums, and Blank Display Cards for Stamps and Coins. M. Meghrig & Sons, New York, N. Y.
Original filed, act of 1905, July 2, 1947; amended to application under act of 1946, Principal Register, Sept. 16, 1950, Serial No. 525,639. Published Feb. 10, 1953. Class 37.

574,146. Farm Machinery—Namely, Hydraulic Manure Loaders, Hydraulic Hay Stackers, Wagon Box Lifts, Hay Sweeps, Etc. Hi-Lo Equipment Company, Omaha, Nebr.
Filed Aug. 30, 1947, Serial No. 532,932. Published Feb. 17, 1953. Class 23.

574,147. Red Wine Vinegar, Red Wine Vinegar Flavored With Tarragon, Etc. Fredric H. Johnson, doing business as Spice Islands Company, San Francisco, Calif., assignor to Spice Islands Company, San Francisco, Calif., a corporation of California.
Filed Mar. 6, 1948, Serial No. 551,384. Published Feb. 10, 1953. Class 46.

574,148. Glassware—Namely, Baker-Servers, Cake Pans, Casseroles, Casserole Covers, Casserole Carriers, Coffee Mugs, Cups, Custard Cups, Individual Deep Pie Dishes, Loaf Pans, Pie Plates, Plates, Saucers, Soup Plates, and Utility Pans, All Made of Glass. Anchor Hocking Glass Corporation, Lancaster, Ohio.
Filed Mar. 10, 1948, Serial No. 551,603. Published Feb. 3, 1953. Class 33.

574,149. Ginger Beer, a Non-Cereal Maltless Beverage in the Nature of a Soft Drink. Santa Cola Company, Culver City, Calif.
Filed Mar. 29, 1948, Serial No. 553,313. Published Mar. 7, 1950. Class 45.

574,150. Paper Napkins, Paper Table Cloths, and Paper Guest Towels. Paper Art Company, Inc., Indianapolis, Ind.
Filed May 7, 1948, Serial No. 556,466. Published Feb. 10, 1953. Class 37.

574,151. Grooved, Recorded, Plastic Phonographic Tapes (Not Magnetic) for Use With Talking Machines. Ladis H. Ottofy, doing business as Talking Devices Company, Chicago, Ill.
Filed May 17, 1948, Serial No. 557,204. Published Feb. 17, 1953. Class 36.

574,152. Scotch Whisky. William Grant & Sons Limited, Glasgow and Dufftown, Scotland.
Filed May 21, 1948, Serial No. 557,523. Published Feb. 17, 1953. Class 49.

574,153. Rocking Chairs, Arm-Chairs, Bathroom Chairs, Easy-Chairs, Upholstered Chairs, Chairs With Caned Seats, High-Back Chairs, Etc. Million-Guiet-Tubauto, Levallois-Perret, France.
Filed Oct. 14, 1949, Serial No. 557,943. Published Feb. 17, 1953. Class 32.

574,154. Wind Instruments—Namely, Clarinets, Flutes, Oboes, English Horns, Bassoons, Piccolos, Saxophones, and Fifes. Leon Leblanc, Paris, France, assignor to G. Le Blanc Company, Kenosha, Wis., a partnership composed of Leon Le Blanc and Vito Pascucci.
Filed Apr. 9, 1948, Serial No. 557,979. Published Feb. 17, 1953. Class 36.

574,155. Glazier's Putty; Asphalt for Roofing and for Walks; Sound Deadener Consisting of Asphalt and Asbestos Fiber Compound for Use in Insulating and on Walls and Ceilings. Armstrong Paint & Varnish Works, Chicago, Ill.
Filed May 3, 1948, Serial No. 559,775. Published Jan. 13, 1953. Class 12.

574,156. Ladies' Wearing Apparel—Namely, Blouses, Skirts, and Jackets. Schlesinger Brothers, New York, N. Y.
Filed June 24, 1948, Serial No. 560,135. Published Jan. 1, 1952. Class 39.

574,157. Medicated Ointment for Irritations of the Human Skin. The Pharma-Craft Corporation, New York, N. Y.
Filed July 15, 1948, Serial No. 561,484. Published Nov. 1, 1949. Class 18.

574,158. Aircraft Cabin Pressurization Systems. Pacific Airmotive Corporation, Burbank, Calif.
Filed July 24, 1948, Serial No. 562,147. Published Aug. 21, 1951. Class 19.

574,159. Preparation for the Medical Management of Biliary Disease. Maltbie Laboratories, Inc., formerly The Maltbie Chemical Company, Newark, N. J.
Filed Oct. 2, 1948, Serial No. 566,351. Published Jan. 20, 1953. Class 18.

574,160. Clocks. Pennwood Numechron Co., Pittsburgh, Pa.
Filed Oct. 18, 1948, Serial No. 567,129. Published Feb. 3, 1953. Class 27.

574,161. Work Gloves of Leather and of Leather and Fabric. Wells Lamont Corporation, Chicago, Ill.
Filed Nov. 3, 1948, Serial No. 568,137. Published Feb. 10, 1953. Class 30.

574,162. Fishing Lines. Newton Line Company Incorporated, Homer, N. Y.
Filed Nov. 10, 1948, Serial No. 568,527. Published Feb. 3, 1953. Class 22.

574,163. Combination Soap and Synthetic Washing Powder. Essential Chemicals Co., Milwaukee, Wis.
Filed Feb. 15, 1949, Serial No. 573,872. Published Feb. 17, 1953. Class 52.

574,164. Magnetic Medium Recorder Heads, Phonograph Pickup Cartridges, Etc. Shure Brothers, Incorporated, Chicago, Ill.
Filed May 12, 1949, Serial No. 578,718. Published Feb. 10, 1953. Class 21.

574,165. Still and Effervescent Table Waters. Jacob Ries Bottling Works, Inc., Shakopee, Minn.
Filed May 20, 1949, Serial No. 579,215. Published Jan. 27, 1953. Class 45.

574,166. Analgesic Balm. Dr. Olivier Gaudin, Paris, France.
Filed July 11, 1949, Serial No. 581,764. Published Jan. 13, 1953. Class 18.

574,167. Waterproofing and Finishing Compound for Wood, Brick, Concrete, Ceramic Tile, Etc. C. C. Chartier, Chicago, Ill.
Filed Aug. 2, 1949, Serial No. 582,820. Published Feb. 10, 1953. Class 16.

574,168. Rolls for Forming Threads, Oil Grooves or the Like, and Holders and Adaptors for Such Rolls, and Broach Turning Tools for Automatic Screw Machines. Leo W. Bedker, doing business as Salvo Tool & Engineering Co., Roseville, Mich.
Filed Nov. 21, 1949, Serial No. 588,124. Published Feb. 3, 1953. Class 23.

574,169. Pianos. R. H. Macy & Co., Inc. New York, N. Y.
Filed Dec. 12, 1949, Serial No. 589,221. Published Feb. 17, 1953. Class 36.

574,170. Laxative. Abraham Newhouse, doing business under the name and style of Lax-C-Feen, Brooklyn, N. Y.
Filed Jan. 6, 1950, Serial No. 590,451. Published Jan. 20, 1953. Class 18.

574,171. Motor Generators, Transmitters, and Receiver Control Units Used in Conjunction With Carrier Current Control Circuits for Operating Electrical Switching Mechanisms by Remote Control. McGraw Electric Company, Chicago, Ill.
Filed Jan. 7, 1950, Serial No. 590,513. Published Feb. 17, 1953. Class 21.

574,172. Cologne. Helena Rubinstein, Inc., New York, N. Y.
Filed Jan. 18, 1950, Serial No. 591,050. Published Jan. 13, 1953. Class 51.

574,173. Anti-Spasmodic Active in Parkinson's Disease. Societe des Usines Chimiques Rhone-Poulenc, Paris, France.
Priority under Sec. 44(d). French Registration No. 396,715, filed Sept. 22, 1949.
Filed Jan. 20, 1950, Serial No. 591,201. Published Jan. 20, 1953. Class 18.

574,174. Glass Tableware—Namely, Fruit Juice Glasses, Sherbet Glasses, Goblets, Sherbet Plates, Salad Plates, Punch Cups, Table Tumblers, Iced Tea Glasses, Cups, Saucers, Dessert Dishes, Cereal Dishes, Luncheon Plates, Dinner Plates, Soup Plates, Bowls, Platters, Sugar Bowls, and Cream Pitchers. Anchor Hocking Glass Corporation, Lancaster, Ohio.
Filed Feb. 8, 1950, Serial No. 592,117. Published Feb. 3, 1953. Class 33.

574,175. Automobile Storage Batteries. Laber Spring and Tire Corporation, Oakland, Calif.
Filed Feb. 10, 1950, Serial No. 592,267. Published Feb. 10, 1953. Class 21.

574,176. Glass Fibre Saturated With Resinous Material for Use as a Shock Mount. Vibradamp Corporation, Los Angeles, Calif.
Filed Mar. 16, 1950, Serial No. 594,084. Published Feb. 17, 1953. Class 12.

574,177. Handkerchiefs of Linen. Eli L. Sandler & Co., Inc., New York, N. Y.
Filed May 9, 1950, Serial No. 597,169. Published Feb. 3, 1953. Class 39.

574,178. Supplement to Stock Feed, the Principal Ingredients of Which Are Alfalfa Meal, Corn Gluten Meal, Meat Scraps, Fish Meal, Vitamins, Metal Salts, and Butyl Fermentation Solubles. E. L. M. Stores, also doing business as E. L. M. Feed Stores, Greencastle, Pa.
Filed May 15, 1950, Serial No. 597,436. Published Dec. 9, 1952. Class 18.

574,179. Rabbit Feed. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Apr. 3, 1950, Serial No. 597,860. Published Feb. 3, 1953. Class 46.

574,180. Electrical Sound-Reproducing Apparatus, With Speaker or Earphones, and Timing Device Which Can Be Pre-Set To Determine Interval Between Cycles. Modernophone, Inc., New York, N. Y.
Filed May 24, 1950, Serial No. 598,028. Published Feb. 10, 1953. Class 21.

574,181. Alcoholic Beverages—Namely, Whiskey. Joseph E. Seagram & Sons, Inc., New York, N. Y., assignor to Seagram-Distillers Corporation, New York, N. Y., a corporation of Delaware.
Filed June 10, 1950, Serial No. 598,929. Published Feb. 17, 1953. Class 49.

574,182. Paint Bases and Paints Compounded From Aqueous Emulsions of Polyvinyl Acetate. Shawinigan Chemicals Limited, Montreal, Quebec, Canada.
Filed June 12, 1950, Serial No. 598,965. Published Feb. 17, 1953. Class 16.

574,183. Construction Materials — Namely, Unfinished Plywood Shapes in the Form of Shells and Panels, Etc. Haskelite Manufacturing Corporation, Grand Rapids, Mich.
Filed June 20, 1950, Serial No. 599,431. Published Feb. 17, 1953. Class 12.

574,184. Metal Awnings. Multi-Vent Awning & Aluminum Co., Augusta, Ga.
Filed July 18, 1950, Serial No. 600,843. Published Jan. 13, 1953. Class 12.

574,185. Resins in Solution Used in the Manufacture of Paints, Varnishes, and Lacquers. U. S. Industrial Chemicals, Inc., New York, N. Y., assignor to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia.
Filed July 18, 1950, Serial No. 600,867. Published Feb. 17, 1953. Class 16.

574,186. Weatherstrip Packing for Window Channels. Van Cleef Bros., Inc., Chicago, Ill.
Filed July 20, 1950, Serial No. 601,002. Published Jan. 13, 1953. Class 12.

574,187. Weatherstrip Packing for Window Channels. Van Cleef Bros., Inc., Chicago, Ill.
Filed July 20, 1950, Serial No. 601,004. Published Jan. 13, 1953. Class 12.

574,188. Perfumes. Les Parfums Jacques Fath (Société à Responsabilité Limitée), Paris (Seine), France.
Filed July 22, 1950, Serial No. 601,109. Published Feb. 3, 1953. Class 51.

574,189. Bridges Constructed of Wire and Wire Rope. John A. Roebling's Sons Company, Trenton, N. J.
Filed July 27, 1950, Serial No. 601,334. Published Feb. 17, 1953. Class 12.

574,190. Corrugated Paper in Sheet Form That Has Been Hardened and Strengthened by Impregnation With an Introfying Agent Such as Sulphur, Etc. Convoy, Incorporated, Canton, Ohio.
Filed Aug. 7, 1950, Serial No. 601,820. Published Feb. 17, 1953. Class 12.

574,191. Greaseproof Paper Used for Lining Baking Pans. Malanco, Inc., Blue Island, Ill.
Filed Aug. 22, 1950, Serial No. 602,563. Published Feb. 10, 1953. Class 37.

574,192. Frozen Beef Steaks. Armour and Company, Chicago, Ill.
Filed Sept. 8, 1950, Serial No. 603,277. Published Feb. 10, 1953. Class 46.

574,193. Bridal Gowns and Evening Gowns. Gowns by Priscilla of Boston, Inc., Boston, Mass.
Filed Sept. 23, 1950, Serial No. 603,922. Published Mar. 4, 1952. Class 39.

574,194. Grooved Phonograph Records and Non-Electrical and Non-Magnetized Recording Wire and Recording Tape, and Gramophones and Gramophone Needles. C. Schous Fabriker A/S, Copenhagen, Denmark.
Filed Aug. 18, 1950, Serial No. 604,335. Published Feb. 17, 1953. Class 36.

574,195. All Wool, All Cotton, All Acetate Rayon, and/or Acetate Rayon and Nylon Combined Carpets. James Lees and Sons Company, Bridgeport, Pa.
Filed Oct. 16, 1950, Serial No. 604,973. Published Feb. 17, 1953. Class 42.

574,196. Pigmented Liquid Coating Compositions, Etc. The Master Mechanics Co., Cleveland, Ohio.
Filed Oct. 31, 1950, Serial No. 605,665. Published Feb. 10, 1953. Class 16.

574,197. Hides and Leather. A. K. Salz Company, San Francisco and Santa Cruz, Calif.
Filed Oct. 31, 1950, Serial No. 605,685. Published Feb. 3, 1953. Class 1.

574,198. Electrical Apparatus—Namely, Portable Electric Fans, Motor Speed Controls, Portable Electric Drills and Drill Stands Therefor; Fractional Horse Power Motors, and Parts and Sub-Assemblies Thereof—Namely, Rotors, Stators, Armatures, and Field Assemblies. Signal Electric Manufacturing Co., Menominee, Mich.
Filed Nov. 9, 1950, Serial No. 606,177. Published Feb. 17, 1953. Class 21.

574,199. Women's and Misses' Skirts. Daryl Dress Company, St. Louis, Mo.
Filed Nov. 30, 1950, Serial No. 607,122. Published Feb. 10, 1953. Class 39.

574,200. Non-Ferrous Metal Mouldings and Extruded Metal Laminated, Coated, or Plated With Plastic or Other Material, in the Forms of Angles, Channels, Cap Sections, Panel Dividers for Use as Decorative Finishes and Trims in Commercial, Industrial, and Architectural Designs. R. D. Werner Co., Inc., New York, N. Y.
Filed Dec. 18, 1950, Serial No. 607,835. Published Feb. 3, 1953. Class 12.

574,201. Streptomycinkaolin-Alumina Gel-Pectin Combination for the Treatment of Diarrhea in Dosage Forms. Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware.
Filed Dec. 29, 1950, Serial No. 608,231. Published Feb. 3, 1953. Class 18.

574,202. Lock Nuts. Elastic Stop Nut Corporation of America, Union, N. J.
Filed Jan. 4, 1951, Serial No. 608,346. Published Feb. 17, 1953. Class 13.

574,203. Canned Soup, Not Including Turkey Soup, and Preserved Watermelon Rind. The White Turkey—Murray Hill, New York, N. Y.
Filed Jan. 6, 1951, Serial No. 608,483. Published Feb. 10, 1953. Class 46.

574,204 Frozen Whole Fish (Skin on), Frozen Fish Fillet (Skinless), and Frozen Whale Meat. Norsk Frossenfisk A/L, Oslo, Norway.
Filed Jan. 23, 1951, Serial No. 609,136. Published Feb. 3, 1953. Class 46.

574,205. Plastic Roof Cement; Cold Process Sealer; Etc. Foster Lumber Company, Kansas City, Mo.
Filed Jan. 25, 1951, Serial No. 609,236. Published Jan. 13, 1953. Class 12.

574,206. Linseed Oil for Use in Paints and as an Ingredient of Paints and Other Protective Coatings. Cargill, Incorporated, Minneapolis, Minn., assignee of Falk & Company.
Filed Feb. 5, 1951, Serial No. 609,639. Published Feb. 10, 1953. Class 16.

574,207. Thiacetazone Product Prepared for Use in Medicine and Pharmacy in Connection With the Treatment of Tuberculosis and Leprosy. Boots Pure Drug Company Limited, Nottingham, England.
Filed Feb. 23, 1951, Serial No. 610,409. Published Jan. 27, 1953. Class 18.

574,208. Artificial Fish Lure. The Ross Bait Manufacturing, Co., Akron, Ohio.
Filed Feb. 26, 1951, Serial No. 610,524. Published Feb. 10, 1953. Class 22.

574,209. Electricity-Operated Apparatus for the Cuing of Speakers and Actors by Means of Scripts Advanced, Etc. Teleprompter Corporation, New York, N. Y.
Filed Feb. 28, 1951, Serial No. 610,645. Published Feb. 10, 1953. Class 21.

574,210. Cotton Yarn. Kureha Spinning Co., Ltd., Higashi-Ku, Osaka, Japan.
Priority under Sec. 44(d). Japanese Registration No. 413,450, filed Nov. 24, 1950.
Filed Mar. 2, 1951, Serial No. 610,742. Published Feb. 10, 1953. Class 43.

574,211. Cotton Yarn. Kureha Spinning Co., Ltd., Higashi-Ku, Osaka, Japan.
Priority under Sec. 44(d). Japanese Registration No. 413,451, filed Nov. 24, 1950.
Filed Mar. 2, 1951, Serial No. 610,750. Published Feb. 10, 1953. Class 43.

574,212. Bottled Cocktails Containing Rum and Gin. Joseph C. Wilson, doing business as Joe Wilson, Lexington, Ky.
Filed Mar. 5, 1951, Serial No. 610,880. Published Jan. 27, 1953. Class 49.

574,213. Concrete Roofing Tile. W. E. Dunn Manufacturing Company, Holland, Mich.
Filed Mar. 8, 1951, Serial No. 611,025. Published Feb. 17, 1953. Class 12.

574,214. Food Products—Namely, Spaghetti Sauce With Meat and With Mushrooms, Spanish Rice, and Macaroni Dinner. H. C. Brill Company, Inc., Newark, N. J.
Filed Mar. 5, 1951, Serial No. 611,120. Published Feb. 10, 1953. Class 46.

574,215. Corsets, Girdles, and Brassières. A/S Figfort, Figurkomfort Korsettfabrikk, Oslo, Norway.
Filed Mar. 20, 1951, Serial No. 611,553. Published Feb. 17, 1953. Class 39.

574,216. Macaroni and Spaghetti. Kellogg Company, Battle Creek, Mich.
Filed Apr. 10, 1951, Serial No. 612,457. Published Feb. 10, 1953. Class 46.

574,217. Red Champagne. Paul Masson, Inc., also doing business as Paul Masson and Paul Masson Vineyards, Cupertino, Calif.
Filed Apr. 24, 1951, Serial No. 613,080. Published Jan. 20, 1953. Class 47.

574,218. Men's and Boys' Belts. Wellmade Leather Goods Co., Inc., New York, N. Y.
Filed May 5, 1951, Serial No. 613,578. Published Feb. 3, 1953. Class 39.

574,219. Door Lock Sets, French Window Lock Sets, Wardrobe Locks, Drawer Locks, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed May 19, 1951, Serial No. 614,106. Published Feb. 17, 1953. Class 25.

574,220. Electrical Appliances Including Corn Poppers, Waffle Bakers, Etc. McGraw Electric Company, Chicago, Ill.
Filed May 23, 1951, Serial No. 614,250. Published Feb. 17, 1953. Class 21.

574,221. Plywood Primer and Sealer. M. A. Bruder & Sons, Incorporated, Philadelphia, Pa.
Filed May 24, 1951, Serial No. 614,286. Published Feb. 10, 1953. Class 16.

574,222. Liquid Preparation for Degerming Cutaneous Surfaces. Sindar Corporation, New York, N. Y.
Filed June 6, 1951, Serial No. 614,851. Published Jan. 20, 1953. Class 18.

574,223. Thermal Insulation—Namely, Bats and Loose Masses of Refractory Fibers. The Carborundum Company, Niagara Falls, N. Y.
Filed June 21, 1951, Serial No. 615,478. Published Jan. 13, 1953. Class 12.

574,224. Doors of Various Kinds for Use in Buildings Such as Dwellings, Garages, Warehouses, and Factories. Howell Manufacturing Company, Philadelphia, Pa.
Filed June 22, 1951, Serial No. 615,555. Published Feb. 17, 1953. Class 12.

574,225. Clutch Assemblies, Clutch Driven Discs, Multiple Disc Clutches, Power Take-Off and Gear Reduction Units, Etc. Borg-Warner Corporation, Chicago, Ill.
Filed June 26, 1951, Serial No. 615,684. Published Jan. 20, 1953. Class 23.

574,226. Clutch Assemblies, Clutch Driven Discs, Multiple Disc Clutches, Etc. Borg-Warner Corporation, Chicago, Ill.
Filed June 26, 1951, Serial No. 615,685. Published Jan. 20, 1953. Class 23.

574,227. Electrically Operated Phonograph Record Players. Rek-O-Kut Company, Long Island City, N. Y.
Filed June 29, 1951, Serial No. 615,903. Published Feb. 10, 1953. Class 21.

574,228. Lids for Open Cans of Food. DeRoy Manufacturing Co., South Gate, Calif.
Filed July 5, 1951, Serial No. 616,084. Published Feb. 3, 1953. Class 50.

574,229. Painted Wall and Woodwork Cleaner. Earl Griesmer Co., Indianapolis, Ind.
Filed July 7, 1951, Serial No. 616,206. Published Feb. 17, 1953. Class 52.

574,230. Vitamin Concentrates Used as Ingredients of Poultry and Livestock Feeds. Commercial Solvents Corporation, New York, N. Y.
Filed July 12, 1951, Serial No. 616,366. Published Jan. 20, 1953. Class 18.

574,231. Biscuits, Candies, Chocolates, Ice Cream Flavoring Syrups and Syrup Toppings, Chocolate Liquor, Chocolate Dairy Drink Powder, Chocolate Ice Cream Powder, Cocoa, and Instant Cocoa Powder. Robert A. Johnston Company, Milwaukee, Wis.
Filed July 17, 1951, Serial No. 616,601. Published Feb. 10, 1953. Class 46.

574,232. Building Woodwork of Natural Wood and of Synthetic Lumber Formed of Resin-Bound Sawdust, in Particular Flush Doors, Panelled Doors, Combination Doors, Door Panelling, Etc. Rock Island Millwork Company, Rock Island, Ill.
Filed July 19, 1951, Serial No. 616,680. Published Feb. 17, 1953. Class 12.

574,233. Liqueurs. Les Heritiers de Marie Brizard & Roger, Achard, Giotin & Cie., Bordeaux, France.
Filed July 20, 1951, Serial No. 616,716. Published Feb. 17, 1953. Class 49.

574,234. Riveting Tools—Namely, Riveting Guns and Parts Thereof. Aviation Developments Limited, London, England.
Filed July 25, 1951, Serial No. 616,893. Published Dec. 30, 1952. Class 23.

574,235. Concrete Block. Shad-o-Blok Corporation, Lancaster, Ohio.
Filed July 25, 1951, Serial No. 616,925. Published Feb. 17, 1953. Class 12.

574,236. Preparations in Liquid Form for Use in Orchidotherapeutics. Societe Biopharma, Paris, France.
Filed Aug. 9, 1951, Serial No. 617,515. Published Feb. 3, 1953. Class 18.

574,237. Vitamin and Anti-Biotic Enriched Hog Feed Supplement. Dannen Mills, Inc., St. Joseph, Mo.
Filed Aug. 13, 1951, Serial No. 617,603. Published Jan. 20, 1953. Class 18.

574,238. Commercial Electrically Operated Apparatus—Namely, Vacuum Cleaners, Floor Conditioning Machines, Electric Moppers, and Suction Furnace Cleaners, and Parts of Such Apparatus. The Kent Company, Inc., Rome, N. Y.
Filed Sept. 10, 1951, Serial No. 618,583. Published Feb. 17, 1953. Class 21.

574,239. Magnetic Separator for Conduits to Separate Magnetic Particles. Cesco, San Francisco, Calif.
Filed Sept. 15, 1951, Serial No. 618,840. Published Feb. 17, 1953. Class 21.

574,240. Pressure and Vacuum Relief Valves, Etc. Pacific Airmotive Corporation, Burbank, Calif.
Filed Oct. 1, 1951, Serial No. 619,473. Published July 8, 1952. Class 13.

574,241. Plastic Clay in Raw or Comminuted Form. Illinois Clay Products Company, Joliet, Ill.
Filed Oct. 2, 1951, Serial No. 619,510. Published Feb. 10, 1953. Class 1.

574,242. Caramel Flavored Popcorn. King Kone Corporation, New York, N. Y.
Filed Oct. 9, 1951, Serial No. 619,760. Published Feb. 10, 1953. Class 46.

574,243. Baby Identification Beads and Rubber Sheetings. Hospital Equipment Corporation, New York, N. Y.
Filed Oct. 10, 1951, Serial No. 619,835. Published Feb. 17, 1953. Class 50.

574,244. Preparation for Stomach Distress in Cases of Indigestion or Excess Stomach Acidity. Gordon R. Kempton, doing business under the assumed name of No-Rue Company, Portland, Oreg.
Filed Oct. 10, 1951, Serial No. 620,043. Published Feb. 3, 1953. Class 18.

574,245. Vitamin Compounds and Vitamin Preparations. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Oct. 24, 1951, Serial No. 620,405. Published Jan. 20, 1953. Class 18.

574,246. Apparatus Adapted To Be Mounted on, and to Supply Electric Current to Railway Cars, Etc. Waukesha Motor Company, Waukesha Wis.
Filed Oct. 24, 1951, Serial No. 620,447. Published Feb. 10, 1953. Class 21.

574,247. Wheat Flour (Including Both Self-Rising and Phosphated). Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Oct. 29, 1951, Serial No. 620,621. Published Feb. 3, 1953. Class 46.

574,248. Lace Handkerchiefs and Lace Scarves Used as Mantillas. David E. Schwab & Co. Inc., New York, N. Y.
Filed Nov. 3, 1951, Serial No. 620,860. Published Feb. 10, 1953. Class 39.

574,249. Growth Stimulator for Poultry and a Preventive and Control of Cecal (Bloody) Coccidiosis in Poultry. Barker, Moore & Mein Company, Philadelphia, Pa.
Filed Nov. 6, 1951, Serial No. 620,909. Published Feb. 10, 1953. Class 18.

574,250. Butter and Oleomargarine. May-Zur-Mark Co., Springfield, Ill.
Filed Nov. 6, 1951, Serial No. 620,924. Published Feb. 10, 1953. Class 46.

574,251. Ladies' Gloves of Leather, Fabric, and Combinations Thereof. The Superb Glove Company, Johnstown, N. Y.
Filed Nov. 8, 1951, Serial No. 621,037. Published Feb. 10, 1953. Class 39.

574,252. Wood Product or a Natural Wood Laminated With a Resinous Plastic Sheeting Used in the Construction of Kitchen Cabinets, Furniture, and Bathroom Cabinets. Wooster Kitchen Unit Co., New York and Brooklyn, N. Y.
Filed Nov. 13, 1951, Serial No. 621,188. Published Jan. 13, 1953. Class 12.

574,253. Check Valves, Relief Valves, Air Pressure Control Valves for Deep and Shallow Well Pumps, Etc. A. Y. McDonald Mfg. Co., Dubuque, Iowa.
Filed Nov. 15, 1951, Serial No. 621,275. Published Feb. 17, 1953. Class 13.

574,254. Piston Ring Groove Inserts. Sealed Power Corporation, Muskegon Heights, Mich.
Filed Nov. 16, 1951, Serial No. 621,337. Published Feb. 17, 1953. Class 35.

574,255. Construction Material—Namely, Translucent, Non-Porous, Non-Corrosive, Fire Resistant, Corrugated, and Non-Corrugated Glass Fiber Sheets, Capable of Being Sawed, Drilled, and Nailed. International Glass Fibres Corporation, Baltimore, Md.
Filed Nov. 19, 1951, Serial No. 621,406. Published Feb. 17, 1953. Class 12.

574,256. Asphalt Base Composition To Be Made Into Marine Decking for Ships and the Like. Asbestolith Manufacturing Corporation, Brooklyn, N. Y.
Filed Nov. 20, 1951, Serial No. 621,437. Published Feb. 10, 1953. Class 1.

574,257. Chemical Preparation To Be Used as a Rat and Mouse Killer. Emmett L. Fox, Brooks, W. Va.
Filed Nov. 20, 1951, Serial No. 621,458. Published Feb. 17, 1953. Class 6.

574,258. Castor Oil, Which Is Used as a Di-Electric in Electrical Equipment Especially Electrical Condensers. The Baker Castor Oil Company, Jersey City, N. J.
Filed Nov. 24, 1951, Serial No. 621,612. Published Feb. 17, 1953. Class 21.

574,259. Infants', Children's, Boys', and Girls' Underwear. Little Miss Undies, Inc., Yonkers, N. Y.
Filed Nov. 29, 1951, Serial No. 621,830. Published Feb. 10, 1953. Class 39.

574,260. Bed Sheets, Textile Sheeting, Pillow Cases, and Textile Fabrics in the Piece of Cotton and Blends Thereof With Rayon. Dan River Mills, Incorporated, Danville, Va.
Filed Dec. 1, 1951, Serial No. 621,953. Published Feb. 10, 1953. Class 42.

574,261. Bed Sheets, Textile Sheeting, Pillow Cases, and Textile Fabrics in the Piece of Cotton, and Blends Thereof With Rayon. Dan River Mills, Incorporated, Danville, Va.
Filed Dec. 1, 1951, Serial No. 621,954. Published Feb. 10, 1953. Class 42.

574,262. Catalyst Battery Caps for Electrical Storage Batteries. Industrial Research, Inc., Miami, Fla.
Filed Dec. 1, 1951, Serial No. 621,963. Published Feb. 10, 1953. Class 21.

574,263. Protective Plastic Paint in the Nature of an Interior Boiler and Tank Coating. Elraco Engineering Company, Hoboken, N. J.
Filed Dec. 12, 1951, Serial No. 622,384. Published Feb. 17, 1953. Class 16.

574,264. Rope. Charles Ulmer, Inc., City Island, N. Y.
Filed Dec. 15, 1951, Serial No. 622,566. Published Feb. 17, 1953. Class 7.

574,265. Comminuted Barks of Trees for Use in Oil Well Drilling Fluids. Weyerhaeuser Timber Company, Tacoma, Wash.
Filed Dec. 15, 1951, Serial No. 622,569. Published Feb. 10, 1953. Class 1.

574,266. Plastic Containers—Namely, Cases for Holding Pens and Pencils. A. G. Mayer Inc., New York, N. Y.
Filed Dec. 17, 1951, Serial No. 622,611. Published Feb. 10, 1953. Class 37.

574,267. Maltless Soft Drinks and Carbonated Waters. Clicquot Club Company, Millis, Mass.
Filed Dec. 27, 1951, Serial No. 622,881. Published Feb. 17, 1953. Class 45.

574,268. Penicillin-Dihydrostreptomycin Implantation Pellets. Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware.
Filed Dec. 28, 1951, Serial No. 622,967. Published Jan. 20, 1953. Class 18.

574,269. Bulk Rubber Compositions for Use in Further Manufacture. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 29, 1951, Serial No. 623,005. Published Jan. 27, 1953. Class 1.

574,270. Bulk Rubber Compositions for Use in Further Manufacture. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 29, 1951, Serial No. 623,006. Published Jan. 27, 1953. Class 1.

574,271. Bakery Products—To Wit, Breadsticks and Breadcrumbs. The Grissol Bread Specialties, Ltd., Montreal, Quebec, Canada.
Filed Jan. 2, 1952, Serial No. 623,050. Published Feb. 17, 1953. Class 46.

574,272. Women's and Misses' Underwear. Van Raalte Company, Inc., New York, N. Y.
Filed Jan. 4, 1952, Serial No. 623,219. Published Feb. 10, 1953. Class 39.

574,273. Men's Sport Coats. Lin-Lite, Inc., New York, N. Y.
Filed Jan. 8, 1952, Serial No. 623,311. Published Feb. 10, 1953. Class 39.

574,274. Inside Plastic Wall Tile. Bestile Manufacturing Company, Ontario, Calif.
Filed Jan. 14, 1952, Serial No. 623,532. Published Jan. 13, 1953. Class 12.

574,275. Herbicides—Namely, Crab Grass and Weed Killers. William M. Stieh and Co., Inc., Tenneck, N. J.
Filed Jan. 17, 1952, Serial No. 623,739. Published Feb. 17, 1953. Class 6.

574,276. Children's Home Permanent Hair Waving Kits Containing Hair Waving Lotion. Gillette Safety Razor Company, Boston, Mass., now by change of name The Gillette Company.
Filed Jan. 25, 1952, Serial No. 624,083. Published Feb. 17, 1953. Class 51.

574,277. Textile Fabrics in the Piece Made of Cotton, Wool, Silk, Synthetic Fibers, and Mixtures Thereof. Hafner Fabrics Corporation, New York, N. Y.
Filed Jan. 29, 1952, Serial No. 624,232. Published Feb. 17, 1953. Class 42.

574,278. Textile Fabrics Made of Wool and Synthetic Fibers, and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Feb. 4, 1952, Serial No. 624,471. Published Feb. 17, 1953. Class 42.

574,279. Enteric Coated Tablet for Sinus Taken Internally. Cemac Laboratories, Inc., Detroit, Mich.
Filed Feb. 5, 1952, Serial No. 624,525. Published Jan. 27, 1953. Class 18.

574,280. Expanding Envelopes and File Folders, File Folders, Pocket File Folders, and Document File Folders. American Fiber-Velope Mfg. Co., Philadelphia, Pa.
Filed Feb. 7, 1952, Serial No. 624,625. Published Feb. 10, 1953. Class 37.

574,281. pH Testing Paper. Jack Einstein, doing business as J. Einstein Company, Forest Hills, N. Y.
Filed Feb. 7, 1952, Serial No 624,637. Published Feb. 10, 1953. Class 37.

574,282. Ice Cream, Ice Cream Sundaes, and Ice Cream Cones. Jack Bond, Seattle, Wash., assignor to Portion Pack, Inc., Seattle, Wash., a corporation of Washington.
Filed Feb. 8, 1952, Serial No. 624,674. Published Feb. 10, 1953. Class 46.

574,283. Ice Cream, Ice Cream Sundaes, and Ice Cream Cones. Jack Bond, Seattle, Wash., assignor to Portion Pack, Inc., Seattle, Wash., a corporation of Washington.
Filed Feb. 8, 1952, Serial No. 624,676. Published Feb. 10, 1953. Class 46.

574,284. Composition Containing Vitamins and Minerals Used as an Obesity Control Product Sold Only on Prescription. The Stuart Company, Pasadena, Calif.
Filed Feb. 8, 1952, Serial No. 624,709. Published Feb. 10, 1953. Class 18.

574,285. Face Brick for Building Construction. Midland Brick and Tile Company, Chillicothe, Mo.
Filed Feb. 9, 1952, Serial No. 624,752. Published Jan. 13, 1953. Class 12.

574,286. Face and Dusting Powders, Dry and Cream Rouges, Etc. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 13, 1952, Serial No. 624,879. Published Jan. 13, 1953. Class 51.

574,287. Hair Straightening Cream. Perma-Strate Company, Memphis, Tenn.
Filed Feb. 14, 1952, Serial No. 624,968. Published Jan. 13, 1953. Class 51.

574,288. Electric Lamps. Wilmar Co., Inc., New York, N. Y.
Filed Feb. 15, 1952, Serial No. 625,055. Published Feb. 17, 1953. Class 21.

574,289. Filling and Surfacing Compound of a Plasterous Nature for Filling and Surfacing Cracked and Damaged Plaster, Wood, Brick, Board, and Similar Building Materials. Jelstone Products Limited, London, England.
Priority under Sec. 44(d). British Registration No. 703,586, filed Dec. 21, 1951.
Filed Feb. 16, 1952, Serial No. 625,070. Published Feb. 3, 1953. Class 12.

574,290. Children's Play Suits and Overalls. Morton Karten, Incorporated, New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,206. Published Feb. 10, 1953. Class 39.

574,291. Dog Deodorant With Insecticide Properties. Henry Raskin, Detroit, Mich.
Filed Feb. 19, 1952, Serial No. 625,225. Published Jan. 13, 1953. Class 51.

574,292. Perfume. Eugenia Smetisko (Smith), doing business as Theodore Genet, Elmhurst, Ill.
Filed Feb. 20, 1952, Serial No. 625,302. Published Jan. 13, 1953. Class 51.

574,293. Assembled Door Units Having Component Parts—Namely, Frame, Door Already Hinged to Frame, Trim, and Door Latch and Keeper. Wm. Cameron & Co., doing business under the name Ideal Company, Waco, Tex.
Filed Feb. 21, 1952, Serial No. 625,332. Published Jan. 20, 1953. Class 12.

574,294. Chamois. Atlantic Sponge & Chamois Corporation, New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,573. Published Feb. 10, 1953. Class 1.

574,295. Chamois. Atlantic Sponge & Chamois Corporation, New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,574. Published Feb. 10, 1953. Class 1.

574,296. Vitamin Preparation. The Wander Company, Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,776. Published Feb. 3, 1953. Class 18.

574,297. Various Radioactive Pharmaceuticals for Diagnostic and Therapeutic Use. Abbott Laboratories, North Chicago, Ill.
Filed Mar. 6, 1952, Serial No. 626,015. Published Feb. 3, 1953. Class 18.

574,298. Plastic Tile. Plastic Engineering, Inc., Cleveland, Ohio.
Filed Mar. 7, 1952, Serial No. 626,115. Published Feb. 3, 1953. Class 12.

574,299. Penicillin Derivative in Tablet Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,306. Published Feb. 10, 1953. Class 18.

574,300. Stapling Machines Used for Fastening Papers, Cardboard, Etc. Markwell Manufacturing Co., Inc., New York, N. Y.
Filed Mar. 12, 1952, Serial No. 626,333. Published Feb. 3, 1953. Class 23.

574,301. Phosphatic Preparation for Application to Metal Surfaces for Cleaning and Forming a Permanent Coating Thereon. Parker Rust Proof Company, Detroit, Mich.
Filed Mar. 12, 1952, Serial No. 626,335. Published Feb. 17, 1953. Class 52.

574,302. Hypnotic, Sedative, Analgesic, and Antispasmodic Compound. Abbott Laboratories, North Chicago, Ill.
Filed Mar. 13, 1952, Serial No. 626,358. Published Feb. 3, 1953. Class 18.

574,303. Metal Valves and Cocks for Controlling Flow of Gaseous Fluids. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Mar. 13, 1952, Serial No. 626,414. Published Feb. 17, 1953. Class 13.

574,304. Stone Cleaner in Powder Form. Chas. V. Zink & Sons, Detroit, Mich.
Filed Mar. 15, 1952, Serial No. 626,550. Published Feb. 17, 1953. Class 52.

574,305. Confection—Namely, a Frozen, Chocolate-Covered Ice Milk Bar. Coble Dairy Products, Inc., Lexington, N. C.
Filed Mar. 18, 1952, Serial No. 626,608. Published Feb. 10, 1953. Class 46.

574,306. Roofing Shingles. The Flintkote Company, New York, N. Y.
Filed Mar. 18, 1952, Serial No. 626,623. Published Jan. 20, 1953. Class 12.

574,307. Chinaware—Namely, Dishes. Grandma Moses Properties, Inc., New York, N. Y.
Filed Mar. 18, 1952, Serial No. 626,625. Published Feb. 3, 1953. Class 30.

574,308. Facial Make-Up Base. Lever Brothers Company, New York, N. Y.
Filed Mar. 18, 1952, Serial No. 626,630. Published Jan. 27, 1953. Class 51.

574,309. Food Product Packed Under Pressure so That It Is Automatically Whipped as It Is Ejected From the Container, Said Product Used in the Decoration and Adding to the Taste of Cakes, Pastry, Sundaes, Desserts, and the Like. Delsoy Distributors, Dearborn, Mich.
Filed Mar. 19, 1952, Serial No. 626,661. Published Feb. 10, 1953. Class 46.

574,310. Food Product Packed Under Pressure so That It Is Automatically Whipped as It Is Ejected From the Container, Said Product Used in the Decoration and Adding to the Taste of Cakes, Pastry, Sundaes, Desserts, and the Like. Delsoy Distributors, Dearborn, Mich.
Filed Mar. 19, 1952, Serial No. 626,662. Published Feb. 10, 1953. Class 46.

574,311. Pneumatic Tires. The General Tire & Rubber Company, Akron, Ohio.
Filed Mar. 19, 1952, Serial No. 626,668. Published Feb. 17, 1953. Class 35.

574,312. Foaming Bath and Hand Lotion. Northern Laboratories, Manitowoc, Wis., assignor to The Gillette Company, Boston, Mass., a corporation of Delaware.
Filed Mar. 19, 1952, Serial No. 626,698. Published Feb. 17, 1953. Class 51.

574,313. Assembled Pen or Brooder With Automatic Feeding Means and in Some Cases Electrical Heating Means for Rearing Infant Domesticated Animals, Particularly Piglets. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Mar. 20, 1952, Serial No. 626,746. Published Feb. 3, 1953. Class 50.

574,314. Naphthas. The R. J. Brown Company, St. Louis, Mo.
Filed Mar. 21, 1952, Serial No. 626,781. Published Feb. 17, 1953. Class 6.

574,315. Necklaces, Bracelets Not Including Watches, Earrings, Etc. Coro, Inc., New York, N. Y.
Filed Mar. 22, 1952, Serial No. 626,860. Published Feb. 3, 1953. Class 28.

574,316. Preparation for the Relief of Eye Irritations. Winthrop-Stearns Inc., New York, N. Y.
Filed Mar. 24, 1952, Serial No. 626,972. Published Feb. 3, 1953. Class 18.

574,317. Pharmaceutical Preparation Used as a Central Nervous System Stimulant for the Treatment of Mild Depressions and Obesity. Robert R. Schallenberger, doing business as Schallenberger & Co., San Francisco, Calif.
Filed Mar. 29, 1952, Serial No. 627,280. Published Feb. 17, 1953. Class 18.

574,318. Gasoline. Ashland Oil & Refining Company, Ashland, Ky.
Filed Mar. 31, 1952, Serial No. 627,311. Published Feb. 3, 1953. Class 15.

574,319. Petroleum Oil Compositions Useful as Mold Lubricants and Form Oils—Namely, Liquid Partings. Cities Service Oil Company, Bartlesville, Okla.
Filed Apr. 3, 1952, Serial No. 627,497. Published Feb. 3, 1953. Class 15.

574,320. Analgesic and Sedative Tablets as an Aid in the Relief of Headache, Nausea, Upset Stomach, Bleariness Due to Over Indulgence in Alcoholic Beverages. N. E. Dacus, doing business under the name The Copa Company, Portageville, Mo.
Filed Apr. 4, 1952, Serial No. 627,558. Published Feb. 17, 1953. Class 18.

574,321. Fine Aggregate Coated With Chemically Treated Asphalt for Resurfacing and Patching Any Dry or Moist Surface, Concrete, Tile, Wood, or Asphalt. Berry Asphalt Company, Chicago, Ill., and Magnolia, Ark.
Filed Apr. 5, 1952, Serial No. 627,620. Published Feb. 17, 1953. Class 12.

574,322. Solvents Used in Dry Cleaning. John B. Hyde, Marshall, Tex.
Filed Apr. 10, 1952, Serial No. 627,883. Published Feb. 10, 1953. Class 52.

574,323. Wax Candles. Will & Baumer Candle Co., Inc., Syracuse, N. Y.
Filed Apr. 12, 1952, Serial No. 628,020. Published Feb. 3, 1953. Class 15.

574,324. Concrete Building Blocks. Webster Block Company, Inc., Brentwood, Mo.
Filed Apr. 14, 1952, Serial No. 628,072. Published Jan. 13, 1953. Class 12.

574,325. Sound-Absorbing Board Materials — Namely, Sheets of Sound-Absorbing Material Adapted To Be Suspended in Rooms for Sound-Absorption Purposes. Robert R. Abrams, East Orange, N. J.
Filed Apr. 17, 1952, Serial No. 628,182. Published Feb. 17, 1953. Class 12.

574,326. Rodenticides. Warcin Company, Chicago, Ill.
Filed Apr. 17, 1952, Serial No. 628,235. Published Feb. 17, 1953. Class 6.

574,327. Folding Stairways. Precision Parts Corporation, Nashville, Tenn.
Filed Apr. 18, 1952, Serial No. 628,294. Published Feb. 17, 1953. Class 12.

574,328. Gasoline. Time Oil Co., Seattle, Wash., and Los Angeles, Calif.
Filed Apr. 18, 1952, Serial No. 628,307. Published Feb. 3, 1953. Class 15.

574,329. Finished Flagstone and Building Stone. Jacob's Creek Flagstone Company, Inc., Mount Gilead, N. C.
Filed Apr. 16, 1952, Serial No. 628,341. Published Jan. 20, 1953. Class 12.

574,330. Electrical Condensers and Resistors. Erie Resistor Corporation, Erie, Pa.
Filed Apr. 19, 1952, Serial No. 628,350. Published Feb. 10, 1953. Class 21.

574,331. Milking Machines, Teat Cups, and Parts Thereof. The De Laval Separator Company, Poughkeepsie, N. Y.
Filed Apr. 23, 1952, Serial No. 628,523. Published Feb. 3, 1953. Class 23.

574,332. Girls' and Misses' Panties, Slips, Gowns, Pajamas, Negligees, and Robes. Edison Textiles, Inc., Edison, Ga.
Filed Apr. 25, 1952, Serial No. 628,682. Published Feb. 17, 1953. Class 39.

574,333. Ladies' Blouses, Shirtwaists, and Waists. Lerner Blouse Co., Philadelphia, Pa.
Filed Apr. 25, 1952, Serial No. 628,698. Published Feb. 17, 1953. Class 39.

574,334. Canned Salmon. Whitney & Company, Seattle, Wash.
Filed Apr. 26, 1952, Serial No. 628,801. Published Feb. 17, 1953. Class 46.

574,335. Ladies' and Misses' Uniforms for Nurses, Doctors, Dentists, Laboratory Technicians, Manicurists, Maids, Etc., and Uniform Dresses. White Swan Uniforms, Inc., Yonkers, N. Y.
Filed Apr. 29, 1952, Serial No. 628,885. Published Feb. 10, 1953. Class 39.

574,336. Little Girls' Lingerie—Namely, Slips, Panties, Nightgowns, and Pajamas. William H. Schiegel, doing business as Polly-Betts Undies, Reading, Pa.
Filed Apr. 30, 1952, Serial No. 628,962. Published Feb. 10, 1953. Class 39.

574,337. Molding Clay. General Glaze Corporation, Baltimore, Md.
Filed May 1, 1952, Serial No. 629,015. Published Feb. 3, 1953. Class 1.

574,338. Milling Machines for Use in Finishing Printing Plates. The Monomelt Co. Inc., Minneapolis, Minn.
Filed May 1, 1952, Serial No. 629,034. Published Feb. 3, 1953. Class 23.

574,339. Detergent Preparation—Namely, a Detergent and Disinfectant for General Hospital Use. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed May 1, 1952, Serial No. 629,038. Published Feb. 10, 1953. Class 52.

574,340. Gasoline. Skelly Oil Company, Kansas City, Mo.
Filed May 1, 1952, Serial No. 629,062. Published Feb. 10, 1953. Class 15.

574,341. Flavoring Extracts Used in the Manufacture of Bakery Goods and Confections. Flavor Corporation of America, Chicago, Ill.
Filed May 3, 1952, Serial No. 629,160. Published Jan. 13, 1953. Class 46.

574,342. Vitamin Preparation. Burton-Edward Company, Oklahoma City, Okla.
Filed May 7, 1952, Serial No. 629,282. Published Feb. 3, 1953. Class 18.

574,343. Women's and Misses' Coats, Suits, Dresses, Blouses, Halters, Outer Skirts, Slips, Etc. Siegel-Shulman, Inc., Miami Beach, Fla.
Original filed, act of 1946, Supplemental Register, May 8, 1952; amended to application, Principal Register, Nov. 28, 1952, Serial No. 629,395. Published Feb. 10, 1953. Class 39.

574,344. Antiseptic Baby Cream for the Treatment of Skin Irritations. Calvital Company, Inc., Mount Vernon, N. Y.
Filed May 9, 1952, Serial No. 629,422. Published Feb. 3, 1953. Class 18.

574,345. Fiber Composition Board for Interior and Exterior Use and for Surface Coated Fiber Board. Minnesota and Ontario Paper Company, Minneapolis, Minn.
Filed May 10, 1952, Serial No. 629,501. Published Jan. 20, 1953. Class 12.

574,346. Mechanically Grooved Phonograph Records. Pacific Union Conference of Seventh-Day Adventists, doing business as Chapel Records, Glendale, Calif.
Filed May 12, 1952, Serial No. 629,556. Published Feb. 17, 1953. Class 36.

574,347. Scarfs and Kerchiefs. Glenader Textile Corp., New York, N. Y.
Filed May 14, 1952, Serial No. 629,669. Published Feb. 10, 1953. Class 39.

574,348. Wetting Agents. Process Chemicals Company, Los Angeles, Calif.
Filed May 14, 1952, Serial No. 629,689. Published Feb. 17, 1953. Class 6.

574,349. Sheets of Synthetic Plastic Materials Used in the Fabrication of Various Articles. Durlin Co., Newark, N. J.
Filed May 16, 1952, Serial No. 629,781. Published Feb. 10, 1953. Class 1.

574,350. Dates. Schroeder Bros., Inc., New York, N. Y.
Filed May 16, 1952, Serial No. 629,819. Published Feb. 10, 1953. Class 46.

574,351. Wall Reinforcing Member Comprising a Bent or Fabricated Unit, Etc. Harold L. Spaight, Cedar Rapids, Iowa.
Filed May 16, 1952, Serial No. 629,826. Published Jan. 20, 1953. Class 12.

574,352. Box Cover Paper. The Champion Paper and Fibre Company, Hamilton, Ohio.
Filed May 17, 1952, Serial No. 629,839. Published Feb. 10, 1953. Class 37.

574,353. Textile Carpets and Rugs. Callaway Mills Company, La Grange, Ga.
Filed May 20, 1952, Serial No. 629,932. Published Feb. 17, 1953. Class 42.

574,354. Whiskey. United Distillers (of America) Ltd., Baltimore, Md., assignor to Joseph S. Finch and Company, New York, N. Y., a corporation of Pennsylvania.
Filed May 20, 1952, Serial No. 629,977. Published Feb. 10, 1953. Class 49.

574,355. Therapeutic Vaginal Tablet for Use in Vaginal Disorders Such as Gonorrhea, Etc. The Purdue Frederick Company, New York, N. Y.
Filed May 21, 1952, Serial No. 630,022. Published Feb. 17, 1953. Class 18.

574,356. Plastic Disposable Syringe. Abbott Laboratories, North Chicago, Ill.
Filed May 24, 1952, Serial No. 630,178. Published Feb. 3, 1953. Class 44.

574,357. Boys' and Girls' Knitted Outerwear—Namely, Sweaters, Socks, Skirts, Trousers, Sweater Coats, T Shirts, Shorts, and Any of the Above in Combination. Playmore Knits of California, Inc., Los Angeles, Calif.
Filed May 24, 1952, Serial No. 630,209. Published Feb 10, 1953. Class 39.

574,358. Clay. Walter Skeoch, doing business under the firm name and style of Southern California Minerals Company, Los Angeles, Calif.
Filed May 26, 1952, Serial No. 630,287. Published Feb. 3, 1953. Class 1.

574,359. Knitting Yarn. Pauline Denham Yarns, Petaluma, Calif.
Filed June 2, 1952, Serial No. 630,588. Published Feb. 10, 1953. Class 43.

574,360. Fuller's Earth Having Oil and Water Adsorption Properties for General Use in the Industrial Arts. Attapulgus Clay Company, Philadelphia, Pa., assignor, by mesne assignments, to Minerals Separation North American Corporation, Lakeland, Fla., a corporation of Maryland.
Filed June 3, 1952, Serial No. 630,660. Published Feb. 10, 1953. Class 1.

574,361. Emollient Cream for Poison Oak, Poison Ivy, and Minor Skin Irritations. Hannah Laboratories, Inc., Monterey, Calif.
Filed June 9, 1952, Serial No. 630,931. Published Jan. 20, 1953. Class 18.

574,362. Woodwind Musical Instruments Including Clarinets, Oboes, Bassoons, Flutes, Piccolos, Saxophones, and Parts Thereof. Linton Mfg. Co., Inc., Elkhart, Ind.
Filed June 11, 1952, Serial No. 631,058. Published Feb. 17, 1953. Class 36.

574,363. Baler Twine and Binder Twine. Darrell-Dillon Company, Hampton, Iowa.
Filed June 12, 1952, Serial No. 631,095. Published Feb. 17, 1953. Class 7.

574,364. Hair Treating Article—Namely, a Mesh Head Covering Impregnated With a Hair Setting Substance. Edgar Products, Brooklyn, N. Y.
Filed June 13, 1952, Serial No. 631,152. Published Jan. 20, 1953. Class 51.

574,365. Loose-Leaf Folders and Blank Forms. Phillip Witz, Denison, Tex.
Filed June 13, 1952, Serial No. 631,192. Published Feb. 10, 1953. Class 37.

574,366. Corsets, Corselets, Girdles, Bandeaux, Panties, Brassières, and Foundation Garments. Vanity Corset Company, Inc., New York, N. Y.
Filed June 20, 1952, Serial No. 631,510. Published Feb. 10, 1953. Class 39.

574,367. Women's Dresses, Coats, Skirts, Blouses, Hats, and Scarves. Societe Anonyme Jeanne Lanvin, Paris, France.
Filed June 2, 1952, Serial No. 631,519. Published Feb. 10, 1953. Class 39.

574,368. Locking Latches and Buckles. Aircraft Armaments, Inc., Baltimore, Md.
Filed June 23, 1952, Serial No. 631,592. Published Feb. 17, 1953. Class 25.

574,369. Dungarees. Reliance Manufacturing Company, Chicago, Ill.
Filed June 24, 1952, Serial No. 631,688. Published Feb. 10, 1953. Class 39.

574,370. Remedy Used To Cure Animal Sarcoptic Mange. Elva H. Bradford, doing business as Presto Mange Remedy Co., Oklahoma City, Okla.
Filed June 23, 1952, Serial No. 631,964. Published Feb. 10, 1953. Class 18.

574,371. Hypodermic Needles. George W. Jacoby, Jr.; doing business as Lee Manufacturing Co., Wooster, Ohio.
Filed July 2, 1952, Serial No. 632,088. Published Feb. 3, 1953. Class 44.

574,372. Women's and Misses' Knitted Sweaters. Olympic Knitwear, Inc., New York, N. Y.
Filed July 2, 1952, Serial No. 632,096. Published Feb. 10, 1953. Class 39.

574,373. Infants', Young Boys', Young Girls', Men's, and Women's Under and Outer Shirts, Etc. Wonderknit Corporation, Lindenhurst, N. Y.
Filed July 3, 1952, Serial No. 632,138. Published Feb. 10, 1953. Class 39.

574,374. Finger Rings of Precious Metal Mounted With Precious and Semi-Precious Stones. Harry Rotter, Chicago, Ill.
Filed July 5, 1952, Serial No. 632,176. Published Feb. 3, 1953. Class 28.

574,375. Paint Brushes. Gerts Lumbard & Co., Chicago, Ill.
Filed July 10, 1952, Serial No. 632,369. Published Feb. 17, 1953. Class 29.

574,376. Decorative Asbestos Siding Sheets. Johns-Manville Corporation, New York, N. Y.
Filed July 11, 1952, Serial No. 632,429. Published Jan. 27, 1953. Class 12.

574,377. Simulated Pearls and Ornaments Incorporating the Same, Consisting of Necklaces, Bracelets, Earrings, Ear Screws, Amulets, and Pin and Dress Ornaments, but Not Including Watches. Artlac Inc., New York, N. Y.
Filed July 12, 1952, Serial No. 632,462. Published Feb. 10, 1953. Class 28.

574,378. Fiberboard Sheathing. Johns-Manville Corporation, New York, N. Y.
Filed July 15, 1952, Serial No. 632,565. Published Jan. 27, 1953. Class 12.

574,379. Rubber Hose Reenforced With Fabric or Metal and Fabric, and Hose Assemblies Comprising Lengths of Rubber Hose Reenforced With Fabric or Metal and Fabric and Having Couplings or Fittings Attached Thereto. Stratoflex, Inc., Fort Worth, Tex.
Filed July 16, 1952, Serial No. 632,634. Published Feb. 17, 1953. Class 35.

574,380. Leather. A. C. Lawrence Leather Company, Peabody, Mass., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois.
Filed July 17, 1952, Serial No. 632,677. Published Feb. 10, 1953. Class 1.

574,381. Enamel Type Coating To Be Applied to Concrete Blocks, Building Tile, Concrete Surfaces, Wallboard, Etc. The Sherwin-Williams Company, Cleveland, Ohio.
Filed July 17, 1952, Serial No. 632,698. Published Feb. 17, 1953. Class 16.

574,382. Sedative. American Cyanamid Company, New York, N. Y.
Filed July 18, 1952, Serial No. 632,709. Published Jan. 20, 1953. Class 18.

574,383. Thin Gauge Plastic Sheeting for General Industrial Use. The Cambriflex Corporation, Lawrence, Mass.
Filed July 18, 1952, Serial No. 632,715. Published Feb. 10, 1953. Class 1.

574,384. Medicinal Preparation Used in the Treatment of Hormone Deficiencies and Allied Disorders. Organon Inc., Orange, N. J.
Filed July 28, 1952, Serial No. 633,165. Published Jan. 27, 1953. Class 18.

574,385. Pharmaceutical Preparation for Intramuscular Injection for Use in Alleviating the Symptoms of Peptic and Duodenal Ulcers Accompanied With Vitamin C Deficiencies. Torigian Laboratories, Inc., Queens Village, N. Y.
Filed July 29, 1952, Serial No. 633,228. Published Jan. 27, 1953. Class 18.

574,386. Antithyroid Mixture. The Wander Company, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,397. Published Feb. 10, 1953. Class 18.

574,387. Wrist Watches. Meyer Robbin, doing business as Robbin Products, Los Angeles, Calif.
Filed Aug. 4, 1952, Serial No. 633,466. Published Feb. 10, 1953. Class 27.

574,388. Fresh Pineapples and Papayas. Sea View Farms, Ltd., Honolulu, Hawaii.
Filed Aug. 11, 1952, Serial No. 633,740. Published Feb. 10, 1953. Class 46.

574,389. Saponified Polyvinyl Acetate. Chemische Forschungsgeilschaft m. b. H., Munich, Bavaria, Germany.
Filed July 12, 1952, Serial No. 633,821. Published Feb. 17, 1953. Class 6.

574,390. Plumbing Fixtures—Namely, One-Piece Closets, Closet Bowls, Urinals, and Bidets, All of Vitreous China, and Urinals of Enameled Ironware. Kohler Co., Kohler, Wis.
Filed Aug. 15, 1952, Serial No. 633,987. Published Feb. 17, 1953. Class 13.

574,391. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Aug. 16, 1952, Serial No. 634,043. Published Feb. 3, 1953. Class 28.

574,392. Combination Removable Strainer Cup and Waste Control. Kohler Co., Kohler, Wis.
Filed Aug. 18, 1952, Serial No. 634,089. Published Feb. 17, 1953. Class 13.

574,393. Mixing Valves. Kohler Co., Kohler, Wis.
Filed Aug. 18, 1952, Serial No. 634,091. Published Feb. 17, 1953. Class 13.

574,394. Multiple Vitamin Preparation for the Treatment of Vitamin Deficiency. Parke, Davis & Company, Detroit, Mich.
Filed Aug. 18, 1952, Serial No. 634,108. Published Feb. 10, 1953. Class 18.

574,395. Boudoir, Desk, and Mantle Clocks, Watches, and Parts Thereof. Stolz Freres, S. A. Fabrique d'Horlogerie Angelus, Le Locle, Switzerland.
Filed Aug. 26, 1952, Serial No. 634,408. Published Feb. 3, 1953. Class 27.

574,396. Watches and Clocks. Concord Watch Co. Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,521. Published Feb. 3, 1953. Class 27.

574,397. Cotton Duck. The W. A. Handley Manufacturing Company, Roanoke, Ala.
Filed Aug. 28, 1952, Serial No. 634,592. Published Feb. 17, 1953. Class 42.

574,398. Watches. Kingston Watch Co., New York, N. Y.
Filed Aug. 29, 1952, Serial No. 634,645. Published Feb. 3, 1953. Class 27.

574,399. Disposable Vaporizers Having Insecticide Molded Thereto. Vaporette, Inc., Dallas, Tex.
Filed Sept. 8, 1952, Serial No. 635,008. Published Feb. 10, 1953. Class 6.

574,400. Finger Rings and Mountings Therefor. Mayer Bros., Seattle, Wash.
Filed Sept. 9, 1952, Serial No. 635,044. Published Feb. 10, 1953. Class 28.

574,401. Finger Rings. 20th Century Novelty Co., New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,121. Published Feb. 10, 1953. Class 28.

574,402. Diamond Rings. U. S. Jewelry Co. Inc., Baltimore, Md.
Filed Sept. 15, 1952, Serial No. 635,281. Published Feb. 10, 1953. Class 28.

574,403. Textile Fabrics in the Piece of Cotton, Rayon, Acetate, and Other Synthetic Fibers. Dan River Mills, Incorporated, Danville, Va.
Filed Oct. 3, 1952, Serial No. 636,118. Published Feb. 17, 1953. Class 42.

574,404. Molds for Forming Impressions of Imitation Stone on Cement, Plaster, and Like Walls. Janet P. Salomon, doing business as Lanonite of America, Milwaukee, Wis.
Filed Oct. 17, 1952, Serial No. 636,810. Published Feb. 17, 1953. Class 12.

574,405. Medicinal and Pharmaceutical Preparations—Namely, Antipyretics, Etc. The Bowman Brothers Drug Co., Canton, Ohio.
Filed Oct. 31, 1952, Serial No. 637,424. Published Feb. 10, 1953. Class 18.

574,406. Biological Preparation for the Treatment of Infectation With Worms. Organon Inc., Orange, N. J.
Filed Nov. 4, 1952, Serial No. 637,608. Published Jan. 20, 1953. Class 18.

574,407. Grooved Phonograph Records. Gramercy Records, Inc., New York, N. Y.
Filed Nov. 6, 1952, Serial No. 637,708. Published Feb. 10, 1953. Class 36.

574,408. Wire Reinforced Rubber Hose Used for Connections in Cooling Systems of Internal Combustion Engines. Socony-Vacuum Oil Company, Incorporated, New York, N. Y.
Filed Nov. 8, 1952, Serial No. 637,842. Published Feb. 17, 1953. Class 35.

574,409. Broad Spectrum Antibiotic Agent for the Treatment of Infections Caused by Pneumococcus, Etc. Winthrop-Stearns Inc., New York, N. Y.
Filed Nov. 13, 1952, Serial No. 638,027. Published Feb. 3, 1953. Class 18.

574,410. Diagnostic Opaquing Preparation. General Electric Company, Schenectady, N. Y.
Filed Oct. 30, 1952, Serial No. 638,182. Published Feb. 10, 1953. Class 18.

574,411. Weed Killer. Spencer Chemical Company, Kansas City, Mo.
Filed Nov. 17, 1952, Serial No. 638,220. Published Feb. 17, 1953. Class 6.

574,412. Compound for the Alleviation of Hypertension. The Wander Company, Chicago, Ill.
Filed Nov. 19, 1952, Serial No. 638,341. Published Feb. 10, 1953. Class 18.

Service Marks

574,413. Entertainment Service Through the Medium of Radio and Television Broadcast Programs Consisting of Reviews of Sporting Events. Joseph Musial, Manhasset, N. Y.
Filed May 23, 1950, Serial No. 597,971. Published Feb. 17, 1953. Class 107.

574,414. Fabrication of Material Handling Conveyers and Material Handling Equipment on a Custom Basis. Mathews Conveyer Company, Ellwood City, Pa.
Filed Dec. 15, 1950, Serial No. 607,712. Published Feb. 17, 1953. Class 106.

574,415. Spraying on Insulation in Buildings in General. Sprayo-Flake Company, Chicago, Ill.
Filed May 29, 1951, Serial No. 614,520. Published Feb. 17, 1953. Class 103.

574,416. Spraying on Insulation in Buildings in General. Sprayo-Flake Company, Chicago, Ill.
Filed May 29, 1951, Serial No. 614,521. Published Feb. 17, 1953. Class 103.

574,417. Mortuary and Funeral Direction Services. Streeper Funeral Homes, Alton, Ill.
Filed July 20, 1951, Serial No. 616,733. Published Feb. 17, 1953. Class 100.

574,418. Television Program Broadcasting. Southern Radio & Television Equipment Company, Miami, Fla.
Filed Sept. 20, 1951, Serial No. 619,041. Published Feb. 17, 1953. Class 104.

574,419. Treating Fabric of Others With a Water Repellent Finish. Triangle Finishing Corp., Johnstown, N. Y.
Filed Feb. 25, 1952, Serial No. 625,500. Published Feb. 17, 1953. Class 106.

574,420. Radio and Television Broadcasting Service. Allen B. Du Mont Laboratories, Inc., Clifton, N. J.
Filed Mar. 15, 1952, Serial No. 626,498. Published Feb. 17, 1953. Class 104.

Collective Mark

574,421. Lumber, Millwork, and Lath. Western Pine Association, Portland, Oreg.
Filed Dec. 6, 1951, Serial No. 622,186. Published Feb. 17, 1953. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

574,422. (Class 21. Electrical Apparatus, Machines, and Supplies.) Continental Silver Co. Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Mar. 31, 1948; amended to application, Supplemental Register, Dec. 26, 1952, Serial No. 553,464.

MUL-T-FUSE

For Electric Percolators.
Claims use since Mar. 18, 1948.

574,423. (Class 19. Vehicles.) The Edro Corporation, New Britain, Conn. Original filed, act of 1946, Principal Register, Apr. 5, 1948; amended to application, Supplemental Register, Aug. 6, 1952, Serial No. 553,829.

SAF-T-AID

For Automobile Windshield Anti-Headlight-Glare Shields To Be Installed on Windshields and Rear-View Mirrors for Eliminating the Glare of Headlights of Approaching Motor Vehicles.
Claims use since July 1946.

574,371. Hypodermic Needles. George W. Jacoby, Jr., doing business as Lee Manufacturing Co., Wooster, Ohio.
Filed July 2, 1952, Serial No. 632,088. Published Feb. 3, 1953. Class 44.

574,372. Women's and Misses' Knitted Sweaters. Olympic Knitwear, Inc., New York, N. Y.
Filed July 2, 1952, Serial No. 632,096. Published Feb. 10, 1953. Class 39.

574,373. Infants', Young Boys', Young Girls', Men's, and Women's Under and Outer Shirts, Etc. Wonderknit Corporation, Lindenhurst, N. Y.
Filed July 3, 1952, Serial No. 632,138. Published Feb. 10, 1953. Class 39.

574,374. Finger Rings of Precious Metal Mounted With Precious and Semi-Precious Stones. Harry Rotter, Chicago, Ill.
Filed July 5, 1952, Serial No. 632,176. Published Feb. 3, 1953. Class 28.

574,375. Paint Brushes. Gerts Lumbard & Co., Chicago, Ill.
Filed July 10, 1952, Serial No. 632,369. Published Feb. 17, 1953. Class 29.

574,376. Decorative Asbestos Siding Sheets. Johns-Manville Corporation, New York, N. Y.
Filed July 11, 1952, Serial No. 632,429. Published Jan. 27, 1953. Class 12.

574,377. Simulated Pearls and Ornaments Incorporating the Same, Consisting of Necklaces, Bracelets, Earrings, Ear Screws, Amulets, and Pin and Dress Ornaments, but Not Including Watches. Artlac Inc., New York, N. Y.
Filed July 12, 1952, Serial No. 632,462. Published Feb. 10, 1953. Class 28.

574,378. Fiberboard Sheathing. Johns-Manville Corporation, New York, N. Y.
Filed July 15, 1952, Serial No. 632,565. Published Jan. 27, 1953. Class 12.

574,379. Rubber Hose Reenforced With Fabric or Metal and Fabric, and Hose Assemblies Comprising Lengths of Rubber Hose Reenforced With Fabric or Metal and Fabric and Having Couplings or Fittings Attached Thereto. Stratoflex, Inc., Fort Worth, Tex.
Filed July 16, 1952, Serial No. 632,634. Published Feb. 17, 1953. Class 35.

574,380. Leather. A. C. Lawrence Leather Company, Peabody, Mass., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois.
Filed July 17, 1952, Serial No. 632,677. Published Feb. 10, 1953. Class 1.

574,381. Enamel Type Coating To Be Applied to Concrete Blocks, Building Tile, Concrete Surfaces, Wallboard, Etc. The Sherwin-Williams Company, Cleveland, Ohio.
Filed July 17, 1952, Serial No. 632,698. Published Feb. 17, 1953. Class 16.

574,382. Sedative. American Cyanamid Company, New York, N. Y.
Filed July 18, 1952, Serial No. 632,709. Published Jan. 20, 1953. Class 18.

574,383. Thin Gauge Plastic Sheeting for General Industrial Use. The Cambridge Corporation, Lawrence, Mass.
Filed July 18, 1952, Serial No. 632,715. Published Feb. 10, 1953. Class 1.

574,384. Medicinal Preparation Used in the Treatment of Hormone Deficiencies and Allied Disorders. Organon Inc., Orange, N. J.
Filed July 28, 1952, Serial No. 633,165. Published Jan. 27, 1953. Class 18.

574,385. Pharmaceutical Preparation for Intramuscular Injection for Use in Alleviating the Symptoms of Peptic and Duodenal Ulcers Accompanied With Vitamin C Deficiencies. Torigian Laboratories, Inc., Queens Village, N. Y.
Filed July 29, 1952, Serial No. 633,228. Published Jan. 27, 1953. Class 18.

574,386. Antithyroid Mixture. The Wander Company, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,397. Published Feb. 10, 1953. Class 18.

574,387. Wrist Watches. Meyer Robbin, doing business as Robbin Products, Los Angeles, Calif.
Filed Aug. 4, 1952, Serial No. 633,466. Published Feb. 10, 1953. Class 27.

574,388. Fresh Pineapples and Papayas. Sea View Farms, Ltd., Honolulu, Hawaii.
Filed Aug. 11, 1952, Serial No. 633,740. Published Feb. 10, 1953. Class 46.

574,389. Saponified Polyvinyl Acetate. Chemische Forschungsgellschaft m. b. H., Munich, Bavaria, Germany.
Filed July 12, 1952, Serial No. 633,821. Published Feb. 17, 1953. Class 6.

574,390. Plumbing Fixtures—Namely, One-Piece Closets, Closet Bowls, Urinals, and Bidets, All of Vitreous China, and Urinals of Enameled Ironware. Kohler Co., Kohler, Wis.
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574,391. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Aug. 16, 1952, Serial No. 634,043. Published Feb. 3, 1953. Class 28.

574,392. Combination Removable Strainer Cup and Waste Control. Kohler Co., Kohler, Wis.
Filed Aug. 18, 1952, Serial No. 634,089. Published Feb. 17, 1953. Class 13.

574,393. Mixing Valves. Kohler Co., Kohler, Wis.
Filed Aug. 18, 1952, Serial No. 634,091. Published Feb. 17, 1953. Class 13.

574,394. Multiple Vitamin Preparation for the Treatment of Vitamin Deficiency. Parke, Davis & Company, Detroit, Mich.
Filed Aug. 18, 1952, Serial No. 634,108. Published Feb. 10, 1953. Class 18.

574,395. Boudoir, Desk, and Mantle Clocks, Watches, and Parts Thereof. Stolz Freres, S. A. Fabrique d'Horlogerie Angelus, Le Locle, Switzerland.
Filed Aug. 26, 1952, Serial No. 634,498. Published Feb. 3, 1953. Class 27.

574,396. Watches and Clocks. Concord Watch Co. Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,521. Published Feb. 3, 1953. Class 27.

574,397. Cotton Duck. The W. A. Handley Manufacturing Company, Roanoke, Ala.
Filed Aug. 28, 1952, Serial No. 634,502. Published Feb. 17, 1953. Class 42.

574,398. Watches. Kingston Watch Co., New York, N. Y.
Filed Aug. 29, 1952, Serial No. 634,645. Published Feb. 3, 1953. Class 27.

574,399. Disposable Vaporizers Having Insecticide Molded Thereto. Vaporette, Inc., Dallas, Tex.
Filed Sept. 8, 1952, Serial No. 635,008. Published Feb. 10, 1953. Class 6.

574,400. Finger Rings and Mountings Therefor. Mayer Bros., Seattle, Wash.
Filed Sept. 9, 1952, Serial No. 635,044. Published Feb. 10, 1953. Class 28.

574,401. Finger Rings. 20th Century Novelty Co., New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,121. Published Feb. 10, 1953. Class 28.

574,402. Diamond Rings. U. S. Jewelry Co. Inc., Baltimore, Md.
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574,403. Textile Fabrics in the Piece of Cotton, Rayon, Acetate, and Other Synthetic Fibers. Dan River Mills, Incorporated, Danville, Va.
Filed Oct. 3, 1952, Serial No. 636,118. Published Feb. 17, 1953. Class 42.

574,404. Molds for Forming Impressions of Imitation Stone on Cement, Plaster, and Like Walls. Janet P. Salomon, doing business as Lanonite of America, Milwaukee, Wis.
Filed Oct. 17, 1952, Serial No. 636,810. Published Feb. 17, 1953. Class 12.

574,405. Medicinal and Pharmaceutical Preparations—Namely, Antipyretics, Etc. The Bowman Brothers Drug Co., Canton, Ohio.
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574,406. Biological Preparation for the Treatment of Infectation With Worms. Organon Inc., Orange, N. J.
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574,407. Grooved Phonograph Records. Gramercy Records, Inc., New York, N. Y.
Filed Nov. 6, 1952, Serial No. 637,708. Published Feb. 10, 1953. Class 36.

574,408. Wire Reinforced Rubber Hose Used for Connections in Cooling Systems of Internal Combustion Engines. Socony-Vacuum Oil Company, Incorporated, New York, N. Y.
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574,409. Broad Spectrum Antibiotic Agent for the Treatment of Infections Caused by Pneumococcus, Etc. Winthrop-Stearns Inc., New York, N. Y.
Filed Nov. 13, 1952, Serial No. 638,027. Published Feb. 3, 1953. Class 18.

574,410. Diagnostic Opaquing Preparation. General Electric Company, Schenectady, N. Y.
Filed Oct. 30, 1952, Serial No. 638,182. Published Feb. 10, 1953. Class 18.

574,411. Weed Killer. Spencer Chemical Company, Kansas City, Mo.
Filed Nov. 17, 1952, Serial No. 638,220. Published Feb. 17, 1953. Class 6.

574,412. Compound for the Alleviation of Hypertension. The Wander Company, Chicago, Ill.
Filed Nov. 19, 1952, Serial No. 638,341. Published Feb. 10, 1953. Class 18.

Service Marks

574,413. Entertainment Service Through the Medium of Radio and Television Broadcast Programs Consisting of Reviews of Sporting Events. Joseph Musial, Manhasset, N. Y.
Filed May 23, 1950, Serial No. 597,971. Published Feb. 17, 1953. Class 107.

574,414. Fabrication of Material Handling Conveyers and Material Handling Equipment on a Custom Basis. Mathews Conveyer Company, Ellwood City, Pa.
Filed Dec. 15, 1950, Serial No. 607,712. Published Feb. 17, 1953. Class 106.

574,415. Spraying on Insulation in Buildings in General. Sprayo-Flake Company, Chicago, Ill.
Filed May 29, 1951, Serial No. 614,520. Published Feb. 17, 1953. Class 103.

574,416. Spraying on Insulation in Buildings in General. Sprayo-Flake Company, Chicago, Ill.
Filed May 29, 1951, Serial No. 614,521. Published Feb. 17, 1953. Class 103.

574,417. Mortuary and Funeral Direction Services. Streeper Funeral Homes, Alton, Ill.
Filed July 20, 1951, Serial No. 616,733. Published Feb. 17, 1953. Class 100.

574,418. Television Program Broadcasting. Southern Radio & Television Equipment Company, Miami, Fla.
Filed Sept. 20, 1951, Serial No. 619,041. Published Feb. 17, 1953. Class 104.

574,419. Treating Fabric of Others With a Water Repellent Finish. Triangle Finishing Corp., Johnstown, N. Y.
Filed Feb. 25, 1952, Serial No. 625,500. Published Feb. 17, 1953. Class 106.

574,420. Radio and Television Broadcasting Service. Allen B. Du Mont Laboratories, Inc., Clifton, N. J.
Filed Mar. 15, 1952, Serial No. 626,498. Published Feb. 17, 1953. Class 104.

Collective Mark

574,421. Lumber, Millwork, and Lath. Western Pine Association, Portland, Oreg.
Filed Dec. 6, 1951, Serial No. 622,186. Published Feb. 17, 1953. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

574,422. (Class 21. Electrical Apparatus, Machines, and Supplies.) Continental Silver Co. Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Mar. 31, 1948; amended to application, Supplemental Register, Dec. 26, 1952, Serial No. 553,404.

MUL-T-FUSE

For Electric Percolators.
Claims use since Mar. 18, 1948.

574,423. (Class 19. Vehicles.) The Edro Corporation, New Britain, Conn. Original filed, act of 1946, Principal Register, Apr. 5, 1948; amended to application, Supplemental Register, Aug. 6, 1952, Serial No. 553,829.

SAF-T-AID

For Automobile Windshield Anti-Headlight-Glare Shields To Be Installed on Windshields and Rear-View Mirrors for Eliminating the Glare of Headlights of Approaching Motor Vehicles.
Claims use since July 1946.

574,424. (Class 21. Electrical Apparatus, Machines, and Supplies.) Klamath Iron Works, Klamath Falls, Oreg. Original filed, act of 1946, Principal Register, July 5, 1949; amended to application, Supplemental Register, May 25, 1950, Serial No. 581,532.

KLAMATH IRON WORKS.

The words "Iron Works" are disclaimed apart from the mark as shown.
For Electric Engines of the Large Stationary Type.
Claims use since July 28, 1947.

574,425. (Class 25. Locks and Safes.) J. Chesler & Sons, Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Mar. 13, 1950; amended to application, Supplemental Register, Mar. 26, 1952, Serial No. 593,974.

CHESLER SINCE 1916 BUILDERS HARDWARE • QUALITY LOCKSETS

For Locks.
Claims use since Jan. 23, 1950.

574,426. (Class 21. Electrical Apparatus, Machines, and Supplies.) American Brake Shoe Company, New York, N. Y. Original filed, act of 1946, Principal Register, June 21, 1950; amended to application, Supplemental Register, Apr. 14, 1951, Serial No. 599,478.

AUTO BAKE

For Infra-Red Oven for Drying Finishes Applied to Automotive Vehicles and the Like.
Claims use since Sept. 28, 1948.

574,427. (Class 40. Fancy Goods, Furnishings, and Notions.) Iris Edwards, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 11, 1950; amended to application, Supplemental Register, Sept. 30, 1952, Serial No. 603,618.

IRIS EDWARDS' "Comb-Brusher"

The name "Iris Edwards" is fanciful.
For Combination Hair Comb and Hair Brush.
Claims use since June 15, 1950.

574,428. (Class 44. Dental, Medical, and Surgical Appliances.) George H. Morgan, doing business as Tru-Mask Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Dec. 8, 1950; amended to application, Supplemental Register, Aug. 13, 1952, Serial No. 607,461.

TRU-MASK

For Respirators.
Claims use since Jan. 11, 1950.

574,429. (Class 18. Medicines and Pharmaceutical Preparations.) The Giessner Company, doing business as Lab-Tabs Co., Findlay, Ohio. Original filed, act of 1946, Principal Register, Dec. 9, 1950; amended to application, Supplemental Register, Sept. 12, 1952, Serial No. 607,497.

Lab-Tabs

For Tablets for the Treatment of Constipation Containing Methylcellulose.
Claims use since Nov. 1, 1950.

574,430. (Class 46. Foods and Ingredients of Foods.) Flower-Maid Bakery Products, Inc., Lexington, Ky. Original filed, act of 1946, Principal Register, Jan. 4, 1951; amended to application, Supplemental Register, Sept. 8, 1952, Serial No. 608,349.

Swirls & Twirls

For Doughnuts and Glazed Doughnut Twists.
Claims use since Nov. 10, 1950.

574,431. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) H. D. Hudson Manufacturing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Apr. 30, 1952, Serial No. 610,071.

SprudzeBoom

For Multiple Nozzle Attachment for Compression, Wheelbarrow, or Power-Type Sprayers Used for Applying Fungicides, Insecticides, Disinfectants, Cold Water Paints, Whitewash, and Similar Preparations in Sprayable Form.
Claims use since Sept. 30, 1948.

574,432. (Class 21. Electrical Apparatus, Machines, and Supplies.) Dulane, Inc., River Grove, Ill. Original filed, act of 1946, Principal Register, Feb. 17, 1951; amended to application, Supplemental Register, Jan. 2, 1953, Serial No. 610,205.

Butteryte

For Electrically Heated Butter Warmers.
Claims use since Jan. 1, 1950.

574,433. (Class 21. Electrical Apparatus, Machines, and Supplies.) Roger A. B. Heap, Lyme, Conn. Original filed, act of 1946, Principal Register, Mar. 16, 1951; amended to application, Supplemental Register, Dec. 26, 1952, Serial No. 611,423.

"SHARE-A-PHONE"

For Telephone Appliances, Namely, a Double Earpiece.
Claims use since Mar. 5, 1951.

574,434. (Class 33. Glassware.) The United Glass Bottle Manufacturers Limited, London, England. Original filed, act of 1946, Principal Register, Apr. 27, 1951; amended to application, Supplemental Register, Feb. 18, 1953, Serial No. 613,269.

KILNER

Applicant claims ownership of British Reg. No. 516,031, dated Oct. 16, 1930.
For Glass Fruit Preserving Jars.

574,435. (Class 18. Medicines and Pharmaceutical Preparations.) Drug Packaging, Inc., Pittsburgh, Pa. Original filed, act of 1946, Principal Register, June 8, 1951; amended to application, Supplemental Register, May 19, 1952, Serial No. 614,031.

"5" SHERMAN

For Dietary Supplement Containing Vitamins and Minerals and Other Food Elements.
Claims use since May 10, 1951.

574,436. (Class 51. Cosmetics and Toilet Preparations.) George E. Samar, doing business as Samar Cosmetic Co., Syracuse, N. Y. Original filed, act of 1946, Principal Register, July 5, 1951; amended to application, Supplemental Register, May 20, 1952, Serial No. 616,133.

SAMAR

For Cologne, Perfume, Face Powder, Skin Creams and Lipsticks.
Claims use since May 8, 1951.

574,437. (Class 46. Foods and Ingredients of Foods.) Fred Hill Packing Company, also doing business under the name Ralph Sechrest, Redlands, Calif. Original filed, act of 1946, Principal Register, Aug. 14, 1951; amended to application, Supplemental Register, July 11, 1952, Serial No. 617,661.

Coachella Best

For Fresh Citrus Fruits.
Claims use since June 27, 1951.

574,438. (Class 6, Chemicals and Chemical Compositions.) International Salt Company, Scranton, Pa. Original filed, act of 1946, Principal Register, Sept. 6, 1951; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 618,454.

KOOLER KUBE

For Salt Blocks for Use in Refrigeration Equipment.
Claims use since June 26, 1951.

574,439. (Class 18. Medicines and Pharmaceutical Preparations.) Morgan Products Corp., New York, N. Y., formerly Morgan-Sabaloi Products, Inc. Original filed, act of 1946, Principal Register, Oct. 6, 1951; amended to application, Supplemental Register, May 14, 1952, Serial No. 619, 677.

LUGOLCAPS

For Medicinal Preparation for Use Against Hyperthyroidism, Arteriosclerosis, Allergies, Arthritis, and as a Deobstruent in Toxic Conditions.
Claims use since Nov. 10, 1949.

574,440. (Class 12, Construction Materials.) William G. Stremmel, doing business as Dustite Products Company, Dayton, Ohio. Original filed, act of 1946, Principal Register, Oct. 22, 1951; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 620,327.

Dustite

For Resilient Window Seal Strip.
Claims use since Aug. 25, 1951.

574,441. (Class 18. Medicines and Pharmaceutical Preparations.) Rose A. Shear, doing business under the firm name of Shear's Laboratories, Lancaster, Pa. Original filed, act of 1946, Principal Register, Oct. 30, 1951; amended to application, Supplemental Register, Oct. 24, 1952, Serial No. 620,693.

DR. SHEAR'S Rx

For Cold Capsules.
Claims use since October 1949.

574,442. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Anderson, Miller & Poston Mfg. Co., Spokane, Wash. Original filed, act of 1946, Principal Register, Nov. 13, 1951; amended to application, Supplemental Register, Dec. 22, 1952, Serial No. 621,121.

AUTO-LOK

The drawing is lined for black.
For Tubular Pipes and Pipe Fittings To Form a Conduit for Irrigation Purposes.
Claims use since Feb. 25, 1950.

574,443. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) American Bleached Goods Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 30, 1951; amended to application, Supplemental Register, May 9, 1952, Serial No. 621,853.

QUALITY FIRST

BECAUSE QUALITY LASTS

For Cotton and Rayon Piece Goods.
Claims use since January 1951.

574,444. (Class 1. Raw or Partly Prepared Materials.) Southern States Cooperative, Inc., Richmond, Va. Original filed, act of 1946, Principal Register, Dec. 7, 1951; amended to application, Supplemental Register, Nov. 26, 1952, Serial No. 622,233.

"PICK OF THE CROP"

For Seed Potatoes.
Claims use since Nov. 14, 1951.

574,445. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Cameo Curtains, Inc., New York, N. Y. Filed Dec. 21, 1951, Serial No. 622,740.



For Window Curtains.
Claims use since 1945.

574,446. (Class 44. Dental, Medical, and Surgical Appliances.) Albert S. Rogell, Hollywood, Calif. Original filed, act of 1946, Principal Register, Jan. 28, 1952; amended to application, Supplemental Register, Dec. 15, 1952, Serial No. 624,207.



The word "Electro" is disclaimed apart from the mark as shown.
For Flexible, Elongated, Electrical Heating Pad Adapted To Be Wrapped Around Parts of a Body for Therapeutic Purposes.
Claims use since Nov. 7, 1951.

574,447. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Winko-Matic Signal Company, Lorain, Ohio. Original filed, act of 1946, Principal Register, Feb. 14, 1952; amended to application, Supplemental Register, Nov. 26, 1952, Serial No. 624,983.

"WINKO-MATIC"

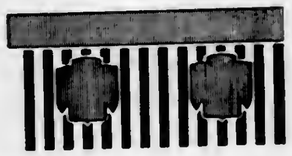
For Flasher-Light Unit for Use With Roadside Warning Signs.
Claims use since Jan. 1, 1946.

574,448. (Class 44. Dental, Medical, and Surgical Appliances.) Walter J. Aagesen, Anderson, Ind. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Feb. 5, 1953, Serial No. 625,088.

"DRI-PADS"

For Absorbent Surgical Pads.
Claims use since Sept. 18, 1951.

574,449. (Class 21. Electrical Apparatus, Machines, and Supplies.) Burgess Battery Company, Freeport, Ill. Filed Feb. 19, 1952, Serial No. 625,189.



The lining on the drawing denotes the color red.
For Electric Dry Batteries.
Claims use since Oct. 5, 1946.

574,450. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Edward Burke, North Hollywood, Calif. Original filed, act of 1946, Principal Register, Feb. 23, 1952; amended to application, Supplemental Register, Dec. 18, 1952, Serial No. 625,398.

UturnEZ

For Screw Drivers.
Claims use since June 1951.

574,451. (Class 28. Jewelry and Precious-Metal Ware.) Irving Schiffman, Pittsburgh, Pa. Filed Feb. 23, 1952, Serial No. 625,439.

If you don't know diamonds . . .
Know your merchant.



The representation of the diamond is disclaimed apart from the mark as shown.
For Diamonds, Unmounted and Mounted.
Claims use since Apr. 1, 1948.

574,452. (Class 51. Cosmetics and Toilet Preparations.) Harry D. Koenig, doing business under the name of Anre, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 27, 1952; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 625,606.



SUNSTYK

For Greaseless Sun Tan Lotion in Stick Form.
Claims use since March 1951.

574,453. (Class 46. Foods and Ingredients of Foods.) Kellogg Company, Battle Creek, Mich. Original filed, act of 1946, Principal Register, Mar. 19, 1952; amended to application, Supplemental Register, Mar. 3, 1953, Serial No. 626,679.

SUPER-GRO

Applicant claims ownership of Registrations Nos. 176,855, 351,183, and others.
For Hog Feed.
Claims use since Jan. 13, 1952.

574,454. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Imperial Knife Company, Inc., Providence, R. I. Original filed, act of 1946, Principal Register, Mar. 27, 1952; amended to application, Supplemental Register, Feb. 27, 1953, Serial No. 627,135.

Hazelton

For Flatware of Base Metal Comprising Table Knives, Forks, and Spoons.
Claims use since Feb. 20, 1952.

574,455. (Class 42. Knitted, Netted, and Textile Fabrich, and Substitutes Therefor.) Calico Center, Inc., Boynton Beach, Fla. Original filed, act of 1946, Principal Register, Mar. 25, 1952; amended to application, Supplemental Register, Jan. 9, 1953, Serial No. 626,978.

calico craft

For Rugs and Carpets, Excluding Linoleum and Like Solid Type Rugs.
Claims use since Nov. 4, 1951.

574,456. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Crown Fabrics Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 28, 1952; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 627,177.



For Textile Fabrics in the Piece Made of Wool, Cotton, Silk, Rayon, and Mixtures Thereof.
Claims use since Sept. 4, 1951.

574,457. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Acme Appliance Manufacturing Co., Pasadena, Calif. Original filed, act of 1946, Principal Register, Apr. 7, 1952; amended to application, Supplemental Register, Mar. 3, 1953, Serial No. 627,657.

BI-RAIL

For Metal Trackways for Sliding Doors.
Claims use since Feb. 28, 1950.

574,458. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) James H. Devine, Washington, D. C. Original filed, act of 1946, Principal Register, Apr. 23, 1952; amended to application, Supplemental Register, Mar. 13, 1953, Serial No. 628,524.



For Bolts.
Claims use since Nov. 28, 1951.

574,459. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Collord, Incorporated, Detroit, Mich. Filed May 2, 1952, Serial No. 629,090.

THE *Rubberclad* LINE

For Boot-Like Lubricant Seals for General Use.
Claims use since May 13, 1947.

574,460. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) H. E. Lauffer Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 9, 1952; amended to application, Supplemental Register, Feb. 20, 1953, Serial No. 629,440.

LAUFFER

For Stainless Steel Cutlery—Namely, Knives, Forks, Spoons, and Serving Pieces.
Claims use since Nov. 29, 1951.

574,461. (Class 5. Adhesives.) Allen Products Corporation, Detroit, Mich. Original filed, act of 1946, Principal Register, May 20, 1952; amended to application, Supplemental Register, Jan. 12, 1953, Serial No. 629,925.

SEAL-ALL

For Water-Proof Sealing Material in the Nature of a Cement for Sealing Leaks in Automobile Tops, Gasoline Tanks, and Water Hose.
Claims use since Mar. 1, 1950.

574,462. (Class 22. Games, Toys, and Sporting Goods.) American Shuffleboard Company, Union City, N. J. Original filed, act of 1946, Principal Register, May 28, 1952; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 630,373.

BANK-SHOT

For Shuffle-Boards.
Claims use since Feb. 4, 1952.

574,463. (Class 44. Dental, Medical, and Surgical Appliances.) The Dahlberg Company, Minneapolis, Minn. Filed Aug. 6, 1952, Serial No. 633,534.

Dahlberg

For Electronic Hearing Aids.
Claims use since on or about Nov. 1, 1951.

574,464. (Class 4. Abrasives and Polishing Materials.) Behr-Manning Corporation, Troy, N. Y. Filed Aug. 11, 1952, Serial No. 633,707.

TUFBAK

For Flexible and Inflexible Abrasives.
Claims use since January 1934.

574,465. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) James M. Burkett, doing business as J. M. Burkett Mfg. Co., Charleston, S. C. Original filed, act of 1946, Principal Register, Aug. 12, 1952; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 633,752.

Speedmower

For Power Lawn Mowers.
Claims use since on or about June 15, 1947.

574,466. (Class 18. Medicines and Pharmaceutical Preparations.) Sorge Enterprises, Inc., also doing business under the name of Joseph F. Sorge, Washington, D. C. Filed Aug. 12, 1952, Serial No. 633,794.

SORGE

For Medicated Scalp and Skin Formula for Minor Scalp and Skin Irritations, Poison Ivy, and Temporary Relief of Dandruff.
Claims use since December 1945.

574,467. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corporation, Hatboro, Pa. Original filed, act of 1946, Principal Register, Aug. 29, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 634,621.

DOLL-E-FEEDER

For Child's Toy Comprising a Doll's Feeding Set, Consisting of a Pot and Lid, a Bottle Rack Containing Nursing Bottles, a Funnel, a Nipple Jar and Lid Containing Nipples, a Bottle Brush, a Nursing Cup, and a Formula Measuring Spoon.
Claims use since Dec. 18, 1951.

574,468. (Class 37. Paper and Stationery.) The American Crayon Company, Sandusky, Ohio. Filed Oct. 16, 1952, Serial No. 636,325.

MULTI•PAK

For Crayons.
Claims use since Aug. 11, 1949.

574,469. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) D. B. Fuller & Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 18, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 638,254.

DUO PRINTS

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since June 11, 1951.

574,470. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) D. B. Fuller & Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 18, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 638,255.

DUO TWEED

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since June 11, 1951.

574,471. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Aldens, Inc., Chicago, Ill. Filed Feb. 12, 1953, Serial No. 642,120.

ALDENS *Master*

For Automobile Tires and Inner Tubes.
Claims use since Oct. 1, 1951.

TRADE-MARK REGISTRATIONS RENEWED

39,745. MONALISA. Registered Feb. 3, 1903. Richard Hudnut. Re-renewed Feb. 3, 1953, to Richard Hudnut, New York, N. Y., a corporation of New York. Perfumes. Class 51.

39,837. REPRESENTATION OF SHIELD. Registered Feb. 24, 1903. The Union Bag & Paper Co. Re-renewed Feb. 24, 1953, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Paper Bags. Class 2.

40,050. S S S. Registered Apr. 7, 1903. The Swift Specific Co. Re-renewed Apr. 7, 1953, to S. S. S. Co., Atlanta, Ga., a corporation of Georgia. Medicine for the Cure of All Blood and Skin Diseases and for Purifying the Blood. Class 18.

40,325. "Y AND E". Registered May 12, 1903. Yawman & Erbe Mfg. Co., Rochester, N. Y., a corporation of New York. Re-renewed May 12, 1953. Sectional Bookcases and Filing-Cabinets. Class 32.

89,131. "MINERVA" AND DRAWING. Registered Nov. 12, 1912. Minerva Motors, Bercheм, near Autwerp, Belgium. Re-renewed Nov. 12, 1952, to Societe Anonyme Societe Nouvelle Minerva, Sprimont, Belgium, a corporation organized under the laws of Belgium. Transmission Apparatus and Explosion-Motors for Motor-Cars, Motor-Cycles, and Aeroplanes. Class 23.

89,337. PORTRAIT OF MAN. Registered Dec. 10, 1912. Brooks Rupture Appliance Co. Re-renewed Dec. 10, 1952, to Brooks Appliance Company, Inc., Marshall, Mich., a corporation of Michigan. Rupture Appliances. Class 44.

89,521. ROCKFAST. Registered Dec. 17, 1912. The Wallpaper Manufacturers Limited, London, England. Re-renewed Dec. 17, 1952, to The Walpamur Company Limited, Darwen, England, a share company organized under the laws of England. Paper Hangings. Class 37.

90,244. OASIS. Registered Feb. 11, 1913. Edw. & Jas. Richardson, Newcastle-upon-Tyne, England. Re-renewed Feb. 11, 1953, to G. W. Russell & Son Limited, Hitchin, England, a corporation organized under the laws of Great Britain. Finished Leather for Bookbinding, Upholstering, and Like Purposes. Class 1.

90,469. PAMILLA. Registered Feb. 25, 1913. Pacific Mills, Lawrence and Boston, Mass. Re-renewed Feb. 25, 1953, to Pacific Mills, New York, N. Y., a corporation of Massachusetts. Cotton Piece and Cotton Dress Goods. Class 42.

90,692. REPRESENTATION OF ANCHOR. Registered Mar. 18, 1913. The B. F. Goodrich Company. Re-renewed Mar. 18, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Hose, Made Wholly or Partly of Rubber or Having Rubber Incorporated Therewith. Class 35.

90,713. REPRESENTATION OF EAGLE. Registered Mar. 18, 1913. Lanman & Kemp. Re-renewed Mar. 18, 1953, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Toilet Waters, Florida Water; Cod Liver Oil, Porous Plasters, Etc. Class 51.

90,714. "LANMAN & KEMP" ETC. AND DESIGN. Registered Mar. 18, 1913. Lanman & Kemp. Re-renewed Mar. 18, 1953, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Florida Water, Cod Liver Oil, Porous Plasters, Witch Hazel, Etc. Class 51.

90,993. BELLE. Registered Apr. 8, 1913. J. F. Imbs Milling Company, St. Louis, Mo., and Belleville, Ill. Re-renewed Apr. 8, 1953, to J. F. Imbs Milling Co., St. Louis, Mo., a corporation of Delaware. Wheat-Flour. Class 46.

91,859. DEERE. Registered June 3, 1913. Deere & Company, Moline, Ill., a corporation of Illinois. Re-renewed June 3, 1953. Cultivators, Harrows, Mowers, Etc. Class 23.

91,860. JOHN DEERE. Registered June 3, 1913. Deere & Company, Moline, Ill., a corporation of Illinois. Re-renewed June 3, 1953. Plows, Cultivators, Harrows, Etc. Class 23.

91,861. "JOHN DEERE" ETC. Registered June 3, 1913. Deere & Company, Moline, Ill., a corporation of Illinois. Re-renewed June 3, 1953. Plows, Cultivators, Harrows, Etc. Class 23.

92,041. SEA BREEZE. Registered June 17, 1913. J. W. Brooks & Co. Incorporated, Portland, Maine. Re-renewed June 17, 1953, to Sea Breeze Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania. Lotion for Treating the Skin. Class 18.

92,147. PROTECTOGRAPH. Registered June 17, 1913. G. W. Todd & Company. Re-renewed June 17, 1953, to The Todd Company, Inc., Rochester, N. Y., a corporation of New York. Machines, Known as Check-Protectors, for Printing Limiting Amounts on Bank Checks, Etc. Class 23.

92,520. "FRESHMAN" ETC. AND DESIGN. Registered July 15, 1913, to J. C. Blair Company, Huntingdon, Pa. Re-renewed July 15, 1953, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Etc. Class 37.

92,522. SCHOLARSHIP. Registered July 15, 1913. J. C. Blair Company, Huntingdon, Pa. Re-renewed July 15, 1953, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Etc. Class 37.

92,523. THE CAMPUS. Registered July 15, 1913. J. C. Blair Company, Huntingdon, Pa. Re-renewed July 15, 1953, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Envelops, Etc. Class 37.

92,626. REPRESENTATION OF WEST POINT CADETS. Registered July 22, 1913. J. C. Blair Company, Huntingdon, Pa. Re-renewed July 22, 1953, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Etc. Class 37.

92,728. "CRÈME YVETTE" ETC. Registered July 22, 1913. Sheffield Dentifrice Co., New London, Conn., and New York, N. Y. Re-renewed July 22, 1953, to Charles Jacquin et Cie, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Cordial. Class 49.

296,948. BEWOID. Registered Aug. 30, 1932. British Bewoid Company Limited, London, England, a British company. Renewed Aug. 30, 1952. Resinous and Animal Sizes, Emulsions of Resinous Oleaginous, Fatty, and Waxy Paper and Textile Sizing Agents, Casein, and Albumen Used in Paper Making. Class 6.

298,666. "GOLD MEDAL" AND DESIGN. Registered Nov. 1, 1932. York and Company, Grand Rapids, Mich. Renewed Nov. 1, 1952, to Michigan Salt Company, St. Louis, Mich., a corporation of Michigan. Salt. Class 46.

299,132. CALORITE. Registered Nov. 22, 1932. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware. Renewed Nov. 22, 1952. Denaturants. Class 6.

299,311. TADANAC. Registered Nov. 29, 1932. The Consolidated Mining and Smelting Company of Canada, Limited, Trail, British Columbia, Canada. Renewed Nov. 29, 1952, to The Consolidated Mining and Smelting Company of Canada Limited, Montreal, Quebec, and Trail, British Columbia, Canada, a corporation organized under the laws of Canada. Chemical Fertilizer Used for Agricultural and Horticultural Purposes. Class 10.

300,270. "BEMBERG" ETC. AND DESIGN. Registered Jan. 10, 1933. I. P. Bemberg Aktiengesellschaft, Wuppertal Oberbarmen, Germany, assignor to American Bemberg Corporation. Renewed Jan. 10, 1953, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York. Piece Goods Comprising or Containing Artificial Silk. Class 42.

300,579. BLAUGOLD-KÖLNISCH WASSER. Registered Jan. 24, 1933. Ferd Mülhens, Inc. Renewed Jan. 24, 1953, to "4711" Limited, New York, N. Y., a corporation of New York. Eau de Cologne. Class 51.

300,713. FAMICO. Registered Feb. 7, 1933. F. & M. Importing Co. Inc., Los Angeles, Calif., a corporation of California. Renewed Feb. 7, 1953. Canned Fish, Canned Fruits, Canned Vegetables, Alimentary Pastes, Etc. Class 46.

300,886. METALBA. Registered Feb. 14, 1933. The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Feb. 14, 1953. Dental Supplies—Namely, Plate, Solder, Wire, Shells, Disks, Inlays, and Castings. Class 44.

300,906. "R & R" AND CIRCLE DESIGN. Registered Feb. 14, 1933. The Ransom & Randolph Company, Toledo, Ohio, a corporation of Ohio. Renewed Feb. 14, 1953. Dental Burs, Impression Compounds, Scaling Instruments, Plaster Compounds for Dental Molds, Etc. Class 44.

300,962. CREMÉFROST. Registered Feb. 14, 1933. Georgia-Carolina Dairies, Augusta, Ga. Renewed Feb. 14, 1953, to The Borden Company, New York, N. Y., a corporation of New Jersey. Frozen Confections in the Nature of Sherbets. Class 46.

301,337. GRIDDLE KING. Registered Feb. 28, 1933. The Light Grain & Milling Co. Renewed Feb. 28, 1953, to Light Grain & Milling Co., Inc., Liberal, Kans., a corporation of Kansas. Self-Rising Pancake Flour. Class 46.

301,751. AUTOPLA. Registered Mar. 14, 1933. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 14, 1953. Fishing Reels. Class 22.

301,886. CRECO. Registered Mar. 21, 1933. Creco Company, Inc., Long Island City, N. Y., a corporation of New York. Renewed Mar. 21, 1953. Floor, Furniture, and Automovile Waxes. Class 4.

301,940. SHOO FLY. Registered Mar. 21, 1933. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 21, 1953. Insecticides. Class 6.

301,996. 155. Registered Mar. 21, 1933. Union Special Machine Company, Chicago, Ill., a corporation of Illinois. Renewed Mar. 21, 1953. Sewing Machine Needles. Class 23.

302,093. "REDDY KILOWATT" ETC. AND DESIGN. Registered Mar. 28, 1933. Ashton B. Collins, Birmingham, Ala. Renewed Mar. 28, 1953, to Ashton B. Collins, doing business as Reddy Kilowatt, Short Hills, N. J., and New York, N. Y. Mats, Electrotypes, Stereotypes, and Photo Engravings. Class 50.

302,121. TAKIT. Registered Mar. 28, 1933. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 28, 1953. Artificial Bait Such as Spinners. Class 22.

302,375. CRECO. Registered Apr. 18, 1933. Creco Company, Inc., Long Island City, N. Y., a corporation of New York. Renewed Apr. 18, 1953. Paper Towels, Toilet Papers. Class 37.

302,546. DERMASKIN. Registered Apr. 25, 1933. The Ayer Company, Lowell, Mass. Renewed Apr. 25, 1953, to Whitehall Pharmacal Company, New York, N. Y., a corporation of Illinois. Medicinal Ointment for Skin Disorders. Class 18.

302,608. "ADOBE WARE" ETC. AND DESIGN. Registered Apr. 25, 1933. Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York. Renewed Apr. 25, 1953. China Table Ware, Both Domestic and Commercial, and Ornamental China Ware. Class 30.

302,617. KIRBURY. Registered Apr. 25, 1933. Kirby, Block & Fischer, Inc., New York, N. Y., a corporation of New York. Renewed Apr. 25, 1953. Boys' and Men's Clothing and Furnishings and for Women's, Misses' and Children's Wearing Apparel, Etc. Class 39.

302,654. "CHIEF ANDERSON" ETC. AND DRAWING. Registered Apr. 25, 1933. Hughes-Curry Packing Co., Anderson, Ind. Renewed Apr. 25, 1953, to Emge Packing Company, Inc., Fort Branch, Ind., a corporation of Indiana. Hams. Class 46.

303,266. KING WILLIAM IV. Registered May 16, 1933. John Gillon & Co. Limited, Glasgow, Scotland, a limited liability company registered under the laws of Great Britain. Renewed May 16, 1953. Whisky. Class 49.

303,300. "MAZOLA" ETC. AND DESIGN LINED FOR BROWN AND YELLOW. Registered May 23, 1933. Corn Products Refining Company, New York, N. Y., a corporation of New Jersey. Renewed May 23, 1953. Salad and Cooking Oil. Class 46.

303,301. "COCOANUT HUT" AND DESIGN. Registered May 23, 1933. Tom Huston Corporation. Renewed May 23, 1953, to Tom Huston Peanut Company, Columbus, Ga., a corporation of Georgia. Candy. Class 46.

303,343. "GRENFELL CLOTH" ETC. AND DESIGN. Registered May 23, 1933. Haythornthwaite & Sons, Limited, Brierfield, England. Renewed May 23, 1953, to Haythornthwaite & Sons Limited, Burnley, England, a company organized under the laws of Great Britain and Northern Ireland. Piece Goods Composed Wholly or Mainly of Cotton. Class 42.

303,444. IROQUOIS. Registered May 23, 1933. Eagle Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich. Renewed May 23, 1953, to Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Leather. Class 1.

303,447. DOWN CUSHION. Registered May 23, 1933. Eagle Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich. Renewed May 23, 1953, to Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Leather. Class 1.

303,631. "TETLEY" AND REPRESENTATION OF CARTON LINED FOR GREEN, ORANGE, AND BLUE. Registered May 30, 1933. Joseph Tetley & Co., Inc. Renewed May 30, 1953, to Tetley Tea Co., Inc., New York, N. Y., a corporation of New York. Tea, Coffee, Cocoa, Etc. Class 46.

303,666. REPRESENTATION OF PIECE OF DENTAL WIRE WITH BLUE TIPPED END. Registered June 6, 1933. Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Renewed June 6, 1953. Wire Composed of an Alloy of Precious Metals for Dental Purposes. Class 44.

303,667. REPRESENTATION OF PIECE OF DENTAL WIRE WITH GREEN TIPPED END. Registered June 6, 1933. Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Renewed June 6, 1953. Wire Composed of an Alloy of Precious Metals for Dental Purposes. Class 44.

303,669. REPRESENTATION OF PIECE OF DENTAL WIRE WITH RED TIPPED END. Registered June 6, 1933. Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Renewed June 6, 1953. Wire Composed of an Alloy of Precious Metals for Dental Purposes. Class 44.

303,686. "FANTAN" AND DESIGN. Registered June 6, 1933. Mundo Products, Inc. Renewed June 6, 1953, to Sapolin Paints Inc., New York, N. Y., a corporation of New York. Paint Enamels and Varnish Stains. Class 16.

303,752. REPRESENTATION OF LABORATORY BURNER LINED FOR MARGON. Registered June 6, 1933. Central Scientific Company, Chicago, Ill., a corporation of Illinois. Renewed June 6, 1953. Laboratory Burners of All Kinds Employing Gaseous Fuels. Class 34.

304,290. "SANDEMAN'S V. V. O. SCOTCH WHISKY." Registered June 27, 1933. Sandeman & Sons Limited, Edinburgh, Scotland. Renewed June 27, 1953, to Geo. G. Sandeman Sons & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Whisky. Class 49.

304,292. THE NEEDLE'S EYE. Registered June 27, 1933. Union Special Machine Company, Chicago, Ill., a corporation of Illinois. Renewed June 27, 1953. Magazine. Class 38.

304,486. "PRINCE HAMLET" AND DESIGN. Registered July 11, 1933. Bayuk Cigars Incorporated, Philadelphia, Pa., a corporation of Maryland. Renewed July 11, 1953. CIGARS. Class 17.

304,701. TUNSO. Registered July 18, 1933. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed July 18, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Laundry and Toilet Soap. Class 32.

304,891. "WATER QUEEN" AND DESIGN. Registered July 18, 1933. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed July 18, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soap. Class 32.

304,925. LONDO MELLOWED. Registered July 25, 1933. H. Daroff & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 25, 1953. Men's Suits. Class 39.

304,926. LONDON=MELLOWED. Registered July 25, 1933. H. Daroff & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 25, 1953. Men's Suits. Class 39.

304,961. POLAR. Registered July 25, 1933. Geigy Company, Inc., New York, N. Y., a corporation of New York. Renewed July 25, 1953. Dyes and Chemicals Employed in Dyeing. Class 6.

305,000. DISAL. Registered July 25, 1933. Joseph H. de Giorgi, Syracuse, N. Y. Renewed July 25, 1953. Pharmaceutical Preparation for Use as an Analgesic-Sedative. Class 18.

305,006. JOZITE. Registered July 25, 1933. St. Joseph Lead Company, New York, N. Y., a corporation of New York. Renewed July 25, 1953. Mineral Pigments for Use in the Manufacture of Paints, Rubber and Plastic Compositions. Class 6.

305,012. UNGUOL BALM. Registered July 25, 1933. Joseph H. de Giorgi, Syracuse, N. Y. Renewed July 25, 1953. Pharmaceutical Preparation for Use as a Counter-Irritant and Local Anaesthetic. Class 18.

305,080. "SNOW BALL" ETC. AND DESIGN. Registered Aug. 1, 1933. Steinberger Bros. Inc., New York, N. Y., a corporation of New York. Renewed Aug. 1, 1953. Wool, Worsted, Angora, Cotton, Etc. Class 43.

305,091. PALMER'S. Registered Aug. 1, 1933. E. T. Browne Drug Company Inc., New York, N. Y., a corporation of New York. Renewed Aug. 1, 1953. Medicinal and Toilet Soap. Class 52.

306,191. ENGLO. Registered Sept. 12, 1933. American Enka Corporation, Asheville, N. C. Renewed Sept. 12, 1953, to American Enka Corporation, Enka, N. C., a corporation of Delaware. Rayon Yarns. Class 43.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

569,896. CLORA-BRETH. Registered Feb. 3, 1953. Baray Pharmacal Corporation, Brooklyn, N. Y. Tablets Taken Internally, as by Dissolving in the Mouth for Refreshing the Breath. Class 18. Corrected as follows: In the statement, column 2, line 6, for "work" read *mark*.

571,302. GARDGUM. Registered Mar. 3, 1953. Private Brands, Inc., Knoxville, Tenn., now by change of name Chiclecraft, Inc. Chewing Gum Containing Chlorophyl. Class 46. Corrected as follows: In the certificate, line 4, strike out "of," second occurrence.

571,338. THE CHATFIELD & WOODS SACK CO. WHITE SEAL AND DESIGN. Registered Mar. 3, 1953. The Chatfield & Woods Sack Company, Cincinnati, Ohio. Paper Sacks. Class 2. Corrected as follows: In the certificate, line 3, and in the heading to the printed statement, lines 1 and 2, address of registrant, for "Cincinnati and Hyde Park, Cincinnati, Ohio" read *Cincinnati, Ohio*.

571,340. THE CHATFIELD & WOODS SACK CO. PRIZE MEDAL AND DESIGN. Registered Mar. 3, 1953. The Chatfield & Woods Sack Company, Cincinnati, Ohio. Paper Sacks. Class 2. Corrected as follows: In the certificate, line 3, and in the heading to the printed statement, lines 1 and 2, address of registrant, for "Cincinnati and Hyde Park, Cincinnati, Ohio" read *Cincinnati, Ohio*.

571,726. PARA-VEN. Registered Mar. 10, 1953. Rubin Rosenberg, doing business under the name and style of Paramount Venetian Blind Company, New York, N. Y. Venetian Blinds and Venetian Blind Assemblies. Class 32. Corrected as follows: In the certificate, line 2, name of registrant, for "Rubin Roseberg" read *Rubin Rosenberg*.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

363,691. HUSH. Registered Jan. 3, 1939. Estelle A. Kirstein, doing business as Hush Company. Toilet Preparations—Namely, Cream Deodorants, Etc. Class 51 (formerly Class 6). New certificate under section 7(c) issued May 12, 1953, to The Gillette Company, Boston, Mass., a corporation of Delaware.

414,445. COSMOPOLITAN FURNITURE FOR TOWN & COUNTRY. Registered June 12, 1945. Wycombe, Meyer, Inc. Living Room, Dining Room, and Bed Room Furniture—Namely, Beds, Dressers, Etc. Class 32. New certificate under section 7(c) issued May 12, 1953, to B. Altman & Co., New York, N. Y., a corporation of New York.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 2

RECEPTACLES

Reg. No. 330,009. Registered Nov. 19, 1935. Midland Products, Inc., St. Louis, Mo., a corporation of Missouri. Republished by registrant.

TIP TOP TUBE

The word "Tube" is disclaimed apart from the mark as shown.

For Paper, Cellulose Tissue, Celluloid, Fabric, and Rubber Tubing Used as Containers for Various Articles of Merchandise.

Claims use since Mar. 5, 1935.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 280,204. Registered Feb. 10, 1931. (Classified in Class 18.) Tennessee Products Corporation, Nashville, Tenn. Republished by Tennessee Products & Chemical Corporation, Nashville, Tenn., a corporation of Tennessee.

See this number in Class 18 for goods and mark.

Claims use since Aug. 1, 1930.

Reg. No. 396,400. Registered July 14, 1942. (Classified in Class 52.) Clarence H. Stone, doing business as C. H. Stone Company, Lynnfield Center, Mass. Republished by Burton S. Price, Waban, Mass.

See this number in Class 52 for goods and mark.

Claims use since Mar. 7, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 283,093. Registered May 19, 1931. Pioneer Paper Company, Los Angeles, Calif. Republished by The Flintkote Company, New York, N. Y., a corporation of Massachusetts.

AGE KOTE

For Bituminous Emulsions for Use in Treating Concrete Roadways and the Like.

Claims use since about Aug. 23, 1930.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 280,204. Registered Feb. 10, 1931. Tennessee Products Corporation, Nashville, Tenn. Republished by Tennessee Products & Chemical Corporation, Nashville, Tenn., a corporation of Tennessee.

TENN-GREO

For Chemical Preparations—Namely, Wood Preservers, Disinfectants, and Germicides.

Claims use since Aug. 1, 1930.

Reg. No. 345,285. Registered Apr. 20, 1937. Wilber Co. Inc., Richmond, Va. Republished by Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia.

IROSUL

For Preparation for the Treatment of Anemia.

Claims use since Oct. 21, 1936.

Reg. No. 347,618. Registered June 29, 1937. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

BELBARB

For Sedative-Hypnotic Pharmaceutical Preparation in Tablet Form.

Claims use since Feb. 2, 1937.

Reg. No. 348,408. Registered July 27, 1937. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

HASAC

For Analgesic-Antipyretic Pharmaceutical Preparation in Tablet Form.

Claims use since Feb. 8, 1937.

Reg. No. 352,294. Registered Nov. 23, 1937. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

HASACAINE

For Anesthetic Ointment.

Claims use since June 28, 1937.

Reg. No. 353,588. Registered Jan. 11, 1938. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

HASAMAL

For Pharmaceutical Preparation in Tablet Form, Having Analgesic, Antipyretic and Sedative Properties.

Claims use since July 1, 1937.

Reg. No. 363,165. Registered Dec. 13, 1938. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

ZANTHIMAL

For Pharmaceutical Preparation in Tablet Form for the Treatment of Cardiovascular Diseases.

Claims use since June 9, 1938.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 236,629. Registered Dec. 20, 1927. Automatic Switch Company, New York, N. Y., a corporation of New York. Republished by registrant, present address Orange, N. J.

ASCO VALVES

The word "Valves" is disclaimed apart from the mark as shown.

For Magnet or Solenoid Operated Valves for Controlling Fluid Flow Through Conduits.

Claims use since June 23, 1927.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 373,327. Registered Dec. 5, 1939. The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

"BIG BOY"

For Pump for Use in Forcing Pickling Brine Into Meat.

Claims use since June 1930.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 328,331. Registered Sept. 24, 1935. Association of the Junior Leagues of America, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

JUNIOR LEAGUE

For Magazines.

Claims use since Oct. 13, 1914.

Reg. No. 372,360. Registered Oct. 31, 1939. National Modes, Inc., New York, N. Y. Republished by Carolyn Fashions, Inc., New York, N. Y., a corporation of New York.

FASHION IN THE NEWS

For Fashion Periodical (Relating to Fashions).

Claims use since Mar. 1, 1939.

CLASS 39

CLOTHING

Reg. No. 355,133. Registered Mar. 8, 1938. T. D. McKeever, Los Angeles, Calif. Republished by Cisco-California, Inc., Los Angeles, Calif., a corporation of California.

Gabshort

For Gabardine and Other Cloth Swim Suits, Outer Shorts, Play Suits, Sun Tan Suits for Men, Women, and Children, and Women's Brassières.

Claims use since July 1, 1937.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Reg. No. 119,830. Registered Dec. 11, 1917. Bernhard Ulmann Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address Long Island City, N. Y.

BUCILLA

For Embroidery-Work, Knitting-Work, Crocheting-Work, and Similar Fancy Work and Art-Needlework, Completed, Partly Completed, Stamped, Cut, or Otherwise Prepared for Completion by the Customer, Used as or in Connection With Suitable Foundation Materials for Personal Apparel, Outfits for Children and Infants, Household and Fancy Linens, and Other Art-Needlework, Art-Needlework-Package Outfits, Ornamental Drapery and Upholstery Trimmings, Chenille (Such as Used for Lamp-Shades, Table-Covers, and Fancy Goods Generally); Embroidery-Initials, Tapes, Braids, Ruffles, Medallions; Rings of Metal, Bone, or Glass for Fancy Work; Beads and Bells for Trimming Purposes; Also Notions and Art-Needlework Implements, as Follows: Crochet-Hooks and Knitting-Needles of Metal, Bone, Celluloid, or Wood; Bodkins and Stilettos for Piercing Eyelets in Material for Embroidering Purposes, of Bone or Metal, With or Without Wooden Handles; Netting, Embroidering and Hand Sewing Needles; Shuttles for Tatting, of Celluloid, Bone, or Metal; Maltese Pins (a Fork-Shaped Article of Metal for Manipulating Thread Into So-Called Maltese-Lace Designs); Holders for Balls of Crochet Cotton or Wool, Hand Weaving Frames, Embroidery-Hoops, Embroidery-Hoop Holders.

Claims use since Apr. 16, 1913.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 74,619. Registered July 27, 1909. Wells Flour Milling Company, Wells, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

BETSY ROSS

For Wheat Flour.
Claims use since about Jan. 7, 1909.

Reg. No. 82,033. Registered May 23, 1911. Wells Flour Milling Company, Wells, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

KING KOLE

For Wheat Flour.
Claims use since May 7, 1910.

Reg. No. 262,464. Registered Oct. 15, 1929. Shellabarger Mill & Elevator Company, Salina, Kans. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

PEACOCK

For Wheat Flour.
Claims use since March 1886.

Reg. No. 333,695. Registered Mar. 31, 1936. Crafton Mutual Orchards, Mentone and Crafton, Calif. Republished by Crafton Orange Growers Association, Mentone, Calif., a corporation of California.

SILVER FLEET

For Fresh Citrus Fruit.
Claims use since Oct. 20, 1935.

Reg. No. 350,047. Registered Sept. 14, 1937. Crafton Mutual Orchards, Mentone, Calif. Republished by Crafton Orange Growers Association, Mentone, Calif., a corporation of California.

BESTWON

For Fresh Citrus Fruit.
Claims use since January 1924.

Reg. No. 364,300. Registered Jan. 24, 1939. Francesco Cappellino & Sons, Rochester, N. Y., a firm. Republished by registrant.

FRANCO

For Salad Oil.
Claims use since 1915.

Reg. No. 375,188. Registered Feb. 13, 1940. Dorman Farms Co., Holtville, Calif. Republished by Keith Metz, Grower and Shipper, Holtville, Calif., a corporation of California.

Winter Garden

For Fresh Vegetables and Melons.
Claims use since on or about Jan. 15, 1934.

Reg. No. 376,205. Registered Mar. 12, 1940. The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

MULSIFAT

For Powdered Emulsifying Composition for Emulsifying Fats Into Food Products.
Claims use since on or about Jan. 19, 1939.

Reg. No. 425,018. Registered Oct. 29, 1946. Northwest Packing Co., Portland, Oreg. Republished by Pet Food Co., Portland, Oreg., a corporation of Oregon.

BEG

For Canned Dog and Cat Food.
Claims use since Dec. 7, 1945.

Reg. No. 425,019. Registered Oct. 29, 1946. Northwest Packing Co., Portland, Oreg. Republished by Pet Food Co., Portland, Oreg., a corporation of Oregon.

BEG MORE

For Canned Dog and Cat Food.
Claims use since Dec. 7, 1945.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 349,854. Registered Sept. 7, 1937. Esther Lavin, Chicago, Ill. Republished by House for Men, Inc., Chicago, Ill., a corporation of Illinois.

HIS 'N HER

For Hand Lotion.
Claims use since May 1, 1937.

Reg. No. 358,044. Registered June 28, 1938. Lovely Lady, Inc., Chicago, Ill. Republished by House of Twain, Inc., Chicago, Ill., a corporation of Illinois.

Lovely Lady

For Face Powder, Cold Cream, Vanishing Cream, All Purpose Face Cream, Astringent, Lipstick, Lip Rouge, Rouge, Eye Shadow, Eyebrow Pencil, Foundation Cream, Skin Freshener, Tissue Cream, Bleaching Cream, Brilliantine, Skin Lotions, Dusting Powder, and Nail Polish.
Claims use since Sept. 15, 1923.

670 O. G.—25

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 350,537. Registered Sept. 28, 1937. The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

PAN-SAYF

For Alkaline Non-Corrosive Detergent Chemical Composition Especially for Cleaning Kitchen Utensils and Like Metal Food Containers.
Claims use since February 1935.

Reg. No. 350,750. Registered Oct. 5, 1937. The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

Erado

For Chemical Germicidal Cleanser, Antiseptic, and Deodorant for Use in Meat Packing Plants, Bakery Establishments, Ice Cream Factories, and the Like.
Claims use since September 1932.

Reg. No. 396,400. Registered July 14, 1942. Clarence H. Stone, doing business as C. H. Stone Company, Lynnfield Center, Mass. Republished by Burton S. Price, Waban, Mass.

DORICON

For Solvent Soap and Waterproofing Agents for Leather.
Claims use since Mar. 7, 1941.

REISSUES

MAY 12, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,654

TRIMETHYLSILYLPHENOXY ESTERS

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Original No. 2,584,752, dated February 5, 1952, Serial No. 205,032, January 8, 1951. Application for reissue February 3, 1953, Serial No. 334,988

4 Claims. (Cl. 260—448.8)

1. A compound of the formula

$$[R_3SiOCH_2CHR'OC_6H_4Cl]$$
$$R_3SiOCHR'CH_2OC_6H_4Cl$$

where R is a monovalent hydrocarbon radical and R' is selected from the group consisting of methyl radicals and hydrogen.

23,655

BALLAST REMOVING APPARATUS

Edwin M. Thornley, Joliet, Ill.

Original No. 2,463,499, dated March 1, 1949, Serial No. 533,806, May 2, 1944. Application for reissue February 27, 1951, Serial No. 213,030

19 Claims. (Cl. 37—104)



8. Apparatus for digging ballast comprising a rockable carriage, *means supporting the carriage for movement along a railroad trackway in a direction transverse of the ties*, a prime mover carried by the carriage, and digging means driven by the prime mover including a wheel carried by the carriage and rotatable about an axis generally horizontal *and perpendicular to the planes of the sides of the ties*, and spaced, sturdy, rock-digging teeth [with complete clearance therebetween] moving around the axis of the wheel and [supported by] *receiving support from* said wheel, having faces, of substantial *area* [extent radially beyond any tooth connecting means], facing *generally forwardly* in the direction of their motion *around the axis of the wheel, having complete clearance between the teeth upwardly from the path of their tips a substantial extent* and following a path of movement *in a plane parallel to the sides of the ties* adapted to extend into and out from the ballast bed between the ties of a railroad track, said digging means being so constructed and rockable with the carriage as to be adapted while in operating condition *with the machine running* to move down into ballast in the space between ties, clean the ballast from adjacent one tie, and then by movement of the carriage transversely of the ties move through the ballast, digging the ballast away as the movement continues, to another position adjacent the next tie, and clean the ballast from adjacent the next tie; said teeth being exposed for digging from each side *with the exposed and generally forwardly facing portions of the sides extending outwardly* far enough [beyond any portion of the wheel therebetween] to enable the [wheel] *digging means* to dig its way [axially] through ballast in either direction *transversely of the ties, and the digging portions of the teeth lying within a zone approximately four inches in width.*

23,656

AMINES AS GEL-SHRINKAGE REDUCING AGENTS IN SYNTHETIC-RUBBER SPONGE

Leonard A. Wohler, Bath Township, Summit County, and Ernst Schmidt, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Original No. 2,537,645, dated January 9, 1951, Serial No. 756,556, June 23, 1947. Application for reissue January 8, 1952, Serial No. 265,524

14 Claims. (Cl. 260—2.5)

9. The process of producing sponge from latex of rubber-like copolymer of a conjugated diene from the class consisting of butadiene, piperylene, cyclopentadiene, dimethylbutadiene, isoprene, 2-cyanobutadiene and 2-methyl-1,3-pentadiene, and a vinyl aromatic monomer, which comprises producing a foam which includes, in addition to the copolymer, a gel-shrinkage-reducing agent from the class consisting of cyclohexyl, benzyl, n-propyl, n-butyl, and n-amyl amines in a small amount not greater than about 5 per cent (based on the copolymer), vulcanizing ingredients and gelling agent, casting the foam, gelling, and then curing it.

PLANT PATENTS

GRANTED MAY 12, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,184
PEAR TREE
Walter H. Eller, Yakima, Wash.
Application October 18, 1949, Serial No. 121,943
1 Claim. (Cl. 47—62)

A new and distinct variety of pear tree, characterized as to novelty by its early blooming season, large healthy spur growth and light sucker growth; by its early and heavy bearing habit, resistant to frost and blight; by the excellent texture of the fruit and by the superior qualities of the fruit for storage, canning and eating purposes, substantially as shown and described.

1,185
ROSE PLANT
O. L. Weeks, Chino, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application February 1, 1952, Serial No. 269,389
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climbing hybrid tea class, substantially as herein shown and described, characterized as to novelty particularly by its general similarity to its parent "Sutter's Gold" (Plant Patent No. 885), but essentially distinguished therefrom by its vigorous growing habit as characterized by its strong, climbing canes, by its habit of producing many more flowers in the spring than can be found at any one time on plants of its parent variety, and by its intermittent flowering habit during the remainder of the growing season.

1,186
JUNIPER PLANT
Carl White, Walla Walla, Wash.
Application November 23, 1951, Serial No. 257,708
1 Claim. (Cl. 47—59)

The new and distinct variety of juniper plant as described and illustrated, characterized by its prostrate spreading shape, the foliage being feathery and being predominantly greenish silver gray in color, the aged branches being substantially wood brown and the buds being green and yellow striped.

1,187
SAINTPAULIA PLANT
Frode Rahbek, Primos, Pa., assignor to Robert Craig Company, Inc., Norwood, Pa., a corporation of Pennsylvania
Application April 23, 1951, Serial No. 222,490
1 Claim. (Cl. 47—60)

A new variety of Saintpaulia plant substantially as shown and described, distinctively characterized by the symmetrical star shaped deep blue flowers having evenly sized petals, and the large average size thereof.

PATENTS

GRANTED MAY 12, 1953

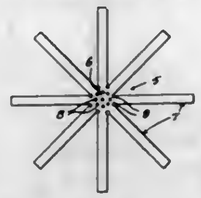
GENERAL AND MECHANICAL

2,637,849
SHOULDER STRAP PAD
Lewis J. Nelson, Niagara Falls, N. Y.
Application November 21, 1950, Serial No. 196,834
1 Claim. (Cl. 2—2)



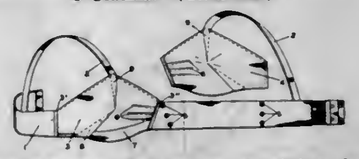
A shoulder strap pad comprising an elongated base member of flexible material adapted to be positioned under a shoulder strap and having end portions provided with upwardly struck regions extending transversely of the base member between points spaced inwardly from side edges of the member whereby to provide transversely elongated and open-ended keeper seats at the underside of the base member, and bendable rods having intermediate portions thereof positioned in said seats, end portions of said rods projecting from the open ends of the seats above said base member and constituting shoulder strap engaging prongs.

2,637,850
ADJUSTABLE FINGER COT OR PROTECTOR
William J. Watermann, Elgin, Ill.
Application June 15, 1951, Serial No. 231,691
1 Claim. (Cl. 2—21)



A finger cot or protector formed from a single blank of malleable material comprising a hub and a plurality of strips radiating from said central hub and being separated at the hub by arcuate notches formed in the strips and hub and between adjacent strips, said strips being correspondingly curved at points radially spaced from the hub and having substantially straight outer portions disposed in planes substantially at right angles to the plane of the hub, said outer portions being uniformly spaced circumferentially relatively to one another throughout their lengths when disposed to form a slotted sleeve or cylinder with each of said outer portions equally spaced from the axis of the sleeve or cylinder throughout the lengths of said outer portions.

2,637,851
BRASSIÈRE
Mildred A. Peck, Newport, Oreg.
Application April 21, 1951, Serial No. 222,224
3 Claims. (Cl. 2—42)



1. A brassière for single remaining breast mastectomy operates for supporting an artificial breast, comprising a plural part breast band, shoulder supports therefor, a fabric breast cup fashioned to neatly fit a, remaining natural breast, said breast cup made integral with said band by securing opposite diametral boundaries thereof between parts of the band, a pocket attached in spaced relation to said cup on the outside of said breast band, said pocket comprising a hammock portion on the inside thereof adapted to receive and carry an artificial breast pad of rubber or the like, maintained in predetermined position with said natural breast.

2,637,852
GRINDINGS CATCHER AND SHIELD
Harold Globe, Beverly Hills, Calif.
Application April 23, 1951, Serial No. 222,474
6 Claims. (Cl. 2—51)



1. A shield for use by dental technicians, manufacturing jewelers and the like in catching particles ground from a precious metal casting, comprising a sheet comprising a central trough portion and symmetrical side portions disposed in a common plane forwardly of said trough portion, said trough portion constituting substantially half the width of the sheet and said side portions each constituting substantially one quarter the width of the sheet, said sheet having a pair of lateral notches each having a depth substantially coextensive with the width of a respective side portion, said lateral notches being centered on a transverse axis located roughly one quarter of the height of the shield upwardly from the lower edge thereof, whereby each side portion is divided into a relatively long upper por-

tion constituting a wing and a relatively short lower portion constituting a foot, said shield having at its upper end a rounded central notch to receive the neck of a workman and being of a width between said lateral notches just narrow enough to allow the arms of the workman to be extended around the sides of the shield and the hands brought together for executing the grinding operation directly in front of the shield.

2,637,853

HEAT DEFLECTOR FOR HAIR DRIERS

Doris C. Rochlin and Glenn M. Crepps, Newton, Kans.

Application May 21, 1951, Serial No. 227,438
1 Claim. (Cl. 2—174)



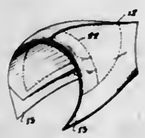
A face protector comprising a bowl-shaped body of flexible material having an uppermost peripheral edge defining an open top and a lowermost peripheral edge defining a head-receiving opening; a frame including a split ring secured to said uppermost peripheral edge of said body and having a pair of spaced ends, a chest-engaging leg depending from each end respectively of the ring, and a nape-engaging bar interconnecting the legs; and a nape-covering apron forming a part of said body and normally hanging between a portion of said legs below the uppermost edge of the body.

2,637,854

SHOULDER PAD

Walter Riedler and Berthold Mechur, New York, N. Y., assignors, by mesne assignments, to Perma-Fit Shoulder Pad Co., Inc., New York, N. Y., a corporation of New York

Application July 8, 1949, Serial No. 103,578
8 Claims. (Cl. 2—268)



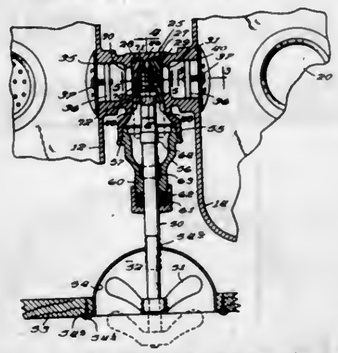
1. A shoulder pad comprising in combination a sheet of material, a fold in said sheet upon itself, an upper layer of said sheet formed by said fold, a lower layer of said sheet formed by said fold, said fold extending transversely across said sheet and interposed between said layers, a pad of material contained within the upper and lower layers of said folded sheet material, an edge of said pad of material abutting the inner surface of said fold, slit defining edges extending into said sheet at an angle to said fold, and a projecting portion of said sheet adjacent one of said edges and extending from said fold.

2,637,855

WASTE WATER UTILIZER FOR GARBAGE DISPOSAL

Martin L. Stafford, Los Angeles, Calif., assignor of one-half to Josephine M. Reaume, Los Angeles, Calif.

Application October 7, 1952, Serial No. 313,433
7 Claims. (Cl. 4—187)



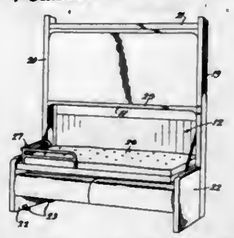
1. In a sink, a first basin, a trap leading therefrom, a second basin located alongside said first basin, a garbage disposal housing in communication with and depending from said second basin, a trap leading from said housing, and conduit means leading from the lower portion of said first basin to the lower portion of said second basin to conduct used water from said first basin to said second basin thence to flow into said housing and flush the ground garbage therefrom.

2,637,856

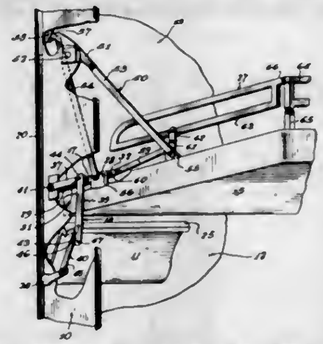
RETRACTABLE PANEL FOR SOFA BERTHS

Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application September 24, 1948, Serial No. 51,007
7 Claims. (Cl. 5—9)



1. In a lower and upper berth construction of the class described the combination of a vertical supporting frame having a recess for stowing a pair of bed bottoms one above the other, a pair of superposed upper and lower bed bottoms, a linkage pivotally connecting each end of each of said bed bottoms with said frame to permit independent swinging of said bed bottoms through angles of 90 degrees between vertically-disposed stowed positions in said recessed supporting frame and horizontally-disposed open positions, a panel hingedly mounted on said frame intermediate said bed bottoms to form a partition dividing said recess into upper and lower stowage compartments, said panel being swingable between a normal horizontally-disposed position and an upwardly-disposed retracted position, said panel having a front face plate fixed thereon and disposed in a plane flush with the alined exposed faces of said bed bottoms in their vertically-disposed stowed positions and substantially closing the space between said bed bottom faces when said panel occupies its normal position, and a



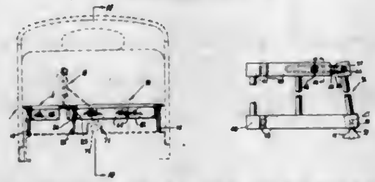
linkage connecting the upper of said bed bottoms to said panel whereby the swinging of said upper bed bottom from its stowed position to its open position automatically swings said panel from its horizontal position to its retracted position, thereby retracting said face plate upwardly into said frame.

2,637,857

COMBINED COT AND CRIB FOR AUTOMOBILES

Herbert S. Isaacson, Levittown, N. Y.

Application August 22, 1950, Serial No. 180,731
2 Claims. (Cl. 5—94)



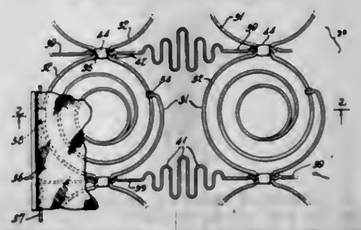
1. A combined cot and crib for an automobile having a raised longitudinally positioned floor portion, said cot and crib having a body supporting cover member and legs raising said body supporting cover member above said raised floor portion, said combined cot and crib being adapted to be transformed from a fully open cot occupying the full width of the automobile between opposite doors to a partly folded cot adapted for occupying a fractional part of the width of said automobile between said doors to permit normal occupancy of a portion of the rear seat by one or more persons, said cot comprising hinged end legs and intermediate legs and hinged sectional side frame members with the hinges and intermediate legs positioned in offset relation from the mid-portion of said side frame members, to permit said intermediate legs to clear said raised floor portion covering the drive shaft of said automobile, and further hinges in said side frame members permitting end sections of said side frame members to fold upwardly into angular relation with the stationary side frame members, means to brace said upfolded side frame sections to the portions remaining in horizontal position, the end legs at said upfolded end portion being separably cross connected to permit their separation and folding in parallel relation with said upfolded side frame sections.

2,637,858

SPRING MATTRESS CONSTRUCTION

Nathan C. Goldberg, New York, N. Y.

Application July 8, 1949, Serial No. 103,617
3 Claims. (Cl. 5—267)



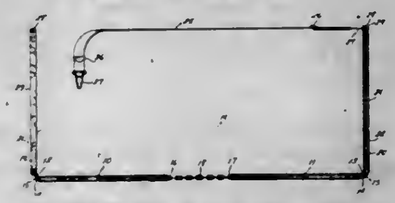
1. A spring mattress construction the spring structure of which comprises a system of upright coil springs arranged in longitudinal rows and formed with top and bottom end convolutions, and a system of longitudinal tiewires located substantially in the plane of end convolutions of the coil springs, and each longitudinal tiewire extending adjacently between two rows of such end convolutions and being clipped by a series of clips thereto along a longitudinal series of tie points; said spring structure being characterized in that each of said longitudinal tiewires is formed with widened areas each consisting of zigzag bendings of substantial transverse extent, and each constituting a generally horizontal open-work load-supporting area of tiewire midway between the coil springs, and said tiewire having crimps to provide a laterally offset portion which seats the clip therein, and said clip being arranged to hold said last-named offset portion firmly against the adjacent end convolutions of the upright coil springs in a way to prevent rotation of the tiewire, each portion of the tiewire having its zigzag area arched upwardly between the convolutions of successive coil springs thereby to produce a curved structural arch adapted to receive and support a substantial part of the load on the mattress.

2,637,859

BED ATTACHMENT

Madge B. Miskimen, Indianapolis, Ind.

Application March 28, 1951, Serial No. 218,020
10 Claims. (Cl. 5—319)



1. In a bedclothes lifting attachment for a bed including a mattress, the combination of an elongated member adapted to transversely underlie the mattress and to be held in place thereby, lateral side arms extending upwardly from the free ends of said member to be located at op-

posite sides of the mattress, and a flexible bedclothes-supporting element extending between the free ends of the side arms and adapted to extend across the mattress to support the bedclothes in spaced relation to the mattress.

2,637,860
COMPOUND BED COVER
Evelyn Lehigh, Mamaroneck, N. Y.
Application July 9, 1947, Serial No. 759,840
3 Claims. (Cl. 5—334)



1. A compound covering comprising a casing having its top edges separable to permit entry therein and constituting a complete quilt and adapted to be used alone as such, a covering member likewise constituting a complete covering being removably positioned within said casing and of such dimensions as to be substantially equal in area to the area of the enclosing sides of said casing, said casing having along its top edges complementary fastening devices for securing said edges together when said casing is used either alone or with the covering member contained thereon, a border of textile material projecting outwardly from the edges of said casing and along the top edges of the latter concealing said complementary fastening devices, additional fastening devices mounted on the top edges of said casing and wholly contained within the confines of such casing below said complementary fastening devices, and cooperating fastening devices mounted on the top edge of said covering member and adapted to be interlocked with the fastening devices within said casing to form a compound covering.

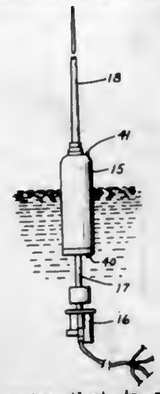
2,637,861
PILLOWCASE
Helen A. Kethledge, Easton, Pa.
Application May 1, 1952, Serial No. 285,366
3 Claims. (Cl. 5—339)



1. The combination of a pillow case open at least at one end thereof, a tick receiving pocket provided in said case and stitched to the latter at opposite side edges thereof, said pocket having an open end adjacent the open end of the pillow case, and closure means for the open end of said pocket.

2,637,862
BUOYANT CHAMBER SCUTTLING DEVICE
Raymond L. Freas, Conshohocken, Pa.
Original application June 18, 1948, Serial No. 33,835, now Patent No. 2,593,432, dated April 22, 1952. Divided and this application February 21, 1951, Serial No. 212,182
2 Claims. (Cl. 9—8)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In an enclosed buoyancy chamber, a scuttling device comprising a plurality of fluid containers secured and sealed to each other in series, the series of containers being attached to the buoyancy chamber below the water line by an end container of the series being secured and sealed to the chamber, a passage for fluid from the exterior to the interior of the buoyancy chamber comprising a time-delay restricted fluid-passage through the wall of the buoyancy chamber and communicating with the end con-



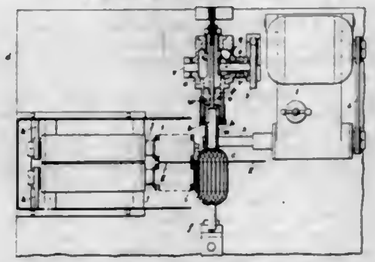
tainer of the series that is secured to the buoyancy chamber, the passage also comprising a time-delay restricted fluid-passage through the container at the opposite end of the series and communicating with the exterior of the series of containers, the passage also comprising a time-delay restricted fluid-passage between each of two next-adjacent containers between the opposite end containers of the series, and an air vent in the buoyancy chamber above the water line.

2,637,863
METHOD OF PREPARING GOODYEAR WELT INSOLES
Abraham A. Katz, Cambridge, Mass.
Application January 29, 1952, Serial No. 268,800
8 Claims. (Cl. 12—146)



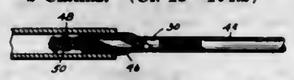
1. That method of preparing Goodyear welt insoles, which comprises as steps providing an insole blank of thin, flexible material, providing a reinforce member of stiff sheet material having plane parallel upper and lower surfaces, said reinforce member being free and independent of other parts and being of approximately the same size and contour as the insole blank, whereby the reinforce member and blank may be assembled with their marginal edges in registry, the reinforce member being so light in weight that when assembled with the insole blank, the assembly may be handled and manipulated in the same way as a conventional insole blank of substantial thickness and inherent stiffness, placing the insole blank and reinforce member in registry with one another and temporarily uniting them, providing a narrow strip of rib-forming material wholly independent of the blank, so uniting said strip to the marginal portion only of the exposed surface of the insole blank as to form a sewing rib while leaving the surface of the blank exposed in the space bounded by the rib, and thereafter separating the reinforce member from the insole.

2,637,864
MEANS FOR BARING THE ENDS OF INSULATED ELECTRICAL CONDUCTORS
William Swift, Sutton Coldfield, and Harold Coley, Cradley, England, assignors to Joseph Lucas Limited, Birmingham, England
Application March 20, 1950, Serial No. 150,596
In Great Britain March 23, 1949
3 Claims. (Cl. 15—4)



1. A machine for baring the free ends of insulated wires extending in two, inner and outer, concentric groups from one end of an armature winding assembly on an armature spindle, comprising in combination a headstock for supporting one end of the armature spindle, a bearing for supporting the other end of the armature spindle, a pair of rotary scratch brushes between which the wire ends in the outer group can pass in succession after being outwardly deflected, and from which rotary motion can be imparted to the armature spindle and winding assembly by contact of the rotary scratch brushes with opposite sides of adjacent wire ends in the outer group, a rotary scraper carried by the headstock for acting simultaneously on the inner sides of the wire ends in the inner group, a third rotary scratch brush for acting on the outer sides of the wires in the inner group, and means for actuating the rotary scatch brushes and the scraper.

2,637,865
TUBE CLEANING TOOL
Donald G. Poeson, Needham, Mass.
Application July 13, 1948, Serial No. 38,507
2 Claims. (Cl. 15—104.2)



1. A tool for cleaning the interior of tubes, comprising a cylindrical rod having oppositely disposed helical flutes extending longitudinally thereof, a hole through the web of said rod connecting said flutes at their trailing end remote from the leading end of said rod, and a cleaning swab comprising a pair of twisted wires supporting fibrous twisted material positioned in said hole and with its ends extended forwardly in said flutes, and the ends of said swab twisted together beyond the leading end of said rod.

2,637,866
SEWER CLEANING DEVICE
George W. Kiesler, Sr., Barrington, Ill.
Application May 12, 1949, Serial No. 92,759
5 Claims. (Cl. 15—104.3)



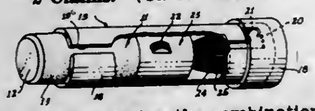
1. In a tool for cleaning sewers, drains and the like, a main body member consisting of a plurality of helical turns, the endmost turn at one end of said body member having a free edge formed as a cutting edge, and a cutting element arranged in a plane substantially normal to said cutting edge and across said endmost turn of said helical body member.

2,637,867
COMBINATION MOP AND BRUSH
Joseph Kalinowski, Philadelphia, Pa.
Application October 20, 1949, Serial No. 122,514
2 Claims. (Cl. 15—115)



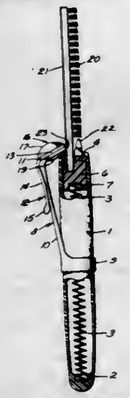
1. In a device of the kind described, a handle socket having eyes at opposite sides thereof, said socket adapted to receive a handle in its outer end, a brush unit disposed against the opposite or inner end of said socket, said brush unit including a tubular back of flattened elliptical formation in cross section and having one end disposed at an angle to the balance thereof and further provided with a hole through the flattened walls slightly to the rear of the angular end with bristles fixed in said back and having ends protruding from said angular end of said back, strands of mop material, and a staple engaging said strands of mop material intermediate their ends with one leg of said staple projected through the hole in the brush unit and the other leg directly engaging the rear of said brush unit opposite the end from which the bristles protrude and both legs projected through the eyes on the handle socket and bent to fasten the parts together whereby said brush unit is secured in place and is prevented from rotating about the staple leg projecting through the brush unit.

2,637,868
FABRIC CLEANING STICK AND BRUSH COMBINATION
William F. Hamilton, Altadena, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.
Application September 11, 1945, Serial No. 615,576
2 Claims. (Cl. 15—130.1)



1. In a cleaning device, the combination of: a cylindrical housing having therein a slot with an offset portion adjacent one end of said housing, said slot extending to the other end of said housing; a cylindrical cleaning stick dimensioned for sliding movement in said housing between extended position projecting beyond one open end of said housing and retracted position entirely contained within said housing; an actuating body slidably disposed within said housing and having a portion thereof extending through said slot in said housing; and a brush mounted upon said actuating body, said actuating body being movable between extended position in which said brush projects beyond the other open end of said housing and retracted position in which said brush and said actuating body are entirely received within said housing, said actuating body being adapted for contact with said cleaning stick to move it from its retracted to its extended position, and said offset portion of said slot receiving said projecting portion of said actuating body to lock said brush in its extended position.

2,637,869
RETRACTABLE BRUSH AND CASING THEREFOR
Archie Frank Tomlinson, Oakland, Calif.
Application December 3, 1948, Serial No. 63,355
3 Claims. (Cl. 15—184)



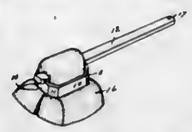
1. A unitary brush and casing therefor comprising a generally cylindrical body having a longitudinal passageway closed at its lower end and open at its upper end, means defining a stop member adjacent said upper end and restricting the opening thereat, a block snugly guided in said passageway intermediate its ends, spring means between said closed, lower end and said block for urging the latter upwardly, a bristle brush having a carrier portion embedded in said block extending thereabove, and a locking cap disposable across said open, upper end to tightly enclose said brush within said body or movable therefrom to permit said spring means to move said block and brush upwardly into a position of use wherein the upper end portion of said block is in engagement with said stop member, and means normally urging said locking cap into said position across said open, upper end.

2,637,870
TOOTHBRUSH CONSTRUCTION
Max H. Cohen, Los Angeles, Calif.
Application January 11, 1949, Serial No. 70,232
3 Claims. (Cl. 15—188)



1. In a toothbrush comprising a handle and a plurality of generally trapezoidal sheet-like rubber elements arranged transversely of the handle at one end thereof in spaced parallel relationship, the improvement comprising each said sheet-like element having a top edge and a pair of outwardly concavely curved and flared side edges extending laterally approximately half the distance represented by the height of said element, said top and side edges respectively terminating in points in a line offset laterally from the handle, said top edge being feathered, and said edge, together with said side edges, forming laterally directed points adapted to trail and provide flat massaging surfaces in a direction substantially normal to the main surfaces of said elements.

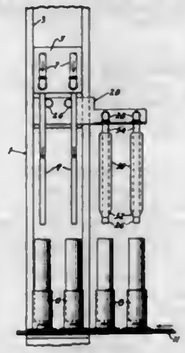
2,637,871
SPONGE RUBBER BRUSH
George H. Moser, Portland, Oreg., assignor to Orris J. Fry, Portland, Oreg.
Application December 6, 1948, Serial No. 63,702
2 Claims. (Cl. 15—244)



1. A brush comprising a substantially rectangular band, a flat handle having one bent end provided with a notch engaging one short end of said band, a sponge rubber insert less in width than the length of said band, said flat handle bridging the two short ends of said band with its bend between the longer band sides, the middle of said rubber insert extending around the bent portion of said handle, the ends of said rubber insert projecting from said band.

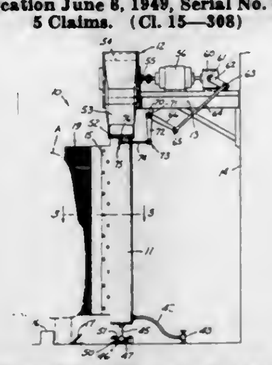
2,637,872
SUCTION CLEANING DEVICE FOR COLLAPSIBLE TUBES
Ralph Wentworth Holbrook, New Albany, Ind., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application July 24, 1948, Serial No. 40,604
3 Claims. (Cl. 15—304)

3. A cleaning attachment for a collapsible tube filling machine which comprises a vertical guide, a bracket mounted for reciprocation in said guide, and a downwardly extending suction nozzle removably secured to said bracket, said suction nozzle comprising a central tube of relatively small diameter having a straight section at least as long as the collapsible tube to be cleaned and having its sole entrance for air at the lower end,



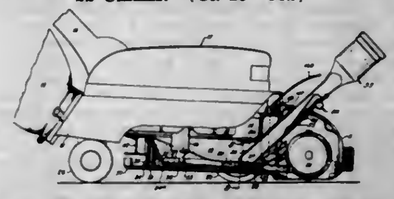
and a closed cylindrical body portion of larger diameter surrounding and secured to said central tube, said body portion being tapered at the end remote from the removable connection from the diameter of the body portion to the diameter of the central tube.

2,637,873
AUTOMATIC CAR WASHER WITH AIR-ACTUATED AGITATOR
Mischa N. Berezny, Huntington Park, Calif., assignor to David R. Shusett, Beverly Hills, Calif.
Application June 6, 1949, Serial No. 97,389
5 Claims. (Cl. 15—308)



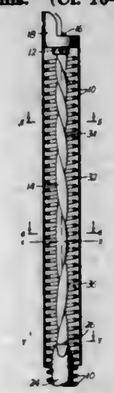
1. An automatic washer of the class described comprising an air conduit adapted to be arranged generally parallel to the surface to be washed, said conduit being mounted for movement with respect to said surface, a nozzle extending lengthwise of said conduit and directed so as to discharge a blast of air against said surface, a plurality of closely spaced, relatively thin strips of soft, flexible material attached at one end to said conduit adjacent said nozzle, the free ends of said strips being adapted to be carried outwardly and agitated violently by said blast of air, thereby producing a whipping vibration at the tip ends of said strips, said air conduit when in operative position being disposed at a distance from the surface to be washed such that the outer end portions of said strips contact said surface, whereby the beating and rubbing action of said strips acts to scrub said surface, and means for moving said conduit continuously so as to rub said strips against said surface.

2,637,874
CONVERTIBLE SUCTION CLEANER WITH AGITATOR DRIVE DISENGAGING MEANS
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 8, 1949, Serial No. 114,470
22 Claims. (Cl. 15—332)



1. In combination with a suction cleaner of the type having a suction nozzle extending crosswise of the cleaner body, a motor-driven fan supported rearwardly of said nozzle, an agitator in said nozzle, a belt interconnecting said agitator and motor-driven fan, means forming a suction air passageway and a belt tunnel between said fan and said nozzle, and belt drive disconnecting means permanently carried by said cleaner for discontinuing the operation of said agitator during off-the-floor cleaning; of normally covered port means in the upper portion of said nozzle communicating with said air passageway intermediate said agitator and said fan, and a converter device separable from said cleaner but insertable through said port means when uncovered to convert said cleaner to use for off-the-floor cleaning, said converter being cooperable with said disconnected belt and said air passageway means to seal said nozzle from said fan when said converter is seated in said port means.

2,637,875
SPRING ASSEMBLY
Jacob Hess, Forest Hills, N. Y., assignor to General Bronze Corporation, Garden City, N. Y.
Application August 30, 1949, Serial No. 113,216
5 Claims. (Cl. 16—197)



1. A spring assembly adapted to be used to balance the weight of a window sash vertically

movable in a window frame comprising in combination, a pair of spaced brackets adapted to be connected to said frame and sash respectively, a spiral actuator rotatably supported on one of said brackets and a cooperating key-way through which said actuator extends, said key-way being formed in one end of a tube, the other end of which is secured to the other of said brackets, a coil spring surrounding said actuator and tube, one end of said spring being connected to said actuator near its point of support and the other end of said spring being effectively connected to said other bracket, said actuator comprising two oppositely wound spiral sections extending in opposite directions from a point near the center thereof, the spiral section adjacent to the point of support of said actuator being wound in the same sense as the spiral of said coil spring, and the spiral section remote from the point of support of said actuator being wound in opposite sense with respect to the spiral of said spring, each of said spiral sections having a pitch that decreases progressively from the center of said actuator substantially to the ends thereof, and manually adjustable means operatively associated with said other bracket for varying the torsion of said spring.

2,637,876

METHOD OF PREVENTING THE OCCURRENCE OF PIN HOLES IN THIN, MICROPOROUS HARD RUBBER SEPARATORS

George L. Cory, Erskine Lakes, N. J., assignor to American Hard Rubber Company, New York, N. Y., a corporation of New York

Application April 14, 1951, Serial No. 221,027

6 Claims. (Cl. 18—53)



1. The method of preventing occurrence of pin holes in thin microporous strips of hard rubber composition which are adapted for use in electrolytic cells, wherein said strips have a thickness of from about .007 inch to about .02 inch, comprising the steps of preparing a preliminary strip of an uncured permeable hard rubber composition; assembling said preliminary strip with two strips of unstretchable material, in such manner that one of said two strips will be on each side of said preliminary strip and will cover both sides of an area thereof intended to form microporous separators, and thereby forming a composite strip; passing said composite strip through calender rolls so as to bring the strips making up said composite strip into intimate and adhering contact with each other throughout their areas and to control the thickness of the rubber composition strip to a predetermined value in the range of .007 inch to .02 inch; preventing the occurrence of pin holes in the rubber composition strip by wet vulcanizing said composite strip while both strips of said unstretchable material remain in adhering contact with said strip of rubber composition; drying said composite strip; and thereafter removing said strips of unstretchable material from said strip of rubber composition.

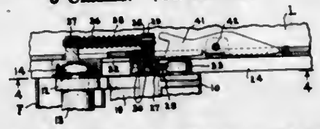
2,637,877

BALANCED DOOR

Petter M. Hanssen, Frewsburg, N. Y., assignor to Ellison Bronze Company, Inc., Jamestown, N. Y., a corporation of New York

Application April 20, 1948, Serial No. 22,225

5 Claims. (Cl. 20—16)



1. A balanced door organization to be mounted in a door frame comprising a door, at least two arms one located adjacent the top and the other adjacent the bottom of the door, means pivotally mounting one end of each arm to a door frame including spring means acting on the pivot means to close the door, means pivotally mounting the other end of each arm to the door at a point between the vertical edges thereof, a channel having guiding walls adapted to be mounted on the door frame above the door, a guide means secured to the door and movable in the channel whereby the door is adapted to normally open and close with a compound sliding and swinging movement, a bumper, means movably mounting the bumper in the channel at the end thereof adjacent the arms and engageable by the guide means when the door is adjacent fully open position and spring means resisting movement of the bumper when engaged by the guide means.

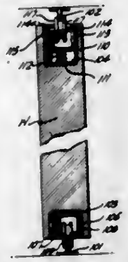
2,637,878

COMBINED DOOR AND WINDOW

William C. Watkins, Los Angeles, Calif.

Application July 28, 1949, Serial No. 107,172

3 Claims. (Cl. 20—19)



1. A window and door structure that includes: a substantially rectangular frame having a horizontally disposed head member and a sill member, said head member and sill member having oppositely disposed longitudinally extending rails formed as a part thereof that are in vertical alignment; a rectangular panel movable longitudinally in said frame, said panel having a horizontal head member having vertical sides and a horizontal bottom and a horizontal base member having vertical sides and a horizontal top; a plurality of pairs of nesting members removably mounted in longitudinally spaced relationship within the confines of said panel head member, the outermost of each of said pairs of nesting members having their vertical sides formed with aligned vertical slots and their horizontal bottoms formed with an aperture, the innermost of each of said pairs of nesting members having their vertical sides formed with a pair of horizontally aligned bores; a horizontal

shaft disposed between each of said pairs of bores and having their ends extending outwardly therefrom so as to be vertically slidable within said slots; a grooved roller mounted on each of said shafts; a helical spring interposed between the bottom of each of said innermost members and the aperture formed in the bottom of each of said outermost members so as to bias said innermost members and said rollers upwardly against the head member-supported rail; and a plurality of grooved rollers supported between the sides of said base member for rolling engagement with said sill-supported rail.

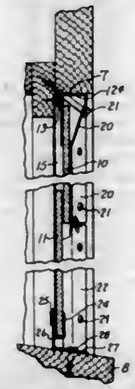
2,637,879

STORM WINDOW

Edward C. Mueller, Spencerville, Ohio

Application October 4, 1950, Serial No. 188,376

2 Claims. (Cl. 20—55)



1. The combination with a window frame or casing having a marginal recess at the sides and top of its window receiving opening, a mounting for a storm window comprising upper fixed and lower movable plate members in said opening, a first angle strip secured in the sides of said marginal recess, said angle strip having a reduced edge above the top of the lower plate, a second angle strip having a length equal to the height of the upper plate secured in the marginal recess over the upper portion of the first mentioned angle strip, spacing strips in the inner corners of each of said angle strips, a spacing strip along the top of the window recess and an upper angle strip mounted in said recess over said spacing strip, clamping strips secured in said marginal recess for retaining the upper and lower plates in the channels formed by the two side angle strips and said top angle strip.

2,637,880

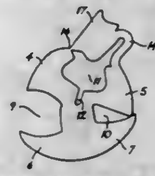
SELF-SEALING WINDOW STRIP

Howard G. Beck, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application November 2, 1949, Serial No. 125,075

3 Claims. (Cl. 20—56.4)

1. A flexible linear mounting of rubberlike material for joining adjacent panel edges characterized by having a body of uniform cross-section with two spaced and generally opposite linear grooves therein, a tubular hollow in said body between said grooves, and a locking element on one side connected to a relatively narrow portion which is in turn connected with said mounting body along one side of the outer edge of the body of the mounting adjacent the hollow and on the other side connected to a flap portion running from said other side of the outer edge of the body of the mounting adjacent the hollow to the inner bottom of the locking element, said locking element, said flap portion, said hinge portion and said hollow being proportioned so that



said locking element and said flap and hinge portions can be sprung into said hollow to thereby compress portions of the body of the mounting around edge portions of panels in said grooves and to hold said edge portions firmly therein and to cause said locking element to be held and locked in said hollow by resulting pressure exerted from the body of the mounting pressing against it.

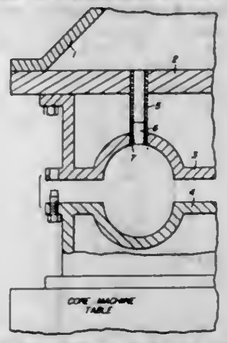
2,637,881

COREMAKING MACHINE

Edwin F. Peterson, Kewanee, Ill.

Application January 22, 1949, Serial No. 72,224

11 Claims. (Cl. 22—10)



1. Means for molding sand cores including, as a part thereof, a tubular member or members connecting the interior of the core machine magazine with the interior of the core mold for conveying sand from the magazine to the mold, said tubular member being lined at its delivery end with yielding and resilient material, the inner face of which forms a continuation of the inner face of the unlined portion of the body of the tube, but the inner face of the lining is constricted to form a discharging opening of less diameter than the internal diameter of the tube.

2,637,882

VACUUM DIE-CASTING

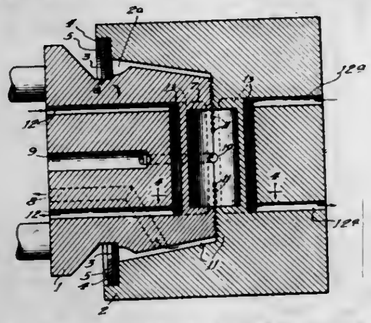
Robert F. Plott, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application February 17, 1944, Serial No. 522,780

8 Claims. (Cl. 22—73)

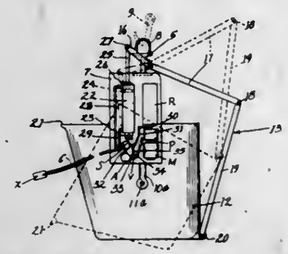
8. In a die casting machine, complementary die members cooperating to provide a die cavity, one of said die members being movable to open

and close said cavity, a flexible gasket secured to a perimeter of one of said die members, the other of said die members having a surface arranged to slidably engage the edge of said flexible gasket, said surface being shaped to progressively flex said gasket by increasing amounts as the



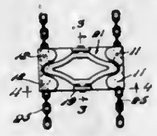
dies are brought together and finally to allow the gasket to unflex to its normal position as the dies are completely closed together, and said surface having immediately adjacent thereto a surface forming a lap joint with the gasket when the dies are in the closed position.

2,637,883
LADLE TIPPING MECHANISM
Edmund F. Schulze, Omaha, Nebr.
Application June 30, 1950, Serial No. 171,315
1 Claim. (Cl. 22—82)



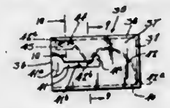
A ladle, a bail having a cross bar spaced upwardly from the ladle and arms extending downwardly from the cross bar and pivoted to the ladle at opposite sides thereof, a plate mounted vertically along the bail arm at one side of the ladle, a rocker shaft extending longitudinally of said cross bar with one end projecting outwardly therefrom over said plate and carrying a forwardly extending lever arm, the inner end of said rocker shaft terminating intermediate the length of the cross bar and at its inner end carrying an arm extending rearwardly over the ladle midway the width thereof, a vertical link back of said ladle pivoted at its upper end to the rear end of the inner arm and at its lower end to the ladle at the rear thereof and serving to tilt the ladle forwardly to a pouring position when the rocker shaft is turned in a direction to exert upward pull upon the link, a cylinder extending vertically outwardly of the plate and pivoted at the lower end to the plate, a piston in said cylinder having a rod extending upwardly through the top of the cylinder and at its upper end pivoted to the outer arm and causing rotation of the rocker shaft when the piston is moved longitudinally of the cylinder, a pump carried by said plate, and valve-controlled conduits connecting said pump with opposite ends of said cylinder for controlling directional movement of the piston in the cylinder.

2,637,884
CHAIN SLIDE
Eugene Morehouse, Providence, R. I., assignor to B. A. Ballou & Co. Incorporated, a corporation of Rhode Island
Application May 7, 1949, Serial No. 91,905
1 Claim. (Cl. 24—81)



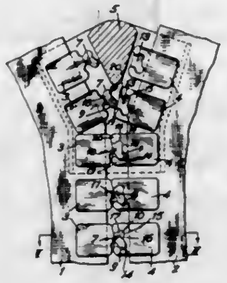
A chain slide comprising a body member with opposing hook-shape guides spaced from and opening toward the middle thereof into each of which a flexible member may be laterally inserted and a single resilient member fulcrumed on the body member on an axis located midway between said guides and generally parallel to the flexible members received in said guides and extending to a point beneath said flexible members when in said guides and flexed by said flexible members so as to press the flexible members against said hook-shaped guides.

2,637,885
ORNAMENTAL BUTTON COVERING
Walter Silver, Brooklyn, N. Y.
Application May 11, 1950, Serial No. 161,337
1 Claim. (Cl. 24—113)



In an ornament for a button, the combination which comprises a substantially hollow, box-like casing having a bottom, top, back, and a front wall and one end wall, one end of said casing being open, said back wall having an arcuate recess in the end thereof positioned at the open end of the casing and having a longitudinally disposed centrally positioned slot extended from the recess to a point positioned midway of the length of the casing, the said slot having an upturned end portion at the end thereof positioned midway of the length of the casing, a spring wire in the casing and having an arcuate section extended from the lower corner of the closed end of the casing upwardly over the said upturned end portion of the slot and downwardly whereby the vertex of a V-shaped section thereof extends below the upper edge of the slot to prevent accidental displacement of a button positioned in the casing, and said spring wire extended from the V-shaped section to the inner surface of the top wall of the casing, and a block nested in the corner between the top wall and front wall of the casing for retaining the end of the spring wire extended from the V-shaped section in position.

2,637,886
SLIDE FASTENER
Josef Hora, deceased, late of Melide, Switzerland, by Walther Trautwein, administrator, Burg, Post Kirchzarten, Breisgau, Germany, assignor to Gerber and Hora, Melide, Switzerland
Application December 5, 1950, Serial No. 199,200
In Switzerland April 6, 1950
4 Claims. (Cl. 24—205.13)



1. In a slide fastener having opposed aligned pairs of cooperating fastener members mounted on the adjacent edges of parallel flexible stringers and a slide movable along the stringers to engage and disengage the fastener members, one fastener member of each pair having spaced projections extended toward the other fastener member of each pair, the other fastener member of each pair having recesses spaced by a central web and opening toward the spaced projections to receive the projections when the slide is moved to engage the pairs of fastener members and cause said web to be engaged in the spaces between said spaced projections to retain said fastener members against transverse separation, each of said projections having a pair of noses separated from the respective fastener member by a restricted portion said noses of each pair being of unequal length and diverged toward the respective other fastener member in a plane parallel to the plane of the stringers, each of said recesses having a pair of hollows of unequal length and diverged away from the respective one fastener member in a plane parallel to the plane of the stringers, the longer nose of each pair of noses and the longer hollow of each pair of hollows being extended in a direction away from the direction in which the slide is moved to engage the pairs of fastener members, so constructed and arranged that when the slide is moved to engage the pairs of fastener members said projections are inserted into said recesses with the longer noses of said projections moving first into the longer hollows of said recesses, after which the shorter noses of said projections are moved into the shorter hollows of said recesses retaining the fastener members against being pulled apart by sidewise pulls on the stringers.

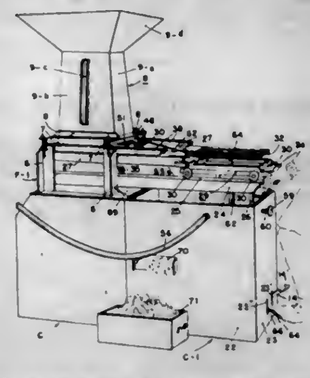
2,637,887
MAGNETIC JEWELRY CLASP
Jerome Goodman and Arnold Goldman, Philadelphia, Pa.; said Goldman assignor to said Goodman
Application July 21, 1950, Serial No. 175,235
2 Claims. (Cl. 24—230)

2. Linear jewelry, and a clasp for releasably securing ends of the jewelry together comprising a box-like housing secured to one end of the jewelry and having a bottom and upstanding walls, said walls having portions offset vertically to form high and low portions, a permanent magnet mounted in said housing and having an upper face in the plane of upper edges of the low portions of the walls, and a metal plate mounted against the under face of the other end of said



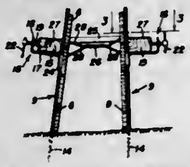
jewelry and constituting a keeper applicable slidably to the upper edges of the low wall portions for engagement with said magnet and having abutting contact with shoulders formed by the high wall portions, said plate being of a thickness disposing outer surfaces of the ends of the jewelry substantially flush with each other.

2,637,888
APPARATUS FOR PRODUCING CONCRETE ROOF TILES
Albert Louis Bushore, Riverside, Calif., assignor to Frank J. Hart, San Bernardino, Calif.
Application May 4, 1950, Serial No. 160,056
3 Claims. (Cl. 25—43)



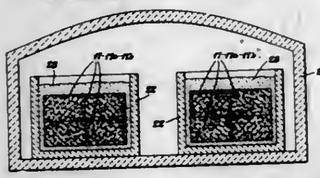
1. In an apparatus for producing tiles, the combination of a frame; a hopper mounted on said frame, and having a bottom discharge port; a track mounted on said frame and having a portion under said hopper and a second portion extending outwardly from said hopper; a second track mounted in said frame and having a portion under the first-mentioned portion of said first track, a second portion under the second-mentioned portion of said first track, and a third portion extending outwardly from said second-mentioned portion of said first track; a carriage mounted on said first track; a gate for opening and closing said discharge port, mounted on said carriage; a plurality of trowels mounted on said carriage; a second carriage mounted on said second track; a pallet removably mounted in said second carriage; and means for removing said pallet from said second carriage, the parts being so related that travel of the first carriage causes said gate to open and close said port, and travel of said second carriage disposes said pallet in charging position relative said hopper, automatically trowels the charge on said pallet, and disposes said pallet for functioning of said removing means.

2,637,889
CONCRETE FORM AND STAKE THEREFOR
Albert Carl Dulleck, Los Altos, Calif.
Application December 17, 1951, Serial No. 262,037
2 Claims. (Cl. 25—118)



2. For use in association with wooden planks employed in making a concrete pouring form, a rigid sheet metal stake susceptible of being driven and thus anchored in the ground and having a lengthwise channel-shaped portion including a flat web portion having a multiplicity of selectively usable nail holes and longitudinal walls provided with outstanding offset flanges, said flanges constituting assembling and guiding tracks; and a timber bracket, said bracket being generally Z-shaped and including a horizontal long limb and short vertical limb, said short limb being provided with clamping means, said long limb being provided at one end with a depending vertical apron and said apron having slidable contact with said web portion and being provided with vertical hook-shaped members slidably embracing the track flanges.

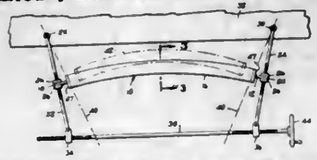
2,637,890
METHOD OF MAKING METALLIC AND CLAY ARTICLES
William S. Ramsay, Canton, Ohio, assignor to Stark Ceramics, Inc., Canton, Ohio, a corporation of Ohio
Application September 11, 1950, Serial No. 184,131
6 Claims. (Cl. 25—156)



1. The method of making clay and metal shapes which consists in mixing only clay with irregular curled ferrous metal particles and water, forming the mixture to desired shape under pressure, drying the formed shape, placing it in a container and completely surrounding the formed shape in the container with granular carbonaceous material and burning it, producing a ceramic article with irregular curled ferrous metal particles entirely embedded therein, which is highly resistant to thermal shock and to corrosion and oxidization.

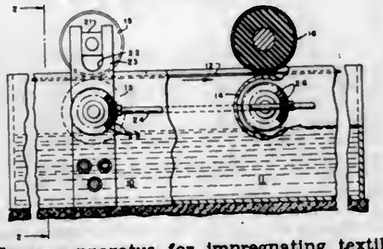
2,637,891
WEB TENSIONING DEVICE
Paul A. Sperry, New Haven, Conn.
Application May 9, 1952, Serial No. 286,935
8 Claims. (Cl. 26—63)

1. In a device for tensioning webs, support means, a pair of lever arms each pivoted at one end on said support means, a resilient web engaging member of variable longitudinal curvature secured between said arms, and means in engagement with the free ends of said arms to simultaneously move said arms towards or away



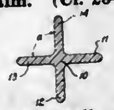
from one another thereby causing the curvature of said web engaging member to change.

2,637,892
APPARATUS FOR IMPREGNATING TEXTILE MATERIALS
Joseph Rockoff, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio
Original application January 18, 1947, Serial No. 722,805. Divided and this application September 15, 1949, Serial No. 115,863
10 Claims. (Cl. 28—28)



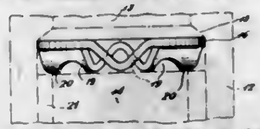
1. In an apparatus for impregnating textile materials with liquids, the combination of a sizing bath, guide rolls partially submerged in said bath for conveying said textile materials over said bath and applying liquid from said bath to said textile material, a slasher roll with an absorbent cover of sponge rubber composed of channels, each of said channels consisting of interconnected regularly shaped pores said pores conforming in shape to water soluble particles compounded with said cover and removed therefrom by dissolution in water, said slasher roll cooperating with one of said guide rolls to control the amount of liquid left in said textile material.

2,637,893
ARTIFICIAL FILAMENT
Gilbert Shaw, Middlebury, Vt.
Application March 12, 1949, Serial No. 81,126
1 Claim. (Cl. 28—82)



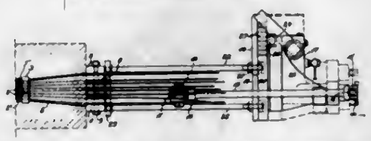
A filament of substantially uniform cross-section throughout its length which is particularly adapted for use as a brush bristle, said filament being formed from a long chain linear oriented stable thermoplastic polymer, said cross-section comprising at least three flat, thin, erect webs radiating at about equal angles from each other from a small center portion having a cross-sectional dimension of about the order of the thickness of such webs, whereby a high degree of stiffness and a great amount of surface is obtained with a minimum of polymer.

2,637,894
REFACING TOOL
George J. Smoleny, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application October 8, 1949, Serial No. 120,299
3 Claims. (Cl. 29—103)



1. A cutter element adapted to be mounted in a recess of a tool body and to be retained therein by a retaining member and comprising a disk having a peripheral configuration adapted to non-rotatably interfit the wall of the recess of a tool body, said disk being provided with bent portions extending from the periphery of the disk toward the center thereof and forming grooves adapted to face inwardly of the recess of a tool body, said disk being provided with spaced openings located in said bent portions, and said grooves formed by said bent portions having their longitudinal center lines located on diametral lines of said openings and intersecting at the center of the disk.

2,637,895
METHOD OF TENSIONING AND ANCHORING WIRE BUNDLES FOR PRESTRESSED CONCRETE STRUCTURAL ELEMENTS
Armand Eugène Adolphe Blaton, Woluwe-Saint-Pierre, Brussels, Belgium, assignor of one-half to Emile Jules Lucien Blaton, Brussels, Belgium
Application January 23, 1947, Serial No. 723,718
In Belgium March 21, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires March 21, 1962
6 Claims. (Cl. 29—148)



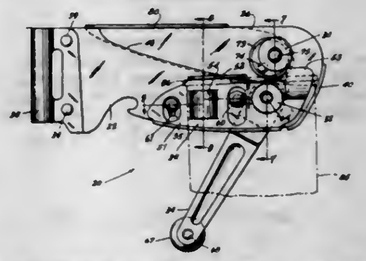
1. In the manufacture of load-carrying structural concrete elements pre-stressed to a high tension by means of at least one bundle of high tensile strength metal wires which cooperate to form a single unit for the maintenance of the desired high tension in the structural element, a method of forming the wire bundle and imparting thereto the desired high tension, said method comprising the steps of arranging a plurality of untensioned high tensile strength wires to extend, throughout the main longitudinal portion of the wire bundle formed by said wires between two transverse planes located near the respective ends of the bundle, in several closely spaced substantially parallel layers each including a plurality of closely spaced substantially parallel wires in such a manner that, at any cross section of said main portion of the wire bundle, the wires are substantially uniformly distributed over the entire area of such cross-section, anchoring the wires at one end of the bundle against longitudinal movement in the direction toward the other end of the bundle in relative positions of the several wires with respect to one another the same as in said main portion of the bundle, exerting at the other end of the bundle a predetermined, uniform, longitudinal tensioning stress on a fraction of the total number of wires in the bundle so as to tension a small number of wires of the order from 1 to 4 at a time while maintaining all the wires throughout said main portion of the bundle in their mutually spaced, parallel positions, anchoring each tensioned wire at said opposite end of the bundle against longitudinal movement in the direction toward said first end of the bundle in a relative position of said wire with respect to the other wires the same as in said main portion of the bundle, and repeating the tensioning and anchoring steps with respect to a small number of the order of 1 to 4 at a time of the remaining wires of the bundle until all the wires of the bundle have been uniformly tensioned and anchored.

2,637,896
MANGANESE ALLOY COATING ON FERROUS BASE AND METHOD OF PREPARATION
John Simon Nachtman, Washington, D. C.
Application November 7, 1949, Serial No. 126,049
2 Claims. (Cl. 29—198)



2. An article of manufacture comprising iron or steel provided with an adherent corrosion-resistant coating formed by diffusion of electroplated metal layers, at least one of which is metallic manganese.

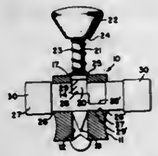
2,637,897
CAN OPENER
Arthur E. Nelson, University City, Mo.; Helen Smith Nelson, executrix of said Arthur E. Nelson, deceased
Application October 4, 1948, Serial No. 52,669
5 Claims. (Cl. 30—9)



1. In combination, a can opener comprising a supporting body, a bulge struck outwardly from one flat side thereof, a feed wheel support pivotally connected to said body and disposed adjacent said side remote from said bulge and including a bulge struck outwardly from one flat side thereof and disposed in opposed relation to said supporting body bulge forming therewith a well having a top and bottom portion formed by the edges of said flat sides of said supporting body and said feed wheel support which are movable relative to one another, a heavy spring in said well, can guide means on said feed wheel support, a feed wheel rotatably mounted on said feed wheel support, means for rotating said feed wheel, a cutter disc mounted on said supporting body for movement into and out of can piercing position, and means for moving said cutter disc

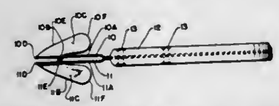
into and out of can piercing position, said spring being yieldable to permit relative downward movement of said feed wheel and its support upon greater than predetermined force applied to a can top by the cutter disc in a static attempted piercing movement whereby breakage to the can opener is reduced to a minimum.

2,637,898
CONTAINER PIERCING APPARATUS
Cyril Pontillo, Kenosha, Wis.
Application June 14, 1951, Serial No. 231,483
4 Claims. (Cl. 30—16)



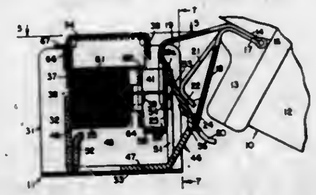
1. A container piercing apparatus including a body having an opening extending vertically between two oppositely disposed end walls and open at each end, a slot extending horizontally between two other oppositely disposed end walls and in line with said opening, a reciprocating piercing member comprising a base and a stem slideably mounted in said opening, said base member having a piercing member at its free end, said stem having a push member on its free end, a spring surrounding said stem and disposed between said base member and said push member, said spring normally urging said stem outwardly and away from said opening and retaining said base member within said opening, a flat strip slideable in said slot for contacting said base member and limiting the downward movement of said reciprocating piercing member.

2,637,899
GRAPEFRUIT KNIFE
Dean S. Conklin, North Hollywood, Calif., assignor to Conklin Products Corporation, Los Angeles, Calif., a corporation of Delaware
Application June 24, 1947, Serial No. 756,600
13 Claims. (Cl. 30—24)



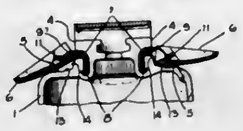
1. A grapefruit knife with a handle comprising a pair of parallelly disposed sheet members each having one of their adjacent ends anchored in the handle and the other one of their adjacent ends joined to integrally formed contiguous lateral outwardly extending cutting ears, said ears being generally triangular in shape with a first side of the triangle corresponding to the junction of a cutting ear with the corresponding contiguous sheet member, a second side of the triangle extending generally perpendicular to the plane of the sheet member, and a third side of said triangle comprising an angular cutting edge extending towards and blending in with the edge of the corresponding sheet member, said angular cutting edge defining an acute angle with the plane of the corresponding sheet member.

2,637,900
RAZOR BLADE CARTRIDGE UNIT
Marcus C. Thompson, Pasadena, Calif.
Application October 17, 1947, Serial No. 780,460
17 Claims. (Cl. 30—40)



4. A safety razor blade-feeding-and-receiving unit comprising a casing formed with blade-supporting means, a manually displaceable carriage slidable in said casing relative to said blade-supporting means and including blade-receiving means to remove a dull blade from a razor and blade-feeding means to insert a new blade in a razor, characterized in that the shifting of said carriage from a blade-receiving position to a blade-feeding position effects the transfer of a dull blade from the blade-receiving means to said blade-supporting means.

2,637,901
BEARD CLIPPINGS RECEPTACLE FOR ELECTRIC SHAVERS
Samuel Kahn, Bridgeport, and Curtis D. Mabry, Jr., Stamford, Conn., assignors to Schick Incorporated, Stamford, Conn., a corporation of Delaware
Application July 20, 1951, Serial No. 237,698
6 Claims. (Cl. 30—41)



1. The combination with a shaver case, a shearing head supported on the case at one end thereof and the case having a recess below and at each end of the shearing head, each said recess including a vertical wall substantially in the plane of the end of the shearing head and a substantially horizontal wall at the lower end of the vertical wall and a case opening in each of said vertical walls: of a clippings receptacle in each said recess having inner side and bottom faces respectively abutting the said vertical and horizontal walls, said receptacle having a thickened lower portion incorporating a slot open at the upper end and extending downwardly into the thickened portion, a pair of ribbon springs, one end of each spring being anchored in one of said case openings and the other end of each spring extending into one of the receptacles and having lateral projections seating in the slot of such receptacle, a first ramp sloping upwardly from the bottom toward the vertical wall of each said recess, and a second ramp, forming an extension of the first and sloping inwardly toward each said vertical case wall, the said inner side of each receptacle having a recess of a width to accommodate the said ramps.

2,637,902
SHAVING APPARATUS
Jonas Åke Gregorius Malmberg, Stockholm, Sweden
Application December 27, 1950, Serial No. 202,843
In Sweden November 22, 1950
3 Claims. (Cl. 30—43)



1. In a dry shaver of the type including a rotary slitted drum and an interior fixed blade in shearing relation thereto, a support for said blade comprising a longitudinally slotted open-ended hollow cylindrical casing disposed within said drum, a longitudinal edge of said casing being formed to provide a relatively deep and narrow groove adapted to receive and position said blade with its cutting edge contacting the inner surface of said drum, a frame supporting said casing in fixed relation thereto, and means pivotally mounted on said frame on an axis parallel to the longitudinal axis of said casing and swingable to a position closing both ends of said casing, thereby retaining said blade against longitudinal displacement.

2,637,903
FLEXIBLE CONDUIT CUTTER
Luther F. Mallasch, Glendale, Calif.
Application August 18, 1950, Serial No. 180,169
4 Claims. (Cl. 30—91)



1. A cutting tool for conduits comprising a pair of jaws having handles at the ends of said jaws, said jaws when closed forming a channel adapted to accommodate a conduit, the other ends of said jaws being pivoted together on an axis perpendicular to the axis of said channel formed by said closed jaws, and a cutting member pivoted on one of said jaws on an axis parallel with the axis of said pivot for the ends of said jaws, said member having a handle at one end and a cutting blade at the other end.

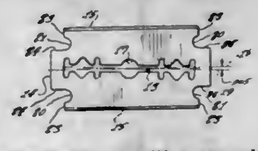
2,637,904
KNIFE HAVING A REPLACEABLE BLADE
Henry A. Springer, Cincinnati, Ohio
Application July 24, 1951, Serial No. 238,277
1 Claim. (Cl. 30—334)

A combined knife holder and replaceable blade comprising a clasp adapted to confine the replaceable blade, said clasp constituting a relatively thin strip of metal having a substantial width, said strip being folded upon itself intermediate its length to provide a fold in its forward end and a pair of parallel leaves, said leaves each having a stem of reduced width extending from the rearward end thereof, a threaded rod having an end fastened to both of said stems, a handle threaded upon the rearward end of said rod, a sleeve interposed between the handle and rearward end of said leaves, a kerf formed in the forward end of said sleeve adapted to embrace the rearward end portions of said leaves to force the same toward one another, a thin flexible knife blade interposed between said parallel leaves, said knife blade having an angular lip projecting outwardly from the forward end there-



of, said blade having a tang extending upwardly from the rearward end thereof, the fold at the forward end of said leaves having a notch formed therein adapted to receive the angular lip of the blade and thereby provide a fulcrum point adapting the body of the blade to be raised or lowered with respect to the leaves in the plane of the leaves, the tang at the rearward end of the blade being adapted to be engaged by the rearward end of the kerf of the sleeve and frictionally held therein when said handle is tightened to lock the blade in angular position by endwise pressure applied against the lip and tang, whereby the flexible blade is maintained in straight condition counter to said endwise pressure by said spaced leaves.

2,637,905
BIAS SAFETY RAZOR BLADE
Robert Owen Williams and Owen Eugene Williams, Jackson Heights, N. Y.; said Owen Eugene Williams assignor to Elizabeth Gertrude Williams, Jackson Heights, N. Y.
Application April 24, 1952, Serial No. 284,996
1 Claim. (Cl. 30—351)

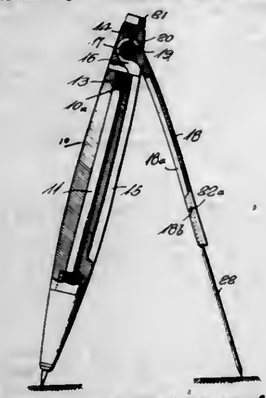


A razor blade for use with a razor having a cap provided with a stud centrally thereof, elongated blade aligning lugs adjacent said stud and extending along the longitudinal axis of said cap and blade aligning lugs adjacent the corners thereof, said razor blade having at least one shaving edge and having an elongated slot receiving the stud and elongated lug means on the cap, said slot being positioned slightly from the longitudinal axis of the blade so as to be disposed at an angle at each end of the blade spaced substantially five thousandths of an inch from the longitudinal axis of said blade, said blade having end notches therein for receiving the corner lug means of the cap with two diagonally opposite notches being cut into the ends thereof a greater distance inward than the correspondingly opposite notches on said blade.

2,637,906
COMBINATION SCRIBING AND COMPASS UNIT
Louis J. Giossi, Brooklyn, N. Y.
Application April 17, 1952, Serial No. 282,855
3 Claims. (Cl. 33—27)

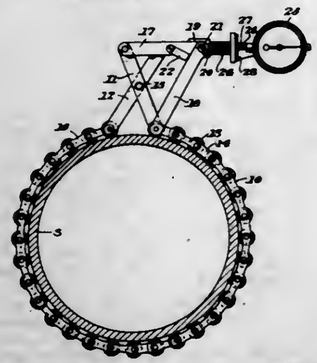
1. A compass pencil comprising a pencil casing having its periphery provided with a recess ex-

tending longitudinally thereof, a head portion removably secured to the upper end of said casing, a compass leg element comprising a main section pivotally secured to said head portion and an extension section telescoping into said main section to permit housing of the telescoped



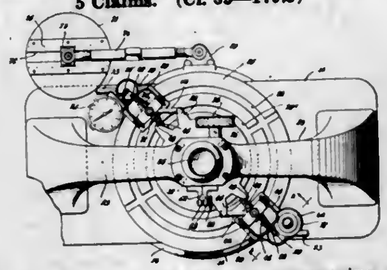
sections in the longitudinal recess of the casing, the upper end portion of said main section having a V-shaped groove and a taper pointed threaded member carried by the head member to cooperate with the groove bottom and provide friction anchoring of the main and extension sections.

2,637,907
EXTENSOMETER FOR CYLINDRICAL MEMBERS
Richard Aubrey, Jr., and Venice J. Aubrey, Boardman Township, Mahoning County, Ohio, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a corporation of Ohio
Application November 30, 1946, Serial No. 713,209
9 Claims. (Cl. 33—179)



1. An extensometer for cylindrical test specimens comprising a flexible member adapted to be disposed in circumferential engagement with a specimen, said member having anti-friction means disposed at intervals therealong positioned to engage the surface of the specimen and freely movable circumferentially of the specimen to inhibit frictional binding of said member against the specimen due to changes in the circumferential length of the specimen, a pair of levers pivoted together, one end of each lever being pivoted to an end of said member, a guide block pivoted to the other end of one of said levers, a pin pivoted to the other end of the other lever and slidable through said guide block, and indicating means controlled by said pin.

2,637,908
CUTTER SPACING CHECKER
Gustave H. Hedman, Kenmore, N. Y., assignor to Farrel-Birmingham Company, Inc., Buffalo, N. Y., a corporation of Connecticut
Application April 26, 1945, Serial No. 590,482
5 Claims. (Cl. 33—179.5)



1. A device for checking or comparing the spaces between a predetermined number of substantially equally spaced teeth on a gear-shaped member, said device comprising means for rotatably supporting the gear-shaped member to be checked, two brackets mounted in adjustable, circumferentially spaced relation about the axis upon which the gear-like member is supportable, a pivoted finger carried by each of said brackets, spring means biasing the fingers to normally hold them radially of the member to be checked, the inner ends of said fingers being adapted to contact respectively the corresponding faces of the teeth between which the space is to be checked, an eccentrically mounted rotatable disc carried by one of the brackets and constituting an adjustable stop for engaging the outer end of the finger carried by said bracket, an indicating mechanism carried by the other bracket and the outer end of the finger carried by said bracket being operatively associated with the indicating mechanism.

2,637,909
INSIGNIA PLACING DEVICE FOR COMBAT JACKETS
Millard F. Thacker, Fort Sam Houston, Tex.
Application November 2, 1950, Serial No. 193,622
4 Claims. (Cl. 33—180)



1. As a new article of manufacture, an insignia-positioning device adapted to be positioned on the lapel of a uniform jacket comprising a front wall, a back wall, a web connecting said front wall to said back wall, there being a pair of

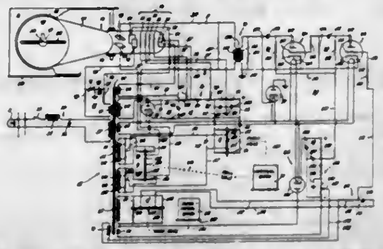
spaced semicircular cutouts arranged in the forward edge of said front wall and equally spaced from the ends of said front wall.

2,637,910
DOOR HANGING GAUGE
Millard F. Buttram, Oneida, Tenn.
Application January 25, 1949, Serial No. 72,618
1 Claim. (Cl. 33—197)



In a door hanging gauge, a beam provided intermediate its ends with a longitudinally extending opening, a carriage slidable transversely in said opening and formed with a plurality of parallel bores, a plurality of pointed marking pins slidable in the respective bores, and a flat lock marking templet secured to said beam adjacent said opening and projecting laterally therefrom, said plate being disposed in a plane parallel to said pins.

2,637,911
AIRCRAFT INSTRUMENT
Merle R. Ludwig, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 25, 1946, Serial No. 650,047
12 Claims. (Cl. 33—204)



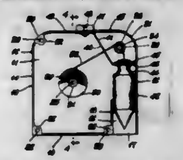
6. An instrument for indicating variation in a plurality of conditions from selected values comprising, in combination: means giving a single continuous indication variable in a plurality of distinguishable characteristics when variably energized with continuous unidirectional voltage and with pulsating unidirectional voltage; means normally maintaining said characteristics in a selected state; means supplying a continuous unidirectional voltage which varies in accordance with a first condition; means supplying a pulsating unidirectional voltage which varies with a second condition; means adding said voltages; and means applying the resulting voltage to said first named means, to cause said characteristics to depart from said selected state when said conditions depart from selected values.

2,637,912
SPIRIT PLUMBING TOOL AND LEVEL
William G. Baldwin, Wilkinsburg, Pa.
Application March 5, 1951, Serial No. 213,951
15 Claims. (Cl. 33—207)



1. A spirit leveling and plumbing tool comprising an elongated thin flat backing plate, a rectangular tube having a bubble tube mounted therein attached transversely of the front side of the backing plate and near the end of the plate with the ends of the rectangular tube being flush with the edges of the backing plate and positioned at right angles to the longitudinal axis of the backing plate, a rectangular tube having a bubble tube therein with a flat face mounted on the front side of the backing plate at substantially the center of its longitudinal axis with the surface of the bubble in the bubble tube parallel to the longitudinal axis of the plate, said longitudinal rectangular tube being secured to the thin plate to reinforce the plate against sagging, said rectangular tubes being cut away at the central portion thereof to expose graduations on the bubble tubes, and openings in the backing plate adjacent the cut-out portion of the rectangular tubes to permit the bubble tubes to be observed from the back side of the backing plate.

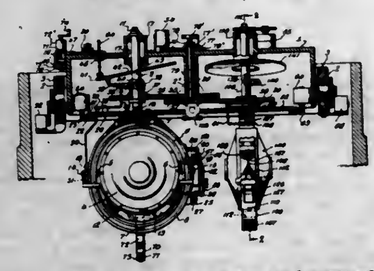
2,637,913
PLUMB BOB CARRIER
Edward S. Williams, New Philadelphia, Ohio
Application August 10, 1950, Serial No. 178,668
2 Claims. (Cl. 33—217)



1. A plumb bob carrier comprising a relatively flat, substantially rectangular housing having an opening at one lower corner, a partition wall adjacent to said opening and extending upward within the housing to a point spaced from the top thereof forming an open ended compartment within the housing, a reel journalled within the housing between said partition wall and the opposite edge of the housing, a crank handle exterior of the housing for operating said reel, a transverse post in the housing centrally located above the upper open end of said compartment, a plumb line coiled upon the reel and located over said transverse post, a plumb bob connected to the end of the plumb line and adapted to be withdrawn through said opening into the compartment and entirely within the housing, an enlarged head upon the top of the plumb bob, a latch member slidably mounted upon the top wall of the housing and having a depending portion terminating in a bifurcated end for en-

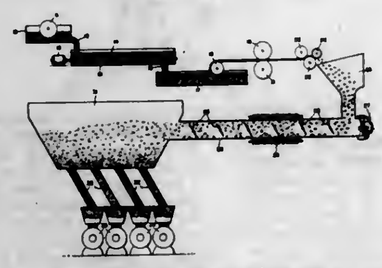
gaging under said enlarged head to hold the plumb bob entirely within the housing, and means upon the exterior of the housing for operating the slidable latch member.

2,637,914
SELF-ORIENTING THREE-AXIS REFERENCE APPARATUS
Arthur L. Rawlings, Waterbury, Conn., assignor to The Sperry Corporation, a corporation of Delaware
Application September 8, 1948, Serial No. 48,227
16 Claims. (Cl. 33—226)



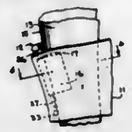
2. A combined gyro compass and gyro vertical for mobile craft comprising a universally supported frame, two gyro compasses mounted on said frame having relatively movable sensitive elements and power driven followers, a yielding connection between the power driven follower of the first gyro compass and the sensitive element of the second gyro compass, and means for adjusting said yielding connection so that the gyro axle of said second compass normally lies substantially horizontal and substantially east and west.

2,637,915
APPARATUS FOR TREATING PULP AND RESIN MIXTURES
Alexander C. H. Weiss, Silver Spring, Md.
Application May 6, 1948, Serial No. 25,445
2 Claims. (Cl. 34—57)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for extracting moisture from a mixture of kraft pulp and resin fragments having a high moisture content and comprising, in combination, a horizontally disposed duct having a blower mounted at one end thereof for blowing air forwardly therethrough, a hopper positioned above said duct forwardly of said blower, a plurality of pivoted butterfly baffles spaced longitudinally of said duct, each of said baffles extending across said duct in partially obstructing relation thereto, said baffles being adjustable from a horizontal position to a vertical position wherein said duct is substantially closed whereby the time required for passage of the air and fragments through said duct may be varied, and means for heating said duct to heat the air and fragments during the passage thereof through the duct whereby said fragments are partially dried by said heat.

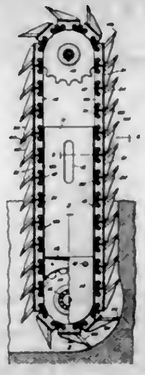
2,637,916
PROTECTOR FOR TROUSERS
Andrea Pagano, Manton, France
Application November 21, 1950, Serial No. 196,735
In France December 10, 1949
4 Claims. (Cl. 36—2)



1. In a protector for trousers, a shield including a waterproof pliable sleeve dimensioned and operable for surrounding a leg of trousers, and means for releasably attaching said shield to said leg comprising two hinged arms, each arm being connected to said shield, said arms being movable relative to each other between a closed position and an open position, each arm including an extension projecting inwardly in said closed position whereby a portion of said leg may be gripped between said extensions disposed oppositely in the closed position, a hinge intermediate said arms and including coaxially arranged hinge parts connected to said arms, said hinge parts being hollow and non-circular and tapered converging downwardly throughout the length of said hinge and being in aligned registry in the closed position, a pin disposed in said hollow hinge parts and having a portion of non-circular tapered shape matching that of said parts and a circular portion of restricted diameter, said pin being movable axially of said hinge between an inactive station wherein at least one of said hinge parts may be turned about said circular portion and an active station wherein said non-circular portion may be received by said hinge parts when in registry to lock the same.

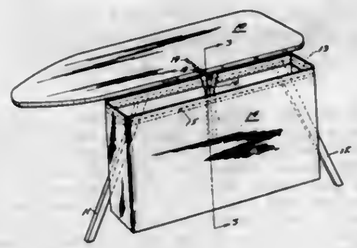
2,637,917
EXCAVATING MECHANISM FOR TRENCH DIGGING MACHINES
Hermann Klaucke, Worcester, Mass., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 19, 1947, Serial No. 753,775
5 Claims. (Cl. 37—191)

3. A narrow-trench excavating unit for trenching machines, comprising a single endless strand of sprocket chain composed of pivotally connected links, alternate ones of which are of U-shaped cross section; a plate member rigidly secured to the outer face of the cross member of each of said U-shaped links and extending laterally to either side thereof, said plates being of a length to substantially abut one another when the links are alined in the straight cutting run of the chain; a bracket member detachably secured to each U-shaped link outwardly of its plate and having an extension projecting forwardly from the latter at an acute angle thereto; and a flat cutter member detachably secured to and paralleling said angular extension of each of said brackets, the forward edge of each cutter mem-
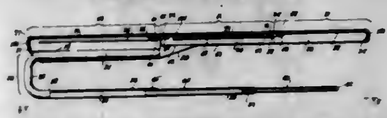


ber being provided with a plurality of transversely spaced pick-like teeth.

2,637,918
IRONING BOARD BASKET
Edward H. Mayhew, Youngstown, Ohio
Application May 20, 1949, Serial No. 94,451
2 Claims. (Cl. 38—111)



1. An ironing board basket and means for removably mounting the same on an ironing board, said means comprising a mounting bracket for positioning beneath the top of said ironing board midway between the ends thereof, the basket comprising a one piece horizontally disposed rectangular frame, the ends of which are outturned and positioned in side-to-side relation to extend outwardly from one side of said frame for engagement with said bracket and means to hold the ends in said position, a fabric bag having a vertical slit in one side and a hem around the top threadably engaged on said rectangular frame and depending therefrom for receiving articles from the top of said ironing board.

2,637,919
SECTIONAL COLLAPSIBLE PRESSING BOARD
Josephine S. Buchanan, Sharon, Conn.
Application June 28, 1950, Serial No. 170,837
2 Claims. (Cl. 38—138)

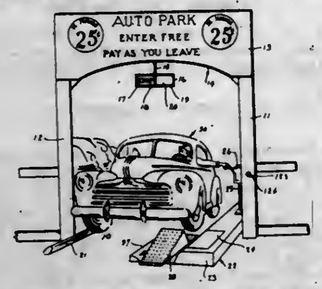


2. A telescoping pressing surface comprising at least two members having relatively thin flat surfaces adapted to be assembled in co-planar side-by-side relationship to provide a pressing surface, the flat surface of the first member being defined in part by parallel edges and a transverse edge at right angles thereto, the flat surface of the second member being defined in part by parallel edges slightly closer together than those of the first member and a transverse edge at right angles thereto, said transverse edge of the flat surface of the second member being adapted to abut the transverse edge of the first member, skirt portions depending from the parallel edges of the first member and having guideways provided therein, a plate member affixed to the underside of the flat surface of the second member adjacent the transverse abutting edge of said second member and extending outwardly therefrom parallel to the flat surfaces of said first and second members, projecting guide means provided on said plate member extending outwardly therefrom at right angles to the parallel edges of said second member, the guide means provided on said plate member being adapted to engage the guideways on the skirt portions of the first member, each of said guideways including a lower track extending parallel to the flat surface of said first member substantially the length of said member and an upper track parallel to said lower track and spaced therefrom, said upper track extending from a point adjacent the transverse edge of the first member a short distance inwardly along said skirt, a connecting track between said upper and lower tracks adjacent the transverse edge of the first member, the guide means on said plate being adapted to move along the lower tracks of each of said guideways through the connecting track and into the upper track to position the second member in co-planar side-by-side abutting relationship with the flat surface of the first member, and releasable holding means for maintaining the two members in side-by-side relationship along their respective transverse edges.

2,637,920
BARRIER FOR MOTOR VEHICLE PARKING SYSTEMS
Glen S. Stratton, New York, N. Y.; Robert M. Stratton, Cook County, Ill., administrator of said Glen S. Stratton, deceased, assignor to Richard H. Hallsted, New Canaan, Conn., trustee
Application April 28, 1949, Serial No. 90,132
12 Claims. (Cl. 39—6)

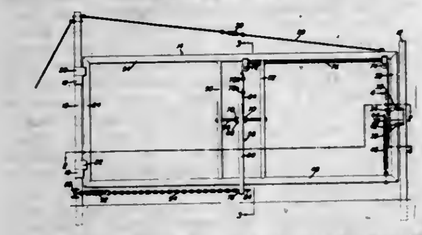
1. In a device of the character described, a vehicle barrier device normally displaceable by at least one wheel of a vehicle passing therethrough in one direction, which includes at least two plate members having their adjacent ends hinged together, one of said members having its opposite end fixed against lateral and longi-

tudinal movement, the other having its opposite end pivotally connected to horizontal guide means and consequently fixed against lateral movement and movable longitudinally in one plane, means urging at least one of said members in a direction



to cause said last-mentioned end to move towards said first-mentioned end to form said barrier, and mechanism acting against the urge of said means for moving said last-mentioned end in the opposite direction for disposing said members in a common plane.

2,637,921
SELF-OPENING AND CLOSING BUMP GATE
Valdemar A. Lein, Driscoll, N. Dak.
Application October 27, 1950, Serial No. 192,457
10 Claims. (Cl. 49—31)



1. A self opening and closing device comprising first and second vertical posts, a closure member mounted on the first post for swinging movement about a vertical axis toward and away from the second post, a locking mechanism on the closure member for engaging the second post, a horizontally pivoted bumper-engaging member mounted on the closure, means connecting the bumper engaging member to the locking mechanism for releasing the locking mechanism upon upward swinging movement of the bumper engaging member, means swingably mounted on the closure member and actuated by the bumper engaging member, and spring means connecting said swingably mounted means to said first post and actuated by said swingably mounted means and yieldingly urging the closure member to an open position.

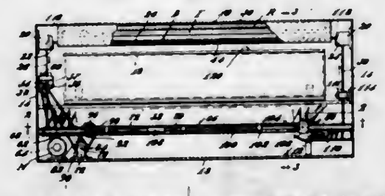
2,637,922
FOWL MARKER
Horace W. Dryden, Modesto, Calif.
Application June 4, 1949, Serial No. 97,192
4 Claims. (Cl. 40—3)

1. A fowl marker comprising a relatively large wing badge member having an identifying insignia visible from one face thereof and adapted to be supported in an upright position from the base of the wing structure, a relatively wide flange rigid therewith and projecting from the opposite face thereof and normal thereto, the flange being adjacent an edge of the member and extending lengthwise thereof for seating engagement on the said base portion of the wing, said flange having opposite end extensions of bendable band form



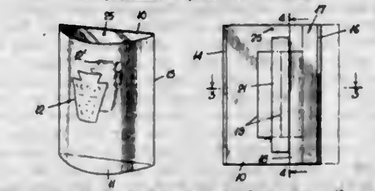
disposed in a plane parallel to said member and having terminal securing means, the extensions being substantially rigid transversely thereof and being of a length to provide with the intermediate flange upon engagement of the securing means a relatively wide loop member for loosely embracing the said wing base portion between the opposing surfaces thereof.

2,637,923
DISPLAY APPARATUS
Joseph Taddonio, East Boston, Mass.
Application January 23, 1951, Serial No. 207,283
7 Claims. (Cl. 40—28)



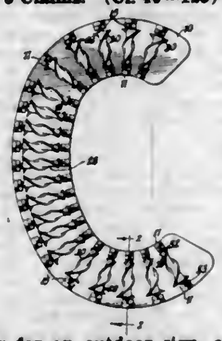
1. A display apparatus comprising a housing having a sight opening therein, a sight reflector in the housing inclined to and facing said sight opening, spaced supporting rolls within the housing, a continuous endless belt arranged on said supporting rolls with one run in a substantially horizontal position above the sight opening, and with the remainder of the belt suspended therefrom out of registry with the sight opening, said belt having transparent pockets therein in which are placed objects for display, means in the housing for projecting a light beam through the belt onto said sight reflector, said sight reflector being adapted to receive images carried by the light beam, and to redirect the beam through the sight opening, a storage space below the sight opening in which the suspended portion of the belt is stored, a pair of feed rolls close to one of the supporting rolls between which the belt passes from its horizontal run to the storage space, means for effecting rotation of the feed rolls continuously to draw successive portions of the belt across said supporting rolls and deliver them to the storage space, said belt being of such fullness that at any given time only a small portion thereof spans said rolls and the remainder falls in folds in the storage space, and a slowly traveling conveyor in the storage space on which the folded portions of the belt fall for conveying the folds slowly toward the opposite end of the housing for redelivery to the support rolls.

2,637,924
DISPLAY DEVICE
Herman H. Hutt, Brooklyn, N. Y.
Application July 1, 1948, Serial No. 36,332
4 Claims. (Cl. 40—124.1)



1. A display device of the class described comprising a back-board of relatively firm material, a sheet of flexible translucent material of greater width than said back-board, one edge of the last named sheet being foldably hinged to one side edge portion of said back-board, the other side edge portion of said flexible sheet being foldably attached to a lock element, a strap arranged vertically on the back-board and forming, in conjunction therewith, a pocket for reception of said lock element, said lock element retaining the parts in assembled relationship at all times while permitting movement of the parts from a flat collapsed position to a position in which the flexible sheet is extended forwardly with respect to and within side edges of said back-board, said lock element comprising hingedly related parts, one part comprising a tongue member slidably and frictionally engaging said strap and back board, and the other part being of substantially the same vertical dimensions as that of the back-board and abutting the strap in the support of said parts in set up condition one with respect to the other.

2,637,925
SIGN
Clifford Walton, Buffalo, N. Y.
Application February 9, 1950, Serial No. 143,271
3 Claims. (Cl. 40—125)



1. A letter for an outdoor sign, comprising a base having the outline of said letter, a plurality of pairs of alined bearings fast to said base and arranged along the opposite marginal portions of said base, said pairs of bearings being spaced along said marginal portions to substantially completely outline said letter, and the spacing of said pairs of bearings being substantally closer than the spacing of the bearings of each pair, a rotor having its opposite ends journalled in each pair of said bearings and screw-like splines projecting from said rotor a sufficient distance to rotate said rotors through motion derived from outside air currents.

2,637,926
ILLUMINATED SIGN
William J. Anderson, Springfield, Ohio, assignor, by mesne assignments, to Albert E. Payne, Springfield, Ohio
Application November 28, 1947, Serial No. 783,456
2 Claims. (Cl. 40—130)



1. In a sign of adjustable length, a base comprising a plurality of individual base parts and having a recess opening upwardly in at least some of said base parts, individual illuminating means entirely enclosed within the recess of each base part and positioned wholly below the upper surface thereof, upstanding indicia of light conducting media having the entire upper configuration portion above the base which upper portion emits light over its entire surface, said indicia being detachably mounted to a said base part by means of a lower portion having a width as viewed in end elevation of not less than that of said upper portion and adapted to seat over said illuminating means and close the top of an individual recess, electrical conductors extending through said base parts and conducting to said illuminating means and connectors in the ends of said base parts for making continuous electrical connections between said conductors.

2,637,927
LUMINOUS SIGN
Peter A. Gadomski, South Bend, Ind.
Application January 5, 1949, Serial No. 69,296
1 Claim. (Cl. 40—142)

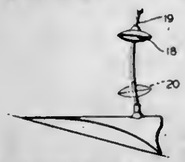


A sign comprising an elongated rigid carrier having a longitudinal groove, a sign character formed of translucent plastic material having a shape representing an indicia and forwardly projecting marginal flanges, and a rigid elongated mounting member secured to one of said flanges and extending alongside and in substantially the same plane as said character, said mounting member having a snug detachable fit in said groove, said carrier and mounting member both being of channel shape in cross-section and said mounting member being resilient, said channel members both having opposed inwardly curved side walls defining reduced dimension portions intermediate the mouth and the base of said channels.

2,637,928
NOVEL ORNAMENTAL ACCESSORY FOR VEHICLES
William F. Tufts, Atlanta, Ga.
Application June 6, 1952, Serial No. 292,170
1 Claim. (Cl. 41—34)

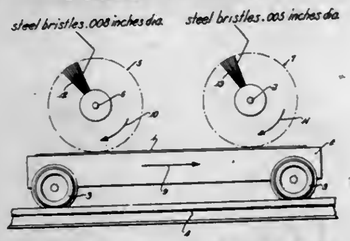
In combination with a vehicle, an ornamental device comprising a substantially flattened ellipsoidal object having a central bore trans-

verse to the plane of said flattened ellipsoidal object, a substantially vertically disposed rod extending through said bore, said rod including between the ends thereof a substantial bend for changing the angle of the plane of said object with respect to a flow of air substantially transverse to the axis of said rod whereby the respec-



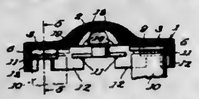
tive sides of the plane of said object are presented to said flow of air as vertical oscillatory motion of said object with respect to said rod is effected by the flow of air over the respective sides of said object, and air reacting fins carried by said object in the path of flow of said air for imparting rotary motion to said object about said rod as an axis.

2,637,929
PROCESS FOR PRODUCING LITHOGRAPHIC PRINTING PLATES
Walter J. Hausman, Washington, D. C.
Application April 27, 1950, Serial No. 158,480
3 Claims. (Cl. 41—39)



1. A process for producing a lithographic plate which comprises brushing one side of a sheet of at least 99% pure aluminum with a first brush having relatively coarse steel bristles to tear the skin of the sheet and to form a coarse grain, brushing said side of said sheet with a steel brush having relatively finer bristles to subdue the coarse grain formed by said first brush, immersing said sheet in a saturated aqueous solution of calcium hydroxide maintained at a temperature between 175° F. and 185° F. for a period of from about 25 seconds to about 55 seconds, and water scrubbing and drying said plate.

2,637,930
RELOADING CLIP FOR REVOLVERS
Laurence S. Mason, Prescott, Ariz.
Application March 1, 1951, Serial No. 213,307
2 Claims. (Cl. 42—89)



1. A reloading clip for revolvers comprising a one-piece unit of resilient plastic material having a flexible central portion and individual cartridge supporting portions projecting radially outwardly from the periphery of said central portion, each projecting portion having on its underface a cartridge seat conforming to the flanged end of a cartridge, and a depending wall partially encircling the cartridge seat for retaining the cartridge from lateral movement on the seat, ribs formed integrally with said depending wall and disposed so as to engage beneath the cartridge flange at opposite sides of the cartridge for firmly holding said cartridge in engagement with its seat, said depending walls of the cartridge supporting portions having depending feet adapted to engage the end of the cylinder of the revolver when the cartridges are inserted in their respective chambers for holding the central portion of the clip spaced from the cylinder so that pressure applied to the central portion of the clip will flex said portion inwardly and cause a simultaneous tilting of the cartridge supporting portions outwardly away from the end of the cylinder and a release of the cartridges from the clip.

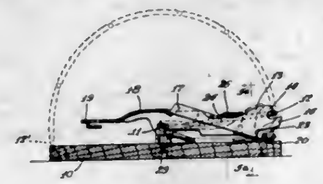
2,637,931
LATCHING AND RELEASING MEANS
Nathan R. Sklar, Chicago, Ill.
Application January 16, 1951, Serial No. 206,200
8 Claims. (Cl. 43—83)



6. An animal trap comprising a base, a jaw member pivotally mounted on the base for movement between a cocked position in which the jaw member is angularly displaced relative to the base and a sprung position in which the jaw is parallel to and in contact with the base, means biasing the jaw member to sprung position, a trigger having a release opening pivotally mounted on the base, a latch pivotally mounted on the base and having a first portion extending through a slot in the jaw member and a return curved portion parallel to and vertically spaced from the first portion, a finger carried by the first portion of the latch for engaging the slot to hold the jaw member in cocked position, a second finger carried by the return curved portion with said second finger comprising a cam portion terminating in a hook and with said cam being adapted to pivot the trigger upon pivotal movement of the latch to align the opening in the trigger with the second finger for hooking engagement to hold the first finger in engagement with a portion of the head at the slot, and a guide member on the jaw member, said guide member having a pair of spaced parallel legs straddling the return curved portion of the latch and having a base between the legs adapted to contact the recurved portion as the jaw member is pivoted toward cocked position whereby to engage the first finger with the portion of the head at the slot and to engage the hook with the portion of the trigger adjacent opening to hold the jaw member in cocked position.

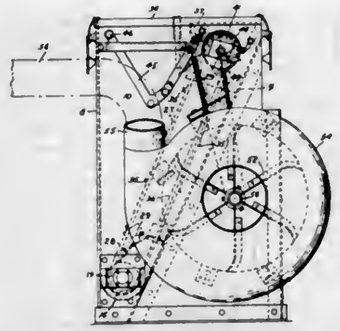
2,637,932
ANIMAL TRAP
Herbert A. Stilson, Chicago, Ill., assignor to McGill Metal Products Company, Marengo, Ill., a corporation of Illinois
Application May 20, 1950, Serial No. 163,284
5 Claims. (Cl. 43—83.5)

3. In an animal trap having a base and a spring actuated striker, the combination including a latch for releasably retaining the striker in set position and a two-legged staple secured in the base, said latch comprising an extension arm having a notched portion at the rear thereof and a curved tongue integral with the extension arm at the rear and extending laterally therefrom, said tongue having a notch at one side thereof,



said latch being assembled to the base with its tongue beneath said staple and with one leg of the staple passing through the tongue notch, said latch being attached solely by the staple above the curved tongue for a limited movement with the underside of the curved tongue engaging said base.

2,637,933
DUSTING MACHINE
John A. Chater, Medina, N. Y., assignor, by mesne assignments, to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application October 2, 1945, Serial No. 619,908
8 Claims. (Cl. 43—148)



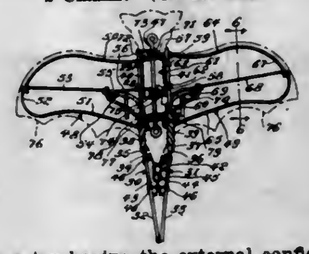
1. In a dusting machine having a main hopper for containing dust, said main hopper having a discharge outlet near its top; the improvement which comprises a V-grooved pulley mounted for rotation adjacent the bottom of the hopper, a second V-grooved pulley mounted for rotation near the top of the hopper, a V-belt running in the grooves of the pulleys, means connected to a source of power to rotate one of the pulleys, flights on the V-belt, an auxiliary hopper positioned at the top of the main hopper to receive dust elevated by the flights, a shaft supporting the upper V-pulley and extending through the auxiliary hopper and through said outlet, a feed box through which the shaft also extends positioned outside the hopper, means revolving with said shaft for propelling dust from the auxiliary hopper into the feed box, and means revolving with said shaft for discharging dust from the feed box.

2,637,934
TOY FENCE AND ELEMENTS
Jack Manoil, Waverly, N. Y., assignor to Manoil Manufacturing Co., Inc., Waverly, N. Y., a corporation of New York
Application November 10, 1950, Serial No. 195,066
5 Claims. (Cl. 46—17)



1. In a structural toy outfit for building toy fences, a fence unit comprising three post members rigidly interconnected by horizontal bars, one end post member and the intermediate post member each having a flat flanged base so that the unit stands upright on a flat support, the base having vertical apertures therein, the other post member having a lower end receivable in the apertured base of another similar unit.

2,637,935
FLAPPING WING TOY
William Eugene Polk, Shreveport, La.
Application October 27, 1948, Serial No. 56,683
2 Claims. (Cl. 46—118)

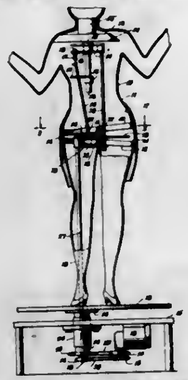


1. In a toy having the external configuration of a creature, a pair of levers each provided with a handle on one end thereof, a spring mounting arranged between said levers, said spring mounting comprising a pair of blocks secured to said levers, a spring member connecting said blocks together and normally urging said handles away from each other, a rod arranged in spaced parallel relation with respect to the other ends of said levers, a first and second wing mounted for oscillatory movement, said first and second wings each including a frame fabricated of wire shaped to define a pair of arms having one end interconnected together by a web, a brace extending between said pair of arms, the brace of one wing being arranged in alignment with the brace of the other wing, a portion of one of said arms extending angularly with respect to the main portion thereof and secured to said brace, said other arm and said brace each being provided with a coil pivotally engaging said rod, said coils terminating in offset portions, a link extending between said offset portions and provided with a pair of coils pivotally engaging one of said levers.

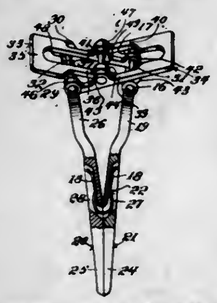
2,637,936
ANIMATED FIGURE
Frank L. Dale, New York, and Levitt L. McMickle, Glendale, N. Y., assignors to Mechanical Man, Inc., New York, N. Y., a corporation of New York
Application March 4, 1950, Serial No. 147,646
3 Claims. (Cl. 46—120)

1. An animated figure comprising a flexible hollow casing simulating a human form includ-

ing an upper hollow body portion forming a simulated human trunk, arms, shoulders, neck, and head portions; a lower hollow body portion composed of feet, legs, and lower hip portions; a lower edge encircling and terminating said upper body portion, an upper edge terminating and encircling said lower body portion adjacent to but spaced from said lower edge of said upper body portion; a first hoop positioned within and contacting said lower edge, a second hoop positioned within and contacting said upper edge, a reciprocable integral cruciform positioned within said casing, a cross arm on said cruciform pivotably supporting said hoops at their outer ends, shaft and link means attached to said cruciform, and means driving said shaft and link means to cause said cruciform to reciprocate whereby said pivotably mounted hoops are oscillated and said contacted casing is provided an oscillatory motion.

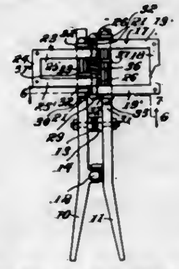


2,637,937
FLAPPING WING TOY
William Eugene Polk, Shreveport, La.
Application June 10, 1949, Serial No. 98,229
1 Claim. (Cl. 46—124)



A mechanical toy device simulating a fanciful object comprising a pair of handles, each of said handles including an end portion adapted to be gripped in the user's hands, the other end of each of said handles terminating in a jaw, said jaws being offset with respect to said end portions, there being a countersunk recess arranged in each of said end portions, said recesses being arranged in facing relation with respect to each other, a U-shaped spring member interconnecting said handles together and including a pair of spaced apart legs seated in said recesses, pairs of eye supports arranged on each of said jaws, said eye supports being provided with registering openings, a securing element extending through each pair of eye supports on each of said jaws, said securing elements being mounted for movement toward and away from each other upon actuation of said handles, a pair of movable wings operatively connected to said securing elements, each of said wings including a web, and a pair of spaced parallel arms extending from said web, a first and second bearing support extending from each of said arms, there being an opening in each of said bearing supports, said securing elements passing through said openings in the first supports and a pivot bolt extending through the openings in the second supports.

2,637,938
FLAPPING WING TOY
William Eugene Polk, Shreveport, La.
Application June 15, 1949, Serial No. 99,172
1 Claim. (Cl. 46—124)

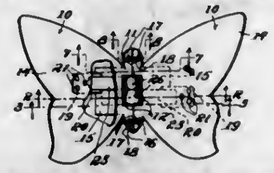


In a toy, a pair of handles, a swivel pin pivotally connecting said handles together intermediate of their ends, one end of said handles adapted to be gripped in the user's hand for causing pivotal movement of the handles, a pair of U-shaped reinforcing members including a pair of stems extending outwardly of a base member and having bearing supports on the outer ends of the stem members, short extensions on each stem extending at an acute angle thereto and having bearing supports on the outer ends thereof, a first section of a bird or insect simulating wing member secured to each of said reinforcing members, a second section of a similar wing member secured to said extensions, a first through bolt pivotally connecting the bearing supports on the stems of the reinforcing members, a second through bolt passing through the bearing supports on each extension for pivotally connecting each extension to the other end of said handles, spring means connected to said first and second through bolts, so that upon compression of the one end of said handles said wings will move up and upon release of the one end of said handles said spring means will cause said wings to move down into normal position, and said spring means embodying a coil spring circumposed on said first said through bolt.

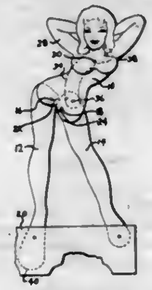
2,637,939
FLAPPING WING TOY
William Eugene Polk, Shreveport, La.
Application June 23, 1949, Serial No. 100,810
1 Claim. (Cl. 46—124)

In a toy, a pair of wing sections fabricated of sheet material and each provided with a slot, the slot in one of said wing sections extending rearwardly from an edge therein, and the slot

in the other wing section extending forwardly from an edge whereby with the wing sections in their assembled position, each wing is positioned in the slot of the other wing, each of said slots having its inner end terminating in an enlarged cut-out, said wing sections each comprising an upper wing portion, a lower cover portion and a body section, said cut-out being positioned in said body section, there being a plurality of apertures in each of said wing sections, cords extending through said apertures for connecting said wing sections together, a strip secured to each of said wing sections and provided with an offset portion defining a pocket, an operating mechanism for reciprocating said wing sections, said operating mechanism comprising a pair of arms extending through said cut-outs and pivotally connected together therein, an end of each of said arms being seated in said pockets, and a finger-engaging loop arranged on the other end of each of said arms.

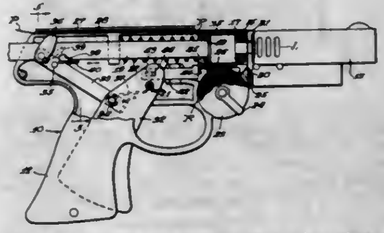


2,637,940
ANIMATED AMUSEMENT FIGURE
Jay T. Fugitt, Renton, Wash.
Application June 27, 1950, Serial No. 170,615
3 Claims. (Cl. 46—136)



1. An animated amusement cut-out figure or the like, comprising a head portion having a front and back, a body portion lapping behind and pivotally connected to said head portion at a location in the lower central region of said head portion, a pair of depending limb elements lapping behind, and pivotally connected to, the lower region of said body portion at laterally spaced locations thereon, to swing said body portion from side to side about its pivotal connections to said limb elements accompanying opposite conjoint swinging of the latter from side to side, link means located behind said body portion and pivotally connected at its lower end to one of said limb elements at a location on such limb element offset laterally from one side of the pivotal connection of such limb element to said body portion, said link means being pivotally connected at its upper end to said head portion at a location on such head portion offset laterally from the pivotal connection of such head portion to said body portion, such latter offset being from the same side of the pivotal connection between said head portion and said body portion as the offset of the pivotal connection between said pivotally connected limb element and link means from the pivotal connection between such limb element and said body portion, a base member, and means pivotally connecting said base member to the feet portions of said limb elements at respective spaced apart locations on said base member.

2,637,941
PAPER BURSTER GUN
Harold L. Langes, Chicago, Ill., assignor to Langson Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application December 12, 1949, Serial No. 132,458
4 Claims. (Cl. 46—195)

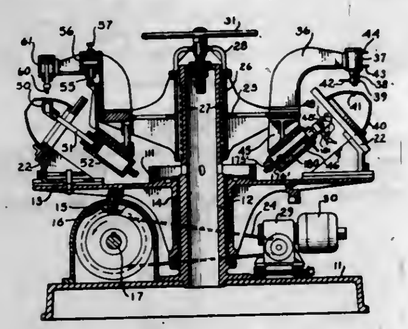


2. In a paper-burster gun having a housing and having feedable and burstable paper therein as well as means including movable piston means for developing air pressure to burst the paper, the combination including mechanism for interconnection and disconnection with the piston means to cock the piston means and to feed the paper comprising linkage having paper feed means and projecting engaging means thereon, with the latter adapted to mechanically connect with the piston means to move the same and with said paper feed means at the same time adapted to engage and move the paper, a fixed cam within the housing engageable by said engaging means contemporaneously with the disconnection of the latter from the piston means and with said paper feed means on said linkage moving in accordance with said engaging means, said fixed cam displacing said engaging means downwardly and said paper feed means moving therewith away from connection with the paper, and a fixed projection within the housing spaced from said fixed cam adapted to be engaged by said engaging means substantially at the end of the downward movement, said fixed projection being of a length less than the total distance of the return movement of the paper feed means and engaging means on said linkage, and by the engagement of the engaging means therewith said fixed projection is adapted to guide the paper feed means and maintain the same out of engagement with the paper on such return movement.

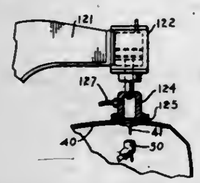
2,637,942
GLASSWORKING MACHINE
Ray A. Hinkley, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application January 25, 1950, Serial No. 140,509
8 Claims. (Cl. 49—1)

1. In a glass-working machine, means for initially locally heating a wall area of a glass article, a punch and die assembly, means for associating said assembly with opposite sides of the locally heated wall area, means for operating

said assembly to perforate the article wall thereat, means for freely depositing an electrically conductive element in the resulting perforation and on the glass bordering the same, said means including a vacuum chuck for holding said element in initial register over said perforation and means for thereafter disabling said chuck to release said element for deposit in said perforation, and means for heating the element and for further heating the surrounding glass on which it rests to seal them to one another.

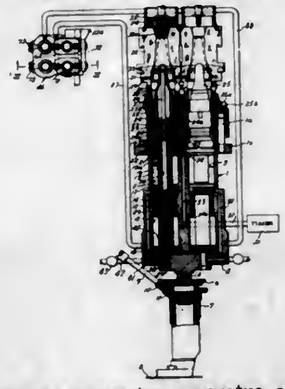


2,637,943
REALIGNING METHOD AND APPARATUS
Francis R. Painter, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application March 9, 1950, Serial No. 148,608
2 Claims. (Cl. 49—1)



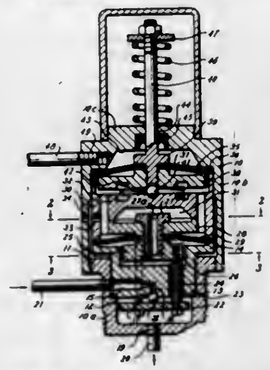
1. A machine for sealing an electrically conductive element or the like into that wall portion of a glass article surrounding a perforation in which such element has been deposited, including means for heating the element and the article wall solely in the area immediately surrounding the perforation to soften such glass and effect a weld between it and the element but leaving the area outside of said first-mentioned area in unsoftened condition, the softening of the area immediately surrounding the perforation causing a displacement thereof from its desired position, a vacuum bell for restoring the softened glass and the element welded thereto to said desired position before the softened glass becomes set, said vacuum bell having an annular bottom surface of sufficient extent to engage the unsoftened glass, the softened glass surrounded thereby, and the element, means for moving said bell to bring its bottom surface into engagement with the unsoftened glass, and means for connecting a source of vacuum to said bell to pneumatically bring the softened glass and the element into engagement with its bottom surface.

2,637,944
APPARATUS FOR FORMING GLASSWARE
Charles F. Claughsey, West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application April 29, 1947, Serial No. 744,574
1 Claim. (Cl. 49—38)



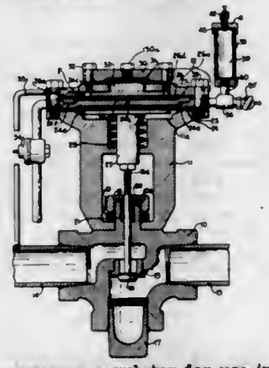
In a glassware pressing apparatus, a plurality of spaced parallel pressing plungers, individual fluid actuating motors for advancing and retracting the plungers, means for concurrently supplying operating pressure fluid to said motors to retract said plungers in a first direction, individual valves for supplying fluid to each of said motors to advance said plungers in the opposite direction and hold said plungers in pressing positions, said valves regulating the flow of pressure fluid to each motor, means for simultaneously actuating said valves to thereby concurrently initiate advancement of said plungers, separate pressure regulating valve means for individually regulating the pressure of the fluid supplied to advance and hold each of said plungers in its pressing position, and individual means for preselecting the adjustment of the pressure regulating valves.

2,637,945
FLUID PRESSURE CONTROL DEVICE
Asbury S. Parks, Houston, Tex.
Application March 21, 1949, Serial No. 82,630
8 Claims. (Cl. 50—10)



1. A pressure control device for controlling the pressure of a fluid within a pressure line including, a closed pressure chamber having a pressure fluid inlet and having a pressure line extending therefrom, a valve for controlling flow through the inlet into said chamber, pressure-responsive means exposed to the pressure within the chamber and co-acting with the inlet valve to permit opening and closing thereof, means for applying a variable force to the pressure-responsive means in opposition to the closed chamber pressure acting on said means whereby the inlet valve is opened and closed in accordance with variations in the applied force, and a vent valve means interposed between the force-applying means and the pressure responsive means and operable independently of the pressure-responsive means and actuated by the differential between the applied force and the pressure within the chamber for venting the chamber when said chamber pressure exceeds the applied force, whereby the increase or decrease of pressure within the chamber is directly proportional to the variation in applied force.

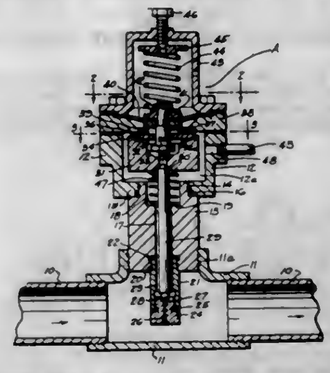
2,637,946
FLUID PRESSURE REGULATOR
Asbury S. Parks, Houston, Tex.
Application December 26, 1945, Serial No. 637,272
18 Claims. (Cl. 50—12)



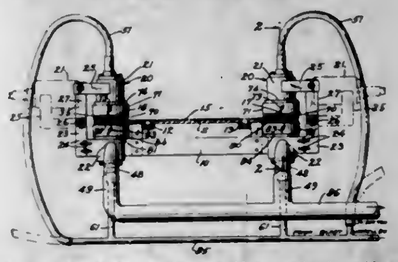
1. In a pressure regulator for use in conjunction with a flow control valve for an outlet from a source of fluid pressure, said regulator including a housing, a chamber within the housing, a diaphragm forming one wall of the chamber and connected to the flow control valve whereby flexure of the diaphragm actuates said valve, a passage between the chamber and a pilot pressure chamber and means for opening and closing said passage, said means being responsive to the pressure to be controlled, the improvement which resides in a bleeder communicating with the chamber and having two outlets, an adjustable valve means for controlling flow through one of the outlets and adapted to remain fixed on adjustment, and a movable closure means for the other outlet exposed to the pressure within the chamber and adapted for intermittent closing and opening in response to the pressure within said chamber.

2,637,947
PILOT REGULATOR
Asbury S. Parks, Houston, Tex.
Application July 6, 1948, Serial No. 37,183
9 Claims. (Cl. 50—26)

1. A pressure regulator apparatus including, a flow conductor for a high pressure gas stream, a body connected with the flow conductor, a reduced pressure line extending from the upper portion of the body, said body having a passage establishing communication between the interior of the high pressure flow conductor and the reduced-pressure line, a valve housing in the lower end of the passage and having its major portion extending downwardly into the flow conductor, a valve seat in said housing, a valve wholly within the housing and having a valve head also within the housing and adapted to engage said seat for controlling flow through the valve housing and through the passage which establishes communication between the flow conductor and the reduced-pressure line, and pressure-responsive means in the upper portion of the body and actuated in accordance with the pressure in the reduced-pressure line for controlling actuation of the valve, whereby a predetermined pressure may be maintained in the reduced-pressure line.



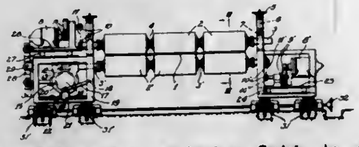
2,637,948
SURFACE TREATING APPARATUS
Lewis H. Bishop and John S. Finn, Burlingame, Calif., assignors, by mesne assignments, to William H. Mead, Oakland, Calif.
Application September 1, 1949, Serial No. 113,524
13 Claims. (Cl. 51—14)



13. An apparatus for continuously treating a marginal surface area adjacent an edge of a metal sheet while confining the treating material and preventing it from flying about, comprising a hollow housing having a slit opening through a portion of its walls, so that a metal sheet can be slid along in a straight line with one edge and its adjacent area passing through said slit into and out of said housing; a pair of opposed peripheral air-pervious brushes secured to said housing and enclosing said slit to permit

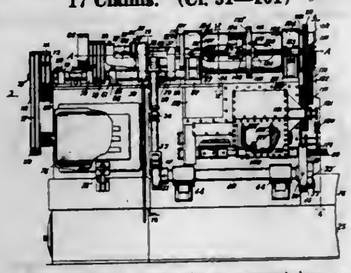
the transverse passage therethrough of said metal sheet and the maze-like passage of air inwardly therethrough while preventing the outward passage therethrough of the treating material; a pair of treating-material-impelling means in said housing facing each other on opposite sides of said slit opening; and suction means for removing spent material from said housing during operation of the device in a current of air.

2,637,949
PROCESS AND MACHINE FOR SURFACING GLASS
Lucien L. C. De Bay, Brussels, Belgium, assignor to Les Glaceries De La Sambre, Societe Anonyme, Anvelais, Belgium, a Belgian company
Application April 17, 1951, Serial No. 221,349
In Belgium April 28, 1950
11 Claims. (Cl. 51—40)



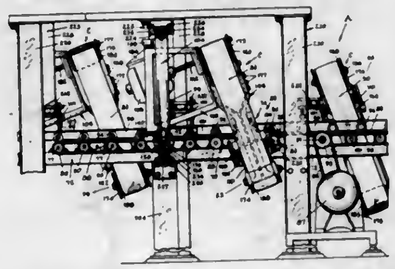
5. Apparatus for producing finish to glass sheets comprising rotary surfacing rollers in pairs between which the glass is fed, variable speed mechanism driving the rollers and maintaining the speed of the rollers engaging one face of the glass at a constant differential ratio with respect to the rollers engaging the other face of the glass, and means for imparting axial reciprocation in opposite directions to said rollers at opposite faces of the glass.

2,637,950
CONTOURING MACHINE
Arthur C. Norsworthy, Phoebus, George L. Meidinger, Hampton, William B. Mayo, Hilton Village, and Marion B. Seyffert, Hampton, Va., assignors to Technical Service Corporation, Newport News, Va., a corporation of Virginia
Application May 8, 1950, Serial No. 160,712
17 Claims. (Cl. 51—101)



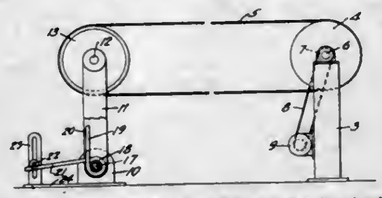
1. A contouring machine comprising a base, means to rotatably mount a template on said base, a blank stock feed barrel carried upon the means rotatably mounting said template, said feed barrel being in axial alignment with said template and rotating therewith, a follower for the template, a torque shaft rotatably mounted on said base, said follower being slidably mounted on said torque shaft, a rotary feed screw, means pivotally mounting said feed screw for rotation about the torque shaft, said feed screw being threadably connected to said follower for longitudinally moving said follower the length of said torque shaft, a rotary cutter, means pivotally mounting said cutter on said base, and linkage means connecting the rotary cutter head to the torque shaft for moving the cutter in a pattern similar to the template.

2,637,951
SHEET EDGING APPARATUS
Gerald White, Rossford, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application May 4, 1950, Serial No. 159,941
11 Claims. (Cl. 51—140)



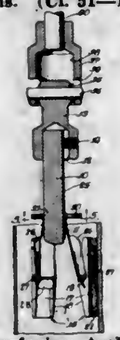
1. In apparatus for treating the edges of sheets or plates, means for conveying a sheet to be edge treated along a predetermined path, a flexible endless belt having a normally flat straight working run provided with an abrasive surface and positioned in and at one side of the path of travel of said sheet with the length of said run lying in a plane at an angle to the plane of said path of travel and the width of said run lying normally diagonally of said path and with its abrasive surface at an acute angle to said side of said path in the plane thereof, a pair of spaced pulleys over which said belt is trained to support the same, and means for rotating one of said pulleys to drive the belt.

2,637,952
BACK-STAND GRINDER
Ralph W. Reed, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application November 14, 1949, Serial No. 127,965
2 Claims. (Cl. 51—148)



1. In a grinding and polishing machine including a front stand having a motor-driven wheel and a coated abrasive belt trained thereon, a back-stand comprising a base member having spaced vertical supports, a yoke with its arms pivotally mounted on the supports of said base member, an arbor threaded in the upper portion of said yoke, an idler wheel, adapted to support one end of a coated abrasive belt, journalled on one end of said arbor, a track-adjustment member fixedly mounted upon the other end of said arbor, and manually rotatable to change the lateral position of said idler wheel, a locking member movably carried on the upper portion of the yoke and adapted to bear against the arbor to retain it in position, a torsion spring device mounted on the supports of said base member and between the arms of said yoke and secured thereto and yieldably urging said idler wheel away from said driven-wheel, and means for manually adjusting the tension on said torsion spring.

2,637,953
CYLINDER SURFACING TOOL
Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois
Application April 17, 1950, Serial No. 156,474
9 Claims. (Cl. 51—184.2)



1. A cylinder surfacing tool comprising an elongate rigid body, at least three flat elongate spring members extending along and generally in the direction of the longitudinal axis of the body, means securing said spring members, independently of each other, at one end to said body in substantially equally spaced arrangement thereabout, the remaining portions of the spring members being disconnected from said body and from each other and being thereby movable independently of each other, a plurality of surfacing units each having a rigid, elongate body and an abrasive surface which is straight in a longitudinal direction and arcuate in a transverse direction, and means pivotally connecting said surfacing units each to one of said spring members adjacent the end of the latter for pivotal rocking movement about an axis transversely of said spring member and the corresponding surfacing unit and approximately at the longitudinal midpoints of the latter.

2,637,954
ROTATABLE HONE
Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois
Application March 3, 1949, Serial No. 79,394
18 Claims. (Cl. 51—184.3)



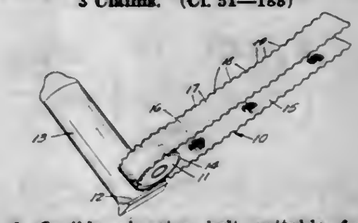
1. A honing tool adapted to be rotated in a predetermined direction comprising a body member having a plurality of circumferentially spaced closed-bottom slots each of which is intersected by the tool radius along a line parallel with the slot sides, said slots having similarly arranged generally diagonally disposed bottom walls extending inwardly and forwardly from one side wall thereof with respect to direction of rotation of the tool, abrasive carriers mounted for expansion and contraction in and shaped complementally to said slots, and a separate carrier expanding cam member mounted in each of said slots between and in operative engagement with the carrier and the slot bottom and adjustable longitudinally therein in one direction to expand said carrier and in the opposite direction to permit it to contract.

2,637,955
ABRASIVE RIBBON HOLDER
John Batura, Pawtucket, R. I.
Application February 15, 1952, Serial No. 271,819
3 Claims. (Cl. 51—187)



1. A device of the character described comprising an elongated body, a forwardly projecting nose of sheet material formed integrally with said body, a latch member formed integrally with the rear end of said body, a handle pivoted to said body adjacent its juncture with said nose, a latch member formed integrally with the free end of said handle and adapted to coact with the latch member of said body to interconnect said body and said handle and to hold therebetween one end of a flexible strip of abrasive material, said body having a transverse slot adjacent the juncture between said body and said nose for the passage therethrough of said strip, said strip adapted to be extended over both sides of said nose, and a flat spring affixed to the underside of the forward portion of said handle and extending downwardly and rearwardly whereby its free end may engage and tension the other end of said strip.

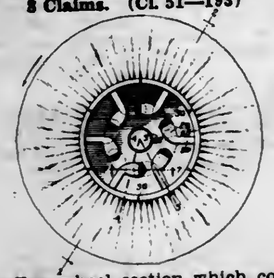
2,637,956
COATED ABRASIVE BELT
Walter G. Nuessle, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application March 28, 1952, Serial No. 279,037
3 Claims. (Cl. 51—188)



1. A flexible abrasive belt suitable for the abrading of curved surfaces comprising a flexible, dimensionally stable backing, an adhesive coating on one surface of said backing, and a multiplicity of abrasive particles embedded in said adhesive coating, at least one edge of said belt being provided with a series of evenly shaped and spaced indentations, the intervening ridges being coated on one surface thereof with abrasive particles and being spaced in such manner

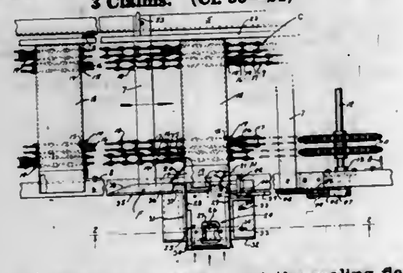
that they do not overlap each other when bent to the work.

2,637,957
BUFFING WHEEL
Mike Kanter, Passaic, N. J., assignor to United Buff Products Corporation, Passaic, N. J., a corporation of New Jersey
Application April 29, 1949, Serial No. 90,421
8 Claims. (Cl. 51—193)



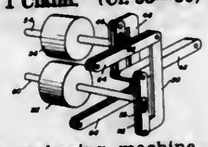
1. A buffing wheel section which comprises a pair of disk-like elements adapted to be mounted on a rotatable shaft in face to face contact with each other, peripheral flanges on said disk-like elements, toothed side walls on said flanges, an annulus of buffing fabric with a gathered inner edge formed of folded layers of material and disposed along the inner edge in adjacent embracing relation to the flanges between the side walls thereof, the side walls of the flanges adapted to be pressed against the sides of the annulus to engage the teeth thereon with the fabric, the disk-like elements provided with air channels between the center thereof and their peripheries having a circumferential passage and a connecting radial passage opening into the space between the peripheral flanges.

2,637,958
FLAP OPENER FOR CARTONS
Arthur W. Lippmann and Edmund E. Lippmann, Milwaukee, Wis., assignors to Lippmann Engineering Works, Milwaukee, Wis., a partnership
Application July 31, 1951, Serial No. 239,528
3 Claims. (Cl. 53—24)



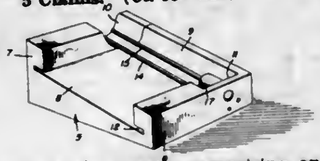
1. A device for spreading out the sealing flaps of cartons, as the cartons reach a filling station comprising an endless conveyor traveling past a filling station, means on the conveyor for supporting cartons with the flaps of the cartons at one side of the conveyor projecting outwardly from the bodies of the cartons, a filling throat at the filling station disposed at one side of the conveyor and transversely thereof, a shoe projecting laterally from one side of the throat extending longitudinally of the conveyor and including side flap spreading rails inclining toward one another and disposed in the path of the flaps during movement of the conveyor, an inclining end flap spreading plate connecting the outer ends of the rails, a movable finger for spreading out a carton end flap, means for operating said finger including a reciprocating rod carried by the finger, spring means urging the rod and the finger in one direction away from a carton, and a conveyor actuated crank periodically actuating the rod toward a carton against the tension of said spring means.

2,637,959
ARTICLE PACKAGING MACHINE
John Albert Dreher, Trucksville, Pa.
Application March 14, 1951, Serial No. 215,474
1 Claim. (Cl. 53—86)



An article packaging machine comprising a frame including a table top, a vertically reciprocating heating unit on the frame for sealing a pair of paper sheets together, a feeding mechanism on the frame for gripping the marginal edges of the sheets and thereby moving the sheets along the table top sealed by the heating unit, a vertically reciprocating cutter on the frame for cutting paper sealed by said heating unit, and a conveyor at one end of the table top for dispensing paper cut by said cutter, said feeding mechanism being located between said heating unit and said cutter, said feeding mechanism including inner and outer pairs of bell cranks pivoted to said frame, a pair of sliding bars, upper links connecting the inner bell cranks to said bars, lower links connecting the outer bell cranks to said bars, upper and lower rods slidably carried by said upper and lower links respectively, and rollers on each rod.

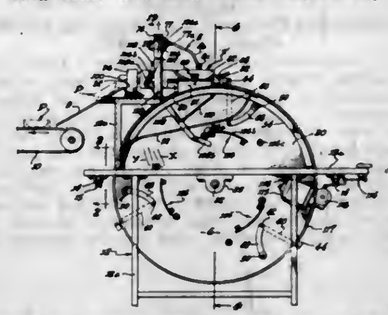
2,637,960
COIN WRAPPING DEVICE
Robert F. Powers, Warren, Ark.
Application December 17, 1951, Serial No. 261,997
5 Claims. (Cl. 53—114)



4. A coin wrapping device comprising an inclined tray, said tray having a bottom, upper and lower side walls, a rear wall and an open front, said side walls having undercut grooves therein at their junction to the bottom of the tray for guidingly receiving the edges of a coin wrapper, a coin trough adjacent and parallel to the rear wall of the tray for receiving coins prior to wrapping, said undercut grooves opening into said coin trough.

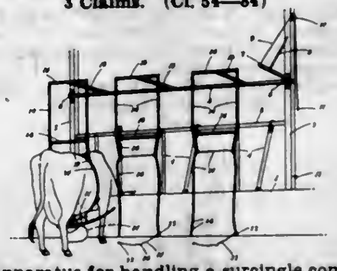
2,637,961
PACKAGE WRAPPING APPARATUS
James M. Sutton, Long Beach, Calif.
Application November 1, 1949, Serial No. 124,880
17 Claims. (Cl. 53—149)

1. In apparatus for closing the wrapper of a partly wrapped rectangular package, the wrapper, when the package is delivered to the apparatus, extending transversely about the package and projecting beyond the ends thereof: a movable carrier including a pair of opposed rotary members, frame supporting said members, opposed flights on said members, for supporting the package for sideward advance in the direction of a pair of the sides, arms on said members for engaging the packages on the flights, means on said arms and said frame respectively for



folding those portions of wrapper projecting from the sides positioned transversely of the direction of advance against the package ends; means on said frame for thereafter successively folding those portions of the wrapper projecting from the first mentioned pair of sides against the package ends; means for removing the package from said carrier and for advancing it independently thereof; and means for causing said folded portions to adhere.

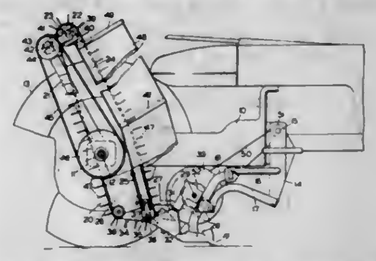
2,637,962
SURCINGLE HANDLING APPARATUS
Robert E. Reeve, Tracy, Calif.
Application September 25, 1951, Serial No. 248,128
3 Claims. (Cl. 54—84)



1. Apparatus for handling a surcingle comprising, adjacent and milking station, a support, a cross rod above such station, means mounting the cross rod in connection with the support for up-and-down motion above a cow at said station, suspension elements depending from the cross rod in transversely spaced relation, and loops on the lower ends of the suspension elements through which the surcingle slidably extends intermediate its ends whereby the surcingle is suspended in inverted U-shape.

2,637,963
BEET HARVESTER
James Morkoski, Memphis, Tenn., assignor to International Harvester Company, a corporation of New Jersey
Application June 24, 1950, Serial No. 170,080
6 Claims. (Cl. 55—106)

1. In a power operated traveling beet harvester, the combination with a pair of laterally spaced digger blades for lifting the beets from the soil, of a pair of laterally spaced conical rollers arranged rearwardly of the digger blades to receive therebetween the beets lifted by the digger blades and rotatably mounted on rearwardly inclined axes, means for driving the rollers in opposite directions to move the beets rearwardly, a conveyor extending upwardly and having its lower



portion arranged between the rollers, spikes mounted on the conveyor to impale the beets as they are delivered thereto by the rollers, a wheel having a flexible tire rotatably mounted above and between the conical rollers and the digger blades in a position to engage the beets as they are lifted and delivered to the rollers, and means for driving the wheel in a direction to urge the beets toward the conveyor.

2,637,964
BEET HARVESTER HAVING BEET CLEANING MEANS
John W. Orendorff, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 22, 1947, Serial No. 781,449
5 Claims. (Cl. 55—107)

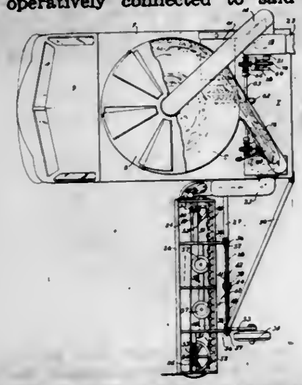


1. In a tractor mounted harvester for beets and the like wherein cutting mechanism for severing the foliage from the beets and digging mechanism for removing the beets from the soil are provided, a conveyor mounted on the side of the tractor rearwardly of the digging mechanism to receive the beets therefrom and convey them rearwardly, and means serving as a pendulous, flexible curtain associated with said conveyor transversely thereof, said curtain terminating above and out of engagement with the conveyor and extending vertically in the path of the beets to engage and retard the latter and remove dirt adhering thereto.

2,637,965
APPARATUS FOR REAPING SEED CROPS
Robert D. Simpson and Elwin V. Gordon, San Leandro, and Frank Cardoza, Hayward, Calif., assignors to Farm Production Engineers, Inc., Hayward, Calif., a corporation of California
Application March 24, 1950, Serial No. 151,718
3 Claims. (Cl. 56—20)

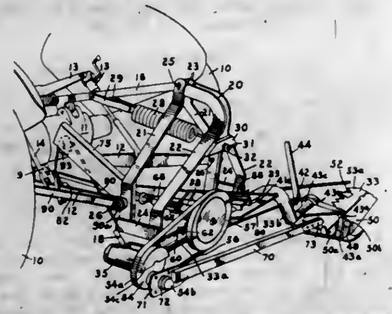
1. A grain harvesting, threshing and separat-

ing device comprising a mobile frame having mounted thereon a grain cutting device, pneumatic conduit means associated with said cutting means, an air impelling and grain threshing means operatively connected to said conduit



means, pneumatic separator means operatively connected to said impelling and threshing means, a grain receiver and a chaff discharge conduit operatively connected to said separator, and a pneumatic impelling means in said discharge conduit.

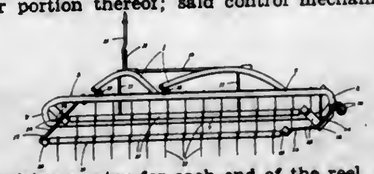
2,637,966
TRACTOR SUPPORT FOR MOWERS
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application April 2, 1949, Serial No. 85,214
15 Claims. (Cl. 56—25)



1. A mower comprising a main frame adapted for securement to a vehicle, a cutter bar frame, stationary teeth means on said cutter bar frame, a toothed cutter bar movably mounted on said cutter bar frame and cooperating with said stationary teeth means to produce a cutting action, means carried by said main frame and connected to said cutter bar for reciprocating said cutter bar relative to said cutter bar frame, means for securing said cutter bar frame to said main frame comprising a pair of nested cylindrical members respectively secured to said main frame and said cutter bar frame and disposed in substantial parallelism with said cutter bar, means for securing said nested cylindrical members in any selected one of a plurality of angularly displaced positions, thereby selectively adjusting the tilt of said cutter bar frame, and spacer means cooperating with said securing means for selectively shifting the relative axial position of said nested cylindrical members, thereby adjusting the register of said cutter bar teeth with said stationary teeth means.

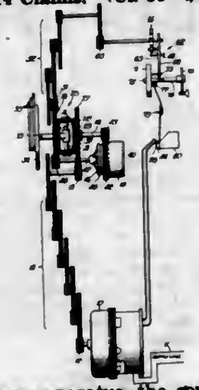
2,637,967
SIDE-DELIVERY RAKE
James M. McCandless and Levi Bents, Chico, Calif.
Application October 1, 1951, Serial No. 249,138
1 Claim. (Cl. 56—377)

In a side delivery rake embodying a frame, and a driven, frame supported reel which extends diagonally of the direction of travel and includes longitudinal, circumferentially spaced rods having rows of tines depending therefrom; control mechanism between the ends of the reel and the frame arranged so that the driven reel turns about a horizontal axis with the tines remaining dependent at all times and sweeping laterally toward the discharge end of the reel when in the lower portion thereof; said control mechanism



comprising a rotor for each end of the reel, the axes of the rotors being parallel and canted both laterally of the direction of travel and relative to a horizontal plane transversely of the rake means journaling the rotors in connection with the frame for rotation about said axes, and means journaling the rods at the ends in connection with adjacent rotors for relative rotation about separate axes parallel to said first named axes.

2,637,968
SYNCHRONOUS MOTOR CARRYOVER CLOCK
Clarence J. Armstrong, Springfield, Ill., assignor to Sangamo Electric Company, Springfield, Ill., a corporation of Illinois
Application May 17, 1947, Serial No. 748,807
14 Claims. (Cl. 58—26)



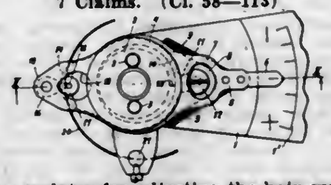
1. In timing apparatus, the combination of a time responsive member adapted to be driven at a timed rate, electrically energized means for driving said time responsive member, spring carry-over mechanism for driving said time responsive member in the event of failure of the current supply to said electrically energized means, means for transmitting winding torque from said electrically energized means to said spring carry-over mechanism and means thermally responsive to the presence of said current supply for controlling the operation of said spring carry-over mechanism.

2,637,969
GEOGRAPHICAL CLOCK
Millard L. Beyer, Hempstead, N. Y.
Application November 15, 1950, Serial No. 195,867
7 Claims. (Cl. 58—43)



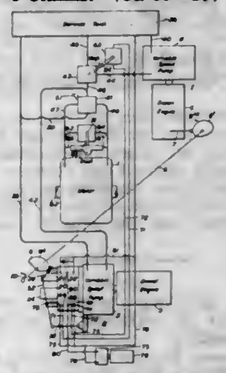
1. In a clock of the character described, a base member, a clock motor supported thereby, a hollow transparent cylinder supported for rotation about a vertical axis by the clock motor, a plurality of vertical supporting members secured to the base in spaced relationship extending beyond the upper end of the cylinder, a flat ring overlying the top of the cylinder fastened to the upper portions of the supporting members, a lamp supported by the ring depending downward so as to illuminate the cylinder, and a cover member having a depending edge portion overlapping the edge of the ring.

2,637,970
INDEX REGULATOR SET
Hans Kocher, Cortebert, Switzerland, assignor to Cortébert Watch Co., Cortebert, Switzerland, a corporation of Switzerland
Application November 4, 1949, Serial No. 125,606
In Switzerland November 6, 1948
7 Claims. (Cl. 58—113)



1. A regulator for adjusting the hair spring of the balance of timepieces, comprising a regulator lever member, a ring member disposed adjacent to said lever member and adapted to rotate substantially about the same axis as said lever member, clamp means for clamping the hair spring, said clamp means comprising two jaw members, one of said jaw members being connected with said lever member, the other jaw member being connected with said ring member, said lever member and said ring member being relatively movable transversely to their axis of rotation, said lever member and said ring member having surface portions, the surface portion of one member slidably engaging the surface portion of the other member and affording relative movement of said lever and ring members upon rotation of said lever member and causing separation of said jaw members for releasing the hair spring, stationary means frictionally engaging said ring member and preventing rotation thereof during said relative movement and affording rotation of said ring member upon continued rotation of the lever member for displacing the jaw member connected with said ring member along the hair spring, and resilient means connected with said lever and ring members and pulling same together in opposite direction to said relative movement for closing said jaw members on the hair spring upon release of said regulator member.

2,637,971
HYDRAULIC POWER INSTALLATION
George Frederick Jones, Aldwych, London, England, assignor to Commercial Patents Limited, London, England, a British company
Application April 16, 1951, Serial No. 221,172
In Great Britain April 25, 1950
8 Claims. (Cl. 60—19)

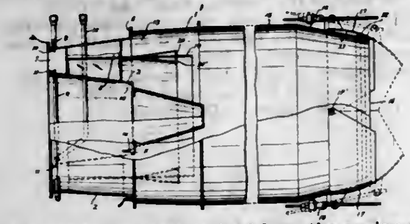


1. A hydraulic power installation comprising a first pump of the type giving a variable volumetric output when driven at constant speed and a constant speed compression-ignition engine for driving same, a second pump capable of giving a volumetric output varying with speed and a variable speed compression ignition engine for driving same, an hydraulic motor, the maximum total rated power output as pressure fluid of the pumps being substantially equal to the rated power capacity of the motor, a hydraulic flow connection between said first pump and said motor and a hydraulic flow connection between said second pump and said motor, a hydraulic idling circuit, a power valve, said power valve being connected to said hydraulic flow connection between said second pump and said motor and to said idling circuit and being operable to connect said hydraulic flow connection either to said motor or to said hydraulic idling circuit, and hand-operated control gear comprising means for regulating the output of said first pump, means for operating said power valve and means for regulating said engine driving said second pump, said hand-operated control gear being adapted to bring the first pump up to maximum output, then to operate said power valve to connect said hydraulic flow connection from said second pump to said motor and then to speed up said second pump, and conversely, to slow down the second pump, operate the power valve to connect said hydraulic flow connection from said second pump to said idling circuit and then to reduce the output of said first pump.

2,637,972
AFTERBURNER FOR TURBOJET ENGINES AND THE LIKE
Richard G. Laucher, Kirkwood, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application April 9, 1948, Serial No. 19,957
13 Claims. (Cl. 60—35.6)

12. An afterburner for a reaction type engine

comprising a tubular member securable to the exhaust end of the engine, the end secured to the engine having an offset therein for forming an annular internal flameholder, a conical member mounted in the end of the tubular member secured to the engine and providing an annular



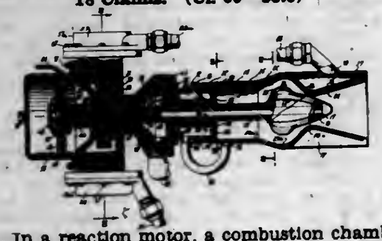
passageway for gases derived from the engine and a diffusing chamber in the engine, said conical member having an offset substantially intermediate the length thereof for forming a circumferential flameholder thereon, means for introducing fuel into said passageway; and means for initially igniting fuel introduced into said passageway.

2,637,973

ROCKET ENGINE HAVING TURBINE LOCATED IN NOZZLE FOR DRIVING AUXILIARIES

Lovell Lawrence, Jr., Denville, N. J., assignor to Reaction Motors, Inc., Dover, N. J., a corporation of New Jersey

Application April 1, 1949, Serial No. 84,919
18 Claims. (Cl. 60—35.6)



1. In a reaction motor, a combustion chamber, a head and an exhaust nozzle at opposite ends of said chamber, and a nozzle restricting member, having vanes thereon, means for supporting said member adjacent said nozzle for movement along the longitudinal central axis of said chamber and nozzle and for rotation on said axis, a means operated upon rotation of said nozzle restricting member, said rotation being brought about by the action of the rush of hot gases of combustion against the vanes on said restricting member.
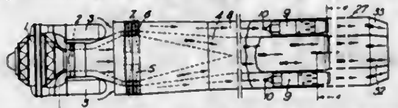
2,637,974

COMBUSTION APPARATUS FOR AN AIR STREAM AND PROPULSIVE SYSTEM

Matthew Lewis Nathan, Godalming, England, assignor to Power Jets (Research & Development) Limited, London, England

Application September 5, 1945, Serial No. 614,503
In Great Britain March 16, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 16, 1964
11 Claims. (Cl. 60—35.6)

1. Combustion apparatus for burning fuel in an air-stream comprising a combustion chamber in the form of an annular duct for said stream and a plurality of flame tubes arranged as a circular series within said duct with their lengths substantially parallel to the axis of the duct, said flame tubes being made up of partially obturated upstream ends apertured to admit primary air, perforated parts of circular cross-section extending from said ends, of such diameter that together they occupy almost the full width and full mean



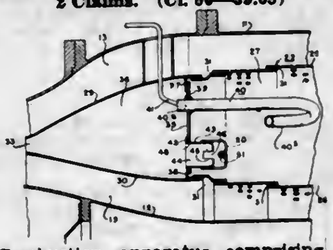
circumference of said duct and downstream outlet ends discharging into said annular duct, said outlet ends being of sector-shaped section into which said circular parts smoothly merge, all the sector-shaped outlets together occupying substantially a complete annular section of said duct.

2,637,975

AIR DISPERSION INLET MEANS FOR COMBUSTION APPARATUS

Floyd T. Hague, Drexel Hill, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 3, 1950, Serial No. 165,827
2 Claims. (Cl. 60—39.65)



1. Combustion apparatus comprising casing structure forming a passageway through which air under pressure is propelled at high velocity, burner shell structure interposed in said passageway and having a combustion chamber of short length and lateral apertures connecting said passageway to said chamber for supplying secondary air thereto, fuel supply means mounted in the upstream end of said shell for introducing fluid fuel into said combustion chamber, a primary air inlet tube mounted in an upstream wall of said burner shell structure adjacent said fuel supply means, said tube having an axial-flow inlet opening at the upstream end thereof communicating with said passageway in advance of said shell structure, said tube having a discharge slot disposed near to the point of fuel discharge in said combustion chamber, a support element carried by said tube and straddling said slot, and a rod member secured to said support element in parallel spaced relation to said slot for effecting turbulence of primary air issuing therethrough, whereby rapid turbulent mixing of fuel and air is facilitated for promoting high flame velocity and efficient combustion in a zone of short length.

2,637,976

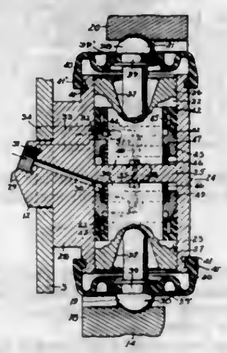
ACTUATOR MOTOR DEVICE FOR HYDRAULIC BRAKES

Claude R. Myers, Galien, Lester F. Dasse, St. Joseph, and John Bassett, Benton Harbor, Mich., assignors, by mesne assignments, to Lambert Brake Corporation, St. Joseph, Mich., a corporation of Michigan

Application August 7, 1951, Serial No. 240,642
18 Claims. (Cl. 60—54.6)

1. A fluid pressure responsive actuator device

of the class described, comprising a body having a piston chamber therein, and a piston disposed within said chamber, said body being provided with a pressure fluid inlet-outlet opening and also with a bleed opening, both of said openings communicating with said chamber, and fluid-directing means within said chamber for directing the pressure fluid in a tortuous path through said chamber and around said piston to the bleed opening aforesaid when a pressure fluid is forced through the device, said fluid-directing means comprising an annular member encircling said piston and having fluid passages therein.



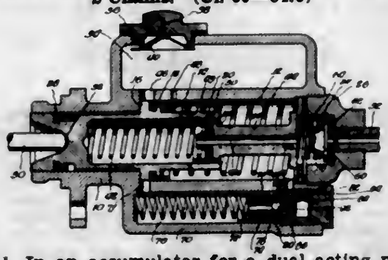
15. A fluid-directing member of the class described, comprising an annular member having an inner periphery and an outer periphery, said inner periphery being provided with a shoulder having a set of fluid passages therethrough, and said outer periphery having a relatively straight wall and an angularly disposed wall, each wall having a set of fluid passages therethrough.

2,637,977

VALVE CONTROLLED BRAKE FLUID ACCUMULATOR FOR MASTER CYLINDERS

Alfred B. Seppmann, Mankato, Minn.

Application October 14, 1947, Serial No. 779,687
2 Claims. (Cl. 60—54.6)



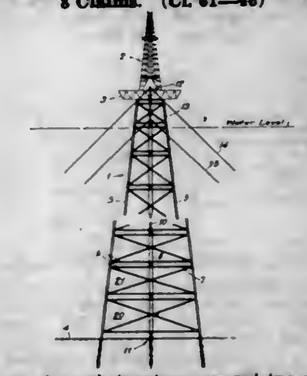
1. In an accumulator for a dual acting master cylinder having high and low pressure cylinders and a reservoir, an accumulator cylinder, a seat therein, an accumulator piston seated against said seat by spring pressure and capable of accumulating and retaining brake fluid entering said accumulator cylinder through said seat in all positions relative to said cylinder after said accumulator piston is unseated from said seat, the end of said accumulator cylinder adjacent said seat being in communication with that portion of the low pressure cylinder which is on the discharge side of the low pressure piston therein and the spring end thereof being in communication with the reservoir, and a valve of the check type carried by said accumulator piston and opening toward the low pressure cylinder for permitting flow of brake fluid from the reservoir through said accumulator on the discharge side of the low pressure piston therein to said master cylinder during a pumping operation.

2,637,978

MARINE DRILLING

John R. Evans, Lloyd E. Elkins, and Louis H. Klinsing, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application April 25, 1946, Serial No. 664,891
3 Claims. (Cl. 61—46)



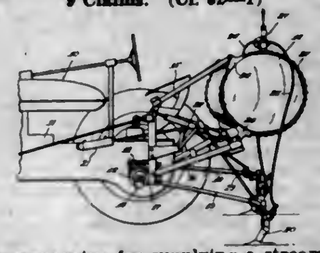
1. A marine substructure comprising a vertical column, means for anchoring said vertical column in the marine floor, means supporting said column against lateral movement or sway, and a frustro-pyramidal skeleton structure including supporting uprights and a centrally disposed axial tube disposed around said vertical column, said tube and said uprights being held in rigid spaced relation by braces.

2,637,979

DISPENSING TANK AND VALVE STRUCTURE

Stuart D. Pool, Moline, and William F. Collins, Westmont, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application December 30, 1949, Serial No. 135,594
9 Claims. (Cl. 62—1)



1. In apparatus for supplying a stream of anhydrous ammonia and like highly volatile treating liquids from a supply tank to the soil as fertilizer at a substantially constant rate at a location remote from the tank, an opening formed in the upper wall of the tank, a differential pressure regulating valve at the top of the tank, a flexible diaphragm dividing the valve into a back pressure

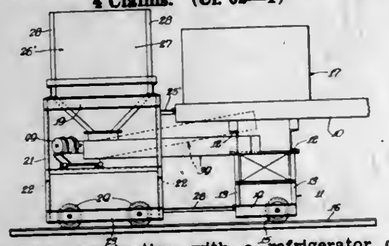
compartment and a fluid discharge compartment, a pipe section integral with the valve and seated in said opening to receive fluid directed against one side of said diaphragm, a tubular member of lesser diameter than the pipe section communicating with the fluid discharge compartment of the valve, said tubular member extending vertically downwardly through said pipe section to a location adjacent the bottom of the tank, whereby the fluid fed to the pressure regulating valve outlets is in a substantially uniform liquid state, and means on opposite sides of the diaphragm for connecting a pressure differential gauge to the valve.

2,637,980

SALT ATTACHMENT FOR ICING MACHINES

Harold O. McLain, Highland Park, Ill.

Application August 24, 1950, Serial No. 181,238
4 Claims. (Cl. 62—1)



4. The combination with a refrigerator car icing machine having an ice crushing mechanism, a laterally projecting chute for discharging crushed ice laterally from the crushing mechanism, of a salt supplying trailer attached to and propelled by the icing machine, said trailer including a frame, a salt hopper mounted on said frame, a salt conveyor trough pivoted to said frame at a point below the hopper and having its outer end positioned over said chute, a screw conveyor journaled in said trough, and a motor supported on the pivot of said trough and operatively connected to said screw conveyor for operatively driving the same.

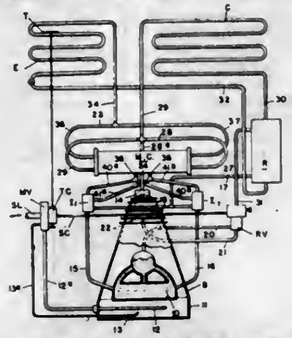
2,637,981

REFRIGERATION MACHINE

Carl D. Russell, Muskogee, Okla., assignor of five per cent to G. G. Pool, Muskogee, Okla.

Application December 30, 1948, Serial No. 68,141
19 Claims. (Cl. 62—4)

1. In refrigerating apparatus employing a compressor-condenser-expander circuit and utilizing high-pressure vaporized refrigerant as the motive fluid, a fluid motor-compressor-pump unit comprising a cylinder having end closures and a transverse partition subdividing its interior space, pistons mounted for reciprocatory travel in the cylinder end-spaces, a piston rod having sliding bearing in the partition and interconnecting said pistons for movement in unison, means for distributing high-pressure vaporized refrigerant through the partition alternately to the cylinder inner-end spaces thereby to motivate said pistons alternately throughout their compression strokes, means for exhausting the cylinder inner-end space not then being supplied with the vaporized refrigerant through the partition, whereby the piston operating in said space is actuated throughout its combined pump and exhaust stroke by the piston moving throughout its compression stroke, valved conduits connected to the cylinder end-closures for admitting low pressure vaporized refrigerant into the cylinder outer-end spaces under the suction effect of the pistons as the latter move throughout their exhaust stroke, and valved conduits connected to the cylinder end-closures for delivering the refrigerant compressed by the pistons as the latter are motivated throughout their compression strokes to the condenser.

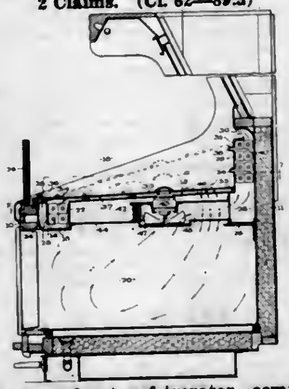


2,637,982

OPEN FRONT REFRIGERATED CABINET

Paul H. Brinkoeter, San Antonio, Tex., assignor to Ed Friedrich, Inc., San Antonio, Tex., a corporation of Texas

Application August 8, 1951, Serial No. 240,833
2 Claims. (Cl. 62—89.5)



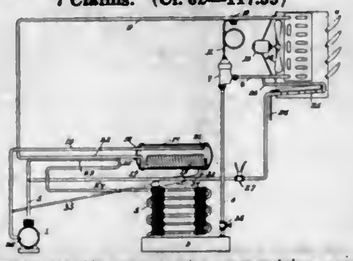
1. An open front refrigerator, comprising a front wall, a back wall and end walls, an air pressure duct disposed along said back wall and provided with a front panel, a partition extending from said panel to said front wall to provide a food compartment and a storage compartment on opposite sides thereof, a trough formed in said partition along said front wall longitudinally thereof, refrigerating coils in said trough, an outlet duct disposed between said front wall and said refrigerating coils providing an air outlet passage from said food compartment to said refrigerating coils, a removable shelf mounted above said partition and extending over said refrigerating coils and supported by said front wall and said front panel of said air pressure duct providing a suction chamber between said shelf and said partition, said suction chamber having communication with said storage chamber adjacent said front panel of said air pressure duct, refrigerating coils in said air pressure duct, said air pressure duct having communication with said food compartment, a fan housing mounted beneath said partition and connected to said air pressure duct, said housing having an opening therein to provide communication with said storage compartment, and a fan in said fan housing for circulating air from said storage compartment to said air pressure duct through said fan housing and over said refrigerating coils in said air pressure duct to said food compartment and through said outlet duct and refrigerating coils associated therewith to said suction chamber and into said storage compartment.

2,637,983

REFRIGERATING APPARATUS WITH HOT GAS DEFROSTING MEANS

Hyman Malkoff and Otto J. Nussbaum, Trenton, N. J., assignors to Kramer Trenton Company, Trenton, N. J., a corporation of New Jersey

Application August 22, 1950, Serial No. 180,774
7 Claims. (Cl. 62—117.55)



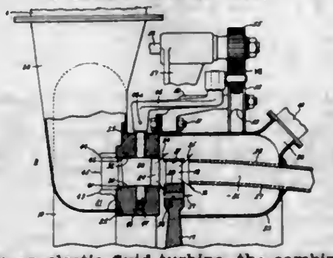
1. Refrigerating apparatus comprising, a compressor, a condenser, an evaporator, a conduit connecting the discharge of the compressor with the condenser and with the evaporator for conducting hot gas to the inlet of the condenser during refrigerating periods and to the inlet of the evaporator during defrosting periods, a suction conduit connecting the outlet of the evaporator with the inlet of the compressor for returning refrigerant from the former to the latter, a casing positioned in the said suction conduit, and a fusible heat holding substance within said casing, the parts being so constructed and arranged that the refrigerant flowing through the suction line empties into the casing and surrounds the said heat holding substance as a fluid in heat exchange relation therewith while passing through said casing.

2,637,984

TURBINE

David J. Bloomberg, Newton, Mass., assignor to General Electric Company, a corporation of New York

Application July 26, 1950, Serial No. 175,950
6 Claims. (Cl. 62—123)



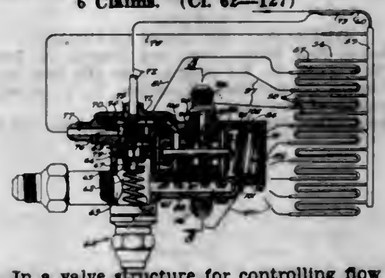
1. In an elastic fluid turbine, the combination comprising nozzle means forming an annular fluid passage, a rotor carrying a row of buckets adjacent to and at the downstream side of the nozzle means, and walls defining an annular exhaust passage having an end portion adjacent to and at the downstream side of said row of buckets, said nozzle means and said row of buckets and said bucket row and said end portion being disposed respectively in negative overlap relation.

2,637,985

MULTIPORT VALVE

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California

Application January 22, 1951, Serial No. 207,222
6 Claims. (Cl. 62—127)



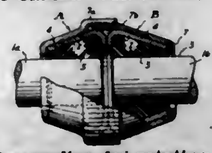
1. In a valve structure for controlling flow of refrigerant to an evaporator of the multipass type; a casing having an inlet for liquid refrigerant and an outlet adapted to be connected to one of the passes of said evaporator, said casing including means defining a space in constant communication with said outlet; valve means for controlling flow of refrigerant from said inlet to said outlet and said space; means mounted on said casing for actuating said valve means; said casing also including means defining a chamber and means fluidly connecting the chamber to said inlet, there being a plurality of separate outlet ports leading from said chamber for connection respectively to the individual remaining ones of said evaporator passes; a movable closure cooperable with said ports and adapted in its movements to uncover and to cover all of said ports simultaneously; and means operated by the pressure of refrigerant in said space for actuating said closure so as to effect uncovering of said ports when said valve means is opened.

2,637,986

FLEXIBLE SHAFT COUPLING

Robert Iredell, Jr., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Original application December 11, 1944, Serial No. 567,585, now Patent No. 2,562,359, dated July 31, 1951. Divided and this application January 10, 1951, Serial No. 205,300
3 Claims. (Cl. 64—11)



1. A flexible coupling for rotating shafts comprising an annular resilient member disposed over an end portion of one of said shafts having

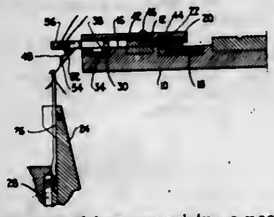
substantially greater thickness adjacent said end portion, an outer member of rigid material having longitudinally tapered annular inner surface portions substantially concentric with the outer surface of said shaft and disposed over and bearing against an outer surface of said annular resilient member, portions of said tapered annular inner surface of said outer member bearing strongly against said outer surface of said resilient member and being of smaller diameter than that of corresponding contacting portions of said resilient member in its free state, whereby said resilient member is radially compressed between said shaft and said outer member, and a connector for connecting said outer member in driving relation to the other shaft.

2,637,987
OVERLOAD RELEASE COUPLING
Charles Hill, Reno, Nev., and Charles K. Johns, New York, N. Y., assignors to Hil-Jon Safety Crown Corporation, Brooklyn, N. Y., a corporation of New York
Application February 18, 1947, Serial No. 729,300
2 Claims. (Cl. 64—29)



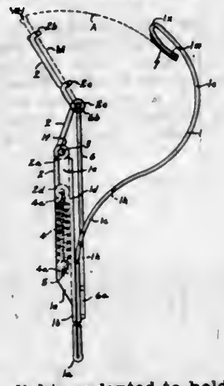
1. In a spring winding device, a hollow winding crown shaped to provide an annular ledge about the inner periphery thereof, a cylindrical well in said ledge opening at one side into the hollow interior of said crown, said ledge presenting a vertical wall, a sealing plate supported on said ledge and secured thereto by a peened-over edge of said crown, a winding stem extending through said sealing plate and having a disc portion associated therewith and disposed in the hollow interior of said crown, the peripheral edge of said disc being notched and being spaced from the vertical wall of said ledge to provide a spring space, a strip spring having looped ends, one of which is disposed in said well to removably position the strip spring in said space and the other of which engages the notched edge of said disc, and said spring being shaped to provide a wall abutting support arm portion and a free yield arm portion for yieldably connecting the crown and the winding stem disc.

2,637,988
KNITTING MACHINE
Max B. Striar, Worcester, Mass.
Application June 27, 1949, Serial No. 101,561
12 Claims. (Cl. 66—135)



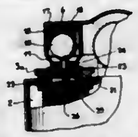
1. A knitting machine comprising a needle support, a needle cam, needles reciprocated by the cam, and means to travel the cam past the needles, a base having slots therein, a thread guiding jack in each slot, a jack cam to reciprocate the jacks, and means to flex the jacks past each corresponding needle from one side to the other thereof as the needles rise to wrap the thread carried by the jacks about the individual needles, said jack flexing means comprising slots at an angle to the first-named slots, and means on each jack guided by engagement with a second-named slot.

2,637,989
OVEN LIGHTER
Ruth A. Biggs, Elmira, N. Y.
Application March 27, 1951, Serial No. 217,813
3 Claims. (Cl. 67—6)



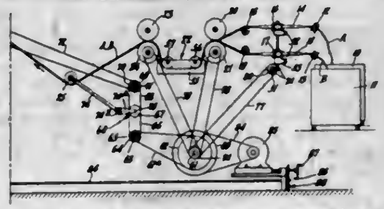
1. An oven lighter adapted to hold and ignite a kitchen match having a striking head, comprising a frame bifurcated at its outer end to provide two legs, and having an inner end serving as a handle; an arm pivotally mounted on one leg, the arm being adapted to swing in the plane of the bifurcated legs; a roughened match-striker fixed on the other leg; a spring yieldably urging the outer end of the arm away from the striker; a linkage rod connected to the arm and extending inwardly to the handle and adapted when actuated to pivot the arm toward the striker against the force of the spring; and a holder on the arm to receive and hold a match with its head facing outwardly from the pivot.

2,637,990
GAS FUELED CIGAR LIGHTER
Alexander H. Aronson, South Orange, N. J., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application January 4, 1950, Serial No. 136,798
3 Claims. (Cl. 67—7.1)



1. A gas fueled lighter of the character described, including a casing having therein a chamber constructed to hold gaseous fuel under pressure, a burner structure having a fuel passageway leading to a point adjacent the exterior of said casing, said casing also carrying a cap mounted to swing between positions wherein it respectively overlies and exposes said fuel passageway, said burner structure carrying a fuel valve member mounted to move between an inner position in which said passageway is closed and an outer position in which said fuel passageway is open, said cap having a closure member thereon engageable with said fuel valve member when said cap is in burner overlying position to hold the fuel valve member in passageway closing position, spring means urging said closure member away from said cap and in fuel valve member engaging direction, said closure member being limited in its movement in said direction whereby said closure member holds said fuel valve member in passageway closing position during the initial part of the movement of said cap from burner overlying toward burner exposing position and releases said fuel valve member in burner exposing position, said lighter having means activated during movement of said cap from burner overlying to burner exposing position to ignite gaseous fuel issuing from said burner.

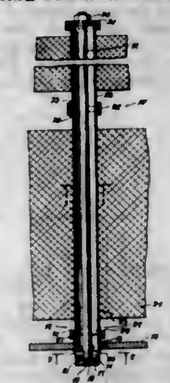
2,637,991
FABRIC TREATING SYSTEM
Samuel Cohn, New York, and Jules G. Walter, Ridgewood, N. Y., assignors to Samcoe Holding Corporation, Woodside, N. Y., a corporation of New York
Application October 1, 1946, Serial No. 700,536
14 Claims. (Cl. 68—20)



1. In a fabric feeding system, the combination with rolls feeding a plurality of tubular fabric strips in parallel relation with each roll in engagement with each strip, of subsequent feeding means comprising a series of rotary drums with all of the said strips engaging the periphery of each drum, and means controlling the relative rates of feed of said strips comprising an adjustable spreader in each strip, and means for separately adjusting said spreaders to different widths.

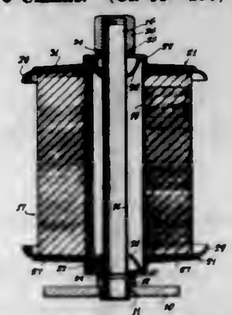
2,637,992
DYEING APPARATUS FOR TEXTILE PACKAGES
Ernest A. Stienen, Peekskill, N. Y.
Application April 9, 1949, Serial No. 86,501
2 Claims. (Cl. 68—198)

1. A spindle assembly for removably connecting a package wound on a perforated tube to a carrier comprising, in combination, a socket having a longitudinal bore and a plurality of transverse openings adjacent one end thereof for passage of liquid serially therethrough, the total cross-sectional area of said transverse openings being at least equal to the cross-sectional area of said longitudinal bore, said one end of said socket being solid and having a centrally disposed threaded opening therein in axial alignment with said bore, the other end of said socket being formed with an enlarged portion greater than the diameter of said perforated tube and having on its front face a centrally disposed recess with an arcuate wall sloping inwardly from said face continuously to the bore, the diameter of said bore being uniform from said transverse openings to said recess, whereby full flow of the liquid is obtained through said transverse openings and bore, and a rod having a threaded end for mesh engagement with said threaded opening in said one end, said rod and arcuate recess being



disposed in coaxial relationship with respect to each other.

2,637,993
APPARATUS FOR FLUID TREATMENT OF YARN PACKAGES AND THE LIKE
Ernest A. Stienen, Peekskill, N. Y.
Application February 17, 1950, Serial No. 144,654
3 Claims. (Cl. 68—198)

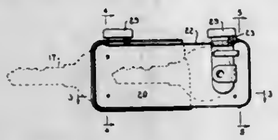


1. In apparatus for fluid treatment of a yarn package, the combination of a perforated tube on which the yarn is wound, a perforated spindle extending through said tube, each end of said tube having a centrally apertured, inwardly cupped portion for centering the tube on the spindle in spaced relation thereto, and a pair of compression plates each having means for mounting the same adjacent one end of said tube and having an annular zone for engaging a side of the package flared towards the other side of the package from the outer periphery of said tube to the outer periphery of the package to thereby apply progressively increasing compression at the side of the package from the inner periphery to the outer periphery.

2,637,994
KEY HOLDER
Joseph R. Harrison, Jr., Chicago, and Walter Dian, Downers Grove, Ill.; said Dian assignor to said Harrison, Jr.
Application January 28, 1950, Serial No. 141,104
11 Claims. (Cl. 70—456)

2. A key case having a slotted wall and an open end through which a key is longitudinally

reciprocable, a rail in said casing having an aperture at one end thereof, a key holder slidable on said rail and having one end portion thereof extending through said slot, means provided on the holder for detachably supporting a key, a manually operable actuating member mounted on the last mentioned end portion of the holder



for manipulating the key into and out of the case through the opening, a latch carried by the holder adapted to engage the aperture in the rail for locking the key in extended position, and resilient means on the holder frictionally engaging an inner wall of the case for preventing accidental longitudinal movement of the key within the case.

2,637,995

SURFACE-COVERING TILE

Zelvern W. Mann, Chicago, Ill., assignor to The Meyercord Co., Chicago, Ill., a corporation of Illinois

Application December 22, 1948, Serial No. 66,796

4 Claims. (Cl. 72—18)



1. An article of the class described comprising a semi-rigid tile member having a generally flat body portion and lip portions adjacent the peripheral edges thereof turned outwardly from the plane of said body portion to define an adhesive-receiving recess on one side of said member, a layer of a normally-tacky pressure-sensitive adhesive material disposed in said recess, said layer of adhesive material being peripherally enclosed and substantially isolated by said lip portions and said recess being filled by said adhesive material substantially to the outer extremities of said lip portions, and a removable sealing sheet disposed over said adhesive layer in sealing engagement with said lip portions around the entire periphery of said member whereby said adhesive layer is completely enclosed for maintaining its normally tacky and pressure-sensitive condition during non-use of the article, said sheet being releasable from said adhesive layer and said lip portions to expose the same for adhering said member to a surface without requiring the use of additional adhesive material.

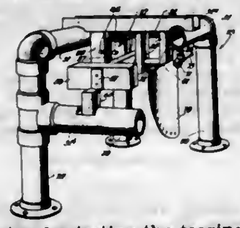
2,637,996

METHOD AND APPARATUS FOR TESTING PAPERBOARD

Robert C. McKee and George R. Sears, Appleton, Wis., assignors to The Institute of Paper Chemistry, Appleton, Wis., a corporation of Wisconsin

Application September 9, 1948, Serial No. 48,375

6 Claims. (Cl. 73—96)



1. Apparatus for testing the tearing resistance of paperboard, comprising a frame, a pair of clamps which are adapted to grip the specimen to be torn along a pair of spaced-apart parallel lines, said clamps each comprising a pair of opposed jaws, means for rigidly attaching one of said clamps to said frame, means for supporting the other of said clamps for rotation about an axis which passes through said clamps between said jaws whereby portions of each of said jaws are disposed on opposite sides of said axis, said axis being normal to the spaced-apart lines along which the specimen is gripped, means for rotating said rotatable clamp, and means for measuring the energy required to effect the rotation of said rotatable clamp.

2,637,997

FLOWMETER FOR OXYGEN TANKS

Raymond C. Webster, Kansas City, Mo., assignor to W. E. Anderson, Inc., Kansas City, Mo.

Application August 15, 1949, Serial No. 110,270

3 Claims. (Cl. 73—230)



1. In a flowmeter, a block provided with an inlet passageway, an opposed outlet passageway, a first annular cavity in the uppermost face thereof, a port connecting the first cavity with the inlet passageway, a second annular cavity in said face surrounding the first cavity, and a port connecting the second cavity with the outlet passageway; a center plate overlying the block and having a number of vertical openings therethrough communicating with the first cavity; a ring-like member overlying the center plate and presenting a propeller chamber; a top plate overlying the member and having a third annular cavity communicating with the chamber, said center plate and said member having a plurality of vertical passages interconnecting the second cavity and the third cavity, said block, said member and said plates being interconnected, presenting a unitary housing; and a propeller rotatably mounted in said chamber directly above said openings within the path of travel of pressurized fluid emanating from the latter, said passages surrounding the axis of rotation of the propeller in concentric relationship thereto.

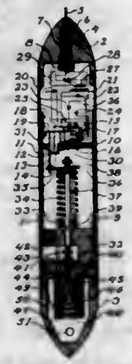
2,637,998

APPARATUS FOR DETERMINING WELL PRESSURES

John H. Ramser, Chester, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 14, 1946, Serial No. 709,678

3 Claims. (Cl. 73—300)



1. Apparatus for detecting fluid pressure in a well comprising a chamber adapted to be lowered into the well, an oscillatory circuit in the chamber including a triode, one element of said triode being movable with respect to the other elements and the frequency of oscillation of said circuit being variable in accordance with movement of said movable element, pressure responsive means located in said chamber and deformable in response to changes in fluid pressure, a contact arm secured to said pressure responsive means and adapted to move toward said movable element upon an increase in pressure on said pressure responsive means, means for adjusting the position of said contact arm with respect to said movable element to cause said contact arm to bear upon said movable element to change the position thereof when pressure upon said pressure responsive means is above a predetermined value and to remain out of contact with said movable element whenever pressure on said pressure responsive means is below said predetermined value, whereby the frequency of oscillation of said circuit will vary as a function of pressure on said pressure responsive means above said predetermined pressure and will remain constant during changes in pressure on said pressure responsive means below said predetermined pressure, and means for continuously determining said frequency of oscillation.

2,637,999

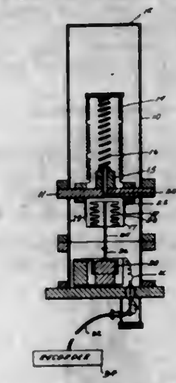
MARINE WAVE METER

Arthur A. Klebba, Woods Hole, Mass., assignor to United States of America as represented by the Secretary of the Navy

Application April 10, 1946, Serial No. 660,867

2 Claims. (Cl. 73—301)

1. Apparatus for measuring relatively rapid fluctuations in the height of a fluid column comprising, a plate having a central aperture formed therein, a first resilient bellows having one open end and one closed end, the open end of said first bellows being joined to said plate at one side thereof in a fluid tight seal in a position to surround said aperture, a first cup-like member having the open end thereof joined to the other side of said plate in a fluid tight seal in a region surrounding said aperture, a second cup-like member of greater size than said first surrounding said first cup-like member and having the open end thereof secured to said plate in a fluid tight seal, a second resilient bellows disposed within said first cup-like member and having an open end secured to the bottom of said first cup-like member in a fluid tight seal, said first cup-like member being formed with an opening in the bottom thereof providing free communication be-



tween the interior of said second bellows and the interior of said second cup-like member, means formed with a restricted passage connecting the interior of said first cup-like member to the interior of said second cup-like member, means responsive to movement of said second bellows for generating an electrical signal and a cable passing through said second cup-like member in a liquid tight seal for coupling said electrical signal to an indicator.

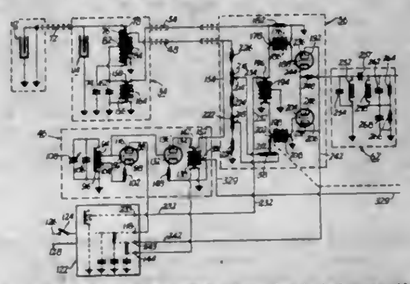
2,638,000

BRIDGE-TYPE CAPACITANCE LIQUID LEVEL GAUGE

Carl G. Sontheimer, Riverside, Conn., assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware

Application January 14, 1950, Serial No. 138,611

21 Claims. (Cl. 73—304)



1. In a system for measuring the total quantity of liquid in two remotely-positioned tanks, first and second condensers comprising spaced plates, each of said condensers being positioned in one of said tanks so as to permit the liquid in the tank to seek its level between said plates thereby causing their capacity to vary as a function of the amount of liquid in the tank, first and second normally unbalanced alternating current bridge circuits each including one of said condensers as

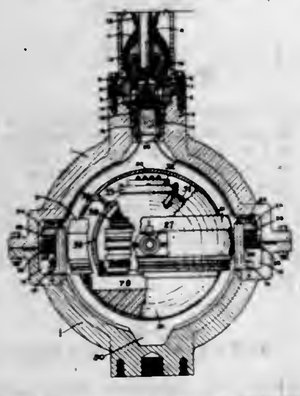
one arm thereof, said bridge circuits each having energizing and output terminals and being positioned, respectively, adjacent said first and second condensers, a common high frequency oscillator connected to the energizing terminals of both of said bridge circuits, first and second adjustable voltage-dividing networks connected, respectively, to the output terminals of said bridge circuits, circuit means connecting at least a portion of said voltage-dividing networks in series so as to add the bridge unbalance voltages with in-phase relationship, and measuring apparatus positioned remotely from said tanks for measuring the voltage produced across said last-said circuit means.

2,638,001

UNDERWATER MEASURING DEVICE

Hughes M. Zenor, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application January 9, 1947, Serial No. 721,032
4 Claims. (Cl. 73—382)



1. A force measuring device for use under water comprising an outer water-tight casing, means for suspending said casing from the surface, an inner casing spaced from said outer casing and mounted for rotation in any direction with respect thereto, means for keeping a selected axis of said inner casing vertical, a third casing within said inner casing, means for holding said third casing in spaced relation to said inner casing, a container within said third casing, a universal connection between said container and said third casing providing free relative movement between them and elements responsive to the force to be measured mounted within said container.

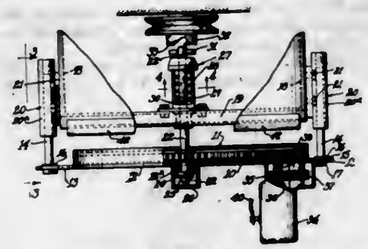
2,638,002

TRACTOR ENGINE STARTING APPARATUS

Everett W. Tenbrink, Dodge City, Kans.

Application June 21, 1952, Serial No. 294,853
9 Claims. (Cl. 74—6)

1. The combination with a vehicle frame having side members and a transverse front member, of a power operated starter unit extending across the front of the frame, means connecting said unit to said side members for sliding movements lengthwise of the latter, a bearing device fixed to the middle of said front member, said unit having an engine starting shaft extending slidably and rotatably through said bearing device, cooperating stop elements on said shaft and said bearing device to limit the outward movement of



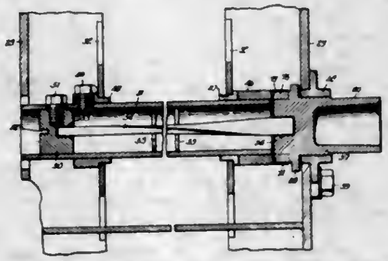
the shaft, and a spring acting on said shaft yieldingly to hold it in its outermost position.

2,638,003

OPERATING MECHANISM FOR HIGH VOLTAGE ELECTRIC CIRCUIT INTERRUPTING DEVICES

Sigurd I. Lindell, Chicago, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware

Application February 15, 1950, Serial No. 144,297
9 Claims. (Cl. 74—100)



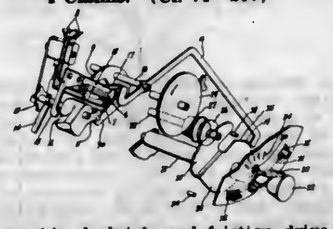
1. A snap acting device comprising, in combination, a rockably mounted driving member, a driven member, bearing means rockably mounting said driven member about the axis of rotation of said driving member and independently thereof so that each member is freely movable with respect to the other member, a main spring interconnecting said members, a latch member pivotally mounted to rock about an axis parallel to said axis of rotation and acting to prevent movement of said driven member, a cam on said driving member, a cam follower on said latch member, and a latch spring cooperating with said latch member and biasing said cam follower into engagement with said cam, said driving member being rockable through a predetermined arc to tension said main spring while said driven member is restrained by said latch member until said cam operates said latch member out of engagement with said driven member whereupon said driven member is rocked with a snap action by said main spring in the same direction that said driving member was rocked; and arcuately spaced shoulders on one of said members, and a cooperating boss on the other of said members whereby direct driving engagement therebetween is had when said driving member has rocked through said arc and said latch means no longer prevents movement of said driven member and direct driving engagement therebetween also is had when said driving member is rocked in the opposite direction.

2,638,004

COMBINED FRICTION DRIVE AND DETENT

Robert L. Boyles, Framingham, Mass., assignor to General Electric Company, a corporation of New York

Application February 15, 1952, Serial No. 271,833
4 Claims. (Cl. 74—207)



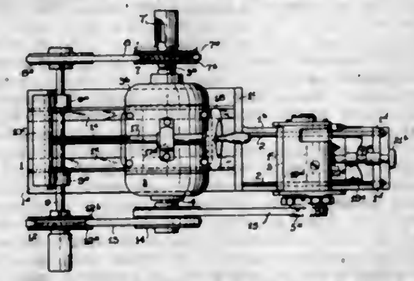
1. A combined clutch and friction drive comprising a wheel adapted to be continuously driven in a given direction, a manually adjustable rotary shaft having an axis of rotation substantially parallel to the axis of rotation of said wheel, a sector-shaped member fixed on said shaft and having a generally circular periphery rotatable into and out of frictional driving engagement with the periphery of said wheel, the peripheral engaging surface of said sector-shaped member having spaced shallow depressions forming setting gauging detents along its engaging surface, resilient means for maintaining the engaging surfaces in contact in all rotary engaging positions, and means for manually rotating said shaft to establish and adjustably set said frictional driving engagement relation, the engaging surfaces slipping during such setting and when not manually restrained said shaft is driven by said wheel through the adjusted engagement range of operation of said parts without slippage.

2,638,005

DRIVING MECHANISM

John W. King, Warrensville Heights, and James J. McNamee, Garfield Heights, Ohio, assignors to Miles Park Machine & Tool, Inc., Cleveland, Ohio, a corporation of Ohio

Application October 1, 1949, Serial No. 119,162
4 Claims. (Cl. 74—230.17)



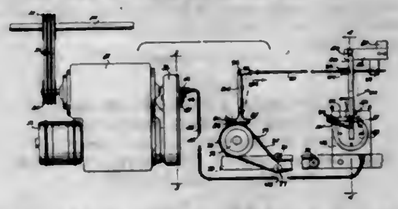
1. In a mechanism for driving the shaft of an apparatus to be tested, one end of the shaft being provided with a pulley, the combination with a base and a motor mounted on said base, of means on said base at one side of said motor for securing the apparatus thereon with the shaft of the apparatus parallel to the motor shaft, a second pulley on that end of the shaft of said motor remote from the first mentioned pulley, said second pulley consisting of a pair of disks keyed to the shaft of the motor and having opposed conical faces, one of said disks being slidable endwise of said motor shaft away from and toward the other disk, spring operated devices for moving said slidable disk toward the other disk, a support swingably mounted at its lower end on said base at that side of said motor remote from the apparatus on an axis parallel to the motor shaft, a counter-shaft disposed parallel to the motor shaft, mounted on said support for movement therewith, a third pulley fixed to one end portion of said counter-shaft in alinement with said second mentioned pulley and formed with a V-shaped belt receiving groove, an endless belt engaging said alined pulleys to drive said last mentioned pulley, a separate pulley mounted on the other end portion of said counter-shaft and consisting of a pair of disks keyed to said counter-shaft and having opposed conical faces, one of said disks being slidable away from and toward the other disk, spring operated devices for moving said slidable disk toward the other disk, a supplemental pulley consisting of fixedly related, side-by-side endless belt engaging members rotatably mounted between and in alinement with said separate pulley and said first mentioned pulley, respectively, the periphery of that member in alinement with said separate pulley being V-shaped, an endless belt between and engaging each of said members and the pulley alined therewith, and means for swinging said support to move said counter-shaft toward and from said pulley on the motor shaft and said supplemental pulley.

2,638,006

SPEED CHANGE AND CONTROL MECHANISM

Ernest A. Feustel, Hasbrouck Heights, N. J.

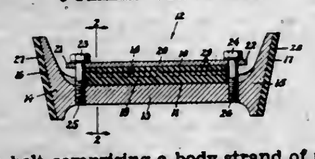
Application June 24, 1947, Serial No. 756,630
6 Claims. (Cl. 74—230.17)



4. An electric drive and speed-control for a knitting machine including an electric drive-motor, a variable ratio-changer operatively connected to said drive-motor, a reversible electric control-motor operatively connected to said ratio-changer, an electrical contactor having two mutually rotatable members one of which carries at least two spaced electrical contact segments insulated from each other and the other of which carries at least one electrical contact arranged to ride onto and off the aforesaid segments by relative rotation of said two members, one of said segments being electrically connected to said control-motor to cause rotation of said motor in one direction and the other of said segments being connected to said control-motor to cause its rotation in the other direction when the electrical contact of the other member engages one or the other of said segments, one of said members being connected to said control-motor through a fixed-ratio speed-reducer interposed therebetween to rotate said motor-connected member at a speed much less than the speed of said control-motor, a pattern-chain having projections thereon, a follower in operative juxtaposition to said pattern-chain and means intermediate said follower and the other of said

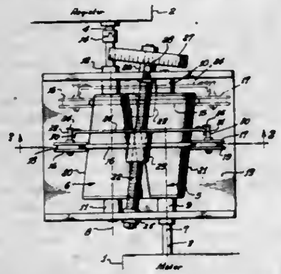
two mutually rotatable members for rotating the latter to and fro to an angular extent substantially less than 360° responsive to the presence and absence of a projection on said pattern-chain displacing said follower.

2,638,007
EDGE-ACTIVE BELT
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application May 3, 1951, Serial No. 224,305
6 Claims. (Cl. 74—236)



1. A belt comprising a body strand of material of high tensile strength, but readily flexible both longitudinally and transversely, having a series of longitudinally-spaced, transversely-extending cleats on the inner surface thereof, and a plurality of longitudinally-spaced, transversely-rigid stiffener blocks each secured to said strand in registry with one of said cleats and each comprising a transverse beam integrally carrying members at its opposite ends formed to present oppositely-facing surfaces allochirally angularly related to a plane perpendicular to said beam, said beam being formed with an upwardly presented surface extending continuously between said members engaging the cleat bearing surface of said strand and having a central groove therein extending from one to the other of said members receiving therein one of said cleats, and means cooperating with said strand to secure said strand to said beam.

2,638,008
ADJUSTABLE COMPENSATOR FOR REGISTERING METERS
Francis W. Guibert, Los Angeles, Calif.
Application June 22, 1951, Serial No. 233,036
7 Claims. (Cl. 74—242.3)



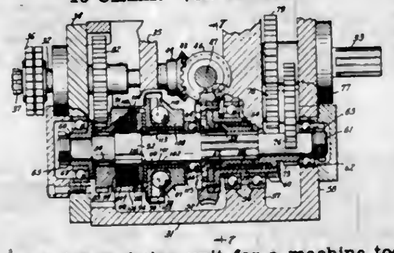
1. In a compensating device for meters of the indicating, recording, or registering type: a pair of cones having parallel axes of rotation, the large end of one cone being adjacent the small end of the other cone; a flexible belt engaging both cones; a belt shifter having a pair of rolling members, each member respectively engaging the belt substantially at the extreme outside elements of the cones; said belt shifter having provisions for resiliently urging the members to belt engaging position; and means for moving the belt shifter.

2,638,009
QUICKLY-DEMOUNTABLE CHAIN
William Beveridge, Detroit, Mich.
Application January 22, 1951, Serial No. 207,211
3 Claims. (Cl. 74—254)



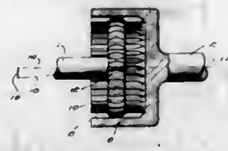
1. A quickly-demountable chain comprising elongated laterally-spaced side links, transverse pivot elements pivotally mounted in said side links at opposite ends thereof, and center links with enlarged end portions and narrowed intermediate portions pivotally interconnecting said pivot elements in alternating sequence with said side links, said center links having elongated holes adapted to slidably receive said pivot elements, said pivot elements having constricted shanks with enlarged heads at the opposite ends thereof, and said side links having elongated openings therein adapted to receive said pivot elements, the side surfaces of said enlarged end portions of certain of said center links adjacent the outer ends of said hole being inclined away from said outer ends of said hole whereby to facilitate lateral tilting of said side links relatively to said center links.

2,638,010
TRANSMISSION UNIT
Charles B. De Vlieg, Farmington, Mich.
Application September 10, 1949, Serial No. 115,121
16 Claims. (Cl. 74—336)



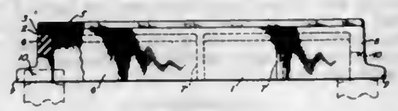
1. In a transmission unit for a machine tool, the combination of a drive shaft, means for driving said shaft at a low speed and a high speed, a driven shaft, a first power train between said drive shaft and said driven shaft including speed reduction gearing the final gear of which is freely rotatable about the driven shaft concentric therewith and a first clutch mounted on said driven shaft and operable to effect a connection between said final gear and said driven shaft having a given high to low ratio at said low speed, a second power train between said drive shaft and said driven shaft including gearing terminating in a final gear freely rotatable about the driven shaft concentric therewith and a second clutch mounted on said driven shaft and operable to effect a connection between said final gear of the second gear train and said driven shaft, and speed responsive means driven by said second power train and mounted on said driven shaft and operable to disengage said first clutch and engage said second clutch when said drive shaft is driven at said high speed whereby a relatively high to low ratio is obtained between the drive shaft and the driven shaft when the drive shaft is operated at the high speed compared with said high to low ratio between said shafts when the drive shaft is operated at the low speed.

2,638,011
TOOTH FORM FOR FLEXIBLE COUPLINGS
John Charles Smith, Farmington, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application February 21, 1951, Serial No. 212,044
7 Claims. (Cl. 74—462)



1. A tooth form for a spline having a center of curvature for the tooth form located between the axis of the spline and the pitch circle and in which any tooth form on an arc about said center of curvature is rectangular.

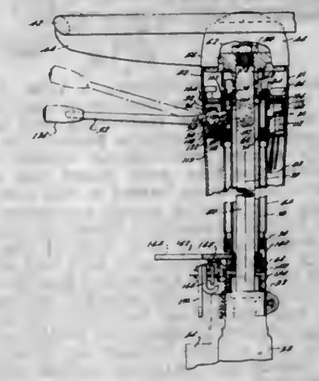
2,638,012
BUTTON PANEL KEY
Paul G. Lewis, Tonawanda, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application May 24, 1950, Serial No. 164,018
3 Claims. (Cl. 74—471)



1. A button panel key comprising an elongated strip member having a longitudinal channel in the upper face extending throughout the length thereof, a transparent finger strip mounted on the upper face of said strip member over said channel and extending from end to end thereof, side and end flanges extending from the opposite marginal portions of said strip member and feet mounted on and extending outwardly from the free ends of said end flanges and formed with a longitudinally extending slot for receiving button flanges.

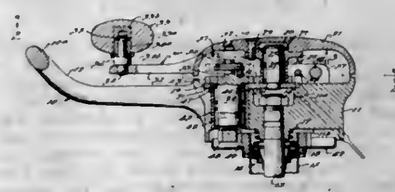
2,638,013
REMOTE CONTROL FOR TRANSMISSIONS
Elmer C. Dodt, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 27, 1951, Serial No. 248,557
12 Claims. (Cl. 74—484)

1. In a transmission control for an inclined steering column comprising a steering shaft and a steering column jacket disposed coaxially one within the other with an annular space between, spaced bearing means supported inside the steering column jacket, a tube journalled in said bearing means for axial and rotational movement in said space, a shroud for the steering column having longitudinally successive fixed and rotatable sections conforming to a generally cylindrical path of revolution about said column jacket, said rotatable section being rotatable about its central axis, and the tube having an upper end substantially in the plane of rotation of said rotatable section, said column jacket having a transverse slot adjacent the upper end of the tube and said shroud having an open-ended socket therewithin open at its inner and outer ends and arranged such that the longitudinal axis thereof is in registry with said transverse slot, and a lever extending successively through the socket and arranged to fulcrum against the walls thereof and through the registering slot and having an end forming a pivotal connection with the upper end of the tube for controlling axial and rotational movement of the tube in
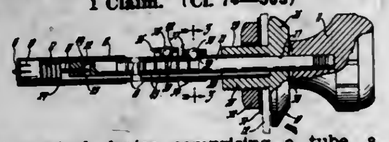


said bearing means, said lever having an enlarged intermediate portion disposed entirely within said cylindrical path of revolution and occupying said socket so as to close off at least the outer end opening of the latter.

2,638,014
STEERING MECHANISM FOR MOTOR VEHICLES
Reid A. Railton, Berkeley, Calif., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application October 3, 1950, Serial No. 188,217
11 Claims. (Cl. 74—498)



1. In a vehicular steering mechanism, a steering column, a steering member rotatably mounted within said steering column, a steering device having its hub rigidly mounted on said steering member, a gear train rotatably mounted on said hub, a non-rotatable gear rigidly mounted on the steering column, said gear train having one gear thereof operatively engageable with said non-rotatable gear, manually operable means exclusive of said steering device for driving said gear train to cause said one gear to rotate about the periphery of said non-rotatable gear and thereby rotate said hub and said steering member, said gear train having a coupling member shiftable in one direction to disengage said one gear from said non-rotatable gear and to couple said manually operable means directly to said hub, and a second manually operable means for shifting said coupling member.

2,638,015
CONTROL DEVICE
Harold J. Schoelles, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 4, 1950, Serial No. 199,653
1 Claim. (Cl. 74—503)



A control device comprising a tube, a rod mounted in said tube for longitudinal movement therein, and means for restraining said longitudinal movement including a plurality of longitudinally spaced self-retained detent units formed along the tube, each detent unit cooperating with an opening formed in said tube, and comprising a split band spring embracing said tube and having an aperture therein, a ball detent of larger diameter than that of the tube opening and spring aperture, said ball detent positioned between the spring and tube and extending through the tube opening and spring aperture, said rod having longitudinally spaced depressions adapted to receive the portion of said ball detent that extends through said tube opening and thereby be restrained against longitudinal movement.

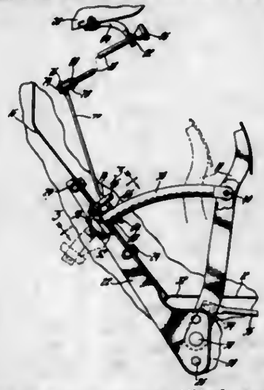
2,638,016
ACCELERATOR HOLDING MEANS
Donald J. Munson, Anderson, Ind.
Application February 29, 1952, Serial No. 274,093
5 Claims. (Cl. 74—513)



1. Engine accelerator holding means comprising a flexible element for connection with the accelerator, a reel to which said flexible element is anchored, means mounting said reel for rotating and for axial sliding, a relatively fixed and a relatively movable brake member for holding said reel against turning when engaged with each other, said movable brake member being unitarily connected with said reel for engagement with said fixed brake member when said reel is axially shifted in one direction, a single spring connected with said reel, said spring being tensioned in one direction to normally shift said reel in brake-releasing direction and being tensioned in another direction to exert a turning force on said reel, and means whereby said reel may be shifted in brake-applying direction.

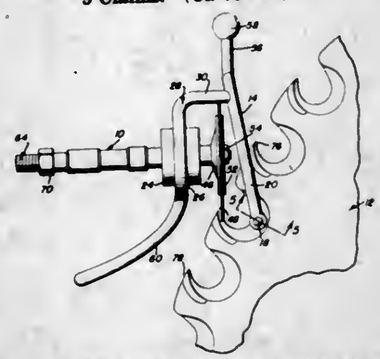
2,638,017
BRAKE LEVER
Edwin G. Sprung, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 16, 1948, Serial No. 39,077
12 Claims. (Cl. 74—541)

1. In a brake lever assembly, a mounting bracket, a lever pivoted to said bracket, an aperture in said bracket, a rod pivoted at one end to said lever and extending through said aperture, a guide secured to said bracket adjacent said aperture and having a pivot portion facing said bracket, a detent with a head portion positioned between said guide and bracket and engaging said pivot portion, a hole in said head portion through which said rod extends to releasably grip said rod



when the head portion is tilted, a spring compressed between said head and bracket resiliently holding said detent in engagement with said pivot portion and urging said head portion toward the tilted position, an elongated detent lever on said head portion to provide a large mechanical advantage, and detent operating means connected to said extension.

2,638,018
SAW SHARPENER
Bruce E. Davis, Rising Sun, Md., and Howard Mabe, Peach Bottom, Pa.
Application April 24, 1951, Serial No. 222,714
5 Claims. (Cl. 76—37)



1. In a saw filing device, a U-shaped yoke, inwardly extending guide fingers on the ends of the legs of said yoke adapted to guidably receive a saw blade therebetween, a pair of L-shaped arms each having one leg thereof secured to said yoke adjacent the web portion thereof, a hub secured between the other legs of said arms, a sleeve extending through said hub and a spindle rotatably journaled in said sleeve, an abrading element on one end of said spindle between said hub and said yoke, and means for driving said spindle.

2,638,019
METHOD OF MAKING A VANED MEMBER
Domnic V. Stellin, Chicago, Ill.
Application June 8, 1950, Serial No. 166,899
4 Claims. (Cl. 76—107)



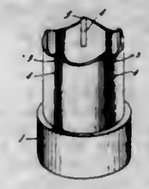
1. The method of making a vaned, sectionally cruciform member consisting in forming a solid conical end on a piece of elongated metal stock, forcing said end into a die of harder metal than said piece, having a cavity of less volume than said end, with lateral vane-forming recesses and vented only at the work-entrance opening of the cavity, the forcing pressure being such as to shape said end to the shape of said cavity and recesses and to force the excess metal by reverse flow through said opening in the form of a collar around said piece rearward of the originally conical end.

2,638,020
EXPANDING REAMER
Robert Fishwick, London, England, assignor to Victory Engineers Limited, London, England
Application April 11, 1949, Serial No. 86,676
In Great Britain April 12, 1948
2 Claims. (Cl. 77—76)



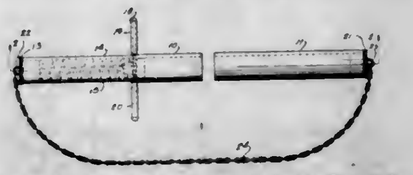
1. An expandable reamer including a body having an enlarged portion at one end thereof and an externally threaded portion inwardly of and adjacent the enlarged portion, said enlarged portion having a plurality of longitudinally extending, radially spaced slots therein, and the base of each slot being inclined to the longitudinal axis of the body, an internally threaded sleeve on said threaded portion, said body having a bore extending inwardly from the enlarged end and terminating in a threaded portion within the threaded portion of the body, said bore having successive enlarged portions adjacent the outer end thereof, with the largest portion outermost, the body having radially spaced apertures providing communication between the largest enlarged portion and the said slots, a plurality of blades having tapering bases disposed in said slots, each blade having a projection extending therefrom and disposed within said largest enlarged portion, a headed rod threaded on its inner end remote from the head and within the bore for cooperation with the threads thereon, a flanged bushing about said rod and disposed within said other enlarged portion of the bore and having a flanged bearing on the projections of all the blades, a spring concentric with the axis of and within said last mentioned portion and normally exerting force on said flanged bushing to move the same outwardly, and means on said head for exerting force on said projections in opposition to said spring, whereby when said sleeve is moved away from said enlarged end, rotation of said screw moves all said blades and said bushing against the action of said spring to one setting position and upon reverse rotation of said screw said spring exerts force on said bushing to move all said blades automatically to another setting position.

2,638,021
CROWN DRILL AND METHOD OF MAKING SAME
Arnoldus Laurentius van der Heiden, Amersfoort, Netherlands, assignor to Vennootschap onder firma A. G. F. Knopenfabriek, Rhenen, Netherlands, a corporation of the Netherlands
Application November 23, 1951, Serial No. 257,710
In the Netherlands October 20, 1951
3 Claims. (Cl. 79—16)



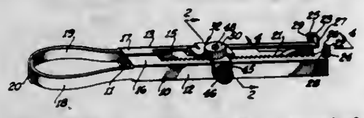
3. A thin-walled crown-drill comprising a steel cylinder having a thin wall portion of reduced thickness extending from one end thereof, a series of circumferentially spaced and axially extending recesses formed in said cylinder and opening at said one end of the latter and at the inner and outer wall surfaces of said thin wall portion, the confronting edges of each of said recesses being formed in cross-section as diametrically opposed sections of a circle, and a hard metal insert secured in each of said recesses and conforming at its opposite edges to said confronting edges of the related recess, the radially inward and outward faces of each insert being concave and convex, respectively, to conform to the contours of said inner and outer wall surfaces of said thin wall portion, said one end of the cylinder being relieved between said inserts to expose the ends of the latter and said ends of the inserts being pointed to constitute cutting tools.

2,638,022
AMPOULE BREAKER
Severo Reyes, Laredo, Tex.
Application February 15, 1952, Serial No. 271,701
3 Claims. (Cl. 81—3)



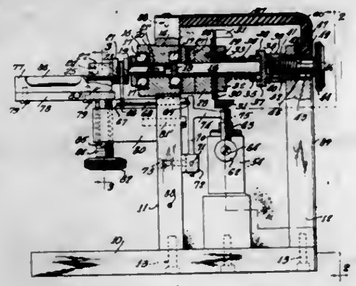
1. An ampule breaker comprising a first tubular body having one end open and angularly spaced apart slots extending longitudinally thereof from a location spaced from said one end to the other end thereof, a plug closing said other end, a piston slidable in said first tubular body, arms projecting outwardly from said piston one through each of said slots and providing finger engageable means for moving said piston toward said other end of the body to position an ampule at a position of adjustment projecting from said one end of said body, a compression spring in said body between said plug and said piston resiliently urging said piston toward the open end of said body, and a second tubular body having at least one open end for receiving the portion of an ampule projecting from said first body and breaking the ampule upon angular movement of said bodies relative to each other.

2,638,023
CLOSURE REMOVER WITH SLIDABLE TOOTHED WHEEL
Clyde L. Cudebec, deceased, late of Glendale, Calif., by A. W. Lane, administrator, Glendale, Calif.
Application May 27, 1949, Serial No. 95,688
2 Claims. (Cl. 81—3.42)



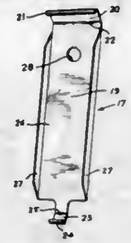
1. An opener comprising a channel-shaped frame member; inturned flanges on said channel-shaped frame member; a slide having projections thereon adapted to ride on said inturned flanges and having legs having outwardly bent portions engageable under said flanges; a rack formed upon one of said flanges; a pinion carried by said slide and engaging said rack; a toothed wheel mounted on said slide and connected with said pinion to rotate therewith; and jaw members on the forward end of said frame adapted to engage one side of a closure to be opened while said toothed wheel engages the other side of said closure member, said toothed wheel being mounted on said slide to one side of a longitudinal axis drawn through said frame member.

2,638,024
WATCH WINDING MACHINE
John H. Gotter, Abilene, Tex.
Application September 28, 1951, Serial No. 248,746
7 Claims. (Cl. 81—7.5)



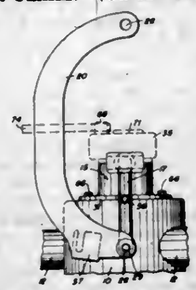
1. In a machine for winding watches, a frame, a winding shaft journaled in said frame, a winding head on said shaft, an arbor carrying said winding head capable of limited longitudinal displacement axially with respect to said winding shaft, a fixed clutch member on said winding shaft, a movable clutch member spring biased into frictional engagement with said fixed clutch member, a bladed impeller affixed to said movable clutch member, an air chamber in which is maintained air under constant pressure, a nozzle communicating with said air chamber and directed towards said impeller, a valve normally closing said nozzle against release of air from said chamber, a rocking arm pivoted to said frame having a finger engaging said valve, a push rod for actuating said rocking arm and means depending from said arbor and actuated upon displacement of said winding head to move said push rod and rocking arm to open said valve to release air through said nozzle against the blades of said impeller to rotate said winding shaft and head.

2,638,025
HARDWARE REMOVING TOOL
Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application September 3, 1948, Serial No. 47,637
2 Claims. (Cl. 81—15)



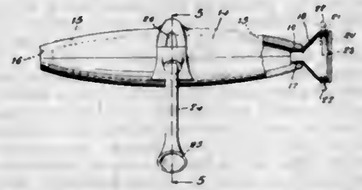
1. A tool for facilitating the removal of a fitting from within a Venetian blind hollow enclosed metal bar in which the fitting is secured to an interior wall of the head bar by at least one metal tab struck from the wall thereof, said tab extending into the interior of the head bar, being bent over a portion of the fitting, and leaving a slot in the wall of the head bar adjacent to the tab, said tool comprising: a member formed of relatively thin sheet metal having a thin, flat, rigid end bent back upon itself in parallel spaced relation to form a hook for entry through said slot and for engagement over the fitting-securing tab to bend the same away from the fitting, said tool end being adapted for insertion through the slot adjacent to said tab, and having a generally straight body portion, the end of the tool having a slight transverse bend a short distance from the hook and inclined in the same direction as the hook to facilitate engagement of the tool with the tab.

2,638,026
WRENCH FOR USE WITH AN AIRPLANE PROPELLER
John F. Sweeney, Edward T. Able, and Irwin A. MacKay, Denver, Colo., assignors to B. K. Sweeney Manufacturing Company, Denver, Colo., a corporation of Colorado
Original application May 9, 1949, Serial No. 92,126. Divided and this application May 31, 1950, Serial No. 165,226
2 Claims. (Cl. 81—54)



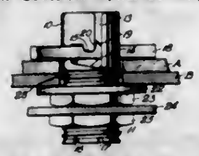
1. A wrench for use with an airplane propeller wherein the hub thereof is secured to a motor shaft by means of a nut accessible from an end of the hub, and wherein an anchor member is detachably secured to said hub and provided with a cylindrical walled opening coaxial with and through which said nut is accessible; said wrench comprising a housing for support on said anchor member and being provided with means for releasably securing the same to the anchor member, an elongated cylindrical socket member extending through said housing and being extendable through said opening in said anchor member and having means on one end thereof for rotatable locking engagement with the nut, and power means in said housing for rotating said socket member with a corresponding rotation of the nut.

2,638,027
WIND INSTRUMENT
Gaston M. Strobino, Chicago, Ill.
Application July 17, 1947, Serial No. 761,544
3 Claims. (Cl. 84—380)



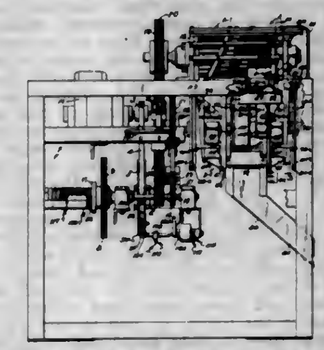
1. In combination, in a musical instrument, means defining a resonance chamber, said resonance chamber shaped to provide a plurality of openings spaced apart, an aperture formed in said means and positioned between said openings, a deflecting surface forming member positioned adjacent said aperture, a groove positioned along the lower edge of said surface forming member, and a windpipe connected to said means and directed to discharge air against said deflecting surface forming member and thereafter across said opening, whereby air blown through said windpipe is discharged against said deflecting surface and is deflected above and across said aperture and establishes an air current across said aperture which is effective to draw air from said resonance chamber and to create a musical note.

2,638,028
SLEEVE FASTENER
John P. Francesco, Haverhill, Mass., now by judicial change of name John Patsy Francis
Application October 5, 1949, Serial No. 119,722
2 Claims. (Cl. 85—3)



1. A sleeve fastener adapted to be applied from one side of an article, comprising a hollow sleeve with external threads at one end and opposite substantially straight longitudinal slots extending from the end of the opposite end and connected with lateral locking extensions disposed within a range between a right angle to slightly less than a right angle therefrom, a separable substantially rectangular shaped locking bar provided with a central transverse aperture adapted to engage a removable holding rod whereby the said bar is adjustably movable axially and transversely within said laterally disposed locking extensions, said locking bar adapted to be pivotally inserted through an opening in an article from one side thereof and held engaging the other side of the article by a removable holding rod engaging the said central transverse aperture of said locking bar, the opposite substantially straight longitudinal slots of the sleeve engaging the said locking bar upon attaching the said sleeve thereto and said locking bar further engaging the laterally disposed locking extensions upon either rotation of the said sleeve or upon axial movement of said locking bar, and a nut threaded on the outer end of the sleeve to provide an adjustable abutment in clamping said sleeve fastener and to resist retrograde axial and transverse movement of the locking bar whereby the removable holding rod is then disengaged from the central transverse aperture of said locking bar.

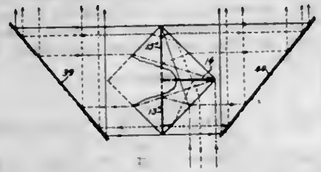
2,638,029
MACHINE FOR DELINKING AND SEGREGATING CARTRIDGES
Harold Boehmer, Salt Lake City, Utah
Application August 11, 1947, Serial No. 767,896
3 Claims. (Cl. 86—48)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a machine for de-linking cartridges, the combination of a cylindrical cage comprising circular end plates and a plurality of struts mounted on the peripheries of said plates and extending therebetween; a cylindrical drum rotatably mounted in said cage concentrically therewith, said drum being provided on its periphery with a plurality of sockets for receiving the links of the cartridges and a plurality of sockets for receiving the cases of the cartridges, axially aligned with the link-receiving sockets, respectively; a plurality of carriages on the periphery of the drum and slidable axially thereof in grooves in the periphery of said drum aligned with the case-receiving sockets, respectively, each of said carriages having a post projecting radially from said drum, and a roller rotatable about each post; a cam plate, mounted on the cage struts, for co-action with said rollers to drive said carriages toward one of said cage end plates, when said drum is rotated; a second cam plate, mounted on the cage struts, for co-action with said rollers to drive said carriages toward the other of said cage end plates, when the drum is rotated; means on each carriage for grasping a socketed case when the carriage is driven by said first cam plate, and for withdrawing the grasped case from the links when the carriage is driven by the second plate; means, mounted on one of said cage struts, to

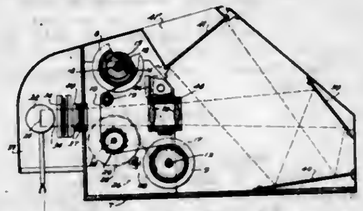
disengage each withdrawing means from the withdrawn case; and means to discharge separately from the machine the withdrawn cartridges and the links.

2,638,030
BEAM SPLITTING MEANS
Hubert Schröder, Munich, Germany, assignor to Fish-Schurman Corporation, New York, N. Y., a corporation of New York
Application December 24, 1949, Serial No. 134,886
In Germany December 27, 1948
14 Claims. (Cl. 88—1)



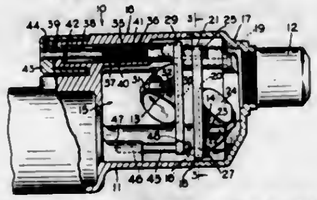
1. An optical system for deflected light paths capable of splitting light beams into at least two beams comprising three optical prisms cemented together and three interference films located between adjacent cemented surfaces of said prisms, each of said films being contained in a plane which intersects the plane containing another of said films along a straight line disposed at right angles to the incident plane of the composite prism, the plane of one of said films being intersected at the same angle α by two prism surfaces which intersect such plane outside the said line of intersection of such plane with the plane of another film, the plane of a second film being intersected at the same angle α by one of said two prism surfaces, and the plane of the third film being intersected at the same angle β by two other prism surfaces which intersect such plane outside the said line of intersection of such plane with the plane of another film, said last three mentioned prism surfaces intersecting the planes of said second and third mentioned films to form equal angles 2β between each adjacent pair of such surfaces, the outer surface of the prism whose isosceles sides are in contact with said first and second mentioned interference films forming the incident side of the composite prism and the light impinging on such outer surface being split by said second mentioned film into two parts which are totally reflected towards said first and third mentioned films by the outer surfaces of such entrance prism and the adjacent prism whose inner surfaces are in contact with said second and third mentioned interference films, the component beams being each split into two parts by said first and third mentioned interference films, the split part of the component beam reflected by said first mentioned interference film leaving the composite prism through the outer surface of said entrance prism and the split part of the component beam reflected by said third mentioned interference film leaving the composite prism through the outer surface of said adjacent prism, the split parts of the component beams passing through said first and third mentioned films leaving the composite prism through the adjacent outer surfaces of the third prism, and said interference films each consisting of a plurality of alternate layers of material having high and low index of refraction compared to that of the composite prism and capable of interference of the light to be split.

2,638,031
PROJECTION VIEWING AND CALCULATING DEVICE
Clifford H. Stockwell, Ottawa, Ontario, Canada
Application October 22, 1949, Serial No. 122,919
2 Claims. (Cl. 88—24)



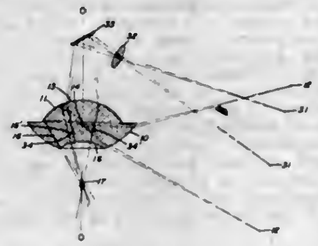
2. A viewing instrument for at least two indicia-bearing bands of film comprising a casing, having a recessed well in the upper portion thereof, a pair of supporting spools for each film band, a screen mounted at the base of said well for shading from extraneous light, means for simultaneously projecting an image from a portion of each film band in laterally aligned relation on said screen, said means including a projection lens for each film band, means mounting said lenses in the casing for lateral adjustment with respect to each other to adjust laterally the portion of said images on the screen, and reflectors for directing the projected images onto said screen, said screen comprising a pair of laterally aligned and angularly oriented sheets, said sheets having meeting edges along the longitudinal center line of the screen, and manually operable means for causing travelling movement of each film band selectively in unison with and independently of each other to project images of desired portions of the graphs on the screen.

2,638,032
TELESCOPE HAVING PRISM MOVABLE FOR FOCUSING
Joseph D. Kieffer III, Rochester, and William M. Strom, Irondequoit, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 5, 1951, Serial No. 224,746
3 Claims. (Cl. 88—33)



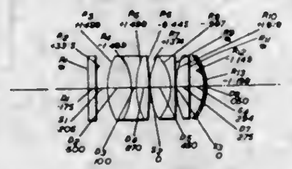
3. In a prismatic telescope having a casing and an optical system including a prism which is movably mounted within the casing, a shelf carrying the prism, an elongated tubular support member secured to the shelf, a boss formed integrally with and inside of the casing, said boss having a cylindrical bore within which said tubular support member is slidably mounted, a shaft rotatably mounted on the boss and positioned within the tubular support member, said shaft, support member and bore being coaxial, and cooperating threaded portions on the shaft and support member whereby rotation of the shaft will move the shelf and prism to effect focusing adjustments of the telescope.

2,638,033
UNITARY CATADIOPTRIC OBJECTIVE LENS SYSTEM
Donald Robert Buchele, Cleveland, and William Martin Buchele, Toledo, Ohio
Application December 19, 1950, Serial No. 201,612
8 Claims. (Cl. 88—57)



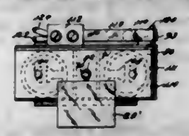
1. A unitary optical system comprising a mirror surface concave to the interior of said system, a positive power refracting surface concave to the interior of said system and also coaxial and concave to said mirror, a reflecting ring in the central area of said refracting surface and a light transmitting surface centrally of said mirrored surface, said refracting surface transmitting all incident pencils of light from an object, across the optical axis between the poles of said refracting surface and said mirror surface, from which said pencils of light are reflected to said mirror ring from which the pencils of light are reflected through said light transmitting portion.

2,638,034
THREE CONVERGENT COMPONENT OPTICAL OBJECTIVE
William Michael Wreathall, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company
Application July 16, 1951, Serial No. 236,949
In Great Britain July 17, 1950
13 Claims. (Cl. 88—57)



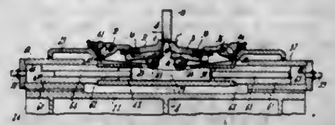
1. An optical objective corrected for spherical and chromatic aberrations, coma and astigmatism and having a curved short-conjugate field, and comprising a rear member having an overall axial length between 1.1 F and 2.2 F, where F is the equivalent focal length of the rear member, and consisting of at least three convergent components, of which the front component is of triplet form having a divergent element between two convergent elements, the most deeply curved of the internal contacts in the rear member having a radius of curvature between .7 F and 1.5 F, and a front member separated from the rear member by an air space whose axial length lies between zero and .8 F and consisting of a simple element having one surface slightly aspherical, the departure of such surface from the osculating sphere at the vertex of the surface at no point exceeding .06 F.

2,638,035
ELECTRICALLY CONTROLLED TILTABLE REFLECTING MIRROR DEVICE
William D. Macgeorge, Collegeville, and Charles E. Roessler, Jr., Philadelphia, Pa., assignors to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application January 29, 1951, Serial No. 208,289
5 Claims. (Cl. 88—92)



1. In optical systems, a primary support, two secondary supports, a tilting device mounted on the primary support, light reflective means mounted rigidly on the device for exposure to a projected light beam having a substantially fixed average median line of projection means biasing the tilting device toward said primary support to effect stable support of said tilting device and light reflective means in two mutually normal dimensions of the latter on the primary support out of contact with the secondary supports, in one attitude in space relative to such beam, whereby a primary reflection of such beam has an average median line fixed in space, electro-magnetic means cooperating with the tilting device and with the biasing means to effect two alternative secondary stable supports of the tilting device on the primary support stable in the same said two mutually normal dimensions of the light reflective means and the alternatively selected secondary supports, in two respective predetermined attitudes in space angularly divergent from each other and from the said one attitude, whereby each secondary reflection of such beam has an average median line fixed in space and each lies in a plane common with the average median line of said primary reflection and the other secondary reflection.

2,638,036
DOUBLE-ACTING GEAR SHAPING MACHINE
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application March 2, 1945, Serial No. 580,511
10 Claims. (Cl. 90—8)



1. In a gear shaping machine, a supporting structure, a carriage mounted to reciprocate on said supporting structure, a cutter holder pivoted to the cutter carriage, a shaping cutter secured to said holder having a cutting end which is movable into and out of a cutting path by movement of the holder about its pivotal connection with the carriage, a displacer carried by the carriage and movable relatively thereto having a cam surface on which the cutter holder bears arranged to cause shifting of the holder about its pivot according as the displacer is moved relatively to the carriage in one direction or the other, and means whereby the carriage is reciprocated and the displacer is moved relatively to the carriage when the carriage movement is reversed.

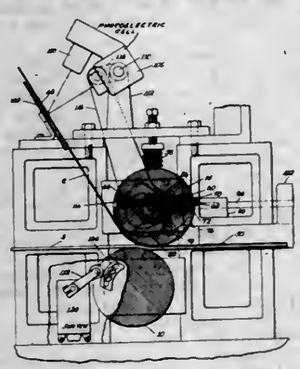
6. In a machine of the character described, a cutter holder having a recess of which the bounding wall is curved concentrically with an axis to form a bearing surface, a cutter mounted in said holder and having a body portion with a curved bounding surface complemental to said recess wall and engaging said bearing surface, an adjusting screw extending into said recess tangentially of the bounding wall, the cutter having a shoulder against which said screw abuts, whereby the screw is enabled to adjust the cutter about the axis of curvature of said wall, and means for securing the cutter to the holder in its various adjusted positions.

2,638,037

APPARATUS FOR FEEDING WEBS

Cutler D. Knowlton, Rockport, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a corporation of Massachusetts

Application August 29, 1947, Serial No. 771,283
11 Claims. (Cl. 93—36.6)



1. In a machine for performing successive operations on a web of sheet material having designs printed on successive sections thereof, mechanism for feeding the web into the machine, means for properly registering sections of the web with the machine comprising adjustable plaiting means, and means responsive to the length of each section of the web as it approaches the plaiting means for controlling the plaiting means to shorten the section by an amount corresponding to the excess in the length of the section above a predetermined length prior to being fed to the machine.

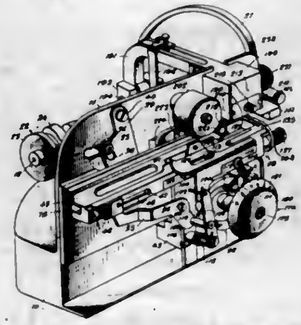
2,638,038

MACHINE FOR MARKING TAGS OF DIFFERENT STYLES

Alonzo K. Marsh, Ridgewood, and Joseph Welmont, Bogota, N. J., assignors to A. Kimball Company, New York, N. Y., a corporation of New York

Application October 3, 1946, Serial No. 700,922
21 Claims. (Cl. 93—87)

1. In a machine for printing successive tags of a strip, said machine comprising a supporting table along which the strip moves, a platen portion on one end of the table, independently movable guides extending along opposite edges of the table for preventing transverse displacement of the strip, cut-off mechanism at the end of the supporting table for severing the endmost tag of the strip, apparatus for adjusting the cut-off mechanism to accommodate different styles of tags, automatic mechanism for feeding the strip forward for a predetermined distance during each cycle of operation of the machine, means for adjusting the position of the guide at one side of the table, other means for adjusting the position of the guide on the other side of the table, and common operating mechanism for moving the cut-off adjusting apparatus and both of the guide adjusting means, said operating mechanism including an indexing head that moves the cut-off adjusting apparatus and the guide adjusting means into different positions that cause different combinations of adjustment of the guides with respect to one another and with respect to the cut-off mechanism, said indexing head having designations thereon for different styles of tags, each of which designations is set in a different position to produce the combination of guide positions and cut-off mechanism adjustment for the particular style of tag designated.



9. In a tag marking machine including a support with guides between which a strip of tags is fed to a marking station apparatus that adjusts the guides, transversely of the direction of movement of the strip, to accommodate tags of different style, cut-off mechanism located beyond the marking station and including a knife for severing the endmost tag from the strip, a fulcrum supporting one end of the knife, mechanism for rocking the knife about its fulcrum to bring the knife into position to sever the tag strip, and apparatus for adjusting the position of the fulcrum transversely of the direction of movement of the strip through the guides to accommodate the cut-off mechanism to strips and tags of different styles, and common control means that adjust both of said apparatus simultaneously to selected styles of tags.

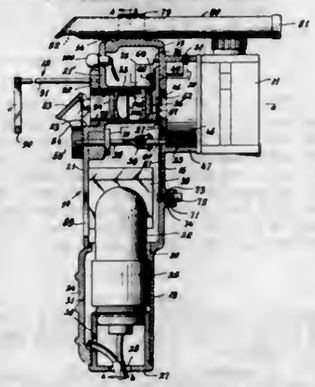
18. In a tag marking machine including a support for a strip of tags, a top guide along the support for guiding the upper edge of the strip, a lower guide on the other side of the support for guiding the bottom edge of the strip, feed mechanism including a reciprocating element, mechanism for operating said reciprocating element, a presser element for holding successive tags of the strip in position for cooperation with the reciprocating element of the feed mechanism, cut-off mechanism including a knife extending transversely of the strip, apparatus including a cam for moving the knife to accommodate it to tags of different styles, other apparatus including a cam for adjusting the position of the presser element lengthwise of the strip, other apparatus including a cam for limiting the stroke of the reciprocating element of the feed mechanism, other apparatus including a cam for adjusting the position of the bottom edge guide transversely of the support, other apparatus including a cam for adjusting the position of the top guide transversely of said support, and indexing means for indicating the setting of all of said cams.

2,638,039

AUTOMATIC PHOTOGRAPHIC UNIT HAVING SYNCHRONIZED SHUTTER AND LIGHT SOURCE

Gustav Bucky, New York, N. Y.

Application February 4, 1952, Serial No. 269,793
6 Claims. (Cl. 95—11.5)



1. In a unit including an objective lens and a lamp for illuminating an object to be photographed, the combination of a housing including a mount for said lens and tubular extension of the housing body constituting a grip for one of the user's hands to hold said camera during exposures, said lamp being mounted in said extension so as to project into said housing and to emit light rays through openings in the housing wall, a switch for said lamp and a shutter device accommodated in said housing, said shutter device including a shutting member and a capping member, said capping member having a position of rest and being reciprocable from said position in one direction so as to obstruct the path of rays passing said objective lens, and being reciprocable in the opposite direction so as to operate said switch, means tending to return said capping member to said position of rest, means to cock said shutting member, means to release said shutting member, said last mentioned means being so located as to be operative by said hand holding said grip, and a follower means connected to said shutting member and engageable with said capping member so as to shift said capping member in said one direction and then to release it during the cocking of said shutting member, and to shift said capping member in the other direction and, then, to release it during the release of said shutting member from cocked position.

2,638,040

APPARATUS FOR PRODUCING TYPE PROOF AND PHOTOPRINTS THEREOF

Joseph F. Murphy, West Roxbury, Mass., assignor to Lumitype Corporation, Roxbury, Mass., a corporation of Massachusetts

Application February 11, 1950, Serial No. 143,635
7 Claims. (Cl. 95—73)

1. In photo-printing apparatus of the type described, in combination with an enclosed housing having a light source distributed over the inner bottom section of the housing, a transparent bed-plate removably mounted within said housing over said light source, said transparent bed-plate having a top smooth surface with a series of parallel grooves having the same width and depth and spaced apart a distance not greater than the height of the smallest type to be used therewith, a type to be used with said bed-plate, comprising a transparent type plate element with a flat surface in surface contact with said surface of said bed-plate, said type

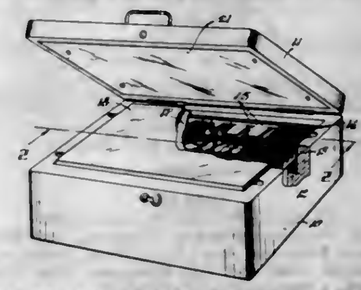


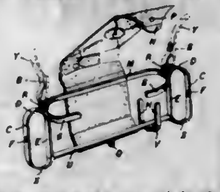
plate having an edge flange extending outwardly engaging and fitting into and adjustably positioned in any one of said grooves, said type plate element covering more than one groove and having a thin, opaque character on the surface of said type plate element opposite to that in contact with the surface of said bed-plate, and means including a cover for said housing for holding a sensitized sheet laid over the character mounted on said plate element in continuous and uniform surface contact therewith.

2,638,041

PORTABLE CAMERA SUPPORT

Theodor Horydczak, Washington, D. C.

Application November 7, 1951, Serial No. 255,239
7 Claims. (Cl. 95—86)



1. A portable camera support including a band forming a horizontal base, each end of said band being curved downwardly, then extending upwardly in a vertical position, then curved upwardly and then extending vertically downwardly to contact the base portion whereby a handle or finger loop is formed at each end of the support, a ring attached to the top of each of the finger loops or handles.

2,638,042

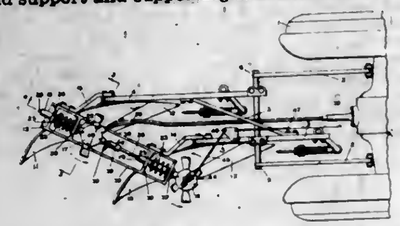
COMBINED PLOW AND SOIL PULVERIZER

Charles E. Barstow, Portland, Alva H. Barstow, Oceanlake, and Alva K. Barstow, Portland, Oreg.

Application April 16, 1947, Serial No. 741,754
11 Claims. (Cl. 97—38)

1. A soil cultivator comprising a substantially horizontal support, a substantially vertical shaft carrying a rotatable soil cultivating element,

drive means connected to said shaft for driving said element, support means slidably mounted on said support and supporting said shaft for lateral



rectilinear sliding displacement in a substantially horizontal direction while precluding pivotal displacement, and means biasing said shaft to a normal position relative to said support.

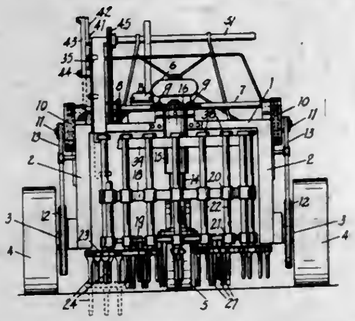
2,638,043

GROUND WORKING MACHINE

Carl E. Ferguson, Kendall Ferguson, and Robert Claire Ferguson, Eau Claire, Mich., assignors to Berrien Tool and Die Company, Eau Claire, Mich., a corporation of Michigan

Application June 1, 1950, Serial No. 165,482

17 Claims. (Cl. 97—44)



17. In a ground working machine, the combination with a carriage, of a turret mounted thereon for rotation on a vertical axis, means for driving said turret as the carriage is advanced, an annular series of multiple prong tools mounted on said turret for independent vertical reciprocation, said turret driving means being operative to rotate said tools at a peripheral speed approximately equal to the speed of advance of said carriage, the prongs of the tools having tubular tips and discharge openings above said tubular tips, and means located along the retreating side of said turret relative to the line of advance of said carriage for successively actuating said tools.

2,638,044

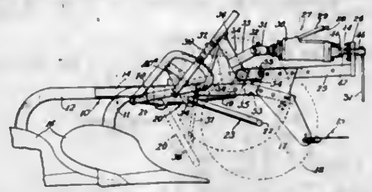
POWER-LIFT ATTACHMENT FOR IMPLEMENTS

Wayne G. Toland, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application December 22, 1948, Serial No. 66,739

3 Claims. (Cl. 97—46.27)

2. A remote control hydraulic ram attachment for an agricultural implement of the trailing type having a stationary part and a part movable to raise and lower the working tools, comprising means detachably connecting one end of the ram to the movable part, an internally threaded sleeve member rotatably carried by said stationary part, means for holding the sleeve member against axial displacement from the stationary part, an eye-bolt having its threaded shank receivable in said sleeve, means detachably connecting said bolt to the other end of the ram, means carried by



said stationary part accommodating axial movement of the bolt for holding said bolt against rotation, and means for rotating said sleeve to advance and retract the bolt, whereby motion may be transmitted from the eye-bolt through the ram and to the movable part to adjust the operating depth of the working tools independently of the operation of the ram unit.

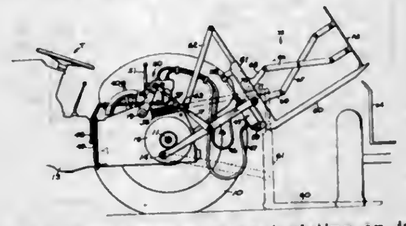
2,638,045

AUXILIARY HYDRAULIC LOAD CONTROL AND ACTUATOR FOR TRACTOR DRAWN IMPLEMENTS

Daniel C. Heitshu, Detroit, Mich., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application February 15, 1946, Serial No. 647,714

3 Claims. (Cl. 97—46.27)



1. In an apparatus for manipulating an implement having a movable control element thereon, the combination of a tractor, an hydraulic ram thereon, a connecting linkage on said tractor for connection to said implement and so arranged that the weight of the implement is applied to said ram, an hydraulic supply line for supplying fluid under pressure to said ram to cause raising of the linkage and connected implement, a manually controlled main valve for controlling admission of pressure fluid to said supply line, a drain line, an hydraulic actuator connected to the movable control element on the implement for movement independently of said ram and associated linkage, an actuator control valve connected to the actuator, said control valve having ports and having a manual selector for selectively moving the valve into a first position in which the ports connect the actuator to the hydraulic supply line, a second position in which the ports connect the actuator to the drain line, and a third position in which the ports are closed thereby blocking fluid flow to and from the actuator for positively positioning the movable control element connected to said actuator.

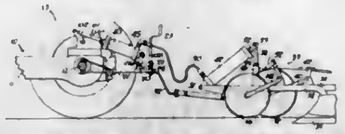
2,638,046

CONTROL MEANS FOR TRACTOR-CONNECTED IMPLEMENTS

Russel D. Acton, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Original application March 22, 1944, Serial No. 528,672. Divided and this application April 20, 1946, Serial No. 663,713

2 Claims. (Cl. 97—46.27)



1. In combination, a tractor including power-driven means selectively controllable for effecting operating excursions between opposite limits of a range of movement, an implement connected to the tractor and including a frame and an implement adjusting part adjustable on said frame, a readily detachable unit for adjusting the implement part by force applied by the tractor, said unit comprising a first device mounted upon the tractor and including a cylinder member and a piston member slidable therein, a second device mounted upon the implement and including a cylinder member and a piston member slidable therein, a flexible conduit connecting the devices, and force-transmitting means confined by said conduit and engaging said piston members, securing means for mounting one member of said second device on the implement frame, means connecting the other member of the second device and the implement part, securing means for mounting one of said members of the first device on the tractor, means connecting the power-driven means with the other member of the first device for shifting the same together with one member of the second device for adjusting the implement part, and manual means for adjusting one of the securing means for bodily adjustment of the one member of one of the associated of said devices to thereby alter the range of movement transmitted to the implement part.

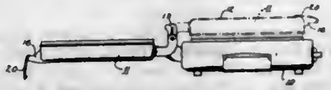
2,638,047

HANDLE MECHANISM

George E. Hanner, Mansfield, Ohio, assignor to Dominion Electric Corporation, a corporation of Ohio

Application December 13, 1948, Serial No. 64,998

4 Claims. (Cl. 99—340)



1. In a cooking device having upper and lower hingedly connected cooperating cooking units hingedly movable about a hinged axis from a closed position to an open position, said upper cooking unit having a vertically extending side surface and laterally extending top surface, a handle mechanism comprising a handle support bracket secured to said upper cooking unit, said handle support bracket comprising two spaced side members each having a first portion extending laterally away from said vertically extending side surface and a second portion overlapping said top surface, a handle member disposed between said two side members and substantially bridging the space therebetween, said handle member having a pivot end portion and a free end portion, pivot means for pivotally mounting said pivot end portion of the handle member to said side members with the pivot axis disposed at a distance from said vertically extending side surface and extending substantially parallel to said hinged axis, said free end portion overlapping said top surface and being swingably movable toward and away from said top surface.

2,638,048

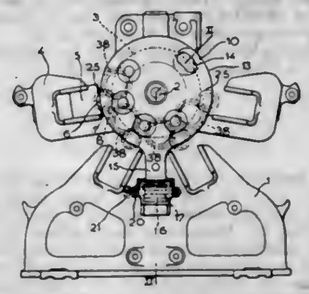
CONTROL DEVICE FOR PRINTING ROLLERS IN PRINTING MACHINES

Philibert Deck, Zurich, Switzerland

Application October 14, 1950, Serial No. 190,113

In France May 15, 1950

2 Claims. (Cl. 101—248)



1. A printing machine comprising a frame, a central cylinder journalled in said frame, a plurality of printing rollers peripherally engaging said cylinder and having gears disposed outwardly of said frame, a spindle coaxial with said cylinder and projecting outwardly from said frame, on the same side thereof as said gears, a toothed control wheel mounted on said spindle, a rotary disc mounted on said spindle outwardly of said wheel, casings supported by said disc and projecting inwardly therefrom, electric motors opposed to said casings respectively supported by the disc and extending outwardly therefrom, a fixed pin supported by and extending within each said casing parallelly to said spindle, two adjacent pinions mounted on said pin near the rotary disc and being in mesh with said wheel and with one of said printing roller gears, respectively, and a differential mechanism mounted on said pin inwardly from the pinions and having sun gears respectively connected to said pinions, a planetary carrier connected to one of said electric motors.

2,638,049

HAND STAMP

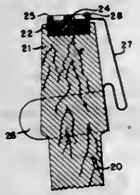
Paul A. MacPhee and George T. Brown, Jr., Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application February 15, 1950, Serial No. 144,365

15 Claims. (Cl. 101—327)

3. A printing device including, in combination, ink-impregnated resilient porous type having characters in relief thereon to form printing surfaces, thereby to make an inked impression on contact with record material, the printing surfaces of said characters forming a printing plane; and a shield mounted on the device and movable thereon both parallel to and normal

to said plane to cover and displace desired areas of the type printing surface, so that such covered



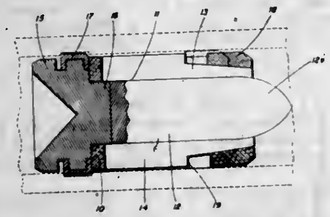
and displaced areas will not make a printing impression.

2,638,050
METHOD OF MAKING PRINTING ROLLS
William H. King, West Springfield, Mass., assignor to Multicolor Gravure Corp., Florence, Mass., a corporation of Massachusetts
Application May 28, 1952, Serial No. 290,590
4 Claims. (Cl. 101—401.2)



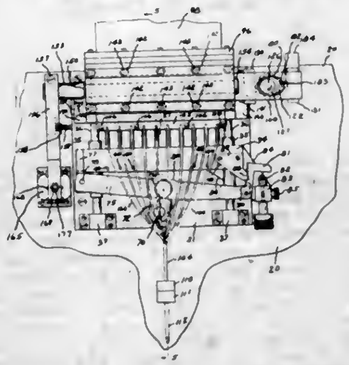
1. The method of making a printing roll for printing a zone of ink which progressively increases in density between opposite sides thereof consisting in, forming a multiplicity of uniform and disconnected ink-carrying depressions of uniform predetermined area and depth in the normal smooth surface of the roll body throughout an annular zone having an outer side spaced inwardly from an end of the roll body and an opposite inner side spaced longitudinally therefrom, progressively removing the surface of the roll body within the zone to reduce the area and depth of the depressions progressively from one side of the zone to the other side thereof, and removing the surface of the roll body between the end of the roll and the outer end of the zone to a plane substantially in the plane of the bottoms of the depressions.

2,638,051
SUBCALIBER PROJECTILE
Charles L. Critchfield, Chevy Chase, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application January 18, 1944, Serial No. 518,753
1 Claim. (Cl. 102—93)



A projectile comprising a subcaliber core, a base plug backing the core and having a forwardly protruding portion the same in diameter as the core, a rotating band of channel cross-section fitted on the base plug, and a cylindrical sleeve disposed tightly on the core, overlapping the forwardly protruding portion and abutting one of the flanges of the rotating band.

2,638,052
VALVE AND PUMP FOR METERING OUT MATERIAL FOR CAPSULATING MACHINES AND THE LIKE
Rex E. Moule, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application December 11, 1948, Serial No. 64,788
10 Claims. (Cl. 103—2)

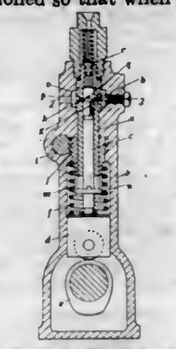


1. Apparatus of the class described comprising a block having a plurality of pump chambers, a plurality of pistons extending into said chambers, means intermittently reciprocating said pistons giving said pistons a dwell at the end of each stroke in each direction, discharge passages into which material is pumped, inlet passages from which material is drawn into said chambers, a slide valve having a plurality of each of two sets of ports, one set of ports being shaped to connect the discharge passages to the chambers and the other set being shaped to connect the inlet passages to the chambers, means intermittently reciprocating said slide valve giving said valve a dwell at the end of each stroke, an eccentric shaft in contact with said slide valve on the side thereof remote from said block, said eccentric shaft having eccentric cross-section opposite all of said discharge passages and opposite all of said inlet passages whereby when a rotative couple is exerted upon said eccentric shaft tending to turn it the slide valve is strongly urged against the block at all of the discharge and at all of the inlet passages, and means to exert such rotative couple tending to turn said eccentric shaft when the pistons are moving.

2,638,053
LIQUID FUEL INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES
Wilfrid Edward Walter Nicolls, Pinner, England, assignor to C. A. V. Limited, London, England
Application January 9, 1950, Serial No. 137,593
In Great Britain January 13, 1949
2 Claims. (Cl. 103—41)

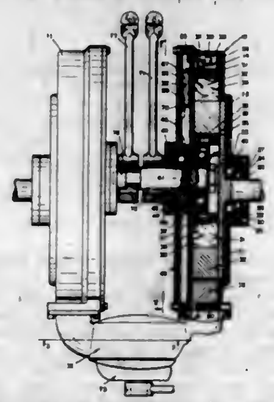
1. A liquid fuel pump having in combination a hollow body part provided with a fuel inlet passage, a barrel arranged in the hollow body part and provided with at least one main fuel inlet port and a restricted supplementary inlet port, both ports being in communication with the fuel inlet passage, and a plunger slidable in the barrel for closing both ports and discharging liquid fuel from the barrel, the restricted supplementary inlet port being disposed in relation to the main inlet port so that it is closed by

the plunger shortly after the main port has been closed thereby, and said supplementary inlet port being dimensioned so that when the pump speed



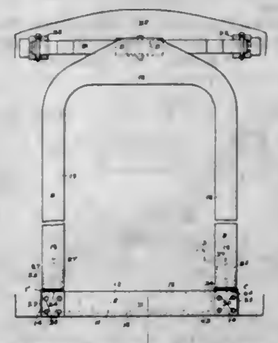
is high only a limited amount of fuel can escape therethrough whereas at lower pump speeds a greater amount of fuel can escape through said port.

2,638,054
VARIABLE FLUID DRIVE MECHANISM
Vernon O. Hartz, Glendale, Calif.
Application December 27, 1947, Serial No. 794,169
8 Claims. (Cl. 103—120)



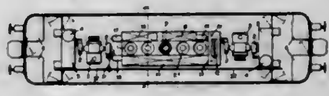
1. In a hydraulic transmission device, a housing having a circular chamber therein, a rotor within said chamber mounted eccentrically of the chamber, said rotor and said housing defining an annular control channel around the periphery of the rotor, said housing providing a pair of circumferentially spaced openings to said channel, a stationary partition mounted between said openings substantially to abut said rotor thereby to close off said channel, a plurality of rotor blades slidably mounted radially of said rotor, rotor blade retainer means maintaining the inner ends of said rotor blades in a circular path eccentric of the axis of the rotor and concentric with the housing as the rotor revolves, a circumferentially movable control block mounted adjustably for movement in a path concentric with the housing in said channel, said block extending the width and thickness of said channel and having a basic length to span the space between the outer ends of the adjacent rotor blades at substantially their point of minimum lateral separation, said block including means mounted on said block, movable into and out of near abutting relation with the ends of said rotor blades, and control means mounted to move said last-mentioned means into and out of near blade-abutting position at predetermined zones in the path of movement of said movable control block thereby to vary the effective length of said block.

2,638,055
RAILWAY CAR DIAPHRAGM FACE PLATE MOUNTING
James F. Monger, Chicago, Ill.
Application February 9, 1949, Serial No. 75,435
5 Claims. (Cl. 105—21)



1. In a vestibuled railway car, the combination with a buffer face plate at the end of the car provided with laterally extending wings at opposite sides thereof having their inner sides facing the body of the car; of a diaphragm face plate having spaced side members; a securing bracket fixed to the lower end of each side member, each bracket including a platelike section engaging the inner side of the corresponding wing, a horizontal portion supported on top of the buffer face plate, and a section upstanding from said platelike section and welded to the corresponding side member of the diaphragm face plate; and removable means extending through said wings and platelike sections of said brackets for securing the brackets to the buffer face plate.

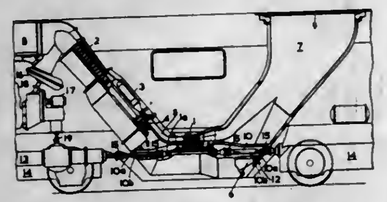
2,638,056
ELECTRIC LOCOMOTIVE
Léon Heidmann, Jeumont, France, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a French body corporate
Application July 14, 1947, Serial No. 760,881
In France August 1, 1946
11 Claims. (Cl. 105—49)



1. In an electric locomotive of the type having a plurality of traction motors, a central chest provided with doors, two lateral unventilated cabinets for traction control apparatus and a ventilated compartment for air-cooled resistances, means for improving the general lay-out, increas-

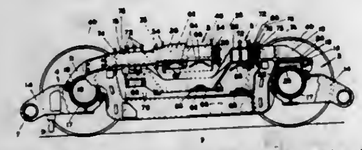
ing the efficiency of the cooling system and controlling automatically the forced air-flow through said compartment, comprising an upright ventilation channel located between said lateral cabinets and containing a plurality of individually driven fans, motors for driving said fans being connected in parallel and inserted into a ground connection of said traction motors whereby said fan-driving motors are controlled by the main current of the traction motors at starting the locomotive.

2,638,057
LOCOMOTIVE RAIL VEHICLE
Georges Henry Roesch, London, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Application February 7, 1949, Serial No. 74,914
In Great Britain February 13, 1948
2 Claims. (Cl. 105—62)



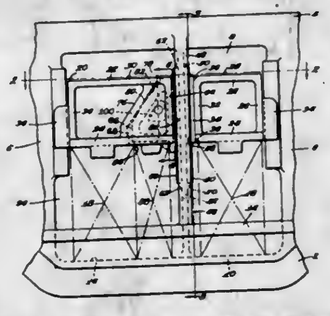
1. A locomotive rail vehicle comprising a chassis, two supporting trucks pivotably attached thereto at longitudinally spaced points thereon, each truck carrying transmission means to transmit drive to at least one axle on said truck, a gas driven axial flow power turbine supported from said chassis and between said trucks for rotation about a longitudinally extending axis, extensible shafting connecting said power turbine and said transmission means on each truck to transmit drive thereto, a turbo-compressor gas generator mounted above said chassis, and inlet and exhaust gas ducting forming with said power turbine a gas flow path having the general form of a V with one limb extending upwardly and forwardly and the other limb extending upwardly and rearwardly from said power turbine, said turbo compressor gas generator being arranged with its rotational axis lying along one of said limbs.

2,638,058
RAIL CAR TRUCK
Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application July 9, 1948, Serial No. 37,928
7 Claims. (Cl. 105—193)



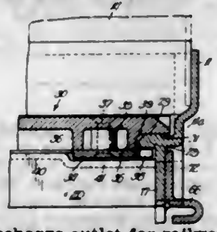
1. A rail car truck comprising a main frame having side frame members, a sub-frame between said side frame members extending transversely of said main frame, first resilient supporting means between said sub-frame and said main frame for cushioning said sub-frame for vertical movement relative to said main frame, second resilient means between said main frame and said sub-frame for cushioning lateral movement of the latter relative to said main frame, third resilient means between said main frame and said sub-frame for cushioning transverse movement of the latter relative to said main frame, a bolster extending transversely of said main frame and lying within said sub-frame, fourth resilient means between said sub-frame and said bolster for cushioning the latter for relative vertical movement with respect to said sub-frame, fifth resilient means between said main frame and said bolster for cushioning lateral movement of the latter relative to said main frame, and sixth resilient means between said main frame and said bolster for cushioning transverse movement of the latter relative to said main frame.

2,638,059
SNUBBED TRUCK
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 1, 1948, Serial No. 47,279
11 Claims. (Cl. 105—197)



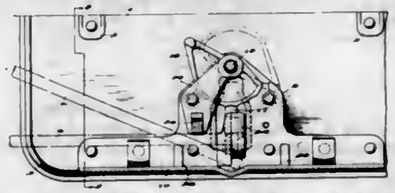
1. In a railway car truck, a side frame comprising spaced columns disposed at opposite sides and substantially equally spaced from the transverse vertical center plane of the frame, a friction panel between said columns disposed at one side of said plane, a bolster having a pair of legs in longitudinal alignment with the bolster, one of said legs being narrower than the other, the narrower leg extending between said panel and the column on the same side of said plane and frictionally engaging the adjacent side of said panel, the wider leg extending between said panel and the column at the opposite side of said plane, the wider leg having a plurality of friction shoe pockets spaced longitudinally of the bolster, a wedge surface in each pocket sloping toward said panel, a shoe in each pocket in wedge engagement with the wedge surface therein and in frictional engagement with the adjacent side of the panel, actuating springs for said shoes positioned adjacent said panel between the same and said last-mentioned column and compressed between respective shoes and a portion of the frame spaced vertically with respect to the bolster, and bolster-supporting springs between each leg and a portion of the frame therebelow, the bolster-supporting springs associated with the wider leg being located between said actuating springs and said last-mentioned column.

2,638,060
DISCHARGE OUTLET FOR RAILWAY CARS
George B. Dorey, Westmont, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1949, Serial No. 102,105
7 Claims. (Cl. 105—282)



1. In a discharge outlet for railway cars or the like having a discharge opening, in combination, a rectangular frame defining an opening registering with said discharge opening and including upstanding upper side walls and depending lower side walls spaced inwardly therefrom having horizontally disposed portions uniting the respective upper and lower side walls and forming runways extending inwardly beyond said lower side walls, a gate slidable on said runways for closing said opening in said frame, and a flange underneath each side of said gate extending underneath the respective runway to retain said gate on said runways.

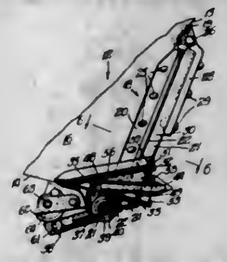
2,638,061
INDIVIDUALLY OPERATED DOOR FOR HOPPER CARS
Orville Ingram, Washington, D. C., assignor to Unitcast Corporation, Toledo, Ohio, a corporation of Ohio
Application May 25, 1949, Serial No. 95,362
6 Claims. (Cl. 105—308)



1. An individually operated door for a railway hopper car comprising a pair of pivotally mounted hooks for respectively supporting the door in partially closed and fully closed positions, a housing secured to the floor of the hopper in which said hooks are pivotally mounted, and a plate-like member secured to the outer face of the door having an opening through which said hooks project, said member having a portion projecting inwardly adjacent said opening and engaging said housing when the door is closed for partially supporting the door thereon.

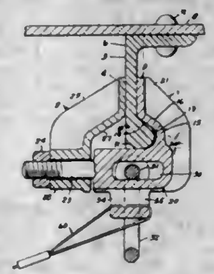
2,638,062
LATCHING DEVICE FOR HOPPER CARS
Albert E. Zimmer, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application July 21, 1949, Serial No. 105,915
2 Claims. (Cl. 105—308)

1. In a railway car having a hopper with a discharge opening and a door hinged along one side of said opening for closing the same, said hopper including a floor sloping downwardly towards said opening for directing lading thereto and said door being swingable to meet the lowermost edge of said floor in closed position, and a frame member having a flat wall underlying said



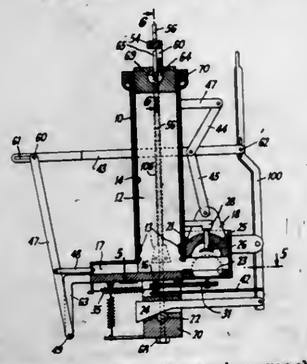
floor; in combination, a shouldered latch for holding said door in closed position, and support means pivotally mounting said latch beneath said frame member, said latch extending through the plane of said door for engagement with said door and having a reentrant portion straddling said frame member.

2,638,063
COMBINATION BEAM AND SHORING CLAMP
William H. Clark, San Mateo, Calif.
Application October 31, 1951, Serial No. 254,109
4 Claims. (Cl. 105—369)



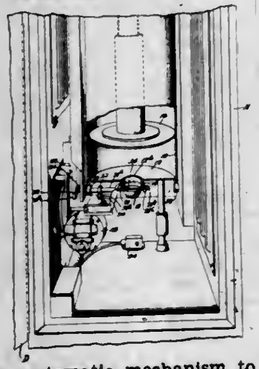
1. A combination beam and shoring clamp for use with a bulb angle having a flange adapted to be secured to a structure, a web extending at right angles to said flange and a bulb formed along the free edge of said web opposite said flange; said clamp comprising a pair of opposed jaws swivelly connected together and adapted to receive said web therebetween, means for tightening said jaws on said web with the opposed gripping surfaces of said jaws respectively engaging the opposite sides of said web, one of said jaws including a body portion extending transversely of said web and closely adjacent said bulb when said clamp is in clamped position on said angle, a pair of openings in said body portion extending at right angles to each other for receiving connecting elements therethrough for securing perpendicularly extending lines to said clamp, one of said openings being positioned closely adjacent said bulb and extending in a direction longitudinally of said angle and the other of said openings being spaced outwardly of said one opening along a line coplanar with said web, said means including an elongated threaded element carried by said body and generally coplanar with said one opening.

2,638,064
ICE CREAM DISPENSING MACHINE
Arthur J. Murphy, New York, N. Y., assignor of one-half to S. Lawrence Atkins, New York, N. Y.
Application October 30, 1948, Serial No. 57,497
8 Claims. (Cl. 107—8)



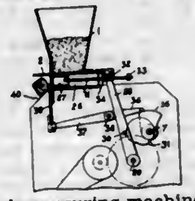
5. In an ice cream dispensing machine, in combination, a container for bulk ice cream, a separable mold on one side of said container and including a horizontally movable part which opens to permit the molded cream to drop therefrom, a plunger-type cutter in alignment with said mold and adapted in a condition of rest to occupy a position on the other side of said container, feeding mechanism for forcing a portion of the cream in said container to occupy a position where it can be severed and moved by said cutter into said mold, and means for intermittently operating said mold part and said feeding mechanism, said means including a manually operable lever and separate linkages coupling said lever at different points in the length thereof to said mold and cutter.

2,638,065
MECHANISM FOR MAKING AND DEPOSITING BALLS OF ICE CREAM OR THE LIKE
Robert G. Tarr, Villa Park, Ill., assignor of one-half to Jack C. Webb, Chicago, Ill., and one-half to Taft Moody, Memphis, Tenn.
Application July 16, 1949, Serial No. 105,222
10 Claims. (Cl. 107—8)



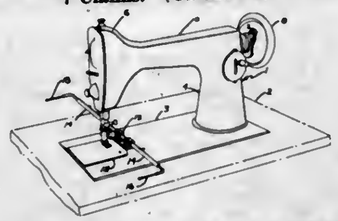
1. In an automatic mechanism to form and deposit ice cream balls or the like, an ice cream cup having an interior defining a surface of revolution, an arcuate knife having a radius of curvature corresponding to the interior surface of the cup, means supporting the knife in mating relation with the interior of the cup, means operable to rotate the cup from an upright position to an inverted position and cause dwell thereof in the inverted position, and means operable to rotate the knife over the space defined by the cup while the cup is being rotated and during the dwell thereof whereby the interior of the cup is traversed by the knife while in inverted position.

2,638,066
DOUGH MEASURING MACHINE
Willem de Ridder, The Hague, Netherlands
Application December 4, 1947, Serial No. 789,731
In the Netherlands February 19, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 19, 1966
3 Claims. (Cl. 107—15)



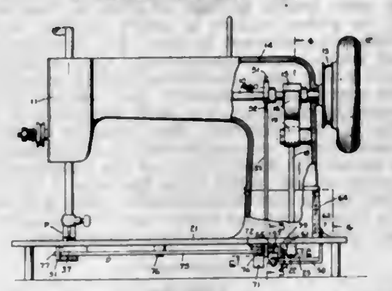
1. In a dough measuring machine, a dough receptacle having an outlet therefrom, a suction pressing and measuring chamber in communication with said opening in said receptacle, a piston slidably arranged in said chamber, an inlet valve slidably arranged between said receptacle and said chamber, an outlet valve slidably arranged at an end of said chamber, actuating means for said piston and said inlet and outlet valves, timing means for said actuating means, and lost motion means incorporated in said actuating means for said piston whereby said inlet valve is actuatable both in an opening and closing direction prior to actuation of said piston.

2,638,067
SEWING MACHINE ATTACHMENT
Robert Toombs Cozart, Jr., Goldsboro, N. C.
Application December 9, 1947, Serial No. 790,476
7 Claims. (Cl. 112—2)



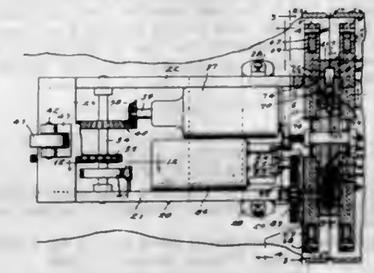
3. In a sewing machine having a table and a base plate set therein and substantially flush therewith, a tape running attachment comprising an arm parallel to the line of feed of the machine secured above the base of the machine, a horn extending substantially horizontally from each end of the arm beyond the line of feed to receive a stretch of a garment and tape and hold it in an extended position in the line of feed, said horn extending at an obtuse angle from the arm, and a sleeve rotatable on said horn to facilitate movement of the garment and tape on the horn.

2,638,068
ADJUSTABLE SEWING MACHINE FEED
Joseph Gottlieb, Jersey City, Carl Woessner, Bloomfield, and Ludwig Eickemeyer, Union, N. J., assignors to Gibraltar Manufacturing Co., Inc., Jersey City, N. J., a corporation of New Jersey
Application September 28, 1949, Serial No. 118,272
6 Claims. (Cl. 112—210)



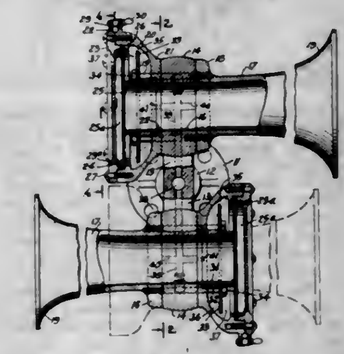
1. In a sewing machine of the class described, a main rotating shaft, an eccentric on said shaft, an actuator in engagement with said eccentric whereby rotation of said eccentric reciprocates said actuator, a pin on said actuator, a guide comprising a slotted member in which a part of said pin is mounted, means for moving said guide whereby to rotate said actuator relatively to said eccentric to determine the axis of reciprocation of said actuator, a feed dog, a feed slide for actuating said feed dog, means mounting said feed slide for sliding movement in a predetermined axis, a slotted member formed as an integral part of said feed slide, and a part of the said pin moving in the slot of said slotted member for reciprocating the feed slide when the axis of reciprocation of said actuator is angular to the axis of said slot.

2,638,069
PIPE ALIGNING DEVICE
Herbert A. Mearns, Elkins, W. Va.
Application July 6, 1950, Serial No. 172,327
2 Claims. (Cl. 113—103)



1. A pipe aligning and clamping device for use in welding together the abutting ends of a pair of pipe sections comprising a mobile frame, pipe clamping means comprising a plurality of arcuate shoes adapted to engage the interior of one pipe section carried by said frame engageable with one pipe section, a second pipe clamping means comprising a plurality of arcuate shoes adapted to engage the interior of the other pipe section carried by said frame in spaced relation to said first clamping means, a clamping means operator engaging between said clamping means, said clamping means operator comprising a pair of spaced ring members having spiral teeth on their outer faces, a ring gear mounted coaxially and in engagement with said ring members, a plurality of radially disposed guides carried by said frame, a plurality of reciprocal movable slide rods having spiral grooves in their inner faces mounted in said guide members, said slide rods being in engagement with each ring member, means connecting each shoe to and between two adjacent slide rods, spring loaded balls positioned between said ring gear and each ring member to provide an over-running clutch between said operator and said first and second clamping means, and driving means for said operator.

2,638,070
SOUND PRODUCING DEVICE FOR SIGNALING PURPOSES
Robert E. Swanson, Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Nathan Manufacturing Corp., a corporation of New York
Application March 28, 1950, Serial No. 152,333
16 Claims. (Cl. 116—142)

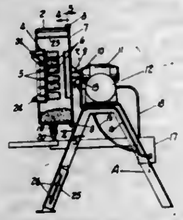


1. In a sound producing device, a base, a diaphragm unit at one side of the base and a horn bell at the opposite side of the base, the base having a bore in continuation of the inside of the horn bell and forming a resonant air column therewith, one end of the column being closed by the diaphragm unit, the diaphragm unit and the horn bell being interchangeable.

2,638,071
MACHINE FOR COATING CONFECTIONS
Edwin J. Otken, New York, N. Y., assignor to Good Humor Corporation, Brooklyn, N. Y., a corporation
Application November 10, 1948, Serial No. 59,315
38 Claims. (Cl. 118—24)

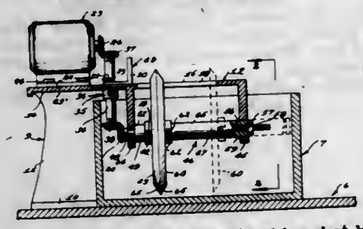
1. A machine for coating confection bodies comprising a stand, a drum, thereon, means for rotating the drum, devices in the drum to engage coating material at the lowermost portion of the drum and elevate and spill said material gravitatingly from the upper portion of the drum, and a holder detachably mounted on the drum to

rotate therewith and having means for supporting confection bodies in the drum in the path of



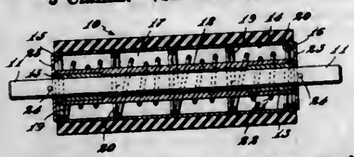
downward spilling movement of the coating material.

2,638,072
GLUE APPLICATOR
Cyril W. Hollar, Hickory, N. C.
Application July 7, 1950, Serial No. 172,589
5 Claims. (Cl. 118—222)



1. In a fluid applicator, a vertical bracket having a lower end arranged to rest upon a support, a horizontal work-supporting plate mounted on and extending from one side of the bracket at a level above the lower end of the bracket, said plate being formed with a transverse opening, said horizontal plate having vertical arms at opposite sides of said opening and depending therefrom, a transverse shaft journaled in and extending between lower portions of said arms, applicator disc means mounted on said shaft between said arms and rising through said transverse opening, and a fluid container removably mounted on said support at one side of said bracket into which said arms, said shaft, and said applicator disk means depend, said fluid container being otherwise unconnected with said bracket, said plate, said vertical arms, and said shaft.

2,638,073
ADHESIVE SUPPLY ROLLER FOR LABELING MACHINE PICKERS
Sidney T. Carter, Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application July 11, 1950, Serial No. 173,090
5 Claims. (Cl. 118—263)



1. In combination with a labeling machine picker having a surface designed to receive a coating of gum while said surface lies in either of one or the other, respectively, of two parallel planes, a roll for applying gum to said picker surface and a shaft on which the roll is mounted, the axis of the roll-shaft lying in a single predetermined plane, which is spaced from but parallel to the gum-receiving surface of the picker whether the gum-receiving surface of the picker occupies one or the other of said gum-receiving positions, the roll being of an axial length at least as great as the width of the picker surface to which the gum is applied, characterized in that the gum-applying roll comprises a substantially rigid cylindrical shell whose outer peripheral surface constitutes the gum-applying element, and resilient means normally centering the shell relatively to the axis of the roll-shaft, said resilient centering means being so constructed and arranged as to permit the shell to contact the gum-receiving surface of the picker while the axis of the roll-shaft lies in said predetermined plane and when the picker occupies either one or the other of said gum-receiving positions, respectively.

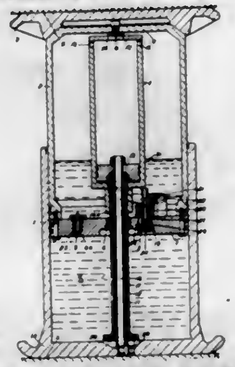
2,638,074
MECHANICAL PENCIL WITH SPIRAL FEEDING MEANS
Hugo S. Hasselquist, Oak Park, Ill., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application September 3, 1948, Serial No. 47,610
1 Claim. (Cl. 120—18)



In a mechanical pencil, a barrel, a lead supporting and guiding spiral therein, a tip on the front end of the barrel, means in the tip for supporting the front end of the spiral, said spiral projecting beyond the rear end of the barrel, lead feeding means in the barrel having a portion engageable with the spiral to feed the lead, said feeding means having a spiral engaging portion, a lead engaging portion, and an outwardly and rearwardly extending lug, and a collar on the projecting rear end of the spiral disposed in abutting relation to the rear end of the barrel, said collar having a tapered surface engageable with the lug of the lead feeding means when said means is retracted to lift the lead engaging portion thereof out of the spiral, said barrel having a surface on its rear end engaging the lug to move the lead engaging portion of the lead feeding means to operative position.

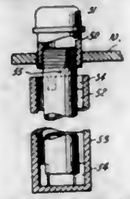
2,638,075
PNEUMATICALLY CONTROLLED HYDRAULIC PROP
John Maurice Towler, Rodley, England, assignor of one-half to Mavor & Coulson, Limited, Glasgow, Scotland
Application December 2, 1949, Serial No. 130,839
In Great Britain March 6, 1948
16 Claims. (Cl. 121—40)

1. An extensible and contractible prop comprising a hydraulic cylinder-and-ram assembly the main components of which are a cylinder and a hollow ram in telescopic relation, a space enclosed by the cylinder and ram components being filled with a hydraulic fluid, a normally closed check valve in the ram component, said valve being adapted to open in the direction towards said hydraulic-fluid-filled space and when opened forming a passage for the hydraulic fluid from one of said components to the other, a pneumatic control device mounted inside one of said components and co-operating with said check valve, means for conducting pneumatic fluid into said device to actuate it so that it forces the check valve to open and release hydraulic fluid from the hydraulic-fluid-filled space, the control device in this event engaging



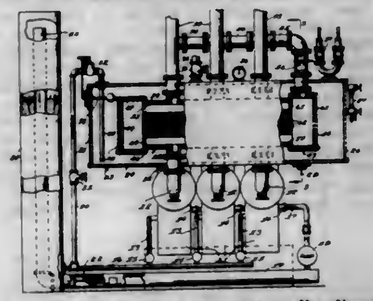
the component containing it and thus forcing the prop to contract, and an outlet for the pneumatic fluid from said device into the interior of one of said components to apply pneumatic pressure to hydraulic fluid in this one of the components in order to cause this fluid to force said valve to open so that the hydraulic fluid flowing through the valve into said space will force the prop to extend.

2,638,076
ENGINE CRANKCASE AND FILLER DEVICE
John C. Sionneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware
Original application March 14, 1946, Serial No. 654,427. Divided and this application January 5, 1948, Serial No. 637
2 Claims. (Cl. 121—194)



1. In combination, an engine crankcase in which a variable pressure is exerted while the engine is running, and means for maintaining a substantial seal of the interior of said crankcase against outside atmosphere while oil is being introduced into the crankcase, said means comprising, an elongate imperforate open-ended filling tube extending through a wall of the crankcase and having a generally vertically disposed portion projecting a substantial distance into the interior of the crankcase, an elongate imperforate oil trap sleeve surrounding the vertical portion of the tube within the crankcase, the upper end of the sleeve being open and terminating in the interior of the crankcase, the lower end of the sleeve being closed, the open lower end of the tube being disposed a substantial distance below the open upper end of the sleeve, said sleeve containing oil at all times and forming with the tube a crankcase seal against the outside atmosphere, and the tube having a single small air vent in its wall within the crankcase and above the upper end of the sleeve.

2,638,077
BOILER
Kenneth N. Smith, Springfield, and August L. Oberbeck, Jefferson City, Mo.
Application August 26, 1949, Serial No. 112,576
2 Claims. (Cl. 122—149)

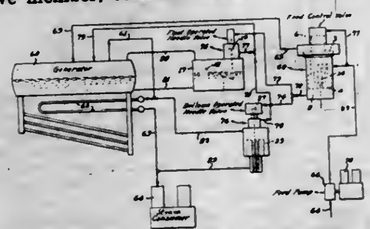


1. A boiler comprising a horizontally disposed closed ended hollow cylindrical body, a hollow closed ended cylindrical core disposed longitudinally of and within said body and spaced from said body, a vertically disposed closed shell arranged exteriorly of each of the closed ends of said core and secured thereto, a plurality of open ended tubes positioned longitudinally of and within said core and each having the open ends extending through the adjacent closed end of said core and in communication with the adjacent vertically disposed shell, a conduit extending longitudinally through said core adjacent the bottom thereof and having one end in communication with one of said vertically disposed shells, a plurality of spaced inlet conduits extending transversely through said body and in communication with said conduit for receiving hot gases, a second conduit extending longitudinally through said core adjacent the top thereof and having one end in communication with the other of said vertically disposed shells, a plurality of spaced outlet conduits extending transversely through said body and in communication with said second conduit for discharging hot gases, a vertically disposed intake pipe positioned within said body adjacent one end thereof and having the lower end spaced from the bottom of said body for introducing water into said body, a third conduit extending vertically from the top of said body intermediate its ends for discharging the steam therefrom, and a bypass conduit positioned exteriorly of said body and having one end connected to one of said outlet conduits and having the other end in communication with the top of said one of the vertically disposed shells.

2,638,078
LIQUID LEVEL REGULATOR
Harold Hillier, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir Limited, Cathcart, Glasgow, Scotland, a corporation of Great Britain
Application January 7, 1947, Serial No. 720,663
In Great Britain January 7, 1946
1 Claim. (Cl. 122—451.2)

In a steam generator installation including a steam generator comprising a steam and water

drum, a steam superheater, a steam consumer, conduit means for supplying steam from the steam generator to the steam superheater, a conduit for delivering superheated steam from the steam superheater to the steam consumer, means responsive to changes in the level of water in the steam and water drum of the generator, means responsive to changes in the pressure drop between the steam supplied to the superheater through said conduit means and the superheated steam delivered from the steam superheater through said conduit to the steam consumer, a feed water control valve for controlling the flow of feed water from a source of supply to the steam generator, said feed water control valve including a housing having inlet and outlet connections for the flow of feed water and having therein a valve seat between said connections, a movable valve member cooperating with said seat and arranged to be moved from its seat by the pressure of the feed water supplied to the inlet connection, a cylinder in said housing defining therewith a control chamber having a piston therein operatively connected with said valve member, conduit means for bleeding feed



water under the pressure of the inlet connection into said control chamber, the improvement comprising a pair of water discharge conduits connected into said control chamber for bleeding water therefrom to in turn vary the pressure therein for effecting operation of said piston and valve member, a control valve in each of said water discharge conduits for controlling the water bled through said discharge conduits, one of said control valves being operatively connected with and responsive to the operation of said water level responsive means, and the other of said control valves being operatively associated with and responsive to the operation of said means responsive to changes in the pressure drop between the steam supplied from the steam generator to the steam superheater and the superheated steam delivered from the steam superheater and conducted to the steam consumer, whereby the rate at which water is bled from said control chamber through the control valves in said conduits and the rate of water supply to the generator are controlled by the combined action of the means responsive to changes in the level of the water in the steam generator and the means responsive to changes in pressure drop across the steam superheater.

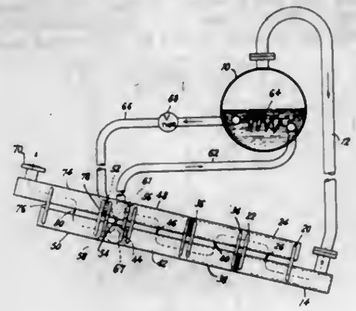
2,638,079

VAPOR GENERATOR AND MULTIPASS SUPERHEATER WITH A VAPOR TEMPERATURE CONTROL SYSTEM

Stoddard S. Waldron, Levittown, N. Y., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application November 16, 1950, Serial No. 195,971
8 Claims. (Cl. 122—476)

1. In a vapor superheater, an arrangement of tubular elements forming at least three vapor passes across a heating zone, said passes being connected for series flow of the vapor across said zone, an attemperator connected in parallel relative to the tubular elements in an inter-



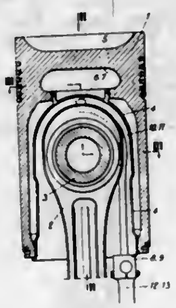
mediate pass of vapor flow, and means for varying the division of vapor flow between said intermediate pass and the attemperator to maintain an optimum vapor temperature at the outlet of the superheater.

2,638,080

PISTON COOLING FOR INTERNAL-COMBUSTION ENGINES

Gustav Pielstick, Saint Germain-en-Laye, France

Application December 30, 1950, Serial No. 203,583
In France May 15, 1950
1 Claim. (Cl. 123—41.35)



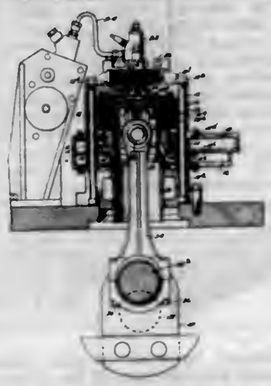
In a piston assembly for an internal combustion engine comprising a piston of a usual type, a connecting rod and a piston pin connecting the piston and the connecting rod, an independent inner removable substantially bell-shaped thin walled jacket means with a solid upper portion removably located inside said piston and pivoted about said piston pin, said jacket means defining a completely closed cooling chamber in the upper part of said piston above said piston pin, duct means in said jacket means leading into and out of said cooling chamber, and fluid-intake and outlet connections at the lower end of said jacket member, providing for a continuous and controlled flow of cooling fluid in said cooling chamber, the said jacket with its related fluid ducts and connections constituting a complete and single assembly adapted for insertion in said piston.

2,638,081

TWO-CYCLE SCAVENGING INTERNAL-COMBUSTION ENGINE

Ernst W. Spannhake, Park Forest, Ill., assignor to Barnes & Reinecke, Inc., Chicago, Ill., a corporation of Delaware

Application January 24, 1950, Serial No. 140,285
13 Claims. (Cl. 123—65)



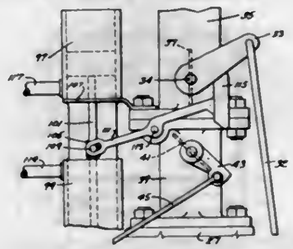
3. In a two-cycle internal combustion engine the improvement comprising a cylinder, a piston in the cylinder having a symmetrically dished face with a symmetrical centrally disposed flow-directing protuberance and radial vanes symmetrically disposed about the protuberance, means operative to confine the piston to reciprocating movements of predetermined throw, a plurality of intake ports arranged symmetrically about the cylinder adjacent one limit of piston throw and adapted to direct air in a non-circumferential direction against the face of the piston, and a plurality of exhaust ports arranged symmetrically about the cylinder adjacent the intake ports on the side opposite said limit of piston throw, the exhaust ports being adapted to receive air flowing in a primarily axially downward direction.

2,638,082

THROTTLE CONTROL MEANS

James E. Dillard, Memphis, Tenn.

Application January 14, 1950, Serial No. 138,627
10 Claims. (Cl. 123—103)



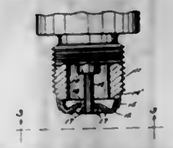
1. In combination with an internal combustion engine having fuel induction pipe means, a pair of valves mounted in spaced relation in said pipe means movable to control fuel flow through said pipe means, operating means including a governor coupled to one of said valves, independent operating means coupled to the other said valve, valve immobilizing means shiftable from a position in which said immobilizing means restrainingly engage one of said operating means to a second position in which said immobilizing means restrainingly engage the other said operating means and return, each said restraining engagement limiting operation of the operating means engaged to substantially immobilize the valve coupled thereto without limiting the operation of the other said operating means, and control means for selectively shifting said immobilizing means from the first said position to said second position and return.

2,638,083

SPARK PLUG

Harry Lewis, Cleveland, Ohio

Application November 9, 1949, Serial No. 126,318
1 Claim. (Cl. 123—169)



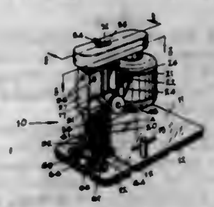
A spark plug having a body portion, an annular extension depending from said body portion and adapted to seat in the combustion chamber wall of an internal combustion engine, an annular flange of reduced thickness depending from said extension and tapering inwardly and downwardly from said extension whereby to provide a downwardly facing annular shoulder at the meeting plane of said extension and said flange, said shoulder lying in a transverse plane, an outer electrode consisting of a saucer-like disk having a central aperture therein, the peripheral edge of said disk being upwardly and outwardly inclined and lying within and in contact with said annular flange, and being likewise in contact with said shoulder, said disk having a plurality of parallel-edged slots extending radially outwardly from said central aperture towards, but short of, said peripheral edge, whereby to define a plurality of segments surrounding the said central aperture, and extending inwardly from said edge, and an inner electrode electrically insulated from said outer electrode and having a part thereof extending into said central aperture, said segments being curved rearwardly towards the spark plug body, and then reversibly inwardly towards the said inner electrode.

2,638,084

METHOD AND APPARATUS FOR DRILLING GLASS SHEETS

Eli H. McLaughlin, Toledo, Ohio

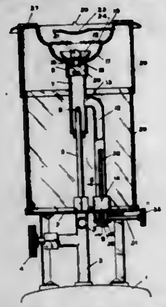
Application December 29, 1951, Serial No. 264,077
5 Claims. (Cl. 125—20)



1. An apparatus adapted to be supported on a glass sheet or the like for drilling holes therein comprising, a coolant container over said sheet,

a housing disposed above said container, a hollow, rotary drill spindle journaled in said housing, a tube-like drill tool attached to and communicating with said spindle, a conduit between said container and an opening in said housing, means internally of said housing for delivering a coolant from said opening to said drill tool, and means for lowering said tube-like drill tool into said container and onto said sheet.

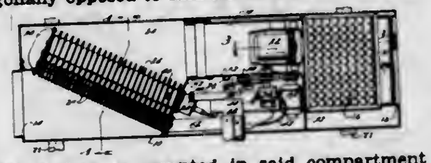
2,638,085
COMBINATION MANTLE LAMP AND GAS STOVE
Noel Guedon, Newberg, Oreg.
Application December 22, 1950, Serial No. 202,205
4 Claims. (Cl. 126—40)



4. The combination of a hollow base, a transparent shade above the base, a vertically slidable casing mounted on the upper end of the transparent shade, the slidable casing having a top formed with a central depression with a central opening, a cup-like seat formed with a central opening and mounted in the bottom of the depression, a ball valve supported in the seat, a mixing chamber secured to the bottom wall of the depression, lantern burners communicating with and depending from the mixing chamber, an air inlet pipe communicating with and attached to and movable with the mixing chamber, a gaseous fuel supply pipe extending from the hollow base and through the bottom of the transparent shade and into the mixing chamber, the mixing chamber being slidable on the gaseous fuel supply pipe, a nozzle on the upper end of the gaseous fuel pipe, and means secured to the bottom of the transparent shade for lowering the mixing chamber whereby the nozzle can be projected through the opening in the cup-like seat to unseat the valve and supply gaseous mixture to the depression below the foraminous partition for heating purposes and cut off the supply of gaseous mixture to the lantern burners.

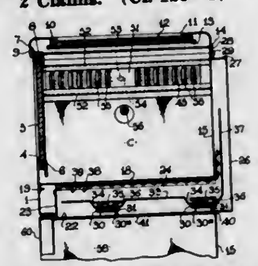
2,638,086
AIR HEATING FURNACE
Thomas C. Gleason and Robert H. Smith, Detroit, and Maynard J. Isley, Berkley, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 30, 1950, Serial No. 171,452
3 Claims. (Cl. 126—110)

1. A furnace comprising an elongated straight duct-like casing of substantially uniform cross sectional area throughout its length, said casing having a width dimension in excess of its heighth and a length substantially in excess of its width and including side, bottom, top and end walls defining said casing, said casing having an air inlet and an air outlet in the respective opposite end portions thereof, means defining an air passage extending longitudinally of said casing and the major portion of which is disposed on one side of the longitudinal center line of the casing and connected at one end thereof with said inlet, an axial flow type fan located in said passage and operable to draw air from said inlet and impel such air longitudinally through said passage, a fuel burner and combustion air blowers disposed on the other side of the longitudinal center line of the casing, transversely extending partition means cooperating with a portion of said walls to define a heat exchange compartment within said casing between said passage and the end portion containing said air outlet, said passage being connected with said compartment substantially diagonally opposed to said air outlet, an elongated



heat exchanger mounted in said compartment in substantial alignment with the other diagonal of said heat exchange compartment, said heat exchanger comprising a finned combustion tube having one end thereof terminating adjacent said partition means, a plurality of relatively small finned tubes extending in close proximity to and parallel to said combustion tube and terminating adjacent said partition means, a manifold operatively connecting the ends of said tubes remote from said partition means, said fuel burner communicating with said combustion tube, one of said combustion air blowers being operatively connected to said combustion tube and the other of said combustion air blowers being operatively connected to said small tubes for the withdrawal of the products of combustion therefrom, said axial flow type fan being operable to impel air from said inlet, through said passage and heat exchange compartment and discharge such air from said outlet.

2,638,087
INFANT INCUBATOR
Ralph Livsey, Shaker Heights, Ohio
Application October 18, 1949, Serial No. 122,088
2 Claims. (Cl. 128—1)



1. In an incubator of the character described, a cabinet having a compartment adapted to receive an infant, said compartment being defined by end walls, an imperforate non-combustible bottom, an imperforate non-combustible rear wall, and a closure lid, and means for radiating heat to said bottom and rear wall without dan-

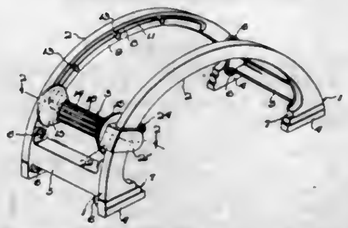
ger of transmission of sparks into said compartment, said means comprising a unit disposed below said bottom and having electrical heating elements and a plate having an extended heat radiating surface interposed between said elements and said bottom, said unit being out of contact with said bottom, whereby heat is radiated to said bottom through an air space, said cabinet being provided with spaced tracks, said unit being slidable on said tracks and being removable bodily from said cabinet, said unit being further provided with a vertical rear wall, in parallel spaced relation to said first-named rear wall, and said unit rear wall being provided with flanges adapted to be screwed to said first-named rear wall.

2,638,088
APPLIANCE FOR MASSAGING AND EXERCISING HUMAN FEET
Robert F. Johnson, Bedford, Va.
Application November 24, 1950, Serial No. 197,464
3 Claims. (Cl. 128—25)



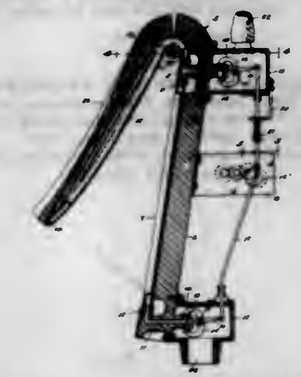
1. In a foot exerciser, a pair of substantially parallel bars spaced from each other, a third bar extending between said parallel bars and fixedly connected at its ends to said parallel bars at points spaced from the ends of the parallel bars, all of said bars having flat undersides arranged to rest upon a supporting surface, all of said bars having transversely rounded upper surfaces upon which feet are adapted to be rocked for exercise, the rounded upper surface of said third bar having longitudinally rounded hump means rising therefrom with which the inner and outer sides of arch portions of feet are adapted to be engaged while rocking feet on the upper surface of said third bar.

2,638,089
FOOT EXERCISER
Charles E. M. Murphy, Bellerose, N. Y.
Application January 12, 1950, Serial No. 138,449
7 Claims. (Cl. 128—57)



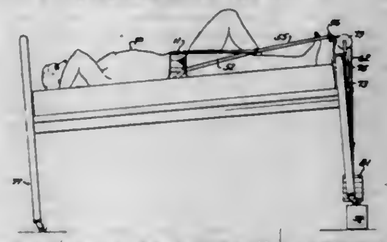
2. An exerciser of the character described, comprising a base structure, a pair of coaxial arcuate shaped roller supported members secured to opposite sides of the base, each of said members having a plurality of recesses formed therein at spaced intervals in the vicinity of its arcuate peripheral position, a foot engaging roller, and means associated with the roller adapted to be selectively seated in opposite recesses of said supports, whereby to vary the height of the roller vertically of the plane of the base, and means associated with the roller to vary its rotative resistance.

2,638,090
MASSAGING DEVICE
John F. Nantz, Washington, D. C.
Application February 5, 1952, Serial No. 270,050
5 Claims. (Cl. 128—60)



1. A foot massaging device comprising a body including a stationary section and a movable section between which the foot is positioned, means for urging the movable section towards the stationary section clamping the foot therebetween, flexible tubes covering the inner surfaces of the sections contacting with the foot positioned within the body, and means for intermittently admitting and exhausting fluid from the device expanding said tubes against the foot.

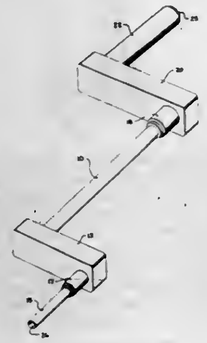
2,638,091
PELVIC TRACTION BELT
Samuel Varco, Buffalo, N. Y.
Application September 11, 1951, Serial No. 246,019
9 Claims. (Cl. 128—75)



9. A pelvic traction belt for the treatment of low back injuries in human beings, comprising an abdominal band adapted to encircle the waist of a patient, said band having secured thereto ties for tightening the band around the waist, said band being of such width as to overlie the pelvic crests and lower vertebrae and also to extend below the said pelvic crests, pairs of traction straps connected to said band at each of the lateral portions thereof and being spaced at the points of connection to lie directly in front and back of the pelvic crests, a pair of tension transmitting straps secured to the band and extending angularly from the lower edge thereof toward the upper edge and toward the back of the band, the

back strap of each pair of traction straps being connected to one of said tension transmitting straps, each of said pairs of traction straps converging from their points of connection to the band toward an apex which, when the band is applied, will be below the thigh of the patient, said pairs of traction straps having extension straps connected thereto at their apices, said extension straps being of such length that their ends will be below the foot of the patient when the leg is straight, said ends being adapted to be connected in spaced relation to a spreader bar.

2,638,092
INTRAMEDULLARY NAIL INSERTER
James F. Dorr, San Jose, Calif., assignor of one-third to William Seward and one-third to Martin W. Payne, both of San Jose, Calif.
Application September 15, 1950, Serial No. 184,987
5 Claims. (Cl. 128—83)



1. A tool for moving an intramedullary nail axially within a bone by hammer blows comprising a shank, an offset bar extending perpendicularly from one end of said shank, and having flat hammer impact receiving surfaces on both sides thereof in directions lengthwise of the shank, a nail engaging element secured to the free end of said bar to extend parallel to said shank; an anvil arm secured to the free end of said shank for extension radially therefrom and having hammer impact receiving surfaces on both sides thereof in directions lengthwise of the shank, and locking means mounted to lock said offset bar and said anvil arm in various positions of rotative adjustment relative to said shank and to each other for providing striking surfaces on said offset bar and said anvil arm free and clear of the flesh surrounding a bone in which said intramedullary nail is being moved axially.

2,638,093
VAGINAL INSERT
George Kulick, Butler, Pa.
Application December 20, 1949, Serial No. 134,030
16 Claims. (Cl. 128—133)

1. A vaginal insert comprising an imporous shank having a cup-shaped depression at its upper limits adapted to fit against a uterus, a rim of said depression being inclined axially of said shank and having an anterior portion at a lower level than a posterior portion thereof, a cavity in said shank, a window opening anteriorly of said shank, and an inflatable means within



said cavity and arranged to be expanded through said window to urge a urethra against a pelvis.

2,638,094
NURSING BOTTLE NIPPLE AND SHIELD THEREFOR
Joseph Kronish, Mount Vernon, N. Y.
Original application January 11, 1947, Serial No. 721,607, now Patent No. 2,579,194, dated December 18, 1951. Divided and this application December 13, 1951, Serial No. 261,469
6 Claims. (Cl. 128—252)

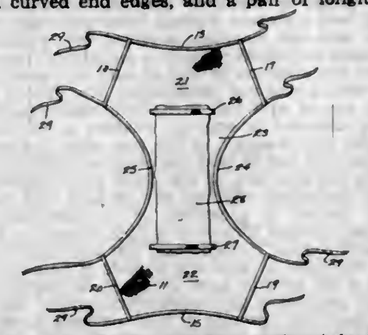


1. The combination with a nursing bottle nipple having an apertured mammilla and an attachment rim, of a shield having a portion enclosing said mammilla and a sleeve removably engageable with said rim, said rim being of appreciable axial extent, said sleeve being of comparable axial extent and being axially movable with respect to said rim while remaining in engagement therewith, said sleeve being selectively adjustable into either of two axially displaced positions relative to said rim, said sleeve having an opening therethrough located in its entirety in a region spaced from the edge of the sleeve, said opening overlying said rim and being obstructed thereby when the sleeve is in one of said positions, said opening lying axially offset from said rim when the sleeve is in the other of said positions, said opening in the last-mentioned position of the sleeve affording passage for a sterilizing medium inwardly therethrough into the space surrounding said mammilla.

2,638,095
NETHER GARMENT FOR SUPPORTING SANITARY NAPKINS AND THE LIKE
Marion S. Smythe, Memphis, Tenn.
Application May 5, 1951, Serial No. 224,713
1 Claim. (Cl. 128—284)

A nether garment adapted to retain and support a sanitary napkin comprising a bias cut fabric body foldable from extended position to use position, said body in extended position having an intermediate portion formed with opposite edges deeply curving arcuately into proximity adjacent the transverse midline of said body to form a narrow crotch portion for receiving a said napkin, said intermediate edges oppositely curving outwardly from said crotch portion, intermediate tie members secured to and extending away from the opposite ends of said intermediate edges, said intermediate tie members forming continuations of said curved intermediate edges

in unfolded condition of said garment, opposite end portions extending from the ends of said intermediate portion, the side edges of said end portions respectively angularly intersecting the ends of said curved intermediate edges, the opposite sides of each end portion extending convergingly from said intersections to taper said end portions, each said end portion having a curved end edge extending between the ends of said converging sides, end tie members fixed to and extending away from said curved end edges, said end tie members forming continuations of said curved end edges, and a pair of longitudi-



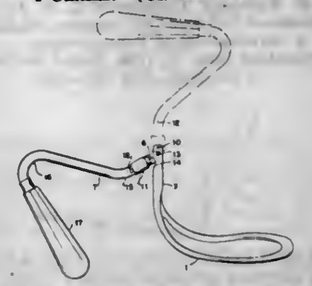
nally spaced napkins engaging anchor tabs fixed to and extending transversely of said intermediate portion, said end portions on folding of said body being positioned as the front and rear portions of said garment with said end edges cooperating to form a waist band therefor, the taper of said end sections accommodating the enlargement of a wearer's body and the curve of said end edges distributing stresses to the weave of said fabric, said intermediate tie members being adapted for inter-engagement upon folding of said body and when inter-engaged transferring use stresses along said curved intermediate edges.

2,638,096
APPARATUS FOR ORAL ANESTHESIA
Edith A. Waidhaus, Birmingham, Ala.
Application November 8, 1949, Serial No. 126,176
6 Claims. (Cl. 128—348)



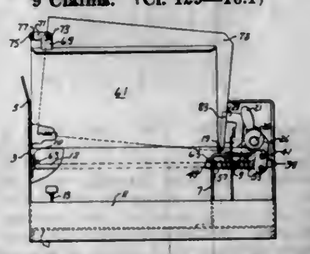
1. Apparatus for testing momentarily without disturbing the patient the proper intubation of an oral catheter inserted into the trachea, comprising in combination with an intra-tracheal catheter having a tubular terminal at its outer end, a test appliance comprising a perforate whistle affording unit mounted on said terminal and removably fitting said terminal in a manner to be joined quickly therewith and separated therefrom without disturbing the inserted portion of the catheter while it occupies the patient's throat, said whistle affording unit comprising a partial closure for said terminal containing a vent giving the catheter restricted communication with ambient air and forming the sole source of respiratory gas available to the patient through said catheter, said vent being of size, shape and arrangement to vibrate into clearly audible sound waves weak streams of air impelled gently through said vent by feeble breathing of the patient.

2,638,097
SURGICAL FORCEPS
John L. Marco, Kew Gardens, N. Y., assignor to Goodman-Kleiner Company, Inc., New York, N. Y., a corporation of New York
Application June 10, 1952, Serial No. 292,622
4 Claims. (Cl. 128—361)



1. In a surgical instrument of the character described, an open spoon-like base conforming approximately to the shape of an infant's cranium, a shaft leading from said base and split at its uppermost portion, a second shaft bent inwardly disposed above said base and pivotally attached within the split of said first named shaft, said pivot being positioned substantially below the terminus of said first named shaft, a collar surrounding said second named shaft and adapted to move over the juncture between said shafts and hold them in rigid relationship the one with the other.

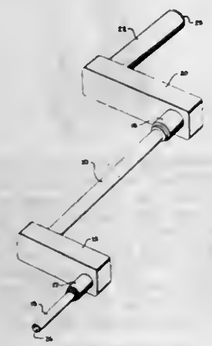
2,638,098
CARD SELECTING APPARATUS
Otto W. Toepper, Chicago, Ill., assignor to Johnson Fare Box Company, Chicago, Ill., a corporation of New York
Application March 1, 1946, Serial No. 651,230
9 Claims. (Cl. 129—16.1)



1. In a card selecting mechanism, a body for receiving the cards having a guide disposed adjacent one side thereof, said guide having a substantially horizontal surface, a plurality of cards each having an armature attached to one edge,

back strap of each pair of traction straps being connected to one of said tension transmitting straps, each of said pairs of traction straps converging from their points of connection to the band toward an apex which, when the band is applied, will be below the thigh of the patient, said pairs of traction straps having extension straps connected thereto at their apices, said extension straps being of such length that their ends will be below the foot of the patient when the leg is straight, said ends being adapted to be connected in spaced relation to a spreader bar.

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George Kulick, Butler, Pa.
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16 Claims. (Cl. 128—133)

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2,638,094
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Original application January 11, 1947, Serial No. 721,607, now Patent No. 2,579,194, dated December 18, 1951. Divided and this application December 13, 1951, Serial No. 261,469
6 Claims. (Cl. 128—252)

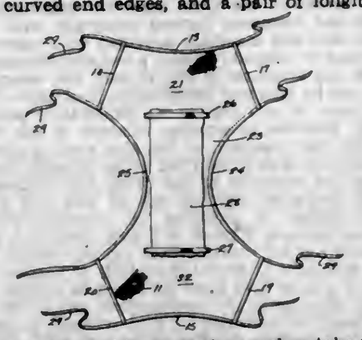


1. The combination with a nursing bottle nipple having an apertured mammilla and an attachment rim, of a shield having a portion enclosing said mammilla and a sleeve removably engageable with said rim, said rim being of appreciable axial extent, said sleeve being of comparable axial extent and being axially movable with respect to said rim while remaining in engagement therewith, said sleeve being selectively adjustable into either of two axially displaced positions relative to said rim, said sleeve having an opening therethrough located in its entirety in a region spaced from the edge of the sleeve, said opening overlying said rim and being obstructed thereby when the sleeve is in one of said positions, said opening lying axially offset from said rim when the sleeve is in the other of said positions, said opening in the last-mentioned position of the sleeve affording passage for a sterilizing medium inwardly therethrough into the space surrounding said mammilla.

2,638,095
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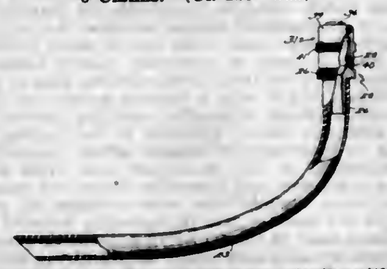
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in unfolded condition of said garment, opposite end portions extending from the ends of said intermediate portion, the side edges of said end portions respectively angularly intersecting the ends of said curved intermediate edges, the opposite sides of each end portion extending convergingly from said intersections to taper said end portions, each said end portion having a curved end edge extending between the ends of said converging sides, end tie members fixed to and extending away from said curved end edges, said end tie members forming continuations of said curved end edges, and a pair of longitudi-



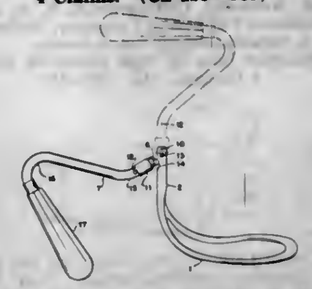
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2,638,096
APPARATUS FOR ORAL ANESTHESIA
Edith A. Waldhaus, Birmingham, Ala.
Application November 8, 1949, Serial No. 126,176
6 Claims. (Cl. 128—348)



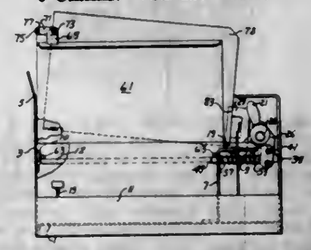
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2,638,097
SURGICAL FORCEPS
John L. Marco, Kew Gardens, N. Y., assignor to Goodman-Kleiner Company, Inc., New York, N. Y., a corporation of New York
Application June 10, 1952, Serial No. 292,622
4 Claims. (Cl. 128—361)



1. In a surgical instrument of the character described, an open spoon-like base conforming approximately to the shape of an infant's cranium, a shaft leading from said base and split at its uppermost portion, a second shaft bent inwardly disposed above said base and pivotally attached within the split of said first named shaft, said pivot being positioned substantially below the terminus of said first named shaft, a collar surrounding said second named shaft and adapted to move over the juncture between said shafts and hold them in rigid relationship the one with the other.

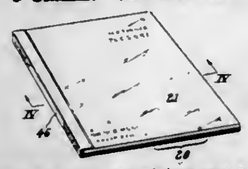
2,638,098
CARD SELECTING APPARATUS
Otto W. Toepper, Chicago, Ill., assignor to Johnson Fare Box Company, Chicago, Ill., a corporation of New York
Application March 1, 1946, Serial No. 651,230
9 Claims. (Cl. 129—16.1)



1. In a card selecting mechanism, a body for receiving the cards having a guide disposed adjacent one side thereof, said guide having a substantially horizontal surface, a plurality of cards each having an armature attached to one edge,

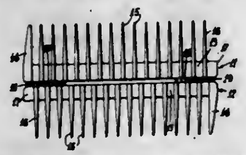
means for positioning said cards in said body with said armatures disposed adjacent said guide, holding means operable to selectively hold all but certain of said cards, a magnet, a support for said magnet, a control mechanism, means for pivotally connecting the magnet to the control mechanism, means mounting said mechanism for sliding substantially parallel to said guide surface, toward and away from said armature, and actuating means mounted on the body and movable for pivoting said magnet about said connection into contact with said guide, said connection and guide serving to transmit additional movement of said actuating means to slide said mechanism and magnet toward said armatures along said guide.

2,638,099
ALBUM
John R. Kennedy, Collingswood, N. J., assignor to National Publishing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 10, 1950, Serial No. 167,470
3 Claims. (Cl. 129—20)



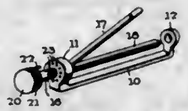
3. A record album comprising one and only one record carrying envelope having a front wall and a back wall, and flaps formed integrally with the front and back walls, said flaps having free ends, the flaps being affixed face to face to each other to form a laminar backbone having one scored edge defining the inner side boundary of the envelope and having a second scored edge from which said free ends extend, and a substantially rigid cover piece having an edge disposed adjacent the ends of said flaps, said cover piece edge being adjacent said second scored edge of the backbone, and said flaps being foldable along both said scored edges of said backbone.

2,638,100
COMB
John J. Lasicki, New York, N. Y.
Application December 3, 1949, Serial No. 130,898
1 Claim. (Cl. 132—15)



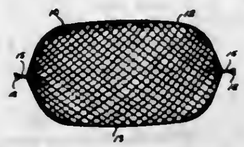
A hinged double comb comprising a pair of comb sections, each of said sections including an elongated spine member, a plurality of spaced parallel teeth formed integral with said spine member, said teeth being off-set laterally relative to said spine member and having the top ends thereof coextensive with the top edge of said spine member, and hinge means connecting said comb sections together at said spine members thereof, the teeth on one of said comb sections being so disposed therealong as to engage between the teeth of the other of said comb sections when said comb sections are in an operative position.

2,638,101
FACE LIFTING AND HAIR CURLING DEVICE
Earl T. Clark, Washington, D. C.
Application November 26, 1951, Serial No. 258,228
1 Claim. (Cl. 132—41)



A device of the type described embodying a base, end members formed integrally with said base, said end members provided with apertures disposed in aligned relation, a rod slidably mounted in the aperture in one of said end members, one end of said rod terminating in a pair of legs with one of said legs in its inoperative position being disposed in angular relation to the other leg for the reception of the free ends of strands of hair, the legs of said rod being slidably mounted in the aperture of the other end member in their operative position, one of said end members having a plurality of circumferentially spaced recesses formed in a face thereof, a knob on said rod for rotating said rod and legs in said end members to wind the strands of hair on said legs, a pin on said knob arranged to project in a plane parallel to the longitudinal axis of the rod for insertion into one of said recesses to secure said rod against rotative movement with respect to said base.

2,638,102
HAIR NET OR THE LIKE AND METHOD OF MAKING SAME
Henry F. Goldsmith, Philadelphia, Pa.
Application July 19, 1948, Serial No. 39,403
5 Claims. (Cl. 132—49)



1. In a process of the character described; the steps which comprise longitudinally stretching into a substantially tubular or rope-like strip a length of sheer open-mesh netted fabric formed at least in part by synthetic plastic threads, moistening a relatively small annular area of the stretched length with a volatile solvent for the synthetic plastic, thereafter applying two strips of synthetic plastic material to the moistened area in longitudinally-spaced tightly encircling relationship to said moistened area while said area is still wet, and thereafter drying the moistened area whereby the inner surfaces of said strips are more or less permanently adhered to at least some of the underlying synthetic plastic threads of said fabric under the dissolving action of the solvent upon said threads and said strips.

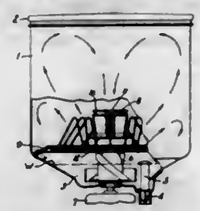
5. A hair-net consisting of the combination of a length of open-mesh nylon fabric, relatively small fastening sleeves tightly encircling the fabric so as to provide a gathered zone near but spaced from each end of the length of fabric, each of said sleeves being a strip of plastic material permanently adhered to the nylon fabric contiguous thereto, some of the threads of the nylon fabric being permanently adhered to each other within the sleeve, the strip of plastic material being permanently adhered to itself in overlapping relation to form the sleeve, and soft tufts of spread-apart nylon fabric at each end of the length of fabric providing cushioning for the edges and surfaces of the sleeves.

2,638,103
HAIRPIN
Frank Fuscaldo, Chicago, Ill.
Application January 5, 1950, Serial No. 137,013
1 Claim. (Cl. 132—50)



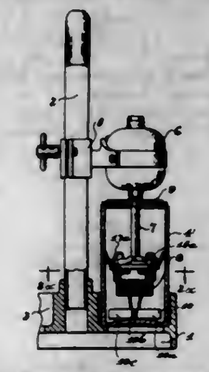
A hairpin constructed of a single strip of sheet metal having a central waist portion of reduced width and tapering at its ends, said strip being folded about its central reduced waist portion to form a single generally U-shaped spring base providing spaced finger grips, a pair of upper and lower opposed hair gripping jaws, and crossed connecting pieces between the inner ends of said jaws and said spring base, said connecting pieces having cut-away portions along opposite edges thereof adapted to interengage when said hairpin is in folded condition to cause said jaws to extend substantially in longitudinal alignment, each of said jaws being transversely concave to provide angular hair gripping surfaces, the said lower jaw being slightly longitudinally curved to conform to the shape of the human head and the said upper jaw being longitudinally sinuously curved to provide a plurality of hair receiving openings between said jaws.

2,638,104
SOIL STRAINER ATTACHMENT FOR DISHWASHERS
Gaylord H. Wotring, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application November 24, 1950, Serial No. 197,360
7 Claims. (Cl. 134—111)



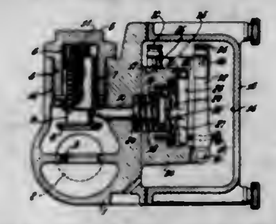
1. In a dishwasher having a tub, a silverware basket of perforated material suspended in the tub, and an impeller centrally located near the bottom of the tub below said basket, said impeller moving a washing solution in said tub through a certain recirculating dishwashing flow pattern which includes passing a portion of said solution downwardly through said silverware basket, that improvement comprising a soil strainer having perforations smaller than the perforations in said silverware basket and being removably secured to the bottom of said basket, whereby solution passing through said basket is strained of soil particles before recirculation by said impeller.

2,638,105
BAFFLE FOR WATCH CLEANING MACHINES
Albert Skirment, Rochester, N. Y.
Application April 10, 1949, Serial No. 86,815
3 Claims. (Cl. 134—183)



1. A baffle adapted to be inserted into a container having side walls and a central axis, said baffle being formed from a single resilient ribbon of metal, the ends of which are joined together, said ribbon being bent to form a series of elongated baffle sections, each of which sections has sides that diverge from a common open center, the sides of each section being flared outwardly and being connected at the outer end by a bridge extending between respective adjacent sides of adjacent baffle sections, which sections normally lie in a single plane, said baffle having the outer ends of said sections sprung toward each other and lying on the side walls of said container with the width of the ribbon extending generally radially, and the elongated baffle sections extending generally radially from said central axis.

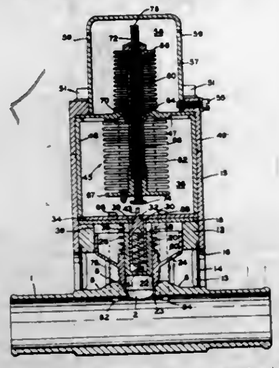
2,638,106
FUSIBLE TRIP MECHANISM FOR AUTOMATIC CUTOFF VALVES
Herbert H. Shiels, Culver City, Calif.
Application April 21, 1950, Serial No. 157,221
5 Claims. (Cl. 137—75)



1. A valve mechanism comprising, a casing having a valve seat therein, a valve slidable in the casing, resilient means urging said valve toward the said seat, a plunger engaging the valve to maintain it in open position, resilient means urging said plunger away from the valve, a diaphragm abutting the outer end of said plunger and closing an opening of the casing at the end of the plunger, diaphragm contacting means including two levers, each pivotally mounted at one end thereof on the casing, one lever having intermediate its ends a knob contacting said diaphragm, the other lever having intermediate its

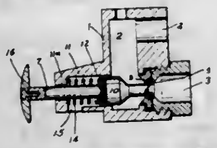
ends a projection contacting said first named lever, and fusible means locking the two levers in position to maintain the plunger in engagement with the valve.

2,638,107
SUCTION REGULATING VALVE
Walter D. Teague, Jr., Alpine, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 5, 1948, Serial No. 19,051
10 Claims. (Cl. 137—81)



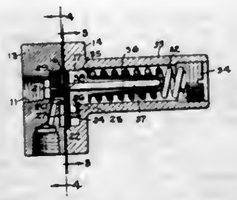
8. A pressure regulator for use in a suction line between a vacuum pump and an aircraft device, comprising, in combination, a suction conduit, a valve in said conduit for bleeding air into said conduit, control means for operating said bleed valve including a servo piston operatively connected to said bleed valve, a servo valve for controlling said servo piston, a first bellows responsive to changes in ambient atmospheric pressure, and a second bellows having a predetermined greater effective area than said first bellows and responsive to the pressure in said suction conduit, said first and second bellows being effective to control said servo valve whereby said servo piston is operated to move said bleed valve to maintain the pressure in said suction conduit at a predetermined ratio proportional to and less than ambient atmospheric pressure.

2,638,108
PUSH-PULL CONTROL VALVE
Norman C. Williams and Rollin W. Fishwood, Portland, Oreg., assignors to Power Brake Equipment Co., Portland, Oreg.
Application June 24, 1949, Serial No. 101,026
6 Claims. (Cl. 137—102)



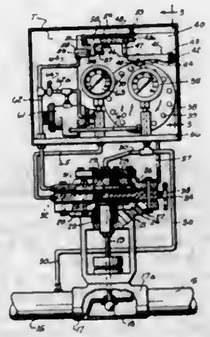
4. A control valve for pressure fluids, comprising a body, pressure supply, pressure transmitting and exhaust ports formed in said body, passages connecting said ports with large and small spaced valve cylinders aligned and coaxial with said supply port, a valve stem coaxial with and movable within said valve cylinders, a large and a small valve of the plunger type mounted on said valve stem, fitted to move into and out of said valve cylinders to open and close the same, manual means for selectively moving said valves concurrently, a spring backing for said large valve biasing it to hold said smaller valve and said valve stem to close said pressure supply and open said exhaust port save when pressure beneath the large valve is sufficient to overcome the bias of said spring backing.

2,638,109
PRESSURE REGULATING VALVE
Gunnar A. Wahlmark, Rockford, Ill.
Application April 4, 1949, Serial No. 85,445
12 Claims. (Cl. 137—116)



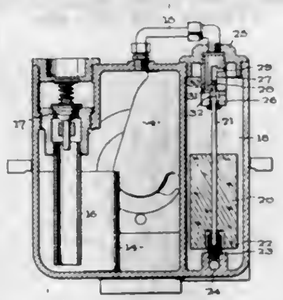
10. A valve of the character described comprising a casing providing a fluid chamber having an inlet opening, a flapper forming one wall of said chamber and pivoted on the casing to rock about an axis extending across one side of the flapper, means providing two outlets from said chamber terminating in ports which are laterally spaced apart on the opposite side of the flapper, said ports being surrounded by seats adapted for abutting engagement substantially simultaneously with the flapper, and means loading said flapper to urge the same yieldably toward said seats and thereby prevent the escape of fluid through either of said ports until the chamber pressure has risen above a predetermined value.

2,638,110
VALVE CONTROL APPARATUS
Asbury S. Parks, Houston, Tex.
Application October 16, 1947, Serial No. 780,177
7 Claims. (Cl. 137—155)



6. A control apparatus for controlling the admission of fluid into a conductor including, a main inlet valve having a pressure-actuated operating element, means for conducting a pilot pressure to the operating element, a flexible pressure-responsive member functioning as a valve means to control the admission of pressure to the operating element of the main inlet valve and having its opposite sides normally exposed to a regulated pilot pressure whereby pressures thereacross are balanced, a second pressure-responsive member exposed to the pressure in the conductor, a force transmitting means between said second pressure-responsive member and the first pressure-responsive member, whereby the pressure acting on said second member is transmitted to said first member to move the first member in a direction shutting off pressure fluid to the operating element of the main valve to permit closing of the valve when pressures across said first pressure-responsive member are balanced, and time-controlled pilot means for unbalancing the pressures across said first pressure-responsive member at predetermined time intervals whereby said first member is actuated to direct pressure fluid to the operating element to open the main inlet valve.

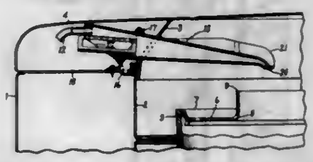
2,638,111
FLOAT VALVE
Bernard Wagner, Crafton, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 11, 1949, Serial No. 120,797. Divided and this application May 26, 1952, Serial No. 290,016
3 Claims. (Cl. 137—192)



1. A float valve comprising a valve rod, a float mounted thereon and a valve piece at the lower end of said rod, the upper end of the rod being tapered to reduced diameter and terminating in a piston head of less diameter than the maximum diameter of the tapered portion, a cylinder in which said piston head is received, and a fluid conduit entering the bore of said cylinder beneath the piston head, to project fluid thereagainst and to assist in raising said valve piece from its seat as buoyancy of the float increases with rise of liquid level.

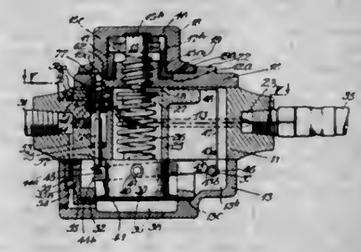
2,638,112
ANTISIPHONAGE INLET SYSTEM FOR WASHING MACHINES AND THE LIKE
Winston L. Shelton, Trenton, N. J., assignor to General Electric Company, a corporation of New York
Application June 21, 1950, Serial No. 169,487
7 Claims. (Cl. 137—216)

1. A fill spout for a washing machine or the like, comprising an elongated tubular body having an inlet end adapted to receive liquid supply conduits and a discharge end having a relatively restricted opening for the flow of supplied liquid into said washing machine, said inlet end adjacent the discharge ends of said conduits having an opening substantially larger than the total discharge area of said conduits to admit atmospheric air freely about said discharge ends, said inlet end being formed and positioned with the bottom portion of said tubular body beginning forwardly of said discharge ends of said conduits;



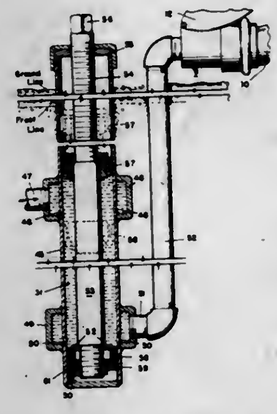
a catch plate secured within the inlet portion of said body beneath said supply conduits and having an imperforate bottom wall projecting into said body parallel with the bottom wall thereof to an extent substantially beyond the ends of said conduits, the inner end of said cacth plate defining with the walls of said body an area substantially larger than the total conduit discharge area and in communication with said inlet end opening; and means for mounting said fill spout on said washing machine with the bottom wall thereof sloping toward said machine.

2,638,113
AUTOMATIC SNAP-ACTING FLUID PRESSURE INFLATOR
Robert Leroy Sturmer, San Leandro, Calif., assignor to Nelson Specialty Corporation, San Leandro, Calif., a corporation of California
Application July 27, 1949, Serial No. 107,090
9 Claims. (Cl. 137—225)



6. Automatic inflating apparatus comprising an air inlet, an air outlet, means connecting the same for passage of air from the inlet to the outlet, a normally closed valve disposed in said connecting means for normally closing communication between the inlet and outlet, pressure responsive means communicating with said outlet, valve operating means in the form of a lever carried by and pivoted on said pressure responsive means for movement therewith, one end of said lever being in operative relation to said valve for opening the same by pivotal movement in one direction and to allow closing of the same by pivotal movement in the other direction, the other end of said lever having cam surfaces, and resilient means for bearing against said cam surfaces to quickly operate said lever by snap action both to open and to permit closing of said valve.

2,638,114
ANTIFREEZING AND NONPOLLUTING WATER VALVE
Nelson F. Wetzel, Indianapolis, Ind.
Application December 16, 1947, Serial No. 791,967
7 Claims. (Cl. 137—281)



7. In a non-polluting water hydrant, a source of water under pressure, an enclosure defining a chamber below frost level divided into constant and variable volume compartments, a discharge riser extending from atmosphere to below frost level and connecting into a low point in the variable volume compartment of said chamber when the variable volume compartment is expanded to its largest volume and connecting into the constant volume compartment when the variable volume compartment is reduced to its smallest volume, said riser and chamber being pressure tight below ground level and being completely closed against communication with underground water except from said source of water under pressure which said source is continuously connected with the constant volume compartment of said chamber, said chamber having a hollow extension upward to atmosphere, a plunger in said chamber, a rod extending upwardly through the hollow extension of said chamber for moving said plunger to increase or decrease the volume of the variable volume part of said chamber sufficiently to draw water down the riser to below frost level, and a valve partition separating the constant volume compartment and the variable volume compartment, and closing communication between the constant volume compartment and the discharge riser by the initial upward movement of said plunger to interrupt the flow of water through said chamber from the inlet to the discharge riser.

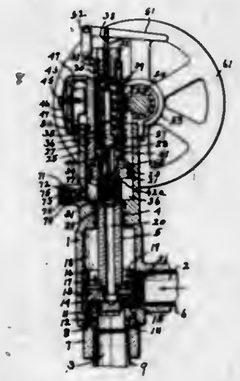
2,638,115
FLUID OPERATED PUMP CONTROL
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application May 10, 1947, Serial No. 747,234
19 Claims. (Cl. 137—486)

1. In a device for governing the rate of flow of a high pressure fluid, the combination of: a metering orifice adapted to impress a fluid pressure differential upon said fluid; a main valve biased to assume a closed position; and means



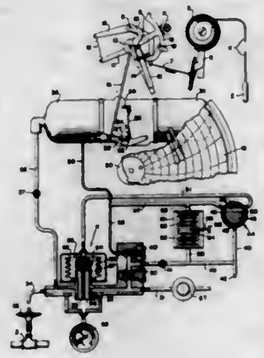
responsive to a decrease in said pressure differential for causing said main valve to open.

2,638,116
VALVE ASSEMBLY
Luther E. Brown, Greggton, Tex.
Application July 7, 1947, Serial No. 759,339
9 Claims. (Cl. 137—490)



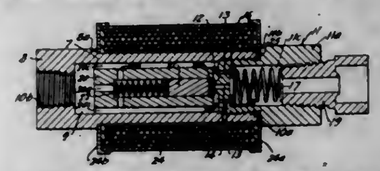
1. A relief valve assembly comprising, a valve housing having an inlet and an outlet, a relief valve in the housing movable to one position to close the outlet and to another position to open the outlet, valve actuating means, said assembly having a conduit leading through the relief valve and provided with an opening through which said actuating means may be exposed to the pressure of the fluid entering said inlet, a control valve normally closing said conduit but movable, upon an increase of said pressure, to open the conduit and means normally closing said opening and operable subsequent to the opening of the control valve to admit said pressure fluid to said actuating means.

2,638,117
CONTROL SYSTEM HAVING A MANUAL TRANSFER VALVE
Joseph G. Horn, Drexel Hill, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 11, 1947, Serial No. 773,485
5 Claims. (Cl. 137—557)



1. An air operated control system including, an inlet adapted for connection to a supply of air which furnishes the motive power of the system, a first conduit communicating with said inlet and having a restriction of fixed size therein, a first outlet orifice forming a bleed to atmosphere for a portion of the air flowing past the restriction in said conduit, an automatically operating valve adapted to vary the opening of said first outlet orifice to atmosphere in response to a variable selected to govern the operations of the system, a second conduit communicating with said inlet and forming a by-pass or parallel to said first conduit, a manually operable valve adapted to control the flow of air through said second conduit, a second outlet orifice forming a bleed to atmosphere for a portion of the air flowing through said manually operable valve, a pressure operated relay valve having a body provided with a passage through it connected at one end to said inlet, a movable valve member in said body controlling the flow of air through said passage, a pressure operated element connected to said movable valve member so as to move it in response to changes in the pressure applied thereto, a transfer valve operable to selectively connect one of said conduits to said pressure operated element and to disconnect the other of said conduits from said pressure operated element so as to expose said pressure operated element to the instantaneous pressure existing in that conduit to which it is connected and thereby to operate said pressure operated element either automatically or manually, and a control valve having an operating element communicating with an outlet from said passage through said pressure operated relay valve body so as to be operated by the pressure in said passage through said pressure operated relay valve body.

2,638,118
CONTROL MECHANISM FOR PREVENTING MOTOR VEHICLES FROM CREEPING WITH PROVISION FOR MAINTAINING A CONSTANT RESTRAINING FORCE
Irvin B. Chandler, Mankato, Minn., assignor to Minnesota Automotive, Inc., Minneapolis, Minn., a corporation of Minnesota
Application November 5, 1949, Serial No. 125,773
5 Claims. (Cl. 137—598)

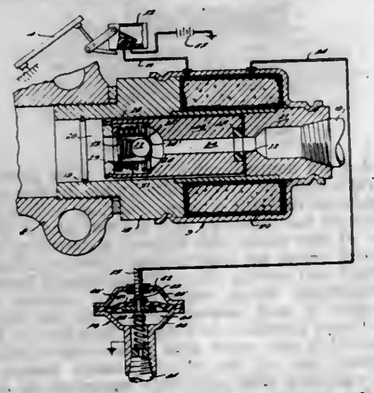


1. A fluid control valve for use with hydraulic brake systems and comprising a hollow casing member defining a valve chamber with a fluid inlet at the pressure end thereof and a fluid outlet at the other end thereof, a partition interposed across an intermediate portion of said chamber and having flow passage means formed therethrough, check valve means sealing off a portion of said passage means on the outlet side of said partition to prevent backflow of fluid therethrough, valve seat means surrounding the inlet side of the other passage means, a valve carrying body shiftably mounted in said chamber on the inlet side of said partition and constructed to permit unrestricted bypass flow of fluid in both directions, a valve shiftably mounted at the end of said body adjacent said partition and positioned to engage, when said body is shifted toward the inlet side of said partition said valve seat means surrounding the inlet side of said seated passage means and directly opposing the backflow of fluid therethrough, resiliently yieldable means permitting shifting movement of said valve relative to the body and urging said valve against said seat means with a predetermined force when said body is shifted toward said partition into projected predetermined relation thereto, and means for instantly projecting said body toward said partition.

2,638,119
BRAKE HOLDING DEVICE
Donald A. Baird, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 25, 1947, Serial No. 787,957
11 Claims. (Cl. 137—598)

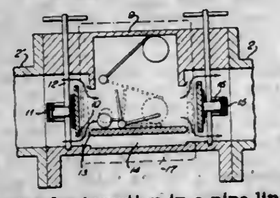
1. A control valve adapted to be mounted in the fluid conduit extending between the master cylinder and a wheel cylinder of a fluid pressure operated brake system of a motor vehicle providing means to trap pressurized fluid in the brake system of the motor vehicle so as to prevent creep of the vehicle comprising a casing having a bore therethrough providing a pressure fluid conduit, said casing including a wall extending across said casing bore having an aperture therein providing a casing valve port and an encircling valve seat, an armature member concentrically mounted within said casing bore for reciprocatory movement longitudinally of said casing bore, said armature having portions of its periphery spaced from the walls of said casing bore to provide fluid conduit means therebetween that extend longitudinally of the casing bore, said armature including other portions ar-

ranged to be seated on the casing valve seat to close off flow through said casing bore and casing valve port whereby the armature provides a plunger control valve for said casing bore, solenoid means mounted on said casing adapted to be energized to move the said other portions of the armature plunger valve into engagement with the casing valve seat, a bore through said armature plunger valve connecting said casing bore and said casing valve port, said bore in said armature plunger valve having a first valve asso-



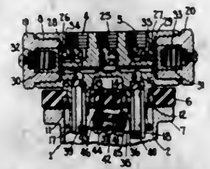
ciated therewith so as to prevent flow of fluid from the casing bore through the plunger valve bore towards said casing valve port while permitting fluid flow through said plunger valve bore in the opposite direction, and a second valve associated with the bore in said armature plunger valve arranged to prevent flow of fluid in a direction from the casing valve port through said plunger valve into said casing bore while permitting fluid flow through the plunger valve bore in the opposite direction.

2,638,120
ARRANGEMENT IN PROTECTING RELAYS FOR LIQUID-FILLED ELECTRICAL APPARATUS
Emil Stenkvist and Erik Gudmundsson, Ludvika, Sweden, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application August 6, 1947, Serial No. 766,706
In Sweden May 5, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 5, 1965
2 Claims. (Cl. 137—599)



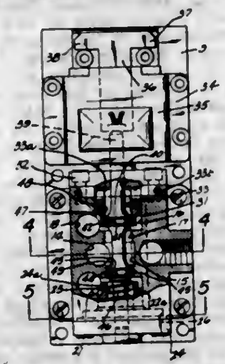
1. A device for insertion in a pipe line between a liquid-filled electric apparatus and its expansion vessel, comprising relay means responsive to at least one condition of liquid at the relay means, a housing forming a relay chamber accommodating said means, a detachable cover for said chamber, inlet and outlet ducts in the housing, two valve means, one on the inlet and one on the outlet side of said chamber; and a restricted duct formed within said housing and by-passing said valve means, each of said valve means including a valve consisting of a valve disc adapted to be moved away from and towards its seat, a slotted ball fixed to said valve disc, cam means located in said ball, and a shaft fixed eccentrically to said cam and extending through the slots of said ball and through one wall of the housing.

2,638,121
CONTROL DEVICE
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Controls Corporation, a corporation of Michigan
Application May 11, 1948, Serial No. 26,429
8 Claims. (Cl. 137—609)



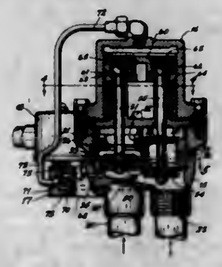
1. A control device comprising a casing having a fluid inlet and a pair of fluid outlets, a pair of valves for controlling fluid flow through said outlets, means for opening and closing said valves, means positioned in each of said outlets and operable to determine the pressure of fluid discharging therethrough, an auxiliary outlet from said casing, and means for bleeding fluid from said first-named outlets to said auxiliary outlet at points between said valves and said pressure determining means.

2,638,122
VALVE
Walter D. Ludwig, Detroit, Mich.
Application February 18, 1948, Serial No. 9,222
9 Claims. (Cl. 137—623)



1. A valve construction of the class described comprising a valve housing and having an inlet chamber formed therein, an inlet port communicating with said chamber, a pair of intermediate chambers one being positioned at each side of said first named chamber, a passage at opposite ends of said inlet chamber, each communicating said inlet chamber with one of said intermediate chambers, a pair of outlet delivery conduits each in constant communication with one of said intermediate chambers; a sleeve mounted at opposite ends of said housing each of said sleeves projecting into an intermediate chamber, there being an exhaust conduit communicating with the interior of each of said sleeves, the interior of each of said sleeves being adapted for communicating with the intermediate chamber into which projected; a valve stem slidably mounted in said housing and projecting through said sleeve and through said chambers; a pair of spaced apart valves on said stem each being slidable into a sleeve or into one of said passages for closing the sleeve or passage engaged, said valves being so spaced apart that upon engagement of one of said valves in a sleeve, the other of said valves will engage in one of said passages.

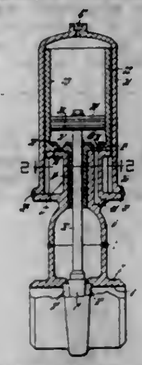
2,638,123
FOUR-WAY CHANGE-OVER VALVE
Frank J. Vargo, St. Louis County, Mo., assignor to Alco Valve Company, University City, Mo., a corporation of Missouri
Application October 30, 1947, Serial No. 783,121
11 Claims. (Cl. 137—625)



11. In a valve construction, a housing containing a first, second, third and fourth opening; a first valve chamber within the housing having spaced valve seat openings, the first opening being connected to the first chamber between the valve seats and one seat opening leading to each of said third and fourth openings; a second valve chamber, within the housing having spaced valve seat openings, the second opening being connected to the second chamber between the valve seats and one seat leading to each of said third and fourth openings; individual valve means associated with each valve chamber and its valve seat openings to close selectively either valve seat opening thereof and open the other; pressure-responsive means for at least one of said valve means; means restrictively connecting one side of the pressure-responsive means with one of said third and fourth openings; and means for selectively connecting the other side of the pressure-responsive means with either said first or second openings.

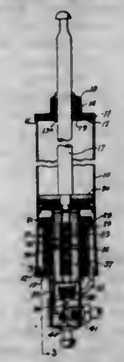
2,638,124
VALVE
Elmer K. Nickerson, Springfield, Mass., assignor to The Chapman Valve Manufacturing Company, Springfield, Mass., a corporation of Massachusetts
Application April 7, 1950, Serial No. 154,516
3 Claims. (Cl. 137—689)

1. A valve construction comprising in combination, an integral structure including welded together lower body and intermediate hollow bonnet thereabove and elongated upper neck extending upwardly from the bonnet and having a longitudinal bore, said body provided with a passageway therethrough, a gate movable in the body between passageway closing and opening positions, a cylinder bolted at its lower end to the upper side of the neck in alignment with the bore thereof having a piston reciprocable therein, a rod having a lower end secured to said gate and extending upwardly through said bonnet and bore of the neck and connected at its upper end to said piston, an elongated gland around said rod extending downwardly through the bore of the neck



and out of contact therewith bolted at its upper end to the upper end of said neck, and an elongated tubular closure surrounding said cylinder and being out of contact therewith provided with a closed upper end above an upper end of the cylinder and having a lower end connected by welding to the structure at a point remote from the upper end of said neck and lower end of said cylinder.

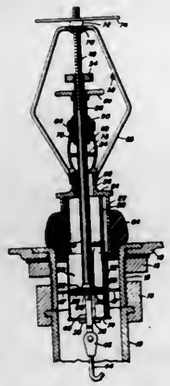
2,638,125
ELECTROMAGNETICALLY ACTUATED VALVE
John B. Parsons, Maumee, Ohio
Application July 17, 1950, Serial No. 174,282
1 Claim. (Cl. 137—729)



A device of the class described comprising a housing, a solenoid controlled valve assembly within the housing including a unitary device having an elongate sleeve of substantially less diameter than the housing, a pair of washer-like members embracing the inner end portion of the sleeve, an integral flange on the outer washer-like member embracing the sleeve and against which the other member abuts thereby positively to space one member from the other, a fluid tight welded connection between said flange and said sleeve, a rubber-like sealing means between said

washer-like members in sealing engagement with the walls of the housing means to retain the inner washer-like member on the sleeve and against said flange, a third washer-like member embracing said sleeve and closing the adjacent end of said housing, an integral flange on said third member embracing the sleeve, a solenoid coil on said sleeve and interposed between said first flanged washer-like member and said third member, a spring tensioned reciprocable valve within said sleeve, a ported fitting secured to the outer end of said sleeve, and a rigid fluid tight welded connection between said sleeve and fitting.

2,638,126
DEVICE FOR FLUSHING DRAINPIPES
Joseph B. Hord, Maxton, N. C.
Application December 27, 1949, Serial No. 135,268
6 Claims. (Cl. 137—741)



1. A device for opening a blocked drain pipe comprising an outer cylinder, an inner cylinder telescopically mounted in the outer cylinder, means to prevent relative rotational movement between the cylinders, means to fasten the inner cylinder in a drain pipe, means to move the outer cylinder axially with respect to the inner cylinder, a deformable resilient member on the outer cylinder for sealing engagement with the drain pipe, and a conduit leading into said outer cylinder, said outer cylinder having a manually operable valve controlling flow from said conduit into said outer cylinder.

2,638,127
MOLDED DIAPHRAGM STRUCTURE
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif., a corporation of California
Original application September 9, 1943, Serial No. 501,701. Divided and this application January 16, 1946, Serial No. 641,421
7 Claims. (Cl. 137—793)



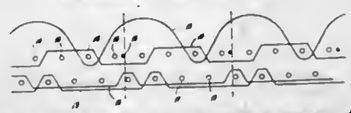
5. A diaphragm comprising: a substantially circular flexible body; a substantially circular relatively rigid central boss formed integral with said body and having the peripheral wall thereof merged into said body upon an arc, said boss including an annular marginal surface adapted to engage an annular seat and a protuberance on said boss within the peripheral limits of said annular seat-engaging portion, said protuberance including a cylindrical portion and a lower end face, said cylindrical portion being merged at its periphery with said end face by a rounded corner, said annular seat engaging portion being adapted, under flexing movement of said diaphragm, to first engage the seat at one point and then to gradually and progressively engage the remainder of the seat on both sides of said point until complete contact all the way around the seat is made.

2,638,128
LAMINATED PILE WIRE FOR STATIONARY WIRE WILTON LOOMS
Ralph W. Peacock, Fleming, N. Y., assignor to Nye-Wait Company, Inc., Auburn, N. Y., a corporation of New York
Application September 12, 1949, Serial No. 115,241
2 Claims. (Cl. 139—47)



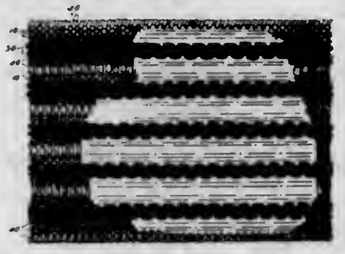
1. A pile wire of the class described, comprising two identical laminations, each including integral butt, knife-holding, loop-tension-releasing, loop-forming, and loop-guiding sections successively from front to rear of the wire, an intermediate spacer lamination disposed between the first-mentioned laminations at the butt ends of the latter and also extending between the knife-holding sections thereof, said intermediate spacer lamination conforming at one end to the shape of the butt sections of the first-mentioned laminations but having that portion thereof between the knife-holding sections of said first-mentioned laminations of less height than the height of the latter, thereby forming a centrally positioned knife mounting slot between the outermost laminations, the upper edge of said extended portion of the intermediate spacer and the contiguous edge of the butt portion thereof forming an acute angle for preventing upward displacement of a knife when mounted in the slot aforesaid, and said laminations all being united together by spot welds as an integral unit.

2,638,129
FABRIC
Firmin Gustave Henri Van Risseghem, Ghent, Belgium, assignor to Tissage Leonard Maere: Societe Anonyme, Ghent, Belgium, a company of Belgium
Application June 2, 1950, Serial No. 165,789
In Belgium April 6, 1950
2 Claims. (Cl. 139—403)



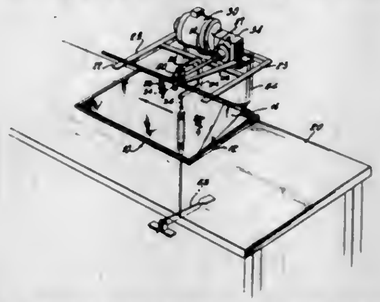
1. A double-cloth or compound woven fabric including a face cloth and a back cloth of a piled moisture absorbent fabric; said compound woven fabric comprising three sets of warps and three sets of wefts, two of said sets of warps and one of said sets of wefts being woven to form the piled back cloth, the other of said sets of warps and one other of said sets of wefts being woven to form the face cloth, and the remaining set of wefts binding together said face and back cloths of the compound fabric.

2,638,130
METHOD OF MAKING ELASTIC WEBBING AND PRODUCT THEREOF
Donald G. Posson, Needham, Mass.
Application March 7, 1950, Serial No. 148,059
12 Claims. (Cl. 139—421)



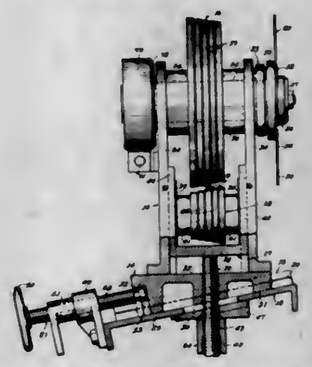
1. The method of weaving a slip-resisting elastic webbing having inextensible body warp threads, extensible body warp threads and exposed extensible warp threads raised above the body of the webbing, which consists in interweaving a filling yarn with said warp threads while holding the inextensible body warp threads taut, and while holding the extensible body warp threads and the exposed extensible warp threads under tension, with the extensible body warp threads stretched to a greater tension than the exposed extensible warp threads, whereby the tensions of the extended warp threads in the webbing are balanced.

2,638,131
FRAMING DEVICE
Joseph F. Rohs, Riverside, Conn., assignor, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass., a corporation of Massachusetts
Application January 14, 1949, Serial No. 70,896
2 Claims. (Cl. 140—109)



2. A framing device comprising in combination a support having an extended flat surface adapted to support a screen frame, a tiltable motor disposed outside of the perpendicular projection of the supporting surface, an elongated drive shaft carried by the motor and rotatable by the motor, the shaft extending within the perpendicular projection of the supporting surface, a splining roll on the shaft, the roll being movable by tilting of the motor toward and away from the supporting surface along a line intersecting the surface, a bearing on the shaft adjacent the roll, an offset link connected to the bearing, the link having a pair of arms extending around the edge of the support, and means on the side of the surface opposite to the bearing connected to the link for tilting the motor and urging the roll toward the surface, said link and last mentioned means being adapted to exert force on the bearing along a line passing through the surface and adjacent the line of motion of the roll.

2,638,132
FEED MECHANISM
Joseph R. Guess, Rosemead, Calif.
Application July 1, 1950, Serial No. 171,642
5 Claims. (Cl. 140—129)



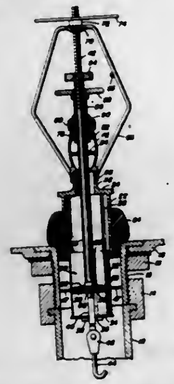
2. In a wire feed mechanism, in combination, a sloping support having its angle of slope transverse to the line of feed of a wire, a bracket slidably adjustable on said support along the angle of slope thereof, a pair of feed wheels carried on parallel axes by said bracket and between which extends said line of wire feed, each wheel being provided with a plurality of annular lands of successively different diameter and the angle defined by the lands of each wheel where the same engage the wire being the same as and parallel to the angle of slope of the support, means to adjust the spacing between the lands of the respective wheels, comprising an auxiliary bracket slidingly carried by the mentioned bracket and mounting one of said wheels and an adjusting stem engaged with the auxiliary bracket and carried by the sloping support, and means to intermittently drive the other of said wheels.

2,638,133
LINE UP TROUGH FOR RESAWING MACHINES
Walter A. Trapeur, Sutherlin, Oreg.
Application December 12, 1951, Serial No. 261,308
7 Claims. (Cl. 143—4)

6. In a resawing machine in which a set of vertical feed-rolls are mounted in a transversely movable support and a set of horizontal live rolls are arranged to move cants into feeding engagement with said feed-rolls, the combination of a cant-guiding wall arranged above said horizontal

washer-like members in sealing engagement with the walls of the housing means to retain the inner washer-like member on the sleeve and against said flange, a third washer-like member embracing said sleeve and closing the adjacent end of said housing, an integral flange on said third member embracing the sleeve, a solenoid coil on said sleeve and interposed between said first flanged washer-like member and said third member, a spring tensioned reciprocable valve within said sleeve, a ported fitting secured to the outer end of said sleeve, and a rigid fluid tight welded connection between said sleeve and fitting.

2,638,126
DEVICE FOR FLUSHING DRAINPIPES
Joseph B. Hord, Marion, N. C.
Application December 27, 1949, Serial No. 135,268
6 Claims. (Cl. 137—741)



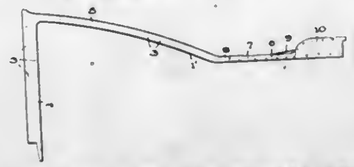
1. A device for opening a blocked drain pipe comprising an outer cylinder, an inner cylinder telescopically mounted in the outer cylinder, means to prevent relative rotational movement between the cylinders, means to fasten the inner cylinder in a drain pipe, means to move the outer cylinder axially with respect to the inner cylinder, a deformable resilient member on the outer cylinder for sealing engagement with the drain pipe, and a conduit leading into said outer cylinder, said outer cylinder having a manually operable valve controlling flow from said conduit into said outer cylinder.

2,638,127
MOLDED DIAPHRAGM STRUCTURE
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif., a corporation of California
Original application September 9, 1943, Serial No. 501,701. Divided and this application January 16, 1946, Serial No. 641,421.
7 Claims. (Cl. 137—793)



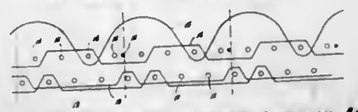
5. A diaphragm comprising: a substantially circular flexible body; a substantially circular relatively rigid central boss formed integral with said body and having the peripheral wall thereof merged into said body upon an arc, said boss including an annular marginal surface adapted to engage an annular seat and a protuberance on said boss within the peripheral limits of said annular seat-engaging portion, said protuberance including a cylindrical portion and a lower end face, said cylindrical portion being merged at its periphery with said end face by a rounded corner, said annular seat engaging portion being adapted, under flexing movement of said diaphragm, to first engage the seat at one point and then to gradually and progressively engage the remainder of the seat on both sides of said point until complete contact all the way around the seat is made.

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Ralph W. Peacock, Fleming, N. Y., assignor to Nye-Wait Company, Inc., Auburn, N. Y., a corporation of New York
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2 Claims. (Cl. 139—47)



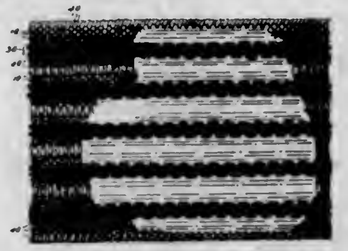
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2,638,129
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Firmin Gustave Henri Van Risseghem, Ghent, Belgium, assignor to Tissage Leonard Maere: Societe Anonyme, Ghent, Belgium, a company of Belgium
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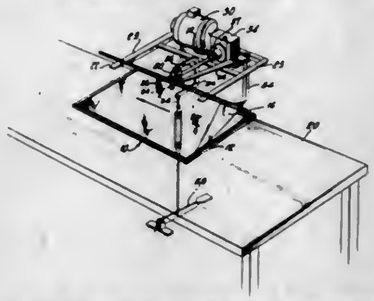
1. A double-cloth or compound woven fabric including a face cloth and a back cloth of a piled moisture absorbent fabric; said compound woven fabric comprising three sets of warps and three sets of wefts, two of said sets of warps and one of said sets of wefts being woven to form the piled back cloth, the other of said sets of warps and one other of said sets of wefts being woven to form the face cloth, and the remaining set of wefts binding together said face and back cloths of the compound fabric.

2,638,130
METHOD OF MAKING ELASTIC WEBBING AND PRODUCT THEREOF
Donald G. Posson, Needham, Mass.
Application March 7, 1950, Serial No. 148,059
12 Claims. (Cl. 139—421)



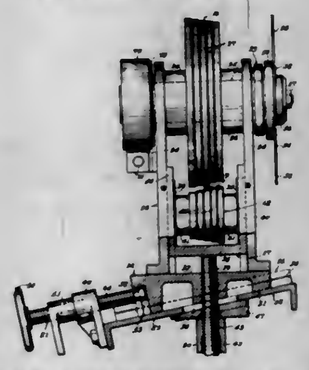
1. The method of weaving a slip-resisting elastic webbing having inextensible body warp threads, extensible body warp threads and exposed extensible warp threads raised above the body of the webbing, which consists in interweaving a filling yarn with said warp threads while holding the inextensible body warp threads taut, and while holding the extensible body warp threads and the exposed extensible warp threads under tension, with the extensible body warp threads stretched to a greater tension than the exposed extensible warp threads, whereby the tensions of the extended warp threads in the webbing are balanced.

2,638,131
FRAMING DEVICE
Joseph F. Rohs, Riverside, Conn., assignor, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass., a corporation of Massachusetts
Application January 14, 1949, Serial No. 70,896
2 Claims. (Cl. 140—109)



2. A framing device comprising in combination a support having an extended flat surface adapted to support a screen frame, a tiltable motor disposed outside of the perpendicular projection of the supporting surface, an elongated drive shaft carried by the motor and rotatable by the motor, the shaft extending within the perpendicular projection of the supporting surface, a splining roll on the shaft, the roll being movable by tilting of the motor toward and away from the supporting surface along a line intersecting the surface, a bearing on the shaft adjacent the roll, an offset link connected to the bearing, the link having a pair of arms extending around the edge of the support, and means on the side of the surface opposite to the bearing connected to the link for tilting the motor and urging the roll toward the surface, said link and last mentioned means being adapted to exert force on the bearing along a line passing through the surface and adjacent the line of motion of the roll.

2,638,132
FEED MECHANISM
Joseph B. Guess, Rosemead, Calif.
Application July 1, 1950, Serial No. 171,642
5 Claims. (Cl. 140—129)

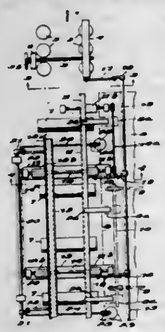


2. In a wire feed mechanism, in combination, a sloping support having its angle of slope transverse to the line of feed of a wire, a bracket slidably adjustable on said support along the angle of slope thereof, a pair of feed wheels carried on parallel axes by said bracket and between which extends said line of wire feed, each wheel being provided with a plurality of annular lands of successively different diameter and the angle defined by the lands of each wheel where the same engage the wire being the same as and parallel to the angle of slope of the support, means to adjust the spacing between the lands of the respective wheels, comprising an auxiliary bracket slidingly carried by the mentioned bracket and mounting one of said wheels and an adjusting stem engaged with the auxiliary bracket and carried by the sloping support, and means to intermittently drive the other of said wheels.

2,638,133
LINE UP TROUGH FOR RESAWING MACHINES
Walter A. Trapeur, Sutherlin, Oreg.
Application December 12, 1951, Serial No. 261,308
7 Claims. (Cl. 143—4)

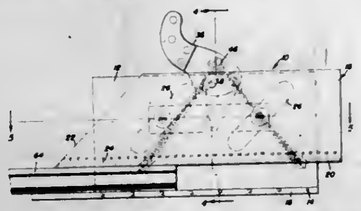
6. In a resawing machine in which a set of vertical feed-rolls are mounted in a transversely movable support and a set of horizontal live rolls are arranged to move cants into feeding engagement with said feed-rolls, the combination of a cant-guiding wall arranged above said horizontal

rolls and extending parallel with the feeding axis of said vertical rolls, means mounting said guide wall for movement transversely of said feeding axis, means interlocking said movable feed-roll



support and said guide wall for simultaneous movement of said vertical rolls to maintain the guiding face of said guide wall in alignment with the inner surfaces of said feed-rolls.

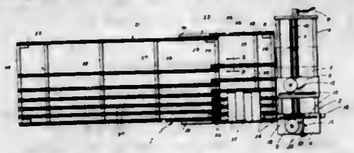
2,638,134
ADJUSTABLE MITER RULE ATTACHMENT
Walter T. Kearney, St. Louis, Mo., assignor of forty-nine per cent to Leroy Guittar, Sr., St. Louis, Mo.
Application December 23, 1949, Serial No. 134,636
5 Claims. (Cl. 143—86)



1. A combined mitre rule and vise, comprising a base having a fixed upstanding guide rail along one edge thereof, a mitre rule movably mounted on said base and having an edge parallel to and engageable with said rail, said rule having a second edge intersecting the first edge at an oblique angle and substantially aligned with an edge of the rail, means for guiding movement of the rule on the base in a direction parallel to said second edge with the first edge being maintained parallel to said rail, and means connected to said base and operatively connected to said rule for yieldingly urging said rule towards said rail for engaging a piece of work therebetween.

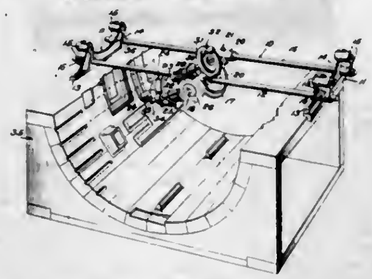
2,638,135
LUMBER RECEIVING TABLE FOR DOUBLE-ENDED TENONER
Homer H. Dedo, Merced, Calif.
Application June 12, 1951, Serial No. 231,240
2 Claims. (Cl. 143—132)

1. A table adapted to receive lumber from a milling machine, said table being elongated, projecting from immediately adjacent the discharge end of said machine, and comprising a fixed table section spaced from the machine, and a longitudinally slidable section normally occupying the space between said fixed table section and the machine; and the slidable table section being retractible in the direction of and part into the fixed table section; the fixed table section including longitudinal work-supporting rails, and



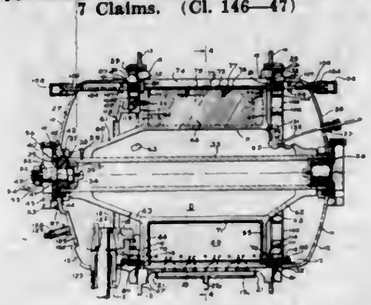
the slidable table section including outer corner legs, and longitudinal side rails extending alongside corresponding side rails of the fixed table section; and means on the fixed table section slidably supporting the rails of the slidable table section.

2,638,136
SURFACE MILLER
Olen L. Miller, Grantsville, Md.
Application May 13, 1948, Serial No. 26,819
3 Claims. (Cl. 144—136)



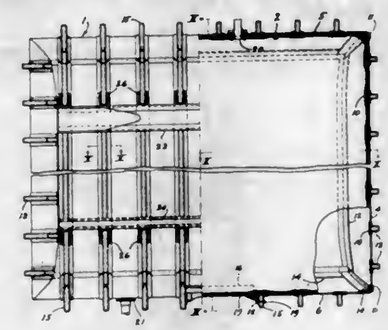
1. A milling and cutting device, universally adjustable and manipulable for various forms of work requiring operative straightaway movement of a component cutter element in crossed direction of travel, also with swingable movement of said element about a transverse axis, and a movement of the element longitudinally of itself, such device comprising a carriage including a pair of transversely spaced apart supporting bars fitted and supported at their end portions longitudinally slidable but releasably fastened in opposed riding-and-guide members, slide members mounted longitudinally on said supporting bars, means for releasably fastening the slide members to the bars, a yoke-like cradle member having diametrically opposed pivot stud extensions at its ends journalled supportedly in said slide members, one of said pivot stud extensions having a gear wheel mounted fixedly thereon, the adjacent slide member having bearing brackets overhanging said gear wheel, a worm-screw journalled in said bearing brackets and in constant mesh with said gear wheel, the shaft of said worm-screw having hand-operated provision for its rotation, a pair of spaced-apart carrier bars fitted and supported longitudinally adjustable on said yoke-like cradle member and together with said member being passable between the pair of supporting bars on the carriage, a clamping ring mounted at diametrically opposite points longitudinally slidable on said carrier bars, means for releasably fastening said clamping ring to said carrier bars, and a cutter element supported longitudinally slidable and releasably fastened in said clamping ring.

2,638,137
ROTARY STEAM PEELING MACHINE
William de Back, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application March 12, 1949, Serial No. 81,184
7 Claims. (Cl. 146—47)



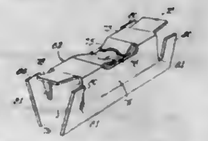
7. A steam peeler for fruits and vegetables comprising a casing and a rotor mounted for turning therein, said rotor having pockets therein for moving the products in said casing, and sealing means connected with each of said pockets to individually seal the latter in said casing comprising radially outwardly urged vanes disposed in sealing contact with the casing, and annular sealing means operatively disposed between said rotor and casing in axial contact with the pocket ends and with said vanes to thus completely seal each pocket of the rotor at the casing end thereof.

2,638,138
FUEL CELL SUPPORTING ENCLOSURE
Leonard J. Proebstle, Massillon, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware
Application January 7, 1949, Serial No. 69,738
5 Claims. (Cl. 150—51)



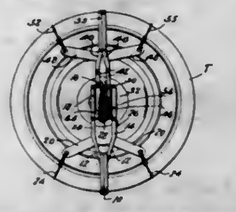
1. A supporting enclosure for flexible, large-capacity aircraft fuel cells, said enclosure comprising a shell composed of semi-rigid walls made of layers of resin-impregnated fibrous material, and substantially equally spaced light alloy metal ribs firmly attached to and running fully across the outside of each of said walls for stiffening the walls, but allowing visibly observable deformation of the walls between the ribs when acted upon by the fuel load.

2,638,139
CONNECTOR CLIP
William T. Koehlinger, Kalamazoo, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application February 28, 1948, Serial No. 12,012
1 Claim. (Cl. 151—41.75)



A connector clip for a window type frame comprising a channel-shaped structure having a bottom wall and spaced, generally convergent side walls; a pair of inturned, opposed, yieldable, thread-engaging fingers in said bottom wall; oppositely directed, resilient tongue portions formed at each end of the bottom wall; and yieldable locking tabs formed from the side walls at the terminal and base ends of said side walls.

2,638,140
TRACTION DEVICE
William P. Paulsen, Canton, S. Dak.
Application January 14, 1952, Serial No. 266,285
4 Claims. (Cl. 152—223)

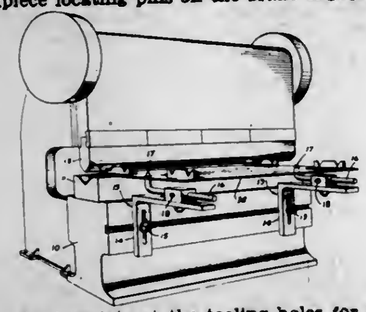


1. In a traction device aligned longitudinally extensible hooks adapted to engage the tread of a vehicle tire in diametrically opposed zones, arms carried by the hooks and extending laterally therefrom on opposite sides of the vehicle tire and flexible members connected to the arms and adapted to extend across the tread of the tire on opposite sides of the hooks, means for connecting said hooks together and contracting them into embracing relation to a vehicle tire comprising, telescopic yokes carried by the hooks, a hook member carried by one of said yokes for removably engaging the other yoke, and means carried by the first mentioned yoke and connected to the hook member for advancing and retracting said hook member longitudinally of the first mentioned yoke into and out of engagement with the second mentioned yoke.

2,638,141
SHEET METAL BENDING BRAKE
Roland Walter Skinner, Long Branch, Ontario, and Arthur George Frampton, Toronto, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application January 9, 1951, Serial No. 205,086
3 Claims. (Cl. 153—21)

1. A brake for bending sheet metal workpieces, comprising registering dies, at least one of which is reciprocatable, a removable template having guide means registrable with one of the dies and

having two spaced tooling holes, and two spaced workpiece locating pins on the brake engageable



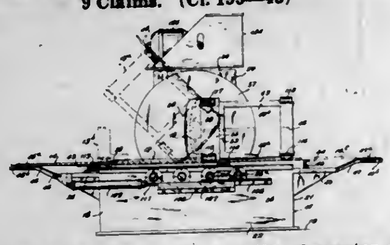
with the template at the tooling holes for location of said locating pins by the template.

2,638,142

BENDING MACHINE HAVING OSCILLATING ANVIL DIE AND RECIPROCABLE IRONING DIE

Lee B. Green, Lakewood, Ohio

Application February 14, 1951, Serial No. 210,965
9 Claims. (Cl. 153—43)



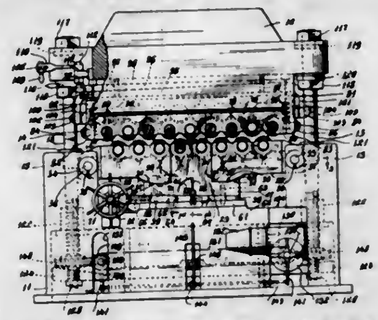
1. In a bending machine of the character described, a frame, means on said frame defining a longitudinal guideway, table portions on said frame extending longitudinally of said guideway and having their adjacent ends spaced apart to define a frame opening, an ironing die means adapted to receive a workpiece thereon and being adapted for rectilinear movement along said guideway and over said frame opening, an anvil die means, means mounting said anvil die means on said frame in a transversely extending relation to said guideway and for closing and opening movements relative to said ironing die means for clamping or releasing said workpiece, said mounting means also providing for swinging of said anvil die means in rocking cooperation with said ironing die means for bending the workpiece therebetween and around a portion of said anvil die means, first and second power devices operable to cause said opening and closing movements and said swinging movement of said anvil die means in succession, gripping devices associated with said ironing die means and said anvil die means and adapted for gripping engagement with said workpiece at spaced points thereof, roller means located in said frame opening and adapted to support said ironing die means against deflection by the clamping action of said anvil die means, cooperating gear elements interconnecting said ironing die means with said roller means, a double acting fluid pressure cylinder device mounted on said frame, and cooperating gear elements forming an operative connection between said cylinder device and said roller means.

2,638,143

ROLLER LEVELER

Frederick K. Maust, Queens Village, N. Y.

Application July 28, 1949, Serial No. 107,157
11 Claims. (Cl. 153—104)



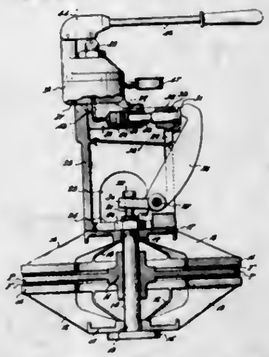
1. In a roller leveler, a row of upper and a row of lower straightening rolls, the upper straightening rolls being mounted in staggered relation to the lower straightening rolls, wings to sustain straightening rolls of one of said rows on the entry side and on the delivery side of the leveler, end supports to carry the remaining centrally located straightening rolls of said row, a common fulcrum for the wings on the entry side and another common fulcrum for the wings on the delivery side, means for pivotally connecting said wings to said end supports, means for vertically displacing said end supports of said centrally located straightening rolls for thus tilting said wings on the entry and delivery side around their respective fulcrums in such a manner that the apices of the angles of tilt of the respective wings on the entry and exit side are directed toward said centrally located straightening rolls.

2,638,144

CLAMP AND ACTUATING MECHANISM THEREFOR FOR SETTING ADHESIVELY BOUND FACINGS TO CLUTCH PLATES

Joseph V. Urbano, Newark, N. J.

Application June 26, 1952, Serial No. 295,771
5 Claims. (Cl. 154—1)



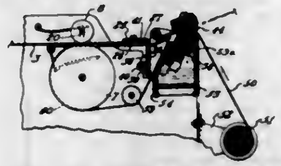
1. Clamping apparatus of the character described comprising a pair of clamp plates between which a clutch plate and facing material to be bonded thereto by interposed adhesive can be received, a tie rod extending from one clamp plate axially through the other clamp plate, a force transmission means adapted to be removably mounted on said last named clamp plate and including a pivoted bell-crank lever, cooperative means for detachably coupling one arm of said lever to the free end of said tie rod, pressure applying means adapted to be supported by said force transmission means and manipulatable to exert force transmitting pressure upon the other arm of said lever, and a locking nut threaded onto the free end of said tie rod to engage said last named clamp plate, whereby to hold said clamp plates in clamping relation to the interposed clutch plate and facing material after the force transmission means and pressure applying means are removed from the clamp plates.

2,638,145

GUMMED TAPE SERVING MECHANISM

Robert A. Havemann and Donald S. Bruce, Troy, Ohio, assignors to The Gummed Products Company, Troy, Ohio, a corporation of Ohio

Application March 17, 1950, Serial No. 150,222
6 Claims. (Cl. 154—1.7)



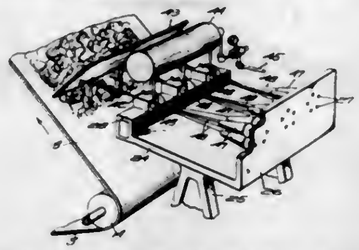
3. In a gum tape serving machine, means for serving predetermined cut-off lengths of tape and means for feeding a moistened tear string into contact with the tape and along a median line lengthwise of said tape prior to its being cut off, said last mentioned means comprising a feed roller having an annular groove therein.

2,638,146

REINFORCED PAPER AND METHOD AND APPARATUS FOR THE MANUFACTURE THEREOF

Ellsworth A. Rounseville and Ralph G. Estee, Attleboro, Mass., assignors to Glas-Kraft Inc., Lonsdale, R. I., a corporation of Massachusetts

Application January 7, 1949, Serial No. 69,698
27 Claims. (Cl. 154—1.76)



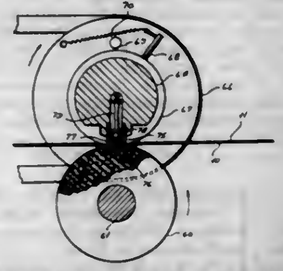
1. The method of making laminated reinforced paper comprising coating one side of a first sheet of paper with a layer of adhesive, pulling a plurality of continuous lengths of unbalanced spun fibers having a torsional stress from a source thereof, conveying said fibers to the coated surface while maintaining at least a part of said stress in each fiber, allowing the stress to become relieved at least in part by letting the fibers take randomly looped paths on the coated surface, and thereafter pressing a second sheet of paper onto said coated surface, said fibers sinking into the adhesive to permit the latter to bond the two sheets of paper together.

2,638,147

SEALING MEANS

Raymond J. Nebel, Lincoln Park, N. J.

Application February 2, 1950, Serial No. 141,952
4 Claims. (Cl. 154—42)



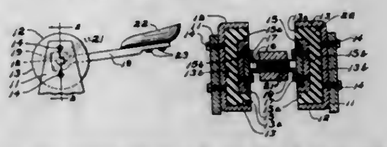
1. In a machine for forming bags from a traveling casing of fusible material having opposed walls fusible together over transverse zones adjacent the ends of the bags to form heat seals through said zones with the lengths of the bags being controlled by the casing speed; powered means for causing travel of said casing at a preselected casing speed within a preestablished range to define said lengths; sealing mechanism for effecting said seals during said travel and comprising a rotatable member adapted to be engaged by said casing throughout its travel and connected to and rotated by said powered means at a speed commensurate with said casing speed, a clutch device connected to and operated by said powered means, a fusing member normally connected to said powered means by said device and rotatably by the latter into engagement with said casing at a speed out of said range to establish fusing relation with said zones, said fusing member being releasable from said powered means by said device in response to the speed of said rotatable member upon engagement of said fusing member with said casing whereby said fusing member accords with the speed of said casing to effect dwells with said zones during said engagement to thus form heat seals through said zones at any speed of said casing within said range.

2,638,148

SEAT SUSPENSION

Herbert H. Fink, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

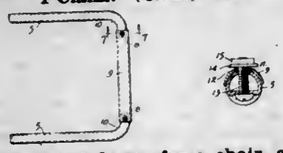
Application July 30, 1947, Serial No. 764,759
3 Claims. (Cl. 155—51)



1. A seat suspension comprising a supporting structure, a pair of springs mounted on said supporting structure, said springs being spaced-apart axially and arranged to transmit the total supported load through them, each of said springs

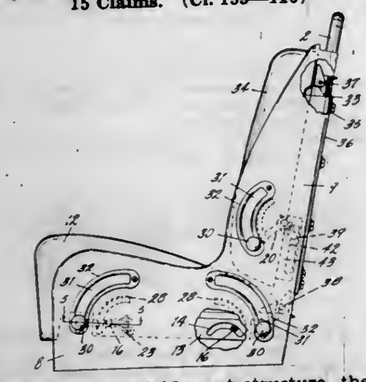
comprising inner and outer dished members in nested relation having bodies of resilient rubber-like material therebetween bonded to opposing surfaces of said dished members resisting relative movement of said surfaces and said material by the bonded union, said dished members of each spring being disposed with cavities facing the other spring, a seat-supporting arm structure having a portion disposed at a position intermediate said springs and secured to a dished inner member of each spring in such relation that circumferential movement of said arm structure and connected dished members is cushioned torsionally by said bodies of resilient rubber-like material and longitudinal and lateral movements of the arm structure are cushioned by portions of said bodies in compression, said arm structure being completely cushioned in all directions by portions of said bodies of rubber-like material.

2,638,149
TUBULAR METAL CHAIR FRAME
Charles J. Janosek, Cleveland, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application November 26, 1949, Serial No. 129,645
1 Claim. (Cl. 155—54)



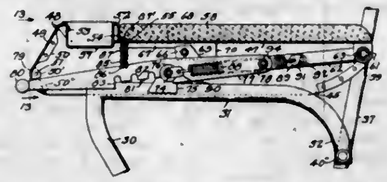
A tubular steel frame for a chair, comprising two vertical spaced separate U-shaped steel tubular side members, the lower end of each such member bent to a 90° angle to the plane formed by such member and each such end being substantially flattened on its lower side, each such bent and partially flattened end being bolted to a steel partially tubular semi-hemispherically shaped frame tying member which joins the two said separate U-shape steel tubular side members.

2,638,150
ADJUSTABLE SEAT STRUCTURE
Vivian G. May, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich.
Application February 7, 1951, Serial No. 209,806
15 Claims. (Cl. 155—116)



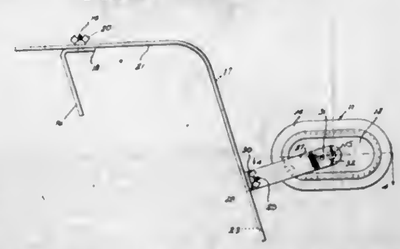
15. In an adjustable seat structure, the combination of a frame, a seat member mounted on said frame for tilting adjustment, a back support mounted on said frame for vertical sliding adjustment and to which the rear end of said seat is swingably connected, a back member hingedly connected adjacent its upper end to said back support, and means for adjustably supporting the lower end of said back member.

2,638,151
SEAT FOR VEHICLES SUCH AS AIRCRAFT
Gordon Karl Jones, Tujunga, Calif.
Application April 17, 1950, Serial No. 158,471
5 Claims. (Cl. 155—159)



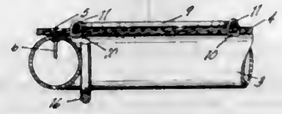
1. In a reclining seat structure, a seat bottom, side frames secured to and extending upwardly from the respective sides of said seat bottom, each of said side frames having an upper generally horizontal member, a seat back having a lower corner hingedly connected to a respective side frame, and a combined arm rest and reclining mechanism comprising a shell of inverted channel shape including side wall members at least partially embracing said upper side frame member, said shell being pivotally connected at its rear extremity to said back frame, a pair of telescoping guide members one of which is attached at its respective ends to said shell and the other of which is attached at its forward end to said upper side frame member, means yieldingly urging said telescoping members into telescoping relation and thereby urging said back frame forwardly with reference to said side frame, and a lever pivotally attached at its rear end to said first mentioned telescoping member and projecting forwardly from said arm rest at its forward end, said lever having in its intermediate portion, means cooperating with the connection between said other telescoping member and said upper side frame member to latch said arm rest in various positions of adjustment relative to said side frame member.

2,638,152
HEADREST
Newell B. Pulsifer, Livermore Falls, Maine
Application January 16, 1948, Serial No. 2,673
4 Claims. (Cl. 155—177)



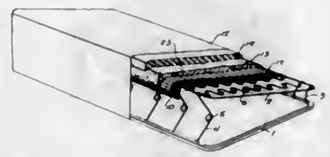
1. In a head rest device for use on a chair back, a rear leg adapted to extend vertically along the rear of the chair back, said rear leg having an arm on its upper end adapted to overlie the top of the chair back, a front leg adapted to extend vertically along the front of the chair back, said front leg having an arm on its upper end adapted to overlie the top of the chair back, the arms of said rear and front legs being in overlying relation, means securing said arms together in selected longitudinal adjustment to produce engagement of the rear and front legs with the rear and front of the chair back, a bracket having an end adapted to carry a head rest and another end, and means for securing said other end of said bracket to said front leg at selected vertical points along said front leg.

2,638,153
SPRING STRUCTURE
William A. Clark, Detroit, Mich.
Application June 29, 1951, Serial No. 234,330
6 Claims. (Cl. 155—179)



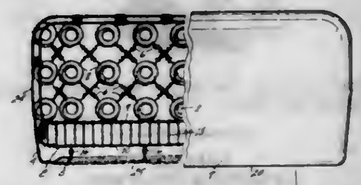
1. In a spring structure, the combination of a tubular frame, a spring supporting panel of rigid nonmetallic material fixedly secured to the frame, helically coiled body springs disposed with their bottom coils resting on said panel, and staples driven through said panel from the underside thereof with their prongs straddling and clampingly wrapped in opposite directions and in side by side relation upon the bottom coils of the springs to clampingly secure the coils to the panel, the tips of the prongs being imbedded in the panel, there being a pair of diametrically opposed staples for each spring.

2,638,154
CONSTRUCTION IN UPHOLSTERED ARTICLE SUCH AS A SEAT
Alexander H. Dewees, Detroit, Mich.
Application April 17, 1950, Serial No. 156,245
2 Claims. (Cl. 155—181)



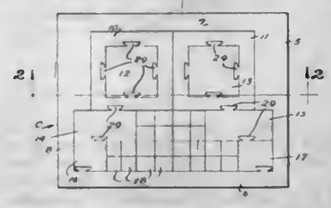
1. An upholstered article, such as a seat, a mattress, or the like comprising, an underlying spring structure and an overlying padding, a platform disposed between the spring structure and the padding to protect the padding including, two body sheets, each composed of at least one sheet of elastic plastic material, and a plurality of flexible plastic filaments having elastic characteristics disposed between the body sheets, said filaments being spaced from each other, the facing surfaces of the sheets and the filaments therebetween being adhered together to maintain the spacing of the filaments and to hold the filaments against lengthwise displacement relative to the sheets, the elasticity of the body sheets and of the filaments accommodating flexing action of the underlying spring structure.

2,638,155
CUSHION SPRING STRUCTURE
William A. Clark, Detroit, Mich.
Application May 31, 1951, Serial No. 229,165
10 Claims. (Cl. 155—181)



1. In a spring structure, the combination of a base, upright helically coiled body springs carried by said base, resilient ties for the top coils of said springs, a rear rail carried by said base and disposed in rearwardly spaced relation to the body springs, an upholstery supporting strip disposed between the body springs and rail and comprising a helically coiled springably extensible front member, a nonextensible rear member, spaced connecting members clampingly engaging said front and rear members, clips securing the front member to the top coils of adjacent body springs, and spaced helically coiled extension spring connecting the rear member to said rear rail.

2,638,156
CUSHION
Oscar A. Berman, New York, N. Y.
Application August 18, 1951, Serial No. 242,460
8 Claims. (Cl. 155—182)



1. In a cushion of the character described, a plurality of deformable segments of varying shapes and varying resiliency, two of said segments being spaced apart on either side of and back of the center of said cushion, said two segments being spaced parallel to each other and being adapted to support the ischial tuberosites of the pelvis of the person sitting thereon, each of said two segments being surrounded by another segment of less density, and means for joining each of segments to the contiguous segments, said means comprising projections and recesses to interlock adjacent segments together.

2,638,157
EDGE ROLL FOR UPHOLSTERY AND THE LIKE
Wayne S. Cook, Grand Rapids, Mich., assignor to Sackner Products, Inc., a corporation of Michigan
Application June 20, 1949, Serial No. 100,166
3 Claims. (Cl. 155—184)

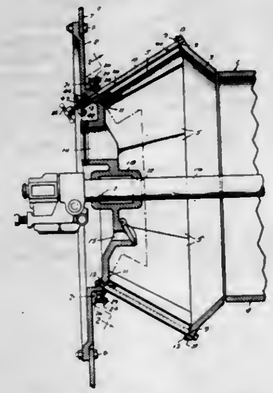
2. An edge roll comprising a strip of felt of substantial thickness double folded longitudinally upon itself with one edge projecting beyond the other, the bight portion of the first fold being folded inwardly and disposed in superimposed

spaced relation to the narrower of the unfolded portions of the strip and secured thereto by



stitching through the bight and both unfolded portions of the strip.

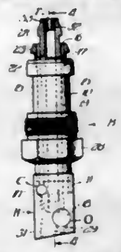
2,638,158
REGISTER CONTROL
Kenneth A. Spearing, Leatherhead, England, assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application April 19, 1950, Serial No. 156,871
7 Claims. (Cl. 158—1.5)



1. In a register having a plurality of circumferentially arranged peripheral doors mounted to rotate about non-parallel axes and forming a frustum of a cone when closed, means interconnecting said doors for operation in unison comprising a plurality of links, a bracket carried by each of said doors and extending radially of its axis of rotation, a pair of connectors rotatably secured to each of said brackets with the axes thereof perpendicular to said brackets, each of said links extending between connectors on adjacent doors, and each of said connectors having means connecting the end of a link thereto for rocking movement about an axis lying in a plane perpendicular to the axis of the connector.

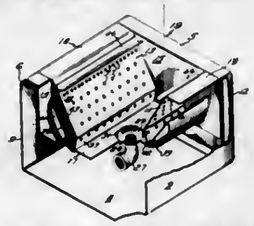
2,638,159
POST-MIX, MULTIPLE OUTLET GAS BURNER
Harvey E. Winkelman and Roy E. Hinger, Cleveland Heights, Ohio, assignors to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application November 26, 1948, Serial No. 61,942
3 Claims. (Cl. 158—27.4)

1. A flame blasting and surface coating removing burner, comprising an elongated head portion having two separate elongated chambers therein for a combustible mixture of fuel gas and oxygen and for oxidizing gas, respectively, first passage means transverse to said elongated chambers to deliver separately streams of said combustible mixture and said oxidizing gas from said chambers and terminating in discharge orifices in parallel rows extending lengthwise of said head portion at one face thereof, said parallel rows comprising a pair of rows of orifices for said oxidizing gas, and a row of orifices for said combustible mixture, the said orifices for oxidizing gas in said pair of rows being in spaced alignment with each other transversely of said head portion and in staggered relation to said orifices for combustible mixture and spaced therefrom in a single direction, the longitudinal axis of each passage leading to each



orifice of said group of spaced aligned orifices being convergent with respect to the longitudinal axis of the passage leading to an adjacent spaced aligned orifice and toward a point outside said head portion, and the longitudinal axis of each passage leading to one of said orifices for said combustion mixture being inclined toward a region disposed between the points of convergence of the longitudinal axes of adjacent pairs of spaced aligned oxidizing gas orifices, and additional separate passage means for separately delivering a combustible gas mixture and an oxidizing gas to their respective chambers.

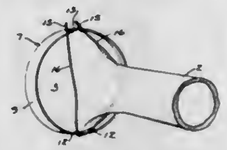
2,638,160
POT TYPE FUEL OIL BURNER
John W. Thomson, Oakland, Calif., assignor to Benner-Nawman, Inc., Oakland, Calif., a corporation of California
Application December 29, 1950, Serial No. 203,360
4 Claims. (Cl. 158—91)



1. In an oil burner, a burner casing having opposing side walls and opposing end walls, said casing having an opening at the top providing a burner throat and a flat wall forming the bottom of the interior of the burner, said side walls having lower sections extending in convergent relation upwardly from said bottom wall to define with lower portions of said end walls an oil vaporizing chamber, and said side walls having upper sections extending angularly upwardly from said lower sections and defining with the upper portions of said end walls a combustion chamber communicating with said vaporization chamber, means to supply a film of oil over said bottom of the burner, air inlet means in said upper wall sections, and air inlet means in said lower wall

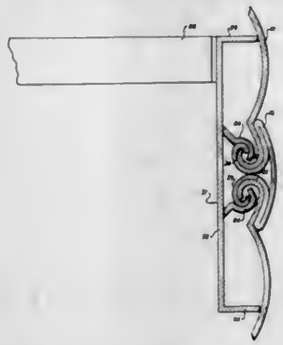
sections providing for sole supply of air to said vaporization chamber from the exterior of the burner, said means directing air streams into and across said vaporization chamber exclusively above and spaced from the oil level in said chamber.

2,638,161
AIR SHUTTER FOR GAS BURNERS
Don F. Jones, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application August 8, 1949, Serial No. 109,138
14 Claims. (Cl. 158—118)



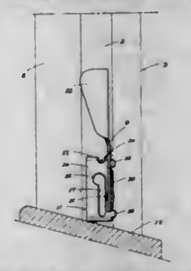
1. A shutter assembly for the mixing tube of a gas burner comprising a shutter and a hairpin spring, a connection between the bight portion of said spring and the peripheral portion of said shutter, and a keeper fixed on the peripheral portion of said shutter and positioned generally diametrically opposite said connection and adapted for interengagement with the free ends of said spring, said spring extending generally diametrically of said shutter between said connection and said keeper when the free ends of said spring are engaged within said keeper.

2,638,162
WINDOW CORNICE AND SUPPORT
Eugene V. Heitlinger, Irving Fields, and Alfred C. Ray, Chicago, Ill.
Application July 8, 1948, Serial No. 37,616
11 Claims. (Cl. 160—38)



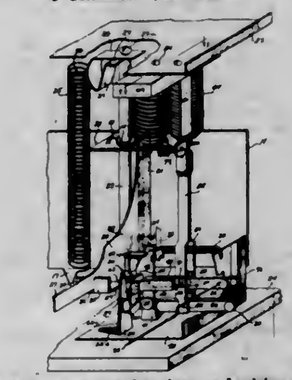
5. A locking strip for window cornices having a plurality of laterally aligned corrugated strips, the adjacent edges of which are folded inwardly, comprising a metal strip having a convex face, the edges of the strip being folded inwardly in a reverse bend following the concave back of the convex face thereof approximately into contact with each other and then curving rearwardly and laterally in a diverging path for sliding engagement with the adjacent edges of the cornice strips.

2,638,163
BRACKET UNIT FOR TENSION SCREENS
David Jordan Rust and Jack H. Jensen, San Leandro, Calif., assignors to Ry-Lock Company, Ltd., San Leandro, Calif., a corporation of California
Application April 30, 1951, Serial No. 223,763
1 Claim. (Cl. 160—328)



A bracket adapted to be secured against the transversely extending side of a blind stop of a window frame for mounting the working part of a screen tensioning device, said bracket comprises an upstanding attachment plate adapted to engage said side of the stop, a bracket plate projecting laterally inward from the outer edge of the attachment plate on which to mount said working part, the attachment plate having a vertical key-hole slot to receive a headed screw premounted in the blind stop to engage the slot intermediate its ends when the plate is in an operative position, and ears on one vertical edge of the attachment plate disposed in a plane parallel to the slot to overlap and engage a lateral side of the blind stop whereby the plate is slidably disposed on the stop; said plate at the top being provided with a centering notch alined with the slot to provide a locating means for a screw prior to the mounting of the same when the plate is slid down to engage the sill of the window frame.

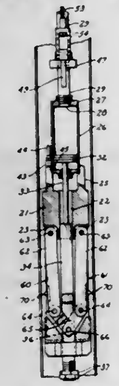
2,638,164
CONTROL MECHANISM
Joseph N. Victor, Bethlehem, Pa.
Application June 16, 1950, Serial No. 168,607
6 Claims. (Cl. 161—1)



1. In a locking mechanism, a locking arm having a pivotal support at one end and having a locking-ear at the other end, a link, a cocking arm having a pivotal support at one end, said link secured at one end to said locking arm be-

tween the pivotal support and the locking ear thereof and connected at its other end to said cocking arm, a spring at all times urging said locking arm into non-locking position, said locking arm being moved to locking position by aligning the points of connection between said link and said cocking and locking arms with the pivotal support of said cocking arm.

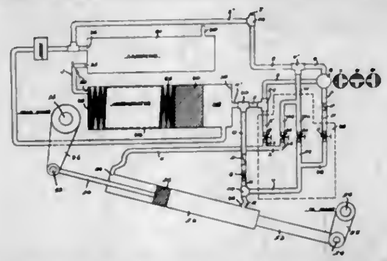
2,638,165
WELL PERFORATOR
Louis D. Barber, Burbank, Calif.
Application January 24, 1948, Serial No. 4,185
6 Claims. (Cl. 164—0.3)



1. A device for perforating a well casing or the like, including: a body member adapted to be lowered into the casing and having at least two radial openings therein and provided with cam surfaces; a perforating member supported by said body member; a slide member slidable vertically in said body member and operatively connected to said perforating member to cause movement thereof to perforate said casing; fluid actuated means for sliding said slide member; a freely suspended gripping member slidable radially in each of said openings and adapted to engage the interior of the wall of the casing, each gripping member having at least one cam surface engageable by one of said cam surfaces of said body member during vertical sliding movement of said gripping member so that each gripping member is slid radially outward into engagement with said casing wall to retain the device in selected positions in the casing; a holder slidable longitudinally of said body member and suspended from a cable lowered into the casing; and links connected between said holder and the upper ends of said gripping members for suspending said gripping members in said openings.

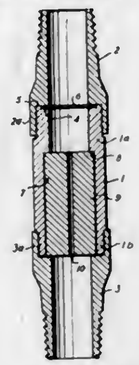
2,638,166
GUILLOTINE KNIFE HYDRAULIC CLAMP
Frederick W. Seybold, Westfield, N. J., assignor to E. P. Lawson Co., Inc., New York, N. Y., a corporation of New York
Application August 20, 1948, Serial No. 45,285
12 Claims. (Cl. 164—54)

1. Reciprocating operating mechanism comprising a vertically reciprocating first member; driving members therefor and a vertically reciprocating second member; means connected between the driving members for the first member and the second member for driving the second member; said means including a fluid filled coupling between the driving members for the first member and the second member; said fluid filled coupling comprising a reciprocating driving member connected to and movable by the driving means for the first member and a reciprocating driven member connected to the second member; a fluid connection between the driven member and the driving member; said fluid connection transmitting the force of said driving member to said driven member for each direction



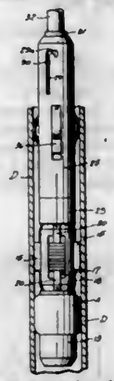
of movement of said driving member; said fluid connection comprising a pair of separate fluid chambers, one transmitting force from the driving member to the driven member for one direction of movement of the driven member and the other transmitting force from the driving member to the driven member for the opposite direction of movement of the driven member and control apparatus for supplying fluid under pressure to either chamber for moving the driven member in the direction determined by the chamber to which said fluid under pressure is supplied.

2,638,167
SEAL FOR WELL TUBING
Edward N. Jones, Pettus, Tex.
Application June 28, 1948, Serial No. 35,571
6 Claims. (Cl. 166—2)



1. In a seal for well tubing, the combination of a sleeve having means for mounting said sleeve to form a part of the tubing, a choke plug in said sleeve and having a reduced portion with an axial bore extending within the reduced portion, a closure closing the upper end of the bore and constructed of acid-dissolvable material, a central depression in the upper end of said closure adapted to confine acid inserted above the plug to direct the dissolving of the closure to that portion thereof above the axial bore, a packing ring, expansible radially of said portion, an expanding collar, axially movable on said portion, and means on said portion for moving said collar to expand said ring to effect a seal between said sleeve and said plug.

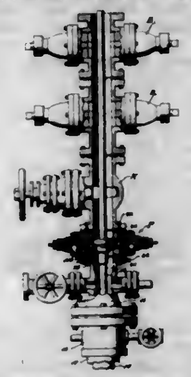
2,638,168
WELL PACKER
Asbury S. Parks, Houston, Tex.
Application July 31, 1948, Serial No. 41,810
8 Claims. (Cl. 166—12)



1. A well packer adapted to be lowered on a well pipe within a well casing including, a mandrel having a connection with said well pipe which connection is movable into a first position preventing relative longitudinal movement of the pipe with respect to the mandrel and is movable into a second position permitting longitudinal movement of the pipe relative to the mandrel, anchoring means carried by the mandrel and arranged to be moved outwardly into engagement with the well casing for locking the mandrel against movement within the casing, an annular elastic packing element mounted on the mandrel and adapted to be moved radially outwardly into sealing engagement with the well casing, a hydraulic fluid chamber communicating with the interior of the packing element, hydraulic fluid in said chamber and piston means having connection with the well pipe and moved within the chamber by the imposition of weight upon the well pipe when the connection between the pipe and mandrel is in its second position allowing longitudinal movement of the pipe with respect to the mandrel for applying pressure to the fluid within said chamber to apply an internal pressure to the packing element to thereby move the same radially outwardly into sealing engagement with the well casing.

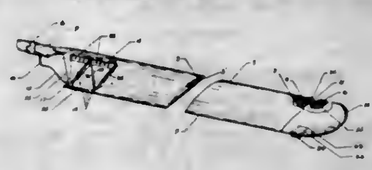
2,638,169
PROTECTOR FOR OIL WELL EQUIPMENT
Robert L. Crain, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas
Application February 11, 1947, Serial No. 727,826
3 Claims. (Cl. 166—14)

1. Apparatus for protecting the interior sealing surfaces of equipment used in the construction of an oil well, while passing a pipe carrying a tool thereon into a previously landed well casing comprising a housing having flat top and bottom surfaces with means for removably attaching the same between the flange of a casing head and that of control equipment mounted above the head, said housing having a vertical bore therethrough of diameter greater than that of the well casing, at least three hard metal protecting shoes mounted in said housing at equally spaced points around said bore and for radial movement into said bore and each having means for limiting their inward movement, said shoes having arcuate surfaces at their inner ends to define a fixed vertical guide opening through the housing when advanced therein of diameter regulated by said



limiting means less than that of said bore, the inner ends of said shoes also having upper and lower beveled surfaces on opposite sides of said arcuate surfaces for centering the end of the tool in said guide opening, said guide opening defined by the inner limit of movement of said shoes being of size substantially equal to the interior diameter of the well casing and of diameter substantially greater than that of the pipe carrying the tool thereon.

2,638,170
AIRCRAFT PROPELLER OR ROTOR
Richard H. Prewitt, Wallingford, Pa.
Application January 28, 1947, Serial No. 724,836
15 Claims. (Cl. 170—159)

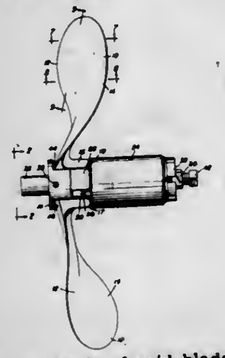


1. In an aircraft, a blade comprising a main structural member near the leading edge thereof, an external cover, chord supporting members aft of said main structural member formed of metal and incorporating angular shear tab extensions adhesively secured to the aft face of the main structural member, and a bonding adhesive layer between the contiguous juxtaposed surfaces of the external cover and the chord supporting members and the main structural member, to bond them all into a structural entity.

2,638,171
AUTOMATIC VARIABLE PITCH PROPELLER
Freeman C. Foss, Twin Falls, Idaho
Application September 30, 1947, Serial No. 777,004
1 Claim. (Cl. 170—160.51)

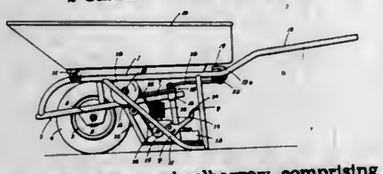
In a controllable pitch propeller, a body member of longitudinal form and having a longitud-

inal axis, a sleeve concentrically located on the exterior of a part of said body member and slidable axially of said body member, means operatively connected with said sleeve and said body member yieldingly restricting relative axial movement of said sleeve and said body member, a bearing at one end of said body member, said bearing having openings therein each of which has a longitudinal axis perpendicular to said body member axis, blades, pivot pins secured to the root ends of said blades and disposed in said openings thereby rotatatively mounting said blades about axes of rotation normal to said longitudinal axis of said body member, cams



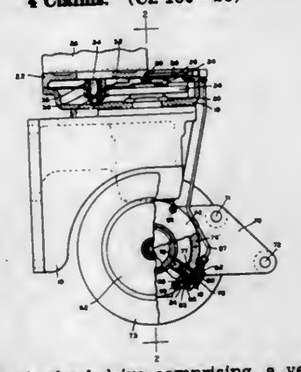
fixed to the root ends of said blades and each cam having a land, complemental cam means on said sleeve contacted by said cams so that when said blades are rotated a predetermined amount to move the sleeve away from said one end of said body member, said lands rest upon said cam means to retain said blades rotated, adjustable means on said body member and in the path of rotation of said cams for limiting the rotation of said blades as the sleeve is moved toward the said one end of said body member, and means comprising curved trailing edges of each of said blades for rotatively urging said blades to varied positions of blade pitch angle.

2,638,172
POWER DRIVEN WHEELBARROW
George Borchin and Ernest A. Smith, Mokelumne Hill, Calif.
Application February 7, 1950, Serial No. 142,922
2 Claims. (Cl. 180—19)



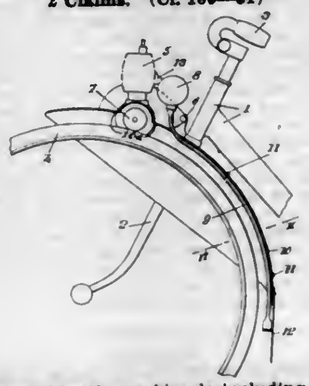
1. A power driven wheelbarrow comprising a barrow supporting frame, a wheel supporting the frame adjacent its forward end, transversely spaced barrow lifting and manipulating handles projecting rearwardly from the frame, means vertically hinging one handle at its forward end on the frame for lateral swinging movement toward the other handle from a normal position, a pair of parallel transversely spaced longitudinal members incorporated with the frame and projecting rearwardly of the wheel, a spring retracted slide unit mounted on the members, a power plant mounted on the unit and including a rotary driven element to drivingly engage the wheel, and linkage connected between said laterally movable handle and the slide unit to advance the latter so that the element engages the wheel upon such lateral movement of said handle; said linkage comprising an arm rigid with said handle at its hinged end and extending laterally toward the other handle, a transversely extending link connected between the inner end of said arm and the other handle, and a longitudinal link connected between the slide unit and the first named link.

2,638,173
DUAL WHEEL DRIVE WITH LUBRICATING MEANS
Elmer J. Dunham, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 31, 1950, Serial No. 165,333
4 Claims. (Cl. 180—26)



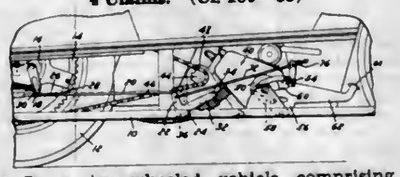
1. A dual wheel drive comprising, a vertically extending pinion shaft housing, a pinion shaft rotatably mounted therein, a gear casing secured to the upper end of said pinion shaft housing, a gear disposed in said gear casing mounted to the upper end of said pinion shaft, means for rotating said gear, a cover member secured to said gear casing, a fluid passageway in said pinion shaft opening at the upper end of the latter and at the outer periphery of the latter, said passageway being adapted to direct fluid to the outer periphery of said pinion shaft for lubricating the latter, a fluid passageway in said cover member opening at its one end above said fluid passageway in said pinion shaft, a drive pinion secured to the lower end of said pinion shaft, a drive axle housing secured to the lower end of said pinion shaft housing, a differential mechanism comprising a differential case disposed in said drive axle housing, a cam groove formed in the periphery of said differential case, a lubricating pump mounted in the drive axle housing, said pump comprising a cylinder, a piston movable therein, a follower pivotally mounted to the end of said piston and biased into engagement with said cam groove whereby said follower and said piston are reciprocated when said differential case is rotated, means for conveying fluid from said pump to said fluid passageway in said cover member, horizontal coaxially aligned drive axles mounted for rotation in said drive axle housing, said differential mechanism effecting driving connection between said drive pinion and said drive axles, and wheels mounted to the outer ends of said drive axles.

2,638,174
EXHAUST DEVICE FOR MOTOR BICYCLES
Marcel Mennesson, Neuilly-sur-Seine, France, assignor to "Societe d'Appareils de Controle et d'Equipement des Moteurs" (S. A. C. E. M.) S. A. R. L., Seine, France, a society of France
Application October 25, 1949, Serial No. 123,423
In France November 25, 1948
2 Claims. (Cl. 180—31)



1. In combination, a bicycle including a frame for supporting a rear wheel, a front fork pivoted in said frame, a front wheel journalled in said front fork, an internal combustion engine for driving said front wheel pivoted to said fork about a horizontal axis, a roller driven by said engine adapted to run on the periphery of said wheel, a mud-guard of U-shaped section rigid with said fork surrounding a portion of said front wheel and extending rearwardly to a short distance from the ground, and a tube running along the inner wall of said mud-guard and fixed thereto, the top end portion of said tube extending upwardly through said mud-guard and being connected to the exhaust of said engine, and the bottom end of said tube being open to the atmosphere for the outflow of the exhaust gases.

2,638,175
STARTER BRAKE FOR POWER CYCLES
Axel I. Poulsen, Detroit, Mich., assignor to Fred H. Johnson
Application August 30, 1950, Serial No. 182,314
4 Claims. (Cl. 180—33)



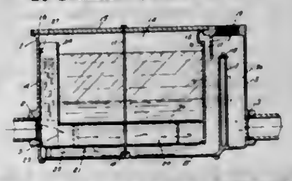
1. In a two-wheeled vehicle comprising a frame and means thereon to support two passengers in fore and aft positions, an engine in said frame, a brake mechanism on one of said wheels, a brake actuating arm, a first pedal on said vehicle connected to said arm to actuate the same in response to foot pressure, a second pedal on said vehicle connected to said arm by a lost-motion device, a starter mechanism actuated by a pinion gear, and a rack connected to said second pedal to engage and actuate said pinion in a portion of the stroke of said pedal, the remainder of the stroke serving to actuate said brake arm.

2,638,176
MARINE SEISMIC SURVEYING
Waddie W. Doolittle, Picayune, Miss., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application February 23, 1949, Serial No. 77,776
5 Claims. (Cl. 181—.5)



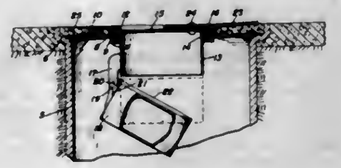
1. The method of seismic surveying in water-covered areas which comprises positioning a spread of seismic-wave detectors spaced along a towing and conductor cable near the water surface at a desired location, supporting at the water surface portions of said cable between and laterally distant from each of said detectors, slowly lowering said detectors and the portions of said cable adjacent to each detector through the water below said water surface, generating seismic waves, and receiving the resultant seismic waves reaching said detectors while they are sinking.

2,638,177
SEPARATING DEVICE
Kalman Heindlhofer, Erie, Pa., assignor to J. A. Zurn Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application June 3, 1949, Serial No. 96,935
10 Claims. (Cl. 182—9)



1. A separator for separating matter of varying densities comprising a container having an inlet and an outlet in the lower portion thereof, a diverging passageway formed by opposed inner baffles leading from said inlet, and outer baffles spaced from the outer walls of said container for providing a reverse path for the flow of liquid emanating from said diverging passageway.

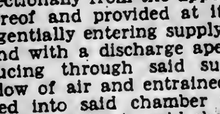
2,638,178
BACKFLOW CHECK FLOAT FOR SEWERS
Oris W. McRill, Centralia, Ill., assignor of twenty-five per cent to Harry C. Riechman, Centralia, Ill.
Application July 17, 1950, Serial No. 174,210
1 Claim. (Cl. 182—25)



A backflow check for sewer drain pipes comprising a plate supported in the drain pipe and having a central opening, a ring positioned in the

opening, radial arms on the ring resting on the plate, an inwardly projecting flange on the ring, a drain tube having a flange at its upper end supported by the first-named flange, sealing means between said flanges, sealing means covering the plate and arms and extending from the edge of the drain pipe to the edge of the ring, and a float pivoted to the lower end of the tube for vertical swinging movement to close the tube by the raising of the float.

2,638,179
DRYING CAPSULE
Edward M. Yard, Trenton, N. J.
Application January 6, 1950, Serial No. 137,045
2 Claims. (Cl. 183—4.8)

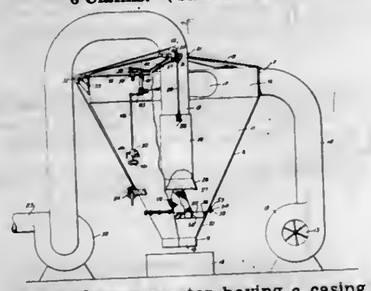


1. A drying agent consisting of a gelatin capsule containing a desiccating material.

2,638,180
AIR FILTER
Herbert Herkimer, New York, N. Y.
No Drawing. Application December 21, 1949, Serial No. 134,358
4 Claims. (Cl. 183—45)

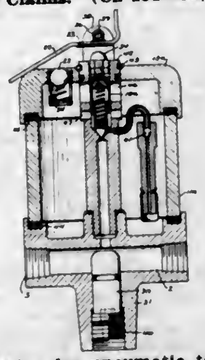
1. A method for the control of bacteria within a given air space comprising the impingement of a part of the air against a filter coated with a mixture of tricresyl phosphate, a free liquid glycol and a quaternary ammonium invert soap until the filter is dusty and then wetting the filter with water before disposal of the filter.

2,638,181
MECHANISM FOR SEPARATING AIR-BORNE MATERIALS
Elwin V. Gordon, San Leandro, Calif., assignor to Farm Production Engineers, Inc., Oakland, Calif., a corporation of California
Application May 31, 1949, Serial No. 96,332
6 Claims. (Cl. 183—83)



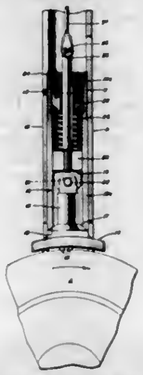
1. In a cyclone separator having a casing enclosing an axially vertical chamber diminishing cross-sectionally from the upper to the lower end thereof and provided at its upper end with a tangentially entering supply duct and at its lower end with a discharge aperture, means for introducing through said supply duct a sustained flow of air and entrained material to be separated into said chamber to thereafter whirl circumferentially in said chamber whereby heavier components of the mass of material will move outwardly therefrom by centrifugal force to engage a wall of said chamber and whereby said heavier components and the remaining waste elements of said material mass will each move by gravital force toward said discharge aperture of the chamber, a suction duct entering said chamber and having a throat opening disposed in spaced relation to and above said discharge aperture, means for establishing a suction draft in said suction duct to attract and carry into and through said duct said waste elements of the material mass and to induce an upward flow of air from exteriorly of and through the discharge aperture toward the suction duct so as to substantially arrest gravital movement of said waste elements downwardly in the chamber at a plane adjacent to said suction duct throat, and means on said casing adjacent the upper end of said chamber for regulating vertically of said chamber the position of said plane of arrest of said waste elements, said means including a plurality of vent apertures symmetrically located about the axis of said casing and extending radially from adjacent said axis to adjacent the periphery of the casing and shutters pivotally mounted over said apertures to selective open and close said apertures.

2,638,182
LUBRICATOR FOR PNEUMATIC TOOLS
Napoleon P. Boretti, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 8, 1950, Serial No. 183,767
10 Claims. (Cl. 184—55)



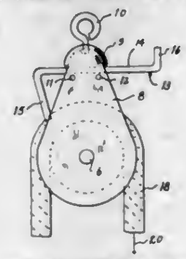
1. A lubricator for pneumatic tools, particularly tools and machines of the off and on variety wherein a uniform pressure in the air line does not obtain, having in combination an oil reservoir with an air chamber above the oil, a fitting at the bottom of the reservoir containing a section of the air pressure line and an opening in the top thereon, a tubular standpipe secured in air tight relation into the fitting above said opening, said standpipe having a constriction leading to an opening to the air chamber forming a venturi, an oil pipe and fitting leading to the bottom of the reservoir and having an opening into the venturi, a pouring opening and check valve in the top of the reservoir, an actuator and pressure release valve slidable in the top of the reservoir, a shut-off valve springspaced from the actuator and pressure release valve and arranged to shut the venturi when the actuator and pressure release valve is pushed down to open the air chamber to the atmosphere, and means for controlling the actuator and the valve to regulate the size of the Venturi opening.

2,638,183
AUTOMATIC BRAKE
Joseph H. Prowinsky, Washington, D. C.
Application June 23, 1952, Serial No. 295,141
6 Claims. (Cl. 188—29)
(Granted under Title 35, U. S. Code (1952), sec. 266)



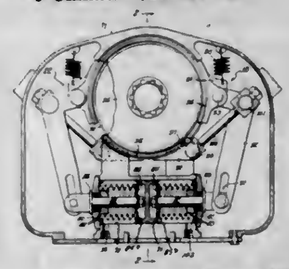
1. In a brake for a wheeled vehicle having a handle portion for moving the same, a support element adjacent the wheel, a cylinder carried by the support element perpendicular to the axis of the wheel, a brake shoe designed to conform to the peripheral configuration of the wheel slidably supported in the cylinder, resilient means for normally biasing said brake shoe in an extended position from the cylinder and into engagement with the periphery of the wheel, an inclined face formed about that end of the cylinder adjacent the wheel, a second inclined face formed about the one face of the brake shoe which is forced into cooperative engagement with said first named inclined face by rotation of the wheel to thereby force the brake shoe into braking engagement with the wheel, and means on the handle portion for retracting said shoe from wheel engagement against the normal resilient bias.

2,638,184
ROPE LOCKING PULLEY ASSEMBLY
Robert Sturdivant, Nashville, Tenn.
Application November 8, 1948, Serial No. 58,979
2 Claims. (Cl. 188—64)



1. A rope locking pulley assembly comprising a sheave, an axle for said sheave, an elongated plate on each side of said sheave for supporting the ends of said axle, said plates being joined together at a corresponding end of each plate and being provided with means for suspending the assembly, means connected to at least one of and lying between said plates, and between the joined ends thereof and the periphery of said sheave, for providing a guideway, a bar-like locking member having a generally rectilinear central portion slidable in said guideway, said locking member comprising a strip of sheet-metal bent near its rope-engaging end to form an angularly disposed portion extending from one end thereof toward the periphery of said sheave with the free end of said portion being arranged to engage and clamp a rope against said sheave to prevent running of the rope in one direction relative to the assembly, the point of engagement of said angularly disposed portion lying between 25 and 65 degrees of arc measured around said sheave from a point thereof closest to the generally rectilinear central portion of said locking member.

2,638,185
FRICTION ENGAGING DEVICE AND CONTROL MEANS THEREFOR
Harold E. Carnagua and Donald W. Kelbel, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Original application December 16, 1943, Serial No. 514,464. Divided and this application October 31, 1946, Serial No. 706,960
9 Claims. (Cl. 188—151)



1. A control device for a plurality of friction-engaging means including mutually exclusively operable elements disposed exteriorly of said device comprising means forming a chamber, a piston in said chamber, and a pair of piston rods extending into said chamber and adapted to be actuated by said piston, each rod also extending exteriorly of said device and being connected to operate one of said mutually exclusively operable elements, the operative relation between said pistons and piston rods being such that movement of said piston in one direction will actuate one of said elements away from the other and movement of the piston in the opposite direction will actuate the other of said elements away from said one element, and spring means on said rods and urging the rods toward each other.

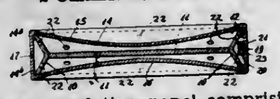
2,638,186
HYDRAULIC BRAKE ADJUSTER
Burlin W. Oswalt, Union, Ohio
Application January 21, 1949, Serial No. 71,869
4 Claims. (Cl. 188—152)



1. In a hydraulically operated brake mechanism having relatively movable cooperating brake

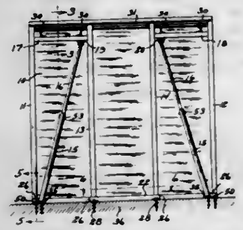
members, adjustable actuating means therefor including a power cylinder, fluid pressure operated piston means therein the movement of which results in relative movement of the cooperating brake members, means for supplying fluid under pressure to said power cylinder, a self limiting disc assembly mounted in said cylinder to be expanded by incoming pressure fluid, said disc assembly including a pair of opposed discs, a spring pressing said discs outward or apart and axially adjustable means interconnecting said discs, means adjustably interconnecting said disc assembly with said piston means comprising a fluid link intermediate said disc assembly and piston means, and means for progressively and automatically increasing the size of said fluid link in response to the need for greater relative travel of the cooperating brake members.

2,638,187
VACUUM THERMAL INSULATING PANEL
John F. P. Tate, New York, N. Y.
Application October 19, 1948, Serial No. 55,349
In Canada May 14, 1948
2 Claims. (Cl. 189—34)



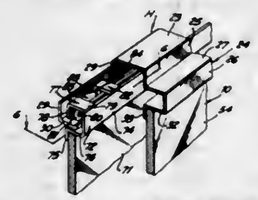
1. A heat insulating panel comprising a pair of spaced apart V-shaped bridge plates positioned with their apexes facing one another, struts extended between the apexes of said bridges plates, plates extended between the ends of said bridge plates and secured thereto, and elongated cover plates of a width corresponding to the spacing of said second plates and secured to the longitudinal edges of said bridge plates and said second plates, said cover plates being of a length greater than the spacing of said bridge plates to have extensions at either end equal in width to one-half the distance between the longitudinal edges of the legs of said bridge plates, said extensions being bent at right angles to said cover plates to extend about the longitudinal edges of said bridge plates with adjacent extensions abutting one another and secured together in edge contact.

2,638,188
WINDBREAK AND LIVESTOCK SHADE
Jack C. Corn, Friend, Kans.
Application May 17, 1951, Serial No. 226,897
1 Claim. (Cl. 189—34)



In a convertible building structure for use as a windbreak and animal shelter the combination which comprises a plurality of units adapted to be assembled to form a windbreak or shelter, each of said units comprising a bottom channel member, a top channel member parallel to the bottom channel member, end studs connecting the ends of the top and bottom channel members, spaced intermediate studs extended between said top and bottom channel members, said channel members and studs providing a rectangular-shaped frame and said frame having a top portion in a plane at an obtuse angle to a plane extended through the lower portion, a sheet metal cover mounted on one side of said frame, channel irons parallel to said top and bottom members positioned at the meeting point of the top and lower portions of the frame and extended from the end studs of the frame to intermediate studs spaced from said end studs, clip angles positioned on opposite sides of the channel irons and spaced from the ends thereof, telescoping braces bolted to the clip angles of the channel irons and extended to a surface upon which said frame is positioned, said telescoping braces having offset sections in the ends bolted to the clip angles of the channel irons, and clip angles on said bottom member for, selectively, connecting one of said frames to another frame, or for securing said bottom member to a surface upon which the device is positioned.

2,638,189
STEEL WINDOW STRUCTURE
William C. Watkins, Los Angeles, Calif.
Application September 24, 1951, Serial No. 247,914
7 Claims. (Cl. 189—64)



7. A window structure which includes: a substantially rectangular frame provided with a head member and a sill member; a horizontally extending upper guide member of substantially J-shaped cross section formed on said head member; a longitudinally extending lower guide member of inverted J-shaped cross section formed on said sill member; a substantially rectangular section situated within the confines of said frame; a plurality of downturned L-shaped members affixed to the upper portion of said section, with each of said members having an arm that projects downwardly into said upper guide member; a plurality of rollers, with each of said rollers situated within the confines of said upper guide member and rotatably supported from one of said arms, said rollers movably connecting said section to said upper guide member whereby said section may be moved horizontally in said frame; a horizontally extending arm formed on the lower portion of said section, said arm extending below said lower guide member; and a transversely extending guiding element supported by said arm and being engageable at all times with at least one of the vertical interior surfaces of said lower guide member so as to restrain lateral movement of said section.

2,638,190
COMBINED DOOR AND WINDOW
William C. Watkins, Los Angeles, Calif.
Application May 15, 1950, Serial No. 162,052
6 Claims. (Cl. 189—76)

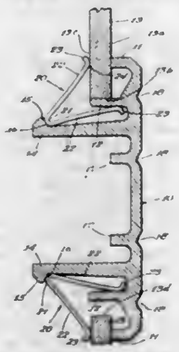
3. A window structure which includes: a substantially rectangular frame comprising a sill and

header that are joined by first and second vertically disposed end pieces; a roller-supported panel that is horizontally movable in said frame; a vertical leg mounted on the inwardly disposed end of said panel and laterally separated therefrom; a mullion extending between said sill and header that divides said frame into two portions, the first of which is open, and the second of which is closed by a pane of weather-protecting sheet material, said mullion comprising an elongate rigid strip that has a pane-supporting lip projecting from the interiorly disposed vertical edge thereof in a direction toward said second end piece and a flange from the exteriorly disposed edge thereof that terminates in an inwardly disposed leg, said leg having an off-set interiorly



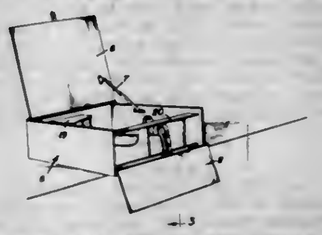
disposed leg portion in which a number of vertically spaced tapped bores are formed; a vertically disposable elongate member formed from a first and second leg disposed normal to one another to provide said member with a transverse L-shaped cross section, said first leg formed with a number of vertically spaced tapped bores therein that may be aligned with said bores in said flange-supported leg; and a plurality of screws that engage said tapped bores to removably hold said elongate member on said mullion with said second leg positioned parallel to said pane-supporting lip but disposed inwardly therefrom in such a position that it will interlock with said panel-supported leg to effect a weather-tight seal when said panel is moved to a position to completely close said open first portion of said frame.

2,638,191
PANEL MOUNTING ASSEMBLY
George Menosky, Grand Rapids, Mich., assignor, by mesne assignments, to A M I Incorporated, a corporation of Delaware
Application March 13, 1950, Serial No. 149,402
2 Claims. (Cl. 189—78)



2. A panel mounting assembly for a panel of relatively thin sheet material having opposite faces and a marginal edge thereon, comprising a metallic mounting strip extending along at least one edge of the panel and having a pair of integral flanges each extending at a right angle to said strip and provided with faces, one of which being in direct engagement with the outer face of the panel adjacent the marginal edge thereof and the other face being in engagement with the marginal edge of the panel, said flanges being parallel to each other and providing a recess whereby to allow for tilting movements of said panel during installation, and when the same is in place and in engagement with said flanges, and a retaining clip consisting of a V-shaped sheet metal spring strip having a pair of angularly divergent arms, with the first of said arms extending outwardly beyond the inner face of the panel at its marginal edge, and the second of said arms engaging the inner face of the panel at a point opposite to said flange; the arms of said clip being tensioned toward each other so that they tend to spring together, with means for restraining the first of said arms against movement toward the panel to cause the second arm to urge the panel into firm but resilient engagement with said flange, and means for retaining said clip in position on the mounting strip.

2,638,192
TRAVEL CASE
Walter M. Tuller, Washington, D. C.
Application March 17, 1952, Serial No. 276,976
1 Claim. (Cl. 190—52)

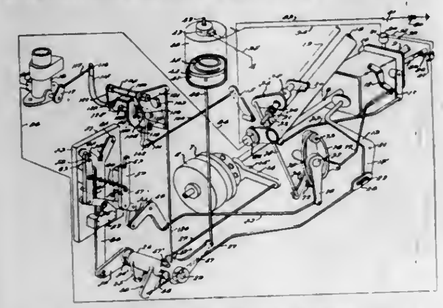


An apparel case comprising a box-like member, a door closing the front of the case, a lid closing the top of the case, a pair of spaced apart parallel partitions in the case inclined with respect to the sides of the case to form a pair of side compartments and a central compartment, each of said side compartments having a relatively narrow end and a relatively wide end adapted to substantially conform to a shoe placed on its side in the compartment, a strap fixed in each of said side compartments and adapted to embrace the shoe contained therein, and front and rear shelves fixed on top of said pair of partitions spaced apart to support the brim of an inverted hat and accommodate therebetween the crown of the hat positioned in the central compartment, at least one of said shelves fitting in said member between the sides of the member and forming a means holding the partitions in place.

2,638,193
TRANSMISSION CONTROL
Otto W. Schotz, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 31, 1946, Serial No. 687,248
8 Claims. (Cl. 192—.073)

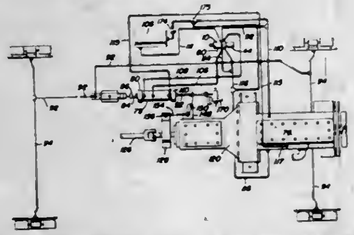
1. In a motor vehicle having an internal combustion engine, a transmission having a plurality of speed ratio drives, a clutch, a pressure differential operated motor and means operably con-

necting said motor with said transmission and said clutch and adapted to disengage said clutch, change the speed ratio drive in said transmission and re-engage said clutch as an incident to actuation of said motor, said engine having a throttle and a throttle control comprising a throttle control lever, accelerator pedal linkage, an operative connection between said linkage and said lever adapted to transmit motion of said linkage to said lever, said connection comprising a spring con-



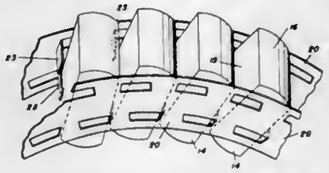
trolled lost motion connection adapted to transmit motion through said spring only when the force required to move said lever does not exceed a predetermined amount, and means to increase the resistance of said lever to motion, said last mentioned means being operatively connected to said piston motor so that actuation of said motor as an incident to change in transmission speed ratio drive operatively disconnects said accelerator pedal linkage from said throttle lever while said change in speed ratio drive is being effected.

2,638,194
SAFETY BRAKE FOR VEHICLES
Claud W. Gray, San Bernardino, Calif.
Application January 11, 1949, Serial No. 70,224
15 Claims. (Cl. 192—3)



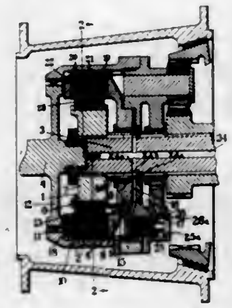
1. In combination with a motor vehicle including an ignition circuit and a brake system, said brake system being provided with a master cylinder having a manually operated brake rod, a second cylinder in which the brake rod is slidably mounted, a piston working in the second cylinder and connected to the brake rod, spring means moving the piston and the brake rod into brake releasing position, and fluid pressure generating means operated by the power plant of the vehicle and operably connected to the second cylinder and causing pressure to act on the piston to hold the brake rod in a brake releasing position, said fluid pressure means including an ignition key controlled valve controlling operation of said pressure means, a rotor movable with said valve, and an ignition switch operated by said rotor and connected to the circuit.

2,638,195
SPRAG TYPE CLUTCH
Milton Tibbetts, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application April 19, 1948, Serial No. 22,003
5 Claims. (Cl. 192—45.1)



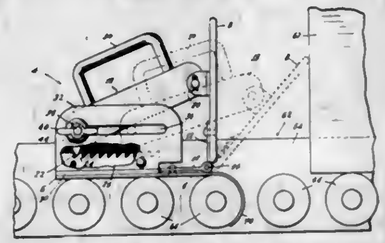
1. A one-way clutch comprising inner and outer members having concentric cylindrical operating surfaces, a series of inclined sprags operatively arranged between said surface, and means at one end of the sprags having members for biasing the sprags toward engaging position, said means and members wholly supported by the sprags when in operative position.

2,638,196
FLUID OPERATED MULTIPLE DISK CLUTCH
Walter Gordon Wilson, Martyr Worthy, near Winchester, England
Application March 18, 1946, Serial No. 655,280
In Great Britain March 30, 1945
5 Claims. (Cl. 192—85)



1. A hydraulic clutch comprising input and output elements, intermeshing sets of annular clutch plates, alternate plates being coupled to said input and output elements respectively, a chamber under the action of high pressure fluid, the outer peripheries of said clutch plates being in communication with said chamber when the clutch is in, a further chamber under the action of low pressure fluid, the inner peripheries of said clutch plates being in communication with said further chamber, a cylinder, a pressure fluid actuated piston in said cylinder operatively connected to said clutch plates for axially displacing the plates to their clutching position, said clutch plates having conduit means located in their mutually contacting areas, and connected to said further chamber, said conduit means being adapted to collect and disperse to the further chamber pressure fluid percolating between the plates from the high pressure chamber and the pressure fluid percolating between the plates under centrifugal action from the said further chamber when the clutch is in.

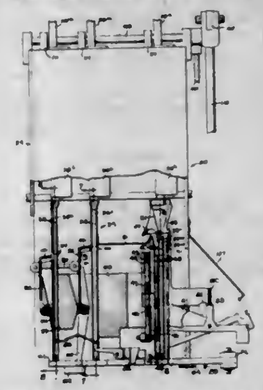
2,638,197
STOP DEVICE
Ian H. Small, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
Application September 25, 1947, Serial No. 776,001
1 Claim. (Cl. 193—35)



The combination with a roller conveyor having a series of freely rotatable spaced rollers extending transversely between oppositely disposed parallel side members, of a stop device for holding a load on said conveyor against movement therealong; said device comprising a base plate adapted to span at least two of said rollers; hook means at one end of said plate curved conformably to the radius of said rollers so as to intimately and continuously embrace a portion of the surface of any one of said rollers an extent sufficient to securely anchor said plate against movement in a direction at normal to and along said rollers in one direction and yet permit the ready removal of said plate by slight movement thereto in an opposite direction; a load-engaging member pivoted on said plate adjacent to said hook means; spaced, oppositely disposed, angle plates extending longitudinally of and affixed to said base plate; rack means fixed between said angle plates with the teeth of said rack means projecting toward the opening between said plates; a buttressing latch member having a pawl formed thereon at one end and pivotally connected at its opposite end to said load-engaging member; said pawl being slidably guided in the space between said angle plates and adapted to engage the teeth of said rack means by gravity; said angle plates having oppositely disposed, longitudinally extending, elongate, aligned slots; said latch member having a transversely disposed, elongate slot provided therein adjacent its pawl end; and manipulatively operable securing means passing through said slots in said angle plates and said slot in said latch member for releasably locking said buttressing latch member in an adjusted position with respect to the teeth of said rack means to hold the load-engaging member in adjusted position against an end piece of a load supported on said conveyor.

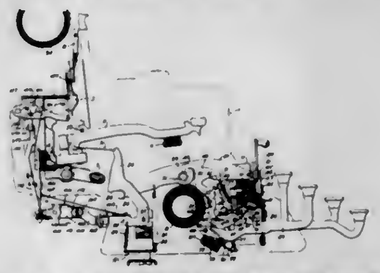
2,638,198
MULTIPLE COIN CONTROLLED MECHANISM
Wilhelm Wellstein, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application October 22, 1947, Serial No. 781,321
7 Claims. (Cl. 194—10)

1. In a multiple coin controlled release mechanism for vending machines and the like, the combination comprising a frame, a plurality of coin accumulating chutes fixed to said frame and adapted to receive coins of different denominations, each of said accumulating chutes except the one for the highest denomination coin having partition means therein dividing the chute into first and second branch chutes and arranged for the automatic diversion into the second branch chute of the last of a predetermined series of coins to enter the accumulating chute, a plurality of coin dogs pivoted on said frame, certain of said dogs having actuating means operatively associated therewith and extending into operative relation with said highest denomination accumulating chute for tripping said certain dogs in response to the depositing of a coin in said last mentioned chute, some of said dogs having means thereon extending into



operative relation to respective ones of said second branch chutes to be tripped by coins received therein, a step-by-step coin counting mechanism including a floating lever having retaining means thereon disposed for engagement by said dogs, means on said lever for bodily moving the latter through a cumulative series of steps relative to said frame as respective ones of said coin dogs are tripped, a releasing switch, and switch actuating means connected to said lever for closing said switch in response to the bodily movement of said floating lever as the latter passes through the last of the cumulative series of steps.

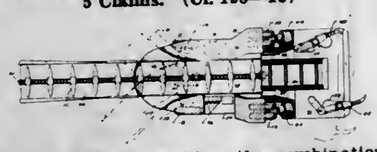
2,638,199
POWER OPERATED TYPEWRITER
Frederick W. Schremp, Elmira, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application June 25, 1949, Serial No. 101,450
18 Claims. (Cl. 197—17)



1. In a power operated typewriter having a power driven roll, a plurality of typing and other operated devices and a plurality of key levers, one for each typing and other operated device, the

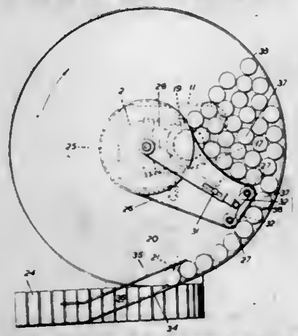
combination of a plurality of power arms pivoted at one end and each arranged to have the opposite end engage and operate one of said typing and other operated devices in pivotal movement thereof in one direction, a plurality of eccentrics, one eccentric rotatably mounted on each power arm for peripheral engagement with said power driven roll to move said power arm on its pivot in operating one of said devices, trip means including a plurality of trip levers, each pivotally mounted on one of said power arms and having a portion thereof latching the eccentric against rotation, trigger means for each power arm operating said trip lever to release said eccentric for engagement with and operation by said power driven roll for moving said power arm to operate one of said devices, and key lever actuated means for operating each of said trigger means to engage its trip lever and release its eccentric whereby each typing or other device is power operated by manual operation of the corresponding key lever.

2,638,200
LOADING MACHINE
John D. Russell, Cranberry Township, Venango County, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application June 11, 1945, Serial No. 598,731
5 Claims. (Cl. 198—10)



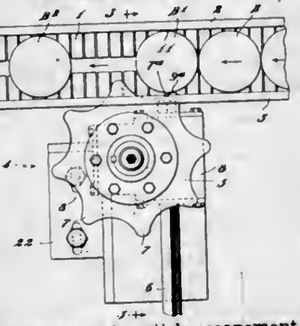
1. In a loading machine, the combination of a chassis, an axle pivoted to said chassis for supporting the forward end thereof, drive wheels journaled on said axle, a gathering device, carried by said axle and adapted to swing laterally on the turning of said axle, steerable wheels supporting the rear of said chassis, means for turning said axle, and means for turning said steerable wheels.

2,638,201
FEED MECHANISM
Morgan Fairest, Sheffield, England, assignor to Morgan Fairest Limited, Sheffield, England
Application April 18, 1951, Serial No. 221,571
In Great Britain July 1, 1950
5 Claims. (Cl. 198—30)



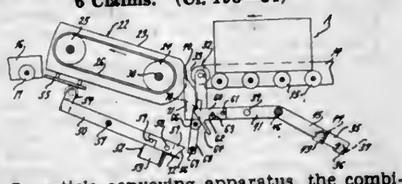
1. A feed mechanism for generally cylindrical articles of the type including a rotary table and an endless band having a run movable over the table towards an outlet opening at the edge of the table, said mechanism comprising a stationary and rigid raised border round the table, the border being interrupted to provide the outlet, and a guide pulley arrangement spaced from the border to form a feed gap and to direct the endless band into its return run away from the border, said guide pulley arrangement being disposed in advance of the outlet to provide between itself and the outlet a path for the articles bounded on the outside by the border and unconfined on the inside to permit any excess of articles fed through the gap to leave the path for re-circulation round the table.

2,638,202
ARTICLE ESCAPEMENT MECHANISM FOR CONVEYERS
Sidney T. Carter, Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application June 28, 1950, Serial No. 170,782
15 Claims. (Cl. 198—34)



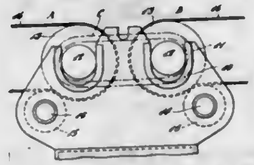
1. In combination, in article escapement mechanism for a conveyor which moves articles in succession along a predetermined path toward a star wheel which turns about a vertical axis adjacent to said path and wherein fixed guides cooperate with the star wheel to confine articles within the recesses between the star wheel teeth, and means for normally rotating the star wheel in timed relation to the conveyor comprising a sleeve coaxial with the shaft and having recesses and elevations in its end and a part which rides up onto said elevations when rotation of the star wheel is blocked thereby moving the star wheel in an axial direction.

2,638,203
ARTICLE COUNTING AND CONVEYING APPARATUS
Albert A. Mayer, Little Falls, N. J.
Application July 28, 1951, Serial No. 239,107
6 Claims. (Cl. 198—34)



1. In article conveying apparatus, the combination of a conveyor having article receiving and discharging sections and a normally inclined transfer conveyor section between said first mentioned sections, said inclined conveyor being movable under the weight of an article to a position substantially aligned with said discharge conveyor section, stop means to interrupt passage of articles onto said transfer conveyor, means latching said stop means in its article interrupting position, means for actuating said latching means to release said stop means upon return of said transfer conveyor section to its inclined position, and means responsive to the presence of an article on said receiving conveyor section for removing said stop means to allow movement of the article onto said transfer conveyor section.

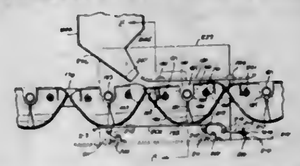
2,638,204
CONVEYER SUPPORT
Leslie Alfred Collis, Radlett, England, assignor to J. Collis & Sons Limited, London, England, a British company
Application December 15, 1948, Serial No. 65,371
In Great Britain December 19, 1947
4 Claims. (Cl. 198—102)



1. A conveyor system including a belt and a plurality of discrete conveyor units, each unit comprising a frame, end rollers, mounted thereupon and having spindles, said belt being mounted on the rollers within the frame, bearings on the frame, said spindles running in said bearings, cradles carrying said bearings at the ends of two adjacent units whereby to space the bearings a pre-determined distance apart, said cradles including means for allowing said bearings to slide vertically for a limited distance, whilst remaining within said cradles, a removable self-contained coupling unit engaging said spindles, so as to couple them together, and at least one idler roller together with a fixed axis upon which it is rotatable, said supporting roller, being affixed to said support in such position that a belt engages it before the bearings reach the bottom of the cradle, whereby said belt is nipped between the supporting roller and the end roller, whereby to increase frictional contact between the belt and the end roller.
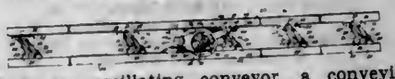
2,638,205
BUCKET CONVEYER
Henry W. Hapman, Detroit, Mich., assignor, by mesne assignments, of forty per cent to Hannah Jane Hapman, Detroit, Mich.
Original application March 18, 1944, Serial No. 527,036. Divided and this application July 30, 1948, Serial No. 41,511
3 Claims. (Cl. 198—150)

3. A bucket conveyor comprising a conveyor supporting structure, a pair of conveyor chains spacedly mounted on said structure, a bucket supporting rod extending between said conveyor chains and having its opposite ends connected thereto, a pair of bucket pan-supporting end members spacedly mounted on said rod, a trough-shaped bucket pan having opposite end walls engageable with said end members, and fasteners detachably securing said pan to said end members, each of said end walls of said pan having a cutaway portion extending downwardly



from the upper edge thereof and spaced away from said bucket-supporting rod whereby to enable removal of said bucket pan.

2,638,206
VIBRATORY CONVEYER
Albert Musschoot, Park Ridge, and Richard F. Bergmann, Winnetka, Ill., and Charles M. Young, Jr., Philadelphia, Pa., assignors to Link-Belt Company, a corporation of Illinois
Application February 4, 1949, Serial No. 74,504
20 Claims. (Cl. 198—220)

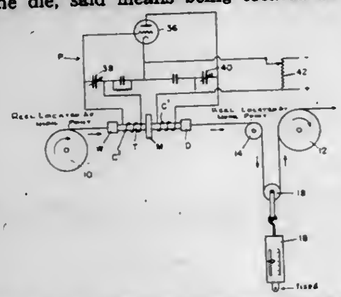


6. In an oscillating conveyor, a conveying body, a plurality of pairs of associated supporting arms each pivotally connected to said oscillative body, a plurality of housings arranged in two longitudinal rows which each housing of one row arranged transversely opposite a housing of the other row, each of said housings including rotatable bushing means and supporting means with the bushing means of the housings in each row being in axial alinement with the supporting means of the housings in the other row, the lower end portions of said supporting arms each being pivotally mounted in said supporting means, a plurality of torsion bars each having one end portion mounted in said bushing means for rotation therewith and the other end portion mounted in the lower end portion of the oppositely arranged supporting arm for rotation therewith, means for separately rotating each of said bushings relative to their supporting arms to twist said torsion bars in the proper directions to create evenly balanced opposing forces between said pairs of supporting arms, a rotatable eccentric shaft mounted transversely to said body, driving means pivotally connected to said body and rotatably connected to the eccentric portion of said shaft, a prime mover, and transmission means, including a fluid coupling, between said prime mover and said shaft to rotate said shaft and impart reciprocating to the driving means to oscillate said body.

2,638,207
METHOD AND APPARATUS FOR FORMING WIRE AND THE LIKE
Robert P. Gutterman, St. Paul, Minn., assignor to Engineering Research Associates, Inc., St. Paul, Minn., a corporation of Minnesota
Application November 17, 1947, Serial No. 786,426
2 Claims. (Cl. 205—16)

1. Apparatus for continuously drawing attenuated metal stock in great lengths, comprising a die, means for vibrating said die parallel to the movement of the stock, a drum of raw stock, a power driven drum at the leading end of the stock that provides the drawing force for

the stock, and means for damping out imposed longitudinal vibrations in the stock on either side of the die, said means being located at nodal



points of the longitudinal vibration of the stock, said die being located at an antinodal point of the longitudinal vibration of the stock.

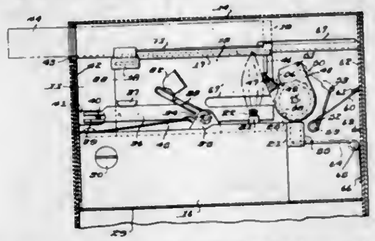
2,638,208
BOOK MATCHES WITH EJECTION-TYPE IGNITION MEANS THEREFOR
Malvin H. Olsen, Cook, Minn.
Application July 12, 1951, Serial No. 236,363
5 Claims. (Cl. 206—34)



1. Book matches comprising a pocket-size disposable packet having opposed front and back covers, the longitudinal edge portions of said covers having edging flanges turned inwardly toward each other and defining opposed channelways, the respective channelways cooperating in defining a magazine, the latter being commensurate in length with the length of the over-all packet, one end portion and the adjacent intermediate portion of said magazine providing a storage space and a complemental access, feeding and ejecting space for live matches and the other end portion providing a receiver space for dead matches, a battery of live matches shiftably mounted in the first named end portion, a finger opening in said intermediate portion rendering the matches available for progressive one-by-one use, said finger opening registering with the complemental portion of said magazine, and a friction surfaced exit slot in registry with said finger-opening, said slot having a match guiding and piloting shoulder aligned therewith, whereby to effectively and positively line up the head of the match with said slot.

2,638,209
CIGARETTE LIGHTER AND CASE
Archibald C. Campbell, Englewood, Colo.
Application June 6, 1950, Serial No. 166,471
1 Claim. (Cl. 206—41.3)

A cigarette case having a rectangular shape, a partition arranged in said case and defining a lighter chamber and a cigarette storage chamber, a fluid tank positioned in said lighter chamber and including a top, a wick extending from said fluid tank, a tube arranged contiguous to said wick and provided with a longitudinally extending slot, a flint slidably arranged in said tube, a spring extending through said slot and engaging said flint, a shaft arranged in said case, an abrading wheel arranged in engagement with said flint and mounted on said shaft, a frame mounted on said shaft and including an extension, a follower slidably arranged in said storage chamber, a spring for urging said follower upwardly, there being a cylindrical recess above said lighter chamber and parallel with the top of said case for receiving cigarettes singly from said storage chamber, a slider reciprocably arranged in said case for movement in a direction parallel to the cylindrical recess, a manually operable member arranged exteriorly of said case for actuating said slider, a projection carried by said slider for engaging the extension of said frame to rotate

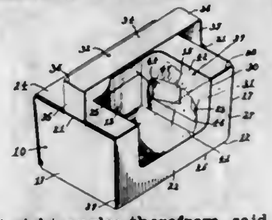


said abrading wheel, a cigarette ejector carried by said slider, there being an opening in said case at one end of said recess for the egress therethrough of a lit cigarette, a sliding door mounted for movement into and out of closing relation with respect to said opening, an arm having its lower end pivotally mounted on said tank and its upper end operatively connected to said door, a spring member interposed between said arm and the top of the tank for urging said door towards closed position, a panel connected to said slider, a shoe fixed on said panel for engaging said arm to depress said arm against said spring member, and a snuffer pivotally mounted on said tank for movement into and out of closing relation with respect to said wick upon manual actuation of said slider whereby movement of said slider in a direction towards said opening will simultaneously open said door, eject a cigarette and ignite said wick.

2,638,210
DISPLAY BOX FOR DECORATED EASTER EGGS
George C. Sparks, Chadds Ford, Pa.
Application October 20, 1949, Serial No. 122,507
1 Claim. (Cl. 206—45.14)

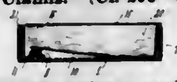
A decorated Easter egg box for self-service selling, in combination, a container unit including bottom, front, rear and end walls and a top closure projecting from the front wall and defined relative to each other by a fold line from which said top closure swings, said top closure and front wall having an aperture which extends an appreciable distance into both of them, a transparent sheet disposed across said aperture and secured adjacent the edges thereof and bendable along the aforesaid fold line, an individual cradle snugly fitted in the container unit and consisting of a base with end panels extending upwardly therefrom and leaves extending outwardly from both sides of said panels, said leaves of said end panels engaging the inner surfaces

of the end walls with the base resting on the bottom wall of the container unit, said panels being spaced from the end walls and apertured to receive the ends of an Easter egg, inturned flaps projecting from the upper edges of the end walls and substantially bridging the spaces between the end walls and the adjacent end panels, the container unit having slots formed in the folds between the end walls and their respective flaps, said slots terminating in angular end portions within the material of the flaps, and a handle consisting of a handhold with legs pro-



jecting at right angles therefrom, said legs having enlargements on their terminal ends which enlargements extend beyond opposite side edges of the legs to form shoulders and have convexly curved underneath edges from one shoulder to the other on the same leg, the distance between an edge of a handle leg and the end of a shoulder extending from the opposite edge of the same handle leg being approximately equal to the overall length of a slot including its angular end portions, said handle legs being slidable through the slots within the spaces between the end panels and end walls and the handhold coacting with the top closure to limit the opening of the latter.

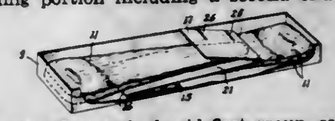
2,638,211
LABEL PACKAGE AND DISPENSER
Winfred F. Spurr, Reading, Mass., assignor to Ace Art Company, Reading, Mass., a corporation of Massachusetts
Application July 10, 1951, Serial No. 235,982
3 Claims. (Cl. 206—57)



1. A package comprising a cardboard box having a slot through one side face at the end thereof, a pack of superposed sheet material pieces enclosed by said box, the end face of the outer of said pieces being exposed for contact with the finger through said slot for removal from said box, and a strip of sheet material within said box with which the opposite face of said pack may engage, said strip having its end portion back of said slot bent longitudinally in opposite directions a plurality of times and forming a spring between said strip and the opposite inner face of said box pressing said pack toward said slot, said strip being integral with said box.

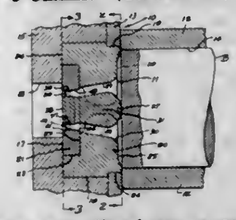
2,638,212
PACKAGE OF FLAT ARTICLES WITH ADJUSTABLE FILLER PAD
Fred O. Robertson, Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 3, 1951, Serial No. 259,633
2 Claims. (Cl. 206—65)

1. A universal shipping carton for use in packaging relatively flat articles of variable lengths comprising a box having a width slightly greater than the width of one of said articles and a length slightly greater than that of the longest of said articles to be packed but substantially greater than that of the shortest of said articles to be packed, a lid for said box, and a filler pad comprising an elongated planar member having a fold line spaced from one end thereof transverse to the length of said member and a plurality of fold lines successively spaced from the other end of said member, transverse to the length thereof, a first group of articles being stacked in said box with a first end thereof abutting one end of said box and a second group of articles being stacked in said box with the corresponding end thereof abutting the other end of said box and with an extending portion including a second end remote from said first end of said second group overlapping the similarly extending portion including a second end remote



from said first end of said first group, said filler pad being disposed in said box with a central portion of said pad located between the overlapping portions of said two groups, the end of said pad adjacent the second end of said first group of articles being folded about its fold line and turned back under the said second end of said first group to lie between said second end of said first group and the bottom of said box in substantial parallelism with the central portion of said filler pad with said second end of said first group engaging the fold, and the other end of said member being folded about that one of said plurality of fold lines nearest the second end of said second group and being turned back over said second end of said second group to lie between said second group extending portion and said lid, when the latter is in place, in substantial parallelism with the central portion of said filler pad.

2,638,213
EXTRUSION DIE FOR TUBING
Dalton H. Clark, Pontiac, Mich.
Application October 14, 1948, Serial No. 54,449
3 Claims. (Cl. 207—17)



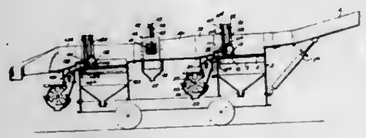
1. A die for extruding brass or copper tubing comprising a die body having metal flow passageways converging inwardly and rearwardly from the forward portion thereof, a mixing chamber interconnecting said passageways, and an approximately annular extrusion opening communicating with said mixing chamber, the major portion of the forward face of said die body having a raised peripheral portion projecting forwardly therefrom and a concave surface disposed inwardly of said peripheral portion and depressed below the level thereof, the entrances to said flow passageways being located in said concave surface.

2,638,214

JIGGING APPARATUS

Edmond Harvengt, Moustier-sur-Sambre, Belgium, assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois

Application February 23, 1949, Serial No. 77,905
In Belgium March 2, 1948
11 Claims. (Cl. 209—18)



1. A plant for treating ores and coals in divided form, comprising a jigging section in which the material being treated is graded into superimposed layers while moving as a bed in a flowing liquid current by liquid impulses passed through the moving bed of material, a screen in the jigging section for supporting the moving bed of material, an extracting apparatus connected to the discharge end of the jigging section, an outlet trough section overlying the extracting apparatus and connected to the discharge end of the jigging section, and means for dividing into upper and lower portions the graded bed of material leaving the discharge end of the screen and directing the upper portion into the outlet trough section and the lower portion into the extracting apparatus, said extracting apparatus comprising a first chamber to receive said lower portion of the divided material bed from the screen and having an inclined bottom wall with a bottom discharge opening at one end portion, a shutter supported pivotally above said wall in said chamber and having a portion subjected to the thrust of the material accumulated in the chamber and another portion normally closing the said bottom discharge opening but movable into a position to uncover said opening and effect discharge of material from the first chamber when the shutter is actuated, said shutter being balanced in such a manner as to be moved toward its open position when subjected to the thrust of a given amount of accumulated material, a second chamber positioned beneath said discharge opening to receive the material discharged from the first chamber, and means for continuously discharging the material from the second chamber.

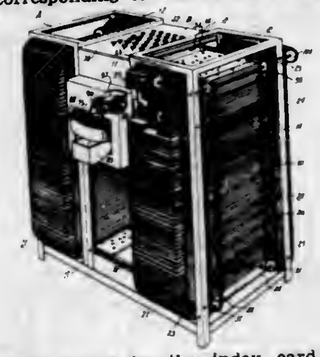
2,638,215

CARD SELECTING MECHANISM

Vincent E. Friedewald, Big Spring, Tex.

Application April 26, 1948, Serial No. 23,178
17 Claims. (Cl. 209—110)

1. A card selecting mechanism including, a supporting frame, a card conveyor disposed at one end of the frame, a second card conveyor disposed at the opposite end of the frame, a plurality of index cards carried by the two conveyors, a third conveyor extending between the ends of the first and second conveyors for conveying index cards therebetween, an index card testing mechanism disposed between the first and second conveyors for testing each index card as it passes from one of said conveyors to the other, a magazine carried by the supporting frame and adapted to contain a plurality of reference cards each corresponding to one of the index cards,



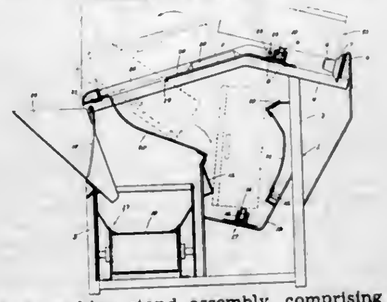
means controlled by the index card testing mechanism for removing reference cards from the magazine, and means for effecting relative movement between the magaznie and the reference card removing means in synchronization with the movement of the index cards whereby the reference cards in the magazine are brought into position relative to the card removing means for removal from the magazine in synchronization with the movements of the index cards.

2,638,216

PACKING STAND ASSEMBLY

Gerald C. Paxton, Sanger, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California

Application October 2, 1948, Serial No. 52,540
7 Claims. (Cl. 209—122)



3. A packing stand assembly, comprising an upstanding frame, a box support on the frame rearwardly of the front thereof, a front support on the frame in position for direct transfer of a box lengthwise from the rear support, the front support including a forwardly and downwardly inclined slide, a box stop at the lower end of the slide, there being an opening in the lower portion of the slide through which a box may pass endwise only, a downwardly opening chute extending in the frame at a downward and inward incline from adjacent and below said opening, a cull conveyor in the frame running below the open chute, the latter extending across the conveyor, and a box carry-off conveyor rearwardly of and parallel to the cull conveyor in position to receive each box discharged from said open chute.

4. A packing stand assembly comprising an upstanding frame, a box support and conveyor unit spaced rearwardly from the front of the frame in parallel relationship, said box support and conveyor unit including a longitudinal row of rollers at the rear and the upper run of an endless conveyor spaced in front of said row of rollers, each box extending lengthwise transversely of the support and conveyor unit with said upper run adjacent the center of balance of said box lengthwise thereof, a front support on the frame in position for direct transfer of a box lengthwise from the rear support and conveyor unit, the front support including a forwardly and downwardly inclined slide, and a box stop at the lower end of said slide.

7. A packing stand assembly comprising an upstanding frame, a rear box support on the frame, a front box support in front of said rear support and adapted to receive a box when moved laterally of its length from said rear support, the front support including side guide members spaced apart a distance greater than the length of a box, and leaving an opening therebetween, a box stop member defining the front end of said opening, downwardly and forwardly inclined box-supporting plates extending forwardly over said opening along the sides thereof from the rear end of the support and terminating at their forward end a distance from the stop member less than the width of a box but greater than the height of such box, a relatively narrow forward projection of one slide plate extending alongside the adjacent side member to the stop member and leaving a space between said extension and the opposite side member whose extent is slightly greater than the length of a box, and an element on the other slide plate to shift a box lengthwise and against said adjacent side member upon such box being pulled from the rear support onto the front support, whereby said box when so shifted will be supported over said opening by said slide plates and the extension, and a chute under the opening in position to receive a box when tilted for sidewise passage through the portion of the opening in front of the slide plates.

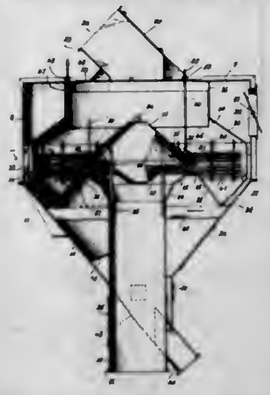
2,638,217

PULVERULENT MATERIAL CLASSIFYING MEANS

Gerhard Niemitz, Bronx, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y., a corporation of Delaware

Application June 22, 1950, Serial No. 169,640
5 Claims. (Cl. 209—139)

1. In pulverulent material classifying means, a vertically disposed casing, an inlet conduit for air-borne pulverulent material extended through the bottom of the casing and terminating at an intermediate portion of the casing, a member adjustably mounted in the casing to have adjustment toward and away from the terminating end of the inlet conduit and arranged to form with said terminating end an annular discharge opening extending in a horizontal plane, the adjustment of said member varying the width of said opening and the fineness of the material discharged from the casing, a vertical series of annular slats spaced from each other and mounted within the casing in spaced horizontal alignment with said annular discharge opening, an outlet in the bottom of the casing for the residue of coarse particles, a housing in the casing enclosing the adjustable member and spaced from the side wall of the casing, the annular discharge opening and slats within the casing and having a center opening in the upper portion communicating with the outlet in the top of the casing



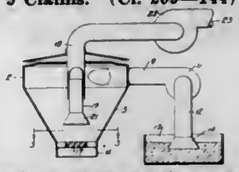
and an annular opening in the lower portion communicating with the bottom of the casing, and a valve controlled auxiliary fluid pressure inlet in the side wall of the casing in communication with the space between the housing and casing to control the quantity of coarse particles of material discharged through the outlet in the top of the casing.

2,638,218

METHOD OF SEPARATING DISPERSED MATTER FROM FLUID MASSES

Robert D. Simpson and Elwin V. Gordon, San Leandro, Frank Cardoza, Hayward, and John H. Jacobs, Oakland, Calif., assignors to Farm Production Engineers, Inc., Oakland, Calif., a corporation of California

Application November 21, 1949, Serial No. 128,586
5 Claims. (Cl. 209—144)



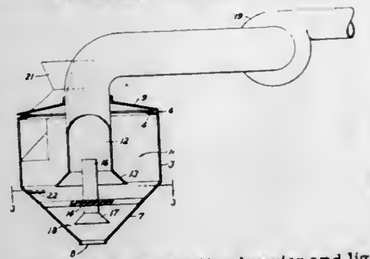
4. The method of separating components of prescribed unit mass weight from a mixture entrained in a volume of carrier fluid and including other components of differing unit mass weight, which comprises moving along a path a mass including a carrier stream of fluid having entrained therein particles of different unit mass weight, whirling said fluid and entrained particles about a vertical axis to set up centrifugal force in the mass, moving said mass axially to effect vertical and inward movement of all particles, spreading said mass in a generally horizontal plane, inducing a flow of fluid into said mas through said spread layer at sufficient velocity to at least suspend particles of lesser unit mass weight in said mass and to permit continual movement of particles of greater unit mass weight in said mass, and moving the lighter particles centrally and in a generally vertical direction.

2,638,219

MATERIAL SEPARATING APPARATUS

Elwin V. Gordon and Robert D. Simpson, San Leandro, and Frank Cardoza, Hayward, Calif., assignors to Farm Production Engineers, Inc., Hayward, Calif., a corporation of California

Application March 13, 1950, Serial No. 149,346
6 Claims. (Cl. 209—144)



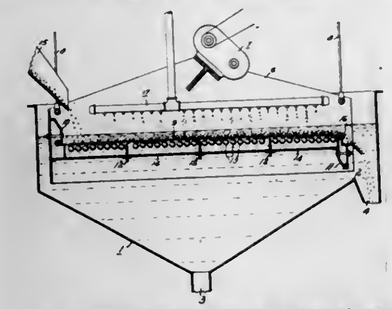
2. Apparatus for separating heavier and lighter components from a mass of solid material having a housing enclosing an axially vertical chamber and provided at its upper end with a fluid inlet imparting a vertical whirling to the fluid and material and at its lower end with a central discharge aperture, an axially aligned suction duct entering said chamber and having a throat opening disposed in axially spaced relation to and above said discharge aperture and below said inlet, and a plurality of arcuate vane members extending radially from adjacent said chamber axis to the inner peripheral surface of said housing and being disposed substantially in a horizontal plane intermediate said throat opening and said discharge aperture, and forming a substantially horizontal perforate division plate and serving to direct a definite motion to fluid entering the chamber through said discharge aperture and to permit the discharge of heavy components of said material through said aperture.

2,638,220

UNDERWATER SCREENING

Earl O. Schneider, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application September 21, 1949, Serial No. 116,891
8 Claims. (Cl. 209—269)



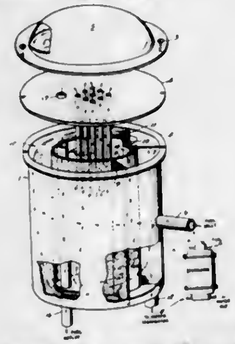
1. In apparatus for sizing material particles under water, the combination comprising: a tank for holding a body of water; a screen frame mounted for movement relative to said tank and supporting a generally horizontal foraminous screen below the normal water level of said tank; walls attached to said screen frame defining a compartment enclosed on all sides by said walls and closed at the top by said screen, a plurality of cleaner bodies loosely disposed in said compartment each having a density less than water and each being greater in size than the openings in said screen; and means for repeatedly moving said frame and screen relative to said tank so as to cause said bodies to vibrate with respect to the under surface of said screen.

2,638,221

FUEL FILTER AND DEMULSIFIER

William A. Carroll, Berkley, Mich.

Application January 14, 1952, Serial No. 266,435
6 Claims. (Cl. 210—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)



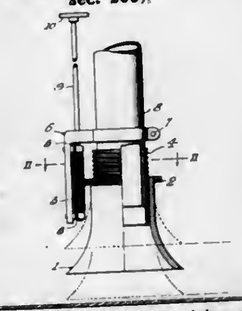
1. A fuel filter and demulsifier comprising, an outer demulsifying chamber, an inner filtering chamber within said outer chamber and separated therefrom by an impervious wall forming an inner casing, means in said outer chamber to cause coalescence of water particles mixed with said fuel, means to cause fuel entering said outer chamber to flow in an orderly manner therethrough, means to conduct water-free fuel from said outer chamber into said inner chamber, and porous means within said inner casing to filter the water-free fuel and separate foreign particles therefrom.

2,638,222

ADJUSTABLE TANK STRIPPER

Charles D. Roach, Hempstead, N. Y.

Application June 19, 1950, Serial No. 169,059
1 Claim. (Cl. 210—51)
(Granted under Title 35, U. S. Code (1952), sec. 266)



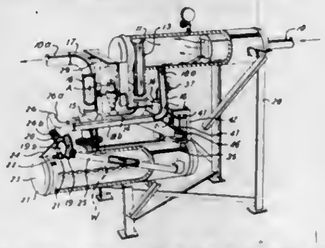
A tank stripping device comprising a discharge pipe; an externally threaded sleeve secured on said discharge pipe adjacent one end thereof; an internally threaded bell mouth extension threaded on said sleeve for adjustable extension of said pipe, said bell mouth extension having a ring gear affixed thereto externally thereof; a bracket secured to said pipe adjacent said sueeve and having a portion extending substantially parallel and adjacent to said pipe, sleeve and extension; bearings on said portion of said bracket; a control shaft journalled in said bearings; and an elongated pinion secured on said control shaft for rotation therewith, extending substantially parallel to and coextensive with said sleeve and meshed with said ring gear whereby rotation of the control shaft will rotate the bell mouth extension about the sleeve and move the extension longitudinally of the discharge pipe.

2,638,223

LIQUID KNOCKOUT APPARATUS

Asbury S. Parks, Houston, Tex.

Application March 13, 1950, Serial No. 149,375
11 Claims. (Cl. 210—52)



1. A liquid knockout apparatus for removing liquid from a high pressure fluid flow line including, a liquid-accumulating vessel communicating with and suspended at a single point of support from the high pressure fluid line for receiving liquid which has been separated from the line, a discharge valve for controlling the discharge of liquid from said vessel, said vessel being supported in a normal position with the weight of the vessel and its contents unequally distributed on opposite sides of its point of support, a control unit also supported by the fluid line and engaged by the exterior of the vessel at a point spaced from the point of support of said vessel whereby a portion of the weight of the vessel is applied to said unit, and means in the control unit responsive to the force applied by the weight of the accumulating vessel for effecting a balance of such force, variations in the weight of said vessel and its contents due to changes in the weight of the liquid therein resulting in variations in the force applied to the control unit, and means for actuating the discharge valve of the vessel in accordance with the force applied to the control unit.

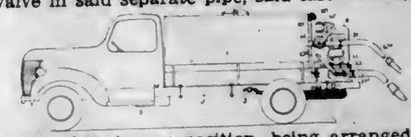
2,638,224

APPARATUS FOR CLEANSING SEPTIC TANKS

Warren Edmund Rupp, Mansfield, Ohio, assignor to The Gorman-Rupp Company, Mansfield, Ohio, a corporation of Ohio

Application May 29, 1947, Serial No. 751,298
4 Claims. (Cl. 210—52)

1. An apparatus of the class described having, in combination, a mobile truck, a liquid holder thereon, a power driven centrifugal pump disposed adjacent said holder and having suction and discharge pipes, the inlet and outlet ends of which are adapted to be projected into a tank, a discharge pipe leading from the bottom portion of said holder and having connection with said suction pipe, a valve in said connection, said valve, when in one position, being arranged to connect said suction pipe with the inlet side of said pump and when in another position being arranged to connect said last mentioned discharge pipe with the inlet side of said pump, a separate pipe connected with the discharge side of said pump and extending into said holder, a valve in said separate pipe, said last mentioned



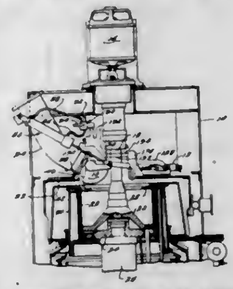
valve, when in one position, being arranged to control the flow of material from said pump to said holder and when in another position being arranged to control the flow of material from said pump to said first mentioned discharge pipe, an inlet air supply pipe the discharge end of which is connected with said suction pipe outwardly of said first mentioned valve therein, a valve for closing the inlet end of said air supply pipe, and a float in said holder, operatively connected to said last mentioned valve and arranged to operate the latter to open position due to the rise of the material in said holder.

2,638,225

CONTROL MECHANISM FOR CENTRIFUGAL CHARGING VALVES

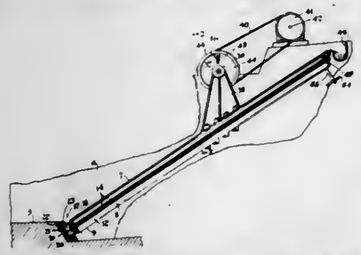
Bradley G. Cox, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York

Application September 5, 1947, Serial No. 772,367
2 Claims. (Cl. 210—63)



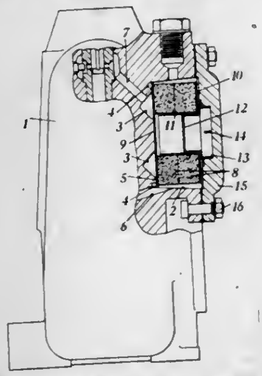
1. In a centrifuge having a supply duct and valve and a basket, power means for opening and closing said valve, a thickness gauge operable upon engagement with a predetermined thickness of material on the wall of the basket to actuate the power means in a direction to close the valve, said gauge including a rotatable shaft, a carriage supporting said shaft for rotational movement, a stationary bracket adjacent said basket and having a curved slot with substantially horizontal and vertical portions, said carriage being mounted in said slot, and a link extending between said valve and said carriage, said carriage being movable by said link between an operative position in the vertical portion of said slot when the valve is opened and an inoperative position in the horizontal portion of said slot when the valve is closed.

2,638,226
SCREENING AND FILTERING APPARATUS
Ben Cowan, Montreal, Quebec, and Adam Cunningham, Kenogami, Quebec, Canada
Application November 8, 1948, Serial No. 58,838
4 Claims. (Cl. 210—149)



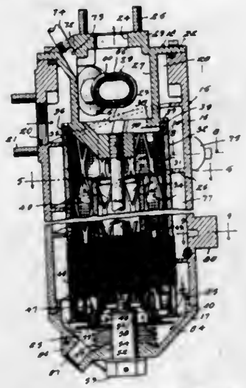
1. Apparatus for screening aqueous suspensions during the flow of the suspension through a substantially horizontal channel having side and bottom walls, comprising a substantially flat screen disposed in said channel at a slight upwardly inclined angle to the flow of the suspension, means for imparting to said screen a vibratory motion in which all points on said screen have the same orbital motion, flexible means supporting said screen and comprising a row of abutting flexible elements joined to said side walls and extending along the length of said screen to form a flexible seal between said screen and said side walls, each of said flexible elements having a dimension in the longitudinal direction not greater than the dimension in the vertical direction, whereby the resistance of the supporting means to longitudinal movement of the screen is substantially reduced to approximate the resistance of said supporting means to vertical movement.

2,638,227
FILTER FOR USE IN FUEL INJECTION PUMPS
Kenneth Brook, Eastcote, and Fraser Mackie Evans, London, England, assignors to C. A. V. Limited, London, England
Application February 20, 1948, Serial No. 9,656
In Great Britain February 22, 1947
3 Claims. (Cl. 210—164)



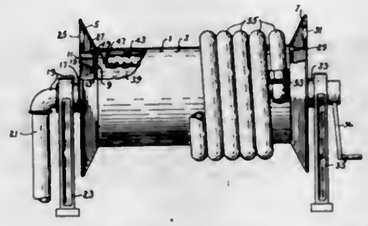
3. A filter comprising in combination a chamber having one side shaped to provide a central and an annular seating, and an annular recess therebetween, and a perforated plate supported on said central and annular seatings, a removable cover closing the side of said chamber remote from said seating, a porous pad provided with a central hole and arranged in said chamber with one end supported by said perforated plate, an inlet communicating with the interior of said chamber at the outside of said annular seating, an outlet communicating with said annular recess, a perforated metal reinforcing plate secured in contact with the face of said pad nearest to said cover and provided with a perforated hollow boss which extends into the central hole in said pad, and means connecting said reinforcing plate to said cover.

2,638,228
FLUID FILTER
George T. Downey, Swan N. Rosengren, and Robert E. Forrester, Corry, Pa., assignors to Aero Supply Mfg. Co. Inc., Corry, Pa., a corporation of Pennsylvania
Application December 26, 1950, Serial No. 202,678
2 Claims. (Cl. 210—183)



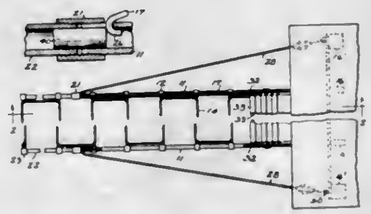
1. A fluid filtering device comprising a housing formed of a cylindrical side wall, upper and lower heads secured to the ends of said side wall, said upper head having an outlet port, an inwardly projecting housing carried by said upper head, said side wall having an inlet port adjacent said second named housing, said second named housing forming an outlet chamber and the space between said second named housing and said side wall comprising an inlet chamber, cylindrical filter means comprised of spaced inner and outer concentric foraminous cylindrical members, balls between said cylindrical members fixed relative to said second named housing and projecting therefrom a perforate bracing member on the inner side of the inner cylindrical screen member, a spiral vane between said outer cylindrical member and said side walls for effecting a spiral motion to the fluid about said filter means, a spring-pressed perforated plate carried by said lower head abutting the lower end of said inner cylindrical member whereby fluid may enter the interior of said inner cylindrical member, and a spring-pressed inwardly opening relief valve carried by said second named housing whereby the fluid in said inlet chamber may by-pass said filter means when the pressure of fluid in said inlet chamber exceeds a predetermined degree.

2,638,229
COMBINED FILTER AND HOSE REEL
Walter M. Harks, Algona, Iowa, assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application May 26, 1948, Serial No. 29,262
4 Claims. (Cl. 210—184)



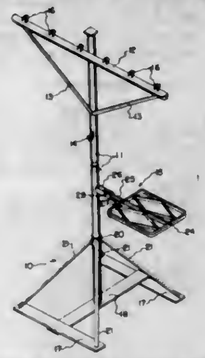
1. A combined filter and reel comprising a liquid-tight drum, means mounting said drum for rotation about an axis, means for rotating the drum, an inlet and an outlet conduit for the drum, a hose connected to the outlet conduit and wound on the drum, a partition in the drum disposed transversely of the axis of rotation thereof to separate the drum into inlet and outlet chambers, means defining openings in the partition, a plurality of filter elements supported in communication with the openings and disposed parallel to the axis of rotation, and means defining openings in one end of the drum in alignment with said filter elements for the reception and removal of the filter elements.

2,638,230
CLOTHESLINE HANGER
Phillip B. Cadman, Venice, Calif.
Application August 30, 1949, Serial No. 113,231
5 Claims. (Cl. 211—94)



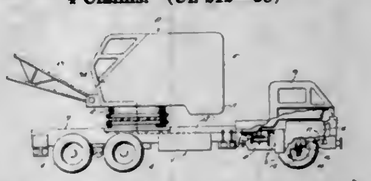
1. In a clothesline hanger, a pair of laterally spaced, parallel tubular beams each having, at an inner end, means for attaching the same to a vertical wall of a building and each having, at its outer end, male screw threads and a pair of slots disposed respectively at the outer and upper sides thereof; cantilever brace rods comprising a hanger rod and a lateral bracing rod for each beam, each rod having at its outer end, a hook extending through a respective one of said slots and hooked into the respective beam at the bottoms of said slots; and an internally threaded fitting threaded upon said male threads and engaging said hooks to lock them in said slots; and means for attaching to said beams, a clothesline extending back and forth between said beams in transverse stretches.

2,638,231
CLOTHESLINE POLE
Norman Tardie and Anna C. Tardie, Lawrence, Mass.
Application December 7, 1948, Serial No. 63,888
3 Claims. (Cl. 211—119.01)



2. A clothesline hanger comprising a pole, a cross arm fixed thereto adjacent the upper end of the pole, means on the cross arm for securing a clothesline thereto, and a supporting base for the pole embodying a pair of parallelly extending base members, a cross member having the lower end of said pole secured to the intermediate section thereof, the extremities of the cross member being secured to and at right angles with the base members, and struts extending from the base members to the pole above the lower end thereof and secured thereto, to provide a rigid structure.

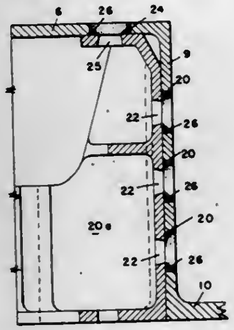
2,638,232
TRUCK CRANE
William J. Perkins, Cedar Grove, N. J., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application April 8, 1946, Serial No. 660,529
4 Claims. (Cl. 212—38)



1. In a self-propelled mounting for a crane the combination comprising a vehicle frame of the automotive type, a prime mover mounted on said frame, propulsion wheels mounted beneath said frame in supporting relation thereto, transmission means drivingly connecting said prime mover to said propulsion wheels, said transmission means including shiftable driving controls, a horizontally disposed fully revolvable crane-cab support mounted on said frame, a source of control-actuating power mounted on said frame, a shifting motor cooperatively engaging said shiftable driving controls, an electrically actuatable power admitting means mounted on said frame joining said shifting motor to said source of control-actuating power adapted to admit and terminate the admission of control-actuating power to said shifting motor to cause said shifting motor to shift said shiftable driving controls in response to electrical energy supplied to said electrically

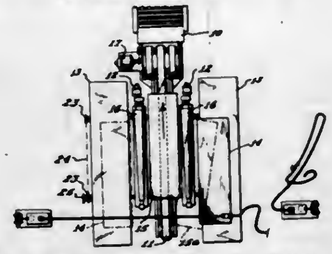
actuated power admitting means, electrical switch means mounted on said crane-cab support revolvable therewith, and electric circuit connections joining said electrical switch means through a source of electric power to said electrically actuatable power admitting means whereby said switch means may be opened and closed to cause shifting of said driving controls irrespective of the angular position of said revolvable crane-cab support or revolving motion on the part of the same.

2,638,233
DRAFT ATTACHMENT
Harry Hamilton Wolfe, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio
Application October 9, 1947, Serial No. 778,843
5 Claims. (Cl. 213—51)



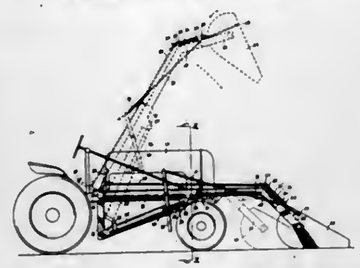
1. In a draft attachment for a railway vehicle, two substantially Z-shaped center sills each having a top wall arranged with a free edge thereof adjacent each other and welded therealong forming an inverted U-shaped member having spaced substantially vertical side walls and a single top wall, said side walls having a plurality of elongated slots therein disposed horizontally and in horizontal and vertical alignment, said top wall having slots therein aligned lengthwise of said member, a striker extending into said member having a top portion in flat engagement with an under surface of said top wall, said striker having slots therein of smaller dimensions than the slots in the top wall each registering respectively with a slot in said top wall, welded metal along the boundaries of the slots in said top wall and around the slots in the top portion of the striker joining the striker to said top wall, substantially straight side surfaces on said striker in flat engagement with inner surfaces of the respective side walls of said member, said striker having slots therein of smaller cross sectional dimensions than the slots in said side walls each registering respectively with a slot in the side walls, welded metal along the boundaries of the slots in said side walls and around the slots in the sides of the striker joining the striker to the respective side walls of said member, a center filler including webs having substantially straight side surfaces in flat engagement with corresponding inner surfaces of said side walls, said webs having slots therein of smaller dimensions than the slots in said side walls each registering respectively with a slot in said side walls, welded metal along the boundaries of the slots in said side walls and around the slots in said webs joining the center filler to said side walls, a flat surface at the top of the center filler in engagement with an under surface of said top wall, said center filler having slots in the top thereof of smaller dimensions than the slots in said top wall each registering respectively with a slot in said top wall, and welded metal along the boundaries of the last-mentioned slots and around the boundaries of the slots in the top of center filler joining the center filler to said top wall.

2,638,234
ORGANIZATION FOR FEEDING HEAVY SHEETS, PLATES, AND THE LIKE ONTO A CONVEYER
Willard M. Corbitt and Elmer C. Wenning, Ashland, Ky., assignors to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio
Application September 8, 1949, Serial No. 114,514
6 Claims. (Cl. 214—1)



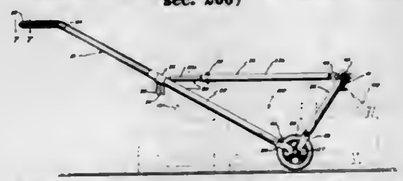
1. A feeding organization for metal sheets, plates and the like, comprising in combination a conveyor, a loading table beside said conveyor, a tapered roller between said conveyor and said table, said roller being disposed with its axis parallel to said conveyor and with its larger end in the direction of movement of said conveyor, means for driving said roller with its surface moving toward said conveyor, and a jacking device located at the end of said organization corresponding to the smaller end of said roller on the opposite side of said conveyor from said loading table, said jacking device comprising means for engaging an edge of a sheet, plate, and the like, and means for applying a tensile force to said engaging means, to shift an end of a sheet, plate, or the like from said table in the direction of said conveyor.

2,638,235
LOADING MECHANISM FOR OFFSET TRACTORS
Stephen S. Pokorny, Maquoketa, Iowa
Application December 21, 1949, Serial No. 134,170
3 Claims. (Cl. 214—140)



1. In combination with a tractor having its prime mover resting in a plane at one side of its center longitudinal axis, and a loader mechanism, comprising, a single elongated tubular beam pivotally secured adjacent the center rear portion of said tractor and extending forwardly adjacent the inner side of the prime mover of said tractor, a second beam member having its forward end portion bent forwardly and downwardly and having its rear end portion slidably adjustably detachably extending into the forward end portion of said tubular beam, a shovel member on the forward end of said second beam, a means for securing said two beam members against relative movement at times, and a power means for lifting said tubular beam at times.

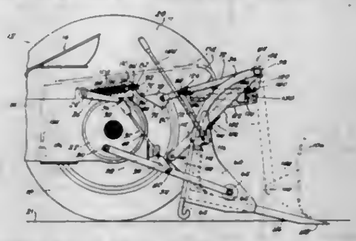
2,638,236
HAND TRUCK
Joseph H. Prowinsky, Washington, D. C., and David J. Carlson, Vienna, Va.
Application November 22, 1950, Serial No. 197,148
11 Claims. (Cl. 214—373)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A hand truck comprising a rear frame having spaced sides and an open end, a forward frame member having spaced sides and an open end, means for pivotally joining the open ends of said frame members, separately mounted wheels positioned at the joined ends of said frame members, a handle portion on the rear frame member, horizontal linkage means interconnecting said frame members at a spaced distance from said joined ends, a relatively stationary hook carried by and depending from the forward frame member, a movable hook connected to and depending from said rear frame member, rear and forward hook receiving means disposed on opposite sides of the center of gravity of an article to be carried and at a spaced distance from each other and below said hooks, said horizontal linkage being adjustable to alter the relative positions of the frame members and the spacing between said stationary hook and said movable hook to correspond to the spacing between the rear and forward hook receiving means on said article, said article being picked up when said truck is rolled to a position straddling said article and the handle of said truck is raised to engage the forward hooks with the forward hook receiving means of said article and then pushed downwardly to raise the forward portion of the article and engage said rear hooks with said rear hook receiving means of said article whereupon said article is suspended in said truck when said handle is moved upwardly to an article carrying position.

2,638,237
CONTROL FOR TRACTOR MOUNTED MANURE LOADERS
Donald K. Struthers and George W. Schroeder, Des Moines, Iowa
Application October 24, 1947, Serial No. 781,840
4 Claims. (Cl. 214—510)

1. A loader for a tractor having a power take-off mechanism including a continuously operating hydraulic pump, actuating fluid, and a reservoir for said fluid; said loader comprising a scoop pivotally mounted on the tractor for vertical swinging, an ejector mounted on said scoop for movement to extended and retracted position, a supply line for pressurized fluid from said pump, valve means associated with the pump, a control member for selectively actuating said valve means to permit or deny delivery of fluid from said pump to said supply line and to also permit drainage of fluid from said supply line, a first hydraulic ram connected to said supply line for raising said scoop, a second hydraulic ram connected to said supply line for operating said ejector, said hydraulic rams being connected to said supply line at spaced points with the first hydraulic ram connected at a point closer to said valve means, a two position valve in said supply line between said spaced points of connection, said valve permitting selective operative connection of said second ram to said supply line and connection of said second ram to said fluid reservoir, said first hydraulic ram being operatively associated with said control member, upon said ram raising said scoop to a predetermined height,

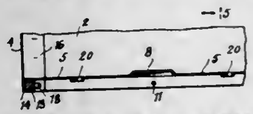


to move said control member to a position to deny delivery of fluid to said supply line and to eliminate control of the further delivery of fluid as long as said scoop is maintained at said predetermined height, a toggle linkage operatively associated with said scoop and adapted in a first range of positions to permit swinging of said scoop and in a second range of positions to permit lowering said scoop to a locked elevated position below said predetermined height, and means for operating said loader comprising supplying pressurized fluid to said first ram, while the second ram is operatively disconnected from said supply line, to elevate said scoop to said predetermined height, whereby the delivery of further fluid is denied and whereby said toggle linkage is moved into said second range of positions, then operatively connecting said second ram to said supply line, whereby pressurized fluid from said first ram is forced into said second ram, said scoop thereby being lowered and thus restoring control of further delivery of fluid and thus moving said toggle linkage into said locked elevated position, and then supplying further pressurized fluid to said second ram to extend said ejector.

2,638,238
CRATE, BOX, OR SIMILAR CONTAINER
William J. Cella, Huntington, N. Y.
Application August 4, 1950, Serial No. 177,590
4 Claims. (Cl. 217—65)

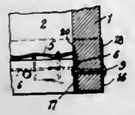
3. A container of the character described comprising, a pair of wooden side walls connected to a pair of sheet metal end walls, cross members disposed along the lower ends of the end walls and extending between and connecting the side walls, the end walls being provided at their lower ends with sleeves enclosing the cross members, a rectangular sheet metal bottom having two of

its edges formed with integral channels fitted over the lower edges of the side walls and forming protective coverings therefor, the bottom having two remaining edges provided with down-bent



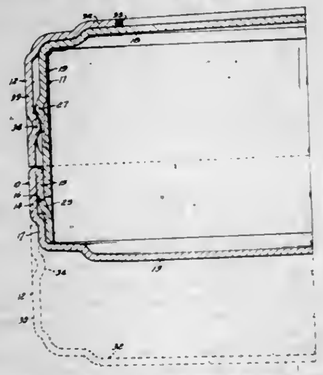
flanges, said flanges entering the sleeves and disposed therein between the cross members and the inner sides of the end walls, and fastening elements extending through the sleeves, through the cross members and through the flanges.

2,638,239
CRATE OR CONTAINER
William J. Cella, Huntington, N. Y.
Application August 17, 1950, Serial No. 180,007
3 Claims. (Cl. 217—69)



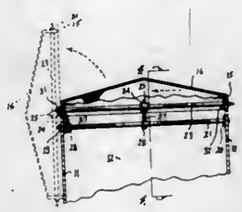
1. A crate or container of the character described having connected side walls, the lower edge portions of said walls being reinforced by a channel-shaped reinforcing means, said means including an outer strip having a vertical flange and a horizontal flange disposed against the bottom edge of the side walls, said means also including an inner strip having a vertical flange disposed against the inside face of the walls and having a bottom inturned flange, said inner strip having a lower part projecting below the horizontal flange on the outer strip whereby said projecting part will serve as a stacking guide for the crate, and a bottom in the crate provided with edge portions located between the vertical flange of the inner strip and the inside face of the side walls.

2,638,240
CIGARETTE STUB AND ASH RECEPTACLE
Ida Lundstrom, St. Louis, Mo.
Application February 3, 1950, Serial No. 142,155
1 Claim. (Cl. 220—4)



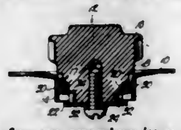
A cigarette stub and ash receptacle designed to be carried in a lady's purse or gentleman's garment pocket having a shallow base section having a circular bottom head terminating at its edge in an upstanding wall having its upper end portion folded over to provide an internal annular shoulder, an insert section having a circular top head terminating at its edge in a skirt, means on said skirt adapted to engage the internal annular shoulder to lock the insert section and the base section together, outwardly projecting downwardly diverging friction ribs spaced in pairs on and around the skirt and integral therewith, said top head of the insert section having an opening therein having an area greater than half the area of the head, a cover section having a circular top head terminating in a skirt rotatably mounted on the insert section, a plurality of equally spaced inwardly projecting protuberances on the skirt of the cover section frictionally engageable with the friction ribs upon rotation of the cover in either direction of rotation, stops at opposite ends of each pair of friction ribs to limit rotary movement of the cover section when contacted by the inwardly projecting protuberances, and the head of the cover section having an eccentric opening adapted to lie over the head of the insert section when the receptacle is closed and to lie over the insert head opening when the receptacle is open to receive cigarette stubs and ashes.

2,638,241
BOX COVER
Charles Albert Clark, Kanawha, Iowa
Application August 1, 1951, Serial No. 239,715
8 Claims. (Cl. 220—38)



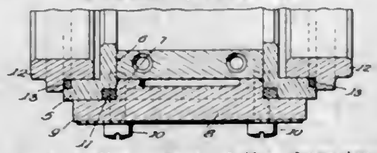
5. In a device of the class described, an open top rectangular receptacle, a cover therefore, a rod member extending between and secured to two opposite sides of said receptacle on the interior thereof and substantially parallel to the bottom thereof, a second rod member mounted to the underside of said cover so that when said cover is on said receptacle the second rod member will be substantially parallel to and spaced above said first mentioned rod member, a collar member slidably arranged on said second rod member and adjustably securable thereon at any point intermediate its ends, a flexible member secured at one end to said collar member and slidably arranged at its other end on said first mentioned rod member, said cover movable longitudinally of said rods across said box and over the side thereof and when moved to such position said flexible member holding said cover suspended along the outer side of said box, and the positioning of said collar member between the ends of said second rod member determining what portion of said cover member will extend below the top edge of said receptacle while said cover is suspended at the side thereon.

2,638,242
CLOSURE PLUG
Robert J. Scott, Blue Springs, Mo., assignor to John C. Hockery, Kansas City, Mo., trustee
Application January 2, 1951, Serial No. 202,911
5 Claims. (Cl. 220—44)



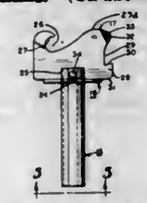
1. A closure for an opening in a pressure vessel, comprising a plug having a stem smaller in size than said opening and insertable therein, an annular gasket encircling said stem and bridging the space between the outside of the stem and the confronting annular wall of the opening, said stem movable axially relative to said gasket in and out of said opening, inner and outer stop shoulders limiting the extent of such relative movement, said stem having in its peripheral surface an axial groove terminating at one end adjacent said inner shoulder and terminating at the other end at a point intermediate the two stop shoulders, said gasket engaging the ungrooved exterior of said stem outwardly from said point when it is positioned against said outer shoulder thereby to form a seal between said stem and the confronting annular wall of said opening, said gasket overlying said groove when it is positioned against said inner shoulder, and the length of said groove in an axial direction being greater than the thickness of the gasket in that direction, whereby the ends of said groove are exposed on either side of said gasket when the latter is positioned midway between the ends of the groove.

2,638,243
SEALING MEANS FOR COOPERATIVELY ASSEMBLED PARTS OF VALVE OR COMPARABLE ASSEMBLIES
Robert H. Davies, Aurora, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application April 15, 1949, Serial No. 87,694
5 Claims. (Cl. 220—46)



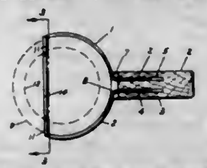
1. In a sealing means of the character described the combination of a female member having a bore therein in which pressure fluid is receivable, and a counterbore defined by an outer wall and a base, said counterbore being surrounded by an end face, a male element secured to said female element and having a center boss insertable in said bore through the counterbore and a radially extended flange engageable with said end face and forming an end closure for the counterbore, said boss opposing the counterbore outer wall and said flange opposing said base to form between them an annular sealing ring receiving chamber, a deformable sealing ring in said chamber and having an outside diameter only slightly larger than the diameter of the outer wall of the counterbore so as to be readily insertable in the counterbore without necessary pressure application which might cause pinching of the ring and yet be initially in self-retaining contact with said outer wall when in repose in the counterbore, said ring also being shaped and dimensioned so as to initially project from said counterbore when in repose therein and to be initially out of contact with the center boss when the latter is inserted through said counterbore, said ring being deformed into sealing contact with said outer wall, base, and flange when said flange is in engagement with said end face.

2,638,244
TUBULAR TEAR STRIP REMOVER WITH OVERLAPPING EDGES
John Carroll Baisch, Whittier, Calif.
Application September 27, 1948, Serial No. 51,363
4 Claims. (Cl. 220—52)



1. In a device of the class described, including: a generally tubular stem of sheet metal, spiral in cross section, having overlapping longitudinal edge portions spaced apart substantially the width of the thickness of a tearing strip tongue; teeth along the free edge of the outer overlapping edge portion; and means for rotating said stem.

2,638,245
COMBINED CAN HOLDING AND BRUSH WIPING DEVICE
George O. Loesel, Erie, Pa.
Application September 10, 1947, Serial No. 773,231
1 Claim. (Cl. 220—90)

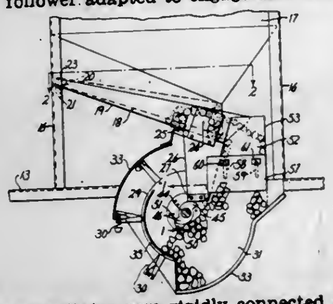


A combined can holding and brush wiping device comprising a one-piece wire member bent to define a straight portion having raised inverted U-shaped portions on opposite ends thereof for lockingly engaging the marginal bead of an open can, the said wire continuing from the outer leg of each inverted U-shaped portion toward one another along an arcuate path in a plane at right angles to the U-shaped portion and terminating in parallel adjacent extensions to form a handle, the combined extent of the arcuate portions being more than 180°, whereby said arcuate portions will clampingly hold a can.

2,638,246
FEED CONTROL MEANS FOR SEED DISPENSERS
Ellwood L. Faust, Elmhurst, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 6, 1949, Serial No. 91,805
10 Claims. (Cl. 222—13)

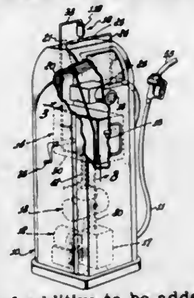
1. In a potato planter; the combination comprising a seed box having an open seed discharg-

ing end; a hopper chute hingedly mounted on and disposed below said seed box at the seed discharging end and adapted to receive seed from said seed box; a hopper positioned beneath said hopper chute having an opening for receiving seed flow from said hopper chute; a pair of ground wheels for supporting said potato planter; a pair of discs rotatably mounted in said hopper having radially outwardly extending picking means adapted to pick up and discharge seed from said hopper; a sprocket rotatable with said ground wheels; a second sprocket in driving engagement with one of said discs; a chain interconnecting said sprockets whereby rotation of said ground wheels transmits rotational movement to said disc having said second sprocket in driving engagement; a knuckle rigidly connected to each disc; a knuckle coupling positioned between said discs having a universal joint at each end respectively connected to the knuckles for cojoint drive of the knuckles and the discs; a pair of cam surfaces diametrically disposed on said knuckle coupling; a cam follower adapted to engage said cam surfaces; an agitator arm rigidly connected at one end to said cam follower and at its other end to a lower portion of said hopper chute whereby rotation of said knuckle coupling and its associated cam surfaces by said ground wheels imparts an agitating movement to said hopper chute; a seed guide extending into said hopper for directing the flow of seed from said hopper chute to said hopper comprising a pair of transversely spaced downwardly depending side plates rigidly connected to said hopper chute at one end thereof, a deflector plate positioned between said side plates and rigidly secured to the forward ends thereof, said deflector plate being in a transverse substantially upright plane, a back plate rigidly secured to the rearward ends of said side plates, said back plate being longitudinally spaced from said deflector plate; and hopper seed level limiting means comprising a downwardly depending nonmetallic flexible chute flap mounted for vertical adjustment on a lower portion of each seed guide side plate, said flaps extending into the seed receiving opening in said hopper.



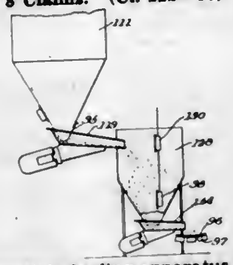
2,638,247
INJECTION OF ADDITIVES INTO FLUIDS BEING DISPENSED
Newcomb D. Taylor, Long Beach, Calif., assignor to The Hancock Oil Company of California, Signal Hill, Calif., a corporation of Delaware
Application July 29, 1950, Serial No. 178,555
4 Claims. (Cl. 222—23)

1. A liquid fuel dispensing unit comprising a housing, a delivery hose having a discharge end at the outside of said housing, a pump at the inside of the housing communicable with said hose and operable to pump a stream of fuel therethrough for delivery from said discharge end thereof, a meter within the housing responsive to the rate of fuel delivery by the pump through the hose, computer mechanism in the housing operable by the meter to register the amount of fuel delivered, a container for holding a supply of additive to be added to the fuel, means operable to inject metered amounts of additive from said container into the fuel stream, and means operable by said computer mechanism to actuate said injecting means at rates varying in accordance with the rate of fuel delivery.



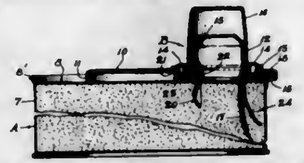
2,638,248
CONTINUOUS BATCH FEEDER CONTROL
Grove D. Alvord, Indiana, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application January 3, 1947, Serial No. 720,043
8 Claims. (Cl. 222—56)

8. A volumetric feeding apparatus for granular material comprising an electrically operated supply conveyor, a batch hopper positioned to receive material from the supply conveyor, an electrically operated feeder conveyor positioned to receive material from the batch hopper and deliver the same, a circuit energizing and deenergizing means responsive to a maximum volume of material in the batch hopper to deenergize the supply conveyor and to energize the feeder conveyor, and a circuit timing means to reenergize the supply conveyor and deenergize the feeder conveyor after the lapse of a predetermined period of time sufficient for the feeder conveyor to empty the batch hopper.



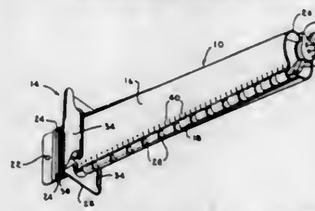
2,638,249
DISPENSING ATTACHMENT FOR FOOD CONTAINER CANS
Stanley M. Briggs, Pacific Palisades, Calif.
Application October 12, 1951, Serial No. 251,086
5 Claims. (Cl. 222—90)

1. In a dispensing device for attachment to a sealed food container can having a lid provided with a radially outwardly extending marginal flange, for dispensing the contents of said can, comprising: a generally flat lever having at one end a handle, having at its other end a downwardly projecting hook having an end portion projecting toward said handle for engagement beneath said flange to provide a fulcrum, at right angles to the longitudinal axis of the lever, for downward swinging movement of the lever about an axis tangent to said flange, from a starting position in which the lever is inclined upwardly, defining with the lid a substantial dihedral angle, to a terminal position in which the lever lies substantially flatly against the lid, said lever having, intermediate its ends a dispensing aperture; a pouring spout attached to the upper side of the lever, registering with said aperture, and with its axis substantially at right angles to the plane of the lever; a piercing blade attached to the underside of said lever, projecting downwardly therefrom, and arranged substantially as a continuation of that side of said spout which is adjacent said hook, and substantially parallel to said fulcrum axis, whereby during said downward swinging movement said blade, commencing at a point remote from said fulcrum axis and moving progressively toward said fulcrum axis, will pierce in said lid an opening having a generally V-shaped starting portion defined between diverging edges of said lid, said opening, when the lever is in said terminal position, substantially registering with said lever aperture, with said starting portion disposed at the side of said opening remote from said fulcrum axis; and a spring latch attached to and projecting downwardly from the underside of said lever in a position diametrically opposed to said blade across said lever aperture, said latch including a narrowed resilient neck part and a head including laterally projecting parts for yielding latching engagement with said diverging edges within opposed sides of said lid opening at the apex of said starting portion, said latch being arranged to engage said lid edges in an intermediate stage of said downward movement, to spring toward said blade in passing said edges, and to then yieldingly engage beneath said edges, whereby to latch the lever to the lid in said terminal position.



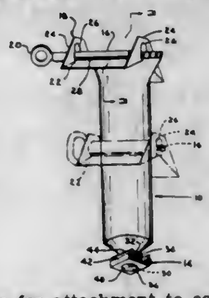
2,638,250
AUTOMATIC DISPENSER FOR COLLAPSIBLE TUBES
Wallace M. Houldsworth, Royal Oak, Mich.
Application January 12, 1948, Serial No. 1,855
13 Claims. (Cl. 222—95)

1. A dispensing device for collapsible containers comprising a back plate having a narrow elongate slit through which flattened portions of a container are drawn, said back plate having resilient tongues engageable with the flattened portions of the container drawn through the slit and creating a forward thrust on the plate, said back plate having forwardly and inwardly curved resilient portions adapted to bear on the opposite sides of the container and create a resilient rearward thrust on said plate.



2,638,251
HYDRAULIC DISPENSER FOR COLLAPSIBLE TUBE CONTAINERS
Wallace M. Houldsworth, Royal Oak, Mich.
Application January 12, 1948, Serial No. 1,857
8 Claims. (Cl. 222—97)

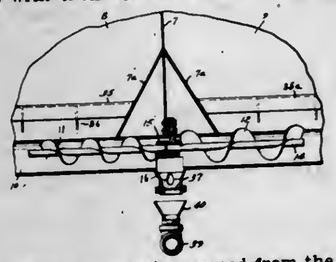
1. A device for attachment to collapsible dispensing tubes comprising, in combination, a body adapted to embrace and be mounted upon the tube for longitudinal movement therealong, said body including two side walls converging rearwardly of the tube and terminating short of one another to form a narrow transverse slot through which flattened portions of the tube may be drawn, a pair of flat plate elements bridging the space between said side walls adjacent to the opposite ends thereof and connecting the side walls together into a unit, said plate elements projecting rearwardly from the side walls crosswise to the longitudinal axis of the slot and each provided with an enlarged recess opening into the slot, a key member extending through the recesses of the plate elements and rotatable therein, said key member adapted to engage the closed end of the tube and upon rotation to effect the rolling up of the tube on the key member to thereby draw flattened portions of the tube through the slot for the expulsion of the tube contents.



2,638,252
MIXING MACHINE
Elmer Zahn, Falfurrias, Tex.
Application May 19, 1948, Serial No. 27,943
3 Claims. (Cl. 222—139)

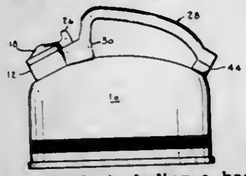
2. A mixing machine comprising, a hopper, a partition extending transversely of the hopper and dividing the hopper into compartments which are in longitudinal alignment, a semi-circular trough at the bottom of the hopper which extends from end to end of the hopper, a spiralled conveyer in each of the compartments in said trough, a common discharge nozzle leading from the trough through which the material in the compartments is discharged by said conveyors, means for rotating the conveyors independently in directions to convey the material in the compartments to said nozzle, a valve controlling said nozzle, transverse plates spaced apart longitudinally along the hopper and whose ends are anchored to opposing sides of the hopper, angle irons

in the respective compartments supported by said plates with their apexes upwardly, the margins



of said angle irons being spaced from the downwardly converging walls of the hopper.

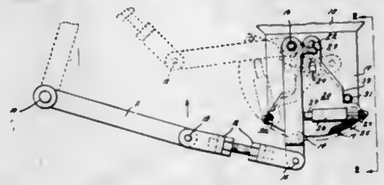
2,638,253
TEAKETTLE HAVING TOGGLE ACTING SPOUT CAP
Frederick W. Mueller, West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application October 26, 1949, Serial No. 123,560
3 Claims. (Cl. 222—472)



1. In a tea kettle including a body provided with a spout adjacent the periphery of the top of the body and a handle diametrically spanning the top and connected to the top adjacent the spout, a cap adapted to seat on said spout, a pair of ears connected to said spout and projecting toward said handle, a hub connected to said cap and projecting between said ears and being connected to said ears for pivotal movement, an arm connected to said cap and projecting upwardly between said spout and said handle for convenient manual actuation, said handle being recessed to receive said arm when said cap is pivoted upwardly and cooperating with said arm to limit the upward movement of the cap, and a toggle acting spring connected to said hub and bearing against the junction of said spout and said body to bias said cap either to its seat or to its raised position.

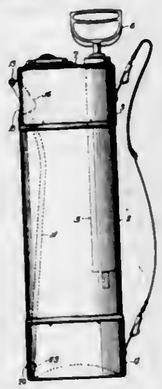
2,638,254
COMPRESSION SEALING GATE FOR STORAGE BINS AND HOPPERS
Robert E. Heltzel, Warren, Ohio
Application December 8, 1949, Serial No. 131,762
14 Claims. (Cl. 222—505)

12. For use with a chute having a discharge opening, a closure comprising a gate mounted for linear movement toward and from the discharge opening in alignment therewith and for movement into and out of alignment with the discharge opening, an operator movable relative to said gate, means responsive to the relative movement of the operator for moving the gate linearly toward and away from the opening, means on the gate to arrest the relative movement of the operator and entrain the gate with the operator to move the gate out of alignment with the opening, means positioned to arrest the movement of the gate back into alignment with the opening and means restraining said operator from movement relative to the gate until the gate has encountered such



arresting means and is arrested, at which time the operator moves relative to the arrested gate and the gate is moved linearly toward and over the opening.

2,638,255
SPRAYER TANK
Lynn L. Fletcher, Lowell, Mich., assignor to Lowell Specialty Company, Lowell, Mich., a corporation of Michigan
Application February 14, 1947, Serial No. 728,611
2 Claims. (Cl. 222—540)



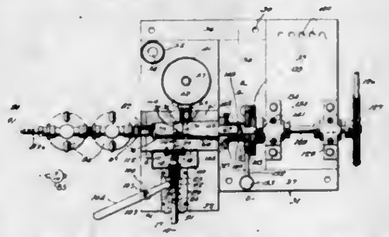
1. In a portable spraying apparatus, a fluid container having a substantially cylindrical side wall, a portion of said wall between the container ends being reentrant to provide a recess opening to the exterior of the container, said reentrant portion including a wall part inclined inwardly and toward one end of the container and inclined in a plane which is at angle to the cylinder axis and a second wall part substantially at right angle to the first said wall part, the second wall part being inclined inwardly and toward the other end of the container, and a relatively rigid conduit extending through and rigidly secured to one of said wall parts with its ends projecting beyond the opposite sides of said last mentioned wall part with one end projecting into the recess, the portion of said conduit which extends through one of said wall parts being inclined at an angle to the longitudinal axis of said container, a nipple provided on the end of the conduit projecting into the recess and extending substantially parallel to the other of said wall parts with said nipple disposed substantially wholly within the bounds of said recess, and the other end of said conduit projecting into and extending to adjacent the bottom of the container.

2,638,256
BOTTLE FILLING DEVICE
Otto B. Hagen, Wauwatosa, and Hugo J. Multhauf, Milwaukee, Wis.
Application September 17, 1948, Serial No. 49,712
4 Claims. (Cl. 226—16)



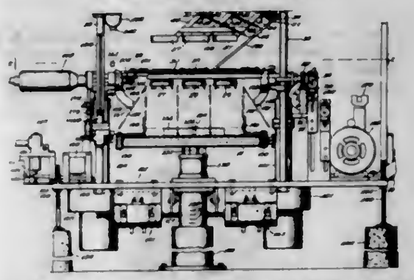
2. A container filling device, comprising an upstanding guide rod, a reciprocatory sleeve slidable on said rod, an article-supporting head detachably carried by the upper end of said sleeve, a frame including a thin-walled tubular structure surrounding said head and forming an upwardly-opening article-loading space therein and adapted to receive an inverted container thereover, said head being axially movable in said space, actuating means having an operative connection with said reciprocatory sleeve for axially displacing said sleeve, and detent means carried by said frame and laterally engaging said sleeve for holding said sleeve at an adjustable elevation on said guide rod.

2,638,257
SAC FILLING MACHINE
Max Knobel, Arlington, Mass., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa, a corporation of Delaware
Application January 16, 1947, Serial No. 722,455
4 Claims. (Cl. 226—63)



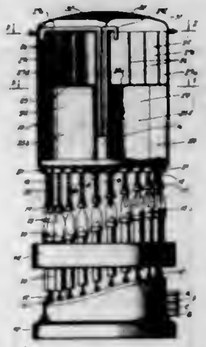
1. Apparatus for filling a container with fluid material comprising in combination a source of vacuum, a source of fluid material supply, a rotary valve, conduits interconnecting each of said sources with said valve, said valve having a port to which the container is adapted to be connected, and power-driven means for rotating said valve to interconnect said sources singly and in a predetermined sequence to said port, said power-driven means including a uni-revolutional clutch for actuating said valve from rest through one revolution.

2,638,258
JAR CAPPING APPARATUS
Joe Bowen, Huntington, W. Va., assignor to Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif., a corporation of Nevada
Application December 7, 1949, Serial No. 131,604
19 Claims. (Cl. 226—88)



1. Jar capping apparatus comprising means for supporting a plurality of jars in predetermined arrangement, a cap carrier mounted for vertical movement toward and from said jars, said cap carrier comprising a frame, a plurality of cap receptacles mounted on said frame for turning movement from upwardly facing cap-receiving position to downwardly facing cap-discharging position and for rotary movement, said receptacles being arranged to position caps in the predetermined arrangement of said jars, and means for moving said carrier into proximity to and from said jars, means for inverting said receptacles so as to present the caps therein to said jars, and means for effecting rotation of said receptacles and the caps therein so as to thereby cause screw caps to be screwed on the jars.

2,638,259
FILLING MACHINE
Robert W. Garrett, Scarsdale, N. Y., assignor to Garrett & Company, Inc., Brooklyn, N. Y., a corporation of New York
Application June 15, 1949, Serial No. 99,136
8 Claims. (Cl. 226—96)



1. In a container filling machine, the combination of a revolving container carriage, a revolving filling head positioned above said container carriage, means forming a chamber in said head, partitions dividing said chamber-forming means into a plurality of filling compartments, container filling means leading from each of said compartments for filling an equal

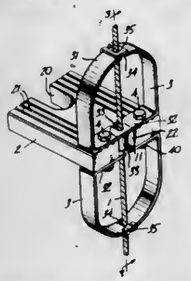
number of corresponding containers on said carriage, and separate sources of supply of different fluent filling materials leading severally to the respective compartments in said head.

2,638,260

FLEXIBLE SHIP LADDER

Torger Skolmen, George G. Roberts, and John G. Euson, Seattle, Wash.; said Skolmen assignor to said Roberts and said Euson, jointly

Application July 14, 1952, Serial No. 298,688
10 Claims. (Cl. 228—40)



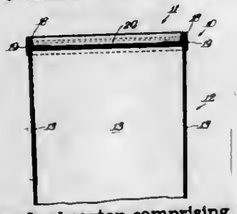
1. A pilot's ladder or the like comprising a plurality of broad treads of like length which in use are located at spaced vertical intervals, two flexible, tensional supporting members extending vertically along the opposite ends of said treads, located intermediate their front and rear edges, a pair of D-shaped frames at each end of each tread, one disposed transversely above and one transversely below such end, and contacting the respective surfaces of the tread along the flat sides of the respective frames, means joining the tread's ends to the frames in such relationship, means supportingly interengaged between each tensional supporting member and the flat side of one such frame at the corresponding end of each tread, to sustain a load placed upon the tread, and retaining means interengaging the rounded side of each frame with the corresponding tensional supporting member.

2,638,261

FROZEN FOOD CARTON WITH PLASTIC LID

William J. Poole, Evanston, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application May 10, 1948, Serial No. 26,172
6 Claims. (Cl. 229—5.5)



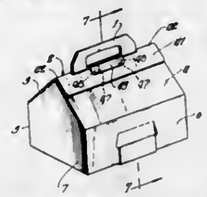
3. A frozen food carton comprising, an open top paperboard body substantially rectangular in cross section and having at one corner thereof a lengthwise lap joint extending to its upper edge, and a substantially rectangular plastic friction cover having a downwardly opening peripheral recess tapering upwardly, said recess being of uniform width for the major portion of its extent and of increased width at a corner of said cover to accommodate said lap joint and fitting tightly over the upper edge portion of the wall of said body with the opposed surfaces of said recess contacting the inner and outer surfaces of said wall and compressing the latter between said opposed surfaces thereby providing a tight friction seal between said cover and said body.

2,638,262

CARTON

Ersel C. Mulnix, Highland Park, Ill.

Application June 18, 1949, Serial No. 99,891
6 Claims. (Cl. 229—39)



1. A fiberboard blank for forming a carton having a rectangular tubular body, a bottom, and a gabled top, said blank comprising pairs of side and end wall panels arranged in alternate relationship, mutually adjacent side edges of said panels being integrally foldably interconnected, the panel at one end of the blank being provided with a flap integrally foldably connected to said panel and adapted to be attached to a marginal side portion of the wall panel at the other end of the blank to form said tubular body, said end wall panels each having upper portions provided with oppositely inclined upper edges defining the angle of said gabled top, flaps respectively extending from the bottom edges of certain of said wall panels and adapted to be folded into bottom forming relation thereto when the latter are formed into said tubular body, a pair of top forming panels respectively integrally hingedly connected at their lower edges to the upper edges of said side wall panels and foldable relative thereto respectively into top forming, body closing positions in the planes of the respectively adjacent inclined edges of said end walls, one of said top panels being provided with a handle-forming extension which embodies two foldably interconnected sections, one of which is integrally foldably connected to the upper edge of said top panel and the other of which is provided with a base part having end portions extending beyond the end edges of said handle forming sections, said handle sections being foldable into face-to-face relation to form a two-ply handle and to position said base part below the top edge of the top panel from which said handle sections extend, the other of said top panels being provided with a top flap which is integrally hingedly connected to the upper edge of said other top panel, said top flap being adapted to be folded on its said hinge connection into face-to-face overlapping relation to the handle-bearing top panel when said top panels are folded into said body closing position, the hinge connection between said top flap and said other top panel serving to define the ridge portion of the gabled top and there being provided adjacent said ridge, an opening through which said two-ply handle is movable as an incident to the folding of top panels to closed position whereby said end extensions of the base portion of said handle will be disposed in underlying relation to said ridge portion of the top for supporting engagement therewith, said opening being shaped to provide a pair of oppositely disposed lips which project into said opening, and the top panel which underlies said top flap when the blank is formed into a carton and closed, being provided with cuts which form in said panel, an ear which is displaceable facewise from the plane thereof through said opening, said ear having end tabs which are adapted to extend into lapping relationship to said lips whereby, when said ear is displaced outwardly through said opening, said tabs and lips will be caused to pass one another and assume lapping positions in which said tabs overlie said lips and thereby serve to lock the carton in closed condition, foldable gussets integrally connecting the opposite ends of said flap-bearing top panel and the respectively adjacent gable defining edges of said end walls, and flaps integral with the other gable defining edges and adapted to be folded inwardly of the carton from the respective end walls to provide stop ledges for the handle bearing top panel.

2,638,263

FLEXIBLE BAG FOR VACUUM SEALING

Charles J. Jesnig, Newtown Square, Pa., assignor to Duo-Vent Vacuum Closure Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 20, 1949, Serial No. 94,405
4 Claims. (Cl. 229—62.5)



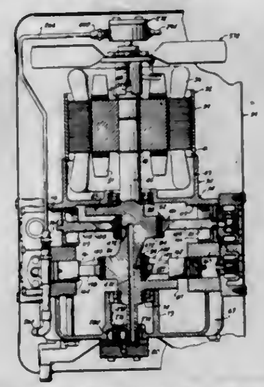
1. A flexible bag, comprising a sheet of air-tight flexible material formed into a portion at least of a bag, a pre-formed valve unit sealed to an area of said sheet and forming with said area a box-like enclosure having appreciable depth relative to said sheet, said valve unit being of appreciably greater stiffness than the sheet to which it is attached and comprising a wall surface defining a well partially closed at the inner end by a radially inwardly extending transverse valve seat having a generally annular bore, the axis of which is substantially normal to said area, the outer end of said wall merging into a mounting flange generally parallel to the transverse valve seat and extending radially outwardly of said wall and sealingly engaged with said area, with the portion of the area extending transversely across the well forming an upper substantial closure of said enclosure, a resilient valve element having a stem disposed in said bore, a flexible flange mounted on the stem and overlying the valve seat within the well and forming with the stem and valve seat the inner substantial closure of the enclosure spaced from and protected by said portion of the area, means for effectively anchoring the stem in the bore in spaced relation to said flexible flange, first means forming a conduit for gases from the interior of the bag to the flexible flange radially inwardly of the valve seat, second means forming a conduit for gases from the interior of said enclosure to the exterior of the bag, said stem in position being under an initial tension to hold the flexible flange against the valve seat predetermined to retain the sealing engagement of the flexible flange against said valve seat until a predetermined differential of gas pressures externally and internally of the bag exist in such sense as to permit the lifting of the flexible flange from the valve seat within the enclosure by flow through the first means to vent a given excess internal pressure from the bag, while sealing said valve against said valve seat by pressure through said second conduit means when the differential pressures externally and internally of the bag are in the opposite sense.

2,638,264

UNLOADER FOR FLUID COMPRESSORS

Lindsay H. Browne, Weston, Conn., assignor to American Brake Shoe Company, Wilmington, Del., a corporation of Delaware

Original application March 2, 1948, Serial No. 12,610. Divided and this application March 16, 1951, Serial No. 215,977
7 Claims. (Cl. 230—7)



1. An unloader of the type adapted to be used on a compressor having an oil pump, comprising a valve operable in one position to effect loading of such a compressor and out of said position to effect unloading of said compressor, means adapted to move said valve into said one position, said means including a spring connected to said valve and fluid pressure actuated means responsive to oil under pressure from the oil pump of such a compressor during the operation of the latter, and other means including a second spring and a lever disposed in position to operatively engage said valve for rendering said first named means inoperative to move said valve into said one position when either the speed of operation of the compressor is below a predetermined speed or the pressure of the oil discharged by the pump of the compressor is below a predetermined pressure, said other means being ineffective to render said first named means inoperative to move said valve to said one position when the speed of the compressor is above a predetermined speed and the pressure of the oil discharged by the oil pump of the compressor is above a predetermined pressure.

2,638,265

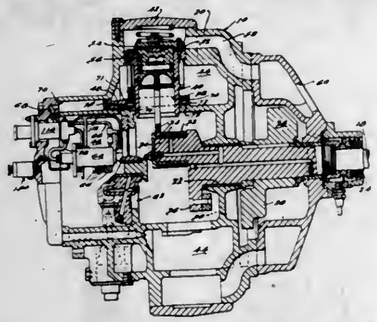
COMPRESSOR UNLOADING APPARATUS

Alwin B. Newton, Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application January 3, 1946, Serial No. 444
8 Claims. (Cl. 230—31)

1. In a motor driven multi-cylinder compressor set having a first means for unloading individual cylinders thereof, a fluid pressure responsive means adapted to selectively overrule the action of said first means with respect to individual cylinders to load said individual cylinders under predetermined operating conditions, means

to deliver fluid under pressure to said fluid pressure responsive means including a source of fluid under pressure and a master valve adapted to be positioned by said fluid, said valve comprising a fixed member and a relatively movable member, one of said members being provided with a plurality of discharge ports and a first inlet port, said movable member being adapted to control the communication of fluid from said inlet port to said individual discharge ports in relation to its position relative to said fixed member, said one



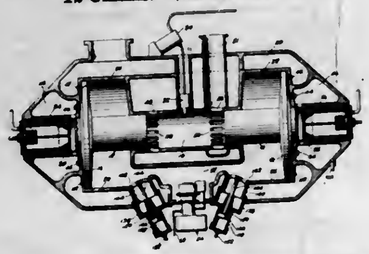
member having a second inlet port for the admission of fluid to position said movable member relative to said fixed member, means operatively connecting said discharge ports with their respective fluid pressure responsive means, means to deliver fluid from said source to said first inlet port and means to deliver fluid from said source to said second inlet port, said last mentioned means including a suction pressure responsive valve of the modulating type adapted to regulate the delivery of fluid to said second inlet port in response to suction pressure in said compressor.

2,638,266

STARTING SYSTEM FOR FREE-PISTON UNITS

Donald E. Meitzler, Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application June 11, 1947, Serial No. 753,945
12 Claims. (Cl. 230—56)
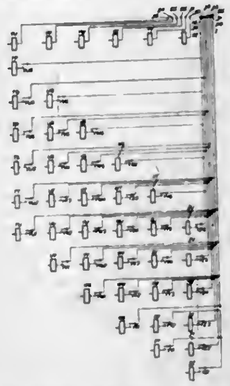


1. A starting system for a free-piston unit, said unit including an engine cylinder and piston, a compressor cylinder and piston, said cylinders being connected together and said pistons being connected together to form a reciprocating piston assembly, an air spring including cylinder and piston parts one of which is connected to the piston assembly and the other of which is connected to the engine and compressor cylinders, said compressor cylinder having inlet and discharge valves at one end for controlling the flow of gas into and out of said one end of the compressor cylinder, means for closing the other end of the cylinder to form a pressurized space, and valve means communicating with said other end of the cylinder for venting said space, said starting system including an accumulator for gas under pressure with means for admitting gas to said accumulator, means including a fluid connection between said accumulator and the air spring cylinder and a valve in said connection for venting said accumulator into the air spring for moving the piston assembly on the starting stroke, means for admitting gas under pressure to said pressurized space for moving the piston assembly to the outer end of its power stroke prior to operation of the accumulator venting means, and pressure responsive means connected to said gas admitting means for holding said space-venting means closed during the admission of gas under pressure to said space.

2,638,267

BINARY MULTIPLYING CIRCUIT

George Clifford Hartley and William John Reynolds, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Continuation of application Serial No. 492,060, June 24, 1943. This application February 28, 1948, Serial No. 11,896. In Great Britain May 10, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 10, 1961
5 Claims. (Cl. 235—61)



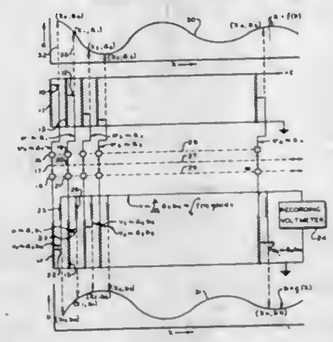
1. An electrically operated calculating apparatus for performing multiplication of numbers in binary form comprising a plurality of relays arranged electrically in rows with the last relay of each row lined up with the next to the last relay of the next adjacent row to form columns of relays corresponding to the columns used in long-hand multiplication, there being a relay in each row for each digit of a multiplicand to be entered into said apparatus, an individual operating circuit for each relay including a switch to connect said relay to said operating circuit, a separate means for each row of relays simultaneously to control said switches associated with all the relays of that row, said operating circuits of each row being connected respectively to the circuits of all the other rows in the same sequence along the rows, means to energize said operating circuits for a combination of said relays determined by the digital values of a multiplicand entered into said apparatus, means to close the switches in a combination of rows of said relays determined by the digital values of a multiplier entered into said apparatus, a plurality of registering devices, there being one for each column of said relays, carry-over control devices for each column, separate energizing circuits associated respectively with said devices, the energizing circuits for a particular device containing contacts of the relays in the column of relays associated with that device, and means in each of said circuits controlled by the relays in the corresponding column, further means in each of said circuits controlled by the carry-over control devices of the next lower column, each of said circuits controlling the energization of its registering device so as to register a digital value for the corresponding denomination of the product of said multiplicand and said multiplier and to determine carry-over to the next higher denomination thereof.

2,638,268

COMPUTER FOR EVALUATING COMPLEX INTEGRALS

Raymond M. Redheffer, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application April 5, 1946, Serial No. 659,711
4 Claims. (Cl. 235—61)



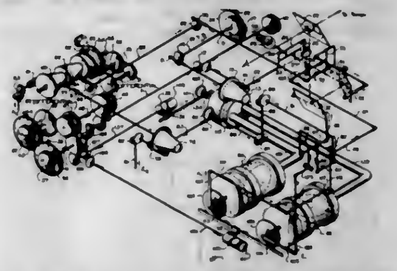
3. A computer for evaluating the summation of the product of two series of terms comprising, a voltage source, a first series of potentiometers energized from said source, the movable taps of successive potentiometers being displaceable to provide a series of output voltages representing successive terms of the first of said series of terms, a second series of potentiometers, switching means for sequentially connecting successive additional potentiometers of said second series to predetermined corresponding successive potentiometers of said first series at the movable taps thereof, the movable taps of successive potentiometers of said second series being displaceable in accordance with successive terms of the second of said series of terms to produce at the movable taps of said second series of potentiometers a series of output voltages representing products of corresponding terms in sequence of said two series of terms, a plurality of equal value isolating resistors for connecting together the movable taps of said second series of potentiometers into a summing network to produce a resultant voltage proportional to the sum of said series of output voltages, and means for recording the successive resultant voltages produced as successive additional potentiometers of said second series are energized in sequence from said corresponding potentiometers of said first series to evaluate the integral between selected variable limits determined by said switching means.

2,638,269

BALLISTIC MECHANISM

Carl G. Holschuh, Huntington, and David Fram, Brooklyn, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application August 22, 1942, Serial No. 455,968
3 Claims. (Cl. 235—61.5)



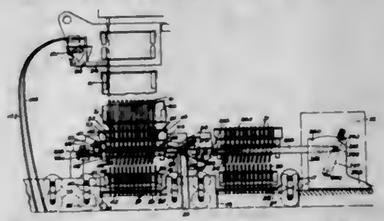
1. In a ballistic computer for airborne ordnance, a plurality of manually adjustable knobs having individual logarithmic dials, differential means actuated by said knobs according to logarithms of predetermined functions of altitude and air speed of the supporting aircraft and slant range of a target, anti-logarithm means actuated by the output of the differential means for providing a linear output displacement proportional to the product of said functions, three-dimension ballistic cam means displaced in one dimension by the output of the anti-logarithm means and in another dimension according to gun azimuth, the ballistic cam means being laid out to provide output ballistic deflections according to magnitude of the displacements imparted to the cam.

2,638,270

MECHANISM FOR SENSING STATISTICAL RECORD CARDS

Charles Thomas Arthur Jones, Wallington, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company

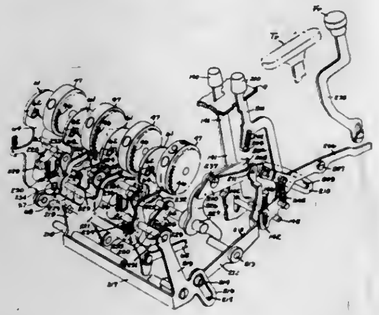
Application November 7, 1950, Serial No. 194,463
In Great Britain November 8, 1949
20 Claims. (Cl. 235—61.11)



9. In a statistical machine of the class described, record card sensing means, card engaging elements to locate a record card relative to said sensing means in positions respectively at which during succeeding sensing cycles normal

or interstage data representations on a card can be sensed, selectively operable means actuated under control from the sensing means to render a predetermined section of the sensing means effective during a sensing operation, and settable means operable under control from the sensing means to determine which card engaging element is to be rendered effective to locate a card in sensing position during the succeeding sensing cycle.

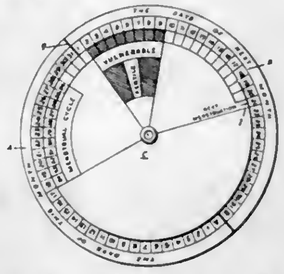
2,638,271
DUPLEX CALCULATING MACHINE
Walter J. Pasinski, Howell, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application October 6, 1950, Serial No. 188,832
6 Claims. (Cl. 235—62)



1. In a calculating machine having manipulative amount entering means, a first register comprising registering wheels for a plurality of numerical orders to accumulate amounts entered through said manipulative means, and carry means between registering wheels of successive orders, a second register, a drive means operable through an operating cycle, amount transferring means operable by said drive means to transfer to said second register, in a portion of said cycle, amounts previously accumulated on the registering wheels of said first register in orders higher than a predetermined order, and "0" setting means for each of the registering wheels of said first register and operable by said drive means to set that registering wheel to "0" in a later portion of said cycle, the combination of a yielding connection in each of the "0" setting means for the registering wheels for said predetermined order and any lower orders of said first register, means to hold the registering wheels of said predetermined order and any lower orders of said first register against rotation during operation of said "0" setting means, means operable by said drive means to render said holding means effective during said later portion of said cycle, and manipulative means to control said rendering means.

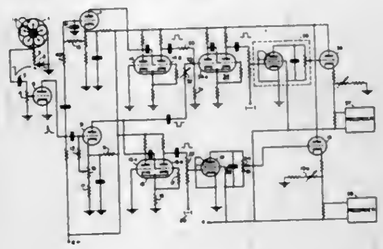
2,638,272
INDICATOR
Lewis Owens Heck, London, England
Application September 20, 1951, Serial No. 247,387
In Great Britain October 13, 1950
2 Claims. (Cl. 235—88)

1. A menstrual and fertility indicating instrument comprising three superposed dials mounted on a central pivot for independent rotation, the first and second dials having circumferential graduations representing days of the current month and the succeeding month respectively, and the third uppermost dial having circumferential graduations representing menstrual cycle, vulnerable and fertility periods, and also having an arrow pointer, the second dial being cut away partially circumferentially so as to expose the graduations of the first dial when rotated over it and having a radial edge forming a cursor to enable it to be set selectively on the first dial with the graduation denoting the first day of the succeeding month immediately following the



last day of the current month, so that when the third dial is rotated to bring the graduation thereon denoting the known menstrual period opposite to the date on the first dial on which menstruation occurred in the present month, the graduation on the third dial corresponding to vulnerable and fertility periods is positioned opposite to the corresponding days of the succeeding month on the first or second dial, and the arrow or pointer on the third dial is positioned opposite to the graduation on the first or second dial denoting the succeeding date of menstruation.

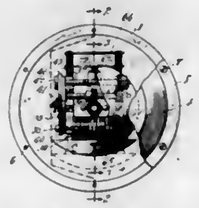
2,638,273
DUAL-CHANNEL COUNTING RATE METER
Garold K. Jensen, Pinecrest, Va., and James E. McGeogh, Silver Spring, Md.
Application October 18, 1949, Serial No. 122,072
2 Claims. (Cl. 235—92)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A frequency meter for separately indicating electrical signals above and below a given amplitude and produced by a single pulse source, comprising a first amplifier coupled to said source and biased to pass only the impulses produced thereby above said given amplitude, a second amplifier biased to pass signals both above and below said given amplitude, a time delay circuit

coupling said source to said second amplifier operative to synchronize the output leading edges of the high amplitude pulses translated by both of said amplifiers, a first pulse generator fed by said first amplifier operative responsive to an output signal therefrom to produce an output pulse of finite width, a second pulse generator fed by said second amplifier operative responsive to a signal therefrom to produce an output pulse of lesser width than the pulse from said first pulse generator, a third pulse generator fed by said second pulse generator and operative responsive to an output therefrom for producing an impulse of fixed duration, means coupled to said third pulse generator and responsive to an output from said first generator to block operation of said third generator during an output pulse from said first generator, and indicating means fed by said first and third pulse generators for separately indicating the respective output frequencies.

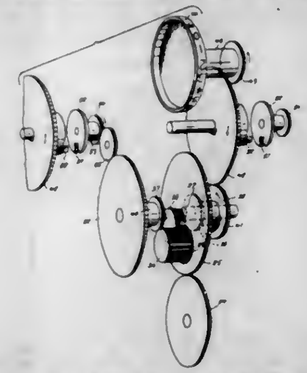
2,638,274
HUB ODOMETER
Howard G. Engler, Short Hills, N. J., assignor to Engler Instrument Company, Jersey City, N. J., a corporation of New Jersey
Application January 26, 1952, Serial No. 268,368
8 Claims. (Cl. 235—95)



1. An odometer comprising a casing having a coaxial drive shaft fixed therein, means for fastening said casing to and for rotation of said shaft coaxially with a rotating element, a registering mechanism arranged as a unit and relatively rotatably mounted on the shaft inside the casing to permit the casing to rotate thereabout, and a counterweight resiliently and slidably carried by the unit below the axis of rotation of the casing for movement transversely of said axis, for damping the oscillations of the mechanism, and means for cushioning the movement of said counterweight in one direction.

2,638,275
ACCUMULATOR FOR USE IN STATISTICAL MACHINES
Arthur Thomas, Wallington, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company
Original application January 28, 1948, Serial No. 4,765. Divided and this application January 18, 1950, Serial No. 139,270. In Great Britain February 3, 1947
3 Claims. (Cl. 235—136)

1. In each order of a crawl carry accumulator the combination of an actuator, a differential cage meshing with said actuator, a pair of intermeshing planetary gears carried by said cage, a sun gear meshing with one of said planetary gears, a driving gear coaxial and rotatable with said sun gear, a resultant gear meshing with said driving gear, and a second sun gear rotated by the movement of the resultant gear of the next lower order in accordance with the carry from



lower orders, in mesh with the second of said planetary gears.

2,638,276
RAIL FASTENING
Karl Stamm, Berlin-Wilmersdorf, Germany
Application May 27, 1950, Serial No. 164,758
In Germany November 10, 1948
5 Claims. (Cl. 238—349)

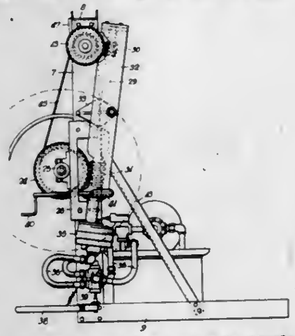


1. A rail fastening comprising a tie-plate for supporting the rail, a leaf spring lying on a rail flange, a pin for holding down the spring against said flange, guide means anchored to said tie-plate for securing said pin in relation to said tie-plate and for permitting relative guided movement of said pin, said pin being operatively positioned with its longitudinal axis substantially parallel to the flange surface, said pin having a surface for bearing on said spring, said surface extending between two points differently spaced from the pin axis, and interengagement means as between the pin and the spring for preventing undesired withdrawal of said pin from said guide means when the spring and pin are operatively positioned for fastening the rail to the tie-plate.

2,638,277
BROOM MACHINE
Ernest C. C. Miller, Laurelton, N. Y.
Application February 19, 1947, Serial No. 729,467
1 Claim. (Cl. 242—7)

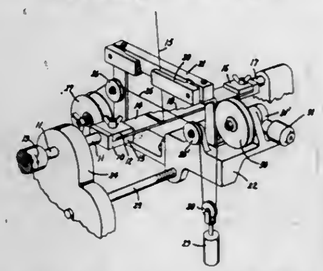
In a machine of the character indicated, a cable drum for winding a broom cable, broom-drum supporting means for a broom to be serviced, braking means for said cable drum and for a broom drum held in said supporting means, a worm wheel associated with said cable drum for driving the same, a worm wheel for driving a broom drum held by said supporting means, a casing pivotally supported between said worm wheels for selective rocking toward one or the other of said worm wheels, worm means carried by said casing for selective engagement with one of said worm wheels upon such rocking action,

and a hydraulic motor for driving said worm means, said motor being carried by said casing,



whereby rotary drive may be selectively applied either to said cable drum or to a broom drum by a simple rocking operation of said casing.

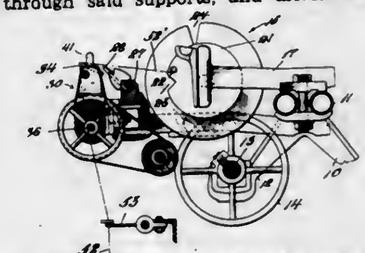
2,638,278
WINDING MACHINE WITH MINIMUM TURN SPACING DEVICE
Benjamin B. Scott, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 18, 1949, Serial No. 100,043
12 Claims. (Cl. 242—9)



1. A winding machine comprising driving means for rotating a support, wire feeding means movable by said driving means for feeding a wire to the support so to wind the wire in spaced turns on the support, and a yieldable turn spacing member on said feeding means, means for tensioning said spacing member, said spacing member being physically oriented for interposition between the wire and the last turn on the support for spacing each turn a predetermined distance from the preceding turn.

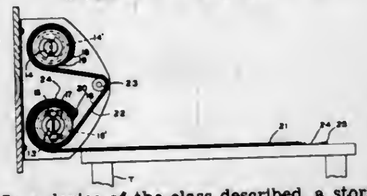
2,638,279
AUTOMATIC TAIL WINDER FOR YARN PACKAGES
Albert E. Winslow, Greenville, S. C., assignor to J. P. Stevens & Co., Inc., a corporation of Delaware
Application June 28, 1948, Serial No. 35,576
11 Claims. (Cl. 242—18)

1. In a winder, twister, or the like having a plurality of take-up packages, means for rotating said take-up packages, a reciprocally movable traverse for traversing the yarn lengthwise of the package to wind the yarn thereon, a stationary support adjacent each said packages, a tail winding guide slidably mounted on each of said supports for holding the yarn out of engagement with said traverse and for directing the yarn to be wound at one end of said packages for forming a tail thereon, a common drive means extending through said supports, and driven means



within each of said supports operatively connected to said guides and movable independent of each other for slidably moving the guide associated therewith to release the yarn held thereby from engagement therewith a predetermined time after started in operation to permit said yarn to be engaged by said traverse.

2,638,280
ROLLER FILE
Charles L. Beaudrot, Jr., Hapeville, Ga.
Application June 14, 1950, Serial No. 168,083
2 Claims. (Cl. 242—55)

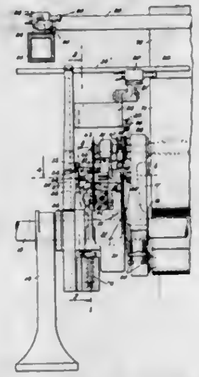


1. In a device of the class described, a storage roller spring-pressed to wind upon it a plurality of sheets of sheet material to be stored, means to hold said roller in certain fixed positions, a temporary-storage roller connected to said storage roller by flexible strip material, said temporary-storage roller being spring-pressed to wind said strip material thereonto whenever it is unwound from said storage roller, the spring pressure on said temporary-storage roller being less than that on said storage roller, guide means positioned in cooperative relation to said temporary-storage roller and over which said flexible strip material passes to form a shelf, whereby any desired sheet of said plurality of sheets may be unwound from said storage roller for examination and the undesired sheets overlying said desired sheet may be temporarily wound upon said temporary-storage roller by placing the free ends thereof upon said shelf when said desired sheet is unwound.

2,638,281
WEB ACCELERATING MECHANISM FOR WEB SPLICING DEVICES
Paul L. Tollison, North Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application October 7, 1950, Serial No. 188,937
11 Claims. (Cl. 242—58)

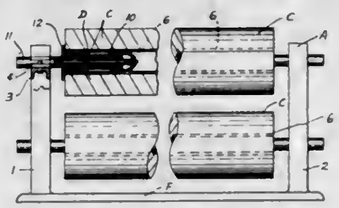
1. In a device of the character described, the combination with a web roll reel rotatable about

a central axis and having radially extending angularly spaced arms carrying rotatable web roll supporting spindles adjacent their ends, means for successively accelerating web rolls carried by said several reel arm spindles in preparation for splicing the webs of the accelerated rolls to a web running from another roll comprising a frame mounted to turn about the reel



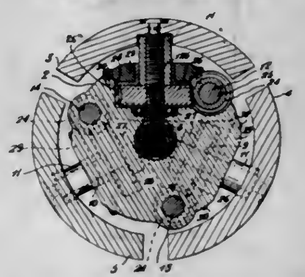
axis adjacent the reel, a driving motor carried by said frame, means for releasably connecting said frame to said reel at points adjacent said reel arms, a clutch for releasably connecting said driving motor to the spindle of a reel arm adjacent said frame, and means operated by movement of said reel about its axis for operating said releasable connecting means and said clutch at selected points during the rotation of said reel.

2,638,282
SHORT CORE SHAFT
Bruno E. Prevost, North Andover, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application September 3, 1948, Serial No. 47,570
1 Claim. (Cl. 242—72)



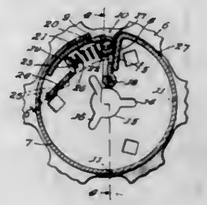
In a releasable anchor shaft for use in supporting one end of a cylindrical core, said shaft having a journal portion and an anchor portion, the combination of an annular positioning flange fixed on said shaft between said anchor and journal portion; an elongated centering sleeve of resilient material slidably mounted on said shaft and abutting on said flange; a non compressible spacing sleeve slidably mounted on said shaft and abutting on said centering sleeve; an anchoring sleeve of said resilient material slidably mounted on said shaft and abutting on said spacing sleeve, said anchoring sleeve being of less length than, but of substantially identical radial cross section to, said centering sleeve; a pressure head, mounted at the end of the anchor portion of said shaft and abutting on said anchoring sleeve and means, operable from the journal end of said shaft, for moving said pressure head toward said positioning flange.

2,638,283
COLLAPSIBLE DRUM
Michael J. Bebech, Masury, Ohio, assignor to Poe Machine & Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application April 20, 1951, Serial No. 222,048
8 Claims. (Cl. 242—72)



1. In a collapsible drum, a support shaft having an axially positioned bore therein, a plurality of arcuate drum sections, a control shaft for each said drum section journaled in said support shaft spaced from the center thereof, a support screw fixedly secured to each of said drum sections and extending radially inwardly therefrom, said support screws for different ones of said drum sections being spaced axially of the drum and being movable to and through the bore thereof, a worm gear in threaded engagement with each of said support screws, means for positioning said worm gears for rotary movement only, worm means connecting said control shafts individually to said worm gears for rotating same, gear means carried by each of said control shafts, and a drive gear engaged with all of said gear means to couple same together for driving them as a unit.

2,638,284
FILM REEL FASTENER
Eugene Thomas Rahfuse, Hamilton, Ohio, assignor of one-half to Charles W. Ball, Hamilton, Ohio, Martha Rahfuse, Hamilton, Ohio, executrix of said Eugene Thomas Rahfuse, deceased
Application January 19, 1950, Serial No. 139,450
3 Claims. (Cl. 242—74)



1. In a reel structure of the character described, a pair of side disks in spaced parallel relation, a hub serving as a distance piece between the disks

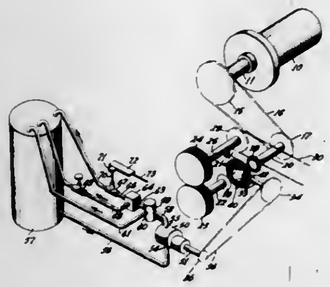
and comprising a band shaped in the form of a cylinder with one end turned inwardly to provide a clamping abutment face and the other end spaced circumferentially from said bent end to provide a film end receiving clearance, means securing the edges of the hub band to said disks, and clamp means shiftable between an out-of-the-way position away from the abutment face to permit insertion of a film end inwardly through said clearance and a clamping position in which it grips the film end securely against said abutment face, said clamp means including a generally L-shaped clamp member having a base portion disposed to cooperate in substantially parallel clamping relation with the abutment face of the hub, and an arcuate body portion extending in generally concentric relation to the hub band, said clamp member being equipped with a finger piece extending laterally out through a slot in one of the reel disks, there also being included spring means constantly tending to press the base portion of the clamp means against the abutment face of the hub.

2,638,285

TORQUE REGULATOR FOR REELS

Fred L. MacQuarrie, Los Angeles, and Frank S. Woods, Montebello, Calif., assignors, by mesne assignments, of fifty and one-half per cent to said MacQuarrie and forty-nine and one-half per cent to said Woods

Application April 1, 1950, Serial No. 153,394
4 Claims. (Cl. 242—75)



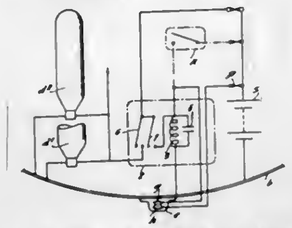
3. A constant tension rewind device for strip material emerging at constant speed from a work operation comprising a rewind reel, a differential gearing comprising three rotatable power transmitting elements, a direct positive driving connection from one of said elements to the reel, a direct positive driven connection from a second of said elements to a source of power, a pump and a direct positive driving connection from a third of said elements to said pump, a pump fluid reservoir, a supply conduit from the reservoir to the pump, a normally open control conduit from the pump, a valve in the control conduit having an outlet conduit therefrom, a normally closed spring loaded valve in said outlet conduit and a rewind torque control valve in said outlet conduit outwardly from the spring loaded valve having a manually variable setting adapted to establish a preselected constant operating resistance in the pump discharge conduit at a pressure greater than the opening pressure of the spring loaded valve.

2,638,286

AIRCRAFT CRASH OR IMPACT DETECTING DEVICE AND ELECTRIC SYSTEM ASSOCIATED THEREWITH

Anders Mathisen, London, England, assignor of one-half to Graviner Manufacturing Company Limited, a British company, and one-half to The Wilkerson Sword Company Limited, a British company, both of London, England

Application March 13, 1951, Serial No. 215,346
In Great Britain March 20, 1950
14 Claims. (Cl. 244—1)



1. In an aircraft, apparatus for automatically intiating the operation of safety equipment such as fire-preventing or extinguishing equipment for the aircraft in the event of crash or impact, comprising a crash or impact detecting device mounted substantially adjacent to the surface skin of a predetermined vulnerable portion of the aircraft which portion is subject to possible damage or severance during flight by contact with obstructions external to the aircraft, an electrical circuit for connection to the safety equipment and operable in response to the operation of said detecting device to initiate the operation of said equipment, said circuit comprising voltage supply means, relay means disposed within said aircraft at a location remote from said vulnerable portion and having an energizing winding electrically coupled to said detecting device and said voltage supply means for energization thereby when said detecting device is operated, said relay means having contacts adapted, when actuated in response to energization of said relay means, to complete circuit connections from said voltage supply means to the safety equipment to initiate operation thereof, and an auxiliary circuit no part of which passes through said vulnerable portion of the aircraft and connected in parallel with said energizing winding for ensuring energization of said winding for a period of time long enough after operation of said detecting device to permit said contacts to close regardless of whether said device or its electrical connections is severed or disabled after operation of said device, said auxiliary circuit including an electrical energy storage device having a capacitance chargeable to a predetermined electrical charge level substantially instantaneously after the operation of said detecting device to serve as a reservoir of electrical energy for discharge through said winding ensuring continued energization thereof until actuation of said contacts.

2,638,287

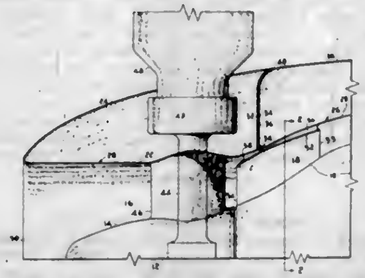
AIRCRAFT COWLING SEAL

Leo Avondoglio, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application May 6, 1949, Serial No. 91,706
7 Claims. (Cl. 244—53)

1. In an aircraft cowling including a rotating spinner having an annular air duct therethrough

disposed in advance of a stationary cowling having an annular internal duct forming a continuation of the spinner duct, there being a gap subject to air leakage between said spinner and cowling through which air leaks from the duct to the lower pressure area surrounding the cowling, an annulus overlying said gap within said ducts and in spaced relation to the walls of the adjacent spinner and cowling duct walls, said



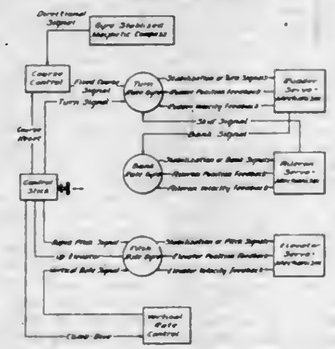
annulus defining, with said duct walls, an annular venturi having the gap opening into its throat; said venturi serving to equate the pressure of a small portion of the air passing through said ducts at and adjacent the inner part of said gap within said ducts to the pressure of the air coexisting at the outer part of said gap exteriorly of said cowling, thereby to suppress the passage of air through and across said gap.

2,638,288

CONTROL SYSTEM FOR CRAFT OPERABLE IN SPACE

Clinton R. Hanna, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 14, 1947, Serial No. 785,983
124 Claims. (Cl. 244—77)



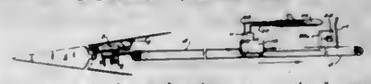
56. In a system of control for angularly positioning a body having freedom of angular movement about at least two axes, the combination of, first and second motor means each operable to control the angular position of said body about one of said axes, first and second velocity responsive means, one for each axis, responsive to the velocity of angular movement of the body about the corresponding axis, for producing an electrical quantity in dependence of the angular velocity of the body about the corresponding axis; means for applying the electrical quantities produced by the first and second velocity responsive means, respectively, to the first and second motor means, means for producing additional electrical quantities in dependence of the velocity of operation of each of the first and second motor means; means for algebraically combining the additional electrical quantity of said first motor means with at least a part of the electrical quantity of said second velocity responsive means for controlling the response of said first velocity responsive means to the velocity of angular movement of the body about the axis thereof associated with the first velocity responsive means, means for algebraically combining the additional electrical quantity of said second motor means with at least a part of the electrical quantity of said first velocity responsive means for controlling the response of said second velocity responsive means to the velocity of angular movement of the body about the axis thereof associated with the second velocity responsive means, means for producing electrical quantities in response to the position of each of said first and second motor means, and means for applying the electrical position quantities of the first and second motor means, respectively to the first and second velocity responsive means for controlling the response of each thereof to the velocity of angular movement of the body about the axes thereof associated with each of said velocity responsive means.

2,638,289

HYDRAULIC STICK CONTROL

John D. McKellar and Ronald E. Crandall, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application February 5, 1949, Serial No. 74,728
9 Claims. (Cl. 244—83)



1. In an airplane having a control surface moved in accordance with movements of a pilot's control element, a cylinder adapted for holding a fluid, a central ridge in said cylinder extending internally from the cylinder bore, a rod movable with said control element entering said cylinder and having a central shoulder thereon smaller in diameter than the inner diameter of said ridge, a piston slidably mounted on said rod on each side of said shoulder, one of said pistons on each side of said ridge, the periphery of each of said pistons being sealed to the interior of said cylinder to prevent fluid flow therearound, elastic means in said cylinder and bearing against said pistons and the ends of said cylinder to urge said pistons toward said shoulder, and a fluid duct between each end of said cylinder and a central point in said cylinder at said ridge between said pistons, and means for restricting fluid flow through said duct in accordance with an aerodynamic load imposed on said airplane.

2,638,290

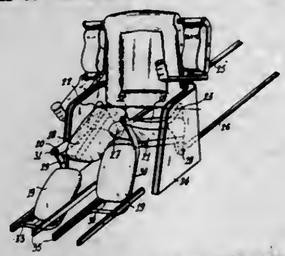
CONTROL MEANS FOR FLYING MACHINES

Jacques André Marie Lecarme, Aix-en-Provence, France, assignor to Societe Anonyme dite: Societe Nationale de Constructions Aeronautiques Du Sud-Est, Paris, France

Application February 9, 1949, Serial No. 75,426
In France February 18, 1948
2 Claims. (Cl. 244—86)

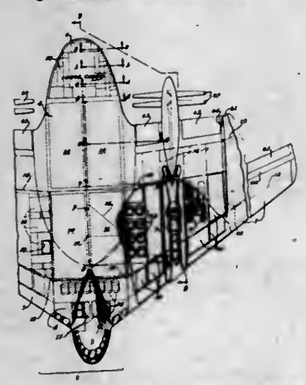
1. In a control device for a flying machine having at least a vertical control surface, a pilot

seat comprising a frame fixedly mounted on the flying machine and which carries a back-rest, a pair of first supports on which respectively bear the under parts of the pilot's thighs, said supports being independently pivoted on said frame around a common horizontal axis located under said back-rest and being respectively formed with substantial vertical and downwardly directed extensions which act as levers, a pair of second supports on which respectively bear the pilot's calves, said second supports being pivotally secured respectively to the outer ends of said first supports, foot-rests respectively carried by the outer ends of the supports of said second pair,



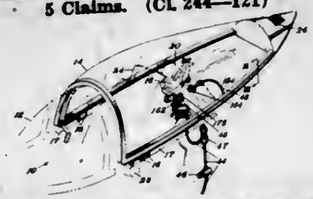
guiding devices for guiding the outer ends of said last supports along lines which are substantially parallel to the longitudinal axis of the flying machine, and bars pivotally mounted at the free ends of said extensions, said bars being directed toward the back of the seat for connecting said extensions with the vertical control surface, whereby a pilot being seated on said seat and having his lower limbs supported by said supports controls said vertical control surface by simultaneous displacements in reverse directions of the outer ends of the supports of the second pair under the action of corresponding movements of his legs.

2,638,291
ALL-WING CARGO PACK
John K. Northrop, Hawthorne, Meyer Fishbein, West Los Angeles, and Donald B. Smith, North Hollywood, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application July 17, 1950, Serial No. 174,204
3 Claims. (Cl. 244—118)



1. A tailless all-wing cargo airplane comprising swept-back wings, a center section extending aft from the trailing edge of said wings at the fore-and-aft center line of said airplane, said center section merging smoothly into the adjacent wing structure and having a height equal to the maximum wing thickness at said center line, a main structural bulkhead assembly in the vertical plane at said center line from which said wings are supported, front and rear wing spars crossing said center section laterally at right angles to said bulkhead assembly, and structurally connected to said bulkhead along vertical lines, said bulkhead and said spars defining a plurality of rectangular adjacent cargo holds in said center section, said cargo holds being located to the rear of each of said spars, on both sides of said bulkhead, and extending vertically for a majority of said center section height, and access doors mounted in the bottom of said center section to expose substantially the complete volume of all said cargo holds when said doors are open.

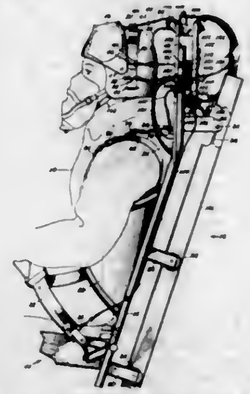
2,638,292
COCKPIT SEALING SYSTEM
Richard C. Horne, Dallas, and David F. Stoddard, Arlington, Tex., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 7, 1951, Serial No. 214,322
5 Claims. (Cl. 244—121)



1. In an aircraft structure having an aperture communicating with an internal cavity: a closure for said aperture, a hollow expansible seal extending completely about said aperture and disposed between said closure and said structure; a source of gas under pressure; means for attaching said closure to said structure; tubing for conducting gas from said source to said hollow expansible seal whereby said seal expands to make an airtight joint between said closure and said structure, a valve in said tubing for opening and closing the same including a port having an inlet to said source of gas, a port having a connection with said tubing, a vent to the atmosphere and a plunger having a gate for controlling the flow of gas through said valve, and an atmospheric pressure responsive means connected to said plunger for moving the same whereby gas is admitted from said source to said tubing through said valve ports to inflate the tubing to form a hermetic seal between said closure and said structure in response to a predetermined atmospheric pressure and whereby gas is vented from said tubing through said vent to deflate said tubing in response to said predetermined pressure after said tubing has been inflated.

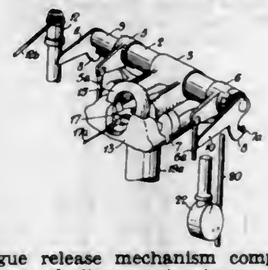
2,638,293
RESTRAINING AND RELEASING DEVICE FOR PILOTS
Frithjof J. Lindstrom, Stratford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application February 10, 1951, Serial No. 210,304
13 Claims. (Cl. 244—122)

1. A device for aircraft for restraining the movement of the head of an occupant of said aircraft during sudden changes in the velocity of said aircraft comprising: a head gear adapted to be worn by said occupant; a flexible member connected to said head gear; means for exerting a force on said flexible member yieldably to pull said head gear in one direction; means responsive to sudden changes in the velocity of said aircraft parallel to said one direction and operatively



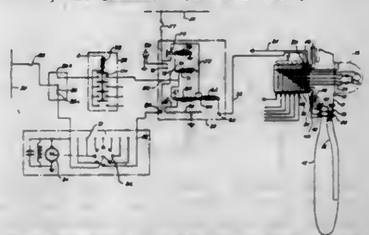
associated with said last mentioned means for locking said flexible member against movement to prevent movement of said head gear parallel to said one direction and means including a drogue parachute having an operative connection with said flexible member and said head gear for disconnecting said flexible member from said head gear.

2,638,294
CONTROL MEANS FOR USE WITH EJECTION SEAT OF AIRCRAFT
James Martin, Higher Denham, near Uxbridge, England
Application March 16, 1951, Serial No. 215,966
In Great Britain March 22, 1950
11 Claims. (Cl. 244—122)



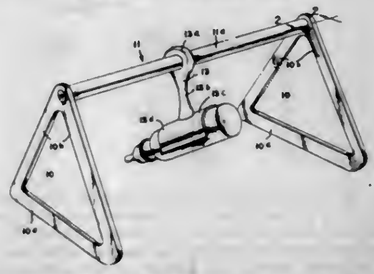
7. Drogue release mechanism comprising an inner torque shaft, an outer torque shaft, the shafts being free to turn independently of one another, means on the outer shaft for releasing the seat lock mechanism, a member on the outer shaft normally holding the shackle to an aircraft seat frame, locking means mounted on the seat frame retaining said member in position, means on the inner shaft for holding said locking means against movement, time delay mechanism actuating said means on the inner shaft to release the locking means to allow the said member to be moved to release the drogue shackle from the seat, the shackle during its withdrawal transmitting a drive through said member to the outer shaft to release the seat lock mechanism, said time delay mechanism comprising a latch, a sear rod for releasing said latch, a push rod device attached to the holding means on the inner shaft, a main spring actuating said push rod device on release of the latch, and a gear train and escapement controlling the movement of said push rod device.

2,638,295
PROPELLER DEICING MECHANISM
Jack H. Sheets, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 19, 1947, Serial No. 742,562
10 Claims. (Cl. 244—134)



1. In a de-icing system for a propeller comprising a hub having a plurality of blades mounted therein, a blade heater circuit including an electrical heater on each blade, an electrical power supply for said heaters, said heaters normally drawing a certain current for a certain impressed potential, a switch in said blade heater circuit operable to disconnect and closable to connect said heaters relative to said power supply, and means responsive to deviations in heater current from said certain current, when said heaters are energized, to open said switch.

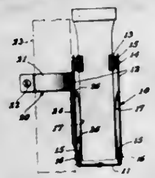
2,638,296
NURSING BOTTLE SUPPORT
Wingate Battle, Atlantic Beach, Fla., assignor of twenty per cent to John E. Veith, Arlington, Va., and twenty per cent to Norman R. Bronie, St. Petersburg, Fla.
Application August 11, 1950, Serial No. 178,935
3 Claims. (Cl. 248—105)



3. A nursing bottle support comprising a pair of similar end frames of triangular contour extending vertically in parallel spaced relation and rigidly connected in their upper apical areas by an elongated rigid connecting member, said support adapted to straddle a prone infant with the connecting member spaced above the prone infant, a resilient rubber bottle holder unit mounted upon and depending from said connecting member, said unit comprising a head portion,

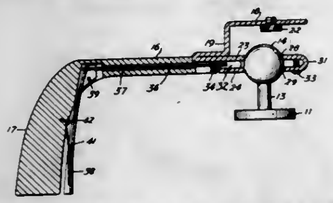
a pair of bottle holding jaws and a neck portion connecting the jaws with the head portion, said head portion having a laterally extending opening complemental with the contour of the connecting member, said neck portion being of reduced cross-section to permit twisting movements of the jaw portion.

2,638,297
ARTICLE HOLDER
Morris Weinberger, New York, N. Y., assignor of one-half to Dora M. Klein, Cedarhurst, N. Y.
Application February 2, 1950, Serial No. 141,901
4 Claims. (Cl. 248—126)



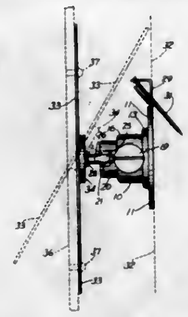
1. In an article holder, a substantially U-shaped, one-piece holder frame, closed at one end and having legs extending from that closed end, a pair of individually operable, bent spring blades pivotally associated at one of their ends with the leg ends adjacent the closed end of the frame, said blades, while within the frame, normally engaging with their free ends the interior faces of the legs so that their bent body portions between their ends extend toward one another, said blades being adapted, when swung out of the frame, to assume with their major body portions such divergent angular positions in respect to the frame so that wide-spread points of support for the frame are provided as the edges of the bent blades and the closed end of the frame come to rest upon a supporting surface.

2,638,298
TRIPOD HEAD
John T. Peterson, Rockford, Ill.
Application April 19, 1948, Serial No. 21,979
8 Claims. (Cl. 248—181)



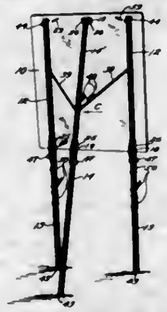
1. In combination, a ball adapted for connection to a support, an instrument support means mounted on said ball for universal movement including spaced members engageable with said ball on opposite sides of a plane passing through the center of the ball, one of said members being normally urged toward the other, said members being movable between a position in which said members grip said ball to hold said means in fixed relation to the ball and a position in which said means is free to move universally of the ball and a movable wedge mounted on said support means and shaped to be inserted between said members for moving the members to the latter position.

2,638,299
DISPLAY MOUNT
Berenice Abbott, New York, N. Y., assignor to House of Photography, Inc., New York, N. Y., a corporation of New York
Application May 7, 1948, Serial No. 25,820
1 Claim. (Cl. 248—181)



A display mount comprising a cup-shaped base adapted to be attached to a support, said base having a coaxial post thereon, the outer end of said post being recessed, a plate for supporting an article to be displayed, means for disposing said plate at various angular positions with respect to said base and for locking said plate in such positions, said means comprising a rod rigidly attached to the rear of said plate and having a ball end fitted into the recess of said post, a cup surrounding said ball end and said post and fitted within said base, said cup being slotted to receive said rod in various angular positions thereof, said cup having a circumferential groove therearound, and a set screw threaded through the base and engaging said groove for the purpose of moving said cup axially against said ball as said set screw is tightened.

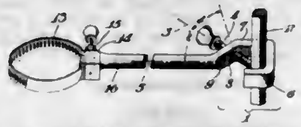
2,638,300
COLLAPSIBLE DISPLAY AND LECTURE STAND
Jean De Jen, Fairfield, Conn.
Application December 26, 1947, Serial No. 793,959
3 Claims. (Cl. 248—197)



1. A collapsible display stand comprising in combination, a rigid work board having a rear broadside surface by which to be supported and an opposite front broadside display face to be maintained fully bare and accessible in both collapsed and erected conditions of the stand, a hip leg rigid from end to end overlapping said rear surface of the board having one of its ends hinged

to the latter and having its other end free for swinging movement toward and away from the board, three floor legs, three hinge structures each incorporating a single hinge pin, two of said pins respectively coupling two of said floor legs to said rigid board and the other of said pins coupling the other of said floor legs to said free end of the rigid hip leg, and each of said hinge pins confining the floor leg coupled thereby to swinging movement about a single pivotal axis displaced rearwardly from said front display face of the board, and three pairs of mutually abutting stops, one stop of each pair being fixed on one of said floor legs, the other stop of two of said pairs being fixed on said rigid board, and the other stop of the third of said pairs being fixed on said rigid hip leg, said stops in each of said pairs mutually engaging in a manner to permit and restrict swinging movement of all of said floor legs from overlapping relation to said rear surface of said board to positions extending away from said work board, at least one of said hinge structures including a rigid channel member stationed fixedly on said rear surface of said board and a cooperative rigid channel member stationed fixedly on one of said floor legs, said channel members having mutually overlapping side walls penetrated by said hinge pin, and said stops comprising mutually abutting edges of said channel members, whereby said legs are precluded from swinging into overlapping relation to said front face of the board.

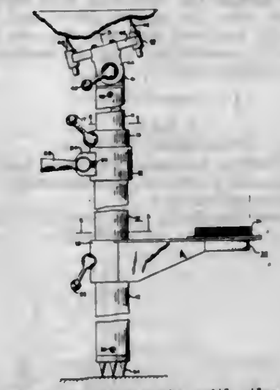
2,638,301
ATTACHMENT STRUCTURE FOR LABORATORY CLAMPS
Donald M. Smith, Wilmington, Del.
Application January 28, 1947, Serial No. 724,757
4 Claims. (Cl. 248—229)



1. In a laboratory clamp, the combination of an attachment structure adapted to partially encircle a support rod, and a connecting bar extending from one end of said attachment structure; said attachment structure comprising a V-shaped piece which is disposed on the end of the attachment structure away from the connecting bar and which is adapted to receive said support rod, a thumb screw mounted in a hole threaded in said attachment structure across from said V-shaped piece and adapted to hold said support rod firmly against said V-shaped piece, and an opening in said attachment structure through which the support rod can pass; the center lines of the connecting bar and the thumb screw extending away from the attachment structure at an angle of from about 20° to about 70° relative to each other.

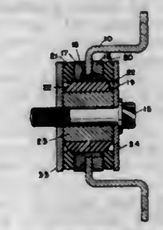
2,638,302
TRANSIT SUPPORT
Charles H. Reed, Bobtown, Pa.
Application January 23, 1950, Serial No. 140,064
1 Claim. (Cl. 248—354)

A survey instrument for supporting a surveying transit comprising, a longitudinally telescoping post member including a male section and a female section, one of said sections being longer than the other when the two sections are fully extended, a friction clamp collar on the male section, means to frictionally clamp said collar upon the said male section at any selected position and block the telescoping movement of that section with respect to the female section, said collar having a threaded skirt portion, said female section having a threaded portion, said threaded portion of the female section and said threaded skirt portion of the collar having opposite hand threads, a vernier collar having first



thread means to cooperate with the threaded portion on said female section and second thread means to cooperate with the threaded skirt of the collar, the post member being thereby roughly adjustable in length to fit snugly between a mine floor and ceiling and being wedged tightly in place by actuation of said vernier collar to further extend said post member, said post member having a swivel foot member on at least one end thereof, and a vertically adjustable transit table carried by said longer section.

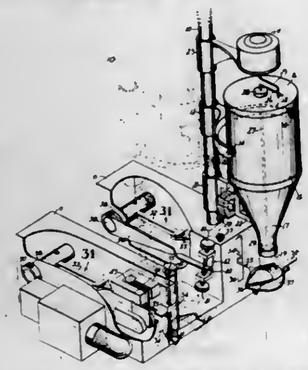
2,638,303
SHOCK MOUNT
Ervin Pleta, Cambridge, Mass., assignor, by mesne assignments, to United States of America as represented by the Secretary of the Navy
Application March 12, 1946, Serial No. 653,907
2 Claims. (Cl. 248—358)



1. A resilient mount for instruments and the like comprising a support member having a mount receiving opening therein, an annular bushing lining said opening and embracing said support member and having inner and side surfaces to engage with resilient material, a sleeve of resilient material mounted within and in engagement with the said inner surface of said bushing, a pair of rings of resilient material surrounding said resilient sleeve at the opposite ends thereof and being in engagement with the said side surfaces of said bushing and having a portion of their inner surfaces in engagement with

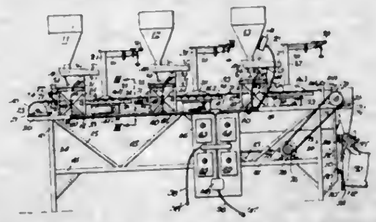
said resilient sleeve, the ends of said resilient sleeve being tapered away from the area of engagement with said resilient rings and providing a space between said resilient sleeve and a portion of the inner surfaces of said resilient rings for deformation and expansion of the resilient material, a pair of spaced washers having portions in engagement with the outer sides of said rings of resilient material, a spacer sleeve between said washers and within said resilient sleeve, and detachable means for retaining said washers in engagement with the spacer sleeve and in contact with the resilient material, thereby providing a readily assembled and disassembled independent resilient unit.

2,638,304
WEIGHING DEVICE
Henry F. Coffey, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
Application March 22, 1949, Serial No. 82,869
1 Claim. (Cl. 249—3)



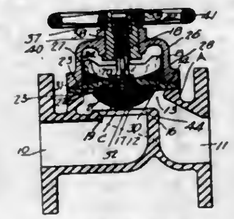
In a machine for automatically, successively, and repetitively weighing predetermined small dose amounts of finely powdered medicinals; said machine including a supply hopper for said medicinal having a discharge orifice; means for discharging said medicinal from said orifice and means for arresting said discharge when the weight quantity of said predetermined dose amount has been discharged therefrom, the combination of a weighing beam of small mass comprised of a flat spring section fixed at one of its ends to one end of a light, rigid section; a scoop; means formed on the opposite end of said rigid section for removably supporting said scoop, the opposite end of said spring section being fixed to an adjustable beam support member mounted below and at such distance to one side of said discharge orifice as to cause the beam-supported scoop to lie in spaced relation beneath and in substantial vertical alignment with said discharge orifice for movement in an arcutae path; a stop member adjacent the scoop-supporting end of said rigid section adjustable to arrest the latter against upward movement in said path; means associated with said adjustable beam support to flex said spring section an amount sufficient to preload said beam substantially to the equivalent of the weight of said predetermined small dose amount whereby the arcuate movement of said beam about said support is reduced to a minimum compatible with effecting actuation of said means for arresting discharge of said medicinal, and repetitive dose amount weighing operations are materially expedited; said adjustable beam support member comprising a rotatably mounted shaft; and said means for flexing said spring section comprising a lever affixed at one end to said shaft and opposed adjusting screws cooperatively associated with the opposite end of said lever to impart adjusting movement thereto and lock said lever in adjusted position.

2,638,305
WEIGHT PROPORTIONING MEANS AND METHOD
Robert L. Miller, Berkeley, Calif.
Application April 4, 1949, Serial No. 86,974
10 Claims. (Cl. 249—14)



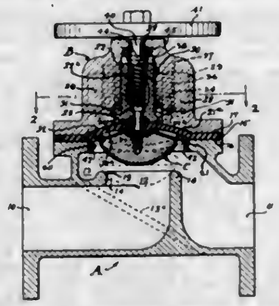
1. The method of combining, prior to mixing, a plurality of dry ingredients having different particle sizes to form a mixture having a predetermined composition by weight which includes the step of providing equally spaced separate weighing and loading stations for the delivery of each ingredient, the step of controlling the deposit of each such ingredient onto an intermittently movable endless belt by weighing through the belt while the belt is at rest at such stations, and moving the said belt to the next weighing and loading station as soon as the cumulative weights of the said layers of ingredients presently and previously deposited on the said belt have attained predetermined values.

2,638,306
DIAPHRAGM VALVE
Ronald Fortune, Hamilton, Ontario, Canada
Original application December 15, 1943, Serial No. 514,344. Divided and this application June 4, 1948, Serial No. 31,117
10 Claims. (Cl. 251—31)



1. A valve, comprising, a body portion and a bonnet having corresponding openings, a fluid-impermeable flexible diaphragm clamped between said body portion and said bonnet across said openings whereby to seal said bonnet from said body portion, an inlet and an outlet in said body portion, a circular passageway in said body portion connecting said inlet and said outlet, a stem mounted in said bonnet along the axis of said diaphragm adapted to be moved toward and away from said passageway, a follower member connected to said stem, a valve member fastened to said stem below said diaphragm, adapted to cooperate with said passageway to open and close it, means for clamping said follower member, diaphragm and valve member at their centers, means in said bonnet against which the free flexing area of the diaphragm abuts when the valve is in fully opened position, said follower member having a convex surface adjacent the outer surface of the diaphragm and being normally spaced from said diaphragm surface except at the central clamped portion, said valve member having an upper portion smaller in circumference than said openings in order to enable said upper portion to pass through said openings, the face of said valve member adjacent said diaphragm being spaced therefrom, except immediately surrounding the clamped center, when the valve is in closed position, and being provided with means to lock said diaphragm in the region of its free flexing area against said means in said bonnet against which the free flexing area of the diaphragm abuts when the valve is in fully opened position.

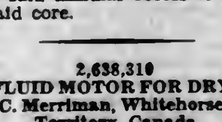
2,638,307
DIAPHRAGM VALVE
Ronald Fortune, Hamilton, Ontario, Canada
Application November 22, 1947, Serial No. 787,541
9 Claims. (Cl. 251—31)



1. In a diaphragm valve which includes a valve body and a bonnet having a diaphragm sealing the bonnet from the body, said diaphragm being clamped at its marginal edges and at its centre, means for supporting the diaphragm against inward displacement and fluttering due to vacuum and the like when the valve is open, comprising a valve member positioned concentrically with and inwardly of the diaphragm, said valve member having ribs extending radially and upwardly therefrom and defining the upper convex contour of the valve member, said ribs being designed to engage said diaphragm when outwardly moved and the valve member is unseated thereby to support the diaphragm from inward flexing movement and fluttering.

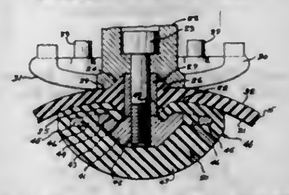
2,638,308
SAFETY VALVE FOR AIR BRAKE SYSTEMS AND THE LIKE
Eugene L. Kell, San Francisco, Calif.
Application December 23, 1947, Serial No. 793,416
5 Claims. (Cl. 251—121)

1. A check valve for use in a fluid line operable to inhibit the passage of fluid therethrough when the flow rate of the fluid reaches a predetermined velocity, said valve comprising a hollow body defining therein a valve space, an inlet orifice at one end of said body communicating with the valve space, an outlet orifice at the other end of said body communicating with the valve space, said outlet orifice being disposed opposite said inlet orifice and being substantially the same size as said inlet orifice, a well formed within said body in alignment with said orifices, said well being laterally offset with respect to said orifices and being located in closer proximity to said inlet orifice than to said outlet orifice, a



ball disposed within said body, said ball being complementary to said well and being seatable in said outlet orifice, an angularly inclined surface within said body extending from said well to a point adjacent the edge of said outlet orifice, said valve space having a portion, laterally offset from said orifices in a direction of offset opposed to the direction of offset of said well, said portion having a dimension in its direction of offset approximately equal to the diameter of said ball.

2,638,309
COATED VALVE MEMBER
Ronald Fortune, Hamilton, Ontario, Canada
Application October 29, 1949, Serial No. 124,357
9 Claims. (Cl. 251—161)

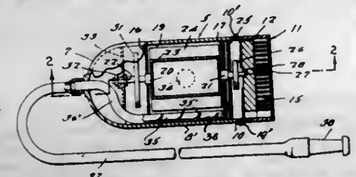


1. A valve member for a diaphragm valve comprising a rigid core, a centrally located, threaded recess in said core to enable said member to be mounted in a valve and to be locked to a diaphragm at its center, a rigid, narrow, annular pressure limiting seat formed about said recess, an annular recess formed in said rigid core immediately adjacent said annular pressure limiting seat, said seat being between said threaded recess and said annular recess, an elastomer envelope on said core terminating around said pressure limiting seat whereby said core is completely sealed by said envelope when assembled in said valve, and an inverted frustro-conical recess formed by said envelope about said pressure limiting seat, a portion of said envelope extending inwardly to said annular recess to lock the envelope to said core.

2,638,310
ROTARY FLUID MOTOR FOR DRY SHAVERS
Lester C. Merriman, Whitehorse, Yukon Territory, Canada
Application February 6, 1948, Serial No. 6,792
3 Claims. (Cl. 253—2)

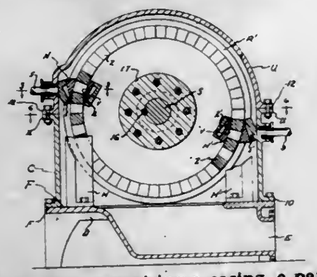
1. In a pneumatic motor adapted for operation by the breath of a user, an elongated closed end casing serving as a handle and comprising a rotor chamber having a cylindrical side wall and end walls, said end walls being longitudinally spaced from the ends of said casing, a rotor in said chamber extending between said end walls having

longitudinally elongated blades extending the length of the rotor having edges running close to the cylindrical side wall of said chamber, said rotor having shaft portions journalled in said end walls and extending axially beyond said end walls into the spaces between said end walls and the adjacent ends of the casing, a conduit within and extending along one side of said chamber and formed with a longitudinal opening in its inward side extending the length of said chamber between said end walls, the side wall of the casing



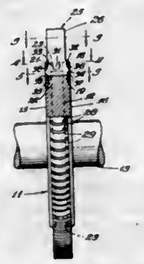
being formed with a breath discharge opening circumferentially spaced from said conduit, said conduit having a closed end and an open end, a breath tube having an end connected to the open end of said conduit and another end adapted to be placed in the mouth of the user whereby the user's breath can be expelled through the tube to drive the rotor, said conduit having longitudinally spaced baffles therealong for directing the breath coming through the breath tube against the rotor vanes through said longitudinal conduit opening.

2,638,311
TURBINE
Alois Diethelm, Spokane, Wash.
Application June 26, 1950, Serial No. 170,413
8 Claims. (Cl. 253—51)



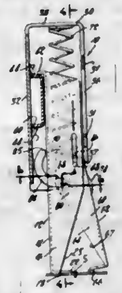
1. A turbine comprising a casing, a pair of rotors secured in spaced apart relation upon a shaft and disposed within said casing, bearing supports for said shaft, an injector head disposed between said rotors, said injector head having in each of its opposite sides an arcuate groove concentric with said shaft, the inner side of each of said rotors having a series of laterally projecting blades spaced apart in an annular arrangement concentric with said shaft so as to travel in the arcuate groove on its respective side of said injector head, said blades being spaced apart an amount equal to their thickness, each side of said injector head having a pair of nozzles disposed at one end of the arcuate groove thereof, said nozzles being directed away from the head and toward the receding face of a blade emerging from the groove in the head, said nozzles being disposed at an inclination toward each other which precludes the jets thereof from intersecting within one of the spaces between said blades when discharging therein, the blades of one rotor being staggered with relation to those of the other rotor so as to present a space between the blades to the open nozzles in one groove while the nozzles in the other groove are closed by a blade, and a single inlet feeding all four of said nozzles.

2,638,312
TURBINE WHEEL
Edmund Jedrzykowski, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 13, 1946, Serial No. 716,147
7 Claims. (Cl. 253—77)



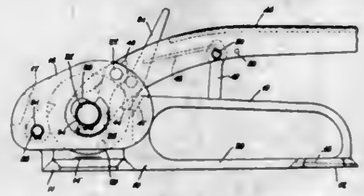
1. In combination, a turbine wheel having circumferentially spaced peripheral slots communicating between opposite end faces of such wheel, said wheel also having recess means extending circumferentially of the wheel within at least one of said end faces in intersecting relation with end portions of said slots, blades associated with said slots, said blades including shanks respectively disposed in said slots and having notched edges disposed substantially flush with the end faces of said wheel, the notches of said blade shanks registering with said recess means circumferentially of the wheel, and means for anchoring said shanks in said slots comprising a ring of welding metal disposed in said recess means and in the shank notches, and said ring of metal having a weld union with the sides of said recess means and with the sides of said notches.

2,638,313
STAPLE EXTRACTOR
Herbert W. Marano, Brooklyn, N. Y., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 30, 1950, Serial No. 171,500
11 Claims. (Cl. 254—28)



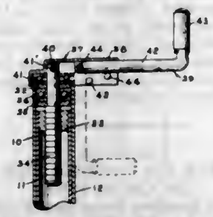
1. A staple extractor comprising a first staple engaging leg member and a second staple engaging leg member pivotally mounted on the first leg and normally swung away therefrom in non-operative relation thereto, a plunger disposed about the upper ends of the legs and operatively associated therewith for sliding movement downwardly along the length of the first leg, the second leg being reciprocably slidable within the plunger, initial downward movement of the plunger along the first leg engaging the second leg and pivoting said second leg into operative staple engaging relation to the first leg, further downward movement of the plunger raising the second leg within the plunger.

2,638,314
HAND STRAP TENSIONING TOOL
Bernard T. McFerren, Youngstown, and Fred S. Seybert, Warren, Ohio, assignors, by mesne assignments, to Sharon Steel Corporation, Sharon, Pa., a corporation of Pennsylvania
Application June 14, 1951, Serial No. 231,588
6 Claims. (Cl. 254—51)



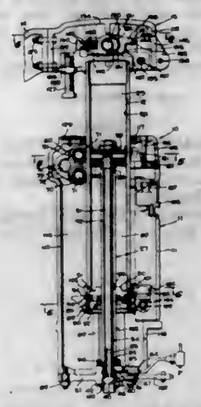
1. In a stretching tool, the combination of a frame, a feed wheel shaft, a feed wheel journaled on said shaft, means swingably mounting said shaft in said frame permitting raising and lowering said feed wheel, a handle lever journaled on said shaft, a ratchet pawl operatively connecting said handle lever to said feed wheel, a shoulder on said frame for abutting said handle lever, said shoulder providing a fulcrum about which the handle lever may rock to raise the feed wheel, and a stop arm pivoted on the handle lever operatively connected to said pawl and normally engaging the frame to prevent rocking the handle.

2,638,315
TRAILER ATTACHED JACK
Carl J. Wagner, Detroit, Mich.
Application February 3, 1947, Serial No. 726,022
2 Claims. (Cl. 254—86)



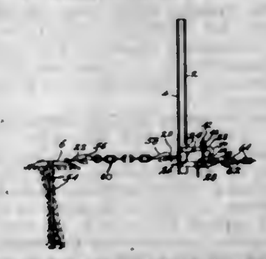
1. In a hoist to be mounted upon a trailer frame comprising telescopically engaged inner and outer tubes, the outer tube forming a hollow post extending upward above its attachment to the trailer frame, a ground engaging member at the lower end of the inner tube and a screw rotatably secured to the upper end of said post and threadedly engaging the inner tube to raise and lower the same; means for rotating said screw including a member directly secured to the screw having a portion forming a cap for the post with an inverted channel-shaped bracket portion extending radially outward beyond the same and a crank handle having a shank portion extending into said channel and pivotally secured thereto.

2,638,316
POWER UNIT FOR A WELL PIPE SLIP ASSEMBLY
Gird E. Mullinix, South Gate, Calif., assignor to Byron Jackson Co., Los Angeles, Calif., a corporation of Delaware
Application January 14, 1950, Serial No. 138,589
8 Claims. (Cl. 254—93)



1. In a power unit for lifting a lateral support arm carrying a well pipe slip assembly, the combination of: a stationary frame, an upright post, guide rollers carried on the upper portion of the frame engaging the post, a trunnion ring rotatably mounted on the lower end of the post and having laterally extending trunnions, rollers on the trunnions guided by vertical trackways on the frame, the upper end of the post extending above the frame, attachment parts on said upper end of the post for securing the lateral support arm thereto, and cooperating fluid operated elements for raising the post relative to the frame.

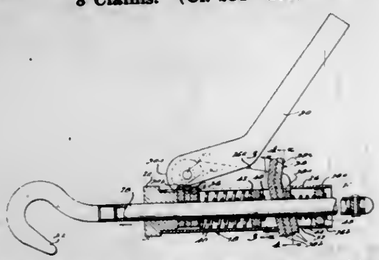
2,638,317
VEHICLE MOVER
Roy S. Towse, Weiser, Idaho, assignor to Utility Tool Company, Inc., Weiser, Idaho
Application July 18, 1949, Serial No. 105,387
3 Claims. (Cl. 254—105)



1. In a combination jack and vehicle puller, a post constituting a lever and adapted to be

used as a portion of a jack, a ground plate adapted to be detachably mounted at the lower end of said post and removable therefrom for use as an anchor, said plate being formed with openings, elongated spikes of dimensions adapting them to be passed through the openings and driven into the ground and removably secure the plate upon the ground, an eye projecting upwardly from said plate, a ring loosely mounted through said eye for vertical tilting movement, a ring disposed laterally of said post and loosely mounted through an opening in the lower portion of the post for vertical tilting movement, a chain having hooks at opposite ends engageable through the rings and thereby removably mounting the chain between the plate and the post, hooks pivoted to the lower portion of said post above and below the ring carried thereby and projecting from the post at the opposite side thereof from its ring, and a load chain having links engageable by the hooks in step by step pulling movements during rocking movements of the post.

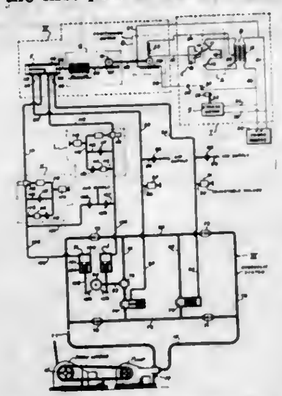
2,638,318
LOADING APPARATUS
Sulo Michael Nampa, Detroit, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application November 29, 1945, Serial No. 631,674
8 Claims. (Cl. 254—106)



3. In a force applying device, the combination of a reaction member, a load engaging member, means for moving the load engaging member relative to the reaction member comprising a body and a pair of friction clamps, one of the clamps being an actuating clamp and the other one of the clamps being a holding clamp, an operating lever pivotally mounted on the body and having means thereon operative upon movement of the lever in one direction for actuating the actuating clamp, said lever also having means thereon operative upon movement of the lever in the other direction for disabling the holding clamp.

2,638,319
CONTROL MECHANISM FOR HYDRAULIC SYSTEMS OF ROTARY DRILLING RIGS
Robert R. Crookston, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application November 29, 1950, Serial No. 198,189
3 Claims. (Cl. 254—173)

1. A control system for controlling the speed of rotation of the drawworks of a rotary drilling rig having a weight indicator capable of producing signals varying in response to changes in the weight carried by the drill bit and having a hydraulic system for altering the weight carried by the drill bit comprising, in combination, a pump mechanically connected to the drawworks for pumping hydraulic fluid upon rotation of the drawworks, a hydraulic circuit connecting an outlet of said pump with an inlet thereof, said hydraulic circuit having a manifold which includes a first by-pass line controlled by an air-actuated first normally closed valve and a second by-pass line controlled by an air-actuated second normally open valve and by a needle valve, an air motor assembly mechanically connected to the needle valve having a first exhaust outlet and a second exhaust outlet and arranged to rotate the valve element of said needle valve in a clockwise direction when the first exhaust outlet is connected to the atmosphere and in a counterclockwise direction when the second exhaust outlet is connected to the atmosphere, an exhaust valve consisting of a body having four ports and a valve element movable in the valve body arranged to assume a first position connecting the first port to the atmosphere, a sec-



ond position connecting the second port to the atmosphere, a third position connecting the third port to the atmosphere, a fourth position connecting the fourth port to the atmosphere and a fifth position in which flow of air through all of said ports is prevented, an air line connecting said second port of the exhaust valve to said first exhaust outlet of the air motor assembly, an air line connecting said third port of the exhaust valve to said second exhaust outlet of the air motor assembly, an air line connecting the actuating assembly of said second normally open valve to the first port of said exhaust valve, an air line connecting the actuating assembly of said first normally closed valve to said fourth port of said exhaust valve, and electrical control means actuated by the weight indicator arranged to move the valve element to a selected one of said five positions in response to signals received from said weight indicator.

2,638,320
PIPE CUTTER OR REAMER FOR USE ON CROOKED PIPE
Elmo L. Condra, Long Beach, Calif.
Application June 18, 1949, Serial No. 99,998
2 Claims. (Cl. 255—1)

1. A pipe cutter or reamer to cut through one side of pipe, comprising a tube, pipe coupling means on the upper end of said tube, an annular cutter fixedly mounted on the lower end of said tube, radially projecting cutter teeth on said cutter, a mandrel projecting from the bottom of said tube and slidable longitudinally therein,

spaced shoulders in the tube engageable by the mandrel on longitudinal movement thereof to limit upward and downward movement of the mandrel within the tube, a head fixedly mounted



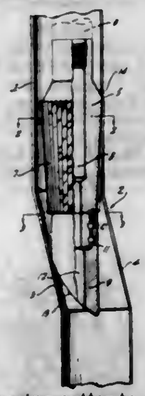
on the lower end of said mandrel, an annular sleeve rotatably mounted on said head, and radially projecting wings on said sleeve.

2,638,321
UNDERWATER CORE BARREL
Charles C. Isbell, Long Beach, Calif.
Application October 7, 1949, Serial No. 120,085
6 Claims. (Cl. 255—1.4)



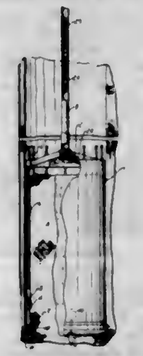
1. An under water core barrel comprising an outer tubing, a core cutter unit suspended in said tubing, said core cutter unit comprising a camera cylinder, an explosion chamber and a core cutter arranged in superimposed position, latch means mounted on the tubing and engaging the core cutter unit, and means to disengage the latch means to permit the core cutter unit to drop downwardly in the tubing and sample the formation, a jet nozzle on the bottom of the tubing and a water jet pipe extending into said tubing.

2,638,322
OIL WELL CASING CUTTER FOR SIDE WINDOWS
Elmo L. Condra, Long Beach, Calif.
Application March 3, 1950, Serial No. 147,508
2 Claims. (Cl. 255—1.6)



1. An oil well casing cutter to cut side windows in misaligned pipe sections with an inclined pipe section connecting the misaligned sections, comprising a cutter head, cutter blades on the outside of said head, pipe coupling means on the upper end of said head, said head having a fluid passage extending longitudinally therethrough, a guide shoe rotatably mounted on the lower end of said head, anti-friction bearings positioned between the guide shoe and said head whereby the shoe is rotatably mounted, an eccentric point on the bottom of the guide shoe engaging the inclined section of the casing to press the cutter head against one side of the casing, and said guide shoe having a fluid passage extending longitudinally therethrough.

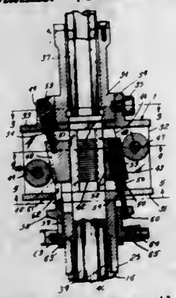
2,638,323
MEANS AND METHOD OF REMOVING CORES
Thomas C. Bannon, Altadena, Calif., assignor of fifty per cent to Lloyd Spencer, Los Angeles, Calif.
Application December 3, 1948, Serial No. 63,245
14 Claims. (Cl. 255—1.8)



1. In the art of bore drilling wherein an annular core bit is employed to drill a section of hole in which remains a central core, the method of removing such core, characterized by: directing

explosive charges radially inwardly at the base of a core while protecting the surrounding wall from the effect thereof; and simultaneously placing tensile strain on said core, thereby to sever said core across its base to permit removal.

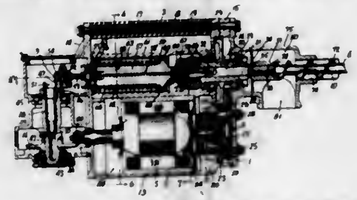
2,638,324
CHUCK MECHANISM FOR AN OIL WELL DRILLING APPARATUS
Charles F. Ball, Franklin, Pa., and Edward M. Luce, Dallas, Tex., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 4, 1948, Serial No. 24,946
8 Claims. (Cl. 255—22)



1. In a drilling apparatus, the combination with a rotating mechanism for a drill stem and reversible feeding mechanism for a drill stem, said rotating mechanism including a rotatable element and said feeding mechanism including means effective to feed said element axially selectively in opposite directions, of a double acting chuck mechanism carried by and rotatable with said rotatable element and embodying a casing having an axial passageway for receiving the drill stem, oppositely acting chuck jaws arranged in said casing about said passageway, means for guiding said jaws comprising relatively inclined guides of substantially the same extent and disposed between said casing and said jaws for guiding the latter toward and away from the axis of said passageway, said guides disposed in a common transverse zone with respect to said casing and the guides inclined in one direction alternating with those inclined in the opposite direction, yieldable means between said casing and said jaws for urging the latter toward gripping position, said oppositely acting chuck jaws adapted to grip selectively the drill stem automatically in accordance with the direction of axial movement of said rotatable element, and a shiftable member mounted on said casing for selectively rendering said chuck jaws effective to grip the stem and embodying oppositely acting shifter elements respectively engaging said oppositely acting jaws for rendering said oppositely acting jaws concurrently ineffective with said jaws disposed in a common transverse zone with respect to said casing.

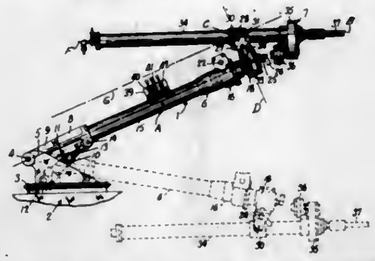
2,638,325
DRILLING APPARATUS
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 29, 1947, Serial No. 794,281
10 Claims. (Cl. 255—39)

1. In a drilling apparatus, the combination comprising a reciprocable impact element, resilient means for urging said impact element in one direction, and motor driven mechanism for moving said impact element in the opposite direction against the action of said resilient means including relatively movable crank arms turnable about axes in the same straight line, a motor for turning one crank arm, means for operatively connecting said other crank arm to said impact element, said one arm upon turning



thereof engaging said other arm to turn the latter at the same angular rate therewith thereby to move said impact element in a direction to effect compression of said resilient means, and said other arm when said resilient means attains a predetermined maximum compression being released to turn freely away relative to said one arm to effect release of said resilient means to permit the latter to drive said impact element rapidly in the opposite direction to deliver a blow.

2,638,326
DRILLING APPARATUS
Ray Augustus Lehner, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application April 16, 1946, Serial No. 662,641
6 Claims. (Cl. 255—51)



1. In a drilling apparatus, the combination comprising a supporting base, a horizontal turntable on said base, a boomlike frame pivotally mounted on said turntable to swing in a vertical direction relative thereto and to turn horizontally with said turntable about the turntable axis, a rotatable support mounted at the outer end of said boomlike frame for rotation about the longitudinal axis of the latter, said rotatable support having a transverse bore arranged with its axis at right angles to the longitudinal axis of said boomlike frame in advance of the latter, a yokelike frame having a cylindrical portion journaled in said bore to turn relative to said rotatable support and a yokelike portion disposed laterally of said boomlike frame, said yokelike portion providing spaced yoke arms, and a drilling tool embodying rotating and feeding means and having an aligned rigid support, said tool-support swivelly mounted on said yoke arms of said lateral portion of said yokelike frame to rock relative thereto about an axis extending transversely

of said tool-support between the top and bottom of the tool, said yokelike portion straddling said tool-support with said yoke arms disposed at opposite sides of the tool, and said transverse axis disposed at right angles to the swivel axis of said yokelike frame and perpendicular to the longitudinal axis of said tool, said transverse axis intersecting said longitudinal tool axis.

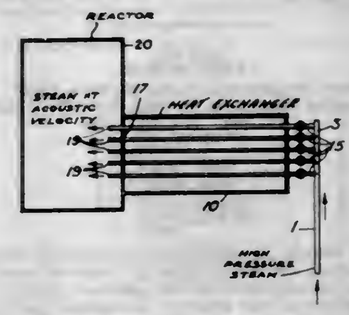
2,638,327
REAMER
John C. Baldwin, Bluefield, Va.
Application May 19, 1950, Serial No. 162,895
5 Claims. (Cl. 255—77)



1. A reamer comprising an elongated tubular barrel having longitudinally extending slits angularly spaced therearound and extending from one end of said barrel to a location intermediate the length of the latter to provide a plurality of contiguous tongues terminating at said one end of the barrel, a tang structure secured to the other end of said barrel, guide ribs disposed one on the side of each tongue disposed inwardly of said barrel, at least one cutting bit secured to each tongue at said one end of the tubular member, said cutting bits being disposed on the outer sides of said tongues and extending longitudinally of the latter, and an expander received in said tubular member and having a tapered head provided with grooves slidably receiving said guide ribs, said expander head being effective to expand the reamer by moving said tongues outwardly at said one end of the barrel when said expander is forced inwardly of the barrel.

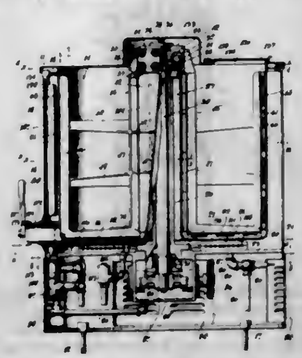
2,638,328
METHOD OF HEATING FLUIDS
Warren K. Lewis, Jr., East Orange, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 1, 1949, Serial No. 96,569
3 Claims. (Cl. 257—1)

1. The process of heating a gasiform fluid flowing through a path of relatively small cross-section defined by confining walls to a temperature in excess of that which can be obtained practically in said path, which comprises introducing said fluid at a temperature below the maximum safe temperature for said walls into said path at an absolute pressure at least double the pressure at the exit end of said path, applying heat to said fluid as it passes throughout said path, the length and cross-section of said path and the pressure and heat conditions being so controlled that said fluid attains high kinetic energy and at least a major part of its sonic velocity in said path without excessive drop in temperature, and passing said fluid directly from said path into a zone of very greatly increased



cross-section, as compared with that of said path so as to reduce its velocity substantially to zero and convert a substantial part of said kinetic energy into heat, said application of heat being at such a rate that said safe wall temperature will not be exceeded.

2,638,329
APPARATUS FOR TREATING CHOCOLATE OR THE LIKE
William G. Weygand, East Meadow, and Jack Swendsen, Lynbrook, N. Y., assignors to Werner Machinery Corporation, Long Island City, N. Y., a corporation of New York
Application June 5, 1947, Serial No. 752,586
3 Claims. (Cl. 259—108)



1. In apparatus of the character described, in combination, a vessel having a smooth interior surface comprising a cylindrical outer wall, a concentric cylindrical column and a bottom between them, agitator structure for the region between the column and the outer wall, said agitator structure including a frame having vertical members respectively adjacent the wall and column and a horizontal member adjacent the bottom, supplemental stirring members connecting said upright members, and scraper blades removably hinged at the edges of said upright members and lower member, for scraping the cylindrical wall, central column and bottom respectively, a shaft traversing the central column and means remov-

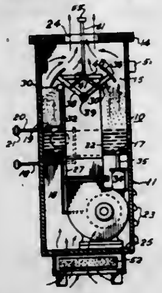
ably securing the inner one of said upright members to a portion of the shaft above the column, said blades and members including parts freely separable upon sliding the blades longitudinally relative to the members, for providing the aforesaid removably hinged attachment of the blades to the members.

2,638,330
CARBURETOR
Henri Morgenroth, Santa Barbara, Calif.
Application September 13, 1949, Serial No. 115,391
6 Claims. (Cl. 261—23)



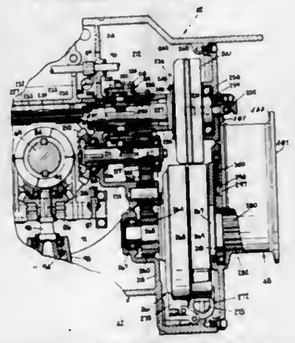
6. A charge forming device comprising means defining an air passage having a Venturi restriction, a control valve in the passage anterior to the venturi, a rich mixture carburetor having a carburetor passage and discharging a rich mixture into the air venturi, a plate valve movable transversely across the carburetor passage for controlling the same, said plate valve having a variant aperture providing a variable effective opening dependent upon its position relative to the carburetor passage, and a mechanical connection between the control valve and the plate valve for simultaneous movement.

2,638,331
HUMIDIFIER
Paul A. Herr, Lancaster, Pa.
Application July 31, 1950, Serial No. 176,855
3 Claims. (Cl. 261—29)



1. A humidifier comprising a casing having an upper outlet and a lower air inlet, a partition dividing said casing into upper and lower chambers, a blower in the lower chamber having a discharge duct extending upwardly through said partition under the outlet and spaced downwardly therefrom, said casing having walls spaced from the duct and providing a water reservoir in the upper chamber about the duct, a pump in the lower chamber having a supply pipe leading from the reservoir and a discharge pipe extending upwardly into the upper chamber and communicating with pipes extending horizontally across outer surfaces of upper portions of walls of the duct and carrying nozzles serving to spray water downwardly into space within the upper chamber above water therein, shutters in the upper chamber disposed at opposite sides of the duct and mounted for swinging movement towards and away from each other into and out of position above the upper end of the duct, and actuating means for said shutters serving to swing the shutters to adjusted positions and hold them in the adjusted positions.

2,638,332
FEEDING DRIVE MECHANISM FOR MINING MACHINES
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application April 6, 1945, Serial No. 586,979. Divided and this application June 12, 1946, Serial No. 676,200
8 Claims. (Cl. 262—30)

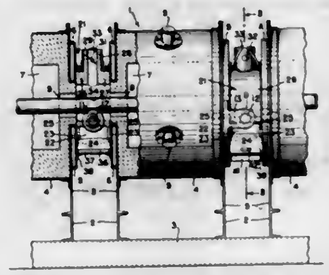


3. A mining machine including a motor, a pair of separate feed mechanisms, a gear train branch from said motor to each feed mechanism including a two-speed transmission and a hydraulic coupling both individual to each feed mechanism, the hydraulic coupling and transmission of each feed mechanism having a variable pressure relief control valve and a speed control valve, respectively, an operating shaft common to the relief control valve and the speed control valve of each feed mechanism and operable by rotation to control the former and by reciprocation to control the latter, and a pair of handle controlled mechanisms for rotating and reciprocating each of said operating shafts, there being a pair of said operating handles on opposite sides of said machine, each pair including handles for operating all of the relief control and speed control valves.

2,638,333
CONTINUOUS FURNACE
Frederic O. Hess, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application August 25, 1950, Serial No. 181,336
3 Claims. (Cl. 263—3)

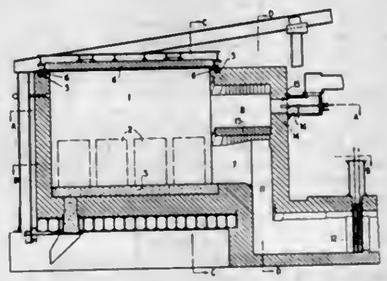
1. In a furnace system, the combination of a plurality of axially aligned furnace units each having a chamber and axially aligned entrance and exit openings, conveying means including a horizontally extending shaft having a portion thereof aligned with said openings extending between each pair of furnace units and operative to move work therethrough, and housing means between pairs of furnace units including a pair of side members, means to mount said members jointly on the ends of the units between which they extend with one of said members on each side of said openings and having a portion thereof below said shaft, a floor member extending between the lower ends of said side members to

close the space therebetween, and a U-shaped shield removably mounted between the ends of said furnace units adjacent to the upper ends of said side members, said shield extending around



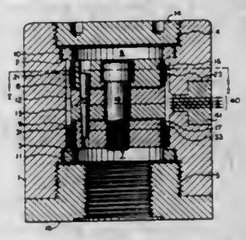
the upper portion of said openings and being provided at its ends with means through which said shaft may pass and with a vent opening in the upper portion thereof.

2,638,334
FURNACE FOR THE HEAT TREATMENT OF MATERIALS
John Frederick Robert Jones, Shotton, England
Application July 12, 1950, Serial No. 173,399
In Great Britain January 29, 1948
4 Claims. (Cl. 263—40)



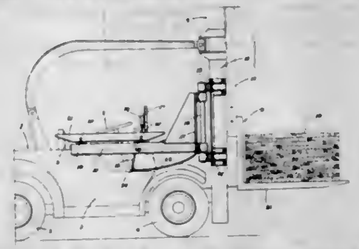
1. In a soaking pit furnace or the like for the heat treatment of ingots and other work pieces, in combination, a treatment chamber having a hearth, an exhaust chamber contiguous to said treatment chamber and having an open end opening directly into said treatment chamber along one side thereof, said open end extending upwardly from adjacent said hearth to a height generally as great normally as the height of the work-receiving portion of said treatment chamber, said open end further extending substantially across the full width of said side, a flue connected to the other end of said exhaust chamber, said open end having an area greater than the area of said flue, said exhaust chamber further decreasing in cross-sectional area in a direction toward said flue such that the velocity of the waste gases passing through said exhaust chamber is increased within said exhaust chamber, and means for combusting and reducing the velocity of the gases for heating said furnace substantially above said work-receiving portion.

2,638,335
BONDED WIRE STRAIN-GAUGE ACCELEROMETER
Erwin W. Kammer, Alexandria, Va., Irwin Vigness, Washington, D. C., and Sherwood G. Holt, Ithaca, N. Y.
Application March 1, 1950, Serial No. 147,115
12 Claims. (Cl. 264—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An accelerometer comprising a mass, a strainable metallic means supporting said mass, strain sensing means comprising a resistance wire bonded to said strainable means with an orientation parallel to the direction of stress produced on said strainable means by said mass, said strain sensing means adapted to be connected to means for measuring acceleration of said mass as a function of resistance variations of said strain sensing means.

2,638,336
SCALE FOR LIFT TRUCKS
Cecil L. Wetsel, Sacramento, Calif.
Application September 9, 1950, Serial No. 183,969
8 Claims. (Cl. 265—40)

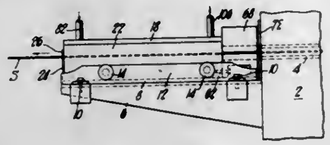


1. A scale for a load lifting truck, comprising a pair of longitudinal members arranged to be projected outwardly in spaced relation beneath the load, scale beams above the members to receive the load thereon, fluid cylinders between the members and scale beams responsive to the weight of the load thereon, a pressure gauge calibrated in terms of weight, a fluid pressure conduit system between the fluid cylinders and the gauge, and a shock-resistant mount for the gauge, said mount comprising another frame fixed on the truck, and tension springs supporting the gauge within the confines of the frame.

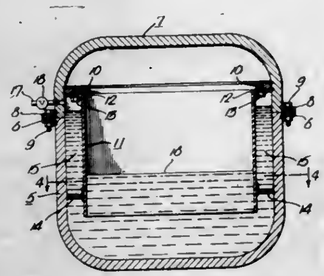
2,638,337
QUENCH BLOCK
Julius Harasty, Westfield, N. J.
Application March 9, 1951, Serial No. 214,777
23 Claims. (Cl. 266—3)

23. A quench block for continuously quenching steel strip comprising a bottom block, said

bottom block having a transverse manifold adjacent each end and a plurality of longitudinal spaced apart parallel passageways extending between said manifolds, guide means of hard wearing material positioned on top of said bottom block adjacent the entry end thereof, said guide means having a relatively thin portion slightly wider than the width of the strip being quenched and relatively thick portions on each side of the thin portion, a hard wearing strip of at least the same thickness as the thin portion of the guide means arranged on top of said bottom block adjacent the guide means, an upper hard wearing strip, the thickness of said thick portions of the guide means being less than the sum of the thicknesses of the upper and lower hard wearing strips and the steel strip being quenched therebetween, a top block resting on said upper hard wearing strip, said top block having a transverse manifold adjacent each end and a plurality of longitudinal spaced apart parallel passageways extending between said manifolds, and means for delivering a coolant to the manifolds at one end of said blocks.

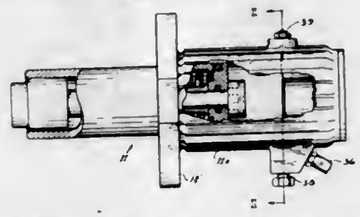


2,638,338
CORROSION INHIBITING VESSEL CONSTRUCTION
Leonard W. Williams, Birchrunville, Pa., assignor to Lukens Steel Company, Coatesville, Pa., a corporation of Pennsylvania
Application November 18, 1948, Serial No. 60,712
4 Claims. (Cl. 266—39)



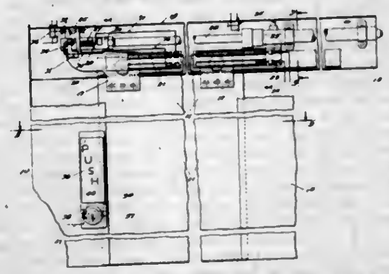
1. A high temperature vessel comprising a liquid containing body member; a lid for said body member, means for securing the lid to the body member in liquid and pressure-tight sealing relation thereto, an annular rigid liner depending from and secured to the interior of said lid, the outside of said liner being circular and of substantially smaller diameter than the inside of the body member, to provide a smooth annular concentric space between the liner and the body member, and a vent for the gas entrapped in the annular space between the liner and the body member.

2,638,339
FLUID BUFFING DEVICE
Morris P. Taylor, Palo Alto, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application February 9, 1951, Serial No. 210,197
1 Claim. (Cl. 267—1)



In a fluid buffing device, the combination which comprises an elongated housing forming a cylinder having an intermediate portion of a given diameter constituting a fluid reservoir, a closed end portion of a reduced diameter constituting a buffing chamber, and an open end portion, a buffing piston slidable within the said buffing chamber, the said piston having flow restricting orifices therein communicating with said buffing chamber on one side of the said piston with said fluid reservoir on the opposite side of the said piston, said buffing chamber and said reservoir being filled with hydraulic fluid, an actuating plunger adapted to be connected to a load and operable to reciprocate the said buffing piston in the said fluid filled chamber, a guide piston fast on said plunger and slidable in said open end portion, a floating piston reciprocably slidable on the plunger, an expansion spring acting between said floating piston and said housing operable substantially independently of temperature for imparting a substantially uniform fluid pressure to the fluid in the said reservoir, and resilient means acting between said floating piston and said guide piston tending to retract the buffer piston and to increase the quantity of fluid entrained within the said buffing chamber whenever the said load is removed from the said actuating plunger.

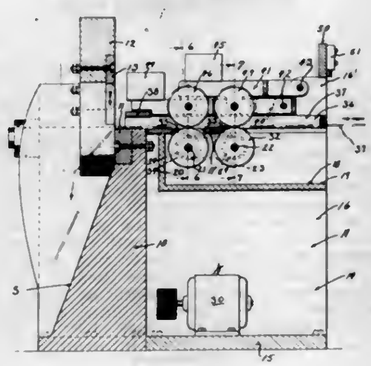
2,638,340
DOOR OPENING APPARATUS
Christian Allen Koenig, Brooklyn, N. Y., and Albert E. Welgele, Newark, N. J., assignors to National Pneumatic Company, New York, N. Y., a corporation of West Virginia
Application June 28, 1945, Serial No. 602,040
1 Claim. (Cl. 268—39)



In a door opening apparatus of the type described, in combination, a door mounted for

movement transversely of the door frame, a differential pneumatic engine for opening and closing said door, a magnet valve of the exhaust type for governing the operation of said engine, electrical control means for said magnet valve, said electrical control means comprising a relay, means comprising a lock switch for conditioning said control primary means for operation, means for energizing said relay and said magnet valve to thereby cause movement of the door to open position, means for locking said relay in response to energization thereof by said primary means, secondary energizing means adjacent said door to reenergize and relock said relay and reenergize said magnet valve to thereby cause movement of the door to door open position, and means for preventing control of the door by said secondary means until after operation of said primary means.

2,638,341
FEED ATTACHMENT FOR ALLIGATOR SHEARS
Barney Silver, Racine, Wis.
Application February 2, 1951, Serial No. 209,106
3 Claims. (Cl. 271—2.3)



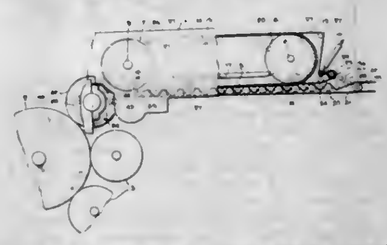
1. A machine for straightening and feeding elongated strips of material comprising a supporting frame, a feed table secured to said frame, said table having spaced parallel longitudinally extending guide channels for the strips, and each of said channels including spaced parallel guide plates extending over and forwardly of the table, front and rear power driven toothed wheels below said table arranged in each channel between the guide rails and having their peripheries projecting slightly above the upper surface of the table, a lower pivoted arm above said table carried by the supporting frame for each channel, an upper pivoted arm carried by the frame for each channel, weights for each arm for holding the arms down toward the table, and an upper rotatable idle toothed wheel carried by each arm, one of said upper wheels being arranged in front of the other, said upper wheels carried by said arms being directly above and in alignment with the front and rear power driven wheels, whereby strips of material fed into the channels will be grasped by the respective upper and power driven wheels at two spaced points.

2,638,342
SHEET FEEDING AND REGISTERING MECHANISM
Hans J. Luehrs, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application April 4, 1951, Serial No. 219,198
26 Claims. (Cl. 271—48)



1. In a sheet feeding and registering mechanism, a sheet receiving element provided with one or more sets of grippers, an endless carrier provided with spaced sets of grippers operable to take the sheets and feed them to the sheet receiving element, means for temporarily releasing the sheets from the endless carrier grippers, means for front and side registering the temporarily released sheets before they are again taken by the endless carrier grippers, and means for thereafter transferring the registered sheets from the endless carrier grippers to the sheet receiving element grippers.

2,638,343
SHEET FEEDING AND REGISTERING MECHANISM
Hans J. Luehrs, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application January 24, 1952, Serial No. 267,960
30 Claims. (Cl. 271—48)



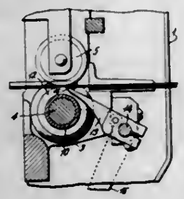
1. In a sheet feeding and registering mechanism, a sheet receiving element, a sheet fed endless carrier provided with grippers operable to take and forward the sheets, means for temporarily releasing the sheets from the said grippers, front and side sheet register stops carried by the endless carrier, sheet supporting and advancing means for evening the temporarily released sheets and cooperating with said register stops for front and side registering the sheets, and means for transferring the evened and registered sheets from the endless carrier grippers to said sheet receiving element.

2,638,344
PAPER MONEY COUNTING MACHINE
Thomas E. Hayes, Washington, D. C.
Application July 31, 1950, Serial No. 176,907
4 Claims. (Cl. 271—57)

1. In a paper money counting machine having a plurality of bill-receiving compartments and a pair of bill-feeding rollers at the entrance

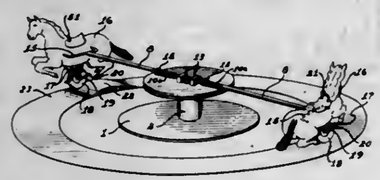
member.

to each compartment, a shaft extending across all of said roller pairs, a plurality of bill-stops equal in number to the number of roller pairs attached to said shaft, each of said bill-stops being positioned medially of a roller pair, and means operable when a bill enters between the



rollers of any of said roller pairs to rock said shaft to raise all of said bill-stops to a position for yieldingly engaging the leading edge of a bill which may overlap the trailing edge of a preceding bill engaged between the rollers of a roller pair.

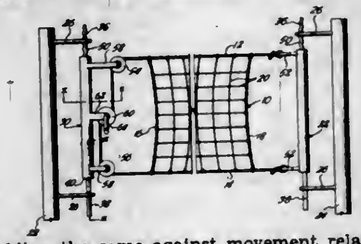
2,638,345
OCCUPANT PROPELLED ROUNDABOUT
Benjamin E. Norvell, Oak Creek, Ariz.
Application August 16, 1947, Serial No. 768,998
6 Claims. (Cl. 272—33)



1. A roundabout comprising central supporting means adapted for supporting an assembly for rotation, said assembly comprising a plurality of radially extending members having their inner ends pivotally connected to a central rotatable support, each radially extending member having a propelling member attached to a carrying unit adjacent its outer end, the propelling member having means for being set in motion by the physical effort of the occupant of the carrying unit, each carrying unit suspended over a track because of pressure from compression spring means slidably mounted adjacent the inner end of each radially extending member between the radially extending member and central rotatable support of said assembly so that the degree of contact with said track of said carrying units when occupied may be increased when said compression spring means is moved inwardly and decreased when moved outwardly.

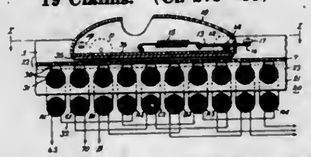
2,638,346
GAME NET END MEMBER
Joie L. Stapleton, Lawrence, Kans.
Application May 19, 1950, Serial No. 162,954
2 Claims. (Cl. 273—29)

1. As an article of manufacture, an end member for game nets comprising an elongated tube having means thereon adapted to receive one end of a game net; and a bracket-receiving pin extending from each end of said tube, one pin projecting into the tube and being biased outwardly therefrom, the other pin having bracket-engaging corrugations thereon for releasably



holding the same against movement relative to its bracket.

2,638,347
LINEAR MOTOR RACING GAME
Ernesto Maggi, Bergamo, Italy
Application April 14, 1948, Serial No. 20,921
In Italy May 14, 1947
19 Claims. (Cl. 273—86)



1. In a game-device, a movable element which is to be moved, means for normally moving said movable element in a predetermined manner, accelerating means for temporarily causing said movable element to move at an accelerated speed, decelerating means for causing said movable element to move at a reduced speed, an on-or-off two-position switching means under the substantially instantaneous control of an operator, chance-means for causing the on-condition of said switching-means to actuate either the accelerating means or the decelerating means, and timing-means for limiting the time to any one operating-period of the accelerating means to a small part of the total time during which said movable element is to be moved.

2,638,348
PUPPET GOLF BALL PROJECTOR
Herbert Arenson and John F. Witherspoon, Kansas City, Mo., assignors, by mesne assignments, to Childlore Company, Kansas City, Mo., a corporation of Missouri
Application October 11, 1951, Serial No. 250,846
1 Claim. (Cl. 273—87)

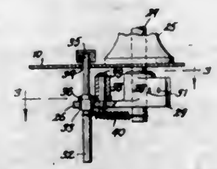
A device of the character described comprising, a puppet figurine having a rigid body with a depending portion simulating legs and feet, the bottom surface of which is adapted to be placed on a flat surface, the top of the body being on a plane at an acute angle to said bottom surface, a rigid member integral with the body and extending rearwardly from the upper portion thereof substantially parallel with the plane of the top of the body, a handgrip on the rearmost portion of said rigid member, said body having a cylindrical recess in the top thereof, said body and rigid member having an open top groove substantially longitudinally thereof and communicating with the recess in the body, said rigid member having an elongated slot opening at the bottom thereof and communicating with said groove, a cover closing the open top of the groove,

a spindle fixed in the body and projecting upwardly at the top of the body substantially axially of the cylindrical recess, a head fixed on the spindle above the body and spaced therefrom, a swinging member simulating shoulders of the puppet rotatably mounted on the spindle between the head and body, a radially extending portion simulating arms integral with the shoulder members, a golf club-like member removably mounted adjacent the end of the radially extending portion for movement therewith, said golf club-like member extending radially, a pinion fixed on the shoulder simulating member coaxial with the spindle and depending from said



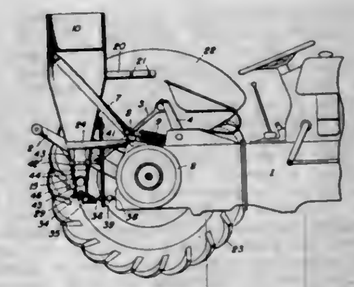
shoulder simulating member into the cylindrical recess in the body, a rack reciprocable in the longitudinal groove and having operating engagement with the pinion, means fixed to the rack and extending from the slot and actuatable by the finger of the operator's hand grasping the handgrip for moving the rack and effecting rotary movement of the shoulder simulating portion and golf club-like member to swing same to strike a ball or the like, resilient means on the body and acting on the actuating member to urge return movement of the rack and swinging member to their original position, and means limiting movement of the actuating member, rack and swinging member.

2,638,349
TONE ARM INDEXING DEVICE
Erich Schweitzer, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application June 13, 1949, Serial No. 98,672
3 Claims. (Cl. 274—15)



1. In a record changer having a turntable adapted to support records of different sizes, a vertical tone arm shaft alongside said turntable, a tone arm having a stylus and mounted on said tone arm shaft to swing horizontally therewith, and a positioning mechanism for moving said tone arm horizontally to position said tone arm at the start of each record play, the combination therewith of a manual adjustment for indexing said stylus to a position above the starting groove of either of two different sized records on said turntable in response to the movement of said positioning mechanism, comprising an actuating arm fixed to said tone arm shaft to swing horizontally therewith, an adjusting arm pivoted on said actuating arm to swing about a vertical axis remote from the axis of said tone arm shaft, a vertical indexing pin mounted on the free end of said adjusting arm and arranged in the path of said positioning mechanism to be moved thereby about the axis of said tone arm shaft, a pair of stops on said actuating arm limiting the transverse movement of said indexing pin relative to said adjusting arm and arranged to position said indexing pin at two different positions on said actuating arm corresponding to the two different positions of the starting grooves of said two different sized records and means restraining said indexing pin against one or the other of said stops comprising a spring mounted on said actuating arm on the side of the pivot axis of said adjusting arm opposite said adjusting arm and connected with said adjusting arm to be carried beyond dead center in the movement of said indexing pin from one of said stops to the other.

2,638,350
TRACTOR MOUNTED SEEDER AND FERTILIZER
Grover B. Lyerly, Jonesboro, Ill.
Application August 2, 1948, Serial No. 41,945
2 Claims. (Cl. 275—8)



1. Seed and fertilizer broadcasting apparatus for mounting at the rear of a tractor to be driven by the rear power take-off of the tractor comprising a hopper having a vertical central bottom recess therein of sufficient width and depth to straddle a vertically movable rear power lift control bar on the tractor without impeding free movement of said bar, a pair of horizontal upper hopper mounting bars fixed to opposite sides of the hopper and adapted to be fixed to opposite sides of the tractor, a pair of lower horizontal hopper mounting bars fixed to the bottom of the hopper at opposite sides of the recess and adapted to be attached to the tractor, said pairs of bars supporting the hopper at the rear of the tractor with said recess adapted to straddle said control bar in the plane of vertical movement thereof, a Y-shaped dropper boot depending from the bottom of the hopper from opposite sides of said recess and into which said hopper discharges upon both sides of the recess, adjustable discharge control valves in said hopper, a rotary

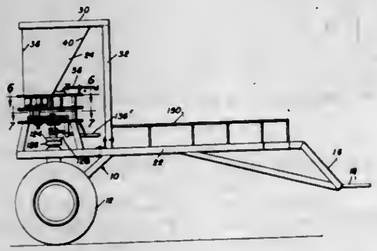
broadcasting member beneath the bottom of the boot, a bracket mounting for said member attached to said boot, a drive for said member including a driven shaft journaled on said bracket and adapted to be coupled to said power take-off, a pair of agitator reels over the upper ends of said boot having shafts journaled in the hopper and extending forwardly out of the same, and a sprocket and chain drive between said driven shaft and the extending ends of the shafts of said reels.

2,638,351

SEED BROADCASTING IMPLEMENT

Leroy F. Stornetta and James R. Stornetta, Brentwood, and Joseph M. Armstrong, Byron, Calif.

Application February 26, 1951, Serial No. 212,722
1 Claim. (Cl. 275—8)



A material distributing machine comprising a bed, supporting wheels mounted beneath said bed, a frame structure on the bed, a hopper on said frame structure spaced above the bed, vertically spaced upper, lower and intermediate horizontal plates mounted in elevated position on the bed beneath the hopper, said upper plate constituting the bottom of said hopper and having a pair of discharge openings therein communicating therewith, a pair of vertical shafts journalled on the plates and projecting into the hopper, agitators on the upper end portions of said shafts operable in the hopper, centrifugal scatterers fixed on the shafts between the upper and intermediate plates, transversely disposed baffle plate for the material vertically mounted between said upper and intermediate plates forwardly of said scatterers and including a substantially V-shaped intermediate portion projecting between said scatterers, slide valves on said upper plate controlling the discharge openings, a drive shaft journalled in the lower plate, chain and sprocket means between the lower and intermediate plates operatively connecting said drive shaft to the first named shafts, and clutch controlled means operatively connecting the supporting wheels to the drive shaft.

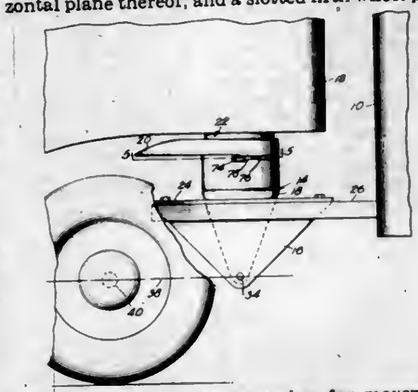
2,638,352

FIFTH WHEEL COUPLING

Forrest A. Beachler, Bicknell, Ind.

Application September 7, 1950, Serial No. 183,513
6 Claims. (Cl. 280—33.05)

1. In combination with a tractor having a rear axle and a frame supported thereby, a trailer coupling comprising a saddle secured to said frame, a member pivotally connected to said saddle on an axis located forwardly of and substantially parallel to said axle and in substantially the horizontal plane thereof, and a slotted fifth wheel pivotally connected to said member for movement about a vertical axis.



2,638,353

DRAFT AND BUFFER RIGGING FOR VEHICLES

Vernon S. Danielson, Dolton, and William D. Wallace, Park Forest, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application July 11, 1951, Serial No. 236,212
9 Claims. (Cl. 280—33.9)



1. In a draft rigging for vehicles, the combination with a supporting frame pivotally connected to the vehicle for swinging movement in a vertical plane; of a carrier swivelled on said frame for rotation about a vertical axis; a friction shock absorber within said carrier; inner and outer abutments on said carrier; followers at opposite ends of said friction shock absorber; a drawbar connected to the inner follower to actuate the same in draft, said drawbar being rotatable about its longitudinal axis with respect to said followers; and a coupler fixed to the outer end of the drawbar and engageable with the outer follower to actuate the same in buff.

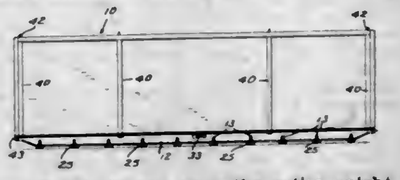
2,638,354

SUPPORT FOR CONTAINERS

Harold J. Larson and George B. Devereaux, Brooklyn, N. Y.

Application August 10, 1951, Serial No. 241,364
5 Claims. (Cl. 280—44)

1. A container having a flat bottom wall, a plurality of rollers extending substantially across said container beneath said wall, bearing means at the ends of said rollers, side rails disposed below and along the sides of said bottom wall, said side rails having a depth less than the diameter of said rollers, whereby they are free from the supporting surface at all times, said end roller bearing means being mounted in said side rails, and means shifting said bearing means vertically in said side rails between an upper position wherein said flat bottom wall rests on the surfaces of said rollers and said rollers rest on said supporting surface to carry the entire weight of said container, and a lower position wherein said rollers are spaced below the bottom wall of said container whereby the rollers are free to roll on said supporting surface.
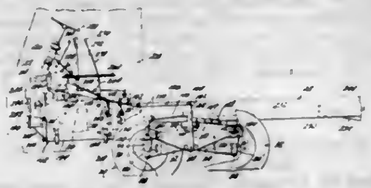


2,638,355

STEERING ASSEMBLY FOR TANDEM WHEEL VEHICLES

Daniel Herbert Spangler, Hamburg, Pa.

Application November 4, 1948, Serial No. 58,178
12 Claims. (Cl. 280—81.5)



1. In a vehicle, a frame including longitudinal elements, a pair of beams extending parallel to the center line of the vehicle with the respective beams adjacent the elements of the frame, means to support each beam midway of its length for pivotal movement with respect to said frame about a line extending transversely of the vehicle, a pair of axle structures pivotally connected to said beams, one at each end of the beams, a pair of wheels dirigibly supported by stub axles on each axle structure of said pair, a vertically extending lever pivoted on a horizontal axis midway between the axle structures, links extending in opposite directions from the lever, a steering thrust arm carried by the stub axle of each wheel, the respective links and thrust arms being pivotally connected, and a steering control operatively connected to said lever.

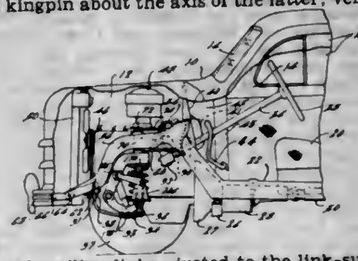
2,638,356

AUTOMOTIVE SUSPENSION SYSTEM

John P. Butterfield, Grosse Pointe Park, and Victor Hughes, Pleasant Ridge, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application August 23, 1951, Serial No. 243,334
9 Claims. (Cl. 280—95)

9. In an automotive vehicle having an engine compartment at the forward part of the vehicle and a propulsion engine mounted therein, a pair of spaced apart stationary members disposed at the respective sides of the engine compartment and having relatively horizontal portions disposed generally adjacent the plane of the top of the vehicle engine and each being provided with vertically spaced kingpin bearings which are axially aligned along a generally up and down axis which forms a slight angle to the vertical, a steerable wheel suspension assembly for each said stationary member comprising a kingpin disposed in the kingpin bearings of the stationary member, said kingpin having top and bottom ends protruding from the horizontal portion to the stationary member and being journalled in said bearings such that the axis of said kingpin is coincident with said generally up and down bearing axis; an arm structure disposed substantially in a vertical plane and secured to the bottom end of the kingpin, said arm structure having a horizontal portion and a forwardly and downwardly extending link-supporting portion forming an angle with respect to the horizontal portion and disposed underneath the horizontal portion of the stationary member and being turnable with the kingpin about the axis of the latter; vertically spaced trailing links pivoted to the link-supporting portion of the arm structure so as to trail from and swing substantially in the said vertical plane of the same, an angled spring seat structure having means including a wheel-connected member providing articulated connections between portions of the spring seat structure and the trailing end of each of the respective trailing links, coil spring means connected between and engaging the angled spring seat structure and the horizontal portion of the arm structure, and rubber bumper means disposed within the coil spring means and connected to one of the two just-named structures so as to be engageable with means on the other said structure during extreme movement of approach of the said two structures relative to one another.

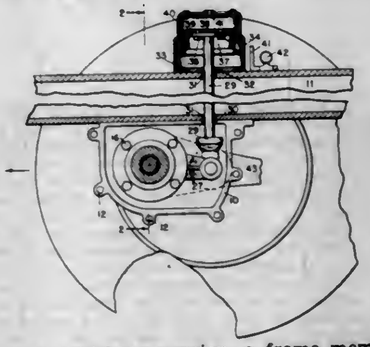


2,638,357

COMPENSATING WHEEL MOUNTING

Glenn L. Larison, La Grande, Oreg., assignor to Larison Compensating Axle Corporation, La Grande, Oreg., a corporation of Oregon

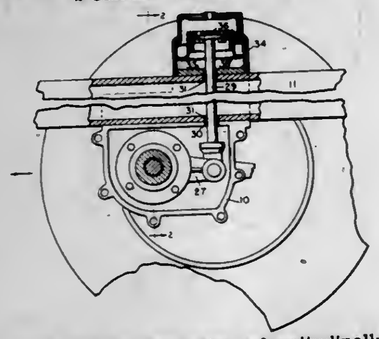
Application September 17, 1951, Serial No. 246,997
3 Claims. (Cl. 280—104.5)



1. In a vehicle suspension, a frame member, a housing attached to and extending below said

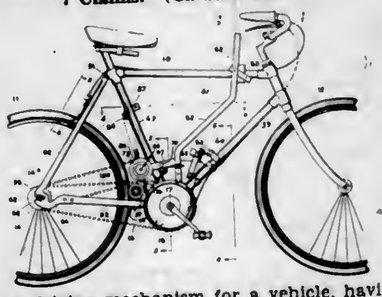
frame member, a differential mechanism carried in said housing for rotational movement as an entire unit on a substantially horizontal axis, a pair of wheel-spindle arms mounted on opposite sides of said housing respectively on the same horizontal axis as said differential mechanism and connected to said differential mechanism, said differential mechanism so arranged that upward movement of one wheel-spindle arm will cause relative opposite movement of the other wheel-spindle arm and upward movement of both wheel-spindle arms will cause rotational movement of said differential mechanism as an entire unit, enclosed means controlling the rotation of said differential mechanism as an entire unit, said means including a thrust rod, the lower portion of said thrust rod located within said housing, said rod extending upwardly from said housing and through said frame member and movable up and down through said frame member, means connecting the bottom end of said thrust rod with said differential mechanism and so arranged that upward movement of both wheel-spindle arms and consequent rotation of said differential mechanism as an entire unit will cause upward movement of said thrust rod, and adjustable air cushioning means mounted on said frame member above said housing for controlling the upward movement of said thrust rod and thereby cushioning the shocks transmitted to said frame member and vehicle suspension through said wheel-spindle arms and differential mechanism.

2,638,358
EQUALIZING AND CUSHIONING WHEEL MOUNTING
Glenn L. Larison, La Grande, Oreg., assignor to Larison Compensating Axle Corporation, La Grande, Oreg., a corporation of Oregon
Application September 17, 1951, Serial No. 246,998
2 Claims. (Cl. 280—104.5)



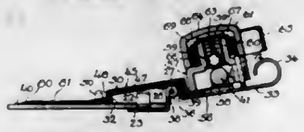
1. In a vehicle suspension a longitudinally-extending frame member located on one side of the vehicle, a plurality of pairs of housing plates secured to said frame member at a spaced distance along said frame member, the plates of each pair secured to opposite sides of said frame member in transverse alignment with each other, a differential mechanism carried in each pair of housing plates for rotational movement as an entire unit on a substantially horizontal axis extending transversely with respect to said frame member, a pair of wheel-spindle arms mounted on the outside of each pair of said housing plates respectively on the same horizontal axis as said differential mechanism and connected to said differential mechanism, said differential mechanism so arranged that upward movement of one of the wheel-spindle arms of the pair will cause relative opposite movement of the other wheel-spindle arm and upward movement of both wheel-spindle arms of the pair will cause rotational movement of said differential mechanism as an entire unit, said wheel-spindle arms extending rearwardly with respect to the normal direction of travel of the vehicle, a thrust rod extending substantially vertically upwardly through said frame member at each pair of said housing plates, the bottom end of said thrust rod located between the pair of housing plates and positioned slightly to the rear of the central portion of the corresponding differential mechanism with respect to the normal direction of travel of the vehicle, means connecting the bottom end of said thrust rod with said differential mechanism, whereby rotation of said differential mechanism as an entire unit by upward movement of the two wheel-spindle arms will cause an upward thrust to be exerted on said thrust rod, an air chamber housing secured on said frame member above each pair of said housing plates, said thrust rod terminating in said air chamber housing, a compressed air chamber in said air chamber housing, air compression means actuated by said thrust rod compressing the air in said air chamber and cushioning the upward thrust of said thrust rod, an air conduit interconnecting said air chambers for equalizing the air pressure therein, and means for adjusting the air pressure in said chambers and conduit.

2,638,359
MANUALLY ENERGIZED AND SPRING OPERATED BICYCLE
James H. Crumble, Brooklyn, N. Y., assignor to Carva Ventures, Incorporated, New York, N. Y., a corporation of New York
Application July 26, 1950, Serial No. 175,948
7 Claims. (Cl. 280—215)



1. A driving mechanism for a vehicle, having a frame and supporting wheels, with a pedal shaft rotatably supported by the frame, said shaft having pedalled cranks attached to the ends thereof, comprising a spring drum mounted on said pedal shaft, a coiled torsion spring mounted within said drum, one end of said spring being connected to the pedal shaft, with the opposite end attached to the drum, a chain drive sprocket attached to the drum, a wheel driving sprocket attached to one wheel of said vehicle, a chain operatively connecting said main drive and wheel driving sprockets, a flexible cable connecting said pedal cranks, means guiding said cable, said cable co-ordinating the movement of the cranks, and limiting the angular movement thereof, braking means mounted on said spring drum, means manually controlling said braking means, an auxiliary sprocket attached to said wheel, concentric with the wheel sprocket, an auxiliary drive sprocket mounted in substantial alignment with the wheel sprocket, a roller chain linking said auxiliary wheel sprocket and auxiliary drive sprocket, a pivoted lever having an auxiliary sprocket support shaft trunnioned at the free end thereof, rotatably supporting the auxiliary drive sprocket, a chain drive sprocket mounted on the opposite end of said auxiliary sprocket shaft, rotating with said auxiliary drive sprocket, manually operated cable controlled means lowering the pivoted lever to move said chain drive sprocket into engagement with the vehicle drive chain, the rotation of the pedal shaft energizing the spring, while the drum is braked, the free movement of the driving wheel independently energizing the torsion spring by means of the auxiliary wheel sprocket, the auxiliary drive sprocket connected thereto by an auxiliary chain, and the chain drive sprocket mounted on the auxiliary shaft, the release of the energy in the torsion spring, by releasing the braking means, driving the vehicle wheel, by means of the main drive sprocket and wheel driving sprocket driven thereby.

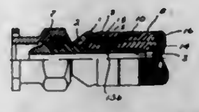
2,638,360
PAYROLL BOARD
Lois K. Straus, Great Neck, N. Y., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application November 29, 1950, Serial No. 198,155
4 Claims. (Cl. 282—29)



1. In a writing board, a straight edge member hinged to one edge of said board and extending in clamping position thereover, a secondary clamping member slidably mounted above and along said straight edge member, said straight edge member having a clamping portion overhanging the inner edge of said straight edge member and including an upright shoulder and a terminal clamping flange disposed at a substantially right angle to said shoulder, a pair of upright positioning pins fixed on said terminal flange in horizontally spaced relation to said upright shoulder, and a retaining lip fixed on said shoulder disposed between said positioning pins and spaced above said clamping flange for detachably retaining the edge of a paper sheet by flexing of said sheet between said lip and flange when the sheet is positioned on said pins and resting on the upper face of said flange, said retaining lip having an abrupt under face generally parallel with the upper face of the clamping flange and an upwardly inclined upper surface merging into the upright shoulder of said straight edge member.

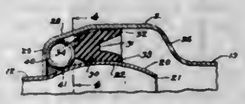
2,638,361
FLEXIBLE HOSE COUPLING
Walter Arthur Melsom, Wembley, England, assignor to Bowden (Engineers) Limited, London, England
Application January 17, 1950, Serial No. 138,968
In Great Britain January 27, 1949
5 Claims. (Cl. 285—84)

1. A flexible hose coupling component comprising a flexible hose with inner and outer tubular layers of resilient material and a tubular layer of flexible reinforcing material embedded between them, a sleeve member and an insert member held to the sleeve member against axial movement relative thereto out of the hose and a separate ring member, the said layer of reinforcing material at its end portion being bare of both outer and inner layers of resilient material, said inner layer having a portion projecting axially beyond the outer layer, said end portion of the reinforcing layer being bent back around the ring



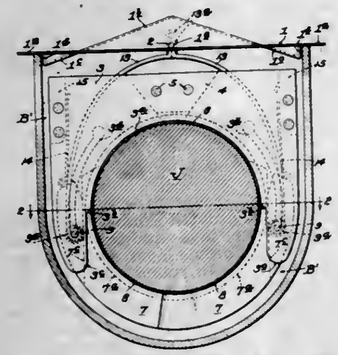
member which is situated around the projecting portion of the inner layer and the corresponding portion of the reinforcing layer, and in which said sleeve member situate round the ring member has been contracted whereby the end portion of the reinforcing layer is gripped between the sleeve and ring members and said ring member has been contracted around the projecting portion of the inner layer and the corresponding portion of the reinforcing layer to form a sealing zone thereunder.

2,638,362
COUPLING
Roger M. Sherman, Los Gatos, Alexander S. Mulligardt, Altadena, and Cloyd E. Gray, Palo Alto, Calif., assignors to W. R. Ames Company, San Francisco, Calif., a corporation of California
Application October 7, 1949, Serial No. 120,056
4 Claims. (Cl. 285—91)



1. A readily separable, positive interlocking pressure actuated pipe coupling comprising telescopically arranged bell and spigot portions; the spigot portion having an annular enlargement providing a generally spherical surface facing the free end of the bell portion, the bell portion having an interior compression wall sloping toward its free end and toward the axis of the portions and terminating in an inturned flange at the free end thereof, and having an internal diameter greater than the external diameter of said enlargement; a deformable resilient locking element within said bell portion having a plurality of radially extending circumferentially spaced substantially radially rigid narrow locking portions resiliently connected into an annulus in which each such narrow portion is deflectable out of its locking position upon relative rotation of said bell and spigot portions about their longitudinal axis, and which locking element when in locking position against said inturned flange has an effective inside locking diameter less than the outside diameter of said annular enlargement; and an annular pressure responsive gasket having rearwardly extending sealing lips, slidable within the bell portion rearwardly of said locking element and engageable with said spigot portion and initially operative upon pressure being applied tending to separate the portions to move said locking element along said wall to said flange and compress said locking element into operative interlocking engagement with said enlargement and said flange.

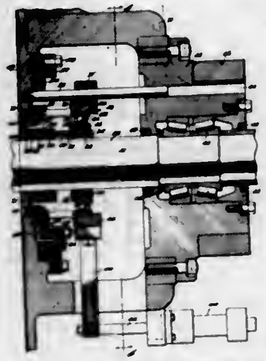
2,638,363
SNAP-ON DUSTGUARD
Donald D. Bryant, Huntington, W. Va.
Application December 26, 1950, Serial No. 202,650
5 Claims. (Cl. 286—6)



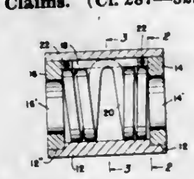
1. A snap-on dustguard seal for a journal box or the like, having a cavity pocket thereacross provided with a bore for an axle journal, the top of said pocket being open; a removable closure for the said pocket; a rack within the pocket including spaced plates extending transversely of said journal and having opposed semi-circular recesses in their lower edges of slightly larger radius than the journal and receiving the upper half of the journal; a packing between the plate and journal contacting the upper half of said journal; said rack having upwardly extending arcuate slots therein at opposite sides of the journal; arcuate sector shoes disposed between the plates having hinge pins slidably engaging the slots and adapted in lowered position to close around the lower half of the journal; packing carried by the shoes adapted in lowered position of the shoes to contact the lower half of the journal; said shoes when raised being withdrawn within the said rack to clear the said journal; and means yieldably connecting the closure and the shoe pins outside of the arcuate path of said pins, whereby as the closure is raised the shoes will be withdrawn, and whereby as the closure is lowered the shoes will be lowered.

2,638,364
STUFFING BOX FOR DOUGH MIXERS
Clarence R. Rechtin, Cincinnati, Ohio, assignor to The J. H. Day Company, Inc., Cincinnati, Ohio, a corporation
Application September 29, 1950, Serial No. 187,576
7 Claims. (Cl. 286—11.15)

2. A stuffing box assembly for sealing the opening in an end wall of a dough mixer through which an agitator shaft extends, said stuffing box assembly comprising a stuffing box slidably disposed on said shaft exteriorally of and adjacent to said tank end wall, a seat provided about the periphery of said wall opening, the inner end of said stuffing box being adapted to be brought into sealing engagement with said seat, power means for moving said stuffing box along said shaft into and out of a position in engagement with said seat, means for locking said stuffing box in a seated position, said means including wedge segments secured to said stuffing box, a ring rotatably mounted upon said tank end wall, members rigidly mounted upon said ring for engaging said wedge segments, said members being effective to secure the stuffing box in the seated position when the ring is rotated in one direction, said members being disengaged from said wedge segments when said ring is rotated in a different direction thereby permitting said stuffing box to be moved along said shaft to a point remote from the end wall of the mixer to facilitate the cleaning thereof.



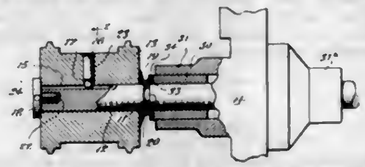
2,638,365
COUPLING
John A. Jones, Baltimore, Md.
Application August 4, 1949, Serial No. 108,599
2 Claims. (Cl. 287—52.09)



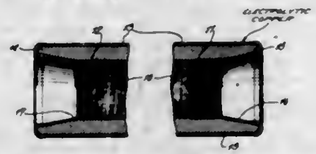
1. A shaft coupling of the class described comprising a continuous housing unit having an opening extending through the said housing, the outer end portions of which are of cylindrical form for slidably receiving a cylindrical shaft and a single internal recess formed in the housing between the cylindrical end portions, a single coiled helical gripping element carried within the recess and extending between the outer end portions having its normal inner diameter slightly larger than the cylindrical openings in the end portions, the said gripping element extending in opposite directions from a point adjacent its center, means for preventing the movement of the central portion of the gripping element against movement in the direction of the winding of the helix and means carried by the said housing adjacent the ends of the recess for operating the gripping element in the direction of the helix beyond its normal position for gripping the said shaft.

2,638,366
SPROCKET FASTENING MEANS
Henry F. Heidegger, Glen Ridge, N. J., assignor to International Projector Corporation, Bloomfield, N. J., a corporation of Delaware
Application February 25, 1949, Serial No. 78,277
3 Claims. (Cl. 287—53)

1. In a means to releasably connect an element to a continuously rotatable shaft, for rotation with the shaft, the combination with a rotary shaft having a key-way; and an element having an axial bore to accommodate the shaft and a radial opening leading from the periphery of said element to its bore; of a pre-set key having a driving fit in the radial opening, the inner end of the key protruding part-way into the key-way and being reduced to provide a chamber between the reduced inner end of the key and the wall of the radial opening to accommodate burrs, said reduced inner end having a sliding engagement with the key-way; a stop member to limit movement of the element longitudinally of the shaft in one direction; and a resilient means contacted by the element in its movement along the shaft in the opposite direction.



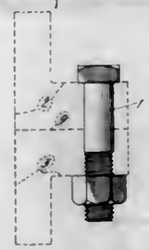
2,638,367
CASE HARDENED CABLE CONNECTOR AND METHOD
Martin D. Bergan, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application July 5, 1947, Serial No. 759,241
6 Claims. (Cl. 287—75)



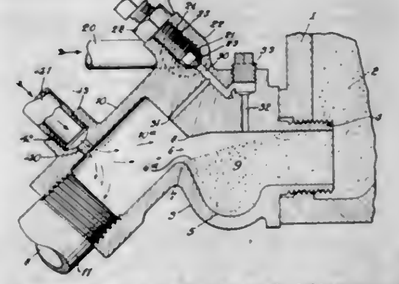
6. A tubular article for use as an electric connector in those situations where the article is to be deformed by squeeze pressure applied externally thereof and acting transversely therethrough to crimp the article to a core inserted in its bore, comprising primarily a one-piece sleeve whose major portion is of soft malleable metal and whose bore is fashioned to receive the core therein, at least a portion of the length of the bore wall provided with inwardly extending projections and said length with its projections being case-hardened and which case-hardened bore wall is integrally surrounded by the soft metal of the sleeve, said case-hardened bore surface being frangible and capable of disintegrating to form separate hard keying particles of the same material as the sleeve and capable of penetrating into the soft metal of the sleeve and into the core for automatically securing the sleeve to the core when the sleeve is subjected to the squeeze pressure operative to crimp the sleeve onto the core.

2,638,368
FRANGIBLE CONNECTION
Edwin A. Weinberg, Troy, N. Y., assignor to The Ludlow Valve Manufacturing Co., Inc., Troy, N. Y., a corporation of New York
Application January 17, 1946, Serial No. 641,684
5 Claims. (Cl. 287—129)

1. A frangible connection comprising a pair of plane faced flanges disposed in face-to-face relation, and a bolt extending through said flanges and securing the same together; said bolt being an integral structure of the same material and of uniform cross-sectional area throughout its shank formed of heat hardenable metal and being substantially harder and more brittle throughout the zones thereof immediately adjacent the faces of said flanges than in the zones adjacent the ends of said bolt; whereby said bolt will break in a zone adjacent the faces of said flanges when said connection is subjected to severe shock tending to shear said bolt.



2,638,369
SAND TRAP CLEANOUT
Frank E. Saari, Chicago, and Grant V. W. Roth, Evanston, Ill., assignors to Monarch Equipment Co., Chicago, Ill., a corporation of Illinois
Application November 18, 1949, Serial No. 128,152
2 Claims. (Cl. 291—11)

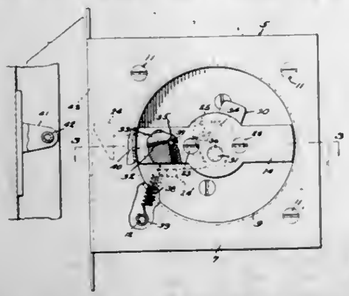


1. In combination with a sand delivery conduit, a clean-out assembly including a normally open connection between a supply of sand and the said sand delivery conduit, said connection comprising a tubular chamber having, intermediate its ends, a compressed air supply duct with its delivery axis substantially perpendicular to the longitudinal axis of said tubular chamber, said air supply duct having a restricted delivery opening of a cross-sectional area substantially less than that of the said tubular chamber.

2,638,370
COMBINED CLOSURE LATCH AND LOCK
James Frank Price, Miami, Fla.
Application March 27, 1950, Serial No. 152,205
1 Claim. (Cl. 292—106)

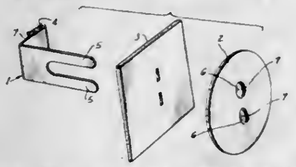
In a combined latch and lock for sliding closures, a housing adapted to be secured to a sliding closure, said housing having depressions in the outer sides thereof, pivoted latch handles mounted in the depressions, a latch handle connecting member, said latch handle connecting

member having grooves formed in the longitudinal side edges thereof, posts carried by one of said handles fitted in the grooves, means for securing the posts to the opposite handle, a latch arm secured to the latch handle connecting member, said latch arm adapted to engage a keeper carried by the closure frame, a sliding bolt mount-



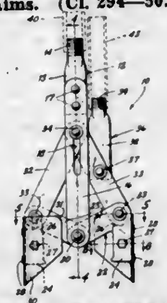
ed within one of the handles, a pivoted actuating arm connected with said bolt and extending through one of the handles whereby the sliding bolt may be actuated, and said housing having an opening into which the sliding bolt may be projected for locking the handles against rotation and operation of the latch.

2,638,371
TEMPORARY SECURING DEVICE
Emmett F. Kennedy, Maple Heights, Ohio, assignor to Grand Industries, Inc., Cleveland, Ohio, a corporation of Ohio
Application December 3, 1949, Serial No. 131,037
6 Claims. (Cl. 292—288)



1. A detachable fastening device for holding in closed position a pair of spaced front panels of a domestic gas range of the type in which the inner faces of adjacent upright margins of the front panels are juxtaposed against the forward face of an upright frame member of the range when the panels are closed, and comprising a metal strip having at one end a fastening portion adapted to be detachably secured to said frame of the range rearwardly from the panels, an intermediate relatively thin portion connected at one end to the fastening portion and adapted to lie between, and in juxtaposition with, one of said inner faces and said forward face when the fastening portion is so secured, a pronged forward portion extending from the other end of the intermediate portion and adapted to lie between the adjacent upright edges of the panels and including prongs adapted to extend forwardly beyond the outer face of the panels when the intermediate portion is so juxtaposed, cushioning means having passage means therein through which the forward portion extends for supporting the cushioning means on said forward portion, said cushioning means being adapted to overlap the front faces of said adjacent upright margins of the panels when so supported, a generally flat stiff washer engageable in face to face relation with the cushioning means and having aperture means therein through which the prongs are received endwise and in which they are accommodated, said washer being adapted to overlap said adjacent margins when it accommodates the prongs, and said prongs extending forwardly beyond the washer and being bendable by hand back toward the forward face of the washer across edge portions of the aperture means for holding the cushioning means in clamping engagement with said panels.

2,638,372
DIGGING TOOL
Walter R. Proetz, St. Louis, Mo.
Application September 29, 1947, Serial No. 776,729
4 Claims. (Cl. 294—50.8)



1. A tool of the kind described comprising a base member, means for securing a holding handle thereto, a pair of links secured to said base member in opposed relation and depending downwardly therefrom, a pair of V-shaped links pivotally connected to a common pivot supported by the lower ends of said depending links, an arcuate blade secured to the free side of each V-shaped link, a pair of opposed links pivotally connected to each V-shaped link, said last two pairs of links being pivotally connected at the opposite ends to a common pivot supported by and movable longitudinally of said depending links, and an operating member pivotally connected to one pair of said last links intermediate the ends thereof, said operating member being disposed substantially parallel to said base member and including means for attachment of an operating handle thereto, said blades being in spaced opposed positions in one extreme position of movement of said operating member and in closed bucket forming positions in the other extreme position of movement thereof, said operating member being reciprocable to open and close said blades thereby permitting digging or removal operations by said tool within a cylindrical area into which the blades will pass.

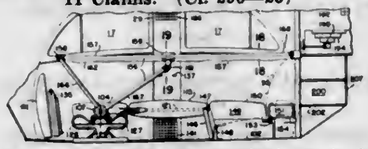
2,638,373
DEEP WELL FISHING TOOL
Norman W. Alford, Houston, Tex.
Application January 24, 1948, Serial No. 4,131
2 Claims. (Cl. 294—102)

2. A fishing tool comprising, a tubular housing having an inside downwardly tapering seat adjacent its lower end, an inwardly thickened, internally threaded coupling in the housing above said seat, a two part stem extended axially through the housing and whose lower portion is formed with external threads to mesh with said coupling threads, a gripping device depending from the lower end of the stem and having a swivelling connection therewith and including contractile means arranged to be contracted by said seat upon downward movement of the stem in the housing to grip an object in the tool, said stem being connected to the gripping device to move said device upwardly upon upward movement of the stem relative to the housing, clutch means on the upper part of the stem and on the housing engageable to cause rotation of the



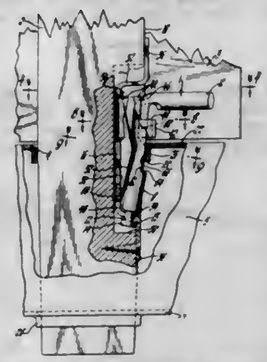
housing upon rotation of the stem and releasable to allow the stem to rotate independently of the housing, yieldable means normally tending to hold said gripping device on its seat and a coil spring acting against the stem and housing and normally tending to maintain said clutch means engaged, said spring being yieldable upon application of tension to the string to release said clutch means.

2,638,374
SEDAN HAVING VERSATILE STRUCTURE
Corwin D. Willson, Flint, Mich.
Application September 18, 1947, Serial No. 774,763
11 Claims. (Cl. 296—23)



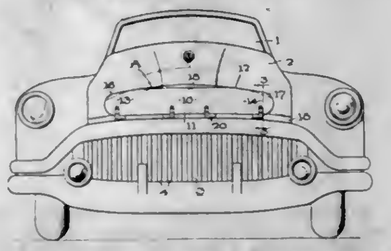
1. In an automobile of principal use in local transport, a body of the family-car type on road-wheels fore and aft and having a versatile structure comprising a compartment of fixed volume for a driver and 4–5 passengers extending from forward to rearward body barriers: the forward barrier including a windshield above driving controls behind said fore wheels and the rearward barrier including a bulkhead fixed across the lengthwise center axis of the body ahead of axes of the aft wheels and two forward-facing seats each having components fixed across said axis between doors in opposite sides of the compartment and a forward-facing housekeeping unit consisting of a cabinet for the cold storage of food, said cabinet backed by said bulkhead and having a work-top astride said axis and a cook-stove fixed to said worktop to permit a passenger positioned ahead of one of said components to utilize said unit while other passengers use said components to sit rearward facing or to lie horizontally thereon in swift transit alongside the driver behind said controls.

2,638,375
STAKE RACK LATCH
Gordon Rolland Jewell, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 18, 1950, Serial No. 174,447
16 Claims. (Cl. 296—43)



1. In a stake locking device for a truck or the like having a body provided with a stake socket and a keeper at one side of said socket, a stake insertable into the socket, a latch having a portion extending longitudinally of the stake, said portion having a connection with the stake securing the latch against displacement longitudinally of the stake while accommodating both rotation of the latch about an axis generally parallel with the stake and movement of the latch laterally of the stake, a spring interposed between the latch and the stake urging said portion laterally from the stake, a keeper engageable abutment on said portion, and coacting cam surfaces on said portion and body effective upon rotation of the latch to laterally move the latch in opposition to the spring to a position in which said abutment is disengaged from the keeper.

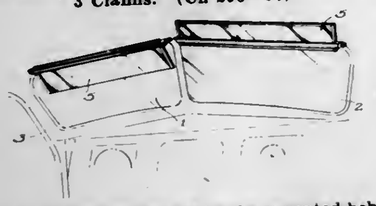
2,638,376
COMBINATION BUG AND AIR DEFLECTOR
Forrest Berry, Reading, Pa.
Application June 12, 1952, Serial No. 293,145
6 Claims. (Cl. 296—91)



1. A combination bug and air deflector for an automobile having a windshield and a forwardly projecting hook extending downwardly at the front with an air inlet positioned beneath the forward lower edge thereof, comprising a sheet member having a back edge curved to conform to the forward lower edge of the hood, a front edge generally parallel to the back edge of the sheet member, and mounting means on the back edge portion of the sheet member adapted to po-

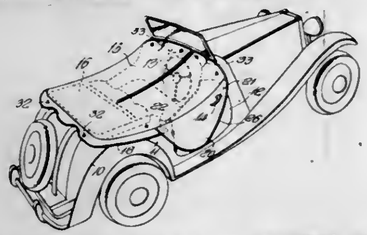
sition the deflector above the air inlet and at an angle to the horizontal such that a portion of the air striking the same is deflected upwardly and outwardly and another portion is deflected downwardly into the air inlet, the length of the sheet member being approximately the same as the width of the front portion of the hood, and the width thereof being such that the forward edge of the sheet member is below the top level of the hood.

2,638,377
ADJUSTABLE EYE SHIELD FOR PROTECTION AGAINST LIGHT GLARE
Harry F. George, Chicago, Ill.
Application December 15, 1949, Serial No. 133,097
3 Claims. (Cl. 296—97)



1. An eye shield adapted to be mounted behind the wind shield of an automotive conveyance, for protecting against light glare, comprising, an elongated back plate having forwardly extending top and bottom flanges forming a channel, an end member secured to each of the ends of the back plate, each of the end members having longitudinally extending back, top and bottom flanges extending into the channel of the back plate and a longitudinally extending front flange laterally outside of said channel and spaced forwardly of said end member top and bottom flanges to form a slot open at its inner end, an anti-glare vision panel having its end edges slidable in said open ended slots, and means for moving said panel edgewise through said slots.

2,638,378
TONNEAU COVER FOR MOTOR VEHICLES
Peter B. Molinaro, Verona, N. J.
Application January 2, 1952, Serial No. 264,576
3 Claims. (Cl. 296—136)



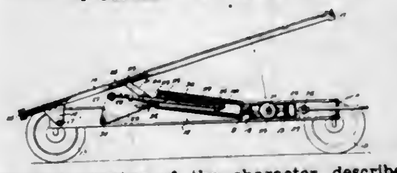
3. A device of the character described comprising, in combination with an automobile having a body having a rear wall, side walls, a door in each of said side walls, a handle for each of said doors, and an instrument panel roof; said walls, doors, and roof defining an open tonneau, the provision of a cover of flexible waterproof material, a dependent flap of flexible waterproof material affixed to the edge of said cover and extending along the rear edge and the rear portions of the side edges thereof, a pair of door flaps likewise formed of flexible waterproof material each affixed to the forward portion of a side edge of said cover, said door flaps each provided with an opening for receiving therethrough one of said handles, said cover being longitudinally split from the center of its forward edge to a point spaced from its rearward edge, and a slide fastener for closing the edges of said split portion, and snap fastener means for removably attaching said cover to said body.

2,638,379
REAR WINDOW FOR CONVERTIBLE AUTOMOBILE TOPS
Frank S. Spring, Grosse Pointe, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application January 25, 1950, Serial No. 140,461
3 Claims. (Cl. 296—145)



1. In a folding top for a convertible automobile body, a folding rear window for said top comprising a pair of laminated transparent panel sections spaced apart along horizontal edges, a plastic sheet having portions forming laminations for both panel sections, said sheet also having projecting portions extending from said panel sections including a portion bridging the space between said horizontal edges and hingedly connecting the panel sections together and also including marginal portions projecting outward from the marginal edges of the window to provide a hinge connection attachable to the top material adjacent said marginal window edges, foldable fabric reinforcing material embedded in the marginal projecting portions of the plastic sheet, and supplementary transparent reinforcing material comprising a coarsely woven foldable fabric embedded in the projecting portions of the plastic sheet above and below the laminated panel sections and interleaved between the layers thereof along the adjacent edges thereof.

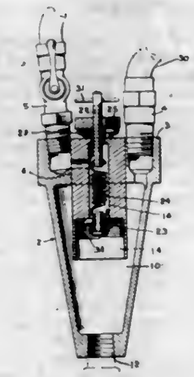
2,638,380
MECHANICAL LIFTING MECHANISM FOR DUMP TRUCKS
Robert C. Best, Indianapolis, Ind.
Application April 7, 1950, Serial No. 154,600
6 Claims. (Cl. 298—21)



1. An apparatus of the character described comprising a chassis of rectangular construction, a body-supporting frame likewise of rectangular construction pivotally connected at its rear end to the rear of said chassis, a cylinder centrally hinged to said chassis for vertical movement, a piston rod extending rearwardly through the free end of the cylinder, a piston affixed to the inner end of the rod and slidable within the cylinder, a sheave mounted at either side of the free end of the cylinder, a sheave mounted at either side of the forward face of the piston, a sheave centrally mounted upon the inner face of the free

end wall of the cylinder, a winch mounted upon said chassis, a cable anchored to said chassis at one end, entrained over said sheaves and connected to said winch at its other end, linkage and levers connecting the outer end of the rod, said chassis and said frame, and a source of power for turning said winch whereby, when said cable is wound thereon, an outward thrust is given said piston and said piston rod.

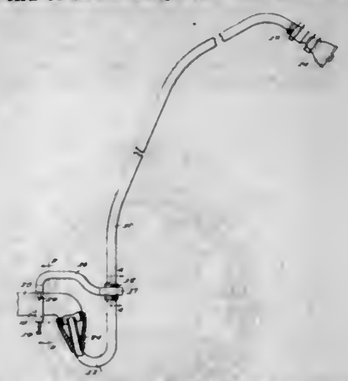
2,638,381
IMPULSE LIQUID AGITATOR
Dewey M. Paxton, Phoenix, Ariz.
Application March 3, 1950, Serial No. 147,538
4 Claims. (Cl. 299—25)



1. An air impulse liquid flow agitator, comprising in combination, a conical shaped body, enclosing a mixing chamber having an outlet opening at its tip, and a flat closure at its larger end, a liquid inlet near the side of said flat closure opening into the larger end of said chamber, and air inlet, including a valve, oppositely disposed thereon, an air vibrating element consisting of a cylinder centrally disposed in said end closure with one end opening outward of said chamber and the other end extending into said chamber; said cylinder having a central bore connected to said air inlet, and a valve seat at its inwardly opening end; a valve plug closing on said valve seat at the inner end of said cylinder, spring means for resiliently maintaining said valve on said seat, and a screw and nut extending out from the flat closure of said body adapted to adjust the tension of said spring.

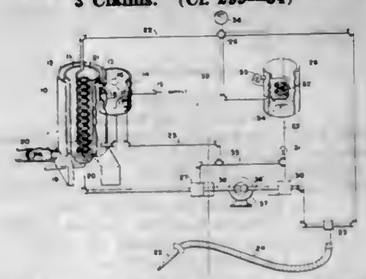
2,638,382
PORTABLE SHOWER ATTACHMENT
Ray Evans and John L. Essary, Knoxville, Tenn.
Application March 9, 1951, Serial No. 214,674
1 Claim. (Cl. 299—58)

A portable spray attachment comprising a vertically disposed tube having a spray head on the upper end, a U-shape section on the lower end and an exteriorly threaded boss spaced from the lower end, a bracket having an open ring with radially disposed thumb screws therein on one end and an internally threaded ring on the opposite end positioned with the internally threaded ring threaded on the threaded boss of the tube, and a flexible coupling member carried by one end of the U-shape section on the lower



end of the tube, said bracket adapted to support said tube on an outlet spout.

2,638,383
APPARATUS FOR THE PRODUCTION OF CONTROLLED SATURATED STEAM VAPOR
George Leo Hall, Atlanta, Ga.
Application May 5, 1950, Serial No. 160,186
3 Claims. (Cl. 299—84)

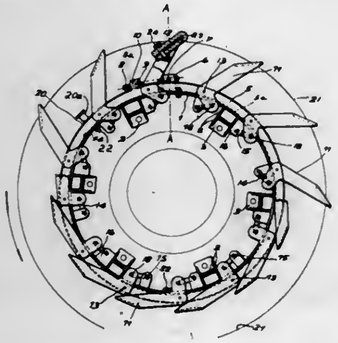


1. In a system of the class described, a reservoir in heat exchange relation with a source of heat, means for supplying water to said reservoir, means for controlling the level of water in said reservoir, a coil in heat exchange relation with said source of heat, fluid pumping means connected to pump water from said reservoir to said coil, a mixing chamber, conduit means connecting said coil to said mixing chamber, a chemical container, pipe means leading into said chemical container for the introduction of steam to agitate and heat the chemical therein, pipe means for mixing water from said reservoir with chemical from said container to form a solution, fluid pumping means connected to by-pass said coil and to pump said solution direct to said mixing chamber, and means connected to said mixing chamber for dispensing the contents thereof.

2,638,384
RETRACTABLE STRAKE DEVICE
Louis Colin, Quimper, France
Application May 18, 1950, Serial No. 162,620
In France May 23, 1949
10 Claims. (Cl. 301—47)

1. A retractable strake device for the wheels of tractors and other vehicles, comprising a first

ring, brackets fastened to said first ring and adapted to be secured and laterally centered on the vehicle wheel, a second ring slidably mounted on said first ring so as to be angularly movable with respect thereto, said second ring being of channel section and having a web engaging the outer surface of said first ring and two outwardly directed flanges, a wall closing the channel section of said second ring to form a grease container therein, said web being formed with holes for the passage of grease to the surfaces by which said second ring slides on said first ring, strakes pivotally mounted on said second ring and links connecting said strakes to fixed points of said first ring.

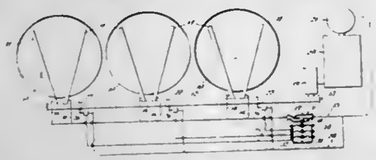


2,638,385

CONVEYING APPARATUS

Mikael Vogel-Jorgensen, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

Application August 5, 1947, Serial No. 766,157
In Denmark October 20, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 20, 1963
7 Claims. (Cl. 302—11)



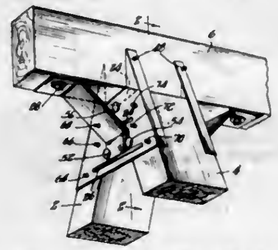
1. A conveying system for pulverulent material comprising a plurality of containers for the material, means extending from the interior of each container to the outside thereof for removing the material from the container, a conveyor for receiving the material removed from the containers, means for controlling the operation of the removing means, and means disposed adjacent to and beyond the points of delivery of the material from each container to the conveyor and acted upon by the material being advanced by the conveyor to cause the control means to reduce the effectiveness of the removing means for all of the containers, when the conveyor is advancing an overcharge of material at any of the locations of the said means disposed adjacent to and beyond the points of delivery.

2,638,386

STRUCTURAL JOINT

Charles O. Larson, Sterling, Ill.

Application February 19, 1947, Serial No. 729,434
1 Claim. (Cl. 304—5)



In a device of the class described, a top beam, a pair of legs convergingly related to each other and to the beam at opposite and end portions of the beam, means for securing each pair of legs together and to the beam, said means comprising a pair of separate, independent and identical stamped sheet metal plates for each pair of legs, each plate including a tapered quadrilateral face portion having an approximately rectangular notch inset from its shorter upper parallel side for receiving the top beam and having straight flanges extending right angularly from its converging sides and engaged with the outer faces of the legs, fastening bolts disposed in pyramidal spaced relation passing through openings in the side plates between the spaced upper portions of the converging legs for clamping the plates together with the legs therebetween, each of said plates having an outstanding integral rigidifying boss extending parallel to and spaced from the bottom edge of the plate, and a pair of sheet metal struts each comprising an elongated strip having its opposite ends bent substantially forty-five degrees to the plane of the intermediate portion of the strip, one of said ends of each strut having a fastener opening, and fastener means for securing the same to the spaced underside of the beam on each side of the legs, and the other end of each strut lying in contact with the upper wall of said rigidifying boss, two of the pyramidal spaced apart openings for the bolts lying immediately above said rigidifying boss, and the lower end of said sheet metal strut having end slots into which said last mentioned pair of spaced bolts pass whereby said bolts which clamp the clamping plates together likewise clamp the rigidifying struts in position.

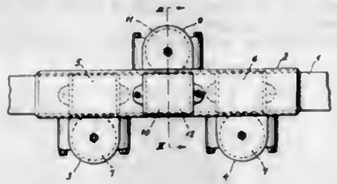
2,638,387

GUIDING DEVICE FOR TOOL MACHINES

Jørgen Bech, Lyngby, Denmark

Application July 26, 1947, Serial No. 763,915
In Denmark October 5, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 5, 1963
3 Claims. (Cl. 308—6)

1. A guiding device for tool machines comprising a cutter head guiding rod of angular cross section, and a casing surrounding said rod, said rod and said casing being relatively displaceable longitudinally with respect to each other, two relatively interspaced pairs of rollers mounted on axles rigidly secured in the said casing, one roller of each pair bearing on one side of the said guiding bar, the other roller of each pair bearing on an adjoining side of the guiding bar, another pair of rollers spaced from the aforesaid two pairs of rollers and mounted on axles adjustably secured in said casing, the rollers of the said other pair of rollers each bearing on one of the other two adjoining sides of the said guiding rod.

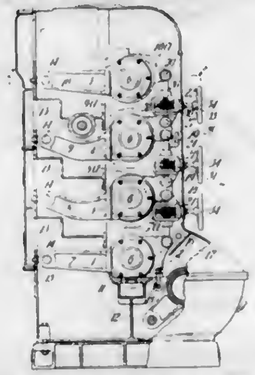


2,638,388

ADJUSTMENT MEANS FOR THE ROLLS OF MULTIROLL CHOCOLATE AND LIKE REFINING MACHINES

Allan A. Tunley, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England

Application March 25, 1950, Serial No. 151,877
In Great Britain April 11, 1949
2 Claims. (Cl. 308—61)



1. In a roll refiner for chocolate and the like, the combination including: a frame; a plurality of pairs of vertically spaced levers pivotally mounted at one end to said frame; horizontally disposed refining rolls rotatably mounted between each pair of levers and intermediate the ends of said pairs of levers, the lowermost of said rolls being fixed against vertical movement; links connecting each pair of said levers with each adjacent pair of said levers at the ends remote from the pivotal ends of said levers; and adjustable self-locking means for varying the length of each of said links and permitting adjustment of the nip between each end of any two selected refining rolls without affecting the nip between other refining rolls.

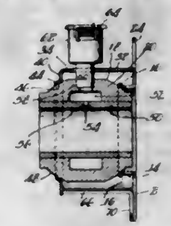
2,638,389

SIDE MOUNT PILLOW BLOCK BEARING

Robert L. Whiteley, Oakpark, and Harry B. Hostetler, Maywood, Ill., assignors to Randall Graphite Products Corporation, Chicago, Ill., a corporation of Delaware

Application April 5, 1947, Serial No. 739,590
12 Claims. (Cl. 308—72)

1. A sheet metal blank for forming a side mount pillow block bearing housing comprising a substantially square plate-like member having a central, substantially large diametered opening therein, the circular edges of the opening being bumped laterally and provided with annular walls of curved cross section to provide a first universal mounting seat, one of the sides of said substantially square plate-like member being centrally slit at spaced portions extending transversely of the edge to provide an integral strap, said strap extending well beyond said side of said plate-like member centrally thereof, said strap being provided with a generally circular extension, said generally circular extension being provided with a central, relatively large diametered opening, the diameter of said last mentioned opening corresponding with the diameter of the large diametered opening of the plate-like member, the mouth of the opening in said circular extension being formed annularly and provided with inner curved walls corresponding to the curvature of the walls of the mouth of said opening in the plate-like member, said substantially circular extension being formed with a pair of radially extending, elongated tabs, each of said tabs at its outer end being provided with a central opening.



2,638,390

PISTON AND RING

Johannes E. Neeme, Arthur, N. Dak.

Application August 2, 1950, Serial No. 177,205
4 Claims. (Cl. 309—4)



1. In combination, a piston having a packing ring groove, a packing ring mounted in said groove, said groove having a wall defining the innermost limits thereof, means forming a channel in said wall extending inwardly of the inner periphery of said ring, and a plurality of upwardly opening drainage canals formed in the lowermost wall of said groove and below the bottom surface of said ring.

2,638,391

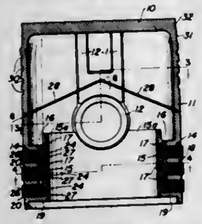
PISTON FOR INTERNAL-COMBUSTION ENGINES

Wilfrid Heusser, Salt Lake City, Utah

Application February 13, 1950, Serial No. 144,007
15 Claims. (Cl. 309—7)

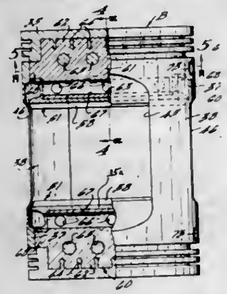
1. In a piston for internal combustion engines, said piston having a head and a circumferential depending skirt open at its lower end, a series of annular receiving recesses formed externally in the lowermost portion of the skirt adjacent the open end thereof; piston ring carriers fitted within the respective receiving recesses; relatively soft, wick-type piston rings fitted into respec-

tive piston ring carriers; resilient expander rings backing said carriers; and oil-flow passages extending through the piston skirt and through said carriers and spaced circumferentially



around said receiving recesses to establish oil-flow communication between said piston rings and the hollow interior of the piston, so as to conduct splash oil from the interior of the piston onto said piston rings.

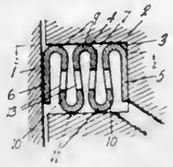
2,638,392
PISTON
John P. Butterfield, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 15, 1950, Serial No. 201,032
15 Claims. (Cl. 309—10)



1. A piston comprising a head portion and an encircling, depending, skirt portion, a web depending from the inner surface of said head portion, a bearing block slideway supported from the free end of said web and arranged to extend transversely of said skirt portion but disconnected therefrom, said web having a bore extending therethrough in a direction longitudinally of and adjacent the slideway, said web having relatively limited portions adjacent each end thereof connected to said skirt portion and providing the only contact between said head and said skirt portion.

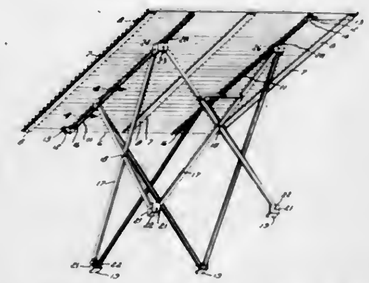
2,638,393
PISTON RING
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Co., Hastings, Mich.
Application March 30, 1951, Serial No. 218,444
14 Claims. (Cl. 309—45)

1. A split resilient radial piston ring element formed of integral ductile resilient sheet metal of substantially uniform thickness throughout zigzag folded to provide radially concentric outer and inner parallel members, and loop-like radially springable intermediate members radially concentric to the outer and inner members and having curved bights and converging reaches merging into the bights, adjacent bights of the intermediate members being initially spaced and disposed to positioningly coact with the opposite side walls of a piston ring groove, the outer member constituting a cylinder wall engaging mem-



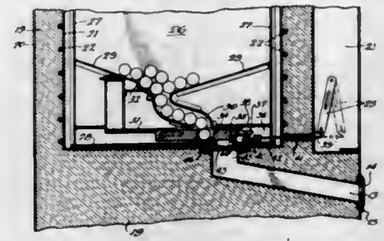
ber and the inner member being adapted to supportedly engage the bottom of a piston ring groove, bights of the intermediate members being adapted to coact with the side walls of a piston ring groove in which the element is installed.

2,638,394
KNOCKDOWN TABLE
Martin T. Ulrich, Centerville, Calif.
Application June 28, 1949, Serial No. 101,849
3 Claims. (Cl. 311—78)



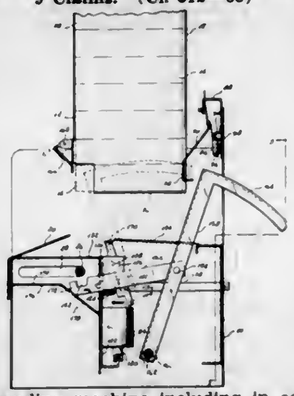
1. A demountable table comprising, in combination, a plurality of slat members contiguously arranged to form a substantially flat table top, hinge elements connecting adjacent slat members and by means of which the table top may be coiled into a cylindriform bundle, at least one vertically flanged stiffener rail engaged with one of said slat members and movable relative thereto from a position paralleling the latter slat member to a position traversing others of the slat members to hold the table top against substantial flexure, means on one of the others of said slat members for releasably engaging said stiffener rail to hold the latter in said position traversing the slat members, a radially contractible supporting frame of generally rectangular cross-sectional form each side of which comprises a pair of crossed and pivotally engaged leg bars, clips pivotally engaged with and connecting the leg bars of each side of the supporting frame with leg bars of the adjacent sides thereof, said clips having notches therein for receiving the flanges of said stiffener rail so as to lock the supporting frame in engagement and against relative movement to the stiffener rail in one direction, tabs on said clips lying adjacent said stiffener rail, said tabs having latch apertures therein, and spur latch elements carried by said stiffener rail and engageable in the latch apertures of the clips for holding the supporting frame and stiffener rail against relative movement in another direction.

2,638,395
REFRIGERATED DISPENSER
Charles C. Smith, Peoria, Ill., assignor to Smithco, Inc., Peoria, Ill., a corporation of Illinois
Application November 12, 1947, Serial No. 785,300
16 Claims. (Cl. 312—36)



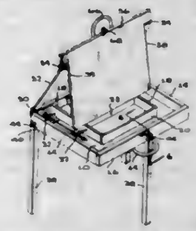
1. An article hopper adapted for use in a refrigerated article dispenser to dispense articles singly therefrom comprising side walls, a sloping bottom, a dispenser slide and agitator reciprocable beneath the hopper to dispense articles singly therefrom and forming part of the bottom thereof, a cavity in the dispenser slide, a reserve tube leading from the hopper bottom to the dispenser slide, means upon the dispenser slide to move it vertically beneath the hopper as it is reciprocated to dispense articles singly therefrom, a hopper throat beneath the dispenser slide, and an insulating strip surrounding the hopper throat and compressible by the dispenser slide as it is moved into a position where the cavity in the dispenser slide is beneath the reserve tube.

2,638,396
SANDWICH VENDING MACHINE
Christian Gabrielsen, Whippany, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York
Application August 2, 1950, Serial No. 177,159
9 Claims. (Cl. 312—65)



1. A vending machine including in combination a plurality of substantially vertical columns adapted to support stacks of articles to be vended, a main prime mover, an operating member adapted to be actuated by said prime mover, a plurality of selector switches associated with respective columns, a plurality of electrically energizable moving means associated with respective selector switches, circuit means for said moving means controlled by said selector switches, a switch for energizing the prime mover, a plurality of ejecting means associated with respective columns adapted to eject the bottommost article of a stack from each column, coupling means associated with each of said ejecting means adapted to couple a respective ejecting means to said operating member, a plurality of switch operating members associated with respective columns each adapted to actuate said switch for energizing the main prime mover, means responsive to the energization of one of said electrically energizable moving means for actuating a switch operating member to initiate the action of the main prime mover and to move a coupling means to coupled position.

2,638,397
COMBINATION PAINT BOX AND EASEL
Richard T. Wykoff, Clearwater, Fla.
Application November 2, 1951, Serial No. 254,475
2 Claims. (Cl. 312—231)

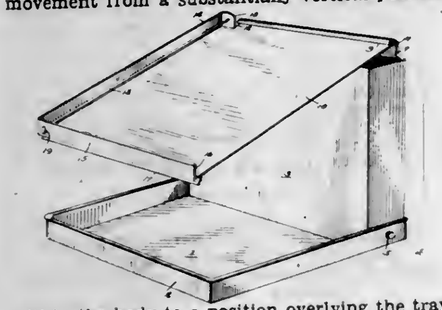


1. An artist's paint box comprising a receptacle; strips hinged at one end to one edge of the receptacle for swinging movement toward and away from the receptacle to lowered and raised positions respectively; a lid body hinged to the other ends of the strips so as to be swingable into coplanar and angular relationships thereto, said lid body swinging into an angular relationship in the raised position of the strips to cooperate therewith in forming an easel, and swinging into said coplanar relationship in the lowered strip position to form, with the strips, a lid for the receptacle; a latch on the lid body engageable with the receptacle along that edge thereof opposite said one edge in the lowered, lid-forming position of the strips and lid body; and stop elements mounted on the strips and arranged to shift into position over the lid body in said lid-forming position thereof, to cooperate with the latch in holding the lid body and strips against relative swinging movement while in their lowered, lid-forming positions.

2,638,398
HOLDER FOR A TELEPHONE AND TELEPHONE DIRECTORY
John E. Whitaker, Monroe, La.
Application July 2, 1951, Serial No. 234,744
1 Claim. (Cl. 312—233)

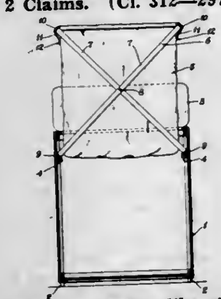
A telephone and telephone directory support comprising a substantially horizontally disposed shallow rectangular tray forming a telephone instrument support, an elongated hollow substantially rectangular body carried by the tray and extending upwardly therefrom adjacent one marginal edge thereof, said body having an open upper end for admitting a telephone directory edgewise into the body, an extension carried by the wall of the body adjacent the adjacent marginal edge of the tray and projecting upwardly

from the body adjacent the open upper end thereof, a flange carried by the extension and projecting over the body in spaced relation to the upper end thereof, a substantially rectangular telephone book supporting panel carried by the body for movement from a substantially vertical position



within the body to a position overlying the tray, and a lip carried by the panel and projecting outwardly therefrom adjacent one marginal edge thereof for engaging the flange and holding the panel in spaced relation to the tray and above a telephone instrument thereon.

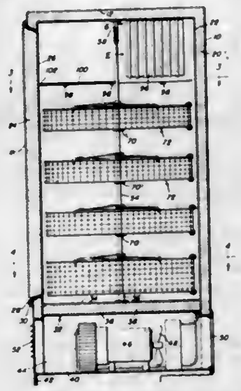
2,638,399
CLOTHES HAMPER
Elizabeth W. Seymour, Canton, Ohio
Application July 19, 1951, Serial No. 237,584
2 Claims. (Cl. 312—297)



2. In combination, a box-like clothes hamper provided with an access opening in the top thereof, a frame member having pairs of upper and lower cross members thereon, said frame member removably supported entirely within said hamper, an open-ended fabric bag having side walls and a bottom therein, flap portions extending beyond two opposed sides of the bag at the open end thereof to engage over the upper cross members of said frame suspending said bag within said frame, cooperative detachable fasteners on said flap portions and the bag side walls engageable to secure said bag in its suspended position, a double side wall structure on one portion of said bag forming an auxiliary pocket therein, and cleats on the inner walls of said hamper adjacent the top thereof engageable with the lower cross members of the frame to selectively support said frame in an elevated position in said hamper to extend through the access opening therein.

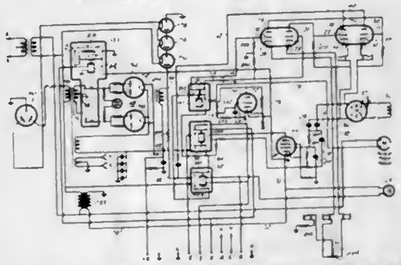
2,638,400
ROUND REFRIGERATOR
Lee E. Spotts, Slater, Mo., assignor of one-half to William H. Ferguson, St. Louis, Mo.
Application September 27, 1948, Serial No. 51,375
1 Claim. (Cl. 312—305)

A refrigerator comprising a cylindrical housing, an axial support rod in said housing, a plurality of rigidly attached tray supporting shoulders on said rod, annular trays detachably mounted on said shoulders and rotatable about said rod, each of said trays including a pair of semi-circular sections of material pervious to fluids, said sections being hinged together at one



end and detachably fastened at the opposite end, each section being provided at their centers with an offset portion, said offset portions defining a circular opening receiving the rod, tray reinforcing brace rods including central portions embracing the support rod and rotatable thereon, and end fastening portions engaging the rim of said trays at opposite points.

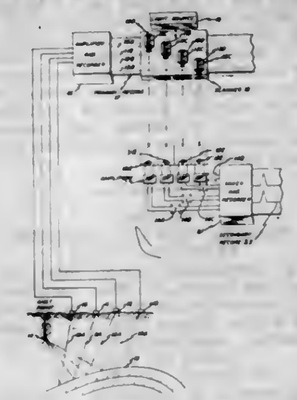
2,638,401
ELECTROCARDIOGRAPH
Joseph Lukacs, Astoria, N. Y., assignor, by mesne assignments; to Technicon Cardiograph Corporation, New York, N. Y.
Application January 29, 1947, Serial No. 725,026
32 Claims. (Cl. 346—33)



1. Apparatus for use in an electro-cardiograph having a paper-feed and a recording stylus, an electric motor for operating the paper feed, a voltage amplifier, a power amplifier operable in response to signals from said voltage amplifier, a driving coil operable by the current supplied thereto from said power amplifier for actuating the recording stylus, and means for delaying the operation of said paper-feed motor until the operation of said voltage amplifier is stabilized, said motor being normally unenergized, and said delay means comprising a circuit in a normally non-conductive state, and means for rendering said circuit conductive after a predetermined time-delay whereby to energize said motor.

2,638,402
SEISMIC PROSPECTING
Burton D. Lee, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 9, 1947, Serial No. 753,541
2 Claims. (Cl. 346—33)

1. In apparatus for investigating at least three traces of seismic waves originally recorded side by side with phase-time differences therebetween and originating from a single seismic disturbance but picked up at different points spaced from each other, the combination which comprises individual scanning means on the individual traces adjustable lengthwise along the traces with respect to each other to compensate for phase-time differences between traces, individual pickups operatively associated respectively with the individual scanning means for producing currents that vary as the original traces, individual amplifiers connected respectively to the outputs of the individual pickups, means for combining the outputs of one set of at least two of the amplifiers, means for combining the outputs of a different set of at least two of the amplifiers, means for reversing the phase of the output of one of the amplifiers to be combined, and means for recording the wave forms of the respective combined outputs as traces disposed side by side on a record and means for changing the relative positions of at least one of the scanning means lengthwise of its trace during the recording of the combined out-

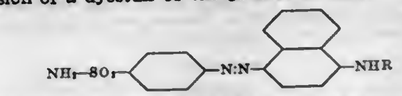


puts to compensate for a change in the phase-time difference between said trace and another of the traces during said interval.

CHEMICAL

2,638,403
DYEING OF NYLON WITH SULFONAMIDE AZO DYES
Ernest Stead, Alec Murray, and Donald Burtonshaw, Leeds, England, assignors to Yorkshire Dyeware and Chemical Company Limited, Leeds, England, a British company
No Drawing. Application September 15, 1949, Serial No. 115,956. In Great Britain January 20, 1949
2 Claims. (Cl. 8—41)

1. The process of dyeing nylon which comprises bringing it into contact with an aqueous dispersion of a dyestuff of the general formula

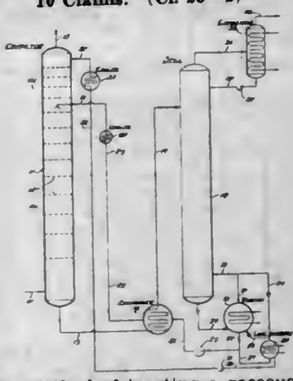


where R represents a radical selected from the group consisting of monohydroxyalkyl and monosulphatomonohydroxyalkyl radicals.

2,638,404
METHOD OF DYEING NITROGENOUS FIBERS WITH METALLIZED AZO DYES
Henry Edmond Millson, Plainfield, and Shannon Mooradian, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 10, 1951, Serial No. 210,426
10 Claims. (Cl. 8—43)

1. A method of dyeing nitrogenous fibers with metallized azo dyes soluble in acid baths, which comprises subjecting the material to be dyed to a dye bath containing metallized dye; formic acid; and an amount sufficient to be effective but insufficient to cause scum formation and excessive precipitation in the bath, of a 2-alkyl guanamine; said alkyl group being an aliphatic hydrocarbon chain of 7 to 17 carbon atoms and said 2-alkyl guanamine having polyalkylene oxide chains attached to the amino nitrogens, said polyalkylene oxide chains containing at least 11 but not more than 100 ether oxygen atoms separated by at least 2 but not more than 3 carbon atoms; and said dye bath being further characterized by the absence of mineral acids.

2,638,405
AMINE TREATING AND DEHYDRATION OF GASES
Henry D. Frazier, Alhambra, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application October 31, 1947, Serial No. 783,323
10 Claims. (Cl. 23—2)



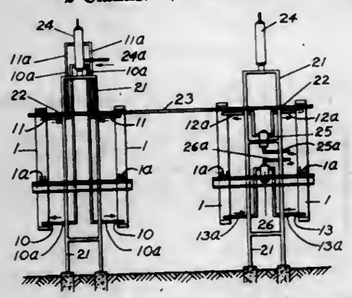
10. The method of treating a gaseous mixture for the removal of moisture and an acidic constituent, that includes contacting the gas in a

first zone with a solution containing water and methyldiethanolamine to remove said acidic constituent by reaction with the amine, then contacting the gas in a second zone with a solution of said amine sufficiently concentrated to substantially dehydrate the gas, passing all the amine through a heating and regenerating zone to regenerate the amine solution and returning a portion of the regenerated solution to said first zone, and passing another portion of the regenerated solution through a heating and concentrating zone and returning the concentrated solution to said second zone.

2,638,406
PRODUCTION OF URANIUM TETRAFLUORIDE
Arthur D. Tevebaugh, Ames, Iowa, and Fred Vaslow, Los Alamos, N. Mex., assignors to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application December 14, 1945, Serial No. 635,104
12 Claims. (Cl. 23—14.5)

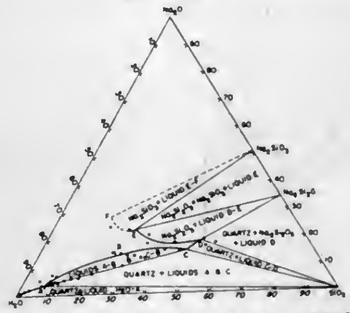
1. The process of producing uranium tetrafluoride from uranium hexafluoride which comprises contacting the uranium hexafluoride with a hydrogen halide selected from the group consisting of hydrogen bromide, hydrogen iodide and hydrogen chloride.

2,638,407
APPARATUS FOR CLOSE TEMPERATURE CONTROL OF CATALYZED GAS REACTIONS
Asa B. Steeves, Metuchen, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1949, Serial No. 136,279
2 Claims. (Cl. 23—288)



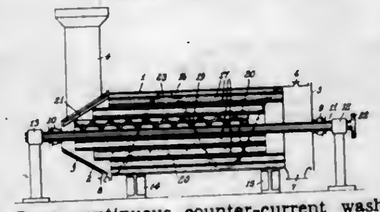
1. An apparatus for contacting fluid reactant materials with a fixed bed solid catalyst therefor, comprising a plurality of vertical reactor vessels of substantially equal volume symmetrically disposed in arcuately spaced relation one to another, equidistant radially from a common center, a heat exchange chamber in each vessel, a plurality of substantially identical, elongated, tubular reactor elements equally distributed among said vessels, symmetrically disposed in spaced parallel relation interiorly of each vessel, extending vertically through the heat exchange chamber therein, said elements in communication above and below said chamber, a common reservoir vessel for a heat exchange fluid, a common reservoir vessel for a fluid reactant material, and a common receiver vessel for said material after passage through said reaction elements, all disposed in a vertical line through said center point, and conduit connections between said reservoir and receiver vessels, and the reactor vessels, said connections being of substantially identical length and nature between the respective reactor vessels and any one of said reservoir or receiver vessels.

2,638,408
METHOD OF SYNTHESIZING LARGE SINGLE CRYSTALS OF QUARTZ
Isidore I. Friedman, Washington, D. C., and Orville F. Tuttle, Kensington, Md.
Application July 6, 1948, Serial No. 37,176
2 Claims. (Cl. 23—301)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A method of growing larger crystals of quartz by deposition of quartz from solution onto crystal seed quartz which comprises cooling in a closed system in the presence of crystal seed quartz a hot body of aqueous sodium silicate solution which is in equilibrium saturation with respect to quart, has a sodium oxide equivalent equal to a concentration of from about 0.5 to about 20% by weight of sodium hydroxide and is at a temperature within the range of between about 250 and about 450° C., and conducting the cooling of said solution at a rate such that while quartz is deposited therefrom onto the crystal seed quartz, the resulting solution attains equilibrium saturation with respect to quartz at each succeeding lower temperature level.

2,638,409
COUNTERCURRENT EXTRACTION APPARATUS AND PROCESS
Giacomo Bottaro, Genoa, Italy
Application December 10, 1947, Serial No. 790,809
In Italy, October 28, 1947
17 Claims. (Cl. 23—310)



1. In a continuous counter-current washing and extracting process for treating liquids and solids by means of a liquid treating agent which comprises, continuously introducing the material to be treated under positive pressure into one end

of a treating zone, distributing the material into a plurality of separate substantially parallel eccentrically-related continuous streams, imparting a spiral movement to the material in each of said streams, continuously introducing under positive pressure into the other end of the treating zone a liquid treating agent of a lower specific gravity than the material being treated, distributing said treating liquid into a plurality of separate parallel eccentrically-related continuous streams, each of said treating liquid streams being caused to flow in a continuous path countercurrently along the same continuous path being traversed by one of said streams of material being treated, whereby intimate continuous countercurrent contact between the material being treated and the treating liquid is effected along each of said separate paths, reuniting the streams of treated material at one end of the treating zone, removing said treated material from the zone, reuniting the streams of the treating liquid at the other end of said zone and removing the said liquid therefrom.

2,638,410
BRIGHTENING NICKEL
Walter G. Zelley, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application January 16, 1951, Serial No. 206,314
5 Claims. (Cl. 41—42)

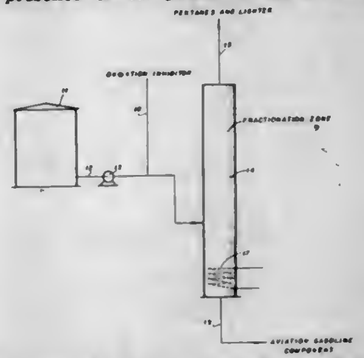
1. A method for chemical brightening of nickel which comprises immersing a nickel article in a solution consisting essentially of about 45 to 60 per cent phospheric acid, about 15 to 25 per cent sulfuric acid, about 8 to 15 per cent nitric acid and about 10 to 20 per cent water, on a weight basis referred to the total weight of the aforesaid components, the solution being maintained at a temperature above about 65° C.

2,638,411
WAX COMPOSITION
Warren L. Thompson, Robert W. Provine, and John V. Lawson, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware
No Drawing. Application October 8, 1945, Serial No. 621,164
1 Claim. (Cl. 44—7.5)

A hardened paraffinic wax composition comprising an eutectic mixture of about 67% palmitic acid, about 29% stearic acid, and about 4% oleic acid, the quantity of said eutectic mixture being between about 5% and about 21% of the composition, microcrystalline wax amounting to at least 1% of the composition, and a relatively large volume of paraffin wax hardened by said eutectic and microcrystalline ingredients, the quantity of said paraffin wax being more than 75% of the hardened composition.

2,638,412
DISTILLATION OF AVIATION GASOLINE COMPONENTS
John G. Browder, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application April 14, 1951, Serial No. 221,092
4 Claims. (Cl. 44—78)

4. A method for removing pentanes and lighter fractions from a hydrocarbon fraction susceptible to formation of gum on exposure of same to an elevated temperature which comprises distilling a hydroformed fraction consisting of a predominant amount of saturated hydrocarbons, a lesser amount of aromatic hydrocarbons, and a still lesser amount of olefinic hydrocarbons and boiling in the range between 85° and 200° F. in the presence of 0.1 pound of 2,6-di-tertiary-



butyl-4-methyl phenol per thousand gallons of said hydroformed fraction at a temperature no greater than 145° F. to remove as an overhead fraction pentanes and lighter and recovering as a bottoms fraction gum stable higher boiling fractions containing said inhibitor as a component of aviation gasoline.

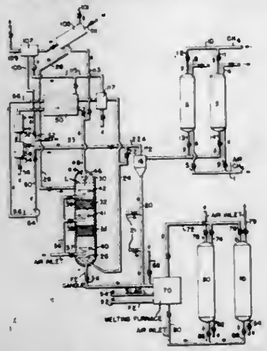
2,638,413
ABRASIVE ARTICLES
Norman P. Robie, Hamburg, N. Y., assignor to Electro Refractories & Abrasives Corporation, a corporation of Delaware
No Drawing. Application August 10, 1949, Serial No. 109,621
6 Claims. (Cl. 51—298)

3. An abrasive article comprising abrasive grains, an anhydrous lead salt of a strong acid in finely divided form, said salt being a member of the group consisting of non-basic lead sulfate, lead halides and mixtures thereof, and a phenolic resin thermo-set bond uniting said grains and said lead salt into an integral body, said lead salt being substantially insoluble in water and non-reactive with said bond and being substantially uniformly dispersed throughout said body, said lead salt comprising from 3% to 30% by weight of the article.

2,638,414
PROCESS OF RECOVERING METALS BY GASEOUS REDUCTION
Warren K. Lewis, Newton, Mass., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 30, 1948, Serial No. 41,604
13 Claims. (Cl. 75—26)

1. A method of recovering metal from a solid, finely divided compound thereof which is reducible to metal by hydrogen which comprises maintaining a dense, turbulent mass of said metal compound fluidized by an upwardly flowing gas stream to resemble a boiling liquid having a well defined level within a reduction zone at a reduction temperature, causing said fluidized mass of metal compound to flow downwardly against the upwardly flowing stream of gas, limiting the back-mixing of solids in a vertical direction by obstructing the free, vertical flow of solids and

gases at least at one point along their vertical path within the reduction zone, contacting said mass with an amount of hydrogen in excess of that required for reducing said compound to metal, supplying heated finely divided metal compound particles to said reduction zone, withdrawing a gas mixture containing hydrogen and steam from an upper portion of said reduction



zone, removing water from said gas mixture to obtain substantially dry hydrogen, recycling at least a portion of said dry hydrogen to said reduction zone thereby maintaining the atmosphere in said reduction zone capable of reducing the finely divided metal compound to metal, adding further quantities of hydrogen to said reducing zone and withdrawing reduced metal from a lower portion of said reduction zone.

2,638,415

PRODUCTION OF CELLULOSE

John Edward Jones and Reginald Richard Stott, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application December 27, 1948, Serial No. 67,546. In Great Britain January 14, 1948

9 Claims. (Cl. 92—11)

1. Process for the production of cellulose from raw ligno-cellulosic material, which comprises impregnating the material with a 2 to 5% aqueous solution of a caustic alkali, lowering the temperature of the impregnated material to a level at which all the water contained therein is frozen, keeping the impregnated material in this condition for 1 to 5 hours, raising the temperature so as to melt all the ice formed, removing at least the greater part of the alkali solution from the material and subjecting the material to a delignifying treatment.

2,638,416

DEVELOPER COMPOSITION FOR DEVELOPING AN ELECTROSTATIC LATENT IMAGE

Lewis E. Walkup, Columbus, Ohio, and Edward N. Wise, Los Alamos, N. Mex., assignors, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware

No Drawing. Application May 1, 1948, Serial No. 24,674

9 Claims. (Cl. 95—1.9)

1. A developer composition for developing an electrostatic latent image of substantially homogeneous polarity comprising relatively larger substantially equidimensional carrier particles and grossly smaller colored resin powder particles loosely movable and electrostatically coated thereon, the powder particles being of a size in the order of 0.1 to 20 microns, the carrier particles being of a size such that by their own weight they are movable away from oppositely charged powder particles, the powder particles and carrier particles being of opposite triboelectric characteristics whereby, by mixing, the carrier and powder particles acquire charges of opposite polarity, the powder particles being triboelectrically opposite, with respect to the carrier particles, to the polarity of the image to be developed and the powder particles by mixing with the carrier particles acquiring a charge of polarity opposite to the image, whereby the powder particles are adapted to be electrostatically removed from the carrier surfaces by and to the charged portions of the electrostatic image and preferentially attracted by and to the carrier surfaces from the background portions of the image.

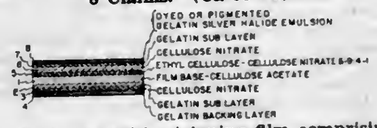
2,638,417

PHOTOGRAPHIC FILMS HAVING A STRIPPING LAYER COMPOSED OF A MIXTURE OF ETHYL CELLULOSE AND CELLULOSE NITRATE

Clayton F. A. White, Stelton, and John R. Hill, Piscataway Township, Middlesex County, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 3, 1949, Serial No. 125,198

8 Claims. (Cl. 95—9)



1. A photographic stripping film comprising a hydrophobic cellulose carboxylic acid ester film base having one surface coated in order with a thin moisture-proofing layer and a water-permeable colloid backing layer and the other surface of said base coated in order with a stripping membrane composed of a mixture of water-insoluble ethyl cellulose and cellulose nitrate in the proportion of 6 to 9 parts of the former to 4 to 1 part of the latter, a thin layer composed of a water-insoluble, film-forming material selected from the group consisting of cellulose esters, polyvinyl esters and polyvinyl acetals, and a gelatino silver halide emulsion layer containing a coloring substance.

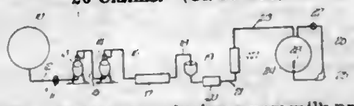
2,638,418

MILK PRODUCT CONTAINING MILK FAT, AND PROCESS OF PRODUCING SAME

Clayton A. Kempf, Berkeley, Joy Sutherland Neidlinger, San Francisco, Aubrey P. Stewart, Jr., Berkeley, and Paul F. Sharp, Oakland, Calif., assignors to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware

Application July 3, 1952, Serial No. 297,201

26 Claims. (Cl. 99—56)



1. The process of producing a new milk product containing milk fat which is capable of imparting a high milk flavor to various food products to which it is added as an ingredient, which comprises hydrolyzing from approximately 15 degrees to approximately 40 degrees of free fatty acids in the milk fat by the action, for the most part, of the natural lipase of the milk, while said milk is maintained at a temperature of between approximately 30° F. and 50° F., and thereafter removing from approximately 30% to approximately 45% of the volatile water-soluble free fatty acids and from approximately 15% to approximately 25% of the volatile water-insoluble free fatty acids.

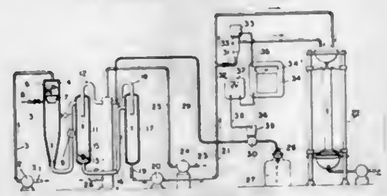
2,638,419

HYDROGEN ION CONCENTRATION ADJUSTMENT

Roy Robichaux, Brodhead, Wis.

Application February 10, 1949, Serial No. 75,643

24 Claims. (Cl. 99—60)



1. A method for treating a continuously flowing stream of lacteal fluid to control and adjust the pH value thereof to a predetermined desired magnitude comprising, continuously flowing a stream of lacteal fluid into, through and discharging the stream from a zone of sub-atmospheric pressure wherein the stream of fluid is subjected to a pH value adjustment reaction, continuously determining the pH value of the stream of lacteal fluid discharged from said zone of sub-atmospheric pressure, automatically and continuously drawing the pH adjustment medium into said stream of lacteal fluid by the action of said sub-atmospheric pressure in proportion to the deviation from an established magnitude of the pH value of the stream of lacteal fluid discharged from said zone of sub-atmospheric pressure, continuously intermingling the flowing stream of lacteal fluid with the pH adjustment medium drawn into said stream, subjecting the intermingled mixture of lacteal fluid and pH adjustment medium to the effects of sub-atmospheric pressure while continuing the intermingling action until the ion concentration adjustment is substantially completed, and continuously withdrawing the treated stream of lacteal fluid from the zone of sub-atmospheric pressure.

2,638,420

PROCESS FOR THE PREPARATION OF A STABLE BUTTER

Frederik Dirk Tollenaar, Utrecht, Netherlands, assignor to de Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Voeding, The Hague, Netherlands, a corporation of the Netherlands

No Drawing. Application June 15, 1951, Serial No. 231,893. In the Netherlands June 21, 1950

15 Claims. (Cl. 99—164)

1. As a new article of manufacture, a manufactured butter product having incorporated therein a substance selected from the group consisting of dialkyldithiocarbamic acids and salts thereof, in an amount sufficient to inhibit rancidity and deterioration.

2,638,421

PROCESS OF AGGLOMERATING PARTICLES OF WOOD AND THE PRODUCT THEREOF

Jean Paul Justin Serres, Paris, France

No Drawing. Application April 6, 1949, Serial No. 85,938. In France April 15, 1948

11 Claims. (Cl. 106—163)

10. By way of a novel article of manufacture, a mass constituted by particles of wood and the like lignin-containing material agglomerated with a mixture incorporating at least 25% of a substance selected from the group consisting of thiophen and its alkyl-substituted derivatives in which the carbon atoms of the alkyl group do not exceed eight in admixture with a liquid hydrocarbon.

2,638,422

TELEFACSIMILE RECORDING AND DUPLICATING PAPER AND METHOD OF MAKING SAME

Austin G. Cooley, New York, N. Y., and Harold R. Dalton, Jenkintown, Pa., assignors to Timefax Corporation, New York, N. Y., a corporation of New York

Original application March 24, 1942, Serial No. 435,944. Divided and this application February 10, 1951, Serial No. 210,298

8 Claims. (Cl. 117—36)



1. The method of making a recording and duplicating blank which is specially adapted to record electric signal voltages stylus-applied thereto, which comprises mixing transferable dye with electrically conductive carbon with a water soluble binder and with water, applying said mixture to the surface of a backing to form a duplicating coat of predetermined electric conductivity, drying the said mixture on said backing, mixing a pigment with a binder soluble in an organic solvent and with such organic solvent in which said dye and the first-mentioned binder are insoluble, applying the second-mentioned mixture over the first-mentioned mixture with a thinness merely sufficient to mask the color of said dye and of said carbon, and then drying said second mixture to form a non-tacky homogeneous and pigment-bonded masking coat over the first mixture which masking coat is locally removable in elemental areas in response to electric discharge produced by said stylus-applied electric signal voltages.

2,638,423

METHOD AND APPARATUS FOR CONTINUOUSLY PLATING IRREGULARLY SHAPED OBJECTS

Oliver F. Davis, Troy, and Hans G. Belitz, Dayton, Ohio, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application August 25, 1949, Serial No. 112,308

10 Claims. (Cl. 117—50)

1. A method of plating objects by the deposition of metal from heat-decomposable metal compounds which comprises the steps of conveying said objects to be plated while maintained in spaced relationship with respect to each other through a plating chamber, circulating a gaseous metal compound through said chamber, heating

said objects by contacting the same with a hot gaseous medium while the same are conveyed therealong and prior to entering said chamber, thereafter moving said objects into said plating chamber and subjecting the same to a temperature sufficient to cause decomposition of said



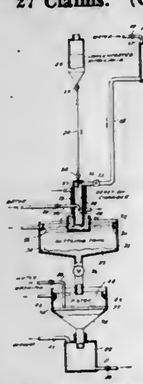
gaseous metal compound in said chamber and deposition of metal on said objects while the same are conveyed there along through said plating chamber, and subjecting said objects to an inert gaseous cooling medium after passage of the same from said chamber and before said objects are conveyed into the open atmosphere.

2,638,424

METHOD OF PROCESSING METAL POWDERS

Fritz J. Hansgirg, Black Mountain, N. C., assignor to American Electro Metal Corporation, Yonkers, N. Y.

Application February 9, 1946, Serial No. 646,554
27 Claims. (Cl. 134—3)



1. The method of cleaning light powdery particles of metal selected from the class consisting of aluminum and magnesium and having metal compound surface impurities which are removable by nitric acid, which comprises the steps of reacting upon a fluid mixture containing water and said powdery particles with concentrated nitric acid so as to remove metal compounds from the surfaces of said particles and thus produce on said particles cleaned surface layers, effectively interrupting immediately thereafter said reaction by effectively removing the powdery particles from the action of the concentrated acid, and thereafter separating said particles from the resulting mixture under conditions excluding the access of air.

2,638,425

ELECTRICAL RESISTOR ELEMENT AND METHOD OF PRODUCING THE SAME

Victor O. Allen, Madison, N. J., assignor to Wilbur B. Driver Company, Newark, N. J., a corporation of New Jersey

No Drawing. Application March 16, 1949, Serial No. 81,843
8 Claims. (Cl. 148—13.1)

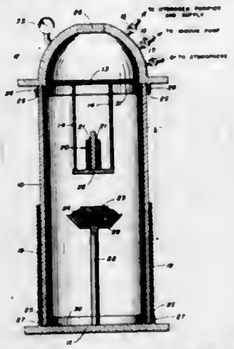
1. An electrical resistance element comprising an alloy consisting of about 3% Al, 3% Cu, 10–30% Cr, 1% each of the metals Fe and Mn, .50–1.0% Si, balance substantially nickel, that has been recrystallized annealed at a temperature approximating 1950° F. and heat-treated for a period of 1 to 3 hours at a temperature within the range 780° to 1000° F. and having a temperature coefficient below .00008.

2,638,426

METHOD FOR HEAT-TREATING METALS HAVING DIFFICULTLY REDUCIBLE OXIDES

Porter H. Brace, Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application November 17, 1949, Serial No. 127,858
10 Claims. (Cl. 148—13.1)



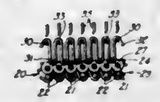
1. The process of furnace treating a metal workpiece comprising the steps of degassing the piece by evacuation of the furnace to a few microns of mercury pressure under moderate heating from 100° to 300° C., introducing a highly purified hydrogen atmosphere to a few centimeters of mercury pressure, beneficiating said atmosphere by vaporizing metallic chromium contained in said furnace under heating from 1200° to 1400° C., and then heating the workpiece to accomplish the desired furnace treatment thereof, the highly purified beneficiated hydrogen atmosphere operating to prevent the formation of a tarnish or oxide film upon the workpiece.

2,638,427

CARPET AND METHOD OF MAKING SAME

Roy M. Roberts, Arcadia, Calif., assignor to The Roberts Co., Los Angeles, Calif., a corporation of California

Application May 16, 1949, Serial No. 93,583
26 Claims. (Cl. 154—78)



1. A resilient floor covering, comprising: a pile base; and a multiplicity of resilient loops secured individually and solely by an adhesive bonding material to said base and having free ends projecting from a surface thereof.

13. A method of making a pile fabric, comprising the step of vulcanizing a multiplicity of resilient thread loops individually to a surface of a sheared pile base with the ends of the loops projecting therefrom and collectively providing a pile surface.

2,638,428

METHOD OF PRODUCING A METAL FACING ON HARDENABLE MATERIAL

James Edward Gordon, Fleet, and Cyril George Evans, Farnborough, England, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application February 21, 1949, Serial No. 77,646
In Great Britain February 23, 1948
7 Claims. (Cl. 154—96)



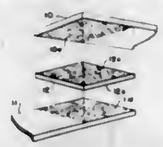
1. A method of producing a metal facing on hardenable material comprising depositing a porous metallic layer on a hard, substantially continuous form surface, placing hardenable material in contact with the metallic layer, applying pressure to the hardenable material during hardening thereof to thereby force portions of said hardenable material into pores of said metallic layer during said hardening step and subsequently separating the metal-faced hardened material from the form surface.

2,638,429

METHOD OF FORMING COMPOSITE JOINT CONSTRUCTION

Wallace M. Patterson, Penn Wynne, Pa., assignor to Kellett Aircraft Corporation, a corporation of Delaware

Application March 26, 1948, Serial No. 17,354
8 Claims. (Cl. 154—116)



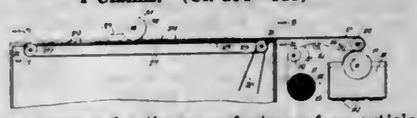
2. The method of joining a pair of adjacent elements using an expandable joining material comprising the steps of impregnating wood veneer with a phenolic resin, warming said impregnated wood veneer, compressing said impregnated wood veneer in said warm state, cooling said impregnated wood veneer in its compressed metastable state, applying an adhesive coating to said impregnated wood veneer, inserting said impregnated wood veneer in said compressed metastable state between a pair of elements to be joined, applying restraining means for confining and holding said assembly without applying external pressure, and applying heat to said assembly for the release of the expansive forces within said joining material for effecting the joining of said elements.

2,638,430

METHOD OF MAKING SURFACE-COVERING ARTICLES

Zelvern W. Mann, Chicago, Ill., assignor to The Meyercord Co., Chicago, Ill., a corporation of Illinois

Application July 6, 1950, Serial No. 172,217
4 Claims. (Cl. 154—118)



1. A process for the manufacture of an article of the type described including a tile member having a generally flat body portion with preformed peripheral lip portions extending outwardly from the plane of said body portion to define an adhesive-receiving recess at one side of said member, said process comprising the steps of coating a sheet of backing material with an adhesive layer, and pressing said tile member into the adhesive coated side of said sheet until the edges of said lip portions engage said backing sheet whereby said recess is substantially filled with an adhesive layer having a thickness extending from the body portion of said tile member substantially to the outer edges of said lip portions.

2,638,431

2-NORCAMPHANEMETHANOL AND 2-NORCAMPHANEMETHOXYETHANOL APPLIED TO PLANTS TO INHIBIT FUNGOUS GROWTHS

John B. Harry, Hastings on Hudson, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application November 30, 1950, Serial No. 198,481
3 Claims. (Cl. 167—30)

1. Method of inhibiting fungous growths within a plant which comprises applying into the conducting system of a plant subject to fungous attack, a compound of the group consisting of 2-norcamphanemethanol and 2-norcamphanemethoxyethanol in an amount effective in inhibiting the fungous growths.

2,638,432

PARA-NITRO-PHENYL-ARSONIC ACID BLACKHEAD CONTROL COMPOSITION

Neal F. Morehouse and Willis C. McGuire, Charles City, Iowa, assignors to Dr. Salsbury's Laboratories, a corporation of Iowa

No Drawing. Application November 18, 1950, Serial No. 196,516
2 Claims. (Cl. 167—53.1)

2. A composition for the control of blackhead in poultry comprising an aqueous solution containing a substance selected from the group consisting of para-nitro-phenyl-arsonic acid, water soluble salts of para-nitro-phenyl-arsonic acid, and mixtures thereof, in the approximate concentration of 0.0066% to 0.04%.

2,638,433

PHARMACEUTICAL PREPARATION FOR PEPTIC ULCERS

James T. George, Los Angeles, Calif.

No Drawing. Application November 17, 1949, Serial No. 128,010
2 Claims. (Cl. 167—55)

2. A pharmaceutical preparation which is characterized by anti-acid properties and high pro-

tein, fat and vitamin content, said preparation comprising a flour derived from cottonseed containing not more than 6.5% fat, dextrose, magnesium trisilicate and calcium carbonate.

2,638,434

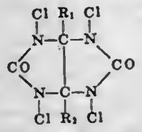
TETRACHLOROGLYCOLURIL DERIVATIVES AS CHLORINE LIBERATORS IN OINTMENTS

Homer B. Adkins, Madison, Wis., assignor to the United States of America as represented by the Secretary of the Navy

No Drawing. Application April 17, 1943, Serial No. 483,500

8 Claims. (Cl. 167—63)

1. An ointment comprising a chloramide dispersed in an anhydrous unguentary base, said chloramide including a compound having the formula:



where R_1 and R_2 are selected from the group consisting of alkyl and aryl radicals.

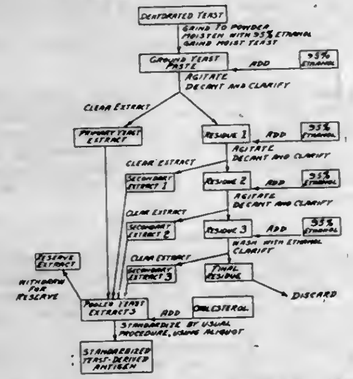
2,638,435

ANTIGEN FOR DETERMINATION OF SYPHILIS AND PROCESS OF MAKING THE SAME FROM YEAST

Paul Fugazzotto, Indianapolis, Ind.

Application November 17, 1948, Serial No. 60,626

5 Claims. (Cl. 167—84.5)



1. An antigen for use in serologic tests for syphilis, comprising yeast lipoids derived from extraction of dehydrated yeast with alcohol, with cholesterol added thereto.

2,638,436

CULTURE OF PHAGE-SENSITIVE STREPTOMYCES GRISEUS

David Perlman, Princeton, and Asger F. Langlykke, Highland Park, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Application June 11, 1949, Serial No. 98,627

6 Claims. (Cl. 195—80)

1. In the method of culturing a phage-sensitive strain of *Streptomyces griseus* in contact with a suitable culture medium to produce a metabolite of the group consisting of streptomycin and vitamin B_{12}, minimizing possibility of loss of production of said metabolite due to phage action by incorporating in the medium a phage-multiplication inhibitor of the group consisting of lactic acid, tartaric acid, gluconic acid, citric acid, oxalic acid, phytic acid, and water-soluble salts thereof, the initial molar concentration of the oxalic acid and oxalates being at least of the order of 0.003, of citric acid and the citrates being at least of the order of 0.01, and of the remaining members of the group being at least of the order of 0.03.

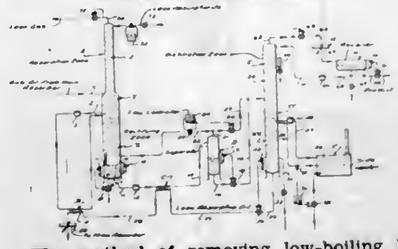
2,638,437

METHOD AND APPARATUS FOR TREATING HYDROCARBONS

Edward G. Ragatz, San Marino, Calif., assignor to Edw. G. Ragatz Co., San Marino, Calif., a partnership

Application July 30, 1951, Serial No. 239,308

11 Claims. (Cl. 196—8)



1. The method of removing low-boiling hydrocarbons from a higher-boiling hydrocarbon product in a rich absorption oil and maintaining precise control of the composition of said product including, introducing said rich oil into a rectifying zone, removing low-boiling hydrocarbons from said zone, withdrawing rectified rich oil from said zone, heating said withdrawn oil sufficiently to vaporize a portion of the absorbed hydrocarbons, separating vapors from the heated oil, returning resultant separated vapors to the rectifying zone, measuring the flow of said returned vapors, passing the separated heated oil (together with any vapors not returned to the rectifying zone) to a distillation zone, removing said higher-boiling hydrocarbon product from said distillation zone, and controlling the composition of said product by adjusting the measured flow of said vapors returned to said rectifying zone.

2,638,438

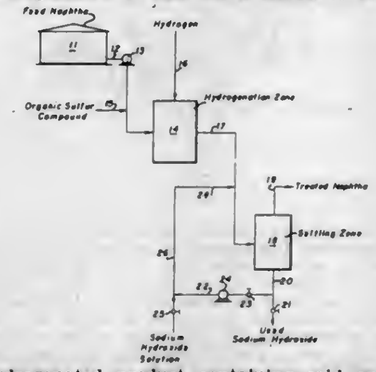
HYDROGENATION OF NAPHTHAS

Edward J. Hoffmann and Edward F. Wadley, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application September 1, 1950, Serial No. 182,649

5 Claims. (Cl. 196—28)

1. A method for hydrogenating a naphtha fraction boiling in the gasoline range containing mono- and diolefins wherein the diolefins are hydrogenated selectively which comprises adding to said naphtha fraction a caustic soluble organic sulfur compound selected from the class consisting of the aliphatic mercaptans having from 1 to 4 carbon atoms in the molecule and the thiophenols boiling up to 450° F. in an amount in the range from 0.1% to 1.0% by weight based on said naphtha, contacting the naphtha to which the organic sulfur compound has been added with a sulfur insensitive hydrogenation catalyst at a temperature in the range between 400° and 600° F. and at a pressure between 45 and 500 p. s. i. g. in the presence of hydrogen under conditions to cause selective hydrogenation of said diolefins to the substantial exclusion of hydrogenation of said mono-olefins to form a



hydrogenated product containing said organic sulfur compound and hydrogenated products of sulfur, treating said hydrogenated product with a solution of alkali metal hydroxide to remove therefrom said organic sulfur compound and hydrogenated products of sulfur and recovering said treated product.

2,638,439

TREATMENT OF PETROLEUM DISTILLATES

John G. Browder, Houston, and Alvin R. Smith, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application April 18, 1951, Serial No. 221,718

4 Claims. (Cl. 196—29)

1. A method for sweetening a sour petroleum distillate containing mercaptans and having a final boiling point no greater than 750° F. which comprises adding to said distillate a small but effective catalytic amount no greater than 1% by volume of said distillate of an organic fraction obtained by: acidifying a solution of an alkali metal salt of crude petroleum phenols to at least 75% of a methyl orange end point to release an acidic fraction therefrom, discarding said acidic fraction and retaining said solution from which acidic material has been released, acidifying the retained solution to the methyl orange end point to release said organic fraction, and then contacting the sour distillate containing the organic fraction with a catalytic amount no more than 5% by volume of a solution of an alkali metal hydroxide while adding a sufficient amount of a mild oxidizing agent to convert the mercaptans to disulfides and to obtain a sweetened distillate.

2,638,440

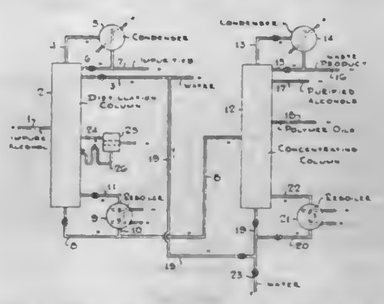
PURIFICATION OF CRUDE ALIPHATIC ALCOHOLS

William M. Drout, Jr., Linden, Carl S. Carlson, Elizabeth, Harold W. Scheeline, West Orange, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 1, 1948, Serial No. 24,626

10 Claims. (Cl. 202—39.5)

1. The method of refining a C_2 to C_5 crude aliphatic mono-hydric alcohol produced by the sulfuric acid-catalyzed hydration of a single C_2 to C_5 mono-olefin, said crude alcohol containing contaminants lower boiling and higher boiling than the alcohol but substantially free of any other alcohol close-boiling thereto, said higher boiling contaminants comprising polymer oils boiling in the range of 100° C. to 300° C., which comprises continuously feeding the crude alcohol to a fractional distillation zone at an intermediate point thereof, continuously feeding water to the fractional distillation zone at a point substantially above the crude alcohol feed point to maintain an internal liquid reflux having a water content in the range of 65 to 99.9 mol percent below the point of addition of the water, distilling from said crude alcohol a vaporous mixture comprising all but traces of the lower boiling contaminants and major portion of the higher boiling contaminants wherein the distilled vaporous mixture flows countercurrent to the aqueous reflux, at temperatures above the boiling point of the alcohol, continuously withdrawing a dilute aqueous solution of the alcohol containing traces of lower boiling contaminants and the remainder of the higher boiling contaminants from a lower portion of said fractional distillation zone, rectifying the withdrawn aqueous solution of aliphatic alcohol in a second fractional distillation zone, removing from the said second fractional distillation zone an overhead product comprising the traces of lower boiling contaminants, a top side stream consisting of refined aliphatic alcohol and a lower side stream containing the remainder of the higher boiling contaminants.



2,638,441

PROCESS OF CONTACTING HYDROCARBON MIXTURES WITH ANTIMONY TRICHLORIDE

Alan C. Nixon, Berkeley, and Carl H. Deal, Jr., Alameda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 3, 1949, Serial No. 119,392

8 Claims. (Cl. 202—39.5)

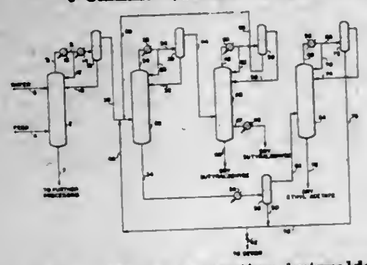
1. In the extractive distillation of a hydrocarbon mixture comprising lower alkylaromatic hydrocarbons and non-aromatics of similar boiling range, in the presence of antimony trichloride as a selective solvent, the improvement which comprises reducing substantially the decomposition of the antimony trichloride by effecting the extractive distillation in the presence of between about 0.5% and about 3% by weight, based on the antimony trichloride, of an organic basic nitrogenous compound.

2,638,442

DISTILLATION PROCESS FOR SEPARATING BUTYRALDEHYDE FROM ETHYL ACETATE

Theodore Q. Eliet, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application October 20, 1949, Serial No. 122,524
6 Claims. (Cl. 202—39.5)



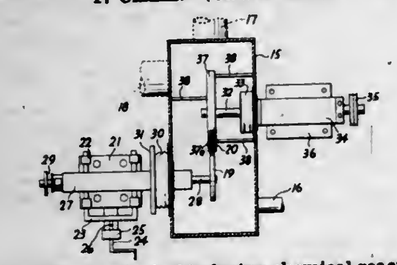
1. In a process for separating butyraldehyde from an aqueous mixture of ethyl acetate, the steps which comprise subjecting a heterogeneous mixture of butyraldehyde and ethyl acetate containing water in a concentration of from about 9 to about 35 weight per cent to fractional distillation at pressures of from about 50 to about 250 mm. and collecting an overhead of butyraldehyde-water azeotrope and a bottoms fraction of ethyl acetate and water.

2,638,443

METHOD AND APPARATUS FOR GLOW DISCHARGE TREATMENT OF GASES

Eugene P. Schoch, Austin, Tex., assignor to The Board of Regents of The University of Texas

Application October 17, 1947, Serial No. 780,428
17 Claims. (Cl. 204—171)



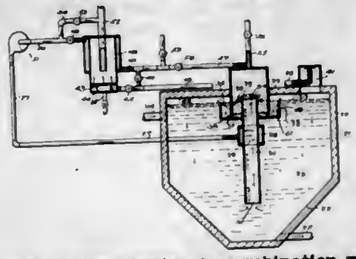
17. The method of inducing chemical reactions in non-explosive gases composed of polyatomic molecules by means of electric discharges which consists of initiating and maintaining within a reaction chamber containing such a gas under a pressure greater than one-tenth of atmosphere a continuous electric glow discharge between two bare conducting electrodes, with an average discharge path length substantially greater than $\frac{1}{4}$ inch and with a current strength greater than 5 amperes forming a discharge path of substantially constant luminosity all the way between the electrode faces, simultaneously flowing the gas through the space between the electrodes and through the discharge space at a rate in cubic feet at normal temperature and pressure per kilowatt hour which is greater than the number expressed by $535p^{1.6}$ when p expresses the pressure in atmospheres and which flow rate is to be so great that the electric current will exhibit the phenomena characteristic of a glow as herein disclosed.

2,638,444

SEWAGE DIGESTER

Stanley E. Kappe, Washington, D. C.

Application August 2, 1949, Serial No. 108,125
2 Claims. (Cl. 210—2)



1. In a sludge digester, in combination with a weir adjacent the surface of the sludge in the digester, a gas lift tube below the weir and connected therewith supplying sludge which flows over the weir and on to the sludge in the digester, a dished receptacle having an upwardly directed baffle surrounding the weir, a gas collector above the weir having a baffle extending into the space between the weir and the baffle on the dished receptacle to a level below the weir and the baffle on the dished receptacle and a separate gas collector above the sludge in the space outside the gas collector first mentioned.

2,638,445

SULFONATED HIGH MOLECULAR WEIGHT STYRENE-OLEFIN COPOLYMERS

David W. Young, Roselle, William H. Smyers, Westfield, and William J. Sparks, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 5, 1945, Serial No. 592,274
13 Claims. (Cl. 252—33)

6. Product consisting essentially of a substantially neutral barium sulfonate of a styrene-isobutylene copolymer, having a molecular weight of about 4,000 to 50,000 and an iodine number less than 10, and having a combined styrene content of about 20%, said copolymer sulfonate having surface active properties and viscosity index improving properties, and being substantially soluble in mineral lubricating oil, said copolymer sulfonate having been made by reacting 50 parts by wt. of the high molecular weight styrene-isobutylene copolymer with 15 parts by wt. of fuming sulfuric acid at 100° C., and neutralizing with barium hydroxide.

2,638,446

LUBRICANT FOR PNEUMATIC TOOLS AND THE LIKE

Jones I. Wasson, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 19, 1950, Serial No. 163,079
2 Claims. (Cl. 252—33.4)

1. A lubricant for pneumatic tools, and the like, consisting essentially of about 86 to 97 parts by weight of mineral base lubricating oil having a viscosity between 50 and 500 S. S. U. at 100° F., 1 to 3 parts of degras, 0.1 to 2 parts of oil-soluble calcium petroleum sulfonate, 1 to 5 parts of sulfurized sperm oil containing 10 to 20% of sulfur, 0.5 to 2 parts of tricresyl phosphate and 0.5 to 2 parts of polybutene of molecular weight between 10,000 and 50,000.

2,638,447

GEAR LUBRICANT

Ferdinand P. Otto and Leo W. Manley, Woodbury, and Ralph V. White, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application February 8, 1950, Serial No. 143,156
20 Claims. (Cl. 252—46.7)

1. An extreme pressure lubricating composition comprising a major proportion of a mineral lubricating oil and minor proportions of addition agents as follows: (a) from about 1% to about 10% of a product obtained by chemically substituting a part only of the chlorine in a chlorinated aliphatic hydrocarbon material having from 2 to about 24 carbon atoms with a thiocarbonate group, (b) from about 0.1% to about 3% of dihydroabietyl malate and (c) from about 0.1% to about 1.5% of the reaction product formed by reacting 3 moles of an alkylated phenol with about 1 mole of phosphorus pentoxide, at a temperature of from about 75° C. to about 125° C.

2,638,448

MINERAL OIL

Joseph J. Wehrle, Clarksboro, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application February 14, 1950, Serial No. 144,201
10 Claims. (Cl. 252—46.7)

1. A mineral lubricating oil containing an amount sufficient to improve the oxidation characteristics thereof of the reaction product obtained by reacting a monohydric reactant selected from the group consisting of alkanethiols having between about 6 and about 24 carbon atoms per molecule and allphatic alcohols having between about 6 and about 24 carbon atoms per molecule, and a phosphorus halide, in a molar proportion varying between about 0.5:1, respectively, and about 2.5:1, respectively, at a temperature of between about 0° C. and about 150° C., and for between about 3 hours and about 10 hours, to produce an intermediate product, and reacting a thiophenethiol with said intermediate product, in a molar proportion of said thiophenethiol to said phosphorus halide used to produce said intermediate product varying between about 2.5:1, respectively, and about 0.5:1, respectively, at a temperature of between about 0° C. and about 150° C., and for between about 3 hours and about 10 hours; the sum of the number of moles of said monohydric reactant and of said thiophenethiol so reacted with each mole of said phosphorus halide being three moles.

2,638,449

REACTION PRODUCTS OF FATTY ACIDS, DIALKANOLAMINES, AND ALKENYL SUCCINIC ACID ANHYDRIDES

Ralph V. White, Pitman, and Henry D. Norris, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application December 30, 1949, Serial No. 136,158
20 Claims. (Cl. 252—51.5)

1. A corrosion-inhibiting composition which comprises a substantially neutral vehicle containing between about 0.01 per cent and about 50 per cent, by weight, of the final reaction product obtained by initially reacting a fatty acid containing at least about five carbon atoms per molecule with a dialkanolamine having between two and seven carbon atoms per alkanol radical, in a molar proportion of about 1:1, respectively, at a temperature of between about 130° C. and about 160° C. to produce an intermediate product, and then reacting an alkenyl succinic acid anhydride with said intermediate product, in a molar proportion varying between about 1:1, respectively, and about 2:1, respectively, at a temperature of between about 110° C. and about 130° C.

2,638,450

REACTION PRODUCTS OF N-ALKYLATED POLYALKYLENEPOLYAMINES AND ALKENYL SUCCINIC ACID ANHYDRIDES

Ralph V. White, Pitman, and Phillip S. Landis, Glassboro, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application January 17, 1950, Serial No. 139,124
17 Claims. (Cl. 252—51.5)

1. A corrosion-inhibiting composition which comprises a substantially neutral vehicle containing between about 0.003 per cent and about 50 per cent by weight of the reaction product obtained by reacting an alkyl monohalide having between eight and eighteen carbon atoms per molecule with a polyalkylenepolyamine having one more nitrogen atom per molecule than there are alkylene groups in the molecule, in a molar proportion varying between about one and about $(x-1)$ to one, respectively, wherein x represents the number of nitrogen atoms in the polyalkylenepolyamine molecule, at a temperature of between about 100° C. and about 250° C., for a period of time varying between about 6 hours and about 10 hours, to produce an intermediate product, and reacting an alkenyl succinic acid anhydride having between two carbon atoms and twelve carbon atoms per alkenyl radical, with said intermediate product, in a molar proportion varying between about $(x-1)$ and about one to one, respectively, at a temperature of between ambient temperatures and about 150° C., for a period of time varying between several minutes and about 10 hours; the sum of the number of moles of said alkyl halide and of said alkenyl succinic acid anhydride reacted with each mole of said polyalkylenepolyamine being no greater than x.

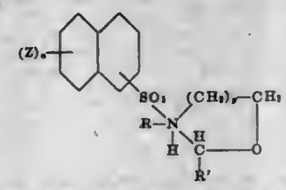
2,638,451

PROCESS FOR RESOLVING EMULSIONS USING AZOLIDINE SALTS OF ALKYLATED NAPHTHALENE SULFONIC ACIDS

William B. Hughes, Bartlesville, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware

No Drawing. Application January 31, 1950, Serial No. 141,598
8 Claims. (Cl. 252—338)

1. The process of resolving emulsions including subjecting a petroleum water-in-oil emulsion to the action of a compound having the generic formula



in which Z is an isopropyl radical, n is a whole number from 1 to 4, y is a whole number less

than 4, R is a member of the class consisting of alkanol radicals and hydrogen atoms, and R' is a member of the class consisting of alkyl radicals and hydrogen atoms.

2,638,452

PROCESS FOR MAKING SYNTHESIS GAS WITH A 1:1 RATIO H_2 TO CO

Bertrand J. Mayland and S Grant Stewart, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application October 18, 1948, Serial No. 55,176
13 Claims. (Cl. 252—373)

1. A process for manufacturing carbon monoxide and hydrogen synthesis gas, which comprises reacting methane with oxygen in a mol ratio of 1:1 to 1.5:1 at a temperature in the range of 2000 to 2700° F. and a contact time in the range of 0.02 to 2 seconds and thereby oxidizing said methane, rapidly quenching reaction products to a temperature of 1200° F. to limit the reaction time within said time range to a value such that appreciable reaction between steam formed by the reaction and methane cannot occur, and recovering carbon monoxide and hydrogen synthesis gas in a mol ratio of about 1:1 as a product of the process.

2,638,453

ALKALINE EARTH FLUORIDE TREATMENT OF USED CRACKING CATALYSTS

Charles E. Starr, Jr., Don R. McAdams, and Julius P. Bilisoly, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 23, 1949, Serial No. 117,498
6 Claims. (Cl. 252—411)

1. A method of revivifying silica-alumina cracking catalyst which has been used in repeated hydrocarbon cracking and regeneration operations and which has become partially deactivated which comprises treating the partially deactivated catalyst with a small amount of an alkaline earth metal fluoride to add about 1–5% by weight of the alkaline earth metal fluoride to the cracking catalyst to improve the activity and selectivity of such catalyst.

2,638,454

CATALYST PREPARATION

Robert Rowan, Jr., Silver Spring, Md., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 22, 1950, Serial No. 180,903
8 Claims. (Cl. 252—455)

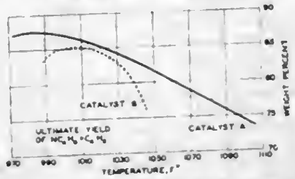
1. The method of producing a hydroforming catalyst which comprises impregnating alumina trihydrate of low sodium content with a solution of water soluble heat decomposable compounds of molybdenum and of an iron group metal of the class consisting of cobalt, iron and nickel, heating the impregnated mass for a period of about 4–8 hours at a temperature of about 1100°–1200° F. to convert said compounds into an oxidic compound of molybdenum with said metal, of the type of a molybdate of said metal and to activate the composite, thereafter mixing the activated composite with a plastic clay of low sodium content, in such proportions as to provide a final catalyst composition which contains from about 5–25 weight per cent of a molybdate of said iron group metal and about 5–25% by weight of clay, and activating the mixture by heating the product for about 4–8 hours at about 1100°–1200° F.

2,638,455

ALUMINA-METAL OXIDE DEHYDROGENATION CATALYST AND ITS PREPARATION

Emory W. Pitzer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 14, 1948, Serial No. 32,834
19 Claims. (Cl. 252—465)



1. A process for manufacturing a composite catalyst consisting essentially of the oxides of aluminum and at least one of the metals selected from the group consisting of Cr, Mo, W, U, and V, which comprises digesting a mixture of said oxides with nitric acid; heating the digested mixture so as to completely dry the same and decompose any nitrates therein; and forming the resulting oxide composite into suitable particles for contacting operations.

16. A catalyst manufactured by the process of claim 1, consisting essentially of between 10 and 70 per cent by weight of at least one oxide from the group consisting of Cr, Mo, W, U, and V oxides and the balance aluminum oxide.

2,638,456

PLASTIC COMPOUND CONTAINING SYNTHETIC RUBBER AND ANTHRACITE COAL

Edwin R. Laning, Langhorne, Pa., assignor to The Stokes Molded Products, Inc., a corporation of New Jersey

No Drawing. Application June 9, 1949, Serial No. 98,155
4 Claims. (Cl. 260—5)

1. A composition of matter including a butadiene-styrene copolymer and powdered anthracite coal of size which will pass through an 80-mesh screen in parts above ten times the parts of said copolymer, sulphur in an amount sufficient to cure said copolymer and a plasticizer for said copolymer, said plasticizer having the following characteristics:
Viscosity at 100° F., 5800 cs.
Initial boiling point, °F. over 600 (over 400 at 1 mm.)
Specific gravity, 20/4 C., 1.016
Bromine No. (g. Br/100 g.), 26

2,638,457

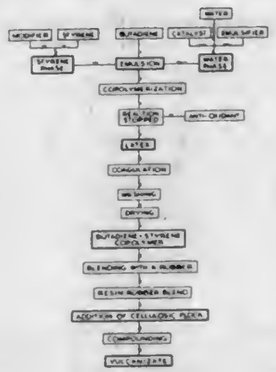
SHOE SOLE COMPOSITION

George H. Gates, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application October 2, 1945, Serial No. 619,876
7 Claims. (Cl. 260—17.4)

1. A composition in sheet form comprising a filler including about 10 to about 25 parts of a cellulosic flock material together with a substantial and effective amount of mineral filler, and as a binder therefor the vulcanizate resulting from the vulcanization of (1) a rubbery copolymer of a major proportion of butadiene and a minor proportion of styrene, (2) 25 to 100 parts of a hard, thermoplastic resin obtained by copolymerizing a mixture of 70–95 weight percent

of styrene and 30–5 weight percent of butadiene in aqueous emulsion in the presence of a substance which promotes the solubility of the resulting resin in benzene and selected from the group consisting of mercaptans containing at least six



carbon atoms, dialkyl polysulfides, and dialkyl xanthogen polysulfides, and (3) sulfur as a vulcanizing ingredient for the binder, the parts being by weight per 100 parts by weight of rubbery copolymer.

2,638,458

HYDROGENATED PHENOLIC RESIN ESTERS

Donald H. Wheeler, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

No Drawing. Application May 4, 1950, Serial No. 160,094
8 Claims. (Cl. 260—19)

1. An ester of a hydrogenated phenol formaldehyde resin, said resin containing before hydrogenation an average of from about 4 to about 10 phenolic groups per molecule, the hydroxyl groups of the resin being esterified at least partially by means of an unsaturated higher fatty acid ester having at least semi-drying characteristics.

2,638,459

METHOD OF PREPARING PETROLEUM WAX COMPOSITIONS CONTAINING A SMALL AMOUNT OF A POLYETHYLENE

John R. Bowman and William P. Ridenour, Pittsburgh, Pa., and June Hollenback Whittaker, Lombard, Ill., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application December 4, 1950, Serial No. 199,154
9 Claims. (Cl. 260—28.5)

5. A method for preparing an improved paraffin wax comprising melting together solid polymerized ethylene and paraffin wax in approximately equal quantities, mixing until homogeneous, and subsequently adding thereto a quantity of molten paraffin wax such that the amount of polymerized ethylene in the combined wax and polymerized ethylene composition is from 0.001 to 7 per cent.

2,638,460

BUTADIENE POLYMERS AS ELASTOMER ADDITIVES

Willie W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 2, 1951, Serial No. 204,069
11 Claims. (Cl. 260—33.6)

8. A rubber-like, sulfur vulcanizable composition comprising a rubber-like vulcanizable organic elastomer selected from the group consisting of natural rubber and synthetic polymers of conjugated diolefins; and a liquid polymer prepared from monomers consisting of a 1,3-butadiene selected from the group consisting of 1,3-butadiene and 2-methyl-1,3-butadiene, said liquid polymer being prepared by mass polymerization in the presence of a catalyst selected from the group consisting of alkali metals and alkali metal hydrides in an amount not exceeding two parts by weight of the total monomers charged and having a particle size less than 200 microns at a temperature in the range from 60 to 110° C.

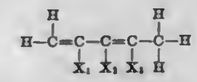
2,638,461

PENTADIENE POLYMERS AS ELASTOMER ADDITIVES

Willard M. St. John, Jr., Borger, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 2, 1951, Serial No. 204,079
11 Claims. (Cl. 260—33.6)

8. A rubber-like, sulfur vulcanizable composition comprising, a rubber-like vulcanizable organic elastomer selected from the group consisting of natural rubber and synthetic polymers of conjugated diolefins; and a viscous liquid polymer prepared from monomers consisting of pentadienes of the formula



where X_1 is selected from the group consisting of hydrogen and a methyl radical, X_2 is selected from the group consisting of hydrogen and a methyl radical and X_3 is selected from the group consisting of hydrogen and a methyl radical.

2,638,462

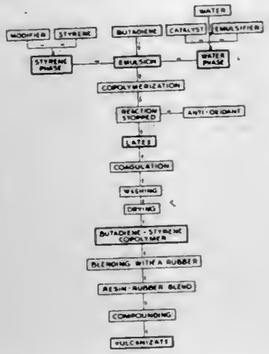
COMPOSITIONS COMPRISING BLENDS OF RUBBERY AND RESINOUS BUTADIENE-STYRENE COPOLYMERS

Alvin M. Borders, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application October 2, 1945, Serial No. 619,875
10 Claims. (Cl. 260—45.5)

2. An unvulcanized vulcanizable composition of matter comprising 90–50 parts of a rubbery copolymer of a major proportion of butadiene of a minor proportion of styrene in admixture with 10–50 parts of a hard, thermoplastic resin obtained by copolymerizing a mixture of 70–95 weight percent of styrene and 30–5 weight percent of butadiene in aqueous emulsion in the presence of a substance which promotes the solubility of the resulting resin in benzene and

selected from the group consisting of mercaptans containing at least 6 carbon atoms, dialkyl poly-



sulfides, nitro diaryl polysulfides and dialkyl xanthogen disulfides.

2,638,463

POLYMERS FROM PYRROLIDONE

William O. Ney, Jr., Providence, William R. Nummy, Warren, and Carl E. Barnes, Gloucester, R. I., assignors to Arnold, Hoffman & Co., Incorporated, Providence, R. I., a corporation of Rhode Island

No Drawing. Application December 7, 1951, Serial No. 260,558

6 Claims. (Cl. 260—78)

1. Polypyrrolidone.

2,638,464

POLYMERIZATION OF VINYLIDENE COMPOUNDS IN THE PRESENCE OF A CATALYST COMPOSITION COMPRISING DIMETHYLHALOPHENYLHYDROPEROXYMETHANE

William B. Reynolds, John E. Wicklatz, and Thomas J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 16, 1949, Serial No. 133,466

11 Claims. (Cl. 260—84.1)

1. An improved process for the production of synthetic rubber, which comprises establishing and maintaining at a polymerization temperature between 10 and —40° C. an emulsion of an aqueous phase having a pH between 9 and 12, a liquid monomeric material comprising a major amount of 1,3-butadiene and a minor amount of styrene, an alkali metal soap emulsifying agent, an alkyl mercaptan having between eight and sixteen carbon atoms per molecule, and a polymerization catalyst composition comprising 0.1 to 10 millimols of dimethyl(chlorophenyl) hydroperoxymethane together with 0.1 to 3 millimols of an alkali metal ferrous pyrophosphate complex and a reducing sugar, said parts being parts by weight per 100 parts of said monomeric material.

2,638,465

COPOLYMERS OF STYRENE AND ALPHA-METHYL STYRENE AND PROCESS FOR MAKING THE SAME

James L. Amos and Carroll T. Miller, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application January 3, 1950, Serial No. 136,584

4 Claims. (Cl. 260—88.1)



1. A process for making a copolymer of styrene and alpha-methyl styrene which comprises heating a mixture consisting of from 10 to 50 per cent by weight of alpha-methyl styrene and from 90 to 50 per cent of styrene in bulk to a polymerization temperature not greater than that defined by the equation:

$$t=147-0.78x$$

wherein t represents temperature in degrees centigrade and x is the per cent by weight of alpha-methyl styrene in the polymerizable starting materials, until a viscous solution of copolymer in monomers is obtained, the said copolymer having an average molecular weight such that a 10 weight per cent solution of the same in toluene has an absolute viscosity of at least 18 centipoises at 25° C., feeding the solution into a zone of reduced pressure wherein the copolymer is heated to a temperature between 240° and 280° C. at an absolute pressure of less than 50 millimeters for a time not greater than 60 minutes while vaporizing volatile ingredients therefrom to leave a copolymer residue containing less than 1 per cent of methanol soluble substances, separately withdrawing vapors of the volatile ingredients and the heat-plastified copolymer from the zone of reduced pressure and cooling the copolymer.

2,638,466

COPOLYMERS OF STYRENE AND ALPHA-METHYL STYRENE AND PROCESS FOR MAKING THE SAME

James L. Amos and Carroll T. Miller, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Original application January 3, 1950, Serial No. 136,584. Divided and this application August 20, 1952, Serial No. 305,444

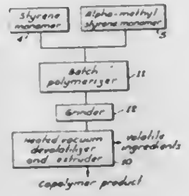
2 Claims. (Cl. 260—88.1)

1. A process for making a copolymer of styrene and alpha-methyl styrene which comprises heating a mixture consisting of from 10 to 50 per cent by weight of alpha-methyl styrene and from 90 to 50 per cent of styrene to a polymerization temperature between 70° C. and a temperature defined by the equation:

$$t=147-0.78x$$

wherein t represents temperature in degrees

centigrade and x is the per cent by weight of alpha-methyl styrene in the polymerizable starting materials, until a solid polymeric product is obtained, the said polymeric product comprising a copolymer of styrene and alpha-methyl styrene having an average molecular weight such that a 10 weight per cent solution of the copolymer in toluene has an absolute viscosity of at least 18 centipoises at 25° C., comminuting the solid polymeric product, heating the granular poly-



meric product to a temperature between 240° and 280° C. over a period of time of less than 60 minutes while feeding the heated polymeric product into and from a zone of reduced pressure wherein it is formed into thin streams which are subjected to an absolute pressure of less than 25 millimeters to vaporize volatile ingredients and leave a copolymer residue containing less than 1 per cent of methanol soluble substances, separately withdrawing vapors of the volatile ingredients and the heat-plastified copolymer from the zone of reduced pressure and cooling the copolymer.

2,638,467

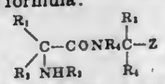
PROCESS FOR THE MANUFACTURE OF ORGANIC NITROGEN-CONTAINING COMPOUNDS

Ian Heilbron, Arthur Herbert Cook, and Anthony Lewis Levy, London, England, assignors to Beecham Research Laboratories Limited, London, England, a British company

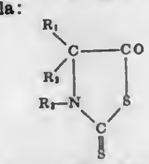
No Drawing. Application January 21, 1949, Serial No. 72,064. In Great Britain January 26, 1948

4 Claims. (Cl. 260—112)

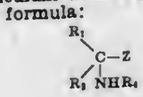
1. A process for the manufacture of amides of the general formula:



which comprises reacting a compound of the general formula:



in a basic medium with a glycine derivative of the general formula:



wherein R_1, R_2, R_3 and R_4 are each selected from the group consisting of hydrogen and unsubstituted hydrocarbon residues, and Z is selected from the group consisting of carboxyl, esterified carboxyl, amide, substituted amide and nitrile groups, followed by acidification of the reaction mixture.

2,638,468

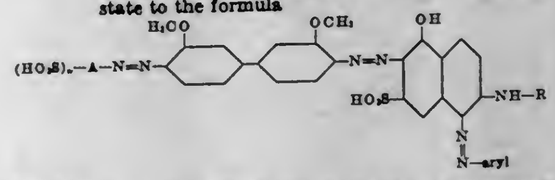
COPPER-CONTAINING AZO DYESTUFFS

Walter Wehrli, Basel, Switzerland, assignor to Sandoz Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application January 16, 1951, Serial No. 206,311. In Switzerland August 24, 1944

6 Claims. (Cl. 260—145)

1. The copper complex compound of a trisazo dyestuff which corresponds in its copper-free state to the formula



in which A stands for the radical of a compound of the napthalene series having a hydroxy group in ortho position to the azo bridge, R stands for a member selected from the group consisting of hydrogen, lower alkyl and a mononuclear radical of the benzene series, aryl stands for a radical selected from the group consisting of the benzene and naphthalene series and wherein n is one of the integers one to three.

2,638,469

PROCESS FOR ALGINIC ACID SULFATE PRODUCTION

Harvey E. Alburn, Philadelphia, Pa., assignor, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

Application May 19, 1950, Serial No. 163,073

8 Claims. (Cl. 260—209.6)

1. In a process of producing an alginic acid sulfate composition having a restricted content of very high-polymer and very low-polymer molecular species, in which process alginic acid is sulfated, the improved steps which comprise: prior to sulfation partially depolymerizing alginic acid by exposing it to a liquid depolymerizing medium containing at least a small amount of water at a temperature in the approximate range 25°–115° C. for a time sufficient to substantially reduce the viscosity of an aqueous solution of a sodium salt thereof, isolating the partially depolymerized alginic acid, sulfating the so isolated alginic acid to form a sulfate ester, forming a water-soluble salt of the ester, and fractionating the salt by selective precipitation from aqueous solution by means of a neutral oxygen-containing organic liquid precipitant miscible with water, discarding a first fractional precipitate and collecting a middle fraction, whereby a salt is obtained having a restricted content of very high-polymer and very low-polymer molecular species, a high blood-anticoagulant effect and low toxicity.

2,638,470

PROCESS FOR THE PRODUCTION OF ALGINIC ACID SULFATE

Harvey E. Alburn, Philadelphia, Pa., assignor, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

Application May 19, 1950, Serial No. 163,074
7 Claims. (Cl. 260—209.6)

1. In a process of producing an alginic acid sulfate composition having a restricted content of very high-polymer and very low-polymer molecular species, in which process alginic acid is sulfated, the improved steps which comprise: sulfating alginic acid to produce a sulfate ester, partially depolymerizing the sulfate ester by exposing it to a liquid depolymerizing medium containing at least a small amount of water at a temperature in the approximate range 31°–122° C. for a time sufficient to substantially reduce the viscosity of an aqueous solution of a sodium salt thereof, isolating the partially depolymerized alginic acid sulfate as a water-soluble salt and fractionating the salt by selective precipitation from aqueous solution by means of a neutral oxygen-containing organic liquid precipitant miscible with water, discarding a first fractional precipitate and collecting a middle fraction, whereby a salt is obtained having a restricted content of very high-polymer and very low-polymer molecular species, a high blood-anticoagulant effect and low toxicity.

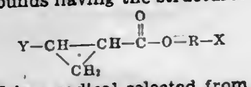
2,638,471

THIENYL AND PYRIDYL ESTERS

Alfred Burger, Charlottesville, Va., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application June 15, 1948, Serial No. 33,220
6 Claims. (Cl. 260—247.2)

1. Compounds having the structure:



in which Y is a radical selected from the group consisting of 2-thienyl and 2-pyridyl; R is an alkylene group of not more than 3 carbon atoms, and X is selected from the group consisting of piperidino, morpholino and lower dialkyl amino groups.

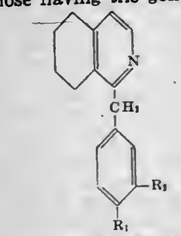
2,638,472

1-BENZYL-5,6,7,8-TETRAHYDROISOQUINOLINE AND DERIVATIVES THEREOF

Rudolf Grewe, Kiel, Germany, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application August 12, 1950, Serial No. 179,085. In Germany August 26, 1949
8 Claims. (Cl. 260—286)

1. A compound selected from the group consisting of those having the general formula



wherein R_1 and R_2 are selected from the group consisting of hydrogen, hydroxy and alkoxy radicals and salts thereof.

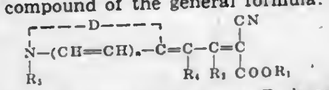
2,638,473

METHINE DYESTUFFS

Harry Derek Edwards, Ilford, England, assignor to Ilford Limited, Ilford, England, a British company

No Drawing. Application September 22, 1949, Serial No. 117,268. In Great Britain October 2, 1948
11 Claims. (Cl. 260—304)

1. A compound of the general formula:



where R_1 and R_2 are alkyl groups, R_4 is selected from the class consisting of the hydrogen atom and alkyl groups, R_5 is selected from the class consisting of alkyl and aralkyl groups D is selected from the class consisting of the residues of five-membered and six-membered heterocyclic nitrogen nuclei of the type used in cyanine dyes, and n is selected from nought and one.

2,638,474

PROCESS FOR PREPARING MONOHYDROXYTHIOPHENE

Kenneth L. Kreuz, Fishkill, N. Y., and Charles D. Hurd, Evanston, Ill., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application August 27, 1948, Serial No. 46,555
4 Claims. (Cl. 260—332.3)

1. A method for preparing hydroxythiophene compounds which comprises reacting thienylmagnesium halide alkylmagnesium halide and oxygen and hydrolyzing the product thereby obtained.

2,638,475

SPRAY COOLED PRODUCT AND PROCESS

John Ross, Ramsey, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application October 6, 1948, Serial No. 53,141
5 Claims. (Cl. 260—398.5)

1. A spray-cooled organic composition comprising solid pellets made up essentially of a normally solid partial ester of a fatty acid and an aliphatic polyhydroxy alcohol and containing a minor proportionate amount of a stabilizer consisting of an hydroxy aromatic derivative compound having a single benzene nucleus and an alkyl radical having up to 5 carbon atoms, said stabilizer amounting to 0.01 to 5% by weight of the spray cooled ester product and being uniformly distributed throughout each pellet.

2,638,476

METHOD OF REFINING OILS WITH "VERSENE"

Edward M. James, Winchester, Mass., assignor to Lever Brothers Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 9, 1950, Serial No. 178,546
9 Claims. (Cl. 260—425)

1. A process of refining a fatty glyceride stock which comprises treating the stock with aqueous alkali solution in an amount at least sufficient to neutralize free fatty acids contained in the stock in the presence of not over 1.0% of an organic amino-carboxylic acid compound selected from the group consisting of tetra alkali metal salts of ethylene diamine tetraacetic acid, tri alkali metal salts of trimethylamine tricarboxylic acid and di alkali metal salts of alkyl and aryl iminodiacetic acids to reduce refining losses, and then separating soapstock from the refined oil.

2,638,477

HYDROCARBON SYNTHESIS

Charles W. Montgomery and William A. Horne, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application October 4, 1949, Serial No. 119,567
3 Claims. (Cl. 260—449.6)

1. A process for the synthesis of gasoline hydrocarbons which comprises passing a synthesis gas mixture containing carbon monoxide and hydrogen over an iron catalyst maintained in a non-fluidized fixed bed under synthesis conditions including a temperature in the range 500° to 700° F., separately recovering gases and normally liquid hydrocarbons including gasoline hydrocarbons from the resulting products, recycling the recovered gases together with fresh synthesis gas in a substantially constant volume ratio of recycled gases to fresh synthesis gas within the range of 5:1 to 50:1 over the catalyst under the aforesaid synthesis conditions, interrupting the flow of synthesis gas over the catalyst prior to an increase in pressure drop across the catalyst bed in excess of that expressed by the equation:

$$p=\frac{40A}{B}$$

wherein p=the increase in pressure drop in pounds per square inch over the pressure drop at the beginning of the cycle, A=volumes of fresh synthesis gas per hour, and B=volumes of recycle gas per hour, burning off carbon from the catalyst with an oxygen-containing gas at a temperature below that at which sintering of the catalyst occurs, and passing a synthesis gas mixture containing carbon monoxide and hydrogen over the burned off catalyst as aforesaid.

2,638,478

PHOSPHORUS-CONTAINING DERIVATIVES OF M-AMINO-PHENOLS

Alexander Lang Morrison and Frank Ratcliffe Atherton, Welwyn Garden City, England, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 3, 1950, Serial No. 159,858. In Great Britain May 4, 1949
6 Claims. (Cl. 260—461)

1. A compound selected from the group consisting of m-dimethylaminophenyl-di-lower alkyl phosphates and the quaternary ammonium salts thereof.

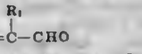
2,638,479

METHOD FOR THE PREPARATION OF ESTERS OF BETA-OXY ALDEHYDES

Seaver A. Ballard, Orinda, and Bradford P. Geyer, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 3, 1949, Serial No. 69,067
9 Claims. (Cl. 260—468)

1. Process for the production of an ester of an oxyaldehyde, which process comprises heating in liquid state in a confined reaction zone a mixture comprising as the only reactants an unsaturated aldehyde of the formula



in which each R_1 represents one of the class consisting of hydrogen, lower saturated hydrocarbon and monocyclic aromatic hydrocarbon and from about the stoichiometric equivalent of said unsaturated aldehyde to about 10 moles per mole of said unsaturated aldehyde of a carboxylic acid of the formula R—COOH in which R represents a member of the class consisting of hydrogen, aliphatic hydrocarbon, cycloaliphatic hydrocarbon, and aromatic hydrocarbon, in the presence of a phenolic polymerization inhibitor at a temperature of from about 50° C. to about 250° C. for a time up to about 12 hours to produce ester of said carboxylic acid with the beta-hydroxy alpha,beta-saturated aldehyde having the same number and arrangement of carbon atoms as said unsaturated aldehyde.

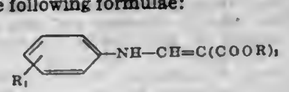
2,638,480

PROCESS OF PREPARING ARYLAMINOMETHYLENEMALONATES

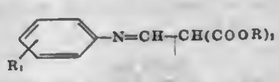
Samuel A. Glickman, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 31, 1951, Serial No. 264,352
5 Claims. (Cl. 260—471)

1. The process of preparing arylaminomethylenemalonates selected from the class consisting of the following formulae:



and



wherein R represents a lower alkyl group, and R_1 represents a member selected from the class consisting of halogen, lower alkyl, lower alkylamino, and lower alkoxy radicals, which comprises heating a mixture of a lower alkyl N-arylformimidate and a lower dialkyl malonate in the presence of a basic catalyst, distilling the reaction mixture to remove unreacted components, and isolating the arylaminoethylenemalonate.

2,638,481

MALEIC ACID MANUFACTURE

Julius Ernest Nachod, Jr., Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application May 26, 1950, Serial No. 164,411
10 Claims. (Cl. 260—533)

1. A process for continuously recovering maleic values from the hot gases resulting from the vapor phase partial oxidation of benzene which comprises quenching the hot gases by spraying water therein at a gas temperature of at least 300° C., condensing maleic values from the cooled gases in the form of an aqueous solution or slurry of maleic acid, and separating the gas phase from the nongaseous phases, the water introduced in the quenching step being introduced at a rate sufficient to effect the condensation above referred to.

2,638,482

PRODUCTION OF CYCLOHEXANONE OXIME

Christoph Grundmann, Columbus, Ohio, assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application July 15, 1952, Serial No. 299,019. In Germany January 25, 1951

4 Claims. (Cl. 260—566)

1. A process for the manufacture of cyclohexanone oxime comprising reacting nitrocyclohexane and ammonia in the presence of a nickel catalyst under elevated conditions of temperature and pressure.

2,638,483

CRYSTALLINE β-IONONE

Thomas G. Drustrup, Groton, Conn., assignor to Chas. Pfizer & Co., Inc., Brooklyn, N. Y., a corporation of Delaware

No Drawing. Application February 14, 1951, Serial No. 210,985

4 Claims. (Cl. 260—586)

1. A process for the purification of β-ionone contaminated with pseudo-ionone and α-ionone, which comprises dissolving the crude β-ionone in an organic solvent, lowering the temperature ot the solution to at least about —35° C., and recovering the β-ionone crystals so produced.

2,638,484

PREPARATION OF AN OCTENONE

Walter Kimel, Highland Park, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Original application June 5, 1951, Serial No. 230,075. Divided and this application February 14, 1952, Serial No. 271,644

2 Claims. (Cl. 260—595)

2. A process of preparing 2-methyl-hepten-2-one-6 which comprises heating t-vinylisopropyl acetoacetate to eliminate carbon dioxide therefrom.

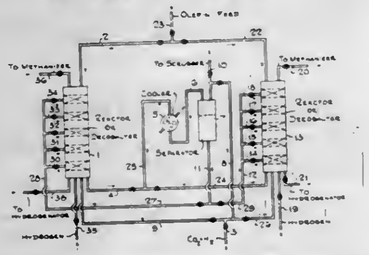
2,638,485

DECOBALTING OPERATION IN ALDEHYDE SYNTHESIS

Joseph K. Mertzweiller, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 10, 1948, Serial No. 20,203

8 Claims. (Cl. 260—604)



1. In a continuous carbonylation process wherein carbon compounds containing olefinic double bonds, carbon monoxide and hydrogen are contacted in an initial reaction zone with an active carbonylation metal catalyst under conditions to produce reaction products comprising oxygenated olefinic compounds containing at least one more carbon atom than said carbon compounds and wherein catalyst metal compounds are dissolved in said reaction products, and the solution comprising said reaction products and the therein dissolved catalyst metal compounds is transferred to a catalyst removal zone wherein said dissolved catalyst metal compounds are removed and catalyst metal is deposited on at least one stationary bed of solid carrier material under catalyst removal conditions from said reaction products, the improvement which comprises maintaining a plurality of spaced zones within the single confined space defined respectively by said reaction and catalyst removal zones, maintaining a temperature of about 250° to 400° F. in said reaction zone, and injecting said solution comprising said products and dissolved catalyst metal compounds at more than one of a plurality of injection points spaced in the direction of the flow of said reaction products through said catalyst removal zone.

2,638,486

CHEMICAL COMPOSITION

Max Eugene Chiddix, Easton, Pa., and Stanley Hall Hesse, Phillipsburg, and Edwin James Seiferle, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application May 3, 1951, Serial No. 224,442

3 Claims. (Cl. 260—619)

1. A process for preparing 2,2'-ethylidenebis 3,5,6-trichlorophenol which comprises reacting 2,4,5-trichlorophenol and acetaldehyde yielding substance in the presence of a substantially anhydrous alkaline catalyst.

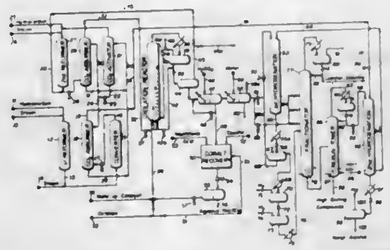
2,638,487

PRODUCTION OF HIGH ALCOHOLS BY IMPROVED OXO PROCESS

Leonard W. Russum, Highland, and Robert J. Hengstebeck, Valparaiso, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application September 13, 1951, Serial No. 246,368

11 Claims. (Cl. 260—638)



1. The method of making alcohols which comprises reacting an olefin having in the range of 3 to 15 carbon atoms per molecule with a carbon monoxide-hydrogen gas having a mol ratio of about 1:1 in the presence of an oil-soluble cobalt salt dissolved in a hydrocarbon solvent in a reaction zone under pressure of about 2500 to 4000 pounds per square inch at a temperature of about 250° to 400° F., cooling the effluent stream from said reaction zone and separating gas from the cooled stream, recycling at least a portion of said cooled stream at spaced points above the bottom of the reaction zone and recycling at least a portion of said separated gas to the bottom of said reaction zone for removing exothermic heat of reaction therein, washing cobalt from the remaining liquid stream with sulfuric acid to form a cobalt sulfate extract, separating said extract from said product stream, reacting said extract with an alkali metal hydroxide solution and an oil-soluble acid in the presence of a liquid hydrocarbon whereby an oil-soluble cobalt salt is reformed and dissolved in said hydrocarbon as a catalyst solution and alkali metal sulfate is formed, separating said alkali metal sulfate and any unreacted alkali metal hydroxide from the catalyst solution, returning said catalyst solution to said reaction zone, and hydrogenating at least a portion of the acid-washed stream to convert aldehydes contained therein to alcohols.

2,638,488

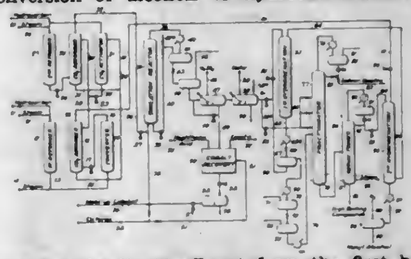
PRODUCTION OF HIGH ALCOHOLS BY IMPROVED OXO PROCESS

William J. Cerveny, Lansing, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application September 13, 1951, Serial No. 246,433

12 Claims. (Cl. 260—638)

1. The method of hydrogenating aldehydes in a liquid stream which also contains lower boiling olefins and cobalt catalyst, which method comprises first freeing said stream from cobalt catalyst, then hydrogenating said stream in the presence of a cobalt-on-pumice catalyst containing about 3% to 15% cobalt in a first hydrogenation zone at a temperature of about 350 to 550° F. and under a pressure in the range of about 500 to 3000 p. s. i. g., with a hydrogenation gas containing an amount of carbon monoxide in the range of about .2 to 3% and sufficient to inhibit hydrogenation of olefins and conversion of alcohols to hydrocarbons, fractionating the liquid effluent from the first hydrogenation step to remove therefrom components which are lower boiling and higher boiling than hydrogenated aldehydes and subsequently hydrogenating the fraction of the hydrogenated aldehyde boiling range with a hydrogen gas which contains a smaller per cent of carbon monoxide than the hydrogenating gas employed in the first hydrogenation step.



ELECTRICAL

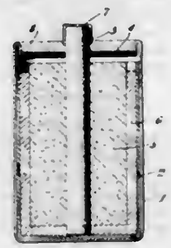
2,638,489

PRIMARY CELL

Samuel Ruben, New Rochelle, N. Y.

Application March 7, 1951, Serial No. 214,327

4 Claims. (Cl. 136—83)



1. An electric current producing cell comprising an anode of aluminum, an electrolyte of manganous chloride, and a depolarizer.

2,638,490

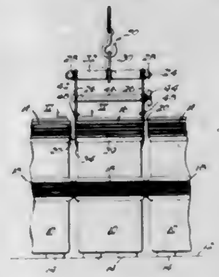
STORAGE BATTERY AND LIFT DEVICE

Almond H. Snyder, Lancaster, N. Y., assignor to National Battery Company, St. Paul, Minn.

Application May 7, 1947, Serial No. 746,558

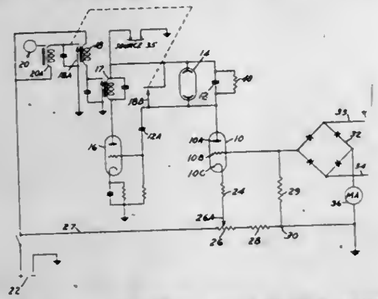
4 Claims. (Cl. 136—166)

1. In combination, a battery lifting tool comprising a cross bar and a pair of straps suspended from opposite ends of the cross bar and extending downwardly therefrom in parallel relation and each terminating in a lifting shoe portion, separate guide means spaced from said cross bar and inter-connecting said straps and adjustable to regulate the distance between said shoe portions; and a plurality of storage batteries adapted to be banked together in compact side-by-side relation, said batteries having generally rectangular shaped cases, said cases having top shoulder portions extending laterally therefrom and spacer abutments extending further laterally therefrom, the difference between the lateral extensions of said top shoulder portions and said spacer abutments being equal to at least half the thickness of said lifting shoe portion of one of said straps of said lifting tool, whereby said adjacent shoulder portions of said batteries are



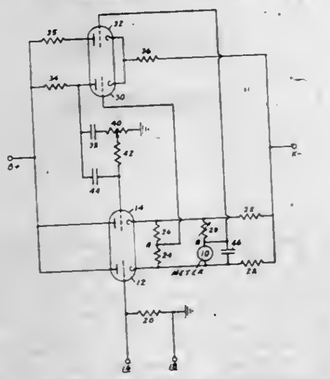
maintained in relatively spaced relation sufficient to pass said lifting shoe portions when said batteries are arranged in banked relation, and whereby said guide means may be loosely adjusted to permit the tool to be lowered so that the shoe portions move through the spaces between adjacent battery case shoulders into the spaces therebelow whereupon said guide means may be adjusted to force said shoes into engagement under said battery case shoulder portions so that said tool engages the battery for lifting purposes.

2,638,491
MICROCOULOMETER
George K. Turner, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Original application April 19, 1948, Serial No. 21,833. Divided and this application September 19, 1949, Serial No. 116,540
6 Claims. (Cl. 171—95)



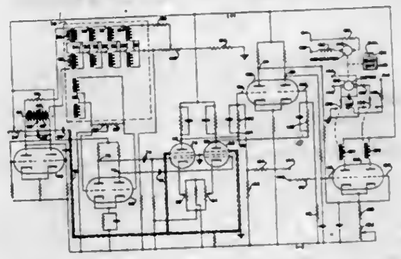
4. A micro-coulometer comprising a vacuum tube having an anode, a cathode and a control grid, a first resistor having one end connected to the control grid of the tube, an input circuit connected across the first resistor, a second resistor having one end connected to the cathode of the tube, adjustable means connected to the other ends of the first and second resistors for providing a difference in potential therebetween and causing the control grid to be of negative potential with respect to the cathode, a condenser serially connected in the anode circuit of the tube, a gas discharge tube connected across the condenser, and means coupled to the gas discharge tube for providing a count of the discharges of the discharge tube.

2,638,492
INERTIA CONTROL AND DAMPING MEANS FOR GALVANOMETERS
Otto H. Schmitt, Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of the Navy
Application May 11, 1944, Serial No. 535,162
6 Claims. (Cl. 171—95)



2. In combination with a moving-coil galvanometer, means for applying signals to the moving coil, means for amplifying the back E. M. F. generated in the moving coil, means for differentiating the amplified back E. M. F., and means simultaneously to apply to the galvanometer chosen portions of said amplified back E. M. F. and said differentiated E. M. F.

2,638,493
INTEGRATING CIRCUIT
John W. Trischka, New York, and Henri S. Sack, Ithaca, N. Y., assignors to the United States of America as represented by the Secretary of the Navy
Application July 29, 1946, Serial No. 686,968
23 Claims. (Cl. 171—95)



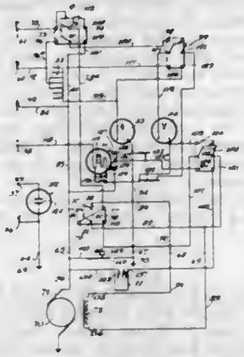
1. Apparatus for adding a plurality of input direct currents comprising, in combination, a saturable transformer energized at a fundamental frequency and operable to produce a second harmonic signal proportional in amplitude to the algebraic sum of said plurality of input direct currents, means for detecting said second harmonic signal to produce a direct current output voltage proportional to the algebraic sum of said plurality of input direct currents, an electric motor, means for driving said electric motor at a speed proportional to said output voltage, and a rotatable element driven by said motor, said motor driven element being operative to produce an indication representative of the integrated sum of said plurality of input direct currents.

2,638,494
ELECTRICAL CONDENSER
Albert Liechti, Zurich, Switzerland, assignor to Micafil A.-G., Zurich, Switzerland
Application March 20, 1950, Serial No. 150,581
In Switzerland April 4, 1949
12 Claims. (Cl. 175—41)



1. A condenser of the type including electrodes insulated from each other by layers of insulating material impregnated with an insulating substance, characterized by the fact that a folded strip of insulation of greater electrical strength than said impregnating material extends continuously along each electrode edge within the impregnated insulating material, and conductive coatings are on and united to the inner surfaces of said folded strip of insulation and in electrical contact with the edge portions of the adjacent electrodes; whereby electrical field lines terminate on said conductive coatings and traverse said insulating strips before entering said insulating substance and impregnated layers of insulating material.

2,638,495
TESTING APPARATUS
Ranza A. Crumbliss, Chicago, Ill.
Application April 26, 1951, Serial No. 222,969
8 Claims. (Cl. 175—183)

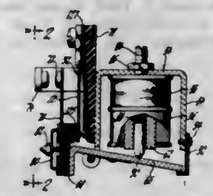


1. Apparatus for testing conventional regulators having an armature terminal, a field terminal and a battery terminal, and ignition coils having a high tension lead and a pair of low voltage terminals, comprising in combination a generator adapted to supply variable currents and voltages and having an armature and a field, means for connecting said field alternatively to the armature terminal of the regulator and to a low voltage terminal of the coil, circuit breaking means adapted for connection to the other terminal of the coil, variable impedance means connected intermediate said circuit breaking means and ground, indicating means adapted for connection to the high tension lead and to ground to thereby determine the operability of the coil, a variable resistance adapted for connection to the battery terminal of the regulator and to ground, a second variable resistance adapted for connection to the field terminal of the regulator, and means for alternatively connecting said second variable resistance to ground through the field of said generator and to said generator armature through the field of said generator thereby to test alternate types of regulators.

4. Apparatus for determining the operating characteristics of conventional regulators for motor vehicles having an armature terminal, a battery terminal and a field terminal comprising in combination a generator having an armature and a field, a variable resistance connected to the battery terminal and to ground, means for connecting said generator armature to the armature terminal, a second variable resistance adapted for connection to the field terminal, and means for alternately connecting the field terminal to said generator armature and ground through said generator field whereby two types of regulators may be alternately tested by said apparatus, said alternate connecting means being adapted for connection to said second variable resistance to place said second resistance in series with said field terminal.

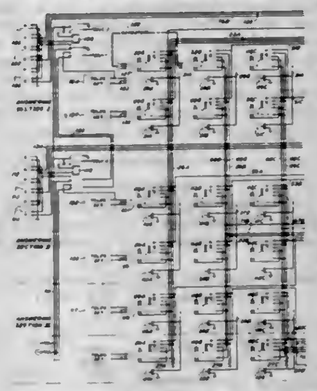
8. Apparatus for testing the operating characteristics of ignition coils for motor vehicles having a high voltage lead and a pair of low voltage connections, comprising in combination a source of substantially constant voltage, means for connecting said source to one of the connections, circuit breaking means having a pair of opening and closing contacts, means for opening and closing said contacts at varying rates, means for connecting said circuit breaking means to the other of the low voltage connections, a short circuit switch connected across said contacts, a variable resistance connected between said circuit breaking means and ground, and indicating means adapted for connection to the high tension lead and connected to ground, whereby ignition coils may be checked at varying voltages and equivalent motor vehicle speeds.

2,638,496
ELECTRICAL APPARATUS
Walter Lyman Church, Flint, Mich., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 23, 1950, Serial No. 186,477
5 Claims. (Cl. 175—335)



1. A relay including an electromagnetic coil, a magnetic iron circuit associated with said coil including a core and a frame and an armature, an electrothermal means mounted on said frame, said armature having a portion extending into the path of movement of the electrothermal means, and a plate of a nonmagnetic electrical conducting material located between said electrothermal means and said frame and having a sufficient area to shield said frame from said electrothermal means.

2,638,497
TELEGRAPH CALL TRANSFERRING SYSTEM
Wade B. Martin, Ramsey, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application March 8, 1952, Serial No. 275,597
6 Claims. (Cl. 178—2)



5. In a telegraph switching system, a station having a plurality of telegraph channels terminating thereat, a plurality of jack circuits connected to each of said circuits and variously located in said station at answering positions, a

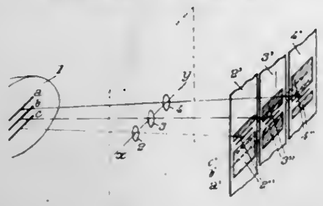
call indicating lamp associated with each of said jack circuits, call directing keys at certain of said answering positions, circuit control means automatically operable in response to a call incoming over any one of said channels for completing the circuits of the lamps associated with all the jack circuits connected to said one channel, and other circuit control means operable by said keys for selectively completing the circuits of the lamps associated with some of the jack circuits connected to said one channel.

2,638,498

TELEVISION RECORDING

Henri de France and René Bocquel, Paris, France, assignors to Society: "Tele-Industrie," S. A. R. L., Paris, France, a society of France

Application April 6, 1949, Serial No. 85,928
In France April 10, 1948
3 Claims. (Cl. 178—5.4)



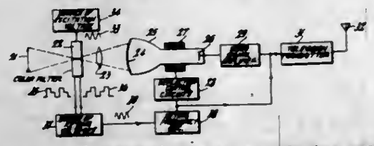
1. A cinematographic recording device which comprises, in combination, a single television receiver including a cathode ray tube having a screen, horizontal scanning means for moving the cathode ray beam of this tube with a reciprocating motion to form television lines on said screen, vertical scanning means including a relaxation oscillation generator giving, for every frame scanning, a number of successive identical stepped wave-forms smaller than the number of television lines per frame for distributively positioning the successive television lines of every frame received on this screen on a number of fixed line positions on said screen equal to the above mentioned number so that the sets of television lines reproduced on these fixed line positions respectively are interlaced in every frame, a number of cinematographic cameras equal to said number of fixed line positions, every camera including a moving film, and optical means between said screens and said cameras for projecting only one of said line positions on each of said camera films, respectively.

2,638,499

COLOR TELEVISION SYSTEM

John Evans, Blawenburg, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 24, 1950, Serial No. 140,223
16 Claims. (Cl. 178—5.4)



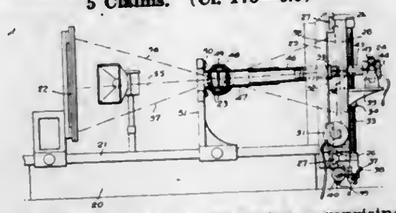
1. A color television image reproducing system, comprising means for producing a plurality of black and white partial images representative respectively of a plurality of color components of an image to be reproduced, a color filter device located in the path of light from said image-producing means, a transparent medium located in said light path between said image-producing means and said filter device, means for producing pressure waves in said medium, thereby forming a plurality of effective lenses in said medium by which to focus said light upon a group of areas of said filter device capable of transmitting light of a predetermined one of said plurality of colors, and means for variably positioning said pressure waves concurrently with color changes of said partial images to focus said light upon a different group of areas of said filter device capable of transmitting light of different colors corresponding with the colors represented by said partial images.

2,638,500

PROCESS AND APPARATUS FOR PHOTO-ELECTRIC ENGRAVING

Clare E. Ernst, Flint, Mich.

Application June 28, 1951, Serial No. 234,006
5 Claims. (Cl. 178—6.6)



1. A plate-engraving apparatus comprising a photoelectric cell for scanning a picture, a cutting tool, a plate positioned for engagement of said cutting tool therewith, means for imparting reciprocal motion and movement at right angles to said reciprocal motion at the end of each stroke of reciprocal motion to said photoelectric cell relative to the picture and to said cutting tool relative to said plate in unison, said means for imparting reciprocal motion including a feed screw rotatably mounted and reversed in its directions of rotation, a pulse generator including a stationary pulse generator coil and at least one permanent magnet connected to said feed screw and rotatably moved in close proximity past the coil for producing electrical impulses, said permanent magnet having a lost motion in its connection to the feed screw upon rotation of the feed screw in opposite directions for producing impulses staggered relative to reciprocal motion in opposite directions, a mixer tube receiving current variations from said photoelectric cell and timed pulses from said pulse generator, an amplifier receiving timed pulses of varying currents from said mixer tube, and a cutting tool activating mechanism for moving said tool into said plate according to the value of the pulses from said amplifier.

2,638,501

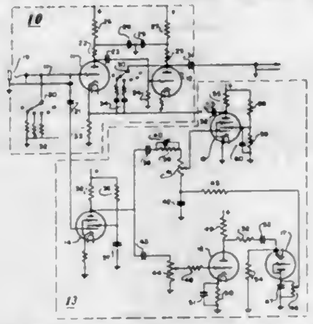
ELECTRONIC NOISE SUPPRESSOR

Sidney B. Coleman, Basking Ridge, N. J.

Application November 4, 1948, Serial No. 58,187
6 Claims. (Cl. 178—44)

5. Apparatus for reducing objectionable background noise in sound amplifiers comprising a sound amplifier, including at least one amplifier stage having a control grid and a cathode, an auxiliary vacuum tube having the output thereof

connected to the cathode circuit of said sound amplifier stage, means for controlling said auxiliary vacuum tube connected between the control grid of said auxiliary vacuum tube and the input of said sound amplifier stage, said last mentioned means including a circuit having principally high frequency output for supplying noise voltages to said auxiliary vacuum tube so that said noise voltages may be inserted into the



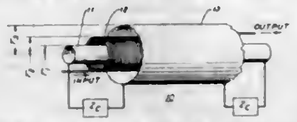
cathode circuit of said sound amplifier stage in opposition to corresponding noise voltages at the grid of said sound amplifier stage so that the noise output of said sound amplifier is reduced practically to zero during low or no signal input, said last mentioned means also including a negative bias control circuit for said auxiliary vacuum tube for reducing the gain thereof during louder signal intervals.

2,638,502

SOLENOID DELAY LINE

John R. Pierce, Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 14, 1951, Serial No. 215,536
5 Claims. (Cl. 178—44)



4. A delay line comprising an inner circularly cylindrical conducting shield of outside radius r_1, a solenoid coil coaxial with said inner shield of mean radius r_2 and an outer circularly cylindrical conducting shield coaxial with said inner shield and coil of inner radius r_3 in which the radii r_1, r_2, and r_3 are such that the ratio r_1/r_2 is substantially equal to the ratio r_2/r_3.

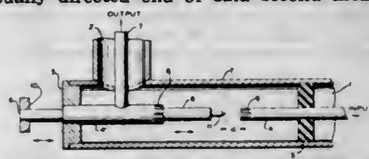
2,638,503

COAXIAL VARIABLE ATTENUATOR SWITCH

Delman E. Rowe, Washington, D. C., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application August 30, 1945, Serial No. 613,511
3 Claims. (Cl. 178—44)

1. In a coaxial transmission line an inner conductor comprising first and second hollow cylindrical members coaxially mounted a fixed distance apart and a third cylindrical member telescopically mounted within said first member in slidable electrical contact therewith, means for sliding said third member within said first member in either direction parallel to the longitudinal axis thereof, a tapered electrical probe in the end of said third member directed toward the mutually directed end of said second member,



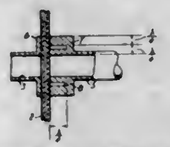
and means in said last mentioned mutually directed end for establishing slidable electrical contact with said third member when said probe is inserted therein.

2,638,504

HIGH-FREQUENCY ELECTRICAL DEVICE HAVING GASTIGHT ENVELOPES

Albert Frederick Pearce, Hampton Hills, and Norman Charles Barford, South Bend, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

Application October 5, 1946, Serial No. 701,542
In Great Britain June 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 11, 1963
2 Claims. (Cl. 178—44)



1. A high frequency electrical device adapted to operate at a given frequency comprising two aligned hollow conductors adapted to transmit electromagnetic waves therethrough, dielectric material separating said conductors, and means for presenting a low impedance at the operating frequency between said conductors at the inner surface thereof, said means including parallel flanges on the adjacent ends of said conductors, one of said flanges being provided with a recess having a depth equal to a quarter wavelength in air at the operating frequency and having its open end located at a distance from said inner surface substantially equal to a quarter wavelength at the operating frequency in said dielectric material, to provide a high impedance across said open end of said recess, the total width of each of said flanges being equal to a half wavelength at the operating frequency in said dielectric material, whereby the quarter wave open transmission line section formed by the portions of said flanges outwardly from said recess provides, at said open end, a low impedance in series with said recess and the other of said flanges.

2,638,505

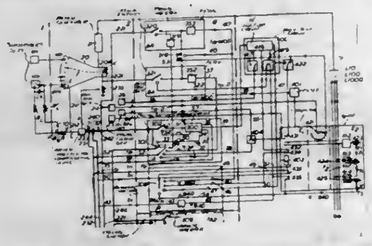
PULSE ELECTRONIC SWITCHING SYSTEM

Stanislas Van Mierlo, Antwerp, Belgium, and Boris Derjavitch, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application March 24, 1948, Serial No. 16,778
In France March 26, 1947
10 Claims. (Cl. 179—15)

1. A switching system of the type wherein a number of channels of communication are rep-

resented by individual time positions in a recurring cycle of time positions comprising a common conductor connected to said channels, a lesser number of connecting circuits than there are channels connected to said common conductor in cascade arrangement, means in each connecting circuit for responding initially to an impulse at



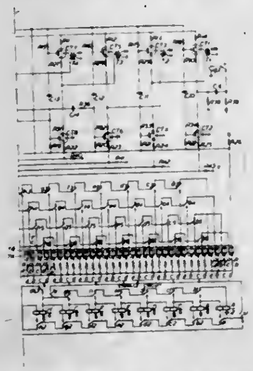
any time position, means controlled by said responding means for by-passing any subsequent impulses at other time positions so that they pass to the next succeeding connecting circuit, and means controlled by said responding means for blocking from the other connecting circuits subsequent repeated impulses at the time positions causing the initial response.

2,638,506

ELECTRICAL STORAGE OF INFORMATION ON GAS-FILLED TUBES

Frederick Harry Bray, George Clifford Hartley, and Desmond Sydney Ridler, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application October 29, 1947, Serial No. 782,733
In Great Britain October 30, 1946
8 Claims. (Cl. 179—27)



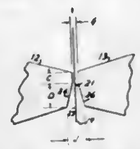
1. A system for the electrical storage of information comprising a plurality of storage elements grouped according to code requirements, a plurality of digit key switching means, means responsive to the operation of said key switching means for selectively electrically connecting a group of said storage elements to said switching means, and a plurality of direct-current operated triggering means, common to all said groups of said storage elements and included in said electrical connecting means, each of said storage elements being operatively responsive to the operation of a separate one of said triggering means when connected to said triggering means by said connecting means, said triggering means being selectively operatively responsive in combinations to the operation of each digit key switching means, whereby each digit key switching means when operated selectively operates a combination of said triggering means and thus operates a predetermined combination of the connected group of said storage elements corresponding to the digital value of said digit key switching means on a codal basis.

2,638,507

MAGNETIC RECORD ERASER

Eugene H. Lombardi, Port Chester, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York

Application August 24, 1950, Serial No. 181,183
3 Claims. (Cl. 179—100.2)



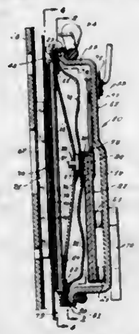
1. A magnetic record eraser comprising, a ferromagnetic core the ends of which are formed into a pair of juxtaposed pole pieces separated by a gap adapted for the passage of a magnetic record medium therethrough, a coil surrounding said core, a source of alternating current energizing said coil, said pole pieces having a portion of their juxtaposed ends provided with faces parallel to each other and the remaining portions thereof with faces diverging in the direction of travel of said record medium, the angle of divergence being such that the peak of any half cycle of magnetic field produced at any point therebetween along the travel of said magnetic record medium is at least as great as the instantaneous coercive force of any element of said record medium passing said point.

2,638,508

VENTED CASING AND VAPORPROOF ENCLOSURE FOR SOUND TRANSDUCERS

Richard W. Carlisle, Elmsford, N. Y., assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York

Application August 31, 1950, Serial No. 182,490
2 Claims. (Cl. 179—110)



1. In a sound-transducing device such as a microphone for a hearing air small enough to inconspicious wear on the body of the user: a

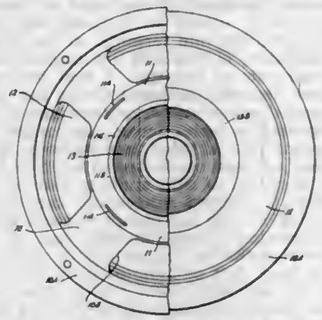
generally flat relatively-rigid cavity wall structure; a vibratory diaphragm having a periphery joined to said wall structure to form therewith an acoustic cavity; a generally flat vibro-electric transducer element held within said cavity and having a portion mechanically connected to a vibratory portion of said diaphragm to form therewith a transducing system which transduces vibratory forces imparted to said diaphragm into electric output or vice versa; a light, substantially limp metal barrier diaphragm interposed within said cavity between said vibratory diaphragm and said transducer element; said wall structure having a continuous wall region surrounding said transducer element; said barrier diaphragm having a continuous metallic peripheral region hermetically joined to said continuous wall region of said wall structure and forming therewith a substantially vapor-proof hermetically sealed transducer compartment within which said transducing element is held; the cavity part of said cavity extending outside said transducer compartment having vent opening portions for equalizing the air pressure in the cavity relatively to the outer atmosphere and securing the desired sensitivity of said transducing system.

2,638,509

DIAPHRAGM UNIT FOR LOUD-SPEAKERS

Reginald Denison Charlesworth, Dee Why, New South Wales, Australia, assignor to Magnavox (Australia) Pty. Ltd., East Sydney, New South Wales, Australia, a corporation of Australia

Application August 28, 1948, Serial No. 59,323
In Australia August 27, 1947
2 Claims. (Cl. 179—115.5)



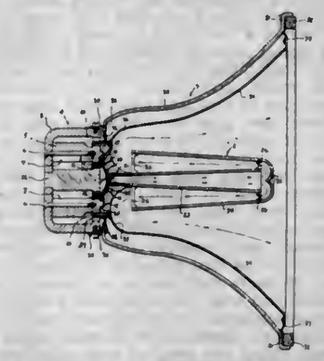
1. In a loud speaker, a diaphragm assembly unit comprising in combination, a diaphragm housing having a base and being provided with an accurately positioned aperture in its base, a diaphragm attached to said housing and fitted with a voice coil former, a voice coil carried by said voice coil former, and a locating and supporting spider attached to said diaphragm and to said housing, said housing having an inwardly extending flat ledge on the side wall portions thereof, a right angled extension on the radially inner edge of the ledge, and the said base for the extension containing the aperture which is accurately positioned with relation to the voice coil former, said ledge carrying said spider and having part locking means provided therein, so that the individual parts of the complete diaphragm assembly are in concentric relationship to each other and the voice coil is in correct operative alignment with the aperture in said base, said flat ledge having a plurality of arcuate slots provided therein to form said part locking means, which slots are concentric with said aperture in said housing.

2,638,510

DUPLEX LOUD-SPEAKER

Joseph Brami, Baltimore, Md., assignor to Caesar David Zeitouni, Brooklyn, N. Y.

Application January 6, 1949, Serial No. 69,541
23 Claims. (Cl. 179—115.5)



1. In combination, a bell-like diaphragm positioned to discharge sound vibrations forwardly from within the diaphragm; means for introducing high frequency air vibrations rearwardly into the inner part of the diaphragm; and means for imparting low frequency vibrations to the diaphragm.

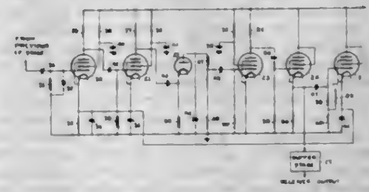
2. In combination, a small sound chanmber; a diaphragm across the chamber; means for imparting high frequency vibrations to the diaphragm; a long narrow horn communicating at its inner end with said chamber and having its intermediate part remote from said inner end and its larger end adjacent to the inner end; a large single fold exponential direct radiator bell-like vibratory diaphragm receiving said horn and having its inner end freely movably closely adjacent to the larger end of the horn and forming a continuation thereof; and means attached to said inner end of the bell-like diaphragm for imparting low frequency vibrations thereto.

2,638,511

PULSE STRETCHING PREVENTION CIRCUIT

Frank P. Zaffarano, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application April 27, 1949, Serial No. 89,873
2 Claims. (Cl. 179—171)



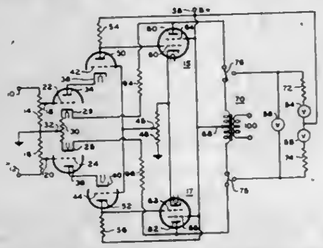
1. In an amplifier for pulse width detecting systems constructed to avoid pulse stretching, an amplifier tube including a cathode, an anode and a grid, said grid having input signal pulses supplied thereto, a bias resistor connected to be

common to the cathode and grid circuits of said amplifier tube, a control tube including a cathode, an anode and a grid, circuit means supplying an input to the grid of said control tube varying in accordance with the output of said amplifier tube, circuit means causing said grid to be normally biased beyond cutoff to require an input of a predetermined value before said control tube can give an output, a capacitor connected in the cathode circuit of said control tube without a limiting resistor in the output plate circuit of said control tube to permit said capacitor to rapidly receive a charge at the beginning of each received signal pulse in accordance with the amplitude of that pulse when it rises above a predetermined value, and circuit means connecting said capacitor in multiple with said bias resistor of said amplifier tube to reduce the gain of said amplifier in accordance with the charge on said capacitor and to permit said capacitor to slowly discharge through said bias resistor after the termination of each signal pulse for restoring the gain of said amplifier to normal after a limited time, whereby said capacitor is charged rapidly through said control tube in response to each input pulse and remains charged for the duration of each such pulse to thereby reduce the gain of said amplifier tube, and whereby said capacitor discharges slowly through said bias resistor after the termination of each input pulse to thereby cause the gain of said amplifier tube to slowly return again to its normal value during a limited time in which echo pulses might be received.

2,638,512

DIRECT COUPLED AMPLIFYING SYSTEM

Carlton E. Bessey, Little Silver, N. J.
Application September 8, 1949, Serial No. 114,633
4 Claims. (Cl. 179—171)
(Granted under Title 35, U. S. Code (1952), sec. 266)

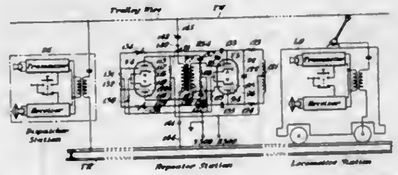


1. A cascaded amplifying system comprising first, second, and third electron tubes, each of said tubes having at least an anode, a grid and a cathode, means to directly connect the anode of said first tube solely to the cathode of said second tube, means for applying an anode-cathode current potential difference between the anode of said second tube and the cathode of said first tube, whereby the anode-cathode current in said first tube always equals the anode-cathode current in said second tube, means comprising a source of bias voltage for the grid of said second tube, means connecting the grid of said second tube to said source of bias voltage whereby upon application of a signal between the grid and cathode of said first tube the impedance of both of said tubes will vary in phase, a load impedance connected to the anode of said second tube, wherein said anode-cathode current potential difference is applied to the anode of said second tube through said load impedance, the grid of said third tube being directly connected to the anode of said second tube, said third tube having a load impedance in series with its cathode, the potential drop across said cathode load comprising said source of bias voltage.

2,638,513

REPEATER APPARATUS FOR COMMUNICATION AND SIGNALING SYSTEMS

Adrian R. Doucette, Swissvale, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application October 26, 1949, Serial No. 123,669
3 Claims. (Cl. 179—171)



1. In repeater apparatus for modulated alternating current, the combination comprising, a first and a second pair of electron tubes; each said tubes having an anode, a cathode and a control grid; an oscillatory circuit including a mid terminaled winding and a capacitor connected in multiple, said oscillatory circuit being connected across the anodes of said first pair of tubes, a pair of resistors connected in series across the control grids of said first pair of tubes, said cathodes of said first pair of tubes connected in multiple to the junction terminal of said pair of resistors, a power source, means to connect said power source between the mid terminal of the winding of the oscillatory circuit and the junction terminal of said pair of resistors, a mid terminaled impedance element connected across the anodes of said second pair of tubes, another pair of resistors connected in series across the control grids of the second pair of tubes, said cathodes of said second pair of tubes connected in multiple to the junction terminal of said another pair of resistors, means to connect said power source to the mid terminal of said impedance element and the junction terminal of said another pair of resistors, means including capacitors to couple the anodes of said first pair of tubes to the control grids of the second pair of tubes, other means including other capacitors to couple the anodes of said second pair of tubes to the control grids of said first pair of tubes, a transformer having a first and a second winding, said first transformer winding being coupled across the control grids of said first pair of tubes, and said second transformer winding being included in a connection to which modulated alternating current can be applied.

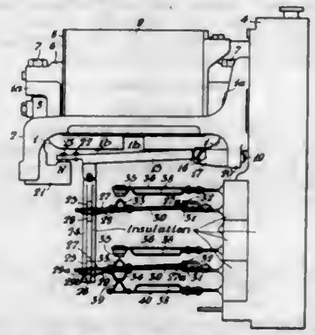
2,638,514

ELECTRIC CIRCUIT CONTROLLER

Paul N. Martin, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application September 25, 1948, Serial No. 51,261
5 Claims. (Cl. 200—1)

3. Electric circuit controlling apparatus, comprising a rigid finger, operating means for positioning one end of the finger, a fixed abutment adjacent one side of the opposite end of the finger, a leaf spring lying along the finger and connecting an intermediate point in the finger to the

abutment, a stop for limiting the movement of said opposite finger end away from the abutment, first and second movable electric contacts carried on the opposite sides of the finger, first and second stationary electric contacts, means yieldably supporting the stationary contacts in alignment with their respective movable contacts, so that upon movement of said one finger end in a direction to engage the contact on the abut-

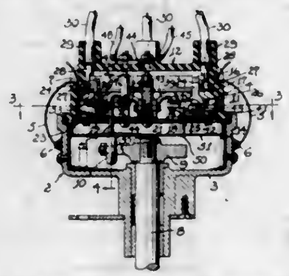


ment side of the finger, said spring yieldably supports said opposite end until the contacts engage, whereupon said opposite finger end is moved to engage its stop, and thereafter the finger pivots about said stop, and so that upon movement of said one finger end in the opposite direction, said spring yieldably supports said opposite end until the contacts engage, whereupon said opposite finger end moves until it is stopped by said abutment and thereafter the finger pivots about said abutment.

2,638,515

DISTRIBUTOR

Frederick Nelson, Lakewood, Ohio
Application September 15, 1951, Serial No. 246,793
8 Claims. (Cl. 200—27)

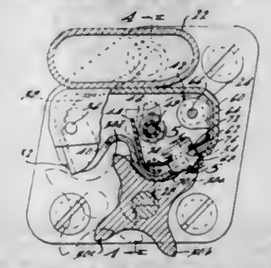


5. In a mechanically operated switching device a fluid-tightly sealed housing including a yielding wall, a double-acting switch member in said housing including stationary contact members, and a tiltable, bridge-like shiftable contact member adapted to selectively electrically connect the stationary contact members with each other, contact posts electrically connected with said stationary contact members and said shiftable contact member and fluid-tightly extended through the wall of said housing outside thereof, coupling means in said housing connecting said shiftable, bridge-like contact member with said yielding wall, and, shiftable means arranged outside of said housing in proximity to the yielding wall thereto adapted to effect inward shifting of said yielding wall and shifting of said shiftable bridge-like member to selectively connect the stationary contact members with each other when said shiftable means are shifted to predetermined positions.

2,638,516

VEHICLE SWITCHING DEVICE

Louis B. Forman, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 20, 1951, Serial No. 211,839
5 Claims. (Cl. 200—55)

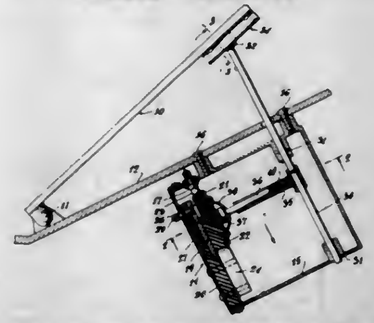


1. In a vehicle body having a swingable door, the combination comprising a rotatable latch bolt and a keeper respectively secured to said door and body, said keeper having first and second abutments defining first and second stations for engaging said bolt when said door is in a partially closed and a completely closed position, respectively, and switch means for controlling an electrical circuit within said vehicle having a portion extending outwardly from said second abutment and engageable with said bolt when said bolt is in said second station.

2,638,517

ACCELERATOR CONTROLLED SWITCH

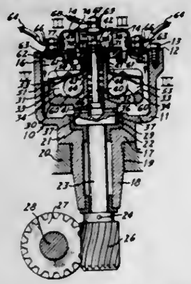
Myron A. Zarski, Brooklyn, N. Y.
Application September 23, 1952, Serial No. 310,977
5 Claims. (Cl. 200—59)



1. A switch for a signaling system of the class described comprising a frame, a contact member on said frame, a slide on said frame having an end adjacent said contact member, a contact plate on said slide at the end adjacent said contact member, a shoe mounted for sliding movement on said slide, means for moving said shoe along said slide including a connection for tiltably supporting said shoe, and a contact element on one end of said shoe adapted to be connected to said

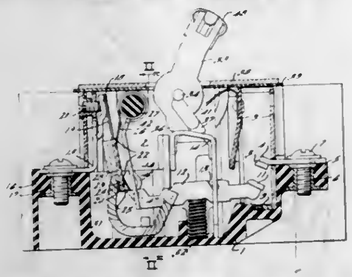
contact member when said shoe is at one end of said slide and adapted to engage said contact plate when said shoe is tilted with respect to said slide.

2,638,518
SPEED-RESPONSIVE DEVICE
Glenn T. Randol, Mountain Lake Park, Md.
Application January 18, 1951, Serial No. 206,569
15 Claims. (Cl. 200—80)



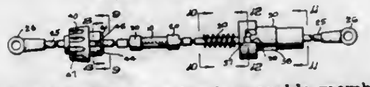
1. A speed-responsive device comprising a rotatable shaft, axially separable rotatable elements cooperatively defining a radially outwardly decreasing chamber therebetween, an elongated spring-arm carried by one of said elements and projecting into said chamber, and an anti-friction element in said chamber for radially outward centrifugal movement as said elements are rotated, said anti-friction element contacting said spring-arm to resiliently urge said members to separated relation by wedging action against said spring and said one of said elements.

2,638,519
MULTIPOLE CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application February 28, 1951, Serial No. 213,166
10 Claims. (Cl. 200—88)



1. In a multipole automatic electric circuit breaker, a plurality of pairs of separable contacts and elements individual to each pair releasable to effect separation of the corresponding pair of contacts, means mounting one of each pair of contacts upon the element associated with that pair of contacts, independently operable latching means for each of said plurality of elements, current responsive tripping means for effecting unlatching of the latching means including both thermal and magnetic tripping means individual to each element of said breaker and energized in response to current flow through the pair of contacts controlled by their associated element, means mounting said individual magnetic tripping means for common movement as a unit to cause unlatching of the latching means for all elements due to a current overload through any pair of contacts, said individual thermal tripping means effecting unlatching of the latching means of their associated individual element due to a current overload through the associated pair of contacts, and means on each of said elements engageable with said magnetic means to effect unlatching movement of all said latching means in response to release of any element.

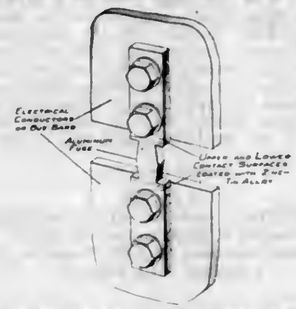
2,638,520
ELECTRIC FUSE HOLDER
Charles J. Ward, Philadelphia, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application December 24, 1949, Serial No. 134,927
1 Claim. (Cl. 200—133)



In a fuse holder, a pair of separable members of insulating material conjointly adapted to form a protective casing for a cartridge fuse having end terminal caps, each of said members having extending axially therethrough an elongated bore terminating at its outer end in a hole of a diameter less than that of said bore to provide an internal shoulder at the outer end of each member, cup-shaped contact elements respectively seated in said bores and respectively embracingly receiving said end terminal caps for frictional engagement therewith over a wide area, each of said elements having secured thereto a conductor extending outwardly from each of said casing members through the reduced diameter end hole thereof, a coil spring floatingly embracing one of said conductors and disposed in intervening relation between the contact element of said conductor and the internal shoulder of the member accommodating said last-mentioned contact element, said casing members being respectively provided at their inner connecting ends with interfitting male and female portions adapted to be interconnected and locked together by coacting bayonet and slot means which include an external projection on the male portion of one member and an internal groove on the female portion of the other member, the arrangement being such that upon interlocking assembly of the casing members with the cartridge fuse enclosed thereby the said coil spring exerts its pressure axially against the cartridge fuse to secure the latter between said cup-shaped contact elements and to maintain said casing members locked together.

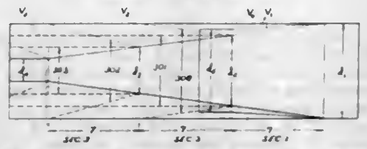
2,638,521
CONTACT FOR ELECTRICAL CONDUCTORS OF ALUMINUM OR ALUMINUM ALLOYS
Earl R. Thomas, Englewood, N. J., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 268,237
3 Claims. (Cl. 200—166)

1. In electrical apparatus the combination comprising a pair of separable metallic electrical conductor members held under mechanical pressure in contact for conducting current through the contacting surfaces from one member to the other, at least one of said members embodying a substantial percentage of aluminum and the contacting surface portion thereon comprising a



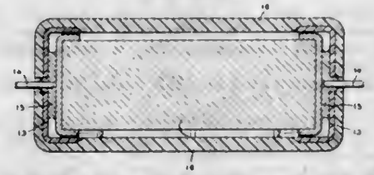
coating of stable electrical resistance formed of an alloy consisting of about 5% to about 15% of zinc and the remainder principally tin.

2,638,522
TAPERED CONDUCTOR
Thomas B. Gibbs, Delavan Lake, and Samuel Dinerstein, Delavan, Wis., and George W. Gilman, Lake Wales, Fla., assignors to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Original application March 9, 1944, Serial No. 525,764, now Patent No. 2,605,218, dated July 29, 1952. Divided and this application May 17, 1951, Serial No. 226,778
11 Claims. (Cl. 201—60)



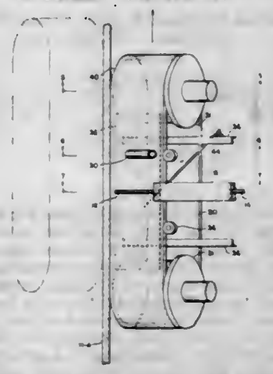
1. As an article of manufacture, an integrally formed resistance wire comprising two substantially cylindrical sections of different diameters and a tapered section joining said cylindrical sections.

2,638,523
METAL TO PLASTIC BONDING
Louis C. Rubin, West Caldwell, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application May 24, 1952, Serial No. 289,766
14 Claims. (Cl. 201—64)



1. An article of manufacture comprising a plastic component of a thermoplastic polymer of trifluorochloroethylene and a metallic component comprising finely divided metal particles said article ranging in composition from a major proportion of the metallic component at a surface to none of the metallic component at the opposite surface.

2,638,524
WELDING PROCESS AND APPARATUS
Amel R. Meyer, Griffith, Ind., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind., a corporation of Delaware
Application October 24, 1951, Serial No. 252,919
12 Claims. (Cl. 219—8)



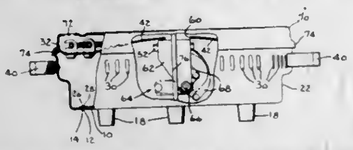
1. Welding process for use on an upstanding shell, comprising the steps of movably holding the ends of a deformable, substantially longitudinally extended strip to the ends of a horizontal area of the shell; deforming an intermediate portion of the so extended strip toward the shell to press said portion to the shell regardless of horizontal curvature and irregularities in the shell; pouring onto said portion a layer of flux contacting the shell; and horizontally traversing the shell with a welding arc submerged under the flux.

2,638,525
WELDING STUD AND METHOD OF ARC WELDING
Albert M. Candy, La Grange, Ill., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application October 30, 1945, Serial No. 625,541
5 Claims. (Cl. 219—10)



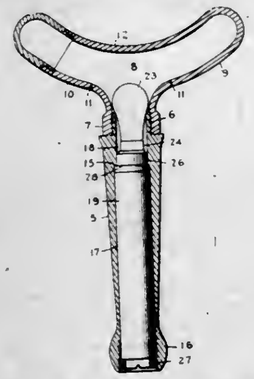
2. Method of arc-welding a stud to a plate, which comprises placing a ferrous stud provided with an aluminum element carried by and extending beyond the terminal surface of the end of the stud to be welded in position against a metal part, completing an electrical circuit between said stud and said part through said aluminum element to form an arc upon melting of said aluminum element, the thickness and spacing of said element with respect to said stud and the amount of aluminum constituting said element being so selected and correlated as to position said stud initially at the proper distance from said part to form a welding arc and upon being melted, forms a gap for the arc and provides a flux to protect molten metal formed by said arc from oxidation, and forcing the end of said stud into contact with said part thereby to interrupt said arc and form a weld.

2,638,526
ELECTRICALLY HEATED BASE FOR COOKING
Ralph N. Kircher and William G. Laabs, West Bend, Wis., assignors to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application October 13, 1950, Serial No. 189,938
6 Claims. (Cl. 219—19)



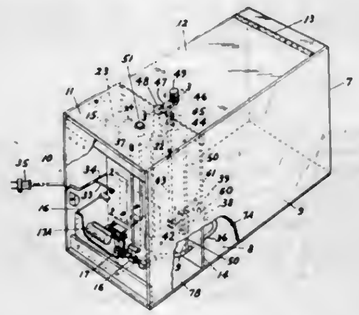
4. In an electrically heated base for small portable ovens or the like, a bottom provided with means for supporting said bottom spaced from a table top or the like, a body mounted on said bottom and having upper and lower ends with said lower end in engagement with said bottom, said upper end terminating in a vertical peripheral flange, a relatively thin aluminum reflector having an outer edge extending to and supported by said vertical peripheral flange, said reflector having a peripheral margin therearound adjacent to said outer edge, a heating element carried by insulators on said reflector and positioned above and in substantial vertical alinement with said peripheral margin and closely adjacent said outer edge, said reflector being arched upwardly in semi-dome fashion from the inner edge of said peripheral margin to the center of said reflector to provide a curved surface for radiating heat from said heating element toward the outer edge of said reflector, and a top carried by said body and extending over said reflector and said heating element to provide a bottom for a portable oven or the like.

2,638,527
MASSAGE AND HEAT APPLICATOR
Cecil Claud Curtis, Washington, D. C.
Application June 8, 1948, Serial No. 31,673
3 Claims. (Cl. 219—21)



1. In a massage and heat applicator, a hollow arcuate head portion, an elongate tubular hand grip joined at one end to the center of the convex side of the head portion and opening into the same, a cylinder of insulation material of approximately the same length as and fitting snugly in the hand grip, an electric heating element supported in the joined end of the cylinder and projecting into the head portion, a wire terminal supporting means secured in the other end of the cylinder, electric current conductors extending through the cylinder from said terminal means to said heating element, said cylinder being insertible into and removable from the hand grip through the end thereof opposite from the head portion, and an annular retaining element secured in the last mentioned end of the hand grip.

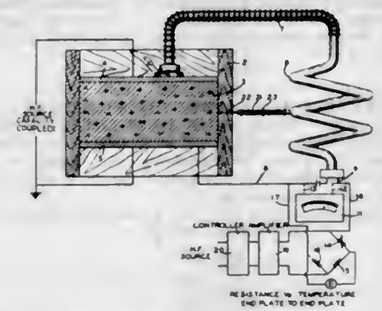
2,638,528
ELECTRONIC SPACE UNIT HUMIDIFIER
Charles V. Runkle, Detroit, Mich.
Application February 21, 1951, Serial No. 212,143
5 Claims. (Cl. 219—40)



1. In a device of the character described in combination, a housing of non-conductive material, a partition in said housing dividing said housing into a liquid reservoir compartment and a second smaller compartment, an electric vapor generator in said second compartment having means for passing an electric current through films of liquid formed in said generator, a tray in said second compartment for supplying liquid to said generator, adjustable means for controlling the flow of liquid from said reservoir to said tray, and a current breaker comprising a non-conductive element having a restricted bore, with a movable compressible cap, arranged in the liquid flow line to prevent the passage of current into the liquid in said reservoir.

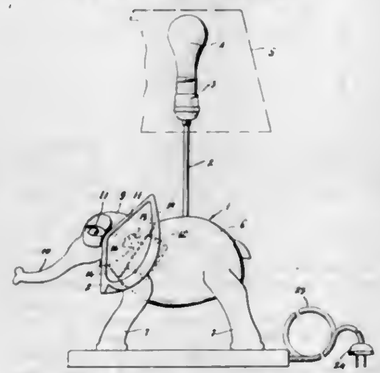
2,638,529
METHOD AND APPARATUS FOR DIELECTRIC HEATING
George E. Gard, East Hempfield Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application July 21, 1952, Serial No. 300,075
9 Claims. (Cl. 219—47)

4. In a method of dielectrically heating a mass of material, the steps comprising disposing between spaced electrodes a mass of dielectric material which decreases in electrical impedance as its temperature increases, applying a high-frequency alternating electric field between said electrodes from a source of high-frequency voltage to heat said dielectric mass and decrease its electrical impedance, applying an energizing control voltage directly to said heated dielectric mass at spaced points embracing a substantial portion at least thereof, and discontinuing the dielectric heating of said dielectric mass upon a predetermined decrease in the impedance of said heated dielectric mass to the flow of current from said



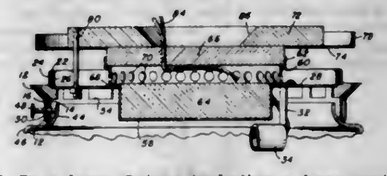
energizing control voltage which occurs as the temperature of said dielectric mass increases.

2,638,530
NURSERY LAMP
Michael Duda, Newark, N. J.
Application February 25, 1949, Serial No. 78,415
4 Claims. (Cl. 240—10)



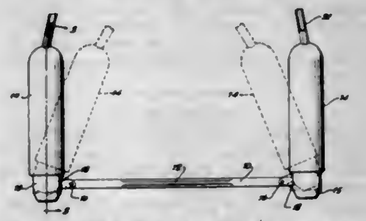
1. A nursery lamp or the like having a base portion in the form of an animal, said base portion comprising a fixed member and a plurality of articulated members an electric lamp supported by said base portion, a concealed snap switch within said base portion for controlling the illumination of said lamp, a first one of said articulated members being manually movable to either of two limiting positions relatively to the fixed member, means on said manually movable member for operating the switch when said manually movable member is moved to its limiting positions, a second one of said articulated members being an eye element of the animal, said eye element having spaced portions thereof ornamented to simulate an open and a closed eye means operably connecting the eye element with the manually movable member for movement relative thereto, and means connected to the fixed member and to the eye element for causing movement of the eye element relative to the manually movable member to present the ornamented open and closed eye portions thereof into view to simulate the opening and closing of the eye as the manually movable member is moved relatively to the fixed member.

2,638,531
HEAT REDUCING ATTACHMENT FOR LIGHT FIXTURES, INCLUDING SPACED UPPER AND LOWER HEAT RESTRICTORS
Isaac Levy, Laureiton, N. Y.
Application August 5, 1949, Serial No. 108,707
4 Claims. (Cl. 240—47)



3. In a lamp fixture including a base portion having a horizontal wall with an enlarged central opening therein, a heat reducer comprising a cylindrical member having a reduced lower portion extending downwardly through the opening, said member having a shouldered portion supported on said horizontal wall, said member also including an enlarged upper portion, a lower heat-resistant disk received in the lower portion of said member, an upper heat resistant disk received in the upper portion of said member and spaced parallel to the lower disk, said member having openings in its wall between said upper and lower disks, and means securing the member to the horizontal wall.

2,638,532
COMBINED SPECTACLE FRAME AND LIGHT
Thomas L. Brady, Henderson City, Ky.
Application March 23, 1949, Serial No. 82,951
1 Claim. (Cl. 240—59)

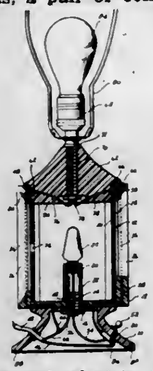


A light suspending apparatus including a spectacle frame, temple-ends hinged to the said frame, a battery and light enclosing container forming a part of the said temple-ends, and a cap enclosing the said light, the said cap being screw-threaded to the battery container and having a hinge link extending to the said spectacle frame.

2,638,533
STAND LAMP HAVING AN ILLUMINATED BASE
James G. Zobian, Roslyn, N. Y.
Application June 23, 1950, Serial No. 169,929
3 Claims. (Cl. 240—81)

1. An illuminated base lamp including in combination a support, generally vertical side walls carried by the support to form a chamber open at its upper end, one of said side walls being formed with a window, means for mounting an electric lamp within the chamber, a second support having a depending portion removably telescoped within the chamber at its upper end, means for mounting a second electric lamp upon the second support, two electri-

cally conductive securing means each formed of a pair of readily releasable interengageable means, one of the interengageable means of each pair being stationarily mounted on the side walls within the chamber adjacent its upper end, the other interengageable means of each pair being mounted upon the depending portion for coaction with the stationarily mounted interengaging means of each pair, a pair of conductors adapted to be connected to a source of potential for energizing the first electric lamp mounting means, a pair of conductors for en-



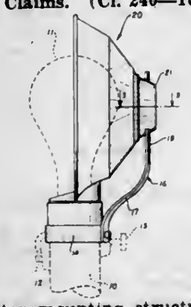
ergizing the second electric lamp mounting means, said last named conductors terminating in electrical contact with the respective interengageable means carried by the depending portion of the second support, conducting means for connecting said first pair of conductors to respective stationarily interengageable means, the construction being such that when said interengageable means are engaged said second support will be releasably secured to said chamber and said second pair of conductors will be in electrical communication with respective first conductors.

2,638,534

REFLECTOR MOUNTING STRUCTURE

George A. Haraden, Denver, Colo., assignor to Heiland Research Corporation, Denver, Colo., a corporation of Colorado

Application May 12, 1949, Serial No. 92,891
4 Claims. (Cl. 240—105)



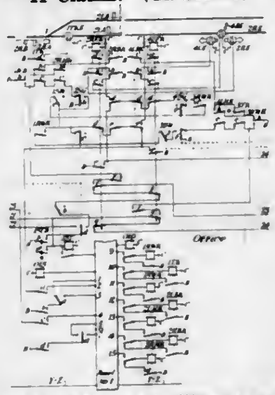
1. A reflector mounting structure comprising a bracket for attachment to a light bulb socket and being provided with an arm having a concavo-convex cross section, a reflector provided with a hub having a slot for receiving the arm, and a separate leaf spring carried by and within the hub and having a curvature in a direction transverse to the longitudinal axis of the arm for acting between the hub and the arm to bias the edge portions only of the arm and one side of the slot into frictional engagement, said frictional engagement being such as to automatically hold the hub from movement on the arm unless a predetermined sliding force is applied to the reflector.

2,638,535

CENTRALIZED TRAFFIC CONTROL SYSTEM OF THE NORMALLY DEENERGIZED REVERSIBLE CODED TRACK CIRCUIT TYPE

Henry S. Young, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application May 29, 1945, Serial No. 596,470
11 Claims. (Cl. 246—3)



1. Railway traffic controlling apparatus for governing the operation of railway signals located at opposite ends of a stretch of single track, comprising a normally deenergized system of reversible circuits extending the length of the stretch which is arranged to be energized at either end to control the signal at the other end in accordance with traffic conditions in the stretch, a signal lever for each signal located at a central office for imposing manual control upon the signals, signal indication means at the office controlled by said signals to indicate their condition, two block indication relays at the office controlled by said system of circuits from the opposite ends of the stretch, two direction locking relays, one controlled by each block indication relay, indication means controlled by said direction locking relays to indicate, when a selected traffic direction is established, whether the stretch is occupied or clear, a remote control system having a manually controllable starting button for each signal lever, two starting circuits controlled by each starting button for initiating the transmission of two control codes by said remote control system when the associated signal lever is operated to a reverse position including one which serves to energize said system of circuits in the direction required for the control of the signal governed by the operated lever and another which serves to render such signal responsive to traffic conditions as reflected by said system of circuits, the starting circuit for said one control code including contacts of both direction locking relays, whereby each direction locking relay when operated renders said remote control system ineffective to change the condition of said system of circuits, means effective when either signal lever is reversed for operating the direction locking relay for the traffic direction governed by such lever in response to a block clear indication received by the associated block indication relay, means for releasing said direction locking relay effective only when said block indication means indicates that the block is clear, the last operated signal lever occupies its normal position and said signal indication means indicates that the signals controlled thereby are at stop, a starting circuit controlled by each direction locking relay for automatically initiating the transmission of a control code by said remote control system which serves to restore said system of circuits to its normally deenergized condition, and means controlled by the associated block indication relay for completing such starting circuit concurrently with the release of said direction locking relay.

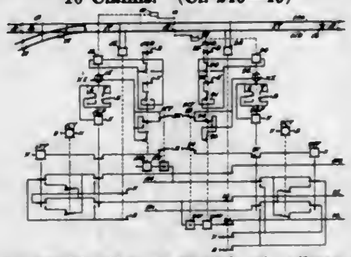
6. Railway traffic controlling apparatus comprising a first and a second track section, a code transmitter for each section which when energized supplies current to the rails of its section, a track relay arranged to be connected across the rails of the first section when the code transmitter for that section is released, an approach relay responsive to the current supplied to the second section, a repeating relay which is operated by said approach relay when a train approaches within a predetermined distance in said second section, means at the remote end of said first section for supplying code impulses thereto to periodically energize said track relay, a circuit including a back contact of said track relay for periodically energizing the code transmitter for the second section to repeat said impulses into said section to govern said approach relay, a circuit including back contacts of said track relay and of the code transmitter for the second section, and a contact of said repeating relay for briefly energizing the code transmitter for the first section to deliver feed back impulses to said first section, and means at the remote end of said first section responsive to said feed back impulses for indicating the condition of said approach relay.

2,638,536

FOUR-INDICATION SIGNAL CONTROL SYSTEM EMBODYING POLAR BIASED CODE FOLLOWING AND POLARIZED LINE RELAYS

Thomas W. Tinsard, Jr., Downers Grove, Ill., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application April 5, 1947, Serial No. 739,694
10 Claims. (Cl. 246—46)



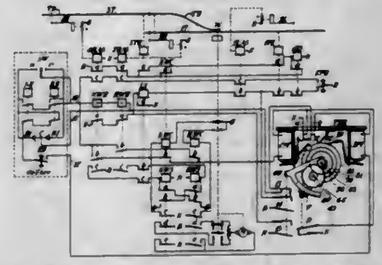
1. In combination, a stretch of railway track divided into three successive blocks, a signal adjacent one end of said stretch for governing traffic movements over said stretch, a slow release polarized relay, a polar biased code following relay, means controlled by traffic conditions for energizing said relays by constant current of normal polarity when said three blocks are unoccupied and for energizing said relays by periodically interrupted current of reverse polarity when the first two blocks in advance of said signal are unoccupied while the third block is occupied and also for energizing said relays by constant current of reverse polarity when the first block in advance of said signal is unoccupied while the second block is occupied but said means ineffective to energize said relays if the first block in advance of said signal is occupied, and means controlled by said relays when energized by current of normal polarity for controlling said signal to display a high speed indication and when energized by periodically interrupted current of reverse polarity for controlling said signal to display a medium speed indication and also when energized by constant current of reverse polarity for controlling said signal to display a low speed indication and when deenergized for controlling said signal to display a stop indication.

2,638,537

RAILWAY SWITCH CONTROLLING APPARATUS

Harry C. Van Tassel, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application October 14, 1950, Serial No. 190,182
8 Claims. (Cl. 246—219)



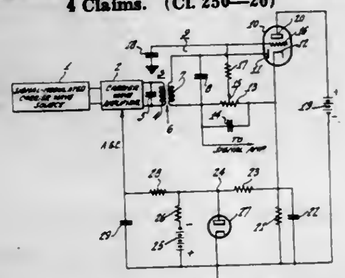
1. In a system for controlling a railway track switch from a remote point, said system having signals for governing the movement of traffic over the track which includes the switch and having one or more track relays the energization of which indicates that said track is not occupied by a train, said system also having switch operating means controllable from said remote point when said signals are at stop to change the position of the switch, said operating means being normally controllable only after said track relay or relays become energized following the movement of a train over the switch; emergency apparatus for enabling said switch operating means to be actuated irrespective of the condition of the track relays, comprising a switch lever and an emergency button at said remote point, a code responsive selector at the switch location having a drive magnet, a control magnet, and contacts which move from a normal at rest position to a closed position when the control magnet is energized and a code signal is supplied to the drive magnet, an emergency key at the switch location; a circuit for energizing said control magnet which is closed when said emergency key is operated provided said signals are at stop but only if said switch lever and the track switch are in noncorresponding positions, a circuit controllable by said emergency button effective only so long as said control magnet is maintained energized by the operation of said emergency key for supplying a code signal to said drive magnet, and means controlled by the contacts of said selector for actuating said switch operating means when said code signal is fully received, to thereby cause the switch to assume a position corresponding to that of said switch lever.

2,638,538

AUTOMATIC GAIN CONTROL SYSTEM

Harry Ruben, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application May 27, 1949, Serial No. 95,693
4 Claims. (Cl. 250—20)



1. A system for developing an automatic gain control voltage, comprising a source of signal-modulated carrier waves, the level of which is subject to variation, means coupled to said source to demodulate said carrier waves, thereby to develop a first unidirectional voltage of predetermined polarity relative to a reference potential, said voltage being modulated in accordance with said signals and varying in level in accordance with level variations of said carrier waves, an electronic amplifier tube having a cathode circuit, and impedance device connected in said cathode circuit, said electronic tube being coupled to said demodulating means to develop across said cathode impedance device a second unidirectional voltage of opposite polarity relative to said reference potential and varying in level in correspondence with said first unidirectional voltage, a source of a fixed unidirectional voltage of said predetermined polarity, said fixed unidirectional voltage source being connected in shunt with said cathode impedance device in opposite polarity to the voltage developed across said impedance device for combining said second unidirectional voltage and said fixed unidirectional voltage to develop an automatic gain control voltage varying in magnitude in accordance with level variations of said carrier waves, and unidirectional conducting means connected in shunt with said fixed unidirectional voltage being operable to prevent voltage of a predetermined polarity from being produced by the combination.

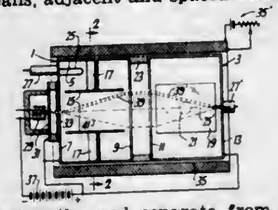
2,638,539

APPARATUS FOR CONVERTING ELECTRICAL FREQUENCY VARIATIONS INTO AMPLITUDE VARIATIONS

Carmen L. Cuccia, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 28, 1949, Serial No. 95,976
8 Claims. (Cl. 250—20)

4. An electrical system comprising: means for generating an electron beam along a predetermined initial path; means for establishing a constant magnetic field substantially parallel with said path; means, including first electrode means adjacent said path and a source of variable frequency voltage coupled to said electrode means, for establishing an alternating electric field of variable frequency transverse to said path and said magnetic field, for causing the electrons of said beam to traverse spiral paths having radii dependent upon the net energy absorbed by said electrons from said electric field; and second electrode means, adjacent and spaced laterally from



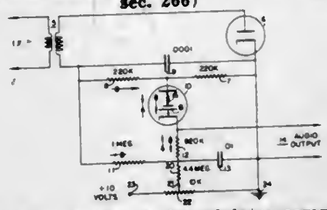
said spiral paths and separate from said first electrode means, for inductively extracting spiral energy from said beam.

2,638,540

BIASED SERIES-TYPE NOISE LIMITER AND SILENCER

Emerick Toth, Takoma Park, Md.

Application October 31, 1947, Serial No. 783,421
1 Claim. (Cl. 250—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In a radio receiver, a demodulator comprising, detecting means including a first diode and a first impedance connected in series, an output terminal, a second diode serially connecting said output terminal to an intermediate point in said first impedance, an output load impedance having one end connected to said output terminal, a resistance-capacitance time constant circuit having its resistance leg serially connecting the other end of said load impedance to one end of said first impedance to supply the average level of the detected voltage to said second diode as a delay bias, a voltage source of higher potential than the combined contact potentials of said first and second diodes, a voltage divider connected between said voltage source and the other end of said first impedance, said voltage divider having a variable tap, and high impedance means connecting said variable tap to the junction of the resistance leg of said time constant circuit and said load impedance.

2,638,541

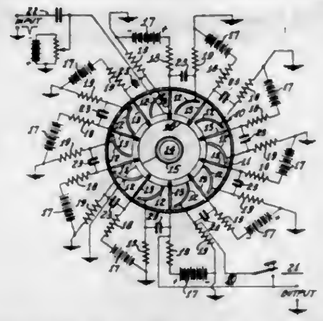
IMPULSE COUNTING TUBE

John T. Wallmark, Bromma, Sweden, assignor to Radio Corporation of America, a corporation of Delaware

Application September 7, 1949, Serial No. 114,391
14 Claims. (Cl. 250—27)

1. A counting tube comprising an evacuated envelope enclosing a source of primary electrons, a plurality of counting stages each including a secondary emitter electrode and a collector electrode, each of said secondary emitter electrodes being positioned to receive primary electrons from said source thereof, means positioned in the path of primary electrons from said source toward each of said collector electrodes for preventing primary electron current from being drawn from said source by said collector electrodes, a control grid between said source of

electrons and said counting stages for responding to a negative voltage to cut off the flow of primary electrons to said secondary emitter electrodes, each of said secondary emitter electrodes and each of said collector electrodes being insulat-



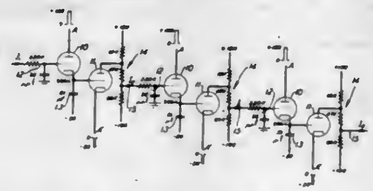
ingly supported with respect to all of the other electrodes, and means extending individually from these electrodes to the outside of said envelope for connecting them individually to external circuit elements.

2,638,542

SHIFT REGISTER

Howard M. Fleming, Jr., Basking Ridge, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application January 31, 1952, Serial No. 269,313
11 Claims. (Cl. 250—27)



1. In a shift register stage, a pair of electron tubes each having an anode, a cathode and a control grid, an integrating circuit through which signals of one or the other of two given potentials are applied to the control grid of a first tube of the pair, a source of negative potential to which the cathode of the first tube is connected, a condenser between said source and said cathode, a direct coupling from said cathode to the control grid of the second tube of the pair, a voltage divider connected to the anode of the second tube and having a center tap which assumes one of said two given potentials when the opposite one thereof is applied to the grid of the first tube, the anode of the first tube having applied thereto at regular intervals in synchronism with the application of said signals to the integrating circuit positive pulses which are of short duration as compared to said intervals and to the time constant of the integrating circuit, the cathode of the second tube having negative pulses applied thereto in synchronism with said positive pulses, and said condenser being such as when charged, to maintain said second tube conducting for a said interval.

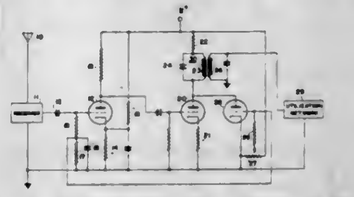
2,638,543

SQUELCH CIRCUIT

Garold K. Jensen and Jacob Benveniste, United States Navy

Application July 14, 1945, Serial No. 605,167
6 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a pulse energy operative device, a pulse energy source providing recurrent pulses of variable amplitude, a resonant circuit connected to the pulse energy source to produce sinusoidal oscillations in response to said pulses, an energy dissipative device connected to the resonant circuit, and a peak detection circuit coupling said



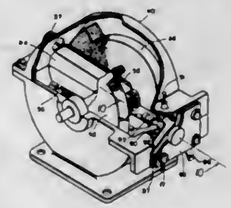
pulse energy source to said energy dissipative device operative to produce heavy damping of the resonant circuit except when pulses from the energy source have at least a preselected minimum amplitude.

2,638,544

CAVITY TUNER

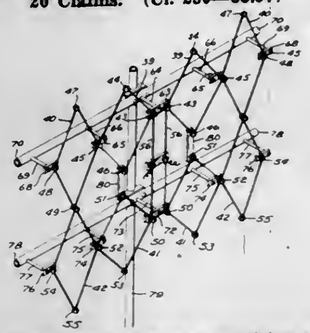
Louis W. Schreiner, Des Plaines, Ill., assignor to Raytheon Television and Radio Corporation, a corporation of Illinois

Application September 15, 1948, Serial No. 49,382
11 Claims. (Cl. 250—31)



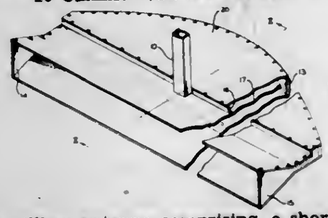
1. A tunable resonant system comprising a conducting housing having an inductive cavity therein, a conducting post secured to said housing and extending into said cavity and having an end which is spaced from a portion of said cavity, a disc member having an unsymmetrical conducting surface thereon movable adjacent said post within said cavity, the movement of said disc member with respect to said cavity and said post being effective to vary the capacity between said post and said cavity to form a tunable resonant circuit, said portion of said cavity having an opening therein, a conducting plate adapted to cover said opening, a rectifying element having the terminals thereof individually connected to said post and said plate, and an annular sheet of dielectric material about said rectifying element and positioned between said plate and said cavity to form a condenser which is connected in series with said rectifying element across said resonant circuit.

2,638,545
RADIO ANTENNA
William H. De Peau and Harry M. Pomeroy, Harrisburg, Pa.
Application May 7, 1952, Serial No. 286,540
20 Claims. (Cl. 250—33.57)



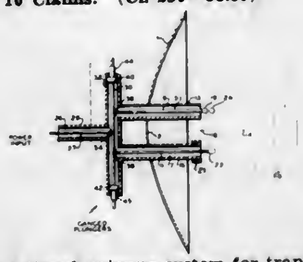
4. A broad band antenna comprising a plurality of grid units, each unit having four conductor legs joined at their ends to form a closed diamond-shaped grid structure having four apexes, said units being disposed colinearly in the same plane with their diagonals in horizontal alignment, said units extending symmetrically on both sides of a center to form a pair of series of grids, adjacent apexes of successive units on each series of grids being electrically connected, the adjacent center apexes of the two series of grids being electrically insulated from each other, and a pair of leads connected to said last mentioned apexes.

2,638,546
PILLBOX ANTENNA
Lan Jen Chu, Brookline, Mass., and Marion A. Taggart, Indianapolis, Ind., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application March 14, 1946, Serial No. 654,493
10 Claims. (Cl. 250—33.63)



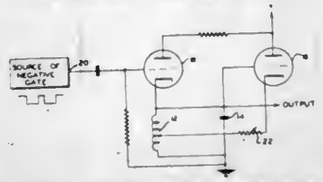
1. A pillbox antenna comprising, a short, conductive, parabolic reflecting cylinder axially terminated in first and second substantially parallel flat conductive plates, an intermediate substantially flat conductive plate centrally disposed between said first and second plates, said intermediate plate having a substantially parabolic edge within said pillbox and conforming to the curvature of said parabolic reflector, said parabolic edge being uniformly separated from said parabolic reflector, a conductive strip lying in a plane through the focal line of said parabolic cylinder separating said first and said intermediate conductive plates, and a transmission line coupled through said conductive strip to said parabolic reflector between said first and said intermediate conductive plates, said second and said intermediate plates being flared outwardly.

2,638,547
ELECTROMAGNETIC WAVE CONTROLLING APPARATUS
Thomas Joseph Keary, Brockton, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 18, 1945, Serial No. 617,141
10 Claims. (Cl. 250—33.65)



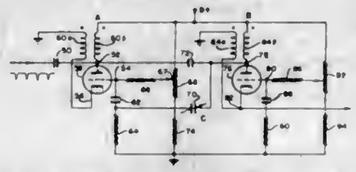
1. A directional antenna system for transverse scanning over a narrow angle, comprising a paraboloidal reflector, a dipole positioned near the focus of said reflector and substantially perpendicular to the direction of the axis thereof, a dipole positioned near the focus of said reflector and substantially parallel to the axis, means for variably apportioning high frequency electrical energy to the said dipoles, and a reflector dipole disposed in spaced relationship to and occupying a position more remote from said paraboloidal reflector than said first named dipole.

2,638,548
GATED OSCILLATOR CIRCUIT
Edward F. MacNichol, Jr., South Hamilton, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 18, 1945, Serial No. 617,137
6 Claims. (Cl. 250—36)



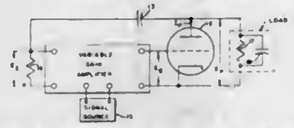
1. A circuit comprising an electron tube having a cathode, a control grid and an anode, coupled to a tank circuit located in the cathode circuit of said tube, said control grid being connected to one side of said tank circuit, said anode being connected to a power supply and thence to the opposite and grounded side of said tank circuit, said cathode being connected to an intermediate point on the inductor of said tank circuit whereby said inductor acts as an auto-transformer to supply an increased potential to said grid sufficient for a limited amount of feedback, a switch tube having a cathode, a control grid and an anode, said switch tube being shunted across said tank circuit with said tank circuit connected in the cathode circuit of said switch tube, said cathode being connected to one side of said tank circuit, said switch tube control grid being connected resistively to the opposite and grounded side of said tank circuit, and a source of timed negative voltage pulses connected to said switch tube control grid to control the intervals of oscillation of said tank circuit.

2,638,549
CIRCUIT FOR NEUTRALIZATION OF FREQUENCY DIVIDER CHAINS
Roger B. Woodbury, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 28, 1945, Serial No. 637,745
5 Claims. (Cl. 250—36)



4. A frequency dividing circuit comprising a plurality of blocking oscillators in series, each of said blocking oscillators comprising an electron tube having at least an anode, a cathode and a control grid, a transformer having the primary thereof connected between said anode and a source of anode potential and a secondary thereof connected between said cathode and a point of reference potential, a first capacitor having one terminal thereof connected to said grid, a relatively low impedance connecting a second terminal of said first capacitor to said point of reference potential, and a relatively high resistive impedance coupling said grid to a source of positive potential, means coupling a pulse output signal from one winding of said transformer of each blocking oscillator in said series to a point in the following oscillator of said series at which said pulse signal will initiate the operation of said following oscillator, and means for coupling a periodic pulse signal to the grid of the first oscillator in said series.

2,638,550
VARIABLE FREQUENCY OSCILLATOR
Frank A. Hester, New York, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware
Application August 10, 1946, Serial No. 689,792
1 Claim. (Cl. 250—36)



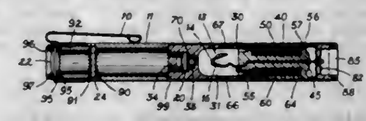
A variable frequency oscillation generator comprising a vacuum tube circuit having an input and an output, a reactive tank element connected across the output of said vacuum tube circuit, a variable gain amplifier having a 180-degree phase shift between its input and output, the amplifier being an essential integral component of the oscillation generator, circuit means coupling the output of the vacuum tube circuit to the input of the variable gain amplifier, circuit means coupling the output of the variable gain amplifier to the input of the vacuum tube circuit, one of said circuit means providing substantially no phase shift and the other providing a substantial phase shift less than 90 degrees, and means for varying the gain of said variable gain amplifier, whereby the frequency of the oscillation generator varies as a function of the gain of said integral amplifier.

2,638,551
RADIATION EXPOSURE METER
Ole G. Landsverk and Leonard E. Rasmussen, Cincinnati, Ohio, assignors to Keleket X-Ray Corporation, a corporation of Ohio
Application December 5, 1949, Serial No. 131,091
9 Claims. (Cl. 250—83.3)



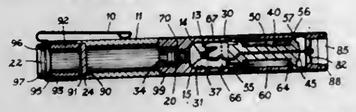
1. A device for measuring exposure to radiation comprising a supporting barrel, an electrometer mounted within said barrel, a microscope and a scale mounted in said barrel for observing and measuring the position of said electrometer, a contact member for charging said electrometer, a sealing member including an outer sleeve portion and a yieldable diaphragm portion, said diaphragm portion being light transmitting to provide light within said barrel for illuminating said electrometer, said contact member being supported in approximately the center of said diaphragm for movement therewith into and out of contact with said electrometer, and means forming a seal between said contact member and said diaphragm, said diaphragm being of progressively increasing thickness from the peripheral portion thereof adjacent said sleeve towards the center thereof to cause flexing of said diaphragm to take place primarily at the periphery thereof.

2,638,552
RADIATION EXPOSURE METER
Ole G. Landsverk and Leonard E. Rasmussen, Cincinnati, Ohio, assignors to Keleket X-Ray Corporation, a corporation of Ohio
Application December 5, 1949, Serial No. 131,092
7 Claims. (Cl. 250—83.3)



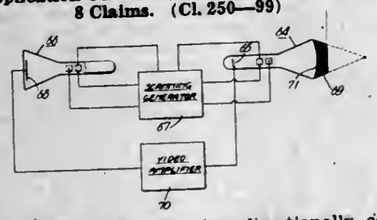
1. A device for measuring exposure to radiation over a relatively high range comprising a supporting barrel, a housing within said barrel forming an ionization chamber, an electrometer within said ionization chamber, an insulator supporting said electrometer within said housing, means securing said insulator in fixed relation with said housing to provide a firm and rigid support for said electrometer, a condenser mounted within said barrel externally of said ionization chamber, means connecting said condenser with said electrometer and said barrel to increase the capacity of said electrometer, a microscope and scale mounted in said barrel for observing and measuring the position of said electrometer, means for sealing the ends of said barrel, said sealing means being light transmitting to provide light within said barrel for illuminating said electrometer, said condenser being of tubular configuration to transmit said light through the central portion thereof, said insulator being of light transmitting material to transmit said light to said electrometer within said ionization chamber, and means operable from outside said barrel through said sealing means for applying a charge to said electrometer.

2,638,553
NEUTRON DETECTOR
Ole G. Landsverk and Leonard E. Rasmussen, Cincinnati, Ohio, assignors to Keleket X-Ray Corporation, a corporation of Ohio
Application December 5, 1949, Serial No. 131,093
4 Claims. (Cl. 250—83.3)



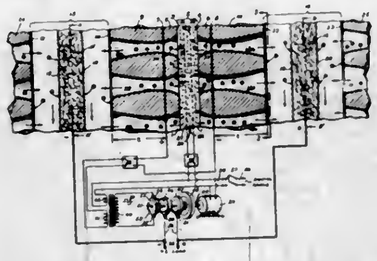
1. A device for measuring exposure to a slow neutron flux comprising a supporting barrel, means forming an ionization chamber within said barrel, an electrometer supported within said ionization chamber, light transmitting means for sealing the end of said barrel while transmitting light to said chamber for illuminating said electrometer, means operable through said sealing means for applying a charge to said electrometer and including an opaque charging member cutting off a portion of the light transmitted by said sealing means to leave a hollow tube of light rays propagated towards said electrometer, an annular condenser mounted within said barrel between said sealing member and said electrometer and connected with said electrometer and said barrel to increase the capacity of said electrometer, a microscope and a scale mounted in said barrel for observing and measuring the position of said electrometer as determined by alteration in the charge thereon, means forming a lens surface between said sealing means and said condenser of larger diameter than the inner diameter of said condenser for directing said light rays inwardly and along the axis of said device to illuminate said electrometer for viewing through said microscope, and a coating on the surface of said chamber comprising a material adapted to undergo a neutron-alpha reaction when exposed to said slow neutron flux with resulting release of alpha particles for causing ionization of the air within said chamber and resulting alteration in the charge on said electrometer in proportion to the dosage of said flux.

2,638,554
DIRECTIVITY CONTROL OF X-RAYS
John B. Bartow and Jack A. Bartow, Blue Bell, and Grey D. MacLaughlin, Jr., Perkiomenville, Pa., assignors to Bartow Beacons Inc., Blue Bell, Pa., a corporation of Pennsylvania
Application October 5, 1949, Serial No. 119,734
8 Claims. (Cl. 250—99)



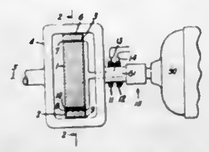
1. A device for producing directionally concentrated X-rays, comprising means for emitting electrons, an X-ray producing surface arranged to receive electrons from said first means, a lens member arranged for subjection to X-rays from said surface, said member having rectilinear X-ray transmissive elements but being otherwise non-transmissive to X-rays, said transmissive elements converging toward a focal point or area, whereby selected X-rays produced by said surface are transmitted by said elements toward a focal point or area, and means for causing impingement of electrons only on the portions of said surface adjacent to said elements.

2,638,555
HEAT-ELECTRICAL POWER CONVERSION THROUGH THE MEDIUM OF A CHARGED AEROSOL
Alvin M. Marks, Beechhurst, N. Y.
Application December 14, 1949, Serial No. 132,963
43 Claims. (Cl. 310—4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



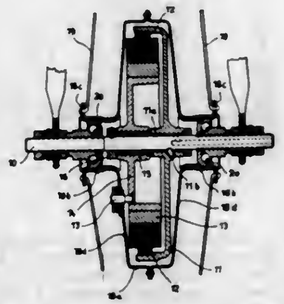
1. A method of converting heat energy into electrical energy, said method comprising ionizing the gas of an aerosol and charging the particles thereof, simultaneously increasing the velocity and decreasing the heat content of the said aerosol, passing said charged aerosol through a repelling electric field, and electrically discharging said aerosol particles.

2,638,556
ACCELERATION SENSING DEVICE
Walter Hausz, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application May 8, 1950, Serial No. 160,745
3 Claims. (Cl. 310—8.4)



2. An acceleration responsive device comprising a supporting member having an axis of rotation, at least one pair of piezoelectric elements supported by said supporting member on diametrically opposite sides of said axis of rotation, each piezoelectric element having electrical connections to opposite faces thereof and generating a voltage between said electric connections in response to a compressive force applied to said element, a material supported within said supporting member in pressure exerting contact with both said elements whereby said material exerts increased compressive force on one of said elements and decreased compressive force on the other of said elements upon an acceleration of said supporting member along a line connecting said elements, and means for rotating said supporting member about said axis whereby each element generates an alternating voltage having an amplitude responsive to the magnitude of said acceleration.

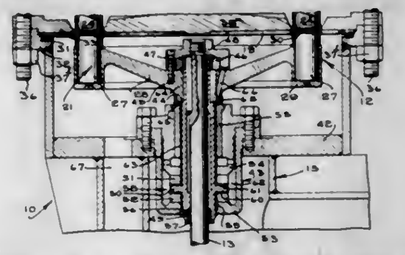
2,638,557
WHEEL HUB WITH BUILT-IN DYNAMOS, ESPECIALLY FOR BICYCLES AND MOTOR BICYCLES
Christian Leo Longert, Winterberg, Germany
Application July 7, 1950, Serial No. 172,568
In Germany July 20, 1949
7 Claims. (Cl. 310—75)



1. A wheel hub for bicycles and the like having a built-in electric generator, said wheel hub comprising a spindle fixed in a fork, a hub casing, a tubular extension projecting from said casing axially outwardly at either end thereof, bearing race means in each of said tubular extensions for rotatably disposing said housing on said spindle, a flange extending radially from each tubular extension, holes formed in each flange on a circular line thereof for anchoring the inner ends of the wheel spokes therein, the diameters of the circles defining in said flanges said spoke-anchoring holes being identical and the axial spacing between said flanges being on the order of about twice the amount of the diameters of said circles, a stator in said casing comprising a radially extending disklike wall member which is fixedly mounted on said spindle and having an annular wall extending peripherally of said disklike wall axially thereof and carrying stator coils directed radially inwardly in the direction of said spindle, a rotor in said casing comprising a radially directed disklike supporting wall extending substantially in parallel with the disklike wall member of said stator, said supporting wall being rotatably mounted on said spindle and carrying magnet means peripherally thereof for coaction with said stator coils, and a drive member carried by a wall of said casing and axially inwardly extending therefrom for direct driving coaction with said rotor.

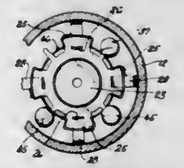
2,638,558
MAGNETIC POWER TRANSMISSION
Dan R. Rankin, Altadena, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 1, 1951, Serial No. 244,836
9 Claims. (Cl. 310—104)

1. In a fluid handling device of the class described, a magnetic power transmission arrangement comprising a plurality of driving and driven magnets rotatably supported in cooperating relationship, a member impervious to fluid flow disposed between said driving and said driven magnets, means separating said impervious member from the high pressure side of said fluid handling device, and means including a fluid passage in



communication with the high pressure side of the fluid handling device and terminating adjacent said impervious member for discharging fluid against said member to effect cooling thereof during operation of the fluid handling device.

2,638,559
ELECTROSTATIC LENS FOR CATHODE-RAY TUBES
Anacleto D. Giacchetti, Chicago, Ill., assignor to National Video Corporation, Chicago, Ill., a corporation of Illinois
Application January 19, 1952, Serial No. 267,291
5 Claims. (Cl. 313—82)

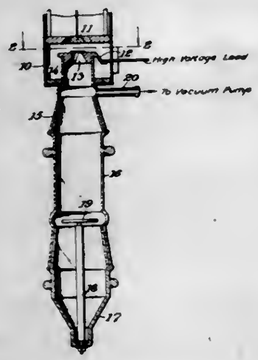


1. In a television picture tube apparatus, a dual purpose element comprising in combination with a gun assembly structure having at its forward end a pair of electrostatic lens discs and an annular lens ring formed of thin metal peripherally studded with getter pellets, a support rod for said lens ring communicating with an external source of electric potential, and additional support means for stabilizing said ring in predetermined spacing from and in concentricity with an endmost one of said lens discs.

2,638,560
IMPROVED WINDOW FOR ALPHA PARTICLE COUNTERS
Casimer J. Borkowski, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application November 13, 1945, Serial No. 628,324
5 Claims. (Cl. 313—93)

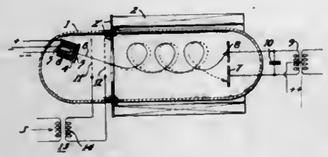
3. In an alpha-particle-responsive radiation-sensitive device, an improved window for serving as an ingress for entering alpha particles and adapted to withstand a substantial pressure differential, which comprises a film of nylon comprising essentially a polymeric condensation product of hexamethylenediamine and adipic

acid, said film being substantially distended, in its plane, outwardly in all radial directions with



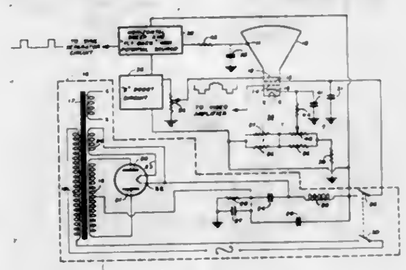
respect to the approximate geometric center of said window.

2,638,561
CATHODE-RAY OSCILLATOR TUBE
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 30, 1946, Serial No. 706,698
7 Claims. (Cl. 315—5)



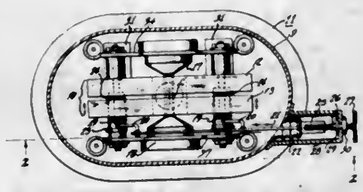
2. A cathode ray tube having means for producing a magnetic field axially thereof, means including an electron gun for projecting an electron beam into said magnetic field in a given direction at an angle to the tube axis with one velocity component in the direction of the lines of said field and another velocity component perpendicular thereto, a pair of spaced anodes mounted in said field in a plane normal to the tube axis, a pair of screens between said electron gun means and said anodes and spaced apart along the lines of said magnetic field, output terminals coupled to said anodes and input terminals coupled to said screens.

2,638,562
KINESCOPE RESIDUAL BEAM EXTINCTION CIRCUIT
Robert J. Schipper, Fort Mitchell, Ky., and Robert A. Stacy, Cincinnati, Ohio, assignors to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application June 18, 1952, Serial No. 294,238
4 Claims. (Cl. 315—20)



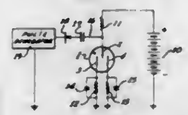
1. In a television receiver the combination comprising a kinescope having a second anode circuit including a resistance-capacitance network having a given decay time constant, a first anode, a control grid circuit and a cathode circuit; a potential source; a receiver on-off switch; a switch means ganged to open and close with said on-off switch; said switch means being connected between said first anode and said potential source; and a capacitor connected between said first anode and a potential point common to said potential source and said control grid and cathode circuits to form a circuit having a decay time constant which is longer than the given decay time constant in said second anode circuit.

2,638,563
TUNABLE MAGNETRON
John S. Donal, Jr., Princeton, N. J., Lloyd P. Smith, Ithaca, N. Y., and Barremore B. Brown, Lancaster, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application July 2, 1947, Serial No. 758,692
17 Claims. (Cl. 315—40)



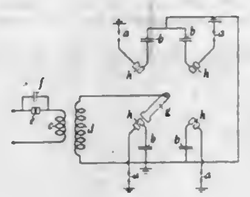
1. A tunable magnetron comprising an evacuated envelope, an anode comprising spaced relatively movable anode blocks within said envelope, a cathode positioned within said anode blocks, and means within said envelope connecting said blocks independently of said envelope, said means being adjustable for varying the effective length of said anode by adjustment of the separation between said anode blocks.

2,638,564
STABILIZING MEANS FOR COLD CATHODE TUBE FLIP-FLOP CIRCUITS
Charles R. Williams, Hawthorne, and Glenn E. Hagen, Lawndale, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application August 18, 1950, Serial No. 180,257
5 Claims. (Cl. 315—167)



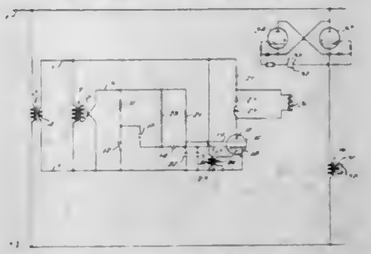
1. A glow tube switch comprising an envelope, containing a filling of gas at glow discharge pressure, an anode element in said envelope, a lead for said anode element, two cold cathode elements in said envelope adjacent said anode, first cathode resistance means connected at one end to a cathode, second cathode resistance means connected at one end to the other cathode, the other ends of said cathode resistance means being connected together to form a cathode lead, limiting resistance means directly connected to one of said leads, a potential source connected to the other of said leads, said limiting resistance means and said source being connected together in series to place said anode at a positive potential, capacity means connected between said cathode elements to hold said cathodes at a differential potential after a discharge between one cathode element and said anode element, a pulse input line connected to the lead to which said limiting resistance means is directly connected, and a rectifying element in said input line passing energy substantially only in the input direction.

2,638,565
ELECTRIC SPARK IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES
John Andrew Laird, Coventry, England, assignor to Joseph Lucas Limited, Birmingham, England
Application January 24, 1950, Serial No. 140,191
In Great Britain February 7, 1949
6 Claims. (Cl. 315—183)



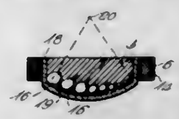
1. An ignition distributor comprising in combination a plurality of pairs of fixed electrodes, the electrodes of each pair being separated by an ionisible gap, and means consisting at least in part of a rotary member whereby the gaps between said electrodes are exposible in sequence to an ionising effect, said pairs of electrodes being situated in spaced relationship about the rotational axis of said rotary member.

2,638,566
SYNCHRONIZING SYSTEM FOR ELECTRONIC TUBES
Robert C. Mierendorf, Milwaukee, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application February 16, 1951, Serial No. 211,358
8 Claims. (Cl. 315—269)



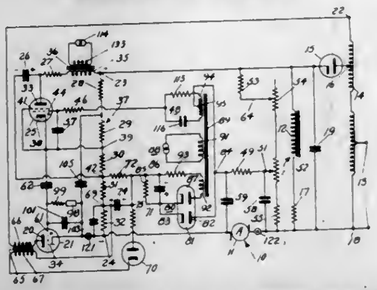
1. In a control circuit, an electronic tube having an anode, a cathode, and at least a pair of auxiliary electrodes, means for applying a first alternating voltage between said anode and cathode, means for applying a second alternating voltage displaced in phase from said first voltage between one of said auxiliary electrodes and said cathode such that said one auxiliary electrode is positive when said anode begins to go positive but negative shortly thereafter, initiating means, voltage establishing means between said cathode and other auxiliary electrode for preventing conduction of said tube until after the operation of said initiating means, means for dissipating the effect of said last mentioned means after the operation of said initiating means whereby said tube will begin conducting only during the period in which both said anode and said one auxiliary electrode are positive, and control means responsive to current flow through said tube.

2,638,567
MAGNETOSTRICTION APPARATUS
Eugene J. Cronin, San Mateo, Calif.
Application May 5, 1950, Serial No. 160,224
3 Claims. (Cl. 318—118)



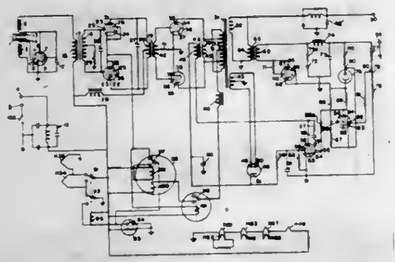
1. Magnetostriction apparatus comprising a multiplicity of spheres of differing diameters having differing magnetostrictive frequency characteristics, means for maintaining said spheres in compact relation, an electrical winding embracing all of said spheres, an oscillator circuit connected with said electrical winding, and means for tuning said oscillator circuit over a frequency range embracive of the magnetostrictive frequencies of all of said spheres for selectively sustaining the magnetostrictive frequency of any one of the magnetostrictive frequencies of said spheres and generating pressures incident thereto, the magnetostrictive pressure effects generated by said pheres being focussed at a point disposed in the center of an arc extending between two sides of the electrical winding embracing said spheres.

2,638,568
MOTOR SPEED CONTROL
Carlo L. Calosi, Cambridge, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application January 18, 1949, Serial No. 71,467
32 Claims. (Cl. 318—239)



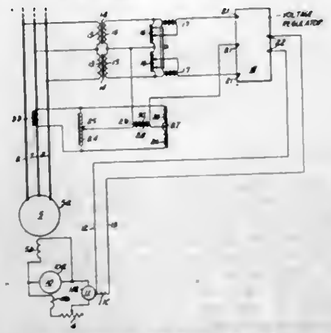
1. In combination with an electric motor having an armature and a field winding, a system for operating said motor from a periodic voltage supply comprising input terminals adapted to be connected to a periodic voltage supply, a grid-controlled gaseous rectifier connected in series with said armature across said terminals, a relaxation oscillator circuit dimensioned to provide a relatively sharp voltage pulse of shorter period than that of said supply during each period of said supply, means providing control of the point in said supply period when said pulse occurs, and circuit means furnishing said pulse to the control grid of said rectifier.

2,638,569
CONTROL CIRCUIT FOR ELECTRIC TRANSLATING SYSTEMS
William J. Holt, Jr., Garland, Tex.
Application July 30, 1949, Serial No. 107,733
18 Claims. (Cl. 321—14)



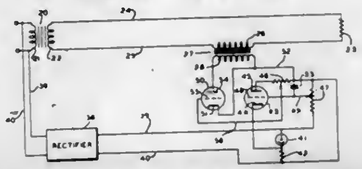
1. In combination: a direct current supply circuit; an alternating current load circuit; an energy translating means comprising an inductive winding, a capacitor in parallel with said inductive winding, and a plurality of electric valves connected between said direct current supply circuit and said inductive winding; a variable inductance connected across said capacitor and comprising a direct current saturating winding; an energizing circuit for energizing said saturating winding with direct current, said energizing circuit comprising a rectifying means operatively associated with said inductive winding; and means responsive to changes in the alternating current load circuit voltage for varying the energization of said saturating winding.

2,638,570
ELECTRIC REGULATING SYSTEM UTILIZING A PHASE REVERSING REACTIVE COMPENSATOR
Daniel J. Sikorra, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application December 2, 1950, Serial No. 198,814
5 Claims. (Cl. 322—24)



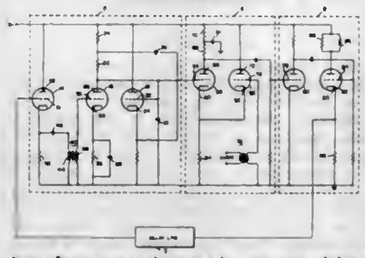
1. In combination, an alternating current generator, a load circuit connected to said generator, regulating means for controlling the voltage of said generator, a current transformer connected in said load circuit, an autotransformer having an intermediate tap, a capacitive impedance device having an intermediate terminal, means connecting said impedance device and said autotransformer in parallel with each other across said current transformer, means connected between said tap and said terminal for producing a control voltage which varies in magnitude and phase in dependence upon the magnitude and phase of said load current, means for varying the adjustment of said tap to reverse the phase of said control voltage, and means for impressing said control voltage on said regulating means to cause said regulating means to vary the voltage of said generator in response to variations in the phase and magnitude of said load current.

2,638,571
STABILIZATION OF FILAMENT SUPPLY VOLTAGE
Howard L. Schultz, Wellesley, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 14, 1945, Serial No. 616,392
3 Claims. (Cl. 323—66)



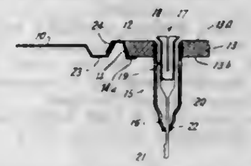
1. A voltage regulating system comprising, a source of alternating current potential, a load, a transformer having primary and secondary coils, said source, said primary coil and said load being connected in series circuit relationship, a rectifier circuit connected across said source, said rectifier circuit having first and second output terminals, a first electron tube having at least an anode, a cathode and a control grid, an anode load resistor coupled between said anode of said first electron tube and said second terminal of said rectifier circuit, means connected at least to said cathode of said first electron tube and said first terminal of said rectifier circuit for maintaining said cathode at a fixed potential relative to said first terminal of said rectifier circuit, means coupled between said first and second terminals of said rectifier circuit and to said grid of said first electron tube for coupling to said grid a selected fraction of the signal appearing between said first and second terminals, a second electron tube having at least an anode, a cathode and a control grid, said anode of said second control grid being coupled to one end of said secondary coil, said cathode of said second electron tube being coupled to the other end of said secondary coil, and means coupling said grid and said cathode, respectively, of said second electron tube to separate points on the anode load resistor of said first electron tube, whereby the signal appearing across said anode load resistor of said first electron tube is applied as the grid-cathode signal of said second electron tube, and whereby fluctuations in said source of alternating current potential cause variations in the grid-to-cathode potential of said second triode tube thereby causing changes in the impedance presented by said primary coil in said series circuit.

2,638,572
PULSE MODULATION SYSTEM
Georg J. E. Goubau, Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application May 25, 1951, Serial No. 228,349
7 Claims. (Cl. 332—9)
(Granted under Title 35, U. S. Code (1952), sec. 266)



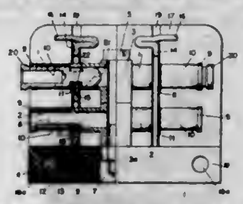
1. A pulse generator system comprising, in combination, means for generating a periodic voltage of saw-tooth waveform, a source of modulating voltage, means connected to said modulating voltage and the output circuit of said saw-tooth generating means for combining said saw-tooth voltage and said modulating voltage whereby the amplitude level of said saw-tooth voltage is substantially proportional to the amplitude of said modulating voltage, a pulse forming circuit connected to the output of said last mentioned means for generating signal pulses having a frequency which varies in inverse proportion to the amplitude of said modulating voltage, said pulses being generated at a period corresponding to the peaks of said saw-tooth voltages, and a delay line connected between said pulse forming circuit and the input circuit of said generating means to terminate the period of said saw-tooth voltage a predetermined time after the initiation of said pulses.

2,638,573
HERMETIC SEAL HAVING FLOATINGLY MOUNTED SOCKET CONTACTS
Mannes N. Glickman, Michael Kiebanoff, and Samuel W. Neidorf, Nutley, N. J.
Application November 17, 1949, Serial No. 127,984
2 Claims. (Cl. 339—64)



1. A hermetically sealed device comprising a vitreous body, a plurality of elongated tubular metal members embedded within said body and disposed in a predetermined spaced relation to each other, each of said members having a coefficient of expansion substantially equal to that of said body and comprising a portion in bonded relation to said body and extending to one face thereof, and another portion spaced from said first mentioned portion and extending beyond the other face of said body, a jack having a coefficient of expansion different from that of said body mounted in each of said tubular members, said jack including a portion fixedly attached to said tubular member at the second mentioned portion thereof, a flexible stem portion extending from said attached portion and a socket receptor portion extending from said stem portion, said receptor portion being adapted to receive and frictionally grip a prong of a multi-prong device wherein each prong is normally disposed in alignment with a complementary jack of said device, the stem portions of said jacks being adapted to be laterally displaced to align the receptor portions thereof with misaligned prongs complementary thereto.

2,638,574
PLUG AND SOCKET HAVING A SPRING-PRESSED LATCH
Charles Duncan Henry Webb, Ilford, England, assignor to The Plessey Company Limited, Ilford, England, a British company
Application May 24, 1949, Serial No. 95,077
In Great Britain February 26, 1949
1 Claim. (Cl. 339—91)



In a socket coupling for electrical wiring systems the combination of a base plate having upstanding parallel walls with diametrically opposed vertical guide slots therein, a centre pillar fixed to the base plate between the walls, at least one double ended resilient socket member mounted in said pillar for receiving grooved inserts, each socket end consisting of a tubular member with a longitudinal slit which terminates into a latch slot, a spring surrounding each socket being connected to the slit therein, a separate spring loaded depressible latch plate inserted over each

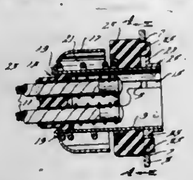
end of the sockets and slidable in the vertical guides in the walls, each said latch plate formed with stirrup-shaped latches which encircle the sockets and extend into the latch slots therein whereby grooved inserted lugs are locked to said sockets.

2,638,575

APERTURED PANEL SOCKET MOUNT

Robert D. Winkelmeyer, Cincinnati, Ohio, and Vincent R. Herterick, Sturgis, Mich., assignors to Wade Electric Products Company, Sturgis, Mich., a corporation of Michigan

Application November 3, 1949, Serial No. 125,292
12 Claims. (Cl. 339—127)



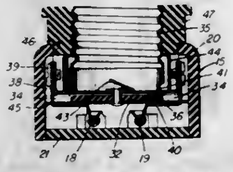
1. In a removable attachment for panels having circular apertures with a radial keyway opening thereinto, the combination of a member capable of passing through the circular aperture, a flange secured to the member of less than the diameter of the circular opening and having a radial ear of larger radius passable through the keyway whereby said flange may be inserted through the aperture, but upon rotation thereof so that the ear is not in alignment with the keyway may not be removed through the aperture, a spring pressed sealing member journaled on the member having an axial projection normally in yieldable engagement with said flange ear, said projection being receivable in the keyway of the panel aperture to prevent rotation of the sealing member, said sealing member having an imperforate body which overlies and seals the opening in said panel.

2,638,576

LAMP HOLDER MOUNTED ON CONTINUOUS CONDUCTOR

Joseph F. O'Brien, Lebanon, John B. Cataldo, Annandale, and Kenneth E. Vroom, Summit, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application November 16, 1948, Serial No. 60,286
1 Claim. (Cl. 339—175)



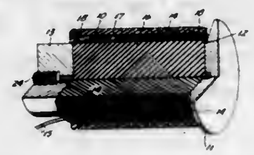
A lamp holder comprising a base of insulating material; a metallic shell fixed to one face of said base and extending substantially at right angles therefrom, said shell being corrugated to form a helical thread therein for reception of the stem of an electric light bulb; a conductor bar fixed to said base in electrical contact with said shell extending outwardly of said base therefrom; a second conductor bar fixed to said base for contact with the axial end contact of the electric light bulb extending outwardly of said base in opposite direction to that of the first-named conductor bar; conductor clips for engaging each of two bared electrical conductors of an insulated conductor strip disposed adjacent said base; and an attachment prong formed on each of said clips, one of said attachment prongs being connected to each of said conductor bars; in combination with an arched cover of insulating material, having a circular opening therein through which said shell extends beyond said top; a bottom of insulating material closely fitting with said cover to inclose said base and the elements connected thereto and to surround closely the insulation of the conductor strip beyond the ends of said clips; and a threaded bushing of insulating material externally engaging the threads of said shell and bearing upon the outer surface of said cover to draw said shell, said base, and the elements connected to said base within said cover; whereby an electric light bulb screwed into said shell and in contact with said second conductor bar at the end of its stem will be connected in circuit between the conductors of the conductor strip.

2,638,577

TRANSDUCER

Wilbur Thomas Harris, Southbury, Conn., assignor to The Harris Transducer Corporation, Southbury, Conn., a corporation of Connecticut

Application November 15, 1949, Serial No. 127,437
19 Claims. (Cl. 340—10)



1. In a transducer of the character indicated, a hollow generally cylindrical member to be filled with a material having substantially the sound-transmitting characteristics of the sound-transmitting medium in which said transducer is to be immersed, diaphragm means susbtantially closing one end of said cylinder, counterweight means effectively closing the other end of said cylinder, the natural resonance characterizing the coupling between said diaphragm means and said counterweight means and the natural radial-flex resonance of said cylindrical member being at different frequencies, and means electrically responsive to transient generally radial stressing of said cylinder, whereby upon a sound-generated displacement of said diaphragm the walls of said cylinder may be subjected to generally radial stress with substantially uniform response between said frequencies, so that there may be broad-band electrical output from said electrically responsive means.

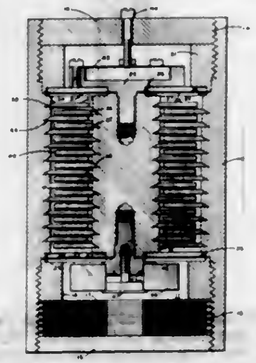
2,638,578

SEISMOMETER

Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application February 11, 1952, Serial No. 270,923
20 Claims. (Cl. 340—17)

1. A capacitive seismometer comprising, in combination, a casing having an interior passage, spaced end caps closing off the ends of said passage, a coil mounted within said passage and engaging one of said end caps, means for maintaining said coil in fixed position against said one end cap, a suspended element, a pair of spring suspension units movably mounting said suspended element within said passage, an armature secured to said suspended element and closely spaced to said coil, said casing having an interior passage, a helical metal condenser ele-



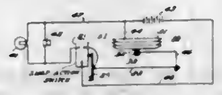
ment disposed within said passage, said suspended element having an exterior helical metal condenser element contiguous to and interlaced with the element disposed within said passage, whereby relative movement between said suspended element and said casing produces a change in capacitance between said metal elements and energization of said coil moves said armature and suspended element toward and away from said coil.

2,638,579

STALL WARNING APPARATUS FOR AIRPLANES

Howard E. Dyche, Jr., Pittsburgh, Pa., and Gilbert P. Cardwell, Detroit, Mich., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 1, 1948, Serial No. 30,307
7 Claims. (Cl. 340—27)



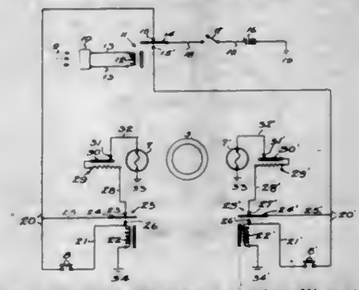
1. Stall warning apparatus for airplanes comprising, an electrically-operated warning device, an energizing circuit for said warning device including a control switch for controlling the energization of the warning device, means including an electrically-heated expansible element connected to mechanically actuate the control switch, a heating circuit for said element, switch means operated by said control switch for controlling said heating circuit, and means including a pressure switch responsive to variations in pressure differential resulting from changes in air flow conditions over the upper surface of the wing for actuating said switch means.

2,638,580

MEANS FOR INDICATING MAXIMUM AND MINIMUM LIGHTING CONDITIONS

Rex E. Lovejoy, Los Angeles, Kenneth A. Smith, Burbank, Frank A. Harrington, Brea, and Jerry K. Harter, Los Angeles, Calif., assignors to Marco Industries Company, Beverly Hills, Calif., a corporation of California

Application February 27, 1952, Serial No. 273,716
7 Claims. (Cl. 340—228)



1. In a warning system for signalling to an operator the necessity for adjusting an indicator for either maximum range or minimum range ambient light condition: a pair of electrically operable signal devices, one for indicating a low ambient light level and the other for indicating a high ambient light level; a source of electric power for energizing said devices; a pair of power leads for the respective devices; a single pole, double throw sensitive relay having an armature arranged to receive current from said power source and a pair of contacts each connected to a respective one of said power leads, said armature being self-closing on one of said contacts; a photocell connected to said relay to energize the same to move said armature into engagement with the other contact when ambient light is within the maximum range, the output of said photocell being such that said armature will engage said one contact when ambient light is within the minimum range; a pair of connecting relays, each of a single-pole, double-throw type and each having a self closing position in which it completes a circuit through a respective power lead to a respective signal device, and each including electromagnetic means adapted, when energized, to shift the respective relay from said self closing position so as to open said circuit; and an energizing circuit for each of said connecting relays, each of said energizing circuits including a manually operable switch for energizing the respective relay to its circuit-opening position; each of said connecting relays including means for establishing a holding circuit for maintaining the energization of the respective relays so long as the respective power lead remains connected to said power source through said sensitive relay.

2,638,581

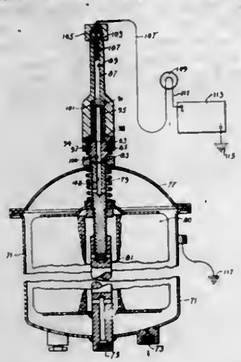
SIGNAL DEVICE FOR FILTERS

Harvey E. Marvel, Fort Wayne, Ind., assignor to The Briggs Filtration Company, Washington, D. C., a corporation of Maryland

Application June 21, 1950, Serial No. 169,342
10 Claims. (Cl. 340—240)

8. In a filter having an inlet and an outlet, the combination of an upwardly extending, transparent tube having its upper end closed, means defining a single conduit connecting the lower end of the tube with the filter inlet, a diapragm

disposed in sealing relation across the tube, a gas confined in the top portion of the tube, an electrode extending into the tube adjacent the upper end thereof, an electric signal means connected



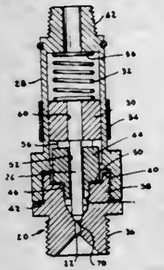
with the electrode, a current conductive liquid disposed in the tube above the diaphragm and a source of electric energy connected to said signal means.

2,638,582

INDICATING CHECK VALVE

Ralph F. Urso, Grosse Pointe, Alfred W. Gardes, Detroit, and Edward L. Carleton, Wyandotte, Mich., assignors to McCord Corporation, Detroit, Mich., a corporation of Maine

Application May 10, 1950, Serial No. 161,184
2 Claims. (Cl. 340—282)



1. In a check valve or the like including a casing of non-magnetic material having a fluid flow passage therethrough and a valve part movable within said casing in response to opening and closing of said valve, indicating means for indicating the opening and closing of said valve comprising a magnetized member slidably arranged within said casing and movable with said valve part, and an indicator member comprising a ring of magnetic material slidably disposed about said casing and within magnetic relation of said magnetized member so as to move therewith in response to opening and closing of said valve.

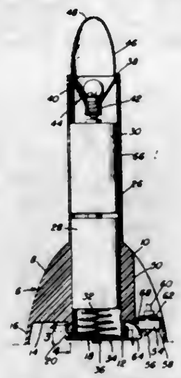
2,638,583

TABLE SIGNALING FLASHLIGHT

Greene B. Edwards, Jr., Tuskegee, Ala.

Application September 2, 1952, Serial No. 307,485
4 Claims. (Cl. 340—321)

1. In a table signaling flashlight for use in restaurants and the like, a unit constructed of commercial plastics, said unit embodying an enlarged flat-bottomed base, a vertical cylindrical casing attached to and rising above said base, and an integral lens at the upper end of the casing, said lens being bullet-shaped in form and of a cross-section less than the cross-section of the casing and providing an abutment shoulder,



said base having a central passage in axial alignment with the casing and opening through the bottom of the base, a reflector mounted in said casing and in abutting relation with said shoulder, a bulb mounted in said reflector, and batteries mounted in said passage and casing.

2,638,584

INTERMITTENT ELECTRIC LIGHT

Theodore N. Fortney, Lansing, Mich.

Application October 13, 1952, Serial No. 314,505
1 Claim. (Cl. 340—366)



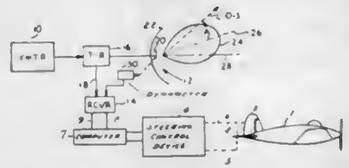
A signal light for use in connection with a motor vehicle comprising a case, the said case being provided with an opening for inserting an electric cable, a bulb, a flasher unit, the said flasher unit being housed within the said case, the said flasher unit being adapted for intermittently lighting the said bulb, a fuse, a cable extending from the said light, a plug, the said plug adapted for fitting in a socket adapted for use with a cigarette lighter, the said cable having two wires, one of the wires being secured to the case, the other wire being secured through the said fuse, through the flasher unit and to the socket of the said bulb, and hanger means for suspending the said light, the said hanger means being pivotally secured to the lower side of the said case, a housing, the said housing being disposed substantially at the lower side of the said case and being integral with the said case, the said housing being adapted for storing the said hanger means, when the said hanger means is not in use, and leg means for placing the said light on a flat surface.

2,638,585

RADIO-LOCATOR SYSTEM

William F. Priest, Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware

Application September 2, 1947, Serial No. 771,577
9 Claims. (Cl. 343—7)



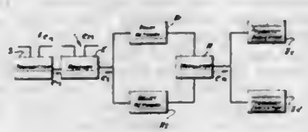
7. In a radiant energy system for determining the angular deviation between a reference axis on an airborne object and the line-of-sight between the object and an airborne target, the combination comprising: radiating means for projecting electromagnetic energy into space in a solid conical angle, the axis of said conical angle coinciding with said reference axis; means for receiving the projected energy after reflection from the target; means for harmonically analyzing the received energy to produce a first output signal representing the ratio of the magnitude of the second harmonic component to the magnitude of the fundamental component of the modulation waveform of the received energy, the magnitude of said first output signal being proportional to the magnitude of the angular deviation; and means electrically coupled to said radiating means and to said receiving means for producing a second output signal representing the direction of the angular deviation.

2,638,586

DISTANCE AND SPEED INDICATING SYSTEM

Gustav Guanella, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York

Application September 22, 1948, Serial No. 50,520
In Switzerland October 27, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 27, 1963
7 Claims. (Cl. 343—9)



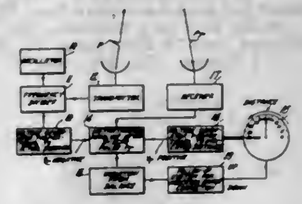
1. In a distance determining system, the combination which comprises a source of high-frequency waves, means for cyclically frequency-modulating said source with the frequency thereof increasing and decreasing alternately at substantially equal rates, a transmitter for radiating the frequency-modulated waves towards a distant object, means for receiving and heterodyning the transmitted waves after reflection from said object with wave energy supplied directly from said source, to produce beat energies having a frequency varying alternately in accordance with the sum and difference, respectively, of the distance and speed of said object with respect to said transmitter due to Doppler effect, means for deriving a pair of beat energies from said heterodyning means and for relatively time-delaying said beat energies, and intermodulating means energized by both said beat energies.

2,638,587

PULSE ECHO ALTIMETER WITH MECHANICALLY DRIVEN INDICATOR

Randall C. Ballard, Trenton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 18, 1949, Serial No. 77,178
10 Claims. (Cl. 343—13)



1. A pulse-echo distance measuring system comprising: means for transmitting a pulse of radio energy to a reflecting object; means for receiving said pulse after reflection; means for generating a first voltage having one polarity and an amplitude that is a periodic function of the distance traveled by said pulse; means for visually indicating the distance between said transmitting means and said object; means for generating a second voltage having a polarity opposite to that of the said first voltage and an amplitude that is a function of the indicated distance; means for resolving the polarities and the amplitudes of the said first and said second voltages into a differential voltage; means responsive to said pulse-receiving means for instantaneously sampling said differential voltage; a follow-up system connected to said distance indicating means and controlled by said sampled differential voltage, whereby the said follow-up system moves said distance indicating means to such a position that the said differential voltage is zero and the said indicating means indicates the true distance of said transmitter to said object.

2,638,588

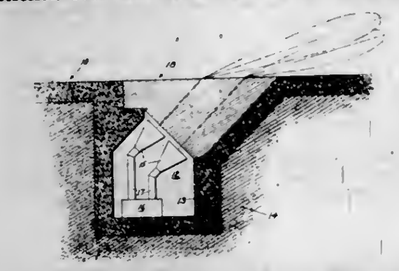
ELECTROMAGNETIC-RADIATING SYSTEM

Henry J. Riblet, Wellesley Hills, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application October 20, 1950, Serial No. 191,269
3 Claims. (Cl. 343—101)

1. An electromagnetic-radiating system comprising an aircraft-landing runway having a recess therein, electromagnetic-wave radiating horn

means positioned in said recess, and a low-loss dielectric electromagnetic-wave energy lens positioned over said radiating means, the surface



of said lens adjacent said radiating means being substantially perpendicular to the direction of radiation of waves from said radiating means.

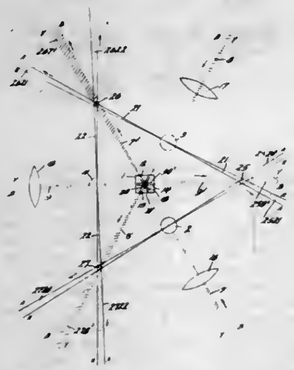
2,638,589

SYSTEM OF RADIO AIDS FOR AERIAL NAVIGATION IN THE VICINITY OF AIRPORTS

Raymond G. Lloyd, La Grange Park, Ill., and Walter H. Young, Bethesda, Md.

Application June 12, 1950, Serial No. 167,554

4 Claims. (Cl. 343—107)



1. In radio control systems for landing and dispatching aircraft, an airport having three elongated runways arranged at substantially equal angles to each other respectively, three double directional beam radio range stations located at substantially equal distances from the airport and each being in a position in substantial elongation of one of the respective runways, one of the beams of each station being directed so as to cross the airport thus providing navigational courses directed directly toward the airport for approach for landing, and also providing elongational courses for departure, each approach and departure course, angularly considered, being entirely clear of all of the other said courses, provided by said range stations, outside the limits of the airport.

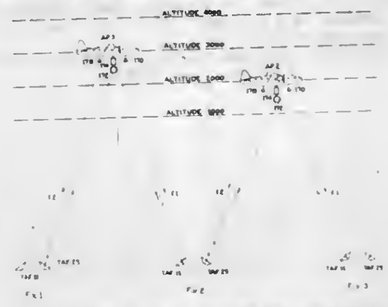
2,638,590

STRAIGHT COURSE LOCATOR FOR AIRPLANES

Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Original application August 30, 1945, Serial No. 613,600, now Patent No. 2,509,632, dated May 30, 1950. Divided and this application October 27, 1949, Serial No. 123,845

2 Claims. (Cl. 343—112)

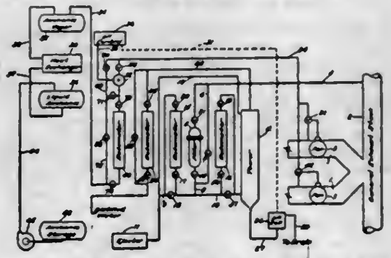


1. An airplane route delineating system having airplane route indicating apparatus comprising in combination, an automatic direction finder having a shaft with a first directional antenna rotated thereby effective when tuned to the frequency of a ground station in advance of the airplane to always maintain the shaft rotated so as to direct said antenna toward said station in advance, a second directional antenna rotated by said shaft and directed at right angles to said first directing antenna so as to receive minimum radiated energy from a station in the rear transmitting at a distinctive frequency, said second directional antenna being effective to receive minimum radiated energy only when the line of flight of the airplane coincides with the straight line distance between the advance and rear transmitting stations, radio receiving apparatus on the airplane tuned to the frequency of the station in the rear and associated with said second direction antenna, said radio receiving apparatus having its output variable from maximum to minimum in accordance with the radiated energy received by said second antenna from the station in the rear, other radio receiving means having an omni-directional antenna tuned to the frequency of the station in the rear, a cathode ray tube having oppositely disposed deflecting means for governing the relative position of a beam on the screen of the tube, a transformer for each of said deflecting means of the cathode ray tube, said transformer having two primary windings, circuit means connecting the output of said radio receiving apparatus to one of the primary windings of each of the transformers, said circuit means connecting the primary windings of the two transformers oppositely, circuit means connecting the output of said other receiving means to the other of the primary windings of each of the transformers, said circuit means having the same phase connections for both transformers, and circuit means connecting the outputs of the transformers to their associated deflecting means respectively.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

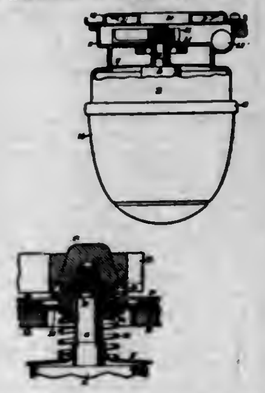
65,691. **SYSTEM FOR DETECTING AND NEUTRALIZING TOXIC GASES.** Robert J. Schrader, Kingsport, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 16, 1948. Published May 12, 1953. Class 23—254. 2 sheets of drawings. 15 pages of specification.



This application relates to a system for detecting and neutralizing toxic gases, such as phosgene, which may escape from processing or other equipment into areas occupied by personnel, and which may constitute a health hazard. In the system a steam ejector 11 draws a discharge sample from stack 2, and lines 4 and 10 serve to feed it to a water absorption tower 12, where the continuous supply of water thereto provides a counter current flow. The water supplied to the tower 12 for absorbing the toxic gas from the air sample is of constant pH. The pH cell 26 receives the discharge from tower 12 and measures the pH thereof. The pH control 30 operates in response to the action of pH cells 26 to actuate an ammonia injection valve 32 which discharges ammonia gas from an ammonia vapor source 35 through line 34 into the ventilation exhaust stack 2 to neutralize the toxic gas present in accordance with the pH of the water after it has contacted the sample air stream.

85,820. **FACE TYPE SHAFT SEAL FOR WASHING MACHINES.** Malcolm G. Doyle, Natick, Mass., assignor to General Electric Company, a corporation of New York. Filed Apr. 6, 1949. Published May 12, 1953. Class 286—11. 1 sheet of drawings. 8 pages of specification.

This application discloses a face type shaft seal for a water pump, including impeller 22 enclosed by wall 33. A rotatable shaft 16 extends through wall 33 and is supported by a conventional journal 16. A sealing ring 24 is confined non-rotatably on shaft 15 with impeller 22 fixed rigidly on the shaft and a deformable member 26 under compression between the impeller and sealing ring 24. A cooperating seal member 27 has a barrel portion 27a disposed around the shaft and a radially extending head 28 for substantial surface engagement with sealing ring 24. Seal member 27 is provided with an annular groove 29 for retaining lubricant. A flexible fluid impervious diaphragm 30 has a neck portion in fluid tight engagement with barrel portion 27a commencing immediately beneath the head of seal member 27. The diaphragm also has a rim 31 secured to wall 33 in substantial surface area contact therewith for absorbing radial displacement of the shaft with respect to the wall during rotation. The diameter of diaphragm 30 is materially



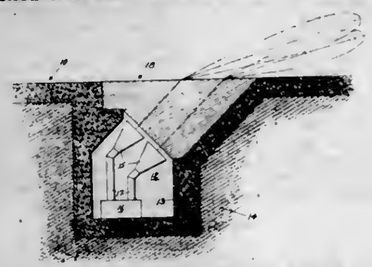
larger than the barrel diameter of seal member 27 to present a large torsion resistant area between seal member 27 and the diaphragm rim. A spring 35 envelops the neck of the diaphragm to maintain its fluid tight relationship with barrel 27a and urges seal member 27 into permanent facial contact with sealing ring 24 for preventing fluid flow through wall 33 along the rotating shaft.

117,399. **DESIGN FOR GROOVE PREPARATION FOR WELDING.** Arthur S. Binck, Scotia, N. Y., assignor to General Electric Company, a corporation of New York. Filed Sept. 23, 1949. Published May 12, 1953. Class 189—36. 1 sheet of drawings. 7 pages of specification.



A joint for use in welding parts 9 and 10 subject to stresses 15 tending to produce endwise separation thereof is formed by shaping the ends of the parts to provide directly overlying grooves 14 and 15 which are separated from one another solely by offset projections 12 and 13 which engage one another along a surface of contact 11 which is parallel to the direction of these stresses. The joint is completed by filling the grooves with weld metal and since these grooves are separated from one another solely by said projections rapid

means positioned in said recess, and a low-loss dielectric electromagnetic-wave energy lens positioned over said radiating means, the surface



of said lens adjacent said radiating means being substantially perpendicular to the direction of radiation of waves from said radiating means.

2,638,589

SYSTEM OF RADIO AIDS FOR AERIAL NAVIGATION IN THE VICINITY OF AIRPORTS

Raymond G. Lloyd, La Grange Park, Ill., and Walter H. Young, Bethesda, Md.

Application June 12, 1950, Serial No. 167,554

4 Claims. (Cl. 343—107)



1. In radio control systems for landing and dispatching aircraft, an airport having three elongated runways arranged at substantially equal angles to each other respectively, three double directional beam radio range stations located at substantially equal distances from the airport and each being in a position in substantial elongation of one of the respective runways, one of the beams of each station being directed so as to cross the airport thus providing navigational courses directed directly toward the airport for approach for landing, and also providing elongational courses for departure, each approach and departure course, angularly considered, being entirely clear of all of the other said courses, provided by said range stations, outside the limits of the airport.

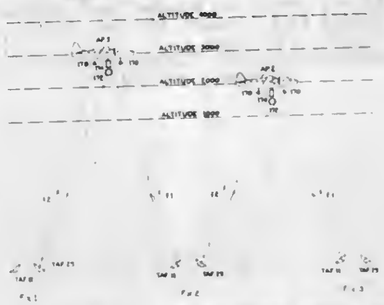
2,638,590

STRAIGHT COURSE LOCATOR FOR AIRPLANES

Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Original application August 30, 1945, Serial No. 613,600, now Patent No. 2,509,632, dated May 30, 1950. Divided and this application October 27, 1949, Serial No. 123,845

2 Claims. (Cl. 343—112)

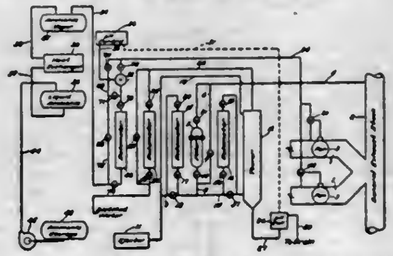


1. An airplane route delineating system having airplane route indicating apparatus comprising in combination, an automatic direction finder having a shaft with a first directional antenna rotated thereby effective when tuned to the frequency of a ground station in advance of the airplane to always maintain the shaft rotated so as to direct said antenna toward said station in advance, a second directional antenna rotated by said shaft and directed at right angles to said first directing antenna so as to receive minimum radiated energy from a station in the rear transmitting at a distinctive frequency, said second directional antenna being effective to receive minimum radiated energy only when the line of flight of the airplane coincides with the straight line distance between the advance and rear transmitting stations, radio receiving apparatus on the airplane tuned to the frequency of the station in the rear and associated with said second direction antenna, said radio remaximum to minimum in accordance with the ceiving apparatus having its output variable from radiated energy received by said second antenna from the station in the rear, other radio receiving means having an omni-directional antenna tuned to the frequency of the station in the rear, a cathode ray tube having oppositely disposed deflecting means for governing the relative position of a beam on the screen of the tube, a transformer for each of said deflecting means of the cathode ray tube, said transformer having two primary windings, circuit means connecting the output of said radio receiving apparatus to one of the primary windings of each of the transformers, said circuit means connecting the primary windings of the two transformers oppositely, circuit means connecting the output of said other receiving means to the other of the primary windings of each of the transformers, said circuit means having the same phase connections for both transformers, and circuit means connecting the outputs of the transformers to their associated deflecting means respectively.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

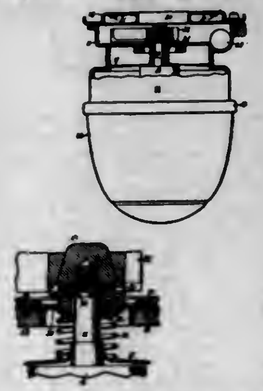
65,691. **SYSTEM FOR DETECTING AND NEUTRALIZING TOXIC GASES.** Robert J. Schrader, Kingsport, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 16, 1948. Published May 12, 1953. Class 23—254. 2 sheets of drawings. 15 pages of specification.



This application relates to a system for detecting and neutralizing toxic gases, such as phosgene, which may escape from processing or other equipment into areas occupied by personnel, and which may constitute a health hazard. In the system a steam ejector **11** draws a discharge sample from stack **2**, and lines **4** and **10** serve to feed it to a water absorption tower **12**, where the continuous supply of water thereto provides a counter current flow. The water supplied to the tower **12** for absorbing the toxic gas from the air sample is of constant pH. The pH cell **26** receives the discharge from tower **12** and measures the pH thereof. The pH control **30** operates in response to the action of pH cells **26** to actuate an ammonia injection valve **32** which discharges ammonia gas from an ammonia vapor source **35** through line **34** into the ventilation exhaust stack **2** to neutralize the toxic gas present in accordance with the pH of the water after it has contacted the sample air stream.

85,820. **FACE TYPE SHAFT SEAL FOR WASHING MACHINES.** Malcolm G. Doyle, Natick, Mass., assignor to General Electric Company, a corporation of New York. Filed Apr. 6, 1949. Published May 12, 1953. Class 286—11. 1 sheet of drawings. 8 pages of specification.

This application discloses a face type shaft seal for a water pump, including impeller **22** enclosed by wall **33**. A rotatable shaft **15** extends through wall **33** and is supported by a conventional journal **16**. A sealing ring **24** is confined non-rotatably on shaft **15** with impeller **22** fixed rigidly on the shaft and a deformable member **26** under compression between the impeller and sealing ring **24**. A cooperating seal member **27** has a barrel portion **27***a* disposed around the shaft and a radially extending head **28** for substantial surface engagement with sealing ring **24**. Seal member **27** is provided with an annular groove **29** for retaining lubricant. A flexible fluid impervious diaphragm **30** has a neck portion in fluid tight engagement with barrel portion **27***a* commencing immediately beneath the head of seal member **27**. The diaphragm also has a rim **31** secured to wall **33** in substantial surface area contact therewith for absorbing radial displacement of the shaft with respect to the wall during rotation. The diameter of diaphragm **30** is materially



larger than the barrel diameter of seal member **27** to present a large torsion resistant area between seal member **27** and the diaphragm rim. A spring **35** envelops the neck of the diaphragm to maintain its fluid tight relationship with barrel **27***a* and urges seal member **27** into permanent facial contact with sealing ring **24** for preventing fluid flow through wall **33** along the rotating shaft.

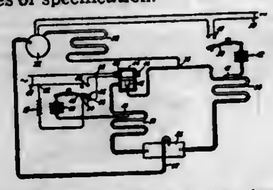
117,399. **DESIGN FOR GROOVE PREPARATION FOR WELDING.** Arthur S. Binck, Scotia, N. Y., assignor to General Electric Company, a corporation of New York. Filed Sept. 23, 1949. Published May 12, 1953. Class 189—36. 1 sheet of drawings. 7 pages of specification.



A joint for use in welding parts **9** and **10** subject to stresses **16** tending to produce endwise separation thereof is formed by shaping the ends of the parts to provide directly overlying grooves **14** and **15** which are separated from one another solely by offset projections **12** and **13** which engage one another along a surface of contact **11** which is parallel to the direction of these stresses. The joint is completed by filling the grooves with weld metal and since these grooves are separated from one another solely by said projections rapid

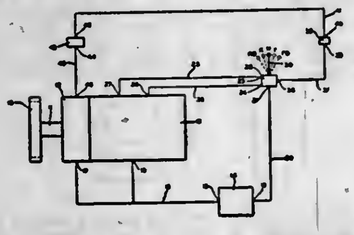
cooling of the weld metal is reduced to a minimum. The projections are normally fusible with one another during welding and the surface of contact between them is thus eliminated. If, however, these projections are not fused to one another along their surface of contact 11, the resulting weld crack is parallel to stresses 16 and is consequently non-productive of crack growth transverse of the weld joining the parts.

203,391. **CONTROL ARRANGEMENT FOR AUXILIARY COMPARTMENT FOR REFRIGERATORS.** Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York. Filed Dec. 29, 1950. Published May 12, 1953. Class 257—3. 2 sheets of drawings. 13 pages of specification.



The application discloses a two temperature control system for refrigerators including an arrangement for controlling the energization of a heater 15 which supplies heat to a butter conditioner. The system comprises the frozen food or low temperature evaporator 30 connected in parallel with the fresh food compartment evaporator 31, the latter controlled by the solenoid valve 44 and the former controlled by thermal element 42 which controls the flow of refrigerant from refrigerant unit 32 to condenser 33, evaporators 30, 31 and receiver 36 by means of switch 39 and contacts 40. Included in the system is an auxiliary circuit including the heater 15. A bellows 50 responsive to the temperature of the fresh food evaporator 31 actuates a switch 49 for simultaneously closing the circuit to the solenoid valve 44 and deenergizing heater 15. Thus the energization of the heater is inversely proportional to the refrigeration requirements of the fresh food evaporator.

271,254. **VEHICLE DRIVE MEANS.** Robert H. Davies, Shaker Heights, Ohio, assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan. Filed Feb. 12, 1952. Published May 12, 1953. Class 192—0.02. 1 sheet of drawings. 10 pages of specification.



This application relates to the combination of an electric motor 10, electrodynamic clutch means 12 and a multi-position master control switch 22 the latter of which is employed in positions "F" and "R" to effect, respectively, electrical energization of the forward and reverse drive circuits of the motor 10, and in positions "FD" and "RD" to effect, respectively, electrical energization of the electrodynamic clutch 12 in addition to the motor 10. A timer relay 38 is employed for preventing current from passing to the electrodynamic clutch 12 until a sufficient time interval has passed to permit the electric motor 10 to reach substantially normal operating speed. A variable rheostat 43 is employed for varying the amount of current flowing to the electrodynamic clutch in order to effect control over the slippage occurring between the rotating elements of the electrodynamic clutch 12 for providing smooth acceleration of the drive gear 13.

272,902. **REDUCTION OF ORGANIC NITRO COMPOUNDS.** Irving Wender and Milton Orchin, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Interior. Filed Feb. 21, 1952. Published May 12, 1953. Class 260—580. No drawing. 15 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

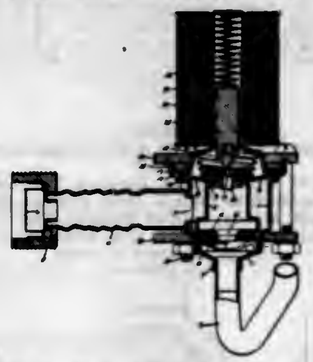
A method for the reduction of organic nitro compounds to the corresponding amines (or to the corresponding amides if an organic acid is present) by the hydrogen reduction at elevated temperatures and pressures in the presence of carbon monoxide and a homogeneous (i. e. soluble) metal carbonyl catalyst. The advantage of a homogeneous catalyst over a heterogeneous catalyst is that the latter is subject to poisoning by small amounts of impurities. If traces of a nitro compound are added to the metal or metal salt and carbon monoxide prior to the formation of the carbonyl, it inhibits carbonyl formation until a relatively high temperature is reached. In this manner where there is a choice of two products being formed with the aid of a carbonyl catalyst, one at low and another at higher temperatures, it favors the latter since the carbonyl is not formed until higher temperatures are reached. Thus, when olefins are reacted with CO and H_2 in the presence of carbonyls, the aldehyde is formed at lower temperatures (100–125° C.) and the alcohol at higher temperatures (175–200° C.). By inhibiting the formation of the catalyst until a relatively high temperature is reached, the formation of the alcohol can be made to proceed very rapidly without danger of the intermediate aldehyde undergoing polymerization.

The preferred embodiments and conditions for nitro reduction are:

(1) Cobalt or iron carbonyls
(2) Temperature ranges of from 70–250° C.
(3) Pressure ranges of from 40–300 atmospheres
(4) Sufficient CO to prevent the decomposition of the carbonyl catalyst is necessary for, if the metal is formed by decomposition, CO will poison the heterogeneous catalyst at the surface of the metal.

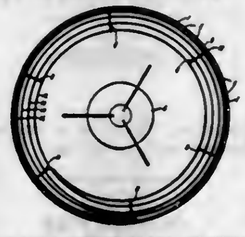
290,758. **PILOT OPERATED DIAPHRAGM TYPE CONTROL VALVE.** Winston L. Shelton, Louisville, Ky., assignor to General Electric Co., a corporation of New York. Filed May 29, 1952. Published May 12, 1953. Class 137—665. 1 sheet of drawings. 7 pages of specification.

This application discloses a diaphragm-type fluid flow control valve with a valve casing 1 having a flexible diaphragm 18 which engages a seat 9 for controlling flow of liquid. This diaphragm has little if any inherent bias tending to move it towards its seat. A pilot valve 25 is provided for producing unequal pressures on opposite sides of the diaphragm whereby inlet fluid pressure at 2 may effect movement of the diaphragm away from its seat. Effective biasing force is provided



by spring 31, which exerts pressure on the diaphragm to bias it against its seat.

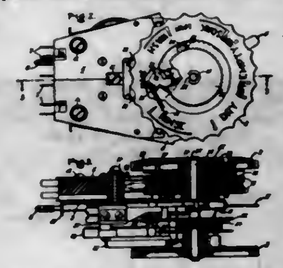
225,157. **CLOTHES RETAINER FOR WASHING MACHINE BASKETS.** Edward Powlenko, Trenton, N. J., assignor to General Electric Company, a corporation of New York. Filed May 8, 1951. Published May 12, 1953. Class 210. 1 sheet of drawings. 10 pages of specification.



This application discloses a clothes washing machine spin basket 1 having a row of circumferentially spaced liquid overflow openings 5 adjacent the upper edge. An annular clothes guard for preventing articles being washed from clogging the holes or being ejected over the top edge of the spin basket comprises a plurality of radially spaced spiral wire turns, 12, 13, 14, and 15 attached to radially extending supporting wires 8. The radially outer ends of the support wires project beyond the periphery of outermost spiral turn 15. Grommets 18 are placed in certain of the overflow openings 5, into which grommets the projecting ends of the support wires are positioned for supporting the clothes guard in the spin basket. The spiral turns are of diameters such that the guard is positioned adjacent the peripheral side wall of spin basket 1.

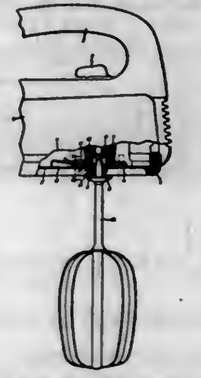
241,476. **SEQUENCE CONTROL.** Harold A. Jones, Fairfield, Conn., assignor to General Electric Company, a corporation of New York. Filed Aug. 11, 1951. Published May 12, 1953. Class 74—548. 1 sheet of drawings. 10 pages of specification.

This application relates to a sequence control of the type including a timer motor and a sequential control drum. Pawl 28 is pivotally mounted on the control drum by pin 29. Co-operating ratchet wheel 26 is rotatably driven in one direction by the timer motor, and engages the pawl to drive the sequence control drum. The manual control knob 2 for the control drum includes a recess 36 for receiving the pawl and thereby forms a cam for engaging said pawl during initial rotation of knob 2 in a direction opposite rotation provided by the timer motor. This camming action on pawl 28 is thus effective to move the pawl



out of engagement with ratchet wheel 26. A lost motion connection, including pin 34 projecting from the sequence control drum co-operable with enlarged recess 33 in the knob, permits relative movement during said initial rotation of the control knob in the opposite direction, and thereafter drivingly connects knob 2 through pin 34 to the sequence control drum.

263,611. **BEATER EJECTOR FOR FOOD MIXERS.** Donald L. McFarland, Stratford, Conn., assignor to General Electric Company, a corporation of New York. Filed Dec. 27, 1951. Published May 12, 1953. Class 259—1. 1 sheet of drawings. 6 pages of specification.

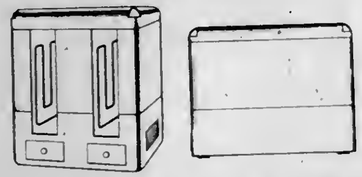


In a portable motor-driven mixer or similar device having a casing 1 with a bottom wall 5 and a beater with a shaft 10 removably held in a driven spindle 8 in the casing by a spring socket 11 engaging ears 12 on the shaft, a beater ejector is provided adjacent the spindle, in the form of a lever 18 pivoted by shoulders in the bottom wall and having a downwardly directed nose 16 which projects through the wall closely above the batter guard 13 on the beater shaft. The other end of the lever forms a finger piece which lies almost flush with the bottom wall and which can be pressed inwardly into a depression in the wall to rock the lever and eject the beater from its socket. A spring 21 holds the pivot shoulders of the lever in seating relation with the bottom wall and urges the lever toward non-ejecting position. The lever is preferably mounted between two beaters so that both may be ejected at the same time by one motion of the lever.

DESIGNS

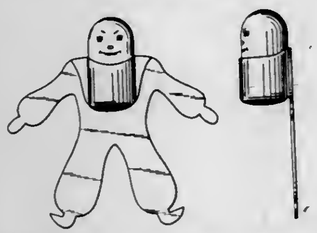
MAY 12, 1953

169,528
COMBINATION BROILER AND TOASTER
William N. Angelus, Alma, Mich.
Application August 3, 1951, Serial No. 16,143
Term of patent 14 years
(Cl. D81—10)



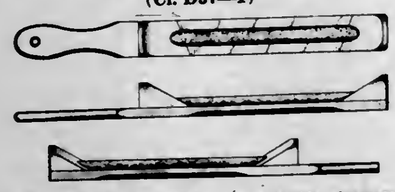
The ornamental design for a combination broiler and toaster, as shown and described.

169,529
TUMBLING TOY
Jack Baron, New York, N. Y.
Application July 28, 1951, Serial No. 16,064
In Canada June 14, 1951
Term of patent 7 years
(Cl. D34—15)



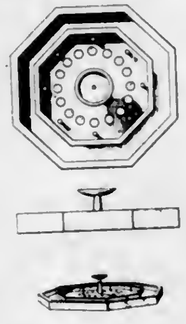
The ornamental design for a tumbling toy, as shown.

169,530
KNIFE SHARPENER
Emerson E. Case, Perry, N. Y., assignor to Robeson Cutlery Company, Inc., Perry, N. Y., a corporation of New York
Application July 23, 1952, Serial No. 20,735
Term of patent 14 years
(Cl. D37—1)



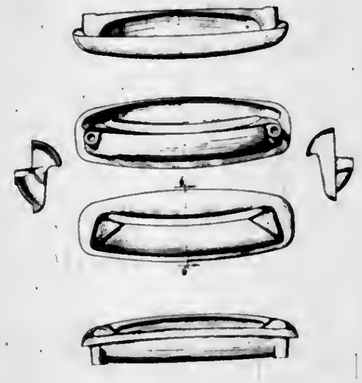
The ornamental design for a knife sharpener, substantially as shown.

169,531
COOLING BASIN FOR AIR-CONDITIONING UNIT
Marcus M. Cunningham, Houston, Tex., assignor of one-third to John R. Main and one-third to Alvin S. Moody, both of Houston, Tex.
Application January 10, 1952, Serial No. 17,999
Term of patent 14 years
(Cl. D62—4)



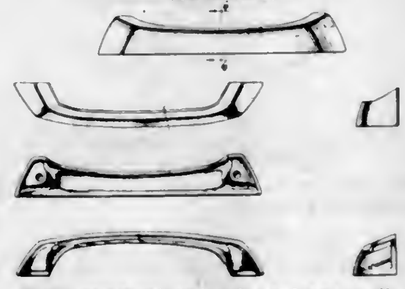
The ornamental design for a cooling basin for air-conditioning unit, as shown.

169,532
DRAWER PULL
James R. Deadrick, Winston-Salem, N. C., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application January 7, 1953, Serial No. 23,061
Term of patent 14 years
(Cl. D10—8)



The ornamental design for a drawer pull, substantially as shown.

169,533
DRAWER PULL
James R. Deadrick, Winston-Salem, N. C., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application January 7, 1953, Serial No. 23,062
Term of patent 14 years
(Cl. D10—8)



The ornamental design for a drawer pull, substantially as shown.

169,534
PERFUME VIAL
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application September 11, 1952, Serial No. 21,422
Term of patent 14 years
(Cl. D58—6)



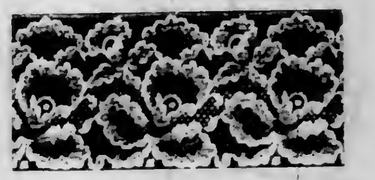
The ornamental design for a perfume vial, as shown and described.

169,535
SLIPPER OR SIMILAR ARTICLE
John E. Disch, Dolgeville, N. Y., assignor to Daniel Green Company, Dolgeville, N. Y., a corporation of Massachusetts
Application November 18, 1952, Serial No. 22,358
Term of patent 7 years
(Cl. D7—7)



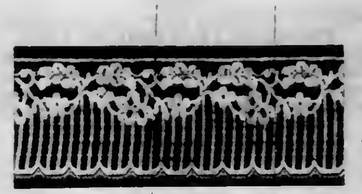
The ornamental design for a slipper or similar article, substantially as shown.

169,536
LACE OR SIMILAR ARTICLE
Bert Edson, Pawtucket, R. I.
Application November 18, 1952, Serial No. 22,357
Term of patent 3½ years
(Cl. D47—6)



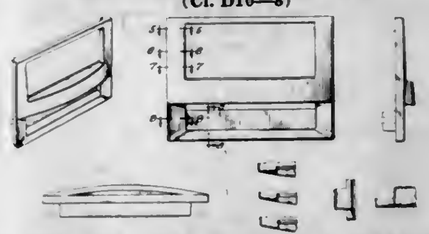
The ornamental design for a lace or similar article, substantially as shown and described.

169,537
LACE
Herbert Farnsworth, Norwalk, Conn.
Application November 18, 1952, Serial No. 22,364
Term of patent 3½ years
(Cl. D47—6)



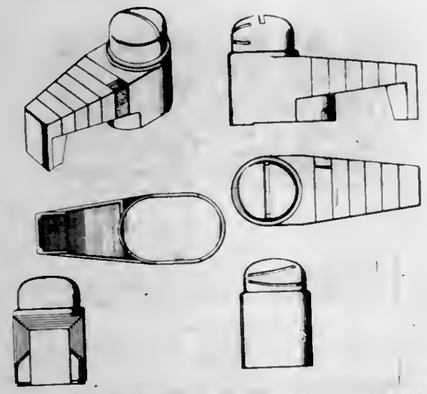
The ornamental design for a lace, substantially as shown and described.

169,538
DRAWER PULL HANDLE
John E. Fellowes, Wheaton, Ill., assignor to Bankers Box Company, Chicago, Ill., a corporation of Illinois
Application February 27, 1953, Serial No. 23,825
Term of patent 14 years
(Cl. D10—8)



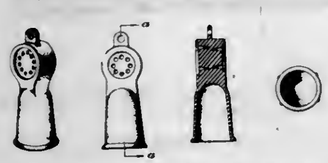
The ornamental design for a drawer-pull handle, substantially as shown and described.

169,539
KNIFE AND SCISSORS SHARPENER
Arthur J. Folli, Chicago, Ill., assignor to Burgess Vibrocrafters, Inc., Lake Zurich, Ill., a corporation of Delaware
Application February 11, 1953, Serial No. 23,559
Term of patent 14 years
(Cl. D37—1)



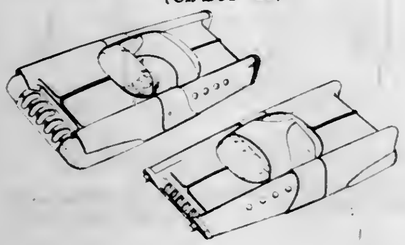
The ornamental design for a knife and scissors sharpener, as shown.

169,540
COMBINED VACUUM TUBE EXTRACTOR AND TERMINAL PIN STRAIGHTENER
Leslie Arthur Fountain and Douglas Phillips, Enfield, England, assignors to Belling and Lee Limited, Enfield, England, a British company
Application September 28, 1951, Serial No. 16,779
In Great Britain March 30, 1951
Term of patent 14 years
(Cl. D26—1)

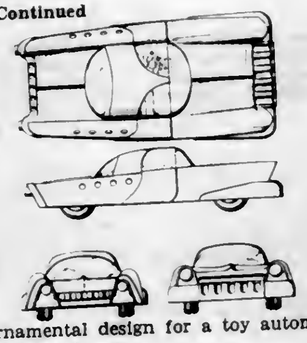


The ornamental design for a combined vacuum tube extractor and terminal pin straightener, as shown.

169,541
TOY AUTOMOBILE
Elliot Handler, Los Angeles, Calif.
Application November 28, 1952, Serial No. 22,483
Term of patent 14 years
(Cl. D34—15)

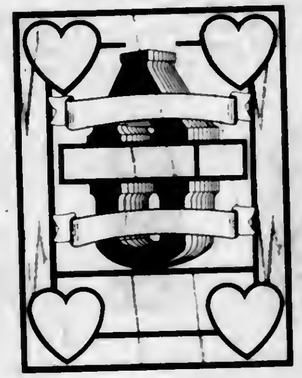


169,541—Continued



The ornamental design for a toy automobile, substantially as shown .

169,542
SEAL
Paul F. W. Henning, Chicago, Ill.
Application November 30, 1951, Serial No. 17,576
Term of patent 3½ years
(Cl. D1—8)



The ornamental design for a seal, as shown and described.

169,543
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,501
Term of patent 7 years
(Cl. D45—9)



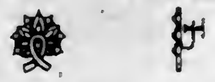
The ornamental design for an earring or the like, substantially as shown.

169,544
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,502
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,545
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,503
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,546
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,504
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,547
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,505
Term of patent 7 years
(Cl. D45—9)



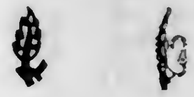
The ornamental design for an earring or the like, substantially as shown.

169,548
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,507
Term of patent 7 years
(Cl. D45—9)



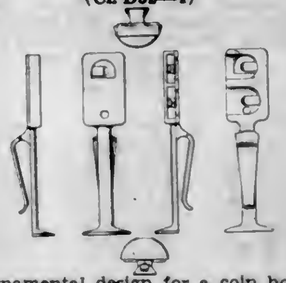
The ornamental design for an earring or the like, substantially as shown.

169,549
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,509
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,550
COIN HOLDER ATTACHMENT FOR AUTOMOBILE VISORS OR THE LIKE
Bernard Katz, Chicago, Ill., assignor to World Wide Plastics Corporation, Chicago, Ill., a corporation of Illinois
Application November 4, 1952, Serial No. 22,119
Term of patent 7 years
(Cl. D52—4)



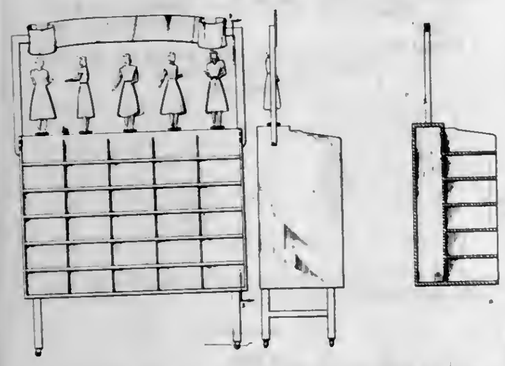
The ornamental design for a coin holder attachment for automobile visors or the like, substantially as shown.

169,551
DOORKNOB
Marron Kendrick, Atherton, Calif., assignor to Schlage Lock Company, a corporation
Application June 7, 1952, Serial No. 20,073
Term of patent 14 years
(Cl. D50—3)



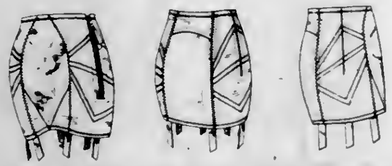
The ornamental design for a doorknob, as shown.

169,552
DISPLAY BIN
Leroy Keyserling, New York, N. Y., assignor to Jos. S. Cohen & Sons Co., Inc., New York, N. Y., a corporation of New York
Application November 28, 1952, Serial No. 22,479
Term of patent 14 years
(Cl. D80—9)



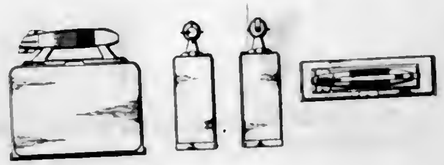
The ornamental design for a display bin, substantially as shown.

169,553
GIRDLE
Mario Laguzzi, New York, N. Y., assignor to Poirette Corsets, Inc., New York, N. Y.
Application January 23, 1953, Serial No. 23,275
Term of patent 14 years
(Cl. D20—2)



The ornamental design for a girdle, as shown and described.

169,554
FIRST-AID KIT OR SIMILAR ARTICLE
William C. Littlejohn, Los Angeles, Calif., assignor to Regis Plastics Corporation, Beverly Hills, Calif., a corporation of California
Application February 9, 1953, Serial No. 23,482
Term of patent 3½ years
(Cl. D58—2)



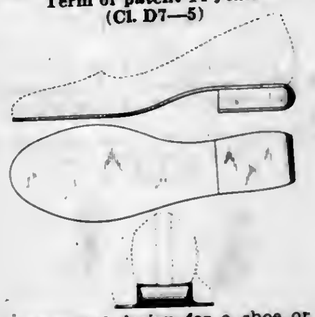
The ornamental design for a first aid kit or similar article, substantially as shown.

169,555
WHEEL COVER MEMBER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application May 6, 1952, Serial No. 19,609
Term of patent 14 years
(Cl. D14—30)



The ornamental design for a wheel cover member or similar article, substantially as shown and described.

169,556
SHOE OR SIMILAR ARTICLE
Roy Maling, Chestnut Hill, Mass.
Application March 29, 1952, Serial No. 19,114
Term of patent 14 years
(Cl. D7—5)



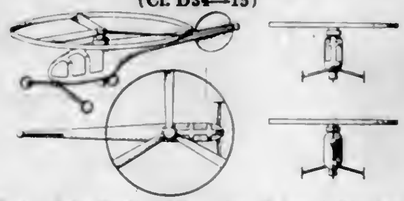
The ornamental design for a shoe or similar article, substantially as shown and described.

169,557
SET OF PLAYING CARDS
Yvonne Matthews, New York, N. Y.
Application June 7, 1952, Serial No. 20,071
Term of patent 14 years
(Cl. D34—13)



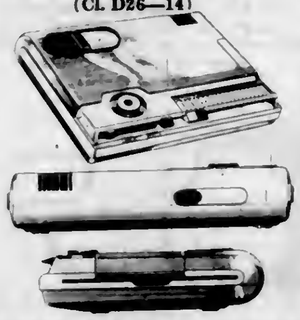
The ornamental design for a set of playing cards, as shown and described.

169,558
TOY HELICOPTER
Bruno Nagler, New York, N. Y.
Application October 1, 1951, Serial No. 16,805
Term of patent 14 years
(Cl. D34—15)



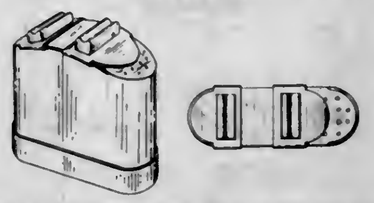
The ornamental design for a toy helicopter, as shown and described.

169,559
SOUND TRANSLATING MACHINE
Carl L. Otto, New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application December 10, 1952, Serial No. 22,619
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a sound translating machine, substantially as shown.

169,560
COMBINED PEPPER-AND-SALT SHAKER
Thomas A. Prus, Strathclair, Manitoba, Canada
Application September 2, 1952, Serial No. 21,278
Term of patent 7 years
(Cl. D44—22)



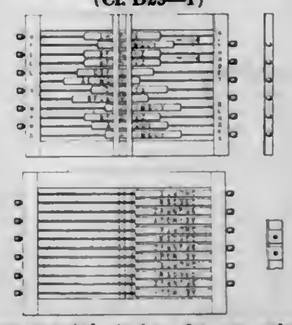
The ornamental design for a combined pepper-and-salt shaker substantially as shown and described.

169,561
TAMPER FOR CHOPPING MACHINES
Horace J. Raymond, deceased, late of Concord, Calif., by Gladys V. Raymond, assignee, Concord, Calif.
Application December 29, 1951, Serial No. 17,854
Term of patent 14 years
(Cl. D44—29)



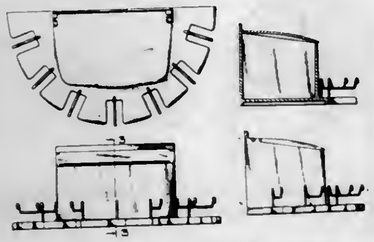
The ornamental design for a tamper for chopping machines, substantially as shown.

169,562
EDUCATIONAL SPELLING APPLIANCE OR SIMILAR ARTICLE
Waldemar C. Rieck, Douglaston, N. Y.
Application August 23, 1951, Serial No. 16,413
Term of patent 14 years
(Cl. D25—1)



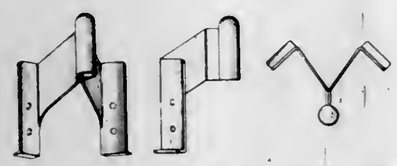
The ornamental design for an educational spelling appliance or similar article, as shown and described.

169,563
COMBINED HANDKERCHIEF BOX AND TIE RACK
Percy W. Robinson, Toledo, Ohio
Application November 29, 1952, Serial No. 22,495
Term of patent 14 years
(Cl. D33—8)



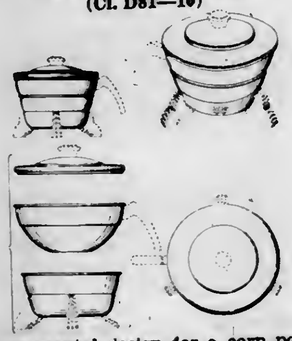
The ornamental design for a combined handkerchief box and tie rack, as shown.

169,564
CASTER BRACKET
Edward H. Schultz, Jr., Chicago, Ill., assignor to The Nagel-Chase Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 24, 1952, Serial No. 19,868
Term of patent 14 years
(Cl. D10—9)



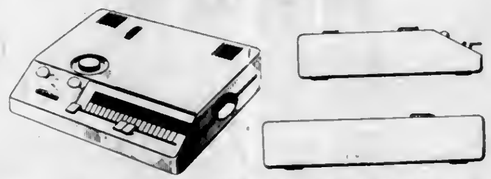
The ornamental design for a caster bracket, substantially as shown.

169,565
CORN POPPER
Emil E. Sivacek, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application June 11, 1951, Serial No. 15,492
Term of patent 14 years
(Cl. D61—10)



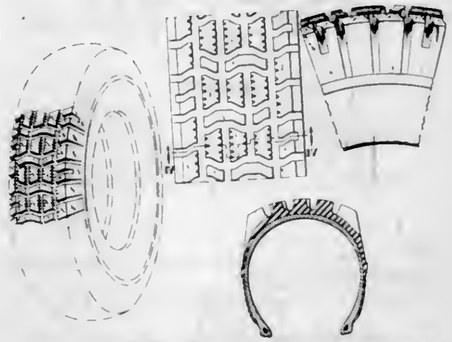
The ornamental design for a corn popper, as shown and described.

169,566
SOUND TRANSLATING MACHINE
Richard M. Somers, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application December 8, 1952, Serial No. 22,603
Term of patent 14 years
(Cl. D26—14)



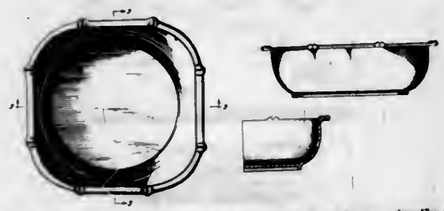
The ornamental design for a sound translating machine, substantially as shown.

169,567
PNEUMATIC TIRE
Andrey H. Steadman, Anniston, Ala., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 2, 1952, Serial No. 22,515
Term of patent 14 years
(Cl. D90—20)



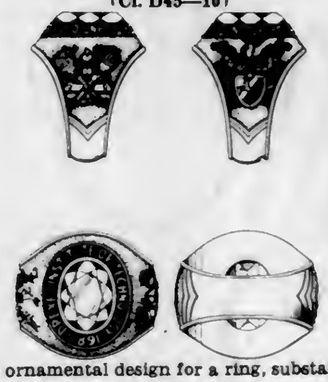
The ornamental design for a pneumatic tire, substantially as shown and described.

169,568
BOWL OR SIMILAR ARTICLE
Joseph B. Stier, New York, N. Y.
Application November 1, 1952, Serial No. 22,092
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a bowl or similar article, substantially as shown and described.

169,569
RING
Richard D. Strathmeyer, Springfield, Pa.
Application December 11, 1952, Serial No. 22,621
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a ring, substantially as shown.

169,570
PAIR OF SUNGLASSES
Egon F. Von Seekamm, New York, N. Y., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application August 6, 1952, Serial No. 20,915
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a pair of sunglasses, substantially as shown.

May 19, 1953 Volume 670 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business May 1, 1953

Total number of patent applications awaiting action, 98,906. Date of oldest new application, July 25, 1952; date of oldest amended application, July 25, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.		3-11-53	4
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	8-6-52	8-5-52	1506
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	8-26-52	8-6-52	1166
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-10-52	9-11-52	1908
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	8-12-52	8-13-52	1446
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-15-52	8-16-52	1040
6. SURLE, H., Carbon Chemistry (part)	8-6-52	8-1-52	2547
7. GONSALVES, J. E., Optics; Photography (part)	8-5-52	8-11-52	1530
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	9-15-52	9-15-52	1100
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	8-18-52	8-19-52	1271
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	8-25-52	9-2-52	1286
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	8-14-52	8-5-52	1162
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	8-6-52	8-5-52	1295
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	8-2-52	8-2-52	1312
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	8-19-52	8-20-52	1479
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-1-52	8-1-52	1744
16. LOVEWELL, N. N., Television, Telephony	8-19-52	8-19-52	1531
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	8-9-52	8-12-52	1627
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-20-52	9-2-52	683
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	7-25-52	7-25-52	1165
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	8-19-52	8-19-52	1297
21. MADER, R. C., Textiles	8-11-52	8-14-52	1256
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	8-21-52	8-29-52	942
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	8-11-52	8-15-52	853
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	9-23-52	9-23-52	1060
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	8-1-52	8-1-52	1262
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	9-3-52	9-2-52	1799
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	8-15-52	8-14-52	1273
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	8-16-52	8-22-52	1110
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	8-14-52	8-5-52	1161
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	9-23-52	9-20-52	1344
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	8-1-52	8-1-52	2467
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-6-52	9-12-52	1291
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	8-1-52	8-18-52	1826
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	8-8-52	8-8-52	1230
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles	9-26-52	9-15-52	1193
36. McFADYEN, A. D., Measuring and Testing	8-23-52	8-25-52	1085
37. LEVY, M. L., Electricity-Switches, Welding, Heating; Recorders	8-22-52	9-5-52	1961
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	8-25-52	8-15-52	1545
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	10-22-52	10-20-52	1753
40. DRUMMOND, E. J., Receptacles (part); Packages	11-4-52	11-4-52	1057
41. GURLEY, R. B., Check Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-15-52	9-12-52	837

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection Signals; Telegraph (part); Signals and Indicators.	8-26-52	8-26-52	1049
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	8-26-52	8-27-52	1709
44. COBLE, A. S. (Acting), Beds; Chairs; Seats	8-27-52	8-27-52	1194
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides: Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	9-9-52	9-11-52	1330
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers: Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	8-8-52	8-4-52	1062
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	8-8-52	8-7-52	1663
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	8-14-52	8-12-52	1691
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells: Earth Boring	9-2-52	8-22-52	1293
50. BENGEL, W. G., Synthetic Resins; Rubber	10-10-52	10-9-52	1601
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Signaling); Radiant Energy Communications (part, e. g., Duplex, Multiplex, Device Control); Modulators: Music: Piezoelectric Crystals.	8-8-52	8-8-52	1501
52. WHITNEY, F. L., Supports; Joint Packing: Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	9-23-52	9-17-52	1869
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable: Harness; Package and Article Carriers; Whip Apparatus.	9-4-52	9-3-52	994
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	8-19-52	8-14-52	1823
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery: Toilet	8-22-52	8-5-52	990
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	9-17-52	9-11-52	1269
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-2-52	10-2-52	1652
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements: Stone Working: Abrading Processes and Apparatus: Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	8-8-52	8-1-52	1382
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	9-3-52	9-2-52	1375
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994)			
61. STRIZAK, J. P. (Acting), Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	8-25-52	8-19 52	1052
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	9-13-52	9-9-52	1169
63. WINKELSTEIN, A. B., Fermentation, Foods and Beverages, Carbon Chemistry (part)	8-11-52	8-9-52	1852
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	8-4-52	8-5-52	1833
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	9-11-52	9-10-52	1334
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	8-22-52	8-22-52	826
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making	8-30-52	8-26-52	1740
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	10-9-52	10-2-52	1350
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	9-3-52	9-2-52	1118
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	7-30-52	7-29-52	3290
DESIGNS: A—BREHM, G. L., Industrial Arts	1-2-53	1-2-53	821
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	1-2-53	1-14-53	648

Number of new applications received week ending April 17, 1953

PATENTS 1,431 DESIGNS 113 REISSUES 3 TOTAL 1,547

Total number of trade-mark applications awaiting action (including renewals and republications), 11,491. Date of oldest new application, Nov. 25, 1952; date of oldest amended application, Nov. 25, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	11-25-52	11-25-52	2967
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	12-17-52	12-12-52	2544
Renewals (All Classes)	3-4-53	4-13-53	556
Republications (All Classes)	3-4-53	3-4-53	350
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	12-16-52	12-1-52	2571
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	12-8-52	12-11-52	2503

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Ace Drill Corporation, Adrian, Mich. Drills, drill blanks, router bits, etc. Serial No. 589,545, May 19. Class 23.

Adam Hat Stores, Inc., New York, N. Y. Men's and boys' hats and caps, dress shirts, outer and under shirts, etc. Serial No. 629,758, May 19. Class 39.

Adam Hat Stores, Inc., New York, N. Y. Men's and boys' hats and caps, dress shirts, outer and under shirts, etc. Serial No. 636,505, May 19. Class 39.

Adams, Ruth, Minneapolis, Minn. Skin cream cleanser. Serial No. 633,905, May 19. Class 51.

Air Carrier Engine Service, Inc., Miami, Fla. Repairing, servicing, and maintaining aircraft engines and component parts of aircraft and aircraft engines. Serial No. 633,027, May 19. Class 103.

Aktiebolaget Bofors, Bofors, Sweden. Chemical preparations for treatment of fresh and preserved foodstuffs. Serial No. 600,938, May 19. Class 46.

Allen Industries, Incorporated, Detroit, Mich. Rubber reinforced fibers. Serial No. 606,741, May 19. Class 1.

Allen, Robert, Company, Minneapolis, Minn. Ladies' costume jewelry. Serial No. 627,239, May 19. Class 28.

Allied Home Products Corporation, Beloit, Wis. Liquid cleansing composition. Serial No. 636,958, May 19. Class 52.

Allis, Louis, Company, The, Milwaukee, Wis. Promotional periodical. Serial No. 637,230, May 19. Class 38.

American Blouse Co. Inc., New York, N. Y. Girls' blouses, combinations of blouses and slips, skirts, etc. Serial No. 608,526, May 19. Class 39.

American Cancer Society, Inc., New York, N. Y. Providing and distributing funds as grants to institutions and to individuals as fellowships. Serial No. 637,856, May 19. Class 102.

American Cyanamid Company, New York, N. Y. Sedative. Serial No. 620,834, May 19. Class 18.

American Cystoscope Makers, Inc., New York, N. Y. Ophthalmoscopes and components thereof. Serial No. 638,465, May 19. Class 26.

American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets for dispensing paper towels. Serial No. 580,871, May 19. Class 2.

American Locomotive Company, New York and Schenectady, N. Y. Diesel-electric locomotives. Serial No. 623,578, May 19. Class 21.

American Locomotive Company, New York and Schenectady, N. Y. Turbine superchargers. Serial No. 631,914, May 19. Class 23.

American Machine and Foundry Company, New York, N. Y. Electrically operated foul detecting and indicating apparatus. Serial No. 579,160, May 19. Class 21.

American Mineral Spirits Company, Chicago, Ill. Solvent naphtha for dry cleaning, paint solvent, and metal cleaning. Serial No. 620,485, May 19. Class 52.

American Mineral Spirits Company, Chicago, Ill. Solvent naphtha for dry cleaning purposes. Serial No. 639,730, May 19. Class 52.

American Model Toys, Inc., Auburn, Ind. Toy model coupling devices. Serial No. 636,674, May 19. Class 22.

Anderson-Nichols & Company, Boston, Mass. Consulting engineering and architectural services. Serial No. 610,665, May 19. Class 100.

Andrew Corporation, Chicago, Ill. Electrical equipment and tower lighting equipment. Serial No. 567,482, May 19. Class 21.

Antell, Carol, Inc., New York, N. Y. Costume jewelry and ornaments. Serial No. 627,032, May 19. Class 28.

Anvil Brand, Incorporated, High Point, N. C. Men's and boys' sportswear. Serial No. 625,326, May 19. Class 39.

Arlite Industries, Inc., Newark, N. J. Storm windows and storm window frames. Serial No. 621,651, May 19. Class 12.

Bacharach Industrial Instrument Company, Pittsburgh, Pa. Control instruments employed to regulate heat output of combustion heating facilities. Serial No. 592,066, May 19. Class 26.

Bachman, Carl O., Watertown, N. Y. Printing press. Serial No. 632,411, May 19. Class 23.

Barber-Colman Company, Rockford, Ill. Metal cutting tools. Serial No. 628,608, May 19. Class 23.

Barclay, Jas., & Co. Limited, Detroit, Mich., and Peoria, Ill. Whiskey. Serial No. 626,297, May 19. Class 49.

Bauer, Eddie, Seattle, Wash. Sportswear, aviation clothing. Serial No. 635,809, May 19. Class 39.

Beck, A. S., Shoe Corporation, New York, N. Y. Men's and women's shoes and slippers. Serial No. 635,457, May 19. Class 39.

Behr-Manning Corporation, Troy, N. Y. Coated abrasive grinding and polishing machinery accessories. Serial No. 620,488, May 19. Class 23.

Belk's Buying Service, Inc., Charlotte, N. C. Ladies' shoes. Serial No. 629,716, May 19. Class 39.

Bellsey, Dave, Co, Inc., New York, N. Y. Ladies', misses' coats. Serial No. 624,073, May 19. Class 39.

Bernfeld, Jules E., trading as Jules, Alexandria and Arlington, Va. Permanent wave solution. Serial No. 625,092, May 19. Class 51.

Berryworth Chemical Company, Framingham, Mass. Sodium salt of a synthetic amino acid. Serial No. 640,490, May 19. Class 6.

Best & Co. Inc., New York, N. Y. Clothing. Serial No. 583,319, May 19. Class 39.

Big Apple Super Markets, Inc., Atlanta, Ga. Fresh eggs and coffee. Serial No. 611,997, May 19. Class 46.

Big Jack Manufacturing Company, Inc., Bristol, Va. Men's and boys', ladies' and children's dungarees, pants, blue jeans, etc. Serial No. 622,293, May 19. Class 39.

Bigelow-Liptak Corporation, Detroit, Mich. Engineering services. Serial No. 618,107, May 19. Class 100.

Bishop, Howard B., doing business under the name Humanic Brands, Summit, N. J. High protein food supplement. Serial No. 633,967, May 19. Class 18.

Boegli, Elmer E., Charleston, S. C. Column appearing in a periodical or trade magazine. Serial No. 586,787, May 19. Class 38.

Borden Company, The, New York, N. Y. Evaporated milk. Serial No. 567,067, May 19. Class 46.

Brand & Oppenheimer Incorporated, New York, N. Y. Textile fabrics. Serial No. 630,985, May 19. Class 42.

Bretter, Harry R., Inc., New York, N. Y. Women's and misses' woolen, cotton, and rayon suits. Serial No. 627,870, May 19. Class 39.

Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. Serial No. 619,491, May 19. Class 39.

Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. Serial No. 619,799, May 19. Class 39.

Brevitt Shoes Limited, Leicester, England. Boots, bootees, shoes, etc. Serial No. 626,365, May 19. Class 39.

Broadcasting Publications, Inc., Washington, D. C. Periodicals. Serial No. 635,170, May 19. Class 38.

Broitman-Gaffin Shoes, Inc., New York, N. Y. Women's and children's shoes. Serial No. 637,236, May 19. Class 39.

Brown Shoe Company, Inc., St. Louis, Mo. Women's shoes. Serial No. 637,859, May 19. Class 39.

Brütsch & Co., Zurich, Switzerland. Sewing and darning machines and parts thereof. Serial No. 627,622, May 19. Class 23.

Carlo Erba Società per Azioni, Milan, Italy. Pharmaceutical products. Serial No. 626,605, May 19. Class 18.

Centlivre Brewing Corporation, Fort Wayne, Ind. Beer. Serial No. 635,585, May 19. Class 48.

Centlivre Brewing Corporation, Fort Wayne, Ind. Ale. Serial No. 635,586, May 19. Class 48.

Central Mutual Insurance Company, Van Wert, Ohio. Underwriting of fire and other kinds of property insurance. Serial No. 629,650, May 19. Class 102.

Central Soya Company, Inc., Fort Wayne, Ind. Nutritious ration feed. Serial No. 624,263, May 19. Class 46.

Chapman, Elwood, Ontario, Calif. Educational service. Serial No. 628,394, May 19. Class 107.

Chapman Valve Manufacturing Company, The, Springfield, Mass. Surface hardening steel production parts of others. Serial No. 613,902, May 19. Class 106.

Chartometer Company, Inc., Valley Stream, N. Y. Routegraph instruments. Serial No. 624,467, May 19. Class 26.

Chartreuse Corporation, New York, N. Y. Liqueur. Serial No. 630,757, May 19. Class 49.

Chemische Werke Albert, Wiesbaden-Kastel, Amoneburg, Germany. Conditioning agent for enhancing the binding or emulsifying quality of meat, etc. Serial No. 622,052, May 19. Class 46.

Chemtox Company, Ltd., Honolulu, Hawaii. Chemical extermination and eradication of termites. Serial No. 631,268, May 19. Class 103.

Chernoy, Eugene, Ocean Park, Calif. Electrical lamps, lamp shades, and lighting fixtures. Serial No. 624,526, May 19. Class 21.

Chi Phi Fraternity, The, Atlanta, Ga. Recruiting and pledging prospective members of the chapters of a National collegiate fraternity. Serial No. 596,834, May 19. Class 100.

Chicago Show Printing Co., doing business as Mystik Adhesive Products, Chicago, Ill. Pressure sensitive paper tape. Serial No. 640,035, May 19. Class 5.

China Doll Company: *See*—
Hutchings, Norman W., Sr., and Norman W. Hutchings, Jr.

Clement & Ball Shoe Mfg. Co., Inc., of Baltimore, City, Baltimore, Md. Leather shoes. Serial No. 621,753, May 19. Class 39.

Cline, W. M., Company, Chattanooga, Tenn. Lamp shades. Serial No. 633,350, May 19. Class 21.

Clinical Laboratories, Inc., The, Phoenix, Ariz. Laboratory and X-ray supplies. Serial No. 601,492, May 19. Class 26.

Clothier, C. F., & Co.: *See*—
Clothier, Conrad F.

Clothier, Conrad F., doing business under the trade name and style of C. F. Clothier & Co., Philadelphia, Pa. Preparation for cleaning combs, hair brushes and jewelry. Serial No. 638,570, May 19. Class 52.

Colorado Fuel and Iron Corporation, The, Denver, Colo. Poultry netting, wire fabric, and wire fence. Serial No. 638,290, May 19. Class 13.

Commercial Visible Systems: *See*—
Daniel, Robert S.

Condles, Mrs., Salad Company, Salt Lake City, Utah. Washed and prepared raw vegetables. Serial No. 602,372, May 19. Class 46.

Copco Steel & Engineering Company, Detroit, Mich. Corrosion-resistance coated metal building and construction materials. Serial No. 620,198, May 19. Class 12.

Cop-Sil-Loy, Inc., Beverly Hills, Calif. Dry coatings for braking, clutching and like surfaces. Serial No. 619,500, May 19. Class 6.

Corhart Refractories Company, Louisville, Ky. Crushed refractory grains; mortars; and cements. Serial No. 624,470, May 19. Class 12.

Crown Zellerbach Corporation, San Francisco, Calif. Solids of waste sulfite liquor, for use as an adhesive and adhesive extender. Serial No. 639,810, May 19. Class 5.

Crystal Tube Corporation, Chicago, Ill. Wrapping and packaging materials. Serial No. 575,124, May 19. Class 37.

Daniel, Robert S., trading as Commercial Visible Systems, Washington, D. C. Metal guides for filing cabinets and filing drawers. Serial No. 613,214, May 19. Class 32.

Davidson, Glenn, Aurora, Ill. More or less purified protein from leguminous seeds for use as an ingredient in the manufacture of adhesives. Serial No. 579,863, May 19. Class 5.

Dayton Bait Company, Dayton, Ohio. Floats used in fishing. Serial No. 640,036, May 19. Class 22.

Deep Rock Refining Co.: *See*—
Yacenda, Thomas J.

Des Noyers, Eugene, Branch Village, R. I. Ointment. Serial No. 638,949, May 19. Class 18.

Dille & McGuire Mfg. Co., Richmond, Ind. Lawn mowers. Serial No. 622,486, May 19. Class 23.

Dixie Paint and Varnish Company, Inc., Brunswick, Ga. Ready mixed oil paints. Serial No. 521,440, May 19. Class 16.

Dollar, Robert Co., The, San Francisco, Calif. Radio tubes, radio transmitters and receivers and parts therefor. Serial Nos. 638,526–7, May 19. Class 21.

Dorian Handbags, New York, N. Y. Handbags. Serial No. 630,833, May 19. Class 3.

Dougherty's, J. A., Sons, Inc. Distillers, also known as Dougherty's, J. A., Sons, Incorporated, Philadelphia, Pa. J. A. Dougherty's Sons, Incorporated. Philadelphia, Pa. Whiskey. Serial No. 638,405, May 19. Class 49.

Dougherty's, J. A., Sons, Incorporated: *See*—
Dougherty's, J. A., Sons, Inc. Distillers.

Dow Corning Corporation, Midland, Mich. Unvulcanized organopolysiloxane elastomers. Serial Nos. 640,552–3, May 19. Class 6.

Drury, Cooper C., Dallas, Tex. Ceiling constructions. Serial Nos. 616,904–5, May 19. Class 12.

Eagle Pencil Company, New York, N. Y. Wood encased pencils. Serial No. 636,218, May 19. Class 37.

Easterling China Company, Chicago, Ill. China tableware. Serial No. 618,206, May 19. Class 30.

Edgar, G. H., Pittsburgh, Pa. Cheese coated potato chips. Serial No. 622,885, May 19. Class 46.

Edgcomb Steel Company, Philadelphia, Pa. Aluminum, brass, and steel wire, metal tubing stock, rods, etc. Serial Nos. 638,702–3, May 19. Class 14.

El Chico Cafe, Dallas, Tex. Restaurant services. Serial No. 637,100, May 19. Class 100.

Emjay Maintenance Corporation, Rutherford, N. J. Protective coating composition. Serial No. 625,469, May 19. Class 16.

Epstein Garment Co., Inc., New York, N. Y. Ladies' dresses. Serial No. 633,303, May 19. Class 39.

Eureka Williams Corporation, Bloomington, Ill. Compartmented fabric cases. Serial No. 529,617, May 19. Class 2.

Exquisite Gem Company, Chicago, Ill. Synthetic diamonds. Serial No. 631,279, May 19. Class 28.

Fiat Società per Azioni, Turin, Italy. Planing machines, slotting machines, boring machines, etc. Serial No. 633,048, May 19. Class 23.

Fil-O-Matic Corporation, Chicago, Ill. Spout and valve assembly. Serial No. 600,127, May 19. Class 13.

Food Machinery & Chemical Corporation, San Jose, Calif. Leasing machines and equipment. Serial No. 588,570, May 19. Class 100.

Ford Motor Company Limited, London, England. Passenger automobiles and structural parts thereof. Serial No. 635,638, May 19. Class 19.

Fratelli Borletti Società per Azioni, Milan, Italy. Watches, clocks, and watches of any kind. Serial No. 621,624, May 19. Class 27.

Friedman-Marks Clothing Co. Inc., Richmond, Va. Men's suits and coats. Serial No. 635,914, May 19. Class 39.

Fury Manufacturing Company, Brighton, Mich. Artificial fish lures. Serial No. 636,073, May 19. Class 22.

General Dyestuff Corporation, New York, N. Y. Chemical compounds and compositions. Serial No. 640,396, May 19. Class 6.

Gernsback Publications, Inc., New York, N. Y. Monthly fiction magazine. Serial No. 636,230, May 19. Class 38.

Geroux, Harvey, doing business under the fictitious name and style of Harvey's Products, Los Angeles, Calif. Smoke flavored seasoning for meats. Serial No. 624,944, May 19. Class 46.

Gibson, G. M., Corporation, Bellevue, Iowa. Clothes washing machines, clothes ironers, and mechanical clothes driers. Serial No. 600,772, May 19. Class 24.

Glo-Lure, Inc., Medford, Wis. Artificial fish baits. Serial No. 636,012, May 19. Class 22.

Goodall Rubber Company, Trenton, N. J. Air hose. Serial No. 642,466, May 19. Class 35.

Gordon Sales, Inc., Detroit, Mich. Spring pads or supports. Serial No. 627,126, May 19. Class 32.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Pennants, banners and prize ribbons; etc. Serial No. 607,992, May 19. Class 50.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Pennants, banners and prize ribbons; etc. Serial No. 607,995, May 19. Class 50.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Pennants, banners and prize ribbons; etc. Serial No. 607,999, May 19. Class 50.

Green Life Products Company, Kansas City, Mo. Organically grown natural food. Serial No. 638,301, May 19. Class 46.

H & H Sales & Mfg. Company, Pittsburgh, Pa. Casings for flash lights. Serial No. 637,922, May 19. Class 21.

H. Maihak Aktiengesellschaft, Hamburg, Germany. Apparatus for analyzing gases and repair parts therefor. Serial No. 638,204, May 19. Class 26.

Hainke, Paul, Mfg. Co., Hutchinson, Kans. Power driven lawn mowers and parts thereof. Serial No. 640,028, May 19. Class 23.

Hammond Laboratory: *See*—
Hammond Research Corporation.

Hammond Research Corporation, doing business as Hammond Laboratory, Gloucester, Mass. Shaving cream. Serial No. 598,792, May 19. Class 51.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Apparatus for electroplating, anodically treating, electrocleaning, etc. Serial No. 617,495, May 19. Class 21.

Hart & Harrington, Inc., Chicago, Ill. Foaming oil shampoo. Serial Nos. 636,706–7, May 19. Class 52.

Hart & Harrington, Inc., Chicago, Ill. Creme shoe dressing. Serial Nos. 638,536–7, May 19. Class 6.

Harvey's Products: *See*—
Geroux, Harvey.

Hassler, Kenneth, New York, N. Y. Caps. Serial No. 627,308, May 19. Class 39.

Hat Corporation of America, Norwalk, Conn. Hats. Serial No. 624,409, May 19. Class 39.

Hazzard, R. P., Co., Augusta, Maine, and Boston, Mass. Men's and boys' shoes. Serial No. 627,815, May 19. Class 39.

Hebb Leather Co. Inc., Boston, Mass. Leather. Serial No. 636,567, May 19. Class 1.

Hellegers, Russell, Paterson, N. J. Narrowbeam spotlights, high intensity flood-lighting, display lighting. Serial No. 624,829, May 19. Class 21.

Helme, George W., Company, New York, N. Y. Snuff. Serial Nos. 562,040–1, May 19. Class 17.

Helme, George W., Company, New York, N. Y. Snuff. Serial No. 562,048, May 19. Class 17.

Helme, George W., Company, New York, N. Y. Snuff. Serial No. 562,054, May 19. Class 17.

Heyer Industries Incorporated, Belleville, N. J. Electrical equipment. Serial No. 633,363, May 19. Class 21.

Hibben Hollweg & Company, Indianapolis, Ind. Piece goods. Serial No. 577,887, May 19. Class 42.

Hibben Hollweg & Company, Indianapolis, Ind. Piece goods. Serial No. 578,064, May 19. Class 42.

Hibben Hollweg & Company, Indianapolis, Ind. Piece goods. Serial Nos. 593,350–1, May 19. Class 42.

Himmelstein, Irvan, New York, N. Y. Women's, juniors', and misses' suits and coats. Serial No. 628,273, May 19. Class 39.

Hiss, John M., Los Angeles, Calif. Women's shoes. Serial No. 613,071, May 19. Class 39.

Holiday Frosted Food Co., assignor to R. S. Wolf, doing business as Holiday Frosted Food Co., Philadelphia, Pa. Frozen meats. Serial No. 629,945, May 19. Class 46.

Hollywood Doll Manufacturing Co.: *See*—
Ippolito, Domenick.

Holt, Allen M., III, doing business as Holt Mfg. Co., Birmingham, Ala. Paste. Serial No. 621,315, May 19. Class 5.

Holt Mfg. Co.: *See*—
Holt, Allen M., III.

Hoyt and Worthen Tanning Corporation, Haverhill, Mass. Thin leathers. Serial No. 594,462, May 19. Class 1.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Sprayers of insecticides and other purposes, and sprayer parts. Serial No. 579,374, May 19. Class 23.

Humanic Brands: *See*—
Bishop, Howard B.

Hutchings Brokerage Company: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.

Hutchings, Norman W., Jr.: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.

Hutchings, Norman W., Sr., and N. W. Hutchings, Jr., doing business under the names China Doll Company and Hutchings Brokerage Company, Mobile, Ala. Rice. Serial No. 638,288, May 19. Class 46.

Hygiene Research, Inc., New York, N. Y. Protective jel for application and rubbing into the skin. Serial No. 637,923, May 19. Class 51.

Inland Fire Brick Company, The, Cleveland, Ohio. Refractory cement. Serial No. 618,262, May 19. Class 12.

International Minerals & Chemical Corporation, Chicago, Ill. Portion cost calculator. Serial No. 638,302, May 19. Class 26.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Co., Glendale, Calif. Dolls and doll clothes. Serial No. 627,339, May 19. Class 22.

Iselin-Jefferson Company, Inc., New York, N. Y. Clothing. Serial No. 635,310, May 19. Class 39.

Jordeau, Jean, Inc., South Orange, N. J. Superfluous hair remover. Serial No. 574,147, May 19. Class 51.

Judy Company, The, Minneapolis, Minn. Puzzles. Serial No. 636,021, May 19. Class 22.

Jules: *See*—
Bernfeld, Jules E.

K. L. M. Royal Dutch Airlines: *See*—
Koninklijke Luchtvaart Maatschappij N. V.

Kaynee Company, The, Cleveland, Ohio. Boys' outer T-shirts, dress shirts, sport shirts, etc. Serial No. 626,797, May 19. Class 39.

Kershaw Manufacturing Company, Inc., Montgomery, Ala. Monthly periodical. Serial No. 636,568, May 19. Class 38.

Keyamin, Inc., Long Beach, Calif. Food supplement. Serial No. 634,088, May 19. Class 18.

Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Coloring material for inter-mixing, blending, and tinting water paints, etc. Serial No. 637,598, May 19. Class 16.

Kid-O-Roy Togs, Brooklyn, N. Y. Infants' and children's creepers, overalls, slacks, etc. Serial No. 633,368, May 19. Class 39.

Kiekhaefer Corporation, Cedarburg, Wis. Outboard motors and parts thereof. Serial Nos. 563,258–9, May 19. Class 23.

Knapp-Monarch Company, St. Louis, Mo. Containers filled with deodorant and gas. Serial No. 591,241, May 19. Class 6.

Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. Serial No. 611,432, May 19. Class 46.

Koninklijke Luchtvaart Maatschappij N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y. Air transport service. Serial No. 619,628, May 19. Class 105.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Watch bands. Serial No. 640,638, May 19. Class 28.

Kuppenheimer, B., and Co. Inc., Chicago, Ill. Swatches of woolen textile fabrics. Serial No. 615,230, May 19. Class 42.

Lake Chemical Co., Chicago, Ill. Pipe caulking compound. Serial No. 560,276, May 19. Class 12.

Lake Shore Engineering Company, Iron Mountain, Mich. Mine skips. Serial No. 608,420, May 19. Class 23.

Lamont, Corliss & Company, New York, N. Y., now by change of name and merger The Nestlé Company, Inc. Powdered cocoa-sugar mixture. Serial No. 605,661, May 19. Class 46.

Landers Corporation, The, Toledo, Ohio. Flexible plastic sheeting or film. Serial No. 626,389, May 19. Class 50.

Lan-Elec Limited, Slough, England. Hand-operated machines. Serial No. 624,838, May 19. Class 23.

Le Blanc Brothers, Lafayette, La. Chemical composition for washing and strengthening nylon. Serial No. 639,941, May 19. Class 52.

Le Fever, Richard H., Chester, Pa. Sewing machines. Serial No. 636,933, May 19. Class 23.

Leonard Spark Plug Co. Inc., Newark, N. J. Spark plugs. Serial No. 593,421, May 19. Class 21.

Lewis-Shepard Products, Inc., Watertown, Mass. Materials-handling equipment. Serial No. 638,724, May 19. Class 23.

Lewis-Shepard Products, Inc., Watertown, Mass. Materials-handling trucks. Serial No. 638,725, May 19. Class 23.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 637,059, May 19. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 637,061, May 19. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 637,063, May 19. Class 18.

Limpert Bros. Inc., New York, N. Y., and Vineland, N. J. Liquid emulsifier comprising blended glycerol, etc., and other ingredients for use in ice cream. Serial No. 628,948, May 19. Class 46.

Linda Jo Shoe Co., Inc., Dallas, Tex. Women's and children's shoes and moccasins. Serial No. 621,674, May 19. Class 39.

Lone Star Comforters, Inc., Houston, Tex. Bed comforters. Serial No. 639,378, May 19. Class 42.

Lorillard, P., Company, New York, N. Y. Filters used to form a component part of cigarettes. Serial No. 624,092, May 19. Class 8.

Loseff Laboratory: *See*—
Loseff, Samuel S.

Loseff, Samuel S., doing business as Loseff Laboratory, Chicago, Ill. Preparation for the treatment and control of the tobacco habit. Serial No. 623,471, May 19. Class 18.

Lunchomat Corporation of America, Dover, Del., and New York, N. Y. Coin-controlled manually-operated vending machines. Serial No. 634,905, May 19. Class 23.

M & B Dietetic Laboratories, Inc., doing business as Ten-B-Low Company, Columbus, Ohio. Dried and powdered cows' milk cream. Serial No. 624,843, May 19. Class 46.

Macfadden Publications, Inc., New York, N. Y. Monthly magazine. Serial No. 636,485, May 19. Class 38.

MacGregor Sport Products, Inc., Cincinnati, Ohio. Athletic apparel. Serial No. 634,946, May 19. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Men's clothing and furnishings. Serial No. 625,358, May 19. Class 39.

Magnecord, Inc., Chicago, Ill. Magnetic tape sound recorders and parts thereof. Serial No. 632,259, May 19. Class 21.

Manchester Modes, Inc., Manchester, Conn. Women's and men's suits and coats. Serial No. 619,763, May 19. Class 39.

Manfield and Sons, Limited, Northampton, England. Boots and shoes. Serial No. 634,745, May 19. Class 39.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. Serial No. 637,714, May 19. Class 39.

Mann, Bernie: *See*—
Stolzman, Bernard.

Marbelex Products, Inc., New York, N. Y. Glass building materials. Serial No 624,840, May 19. Class 12.

Marbon Corporation, Gary, Ind. Synthetic resinous composition. Serial No. 642,150, May 19. Class 6.

Marglen, Juliette, Inc., Los Angeles, Calif. Preparations for repairing, preserving, and beautifying finger nails and toe nails. Serial No. 632,164, May 19. Class 51.

Marshall and Moore, Inc., Dallas, Tex. Drapery and upholstery fabrics. Serial No. 635,604, May 19. Class 42.

Marx, Louis, & Co. Inc., New York, N. Y. Spring jump toy. Serial No. 641,065, May 19. Class 22.

Master Graphic Service, Inc., New York, N. Y. Prepared advertising. Serial No. 636,370, May 19. Class 38.

Mathews Conveyer Company, Ellwood City, Pa. Fabrication of material handling conveyers and material handling equipment. Serial No. 607,711, May 19. Class 106.

McIntire Corporation, The, Cambridge, Mass. Fire-hose nozzles. Serial No. 628,362, May 19. Class 13.

Meredith Publishing Company, Des Moines, Iowa. Magazine section. Serial No. 633,678, May 19. Class 38.

Merit Clothing Company, Mayfield, Ky. Men's suits. Serial No. 627,692, May 19. Class 39.

Merit Watch Company, Inc., New York, N. Y. Watches and watch parts. Serial No. 609,491, May 19. Class 27.

Michaels & Co. Inc., Brooklyn, N. Y. Textile carpets; textile carpeting; textile rugs, etc. Serial No. 614,004, May 19. Class 42.

Miller and Rhoads, Incorporated, Richmond, Va. Walking canes, parasols, and umbrellas. Serial No. 623,117, May 19. Class 41.

Miller, Sam S., doing business as Ohio First Aid and Pharmacal Company, Cleveland, Ohio. First aid eye safety kits. Serial No. 619,843, May 19. Class 44.

Milwaukee Cheese Co., Milwaukee, Wis. Natural brick cheese, processed cheese, and pickles. Serial No. 627,001, May 19. Class 46.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Magnetic tape for recording sounds, signals, etc. Serial No. 638,206, May 19. Class 21.

Moore & Munger, New York, N. Y. Petroleum wax composition. Serial Nos. 631,214–15, May 19. Class 15.

Moore & Munger, New York, N. Y. Petroleum wax composition. Serial No. 635,190, May 19. Class 15.

Mosel, Charles, Chicago, Ill. Men's apparel; outer shirts, sport shirts, sport coats, etc. Serial No. 632,628, May 19. Class 39.

Mouson, J. G., & Co., Frankfurt am Main, Germany. Lavender water, brilliantine, talcum powder, etc. Serial No. 625,320, May 19. Class 51.

Mystik Adhesive Products: *See*—
Chicago Show Printing Co.

National Bellas Hess, Inc., North Kansas City, Mo. Men's dress, sport, and work shirts, suits, undershirts, etc. Serial No. 629,454, May 19. Class 39.

National Union Radio Corporation, Orange, N. J. Cathode ray tubes. Serial No. 631,802, May 19. Class 21.

Nationwide Leather Products Corp., Los Angeles, Calif. Bottle caps. Serial No. 635,609, May 19. Class 50.

Nestlé Company, Inc., The: *See*—
Lamont, Corliss, & Company.

New York Knitting Mills, Inc., New York, N. Y. Knitwear—namely, ladies' sweaters, skirts, and dresses, etc. Serial No. 627,595, May 19. Class 39.

Norbest Turkey Growers Association, Salt Lake City, Utah. Frozen boned turkey. Serial No. 622,307, May 19. Class 46.

Northome Furniture Industries, Inc., Dubuque, Iowa. Upholstered sofas, davenports, love seats, etc. Serial No. 620,321, May 19. Class 32.

Northwest Chemical Co., Inc., Detroit, Mich. Water wash compound for preventing adhesion of paint to spray booths. Serial No. 622,550, May 19. Class 16.
Nurserytyme Products, Brooklyn, N. Y. Crib mattresses. Serial No. 559,043, May. 19. Class 32.
Ohio First Aid and Pharmacal Company: *See*—
Miller, Sam S.
Ohio Tool & Manufacturing Company, Toledo, Ohio. Threading, drilling, punching, etc.; of steel forgings, castings, die castings, etc. Serial No. 625,021, May 19. Class 106.
Ong, Constance, doing business as J. S. Wong, San Francisco, Calif. Enamled copperware ash trays and cigarette boxes. Serial No. 618,324, May 19. Class 8.
Paramount Television & Appliance Co., Providence, R. I. Television sets and radios. Serial No. 624,203, May 19. Class 21.
Pardee Company, The: *See*—
Pardee, William S.
Pardee, William S., doing business as The Pardee Company, Hollywood, Calif. Synthetic precious and semi-precious gems. Serial No. 618,325, May 19. Class 28.
Parkwood Corporation: *See*—
Parkwood Laminates, Inc.
Parkwood Laminates, Inc., Wakefield, Mass., assignee of Parkwood Corporation. Material consisting of natural wood veneer. Serial No. 609,310, May 19. Class 12.
Peabody Seating Company, Inc., The, North Manchester, Ind. Desks and seating equipment. Serial No. 626,531, May 19. Class 32.
Pearlduck, Inc., New York, N. Y. Razors, shears, scissors, etc. Serial No. 623,630, May 19. Class 23.
Perfumatic of Canada Limited, Toronto, Ontario, Canada. Coin-operated vending machinery. Serial No. 621,682, May 19. Class 23.
Petec Pan Foundations, Inc., New York, N. Y. Brassières. Serial No. 626,262, May 19. Class 39.
Peter Pan Ice Cream & Sandwich Shop, Inc., Chicago, Ill., assignor, by mesne assignments, to Peter Pan Restauranta, Inc. Restaurant service. Serial No. 604,218, May 19. Class 100.
Peter Pan Restauranta, Inc., assignee: *See*—
Peter Pan Ice Cream & Sandwich Shop, Inc.
Philipp Brothers Chemicals, Inc., New York, N. Y. Cadmium metal, copper, zinc, etc. Serial No. 634,479, May 19. Class 14.
Phillips Seafood Packing Company, Bivalve, N. J. Fresh canned seafood. Serial No. 622,352, May 19. Class 46.
Pincus Bros. Incorporated, Philadelphia, Pa. Men's suits, sportcoats, slacks, topcoats, etc. Serial No. 629,122, May 19. Class 39.
Polaris Company, Inc., Jersey City, N. J. Tooth powder. Serial No. 618,759, May 19. Class 51.
Polychrome Corporation, Yonkers, N. Y. Hand cream. Serial No. 608,122, May 19. Class 51.
Ponce Candy Industries, Ponce, Puerto Rico. Candy. Serial No. 627,459, May 19. Class 46.
Professional Golfers' Association of America, The, Chicago, Ill. Instructing in the game of golf, etc. Serial No. 623,154, May 19. Class 107.
Protective Coatings Corporation, Clifton, N. J. Bags, boxes, and cartons. Serial No. 639,896, May 19. Class 2.
Pure Oil Company, The, Chicago, Ill. Automobile shampoo, automobile cooling system cleaner. Serial No. 604,221, May 19. Class 52.
Purex Corporation, Ltd., South Gate, Calif. General cleaning preparations. Serial No. 639,834, May 19. Class 52.
RWL Wine & Liquor Company, Incorporated, Baltimore, Md. Wines. Serial No. 635,098, May 19. Class 47.
Ramos, Joaquin, doing business as Universal Botanic, Brooklyn, N. Y. Medicated liniment. Serial No. 628,169, May 19. Class 18.
Raynec & Company Limited, London, England. Non-alcoholic maltless soft drinks. Serial No. 602,776, May 19. Class 45.
Raytex Industries, Inc., Chicago, Ill. Plastic coated fiber glass sheet material. Serial No. 627,774, May 19. Class 1.
Red Devil Tools, Irvington, N. J. Wedges for tool handles. Serial No. 592,841, May 19. Class 13.
Remington Arms Company, Inc., Bridgeport, Conn. Ammunition. Serial No. 637,330, May 19. Class 9.
Riethmiller, Ray, Columbus, Ohio. Packaged installation system. Serial No. 621,227, May 19. Class 12.
Rose Fashions, Inc., New York, N. Y. Women's, misses', and children's outer and inner apparel and accessories. Serial No. 602,778, May 19. Class 39.
Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos-cement siding. Serial No. 638,374, May 19. Class 12.
Ruegsegger, Ted W., doing business as Tedrick Company, Chicago, Ill. Resurfacing of structures. Serial No. 631,181, May 19. Class 103.
Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Steel. Serial No. 640,010, May 19. Class 14.
Schenley Import Corporation, New York, N. Y. Wines. Serial No. 628,225, May 19. Class 47.
Scheri & Roth, Inc., Cleveland, Ohio. Violas, cellos, and string basses. Serial No. 626,702, May 19. Class 36.
Scovill Manufacturing Company, Waterbury, Conn. Safety pins and straight pins. Serial No. 629,523, May 19. Class 40.
Scovill Manufacturing Company, Waterbury, Conn. Safety pins and hooks and eyes. Serial No. 629,524, May 19. Class 40.
Sealy, Incorporated, Chicago, Ill. Mattresses, box springs, sofa beds, etc. Serial No. 557,871, May 19. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Overalls. Serial No. 605,272, May 19. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Counter display material consisting of color chip cards and literature. Serial No. 632,800, May 19. Class 38.
Seidenbach's, Tulsa, Okla. Ladies' and misses' coats, dresses and suits. Serial No. 610,588, May 19. Class 39.
Selby Shoe Company, The, Portsmouth, Ohio. Women's shoes. Serial No. 626,004, May 19. Class 39.
Seminole Flavor Company, Chattanooga, Tenn. Cola variety of carbonated non-alcoholic, non-cereal maltless beverages. Serial No. 518,984, May 19. Class 45.
Sentinel (Shrewsbucy) Limited, Shrewsbury, Shropshire, England. Internal combustion engines, portable engines, carburetors, machine tools, etc. Serial No. 600,086, May 19. Class 23.
Sigma Phi Delta Fraternity, Urbana, Ill. Fraternity pins, badges, buttons, etc. Serial No. 630,856, May 19. Class 28.
Singer Manufacturing Company, The, Elizabeth, N. J. Emery cord. Serial No. 628,564, May 19. Class 4.
Singer Manufacturing Company, The, Elizabeth, N. J. Petroleum derivative for use in cleaning. Serial No. 628,565, May 19. Class 52.
Singer Manufacturing Company, The, Elizabeth, N. J. Surgical stitching instruments, their parts and attachments. Serial No. 628,576, May 19. Class 44.
Singer Manufacturing Company, The, Elizabeth, N. J. Electric motors, electro-mechanical drives, electric transmitters, etc. Serial No. 628,579, May 19. Class 21.
Smith, E. Errett, Inc., New York, N. Y. Christmas cards and greeting cards. Serial No. 629,963, May 19. Class 38.
Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Ready mixed paints. Serial No. 638,322, May 19. Class 16.
Southern Biscuit Company: *See*—
Weston Biscuit Company Inc.
Spotnails, Inc., Evanston, Ill. Manual stapling machines. Serial No. 631,822, May 19. Class 23.
Springfield Electrical Specialties, Inc., New York, N. Y. Electrical contact or breaker points. Serial No. 615,295, May 19. Class 21.
Staley, A. E., Manufacturing Company, Decatur, Ill. Edible carbohydrates, edible fats and oils, edible vegetable proteins, etc. Serial No. 610,237, May 19. Class 46.
Standard Insole Company, Inc., Morris Plains, N. J. Rubber insoles. Serial No. 627,778, May 19. Class 39.
Steele's Pansy Gardens, Portland, Oreg. Pansy seeds. Serial No. 603,392, May 19. Class 1.
Steiner Sales Company Division of American Linen Supply Co.: *See*—
American Linen Supply Co.
Stern, Brothers, New York, N. Y. Ironing board covers and clothes pins. Serial No. 639,513, May 19. Class 24.
Stetson Clothes, Inc., Baltimore, Md. Men's suits. Serial No. 612,042, May 19. Class 39.
Stolzman, Bernard, also known as Bernie Mann, Flushing, N. Y. Musical entertainment. Serial No. 606,816, May 19. Class 107.
Strause, Levi, & Company, San Francisco, Calif. Men's, women's, and children's overalls, shirts, jackets, etc. Serial No. 626,915, May 19. Class 39.
Strouse-Baer Company, Inc., The, Baltimore, Md. Overalls. Serial No. 624,213, May 19. Class 39.
Suffolk Farms Packing Co., Revere and Chelsea, Mass. Fresh fruits, fresh vegetables, and seasonings. Serial No. 623,692, May 19. Class 46.
Tedrick Company: *See*—
Ruegsegger, Ted W.
Telex, Inc., St. Paul, Minn. Maintenance and repair of electronic devices. Serial No. 618,410, May 19. Class 103.
Temco Aircraft Corporation, Grand Prairie and Dallas, Tex. Airplanes and the structural or body parts of airplanes. Serial No. 633,395, May 19. Class 19.
Ten-B-Low Company: *See*—
M & R Dietetic Laboratories Inc.
Terrytoons, Inc., New Rochelle, N. Y. Comic strips. Serial No. 624,981, May 19. Class 38.
Tested Papers of America, Inc., Chicago, Ill. Facial and toilet tissue, wax paper, paper napkins, etc. Serial No. 616,521, May 19. Class 37.
Tested Papers of America, Inc., Chicago, Ill. Paper towels, facial tissue, toilet tissue, etc. Serial No. 616,524, May 19. Class 37.
Theosophical Endowment Corporation, doing business as Theosophical University Press, Pasadena and Altadena, Calif. Non-sectarian, non-political monthly publication. Serial No. 627,782, May 19. Class 38.
Theosophical University Press: *See*—
Theosophical Endowment Corporation.

Todd Company, Inc., The, Rochester, N. Y. Posting boards and partially printed forms. Serial No. 612,939, May 19. Class 37.
Tree Tool & Die Works, Racine, Wis. Metal working machines. Serial No. 624,982, May 19. Class 23.
Triangle Paper and Box Co., Chicago, Ill. Corrugated paperboard cartons. Serial No. 539,916, May 19. Class 2.
Turner Brothers Asbestos Company Limited, Manchester and Rochdale, England. Flock moulding material and felt moulding material. Serial No. 635,942, May 19. Class 1.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. Serial No. 639,909, May 19. Class 2.
Union Carbide and Carbon Corporation, New York, N. Y. Metal alloys; metal alloy welding rods; and metal alloy castings, etc. Serial No. 619,273, May 19. Class 14.
United Packers, Inc., Chicago, Ill. Meats. Serial No. 620,533, May 19. Class 46.
United Press Associations, New York, N. Y. Column published in daily newspapers. Serial No. 634,176, May 19. Class 38.
U. S. Plastic Co., Pasadena, Calif. Toy guns. Serial No. 635,615, May 19. Class 22.
United States Plywood Corporation, New York, N. Y. Laminated construction material. Serial No. 615,033, May 19. Class 12.
United States Rubber Company, New York, N. Y. Pneumatic tires and inner tubes. Serial No. 638,504, May 19. Class 35.
United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Steel sheets. Serial No. 627,720, May 19. Class 14.
United States Steel Corporation: *See*—
United States Steel Company.
Universal Botanic: *See*—
Ramos, Joaquin.
Vanity Fair Mills, Inc., Reading, Pa. Women's and children's apparel. Serial No. 633,231, May 19. Class 39.
Veterans of Foreign Wars of the United States, Kansas City, Mo. Lapel emblems, belt buckles, tie clasps, etc. Serial No. 616,261, May 19. Class 28.
Von Schrader Manufacturing Company, Racine, Wis. Dry cleaning powder. Serial No. 623,522, May 19. Class 52.
Walsh, James, & Company, Inc., Lawrenceburg, Ind. Bourbon whiskey. Serial No. 628,512, May 19. Class 49.
Wayne Shoe Company, Boston Mass. Leather shoes. Serial No. 621,928, May 19. Class 39.
Weideman Company, The, Cleveland, Ohio. Cigars. Serial No. 627,156, May 19. Class 17.
Weiger Weed & Company, Detroit, Mich. Alloys in bar, rod, and slab form. Serial No. 641,106, May 19. Class 14.
West Disinfecting Company, Long Island City, N. Y. Chemical tablets. Serial No. 625,162, May 19. Class 6.
Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. Automatic X-ray control apparatus. Serial No. 577,833, May 19. Class 21.
Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cookies. Serial No. 617,687, May 19. Class 46.
West Shore Chain Works, Inc., Carlisle and Lemoyne, Pa. Twin emergency chains. Serial No. 635,013, May 19. Class 13.
White, John, Footwear Limited, Higham Ferrers, England. Women's and girls' boots, shoes, and slippers. Serial No. 633,240, May 19. Class 39.
Wiegand, Edwin L., Company, Pittsburgh, Pa. Electric range units and immersion heaters, and parts thereof. Serial No. 620,385, May 19. Class 21.
Wilbar's, Inc., Boston, Mass. Ladies' shoes and slippers. Serial No. 621,348, May 19. Class 39.
Wine Growers Guild, Lodi, Calif. Wines. Serial No. 615,671, May 19. Class 47.
Wiser's Distillery Limited, Montreal, Quebec, Canada. Canadian whiskey. Serial No. 605,623, May 19. Class 49.
Wolf, Robert S., assignee: *See*—
Holiday Froated Food Co.
Wong, Jade S.: *See*—
Ong, Constance.
Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation. Hydraulic decoking systems and apparatus for removing coke from coke chambers, hydraulic log debarking apparatus, etc. Serial No. 526,727, May 19. Class 23.
Worthington Corporation, Harrison, N. J., by change of name from Wirthington Pump and Machinery Corporation. Hydraulic decoking systems and apparatus for removing coke from coke chambers, hydraulic log debarking apparatus, etc. Serial No. 526,737, May 19. Class 23.
Worthington Pump and Machinery Corporation: *See*—
Worthington Corporation.
Wright, G. F., Steeel & Wire Co., Worcester, Mass. Woven wire netting. Serial No. 529,519, May 19. Class 13.
Yacenda, Thomas J., trading as Deep Rock Refining Co., Richmond, Va. Bleaching, cleansing, antiseptic, and germicidal compound. Serial No. 617,222, May 19. Class 52.
Yale Belt Corp., New York, N. Y. Ladies', men's, and boys' belts. Serial No. 627,656, May 19. Class 39.
Zimmer Boat & Trailer Co., Detroit, Mich. House trailers. Serial No. 643,751, May 19. Class 19.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Products Company, Inc.: *See*—
Albany Perforated Wrapping Paper.
A/S S. E. Albertus, Copenhagen, Denmark. Cheese. 574,764–5, May 19; Serial Nos. 635,625–6, published Feb. 24, 1953. Class 46.
Abbott Laboratories, North Chicago, Ill. Dermatological cream. 574,616, May 19; Serial No. 628,742, published Feb. 10, 1953. Class 18.
Adjustable Clamp Company, Chicago, Ill. Hand and screw clamps and parts thereof; and for lathe dogs and parts thereof. 412,671, Mar. 20, 1945; republished May 19, 1953. Class 23.
Aktiebolaget Vibro-Verken, Stockholm, Sweden. Brackets and locking levers and locking bolts. 574,738, May 19; Serial No. 633,443, published Feb. 17, 1953. Class 13.
Albany Perforated Wrapping Paper Company, Albany, to A. P. W. Products Company, Inc., New York, N. Y. Toilet paper. 91,741; re-renewed May 27, 1953. O. G. May 19. Class 37.
Allied Knitting Mills, New York, N. Y. Men's and boys' neckties, sport shirts, basque shirts. 574,564, May 19; Serial No. 618,278, published Feb. 17, 1953. Class 39.
Amerex Trading Corporatinn, New York, N. Y. Ladies' and men's scarves. 574,675, May 19; Serial No. 620,981, published Feb. 3, 1953. Class 39.
American Automatic Ice Machine Co., Minneapolis, Minn. Automatic ice machine. 574,560, May 19; Serial No. 592,242, published July 15, 1952. Class 31.
American Brands Company: *See*—
Pressner, Samuel.
American Chewing Products Corp., Newark, N. J. Chewing gum. 574,681, May 19; Serial No. 630,301, published Feb. 10, 1953. Class 46.
American Colortype Company, Chicago, Ill. Trade publications. 574,507, May 19; Serial No. 594,514, published Feb. 24, 1953. Class 38.
American Cyanamid Company, New York, N. Y. Medicinal tablets. 574,540, May 19; Serial No. 613,962, published Feb. 10, 1953. Class 18.
American Diaper Service: *See*—
Gordon-Nick Linen Supply Company.
American Felt Company, Glenville, Conn. Dust filters. 574,723, May 19; Serial No. 632,971, published Feb. 10, 1953. Class 31.
American Gilsonite Company, Salt Lake City, Utah. Ground, hard bitumen used as insulating material. 574,613, May 19; Serial No. 623,295, published Mar. 3, 1953. Class 12.
American Hard Rubber Company, Hempstead and New York, N. Y. Hard rubber combs. 574,552, May 19; Serial No. 615,105, published Dec. 30, 1952. Class 40.
American Institute of Electrical Engineers, New York, N. Y. Monthly periodical. 574,748, May 19; Serial No. 633,954, published Feb. 24, 1953. Class 38.
American Machine and Metals, Inc.: *See*—
United States Gauge Company.
American Silk Mills, Inc., New York, N. Y. Textile piece goods. 574,716, May 19; Serial No. 632,546, published Mar. 3, 1953. Class 42.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, now by merger United States Steel Corporation. 574,556, May 19. Cord or rope, Serial No. 616,806, published July 1, 1952, Class 7; electrical wire, Serial No. 616,808, published Feb. 26, 1952, Class 21. (Consolidated certificate, Classes 7 and 21.)
American Woolen Company, New York, N. Y. Textile fabric. 574,756, May 19; Serial No. 634,677, published Mar. 3, 1953. Class 42.
Amphitrite Marine Company: *See*—
Photiadis, F. J.
Anderson, Clayton & Co., Houston, Tex. Infants' blankets. 574,629–30, May 19; Serial Nos. 625,238–9, published Feb. 24, 1953. Class 42.
Anderson, Clayton & Co., Houston, Tex. Infants' blankets. 574,631, May 19; Serial No. 625,243, published Feb. 24, 1953. Class 42.
Anderson, V. D., Company, The, Cleveland, Ohio. Separators having vane means. 574,615, May 19; Serial No. 623,496, published Feb. 17, 1953. Class 23.
Apjar Van Stolk Trading Corp., New York, N. Y. Metalized hand-made bricks. 574,601, May 19; Serial No. 622,320, published Mar. 3, 1953. Class 12.

Approved Comics, Inc., New York, N. Y. Magazines. 574,657, May 19; Serial No. 628,905, published Feb. 17, 1953. Class 38.

Approved Comics, Inc., New York, N. Y. Magazines. 574,658, May 19; Serial No. 628,911, published Feb. 17, 1953. Class 38.

Aquadyne Corporation, New York, N. Y. Cylinder, pipe lines, and valves. 574,559, May 19; Serial No. 617,273, published Feb. 17, 1953. Class 13.

Arlite Industries, Inc., Newark, N. J. Storm windows and storm window frames. 574,596, May 19; Serial No. 621,650, published Mar. 8, 1953. Class 12.

Armstrong Bros. Tool Co., Chicago, Ill. High-speed cutter bits, blades and cutters. 574,508, May 19; Serial No. 595,351, published Jan. 13, 1953. Class 23.

Arnold-Dain Corporation, Lake Mahopac, N. Y. Red cedar picket fence. 574,485, May 19; Serial No. 575,391, published Mar. 3, 1953. Class 12.

Associated Merchandising Corporation, The, New York, N. Y. Carpet sweepers. 574,649, May 19; Serial No. 628,031, published Jan. 20, 1953. Class 23.

Athleve Company, The: *See*—
Cohn, Aaron B.

Atlantic Packing Company: *See*—
Consolidated Rendering Company.

Atlantic Sponge & Chamois Corporation, New York, N. Y. Chamois. 574,637, May 19; Serial No. 625,571, published Feb. 17, 1953. Class 1.

Austin, Dale W., Hollywood, Calif. Corrective weight distributing inserts for use in shoes. 574,664, May 19; Serial No. 629,188, published Feb. 10, 1953. Class 44.

Avila Fabrics, Inc., New York, N. Y. Textile fabric. 574,682, May 19; Serial No. 630,304, published Feb. 24, 1953. Class 42.

B–K Products, Los Angeles and Inglewood, Calif. Adhesives. 574,608, May 19; Serial No. 622,981, published Feb. 24, 1953. Class 5.

Bacon-Scott Co., Inc., New York, N. Y. Hosiery. 574,662, May 19; Serial No. 629,084, published Feb. 17, 1953. Class 39.

Bagdasarian, Richard, & Co., Thermal, Calif. Fresh grapes. 574,737, May 19; Serial No. 633,408, published Feb. 24, 1953. Class 46.

Bailey Meter Company, Cleveland, Ohio. Fluid pressure control instrument, unit comprising automatic-manual selector valve with indicator, etc. 574,529, May 19; Serial No. 607,206, published Jan. 6, 1953.

Baker Castor Oil Company, The, Jersey City, N. J. Stabilizers for polyvinyl resins. 574,760, May 19; Serial No. 635,022, published Mar. 3, 1953. Class 6.

Bakers Associates Incorporated, Chicago, Ill. Bread. 574,479, May 19; Serial No. 558,341, published Feb. 24, 1953. Class 46.

Ballantyne of Peebles, Inc., New York, N. Y. Men's, women's, boys' and girls' sweaters. 574,692, May 19; Serial No. 630,695, published Feb. 17, 1953. Class 39.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 574,544, May 19; Serial No. 613,394, published Feb. 24, 1953. Class 42.

Bar-Brook Manufacturing Co., Inc., Shreveport, La. Large metal boxes. 574,787, May 19; Serial No. 531,988. Class 2.

Baroness Blouse, Inc., New York, N. Y. Ladies' and misses' blouses and jackets. 574,642, May 19; Serial No. 627,243, published Feb. 24, 1953. Class 39.

Batlin, L., & Son, Inc., New York, N. Y. Cigarette and cigar lighters and parts thereof. 574,714, May 19; Serial No. 632,352, published Feb. 24, 1953. Class 8.

Baughn Chemical Products Co.: *See*—
Bond Chemical Products Co.

Beaunit Mills, Inc., New York, N. Y. Novelty synthetic yarns. 574,776, May 19; Serial No. 637,163, published Feb. 24, 1953. Class 43.

Belrug Mill, Inc.: *See*—
Belrug Mills of South Carolina.

Belrug Mills of South Carolina, Greenville, S. C., formerly having the corporate name of Belrug Mill, Inc. Woven pile rugs. 574,703, May 19; Serial No. 631,599, published Feb. 10, 1953. Class 42.

Benioffs Furs, Allentown, Pa. Fur coats, fur jackets, fur capes, etc. 574,497, May 19; Serial No. 588,476, published Feb. 10, 1953. Class 39.

Berst, C. J., & Co., Portage, Wis. Cheese. 574,663, May 19; Serial No. 629,148, published Feb. 24, 1953. Class 46.

Best & Co. Inc., New York, N. Y. Wearing apparel. 574,538, May 19; Serial No. 611,500, published Feb. 24, 1953. Class 39.

Best Foods, Inc., The, New York, N. Y. Salad dressing. 574,779, May 19; Serial No. 637,565, published Mar. 3, 1953. Class 46.

Birdy Products Corp., New York, N. Y. Infants' waterproof panties and for infants' play suits. 574,593, May 19; Serial No. 621,305, published May 27, 1952. Class 39.

Birmingham Paper Company, Birmingham, Ala. Tablets and writing paper. 245,303, Aug. 7, 1928. Republished May 19. Class 37.

Birmingham Paper Company, Birmingham, Ala. Glue and library and school paste. 574,598, May 19; Serial No. 622,006, published Feb. 24, 1953. Class 5.

Bliss Syrup & Preserving Co., Kansas City, Mo. Imitation peach jam. 574,476, May 19; Serial No. 545,430, published Feb. 10, 1953. Class 46.

Blue Plate Foods, Inc.: *See*—
Southern Coffee Mills, Ltd.

Bodine, William L., Elyria, Ohio. Clothesline or laundry supporting equipment. 574,611, May 19; Serial No. 623,179, published Feb. 24, 1953. Class 24.

Bond Chemical Products Co., Chicago, Ill., by change of name from Baughn Chemical Products Co. Chemical impregnated tacky cloth wipers. 574,510, May 19; Serial No. 597,659, published Sept. 2, 1952. Class 29.

Borden Company, The, New York, N. Y. Biscuits. 574,503, May 19; Serial No. 617,979, published Feb. 17, 1953. Class 46.

Breck, John H., Inc., Springfield, Mass. Soap shampoos, baby skin soaps, etc. 574,492, May 19; Serial No. 584,217, published Feb. 24, 1953. Class 52.

Breck, John H., Inc., Springfield, Mass. Hair creams, hair dressings and hair oils. 574,493, May 19; Serial No. 584,965, published Feb. 24, 1953. Class 51.

Brown & Sharpe Manufacturing Company, Providence, R. I. Apparatus comprising strain gauges and an electronic amplifier. 574,490, May 19; Serial No. 582,020, published Jan. 13, 1953. Class 26.

Buchanan, James, & Company Limited, London, England. Whisky. 303,740, renewed June 6, 1953. O. G. May 19. Class 49.

Burke Golf Equipment Corporation, Newark, Ohio. Golf clubs, golf balls, golf bags, etc. 574,646, May 19; Serial No. 627,803, published Feb. 24, 1953. Class 22.

Burke Golf Equipment Corporation, Newark, Ohio. Golf clubs, golf balls, golf bags, etc. 574,647, May 19; Serial No. 627,805, published Feb. 24, 1953. Class 22.

Burke Golf Equipment Corporation, Newark, Ohio. Golf balls and golf clubs. 574,686, May 19; Serial No. 630,382, published Feb. 24, 1953. Class 22.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics. 574,751, May 19; Serial No. 634,234, published Mar. 3, 1953. Class 42.

Burrus Feed Mills: *See*—
Burrus Mills, Incorporated.

Burrus Mills, Incorporated, Dallas, also doing business under the name and style of Burrus Feed Mills, Fort Worth, Tex. Feeds. 574,653, May 19; Serial No. 628,010, published Feb. 17, 1953. Class 46.

Calja Incorporated, Van Nuys, Calif. Men's and women's leather jackets. 574,690, May 19; Serial No. 630,576, published Feb. 3, 1953. Class 39.

Cal-Sun, Inc., Los Angeles, Calif. Men's and boys' sport shirts. 574,722, May 19; Serial No. 632,872, published Feb. 10, 1953. Class 39.

Carborundum Company, The, by The Carborundum Company, Niagara Falls, N. Y. Filter plates, filter tubes, diffuser plates, etc. 301,999, Mar. 21, 1933. Republished May 19. Class 31.

Carey Electronic Engineering Company: *See*—
Carey, Reece M.

Carey, Reece M., doing business as Carey Electronic Engineering Company, Springfield, Ohio. Air filters. 574,502, May 19; Serial No. 593,161, published Feb. 24, 1953. Class 31.

Carnation Company, Los Angeles, Calif. Dairy products. 574,591, May 19; Serial No. 621,130, published Feb. 24, 1953. Class 46.

Carnrick, G. W., Co., New York, N. Y., to G. W. Carnrick Co., Newark, N. J. Internal secretions to supply deficient secretions of the spleen, thyroid, etc. 92,035, re-renewed July 22, 1953. O. G. May 19. Class 18.

Carpenter Steel Company, The, Reading, Pa. Steel. 574,566–7, May 19; Serial Nos. 618,676–7, published Mar. 3, 1953. Class 14.

Carpenter Steel Company, The, Reading, Pa. Steel. 574,568–76, May 19; Serial Nos. 618,686–94, published Mar. 3, 1953. Class 14.

Carter & Parker Limited, Golseley, England. Yarns. 303,627, renewed May 30, 1953. O. G. May 19. Class 43.

Cavalier Cravat Company, Louisville, Ky. Neckties. 574,725–6, May 19; Serial Nos. 633,034–5, published Feb. 10, 1953. Class 39.

Central Soya Company, Inc., Fort Wayne, Ind. Enriched hog feed. 574,592, May 19; Serial No. 621,200, published Feb. 24, 1953. Class 46.

Chad Valley Company Limited, The, Birmingham, England. Dolls, doll clothes, doll houses and furniture; etc. 301,558, renewed Mar. 7, 1953. O. G. May 19. Class 22.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Ladies' hosiery. 574,731, May 19; Serial No. 633,256, published Feb. 17, 1953. Class 39.

Challenger Products, Inc., Pittsburgh, Pa. Storm windows and storm doors. 574,768, May 19; Serial No. 635,871, published Mar. 3, 1953. Class 12.

Champion Hardware Company, The, Geneva, Ohio. Sash lifts, door stops and pulls, base knobs, etc. 303,886, renewed June 13, 1953. O. G. May 19. Class 13.

Chattanooga Pharmacal Co., Inc., Chattanooga, Tenn. Therapeutic steam packs. 574,604, May 19; Serial No. 622,428, published Feb. 24, 1953. Class 44.

Chem-Co., Inc., Baltimore, Md. Disinfectants and germicides. 574,713, May 19; Serial No. 632,292, published Mar. 3, 1953. Class 6.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Photographic, photoengraving and photomechanical appliances, apparatus, machines and supplies. 574,501, May 19; Serial No. 592,548, published Jan. 6, 1953. Class 26.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 574,674, May 19; Serial No. 629,885, published Feb. 10, 1953. Class 18.

Chicopee Mills, Inc., New York, N. Y. Bed sheets, crib sheets and pillow cases. 574,621, May 19; Serial No. 624,225, published Mar. 3, 1953. Class 42.

Chippewa Paper Products Co. Inc., Chicago, Ill. Corrugated paper mats. 574,644, May 19; Serial No. 627,674, published Jan. 6, 1953. Class 37.

Chrysler Corporation, Highland Park, Mich. Structural panel for walls and the like. 574,633, May 19; Serial No. 625,341, published Mar. 3, 1953. Class 12.

Clamp-A-Rag Window Cleaner Co.: *See*—
De Vore, Peter W.

Claude Neon Electrical Products Corporation, Ltd., to Electrical Products Corporation, Los Angeles, Calif. Gaseous discharge tubular lamps. 301,512, renewed Mar. 7, 1953. O. G. May 19. Class 21.

Cleanola Company, The, Pittsburgh, Pa. Metal polish. 574,539, May 19; Serial No. 611,640, published Mar. 3, 1953. Class 4.

Clover Farm Stores Corporation, Cleveland, Ohio. Canned foods, frozen foods. 574,481, May 19; Serial No. 502,706, published Feb. 17, 1953. Class 46.

Cockshutt Farm Equipment Limited: *See*—
Cockshutt Plow Company Limited.

Cockshutt Plow Company Limited, to Cockshutt Farm Equipment Limited, Brantford, Ontario, Canada. Implements for simultaneously plowing, cultivating, and seeding and parts of such implements. 301,677, renewed Mar. 7, 1953. O. G. May 19. Class 23.

Cohn, Aaron B., doing business as The Athleve Company, Toledo, Ohio. Powder for treatment of epidermophyton, trichophyton, etc. 300,592, renewed Jan. 24, 1953. O. G. May 19. Class 18.

Collins, Katherine L.: *See*—
Hollywood, Inc.

Columbia Malting Company, The, Chicago, Ill. Commercial barley malt. 574,526, May 19; Serial No. 605,995, published Mar. 3, 1953. Class 46.

Commercial Controls Corporation, Rochester, N. Y. Power operated typewriting means featuring an attachment or part, and final copy power operated typewriting machines, etc. 574,504, May 19; Serial No. 593,529, published Feb. 17, 1953. Class 23.

Commercial Controls Corporation, Rochester, N. Y. Font of type. 574,796–7, May 19; Serial Nos. 628,094–5. Class 14.

Commercial Milling Co., The, Detroit, Mich., by International Milling Company, Minneapolis, Minn. Wheat flour. 108,390, Feb. 8, 1916. Republished May 19. Class 46.

Commercial Milling Co., The, Detroit, Mich., by International Milling Company, Minneapolis, Minn. Wheat flour. 361,151, Oct. 11, 1938. Republished May 19. Class 46.

Cone Mills Inc., New York, N. Y. Denim fabrics. 574,763, May 19; Serial No. 635,406, published Mar. 3. Class 42.

Cone Mills Inc., New York, N. Y. Flannel piece goods. 574,760, May 19; Serial No. 635,956, published Mar. 3, 1953. Class 42.

Conserves Hero Lenzbourg, Niederlenzer Kirchweg, Lenzbourg, Switzerland. Conserved fruits and vegetables; fruit marmalades and jams, etc. 574,752, May 19; Serial No. 634,241, published Feb. 24, 1953. Class 46.

Consolidated Grocers Corporation: *See*—
Reid, Murdoch & Co.

Consolidated Rendering Company, also doing business as Atlantic Packing Company, Boston, Mass. Soap, grease for soap-making, and a basic material—namely, tallow. 574,534, May 19; Serial No. 610,005, published Feb. 24, 1953. Class 52.

Corporacion Argentina de Productores de Carnes, New York, N. Y. Canned corned beef, canned corned tongue, canned corned pork, etc. 574,541, May 19; Serial No. 612,641, published Feb. 24, 1953. Class 46.

Cube Steak Machine Co., Needham Heights, Mass. Meat. 574,785, May 19; Serial No. 535,688, published Feb. 10, 1953. Class 46.

Dalton, Joseph A., Manson, Iowa. Wall calendars. 574,697, May 19; Serial No. 631,204, published Feb. 17, 1953. Class 38.

Daniels, Jay V., by Dearborn Supply Company, Chicago, Ill. Face powders. 87,859, Aug. 13, 1912. Republished May 19. Class 51.

Danielson, Florence L., doing business as "Tie-To" Insert Co., Milwaukee, Wis. Metal lath hanger. 574,404, May 19; Serial No. 585,980, published Mar. 3, 1953. Class 12.

Davis Milling Company, The, St. Joseph, Mo., to The Quaker Oats Company, Chicago, Ill. Pancake flour. 90,516, re-renewed Mar. 4, 1933. O. G. May 19. Class 46.

Davis, R. T., Mill & Mfg. Co., St. Joseph, Mo., to The Quaker Oats Company, Chicago, Ill. Prepared malted wheat-flake food. 40,006, re-renewed Mar. 31, 1953. O. G. May 19. Class 46.

Dean Company, The, Chicago, Ill. Boards for the construction of walls. 574,565, May 19; Serial No. 618,537, published Mar. 3, 1953. Class 12.

Dean Rubber Manufacturing Co., North Kansas City, Mo. Prophylactic rubber articles. 574,639, May 19; Serial No. 626,562, published Feb. 3, 1953. Class 44.

Dearborn Supply Company: *See*—
Daniels, Jay V.

Deiber, Emer R., Laguna Beach, Calif. Playing cards. 574,597, May 19; Serial No. 621,960, published Feb. 24, 1953. Class 22.

De Vito, Michael J., New London, Conn. Partially printed record books. 574,549, May 19; Serial No. 614,494, published Jan. 13, 1953. Class 37.

Devoe & Raynolds Company, Inc.: *See*—
Truscon Laboratories, The.

De Vore, Peter W., doing business as Clamp-A-Rag Window Cleaner Co., Astoria, N. Y. Portable and hand-operated window-cleaning device. 574,780, May 19; Serial No. 584,974. Class 29.

Displayers, Inc., The, New York, N. Y. Portable demountable display assemblies. 574,793, May 19; Serial No. 624,448. Class 50.

Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Metal carbides, particularly calcium carbide. 574,743, May 19; Serial No. 633,813, published Feb. 24, 1953. Class 6.

Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Perchlorethylene, and solvent mixtures. 574,744, May 19; Serial No. 633,816, published Feb. 24, 1953. Class 6.

Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Polyvinyl alcohol. 574,745, May 19; Serial No. 633,818, published Feb. 24, 1953. Class 6.

Donovan Enterprises, Saugatuck, Conn. Suspensory. 574,580, May 19; Serial No. 620,025, published Feb. 24, 1953. Class 44.

Donovan Enterprises, Saugatuck, Conn. Suspensory. 574,581–2, May 19; Serial Nos. 620,026–7, published Mar. 3, 1953. Class 44.

Donovan Enterprises, Saugatuck, Conn. Suspensory. 574,583, May 19; Serial No. 620,029, published Mar. 3, 1953. Class 44.

Dovel, I. N., Co., Inc., Luray, Va. Canned fruits and vegetables. 574,754, May 19; Serial No. 634,399, published Feb. 24, 1953. Class 46.

Drexel Furniture Company, Drexel, N. C. Dining room furniture. 574,679, May 19; Serial No. 630,262, published Mar. 3, 1953. Class 32.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Netting. 574,519, May 19; Serial No. 603,715, published Mar. 3, 1953. Class 42.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Netting. 574,523, May 19; Serial No. 604,958, published Mar. 3, 1953. Class 42.

Du Bois Co., Inc., The, assignee: *See*—
Du Bois Company, The.

Du Bois Company, The, Cincinnati, Ohio, assignor to The Du Bois Co., Inc. Liquid detergent preparation. 574,555, May 19; Serial No. 616,590, published Feb. 24, 1953. Class 52.

Dun, W. E., Manufacturing Company, The, Holland, Mich. Machines for manufacturing concrete roofing tile. 574,540, May 19; Serial No. 612,597, published Jan. 13, 1953. Class 23.

Du Pont, I. E., de Nemours & Company, Wilmington, Del. Ready-mixed paints. 126,670, Sept. 30, 1919. Amended. O. G. May 19. Class 16.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Radiation sensitive element for measuring light, temperature, and humidity. 574,680, May 19; Serial No. 630,529, published Jan. 6, 1953. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. General industrial arts solvents. 574,783, May 19; Serial No. 638,410, published Feb. 24, 1953. Class 6.

El Dorado Refining Company, The, El Dorado, Kans. Gasoline, kerosene, domestic fuel oils, etc. 574,708, May 19; Serial No. 631,792, published Nov. 11, 1952. Class 15.

Electrical Products Corporation: *See*—
Claude Neon Electrical Products Corporation, Ltd.

Electro-Chemical Products Corp., East Orange, N. J. Preparation for removing dust-attracting static electricity from records. 574,589, May 19; Serial No. 620,880, published Mar. 3, 1953. Class 6.

Elraco Engineering Company, Hoboken, N. J. Fuel additive. 574,603, May 19; Serial No. 622,383, published Aug. 5, 1952. Class 15.

Ely & Walker Dry Goods Company, St. Louis, Mo. Textile piece goods. 574,772, May 19; Serial No. 636,353, published Mar. 3, 1953. Class 42.

Essential Chemicals Co., Milwaukee, Wis. Chemical compound. 574,626, May 19; Serial No. 624,681, published Feb. 24, 1953. Class 52.

Esele, Mae: *See*—
McCrae, Carrie.

Europa Sales Corporation, New York, N. Y. Candy, chocolates, and cocoa. 301,376, Feb. 28, 1933. Republished May 19. Class 46.

Even-Pul Foundations, Inc., New York, N. Y. Brassières, girdles, corselets, and foundation garments. 574,554, May 19; Serial No. 616,372, published Feb. 19, 1952. Class 39.

Exeter Orchards Association, Exeter, Calif. Fresh citrus fruits. 574,495, May 19; Serial No. 587,077, published Feb. 17, 1953. Class 46.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyestuffs. 574,758, May 19; Serial No. 634,072, published Mar. 3, 1953. Class 6.

Federal Fence Manufacturing Company, Inc., Westerville, Ohio. Metal fences. 574,709, May 19; Serial No. 631,857, published Feb. 17, 1953. Class 13.

Federated Department Stores, Inc., Cincinnati, Ohio. Carving knives and forks, shears, scissors, etc. 574,654, May 19; Serial No. 628,752, published Feb. 17, 1953. Class 23.

Fiat Metal Manufacturing Company, Franklin Park, Ill. Shower doors, dressing stalls, metal toilet compartments, etc. 574,579, May 19; Serial No. 619,338, published Mar. 3, 1953. Class 12.

Fireside Marshmallow Company, Chicago, Ill. Marshmallows. 574,557, May 19; Serial No. 616,952, published Feb. 10, 1953. Class 46.

Fischer Film Laboratories, Chicago, Ill. Unexposed motion picture film. 574,543, May 19; Serial No. 613,220, published Jan. 6, 1953. Class 26.

Fisher Dairy and Cheese Company, Wapakoneta, Ohio. Cheese. 574,788, May 19; Serial No. 546,210. Class 46.

Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. 90,183–6, re-renewed Feb. 11, 1953. O. G. May 19. Class 46.

Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. 90,316–17, re-renewed Feb. 18, 1953. O. G. May 19. Class 46.

Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour, 90,977, re-renewed Apr. 8, 1953. O. G. May 19. Class 46.

Fisher Flouring Mills Company, doing business as Gallatin Valley Milling Co., West Waterway, Harbor Island, Seattle, to Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 303,709, renewed June 6, 1953. O. G. May 19. Class 46.

Folger, J. A., & Company, Kansas City, Mo. Coffee. 92,545–7, re-renewed July 15, 1953. O. G. May 19. Class 46.

Food Machinery and Chemical Corporation, San Jose, Calif. Agricultural and horticultural spraying and dusting machines. 574,488, May 19; Serial No. 578,925, published Jan. 20, 1953. Class 23.

Forstner Chain Corporation, Irvington, N. J. Key rings and key chains. 574,473, May 19; Serial No. 523,519, published Feb. 17, 1953. Class 13.

Fort Howard Paper Company, Green Bay, Wis. Paper napkins. 301,018, renewed Feb. 14, 1953. O. G. May 19. Class 37.

Fountain, Alfred W., Bexar, Ark. Pillow slips. 574,761, May 19; Serial No. 635,179, published Mar. 3, 1953. Class 42.

Fruit Products Corporation, New York, N. Y. Handle sticks. 574,746, May 19; Serial No. 633,843, published Feb. 17, 1953. Class 13.

G-B Corporation, Lynwood, Calif. Detergent preparation. 550,313, Oct. 30, 1951. Canceled Apr. 3, 1953. O. G. May 19. Class 52.

Gallatin Valley Milling Co.: *See*—
Fisher Flouring Mills Company.

Genie-Craft Corporation, Washington, D. C. Metal cooking ware. 574,641, May 19; Serial No. 627,181, published Feb. 17, 1953. Class 13.

Gerber Products Company, Fremont, Mich. Specially prepared cereal foods. 574,509, May 19; Serial No. 596,090, published Feb. 3, 1953. Class 46.

Gerber Products Company, Fremont, Mich. Cereals. 574,727, May 19; Serial No. 633,054, published Feb. 10, 1953. Class 46.

Gethner Drugs: *See*—
Gethner, Max M.

Gethner, Max M., doing business under the trade names Persyima Co. and Gethner Drugs, Chicago, Ill. Medicinal ointment. 574,588, May 19; Serial No. 620,499, published Feb. 10, 1953. Class 18.

Gibbons Bros., Rotary Company Limited, Birmingham, England. Vegetable cutters (hand tools). 574,614, May 19; Serial No. 623,413, published Jan. 20, 1953. Class 23.

Gidding, Joseph M., assignor to Horseshoes, Inc., New York, N. Y. Candy. 574,545, May 19; Serial No. 613,910, published Feb. 24, 1953. Class 46.

Gillette Safety Razor Company, Boston, Mass. Creme hair dressing. 541,186, Apr. 17, 1951. Amended. O. G. May 19. Class 51.

Glatfelter, P. H., Company, Spring Grove, Pa. Writing and printing paper. 304,137, renewed June 20, 1953. O. G. May 19. Class 37.

Gloeckler, H., Associates, Inc., New York, N. Y. Chewing gum. 574,577, May 19; Serial No. 618,926, published Feb. 24, 1953. Class 46.

Golden State Brush Company, North Hollywood, Calif. Paint brushes. 574,680, May 19; Serial No. 630,264, published Feb. 24, 1953. Class 29.

Gordon-Nick Linen Supply Company, doing business as American Diaper Service, Philadelphia, Pa. Diaper rental service. 574,803, May 19; Serial No. 616,633. Class 100.

Gotham Hosiery Company, Inc.: *See*—
Gotham Silk Mfg. Co.

Gotham Silk Mfg. Co., to Gotham Hosiery Company, Inc., New York, N. Y. Hosiery. 91,959, re-renewed June 10, 1953. O. G. May 19. Class 39.

Graham Paper Company, St. Louis, Mo. Bond paper. 304,772, renewed July 18, 1953. O. G. May 19. Class 37.

Gustin-Bacon Manufacturing Company, Kansas City, Mo. Thermal and acoustical material. 574,792, May 19; Serial No. 623,051. Class 12.

Had-A-Mouse Co.: *See*—
Henry, Lawrence A.

Harnor Industries, Inc. assignee: *See*—
Lewal Industries, Inc.

Harbison-Walker Refractories Company, Pittsburgh, Pa. Blast furnace bonding mortar. 574,780, May 19; Serial No. 637,657, published Mar. 3, 1953. Class 12.

Haskell, Charles C., & Co., Inc., Richmond, Va. Antispasmodic-sedative pharmaceutical preparation. 375,541, Feb. 20, 1940. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Preparation for the treatment of gastro-intestinal disturbances. 376,965, Apr. 9, 1940. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparation. 381,004, Sept. 10, 1940. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparation. 385,199, Feb. 18, 1941. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Analgesic-sedative tablets. 394,351, Mar. 31, 1942. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Ointment. 394,374, Mar. 31, 1942. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparations. 397,246, Aug. 25, 1942. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Preparation for thyroid administration. 409,716, Oct. 17, 1944. Republished May 19. Class 18.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparation. 412,011, Feb. 13, 1945. Republished May 19. Class 18.

Haverfield Company, The, Columbus, Ohio. Hats. 574,483, May 19; Serial No. 567,781, published Feb. 3, 1953. Class 39.

Hawkinson, Paul E., Company, Minneapolis, Minn. Hydraulic pumps. 574,605, May 19; Serial No. 622,825, published Jan. 20, 1953. Class 23.

Hawse, Raymond B., West Palm Beach, Fla. Foods. 574,520, May 19; Serial No. 603,787, published Feb. 10, 1953. Class 46.

Hemet Packing Company, Hemet, Calif. Canned fruits, canned vegetables, and canned olives. 574,478, May 19; Serial No. 554,978, published Feb. 10, 1953. Class 46.

Henkel, Leonard H., Oak Park, Mich. Artificial fish lures. 574,741, May 19; Serial No. 633,671, published Feb. 24, 1953. Class 22.

Henry, Lawrence A., doing business as Had-A-Mouse Co., Decatur, Ill. Rodenticides. 574,609, May 19; Serial No. 623,052, published Feb. 24, 1953. Class 6.

Hercules Powder Company, Wilmington, Del. Resin. 303,219, May 16, 1933. Republished May 19. Class 1.

Hilltop Farm Feed Co., Minneapolis, Minn. Egg mash. 574,525, May 19; Serial No. 605,743, published Feb. 24, 1953. Class 46.

Hobbs Manufacturing Company, Fort Worth, Tex. Truck trailers, bodies and parts thereof. 574,595, May 19; Serial No. 621,462, published Feb. 24, 1953. Class 19.

Hoe & Co. (1931) Limited, Stretford, Manchester, Lancashire, England. Sauce. 574,472, May 19; Serial No. 506,873, published Feb. 10, 1953. Class 46.

Hoffmann-Stafford Tanning Co., Chicago, Ill. Leather. 574,732, May 19; Serial No. 633,262, published Feb. 17, 1953. Class 1.

Holland Color and Chemical Company, Holland, Mich. Chemical colors. 574,706–7, May 19; Serial Nos. 631,738–9, published Feb. 24, 1953. Class 6.

Hollins, William, & Company Limited, Nottingham, England. Sheets, pillowcases, textile rugs, etc. 574,542, May 19; Serial No. 612,913, published Feb. 24, 1953. Class 42.

Hollywood, Inc., to K. L. Collins, Dallas, Tex. Astringenis, astringent cerates, bleach creams, etc. 294,740, renewed June 7, 1952. O. G. May 19. Class 51.

Holt, Elizabeth B., New York, N. Y. Costume jewelry. 574,794, May 19; Serial No. 624,832. Class 28.

Horseshoes, Inc., assignee: *See*—
Gidding, Joseph M.

House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. 574,740, May 19; Serial No. 633,983, published Mar. 3, 1953. Class 42.

Hub Appliance Stores: *See*—
Morguloff, Alex.

Hunter Douglas Corporation, New York, N. Y. Venetian blinds. 574,687, May 19; Serial No. 630,414, published Jan. 20, 1953. Class 32.

Ideal Curler Co., Chicago, Ill. Non-electric hair curlers. 574,619, May 19; Serial No. 623,891, published Dec. 30, 1952. Class 40.

Illinois Steel Company, Chicago, Ill., to Universal Atlas Cement Company, New York, N. Y. Portland cement. 49,321, re-renewed May 12, 1953. O. G. May 19. Class 12.

Indiana Fur Co. Inc., Indianapolis, Ind. Fur coats, capes, scarfs, etc. 574,480, May 19; Serial No. 560,624, published Feb. 10, 1953. Class 39.

International Milling Company: *See*—
Commercial Milling Co., The.
Robin Hood Mills, Limited.

International Milling Company: *See*—
Wells Flour Milling Company.

International Milling Company, Minneapolis, Minn. Wheat flour. 402,028, June 22, 1943. Republished May 19. Class 46.

Jaburg Brothers, Inc., to R. C. Williams & Company, Inc., New York, N. Y. Acetic acid, citric acid, tartaric acid, etc. 302,967, renewed May 2, 1953. O. G. May 19. Class 46.

Jaburg Brothers, Inc., to R. C. Williams & Company, Inc., New York, N. Y. Alimentary paste, butter, candies, etc. 304,005, renewed June 13, 1953. O. G. May 19. Class 46.

Jaburg Brothers, Inc., to R. C. Williams & Company, Inc., New York, N. Y. Alimentary paste, butter, candies, etc. 304,660, renewed July 11, 1953. O. G. May 19. Class 46.

Jaynard Publishing Co., Inc., Green Bay, Wis. Booklets. 574,695, May 19; Serial No. 630,936, published Feb. 17, 1953. Class 38.

Jerciaydon, Inc., Miami Beach, Fla. Cleaning composition and chemicals having cleansing properties. 574,600, May 19; Serial No. 622,302, published Feb. 24, 1953. Class 52.

Jets Inc., New York, N. Y. Shirts. 574,659, May 19; Serial No. 629,026, published Feb. 3, 1953. Class 39.

Jim-Jon Toy Co., Highland Park, Ill. Educational toy. 574,617, May 19; Serial No. 623,768, published Mar. 3, 1953. Class 22.

Joannes Brothers Company, doing business as Northwest Warehousing Co., Green Bay, Wis. Canned asparagus, green beans, wax beans, corn, etc. 574,474, May 19; Serial No. 532,459, published Mar. 27, 1951. Class 46.

Johns-Manville Corporation, New York, N. Y. Rod and piston packing. 302,739, renewed Apr. 25, 1953. O. G. May 19. Class 35.

Johnson, S. C., & Son, Inc., Racine, Wis. Cleaning and polishing preparation. 574,770, May 19; Serial No. 636,234, published Mar. 3, 1953. Class 4.

Juliana Lingerie, Inc., New York, N. Y. Ladies' and misses' nightgowns, petticoats, slips, etc. 574,717, May 19; Serial No. 632,566, published Feb. 17, 1953. Class 39.

Kagran Corporation, New York, N. Y. Toy balloons. 574,671, May 19; Serial No. 629,674, published Mar. 3, 1953. Class 22.

Kansas Milling Company, The, Wichita, Kans. Dough improver. 574,766, May 19; Serial No. 635,699, published Mar. 3, 1953. Class 46.

Katz, Irving, Inc., Brooklyn, N. Y. Living room furniture, bedroom furniture, dining room furniture, etc. 574,735, May 19; Serial No. 633,367, published Mar. 3, 1953. Class 32.

Kataman & Ware, Inc., Chicago, Ill. Women's fur apparel. 574,558, May 19; Serial No. 617,200, published Feb. 17, 1953. Class 39.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., to The May Department Stores Company, St. Louis, Mo. Brushless shaving cream. 300,725, renewed Feb. 7, 1953. O. G. May 19. Class 51.

Kellogg, R. R., Advertising Services, Inc., Los Angeles, Calif. Printed tags, tabs, and labels. 574,645, May 19; Serial No. 627,687, published Feb. 24, 1953. Class 38.

Kemart Corporation, San Francisco, Calif. Photographic papers. 574,585, May 19; Serial No. 620,259, published Jan. 13, 1953. Class 26.

Kent-Moore Organization, Inc., Detroit, Mich. Fluid pressure operated machine. 574,521, May 19; Serial No. 604,155, published Feb. 17, 1953. Class 23.

Keuffel & Esser Company, Hoboken, N. J. Measuring tapes. 574,691, May 19; Serial No. 630,600, published Jan. 6, 1953. Class 20.

Klok Craftsman Guild: *See*—
Klok, John H.

Klok, John H., doing business as an individual under the name and style of Klok Craftsman Guild, Grand Rapids, Mich. Articles of furniture. 574,627, May 19; Serial No. 624,689, published Mar. 3, 1953. Class 32.

Koppers Company, Inc., Pittsburgh, Pa. Joint sealing compounds. 574,778, May 19; Serial No. 637,315, published Mar. 3, 1953. Class 12.

Kress, S. H., and Company, New York, N. Y. Braids and binding and finishing tapes. 574,638, May 19; Serial No. 626,433, published Jan. 20, 1953. Class 40.

Lacroix, Henri, Gimont, France. Pâté de foie gras, canned truffles, minced canned goose, etc. 574,477, May 19; Serial No. 553,201, published Feb. 10, 1953. Class 46.

Lambert Company, The, Jersey City, N. J., and Northampton, Mass. by merger of Pro-Phy-Lac-Tic Brush Company. Tooth brushes. 574,547, May 19; Serial No. 614,062, published Feb. 24, 1953. Class 29.

La Peer Products Co.: *See*—
Mayehoff, Mordecai N.

Lebow Bros., Inc., Baltimore, Md. Men's suits, topcoats and overcoats. 574,665, May 19; Serial No. 629,208, published Feb. 3, 1953. Class 39.

Lektrolite Corporation, New York, N. Y. Cigarette case and lighter combination. 574,590, May 19; Serial No. 621,074, published Feb. 24, 1953. Class 8.

Lenderink & Co. N. V., Schiedam, Netherlands. Egg white substitutes (proteinaceous whipping agents). 574,602, May 19; Serial No. 622,338, published Feb. 24, 1953. Class 46.

Lewal Industries, Inc., assignor to Harnor Industries, Inc., New York, N. Y. Fluid for cleaning silver and other metals. 574,688, May 19; Serial No. 630,419, published Mar. 3, 1953. Class 52.

Lindemann, Maximo, Buenos Aires, Argentina. Stockings, gloves, slips, etc. 574,527, May 19; Serial No. 606,154, published Feb. 24, 1953. Class 39.

Lionel Corporation, The, New York, N. Y. Toy electric trains. 574,511, May 19; Serial No. 590,710, published Mar. 3, 1953. Class 22.

Loeser, Frederick, & Co., Inc., to Namm-Loeser's, Inc., Brooklyn, N. Y. Men's clothing. 304,921, renewed July 28, 1953. O. G. May 19. Class 39.

Lokey, Robert R., Jr., doing business as Variety Products, Los Angeles, Calif. Garment mending patches. 574,548, May 19; Serial No. 614,353, published Jan. 13, 1953. Class 40.

Lowell Manufacturing Company: *See*—
Lowell Specialty Company.

Lowell Specialty Company, also doing business under the name Lowell Manufacturing Company, Chicago, Ill. Hand-operated compression dusters. 574,628, May 19; Serial No. 624,749, published Feb. 17, 1953. Class 23.

Lyons, Claude L., London, England. Ordinary playing cards and games played with playing cards. 574,560, May 19; Serial No. 617,448, published Feb. 24, 1953. Class 22.

Macon Shirt Company, Macon, Ga. Men's sport and dress shirts. 574,711, May 19; Serial No. 632,093, published Feb. 3, 1953. Class 39.

Manhattan Kreole Products, Inc., Brooklyn, N. Y. Polishes, dressings, and cleaning preparations. 301,524, renewed Mar. 7, 1953. O. G. May 19. Class 4.

Manhattan Kreole Products, Inc., Brooklyn, N. Y. Polishes, dressings, and cleaning preparations. 303,445, renewed May 23, 1953. O. G. May 19. Class 4.

Manhattan Novelty Corporation, New York, N. Y. Binoculars. 574,584, May 19; Serial No. 620,221, published Jan. 6, 1953. Class 26.

Mann, Earle H.: *See*—
Vick, Lester J., and Earle H. Mann.

Massachusetts Mattress Company, Boston, Mass. Sofa beds and studio couches. 574,599, May 19; Serial No. 622,160, published Feb. 24, 1953. Class 32.

Matthews, W. N., Corporation, St. Louis, Mo. Thermostatic electric-relay switches. 574,660, May 19; Serial No. 629,030, published Jan. 6, 1953. Class 26.

May Department Stores Company, New York, N. Y. Hosiery. 253,957, Mar. 12, 1929. Cancelled Apr. 19, 1953. O. G. May 19. Class 39.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

May Department Stores Company, The, St. Louis, Mo. Men's ties. 301,322, renewed Feb. 28, 1953. O. G. May 19. Class 39.

Mayehoff, Mordecai N., doing business as La Peer Products Co., Los Angeles, Calif. Material in the form of a cream or paste for use as cleansers and polishes. 574,512, May 19; Serial No. 601,111, published Feb. 24, 1953. Class 51.

McClure, Helen S., New York, N. Y. Pads for removing nail polish. 574,777, May 19; Serial No. 637,282, published Feb. 24, 1953. Class 29.

McCrae, Carrie, trading as Essie Mae, Elizabeth, N. J. Hand lotion, a hair cream, a hair pomade, etc. 574,673, May 19; Serial No. 629,806, published Feb. 24, 1953. Class 51.

McEwen, Denby & Hart-Briggs Limited, to Turret Grinding Wheel Company Limited, Sunbury-on-Thames, England. Abrasive preparations. 303,595, renewed May 30, 1953. O. G. May 19. Class 4.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazine. 574,729, May 19; Serial No. 633,161, published Feb. 17, 1953. Class 38.

Mead Specialties Company, Inc., Chicago, Ill. Pneumatically actuated clamps, pneumatic power cylinders, pneumatic work feeders, etc. 574,505, May 19; Serial No. 594,056, published Feb. 17, 1953. Class 23.

Melard Manufacturing Corporation, Long Island City, N. Y. Aerators for liquids. 574,668, May 19; Serial No. 629,500, published Feb. 17, 1953. Class 13.

Mendes, J. Curry, Corporation, Boston, Mass. Collating and tipping machines. 574,704, May 19; Serial No. 631,673, published Jan. 13, 1953. Class 23.

Mercantile Stores Company, Inc., Wilmington, Del. Electric household refrigerators. 574,721, May 19; Serial No. 632,812, published Jan. 27, 1953. Class 31.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Women's hats and hat bodies. 444,772, May 19; Serial No. 525,642, published Feb. 3, 1953. Class 39.

Metropolitan-Vickers Electrical Company Limited, London, England. Detecting, measuring, indicating and recording apparatus. 574,498, May 19; Serial No. 591,788, published Jan. 6, 1953. Class 26.

Metropolitan-Vickers Electrical Company Limited, London, England. Detecting, measuring, indicating and recording apparatus. 574,499, May 19; Serial No. 591,793, published Jan. 6, 1953. Class 26.

Miami Margarine Company, The, Cincinnati, Ohio. Margarine. 574,699, May 19; Serial No. 631,860, published Jan. 13, 1953. Class 46.

Michle, Andrew Y., & Sons, Inc., by Andrew Y. Michle & Sons Company, Philadelphia, Pa. Hair cloth interlining. 299,268, Nov. 29, 1932; republished May 19, 1953. Class 42.

Michle, Andrew Y., & Sons Company: *See*—
Michle, Andrew Y., & Sons, Inc.

Midwest Biscuit Company, Burlington, Iowa. Cookies, crackers, macaroni, etc. 574,730, May 19; Serial No. 633,206, published Feb. 24, 1953. Class 46.

Miller and Rhoads, Incorporated, Richmond, Va. Oilcloth, linoleum rugs, and flexible hard surface floor coverings. 574,610, May 19; Serial No. 623,103, published Mar. 3, 1953. Class 20.

Mine and Smelter Supply Company, The, Denver, Colo. Grinding mills. 574,516, May 19; Serial No. 602,207, published Jan. 20, 1953. Class 23.

Miron Mills, Inc., Clinton, Mass. Wool fabrics. 574,771, May 19; Serial No. 636,302, published Feb. 24, 1953. Class 42.

Morey La Rue Laundry Co., Elizabeth, Morristown, and Asbury Park, N. J., and Staten Island, N. Y., and Easton, Pa. Cleaning and treating blankets to render them moth repellent. 574,784, May 19; Serial No. 568,748, published Feb. 24, 1953. Class 103.

Morguloff, Alex, doing business as Hub Appliance Stores, Detroit, Mich. Electric domestic vacuum cleaners. 541,879, May 1, 1951; canceled Apr. 7, 1953. O. G. May 19. Class 21.

Motomco, Inc., New York, N. Y. Insecticides and rodenticides. 574,781, May 19; Serial No. 638,150, published Feb. 24, 1953. Class 6.

Mould-Teck Research Laboratories, Inc., New York, N. Y. Impression material and other related materials for use in dentistry. 574,607, May 19; Serial No. 622,949, published Feb. 24, 1953. Class 44.

Mu-Col Company, The, Providence, R. I., to The Mu-Col Company, Buffalo, N. Y. Antiseptic compounds. 40,479, re-renewed June 2, 1953. O. G. May 19. Class 18.

My-Locks Dolls, Mazama and Bremerton, Wash. Dolls. 574,710, May 19; Serial No. 631,995, published Mar. 3, 1953. Class 22.

Nalpak Knitting Mills, Inc., Brooklyn, N. Y. Misses', ladies', boys', and men's sweaters. 574,705, May 19; Serial No. 631,676, published Feb. 17, 1953. Class 39.

Namm-Loeser's, Inc.: *See*—
Loeser, Frederick, & Co., Inc.

National Association of Evangelicals, Chicago, Ill. Bimonthly religious magazines. 574,683, May 19; Serial No. 630,339, published Feb. 17, 1953. Class 38.

National Distillers Products Corporation, New York, N. Y. Insecticides. 574,762, May 19; Serial No. 635,193, published Mar. 3, 1953. Class 6.

National Variety Sales, Inc., assignor to Supurdisplay, Incorporated, Milwaukee, Wis. Buttered popcorn. 574,786, May 19; Serial No. 619,470, published Feb. 10, 1953. Class 46.

Naxon Utilities Corporation, Chicago, Ill. Electric wringers, hand-operated wringers, and electric washing machines. 574,739, May 19; Serial No. 633,464, published Feb. 24, 1953. Class 24.

Nelkin, Frances & Walter, Inc., New York, N. Y. Women's, misses', and girls' hats, scarves, gloves, etc. 574,515, May 19; Serial No. 601,834, published Feb. 3, 1953. Class 39.

Nestle Company, Inc., The, White Plains, N. Y. Milk chocolate. 574,802, May 19; Serial No. 637,320. Class 46.

Nestler, Richard J., doing business as Unrivaled Hosiery Mill, New York, N. Y. Anklets. 574,643, May 19; Serial No. 627,637, published Nov. 11, 1952. Class 39.

Nocona Leather Goods Company, Nocona, Tex. Leather goods. 303,238, renewed May 16, 1953. O. G. May 19. Class 3.

Northrup, King & Co., Minneapolis, Minn. Alfalfa seed. 574,667, May 19; Serial No. 629,455, published Feb. 17, 1953. Class 1.

Northwest Warehousing Co.: *See*—
Joannes Brothers Company.

Norton, John, Co.: *See*—
Norton, John J.

Norton, John J., doing business under the firm name and style of John Norton Co., New York, N. Y. Horse racing game. 574,740, May 19; Serial No. 633,505, published Feb. 24, 1953. Class 22.

Oberman Fabrics, Inc., New York, N. Y. Piece goods. 574,684, May 19; Serial No. 630,345, published Mar. 3, 1953. Class 42.

Olin Industries, Inc., East Alton, Ill. Cuff links and buttons. 574,632, May 19; Serial No. 625,289, published Dec. 30, 1952. Class 40.

Olin Industries, Inc., East Alton, Ill. Cigar and cigarette lighters. 574,634, May 19; Serial No. 625,367, published Feb. 24, 1953. Class 8.

Pabst Brewing Company: *See*—
Premier Malt Products Co.

Pabst Brewing Company, Chicago, Ill. Mixture of dried bacitracin broth and soya bean flour or ground malt sprouts. 574,640, May 19; Serial No. 626,637, published Feb. 17, 1953. Class 46.

Packard Motor Car Company, Detroit, Mich. Fabric cleaner, cleaner for removing dirt and other foreign matter, metal cleaner, etc. 574,484, May 19; Serial No. 570,118, published Feb. 24, 1953.

Paddock Engineering Co., of Texas, Dallas, Tex. Swimming pools and bathing pools. 574,491, May 19; Serial No. 583,112, published Mar. 3, 1953. Class 12.

Paramount Canning Company, Haines City, Fla. Canned citrus fruit juice. 574,487, May 19; Serial No. 577,977, published Feb. 10, 1953. Class 46.

Parke, Davis & Company, Detroit, Mich. Cough syrup. 303,635, renewed May 30, 1953. O. G. May 19. Class 18.

Patek Brothers, Inc., Milwaukee, Wis. Interior and exterior paints, calcimines, paint and baking enamels, etc. 574,482, May 19; Serial No. 563,809, published Feb. 24, 1953. Class 16.

Penick, S. B., & Company, New York, N. Y. Bulk perfume compounds. 574,677–8, May 19; Serial Nos. 630,207–8, published Feb. 24, 1953. Class 6.

Pennsylvania Industrial Chemical Corporation, Clairton, Pa. Synthetic resins. 574,696, May 19; Serial No. 631,174, published Feb. 24, 1953. Class 6.

Pennsylvania Salt Manufacturing Company, The, assignee. *See*—
Sharples Chemicals Inc.

Perfection Mattress & Spring Company, Birmingham, Ala. Bed springs and mattresses. 435,625, Jan. 6, 1948; republished May 19, 1953. Class 32.

Persylma Co.: *See*—
Gethner, Max M.

Pfluger, Clifford W., New York, N. Y., to Clifford Wm. Pfluger, Teaneck, N. J. Printed mutuel racing charts. 304,045, renewed June 20, 1953. O. G. May 19. Class 38.

Pfluger, Clifford Wm. *See*—
Pfluger, Clifford W.

Phillips-Jones Corporation, New York, N. Y. Men's and boys' dress, sport and work clothing and parts thereof. 574,506, May 19; Serial No. 594,063, published Feb. 3, 1953. Class 39.

Phoenix Hosiery Company, Milwauke, Wis. Women's hosiery. 574,733, May 19; Serial No. 633,326, published Feb. 17, 1953. Class 39.

Photindis, F. J., trading and doing business under the name of Anphitrite Marine Company, Tokyo, Japan. Sail boats, ice boats, cruisers, etc. 574,537, May 19; Serial No. 611,311, published Feb. 24, 1953. Class 19.

Pinnacle Packing Company, Inc., Medford, Oreg. Fresh deciduous fruits. 300,881, Feb. 14, 1933; republished May 19, 1953. Class 46.

Plymouth Wallpaper Company, Inc., Baltimore, Md. Wall paper. 574,669, May 19; Serial No. 629,619, published Jan. 6, 1953. Class 37.

Pocket Books, Inc., New York, N. Y. Books. 574,514, May 19; Serial No. 601,748, published Feb. 17, 1953. Class 38.

Premier Malt Products Co., Peoria Heights, to Pabst Brewing Company, Chicago, Ill. Malt beverage. 300,435, renewed Jan. 17, 1953. O. G. May 19. Class 48.

Pressner, Samuel, doing business as American Brands Company, Richmond, Va. Household bleach. 574,747, May 19; Serial No. 633,871, published Feb. 24, 1953. Class 52.

Profitt Textile Company, Dalton, Ga. Chenille dusting and polishing mitt. 574,625, May 19; Serial No. 624,610, published Mar. 3, 1953. Class 29.

Pro-Phy-Lac-Tic Brush Company: *See*—
Lambert Company, The.

Publicker Commercial Alcohol Company, Philadelphia, Pa. Anti-freeze compounds. 303,311, May 23, 1933; corrected. O. G. May 19. Class 6.

Purdue Frederick Company, The, New York, N. Y. Therapeutic vaginal cream. 574,676, May 19; Serial No. 630,021, published Feb. 24, 1953. Class 18.

Purity Bakeries Corporation, Chicago, Ill. Bread. 574,522, May 19; Serial No. 604,596, published Feb. 10, 1953. Class 46.

Quaker Oats Company, The: *See*—
Davis Milling Company, The.

Quaker Oats Company, The: *See*—
Davis, R. T., Mill & Mfg. Co.

Quaker Oats Company, The, Chicago, Ill. Pancake flour. 301,069, renewed Feb. 14, 1953. O. G. May 19. Class 46.

Quaker Rubber Corporation, Philadelphia, Pa. Lawn hose. 574,774, May 19; Serial No. 637,000, published Mar. 3, 1953. Class 35.

Quaker Rubber Corporation, Philadelphia, Pa. Lawn hose. 574,775, May 19; Serial No. 637,085, published Mar. 3, 1953. Class 35.

Raffetto, G. B., Inc., New York, N. Y. Diced pineapples. 301,056, renewed Feb. 14, 1953. O. G. May 19. Class 46.

Rand McNally & Company, Chicago, Ill. Periodically appearing column in a house organ. 574,594, May 19; Serial No. 621,333, published Feb. 17, 1953. Class 38.

Rand Rubber Company, Inc., Brooklyn, N. Y. Baby pants. 574,650, May 19; Serial No. 628,123, published Feb. 17, 1953. Class 39.

Ransburg, Harper J., Co., Inc., Indianapolis, Ind. Housewares made of metal. 574,535, May 19; Serial No. 610,463, published Mar. 3, 1953. Class 13.

Rayflex Fabrics, Inc., New York, N. Y. Woven elastic fabrics. 574,694, May 19; Serial No. 630,792, published Feb. 24, 1953. Class 42.

Reader's Digest Association, Inc., The, Pleasantville, N. Y. Feature articles in a periodical. 574,661, May 19; Serial No. 629,055, published Feb. 17, 1953. Class 38.

Red Top Brewing Company: *See*—
Red Top Malt Company.

Red Top Malt Company, to Red Top Brewing Company, Cincinnati, Ohio. Malt beverage. 303,913, renewed June 13, 1953. O. G. May 19. Class 48.

Reed Roller Bit Company, Houston, Tex. Screw threads and threaded members. 574,489, May 19; Serial No. 579,294, published Feb. 17, 1953. Class 23.

Reid, Murdoch & Co., to Consolidated Grocers Corporation, Chicago, Ill. Confectionery. 302,652, renewed Apr. 25, 1953. O. G. May 19. Class 46.

Rice Growers Association of California, Sacramento, Calif. Rice. 574,635, May 19; Serial No. 625,492, published Feb. 24, 1953. Class 46.

Richman, Walter, Brooklyn, N. Y. Bottled marinated herring fillets. 574,578, May 19; Serial No. 619,168, published Feb. 10, 1953. Class 46.

Rich's Inc., Atlanta, Ga. Men's suits, outer shirts, ties, etc. 574,517, May 19; Serial No. 602,218, published Feb. 3, 1953. Class 39.

Ricker, Hiram, & Sons, Poland Spring, South Poland, to Hiram Ricker & Sons, Poland Spring, Maine. Mineral spring water. 301,277, renewed Feb. 21, 1953. O. G. May 19. Class 45.

Rilling Company, New York, N. Y., now by change of name The Rilling-Dermetics Company. Hair lacquer. 574,501, May 19; Serial No. 617,555, published Mar. 3, 1953. Class 51.

Rilling-Dermetics Company, The: *See*—
Rilling Company.

Robbin & Myer, Inc., Springfield, Ohio. Rotary pumps and compressors. 574,672, May 19; Serial No. 629,692, published Jan. 20, 1953. Class 23.

Robbins Textiles, Inc., High Point, N. C. Clothing. 574,656, May 19; Serial No. 628,878, published Feb. 17, 1953. Class 39.

Robin Hood Mills, Limited, Moose Jaw, Saskatchewan, Canada, by International Milling Company, Minneapolis, Minn. Wheat flour. 134,431, Aug. 31, 1920. Republished May 19. Class 46.

Robins, G. S., & Company, St. Louis, Mo. Deodorizing and disinfecting preparation. 280,303, Feb. 10, 1931. Republished May 19, 1953. Class 6.

Robinson, Wm. C., & Son Co., Baltimore, Md. Lubricating oil. 90,381, Feb. 18, 1913. Republished May 19. Class 15.

Robinson, Wm. C., & Son Co., Baltimore, Md. Cylinder-oil. 90,841, Mar. 25, 1913. Republished May 19. Class 15.

Roethlisberger & Fils, S. A.: *See*—
Roethlisberger & Sohn.

Roethlisberger & Sohn, to Roethlisberger & Sohn, A. G., also trading as Roethlisberger & Fils, S. A., Langnau, Switzerland. Cheese. 295,394, renewed June 28, 1952. O. G. May 19. Class 46.

Roethlisberger & Sohn, A. G.: *See*—
Roethlisberger & Sohn.

Rona Plastic Corp., New York, N. Y. Plastic canisters. 564,802, Sept. 30, 1952. Canceled Apr. 19, 1953. O. G. May 19. Class 2.

Rootie Kazootie, Inc., New York, N. Y. Lead pencils. 574,693, May 19; Serial No. 630,730, published Jan. 6, 1953. Class 37.

Rosenberg Bros. & Co., San Francisco, Calif., assignor to Rosenberg Bros. & Co., Inc., Baltimore, Md. Dried fruits. 574,475, May 19; Serial No. 536,294, published Feb. 10, 1953. Class 46.

Rosenberg Bros. & Co., Inc., assignee: *See*—
Rosenberg Bros. & Co.

Roto-Gate Valves, Inc., Plainview, Tex. Plug valves. 574,755, May 19; Serial No. 634,421, published Feb. 17, 1953. Class 13.

Royal Dalton, Ltd., St. Louis, Mo. Strainer type container. 574,622, May 19; Serial No. 624,301, published Mar. 3, 1953. Class 13.

Sachs, Maxwell, doing business under the name of Spring-O-Lator Mfg. Co., Boston, Mass. Sock-linings. 574,715, May 19; Serial No. 632,444, published Feb. 17, 1953. Class 39.

St. Regis Paper Company, New York, N. Y. Paper bags. 564,225, Sept. 16, 1952. Canceled Apr. 3, 1953. O. G. May 19. Class 2.

Samstag, L. Albert, Jr., New York, N. Y. General insurance brokerage. 574,804, May 19; Serial No. 633,329. Class 102.

Sanderson, William, & Son Limited, to William Sanderson & Son Limited, Leith, Scotland. Scotch whisky. 303,999, renewed June 13, 1953. O. G. May 19. Class 49.

San Fernando Heights Orange Association, San Fernando, Calif. Fresh citrus fruits. 574,759, May 19; Serial No. 634,992, published Feb. 24, 1953. Class 46.

Savage Arms Corporation: *See*—
Stevens, J., Arms & Tool Co.

Schafer, Joe, and Sons, Springfield, Ill. Chicken feeds and live-stock feeds. 574,503, May 19; Serial No. 593,447, published Feb. 10, 1953. Class 46.

Scherl & Roth, Inc., Cleveland, Ohio. Strings for the following stringed instruments: harps, guitars, violins, etc. 574,587, May 19; Serial No. 620,440, published Mar. 3, 1953. Class 36.

Schreter, A., & Sons, Inc., Baltimore, Md. Men's neckties. 574,724, May 19; Serial No. 633,000, published Feb. 10, 1953. Class 39.

Seaboard Seed Company, Philadelphia, Pa. Lawn seed. 574,623, May 19; Serial No. 624,367, published Feb. 17, 1953. Class 1.

Seal Rite Caulking Company, Inc., Detroit, Mich. Caulking compounds. 574,685, May 19; Serial No. 630,350, published Feb. 24, 1953. Class 12.

Sears, Roebuck and Co., Chicago, Ill. Men's and young men's trousers. 574,720, May 19; Serial No. 632,751, published Feb. 3, 1953. Class 39.

Sentinel Knitting Corporation, New York, N. Y. Man's supporting undergarment used for therapeutic purposes. 574,496, May 19; Serial No. 587,448, published Feb. 10, 1953. Class 44.

Settlement Cook Book Company, The, Milwaukee, Wis. Printed books. 301,862, renewed Mar. 21, 1953. O. G. May 19. Class 38.

Settlement Cook Book Company, The, Milwaukee, Wis. Printed books. 302,377, renewed Apr. 18, 1953. O. G. May 19. Class 38.

Sharples Chemicals Inc., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Plant response agents. 574,550, May 19; Serial No. 614,576, published Aug. 19, 1952. Class 6.

Sherman Bros. Shoe Mfg. Corp., Lowell, Mass. Infants' and children's shoes, sandals, and slippers. 574,652, May 19; Serial No. 628,433, published Feb. 17, 1953. Class 39.

Showcard Machine Company, Chicago, Ill. Sign printing machines. 574,728, May 19. Serial No. 633,083, published Feb. 17, 1953. Class 23.

Shriro Trading Corporation, New York, N. Y. Fabrics in the piece. 574,750, May 19; Serial No. 634,007, published Mar. 3, 1953. Class 42.

Sllorators Limited, London, England. Power-actuated agricultural machinery. 574,553, May 19; Serial No. 615,139, published Feb. 17, 1953. Class 23.

Simoniz Company: *See*—
Simoniz Company, The

Simoniz Company, The, Chicago, Ill., now by change of name Simonis Company. Liquid material, including wax. 574,532, May 19; Serial No. 608,957, published Apr. 29, 1952. Class 4.

Simpson, Wm., Sons & Co., Inc., Philadelphia, Pa. Permanent finish, wrinkle resistant, and soil resistant cotton piece goods. 574,618, May 19; Serial No. 623,855, published Mar. 3, 1953. Class 42.

Smith, Dallas, Corporation, Indianapolis, Ind. Chairs. 574,612, May 19; Serial No. 623,287, published Mar. 3, 1953. Class 32.

Smith Kline & French Laboratories, Philadelphia, Pa. Medicinal preparation. 301,527, renewed Mar. 7, 1953. O. G. May 19. Class 18.

Socăn Company, Limited, Kuala Lumpur, Malaya. Natural, synthetic, and reclaimed rubbers. 574,773. May 19; Serial No. 636,829, published Feb. 17, 1953. Class 1.

Societe Rhovyl, Paris, France. Threads. 574,518, May 19; Serial No. 602,794, published Jan. 27, 1953. Class 43.

Solvay & Cie., Brussels, Belgium. Soda ash and bicarbonate of soda, caustic soda, trichloroethylene, etc. 574,620, May 19; Serial No. 624,108, published Feb. 24, 1953. Class 6.

Sorensen & Company, Inc., Stamford, Conn. Regulators used for regulating the voltage and current derived from direct and alternating current sources. 574,799, May 19; Serial No. 631,503. Class 21.

South Bend Bait Company, South Bend, Ind. Artificial fishing lures. 574,790, May 19; Serial No. 598,614. Class 22.

Southern Coffee Mills, Ltd., to Blue Plate Foods, Inc., New Orleans, La. Roasted and ground coffee. 301,775, renewed Mar. 14, 1953. O. G. May 19. Class 46.

Spencer Chemical Company, Kansas City, Mo. Weed killer. 574,782, May 19; Serial No. 638,219, published Feb. 24, 1953. Class 6.

Spring-O-Lator Mfg. Co.: *See*—
Sachs, Maxwell.

Standard Company, The, by The Torrington Company, Torrington, Conn. Spokes and nipples of vehicles. 91,813, May 27, 1913; republished May 19, 1953. Class 19.

Stanley Works, The, New Britain, Conn. Wood screws. 574,801, May 19; Serial No. 636,441. Class 13.

Steel Products Engineering Company, The, Springfield, Ohio. Fuel pump units. 574,586, May 19; Serial No. 620,289, published Feb. 17, 1953. Class 23.

Stevens, J., Arms & Tool Co., Chicopee Falls, Mass., to Savage Arms Corporation, Utica, N. Y. Firearms. 91,391, re-renewed Apr. 29, 1953. O. G. May 19. Class 9.

Stevens, J. P., & Co., Inc., New York, N. Y. Sheets and pillow cases. 574,698. May 19; Serial No. 631,326, published Feb. 24, 1953. Class 42.

Stout, Charles B., doing business under the trade name Washington Flour Mill, Washington, Mo. Wheat shorts. 574,562. May 19; Serial No. 617,774, published Mar. 3, 1953. Class 46.

Stratoflex, Inc., Fort Worth, Tex. Metal hose fittings and couplings, and hose assemblies. 574,718, May 19; Serial No. 632,632, published Mar. 3, 1953. Class 13.

Stratoflex, Inc., Fort Worth, Tex. Metal hose fittings and couplings. 574,719, May 19; Serial No. 632,633, published Mar. 3, 1953. Class 13.

Stratoflex, Inc., Fort Worth, Tex. Metal hose fittings and couplings. 574,736, May 19; Serial No. 633,393, published Mar. 3, 1953. Class 13.

Stresen-Reuter, Fred'k A., Inc., Chicago, Ill. Synthetic resins; synthetic resin solutions; metallic soaps and salts. 574,757, May 19; Serial No. 634,928, published Mar. 3, 1953. Class 6.

Sun Rubber Company, The, Barberton, Ohio. Rubber finger pads. 574,701, May 19; Serial No. 631,445, published Jan. 13, 1953. Class 37.

Superior Laboratories Inc., Cleveland, Ohio. Powdered preparation for holding dental plates in position. 300,858, renewed Feb. 14, 1953. O. G. May 19. Class 51.

Supurdisplay, Incorporated, assignee: *See*—
National Variety Sales, Inc.

T. N. T. Tackle, Chicago, Ill. Artificial fish lures. 574,651, May 19; Serial No. 628,306, published Mar. 3, 1953. Class 22.

Talens & Son, Inc., Irvington, to Talens & Son, Inc., Newark, N. J. Drawing ink. 300,815, renewed Feb. 7, 1953. O. G. May 19. Class 11.

Talens & Son, Inc., Irvington, to Talens & Son, Inc., Newark, N. J. Retouching varnish, picture varnish, and painting medium to be mixed with paints. 301,796, renewed Mar. 14, 1953. O. G. May 19. Class 16.

Tested Appliance Company, Chicago, Ill. Filter. 574,486, May 19; Serial No. 577,409, published Feb. 24, 1953. Class 31.

Texasphaltic Company: *See*—
Welman, Warren, Jr.

Texas Quarries, Inc., Austin, Tex. Natural, quarried stone. 574,624, May 19; Serial No. 624,432, published Mar. 3, 1953. Class 12.

Theobald Industries, The, Kearny, N. J. Preparation for cleaning the hands. 574,528, May 19; Serial No. 606,825, published Feb. 24, 1953. Class 4.

Theonett & Co., Inc., Chicago, Ill. Malt beverages. 307,365, Oct. 24, 1933; corrected. O. G. May 19. Class 48.

Theonett & Co., Inc., Chicago, Ill. Champagnes and wines. 307,366, Oct. 24, 1933; corrected. O. G. May 19. Class 47.

Tie-Rite, New York, N. Y. Bow necktie. 574,655, May 19; Serial No. 628,832, published Feb. 3, 1953. Class 39.

"Tie-To" Insert Co.: *See*—
Danielson, Florence L.

Tileston and Hollingsworth Company, Boston, Mass. Printing paper. 574,533, May 19; Serial No. 609,513, published Sept. 25, 1951. Class 37.

Toldey Company, Gertrude A. Muller, Inc., The, Fort Wayne, Ind. Infants' disassembled furniture etc. 569,506, Jan. 20, 1953; corrected. O. G. May 19. Class 32.

Torrington Company, The: *See*—
Standard Company, The.

Traum, David, Company, Inc., New York, N. Y. Ironing press cloths. 574,791, May 19; Serial No. 621,430. Class 24.

Travenol Laboratories, Inc., Morton Grove, Ill. Synthetic thyroxine. 574,702, May 19; Serial No. 631,584, published Feb. 10, 1953. Class 18.

Trianco Limited, East Molesey, Surrey, England. Metal telescopic centering devices used in laying concrete floors or the like. 574,636, May 19; Serial No. 625,497, published Feb. 24, 1953. Class 12.

Truscon Laboratories, The, Detroit, Mich., to Devoe & Raynolds Company, Inc., New York, N. Y. Paste and liquid paints, paint enamels, varnishes, stains, etc. 302,328, renewed Apr. 11, 1953. O. G. May 19. Class 16.

Turret Grinding Wheel Company Limited: *See*—
McEwen, Denby, & Hart-Briggs Limited.

United Feature Syndicate, Inc., New York, N. Y. Comic drawings. 574,734, May 19; Serial No. 633,341, published Feb. 17, 1953. Class 38.

United States Gauge Company, New York, N. Y., by American Machine and Metals, Inc., Sellersville, Pa. Gauges. 299,298, Nov. 29, 1932; republished May 19, 1953. Class 26.

United States Rubber Company, New York, N. Y. Hose. 574,670, May 19; Serial No. 629,637, published Mar. 3, 1953. Class 35.

United States Rubber Company, New York, N. Y. Pneumatic tires and inner tubes. 574,767, May 19; Serial No. 635,795, published Feb. 24, 1953. Class 35.

United States Steel Company: *See*—
American Steel and Wire Company Of New Jersey, The.

Universal Atlas Cement Company: *See*—
Illinois Steel Company.

Unrivaled Hosiery Mill: *See*—
Nestler, Richard J.

Vallen, Inc., Akron, Ohio. Curtain track. 574,753, May 19; Serial No. 634,281, published Mar. 3, 1953. Class 13.

Vap-O-Glo Company, The, St. Helens, Oreg. All types of candles impregnated with ingredients useful in the treatment of nasal congestion. 574,666, May 19; Serial No. 629,222, published Feb. 10, 1953. Class 18.

Variety Products: *See*—
Lokey, Robert R., Jr.

Vick, Lester J., and Earle H. Mann., Amarillo, Tex. Solution for local anesthesia. 574,700, May 19; Serial No. 631,386, published Feb. 24, 1953. Class 18.

Vilter Manufacturing Company, The, Milwaukee, Wis. Refrigerating machines, air-coolers, etc. 574,524, May 19; Serial No. 605,126, published Feb. 24, 1953. Class 31.

Vludobona Importing Co.: *See*—
Zelinka, Hans.

Vitalic Battery Company, Inc., Dallas, Tex. Storage batteries and storage battery cases. 574,798, May 19; Serial No. 629,874. Class 21.

Viviano Foods, Inc., St. Louis, Mo. Prepared ready to eat canned foods. 444,397, Jan. 16, 1951; canceled Apr. 10, 1953. O. G. May 19. Class 46.

Waldes & Co., Prague-Wrschowitz, Austria-Hungary, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Snapbuttons. 92,151, re-renewed June 17, 1953. O. G. May 19. Class 40.

Waldes Koh-I-Noor, Inc.: *See*—
Waldes & Co.

Warner, C. D., Co., to Effie E. Warner, doing business as C. D. Warner Company, Coldwater, Mich. Liniment and for a remedy for coughs, colds, etc. 89,169, renewed Nov. 12, 1952. O. G. May 19. Class 18.

Warner, C. D., Company: *See*—
Warner, C. D., Co.

Warner, Effie E.: *See*—
Warner, C. D., Co.

Washington Flour Mill: *See*—
Stout, Charles B.

Waukesha Motor Company, Waukesha, Wis. Engine-compressor units for refrigeration systems, evaporator coolers, refrigerant compressors, etc. 574,536, May 19; Serial No. 610,934, published Feb. 3, 1953. Class 31.

Weber, Harriette B., Saginaw, Mich. Jackets made of muslin and similar material, for wrapping fowl and similar edibles when baking. 574,795, May 19; Serial No. 625,052. Class 50.

Wells Flour Milling Company, Wells, by International Milling Company, Minneapolis, Minn. Wheat flour. 61,916, Apr. 9, 1907; republished May 19, 1953. Class 46.

Wells Flour Milling Company, Wells, by International Milling Company, Minneapolis, Minn. Wheat flour. 150,166, Dec. 27, 1921; republished May 19, 1953. Class 46.

Welman, Warren, Jr., doing business as Texasphaltic Company, New Orleans, La. Waterproof plastic roof cement. 574,551, May 19; Serial No. 615,093, published Mar 3, 1953. Class 12.

West Virginia Pulp and Paper Company, New York, N. Y. Coated papers. 301,234, renewed Feb. 21, 1953. O. G. May 19. Class 37.

Western Auto Supply Company, Kansas City, Mo. Croquet sets. 574,648, May 19; Serial No. 627,914, published Mar. 3, 1953. Class 22.

Wheeling Corrugating Company, Wheeling, W. Va. Concrete reinforcing mesh. 571,343, Mar. 3, 1953; corrected. O. G. May 19. Class 12.

Whitehead Brothers Company, New York, N. Y. Core pastes and core binders. 574,531, May 19; Serial No. 608,392, published Feb. 24, 1953. Class 5.

Wilan, Robert C., Enterprises, Inc., Glendale, Calif. Hamburger sandwiches. 574,742, May 19; Serial No. 633,746, published Feb. 10, 1953. Class 40.

Williams, L. S., Centerville, Calif. Fresh vegetables. 574,513, May 19; Serial No. 601,180, published Feb. 10, 1953. Class 46.

Williams, R. C., & Company, Inc.: *See*—
Jaburg Brothers, Inc.

Wolf Outerwear Co. Inc., Boston, Mass. Cloth jackets, leather jackets, and sheepskin coats. 574,712, May 19; Serial No. 632,105, published Feb. 3, 1953. Class 39.

Zac-Lac Paint and Lacquer Company, Atlanta, Ga. Synthetic paint product. 574,800, May 19; Serial No. 634,821. Class 10.

Zelinka, Hans, doing business under the firm and style of Vindobona Importing Co., New York, N. Y. Trowels. 574,530, May 19; Serial No. 607,908, published Jan. 13, 1953. Class 23.

Z.-Huszár, Kálmán, Foster, Ohio. Sling shots. 574,606, May 19; Serial No. 622,940, published Feb. 24, 1953. Class 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chamois. Atlantic Sponge & Chamois Corporation. 574,637, May 19; Serial No. 625,571, published Feb. 17, 1953.

Lawn seed. Seaboard Seed Company. 574,623, May 19; Serial No. 624,367, published Feb. 17, 1953.

Leather. Hoffmann-Stafford Tanning Co. 574,732, May 19; Serial No. 633,262, published Feb. 17, 1953.

Natural, synthetic, and reclaimed rubbers. Socfin Company, Limited. 574,773, May 19; Serial No. 636,829, published Feb. 17, 1953.

Resin. Hercules Powder Company. 303,219, May 16, 1933. Republished May 19.

Seed, Alfalfa. Northrup, King & Co. 574,607, May 19; Serial No. 629,455, published Feb. 17, 1953.

CLASS 2

Bags, Paper. St. Regis Paper Company. 564,225, Sept. 16, 1952. Canceled Apr. 3, 1953. O. G. May 19.

Boxes, Large metal. Bar-Brook Manufacturing Co., Inc. 574,787, May 19; Serial No. 531,988.

Canisters, Plastic. Rona Plastic Corp. 564,802, Sept. 30, 1952. Canceled Apr. 10, 1953. O. G. May 19.

CLASS 3

Leather goods. Nocona Leather Goods Company. 303,238, renewed May 16, 1953. O. G. May 19.

CLASS 4

Abrasive preparations. McEwen, Denby & Hart-Briggs Limited. 303,595, renewed May 30, 1953. O. G. May 19.

Cleaning and polishing preparation. S. C. Johnson & Son, Inc. 574,770, May 19; Serial No. 636,234, published Mar. 3, 1953.

Liquid material including wax. The Simonis Company. 574,532, May 19; Serial No. 608,957, published Apr. 29, 1952.

Polish, Metal. The Cleanola Company. 574,539, May 19; Serial No. 611,640, published Mar. 3, 1953.

Polishes, dressings, and cleaning preparations. Manhattan Kreole Products, Inc. 301,524, renewed Mar. 7, 1953. O. G. May 19.

Polishes, dressings, and cleaning preparations. Manhattan Kreole Products, Inc. 303,445, renewed May 23, 1953. O. G. May 19.

Preparation for cleaning the hands. The Theobald Industries. 574,528, May 19; Serial No. 606,825, published Feb. 24, 1953.

CLASS 5

Adhesives. B-K Products. 574,608, May 19; Serial No. 622,981, published Feb. 24, 1953.

Core pastes and core binders. Whitehead Brothers Company. 574,531, May 19; Serial No. 608,392, published Feb. 24, 1953.

Glue and library and school paste. Birmingham Paper Company. 574,598, May 19; Serial No. 622,006, published Feb. 24, 1953.

CLASS 6

Anti-freeze compounds. Publicker Commercial Alcohol Company. 303,311, May 23, 1933. Corrected. O. G. May 19.

Bulk perfume compounds. S. B. Penick & Company. 574,677–8, May 19; Serial Nos. 630,207–8, published Feb. 24, 1953.

Chemical colors. Holland Color and Chemical Company. 574,706–7, May 19; Serial Nos. 631,738–9, published Feb. 24, 1953.

Deodorising and disinfecting preparation. G. S. Robins & Company. 280,303, Feb. 10, 1931. Republished May 19.

Disinfectants and germicides. Chem-Co., Inc. 574,713, May 19; Serial No. 632,292, published Mar. 3, 1953.

Dyestuffs. Farbenfabriken Bayer. 574,758, May 19; Serial No. 634,972, published Mar. 3, 1953.

Industrial arts solvents, General. Eastman Kodak Company. 574,783, May 19; Serial No. 638,410, published Feb. 24, 1953.

Insecticides. National Distillers Products Corporation. 574,762, May 19; Serial No. 635,193, published Mar. 3, 1953.

Insecticides and rodenticides. Motomco, Inc. 574,781, May 19; Serial No. 638,150, published Feb. 24, 1953.

Metal carbides, particularly calcium carbide. Dr. Alexander Warker Gesellschaft für Elektrochemische Industrie, G. m. b. H. 574,743, May 19; Serial No. 633,813, published Feb. 24, 1953.

Perchlorethylene, and solvent mixtures. Dr. Alexander Wacker Geselischaft für Elektrochemische Industrie, G. m. b. H. 574,744, May 19; Serial No. 633,816, published Feb. 24, 1953.

Plant response agents. Sharples Chemicals Inc. 574,550, May 19; Serial No. 614,576, published Aug. 19, 1952.

Polyvinyl alcohol. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H. 574,745, May 19; Serial No. 633,818, published Feb. 24, 1953.

Preparation for removing dust-attracting static electricity from records. Electro-Chemical Products Corp. 574,589, May 19; Serial No. 620,880, published Mar. 3, 1953.

Rodenticides. L. A. Henry. 574,609, May 19; Serial No. 623,052, published Feb. 24, 1953.

Soda ash and bicarbonate of soda, caustic soda, trichloroethylene, etc. Solvay & Cie. 574,620, May 19; Serial No. 624,108, published Feb. 24, 1953.

Stabilizers for polyvinyl resins. The Baker Castor Oil Company. 574,760, May 19; Serial No. 635,022, published Mar. 3, 1953.

Synthetic resins. Pennsylvania Industrial Chemical Corporation. 574,696, May 19; Serial No. 631,174, published Feb. 24, 1953.

Synthetic resins; synthetic resin solutions; metallic soaps and salts. Fred'k A. Stresen-Reuter, Inc. 574,757, May 19; Serial No. 634,928, published Mar. 3, 1953.

Weed killer. Spencer Chemical Company. 574,782, May 19; Serial No. 638,219, published Feb. 24, 1953.

CLASS 7

Cord or rope. The American Steel and Wire Company of New Jersey. 574,550, May 19; Serial No. 616,806, published July 1, 1952. (Consolidated certificate Classes 7 and 21.)

CLASS 8

Cigarette case and lighter combination. Lektrollte Corporation. 574,590, May 19; Serial No. 621,074, published Feb. 24, 1953.

Lighters and parts thereof, Cigarette and cigar. L. Batlin & Son, Inc. 574,714, May 19; Serial No. 632,352, published Feb. 24, 1953.

Lighters, Cigar and cigarette. Olin Industries, Inc. 574,634, May 19; Serial No. 625,367, published Feb. 24, 1953.

CLASS 9

Firearms. J. Stevens Arms & Tool Co. 91,391, re-renewed Apr. 29, 1953. O. G. May 19.

CLASS 11

Ink, Drawing. Talens & Son, Inc. 300,815, renewed Feb. 7, 1953. O. G. May 19.

CLASS 12

Bitumen used as insulating material, Ground, hard. American Gilsonite Company. 574,613, May 19; Serial No. 623,295, published Mar. 3, 1953.

Boards for the construction of walls. The Dean Company. 574,565, May 19; Serial No. 618,537, published Mar. 3, 1953.

Bricks, Metallized hand-made. Apjar Van Stolk Trading Corp. 574,601, May 19; Serial No. 622,320, published Mar. 3, 1953.

Caulking compounds. Seal Rite Caulking Company, Inc. 574,685, May 19; Serial No. 630,350, published Feb. 24, 1953.

Cement, Portland. Illinois Steel Company. 40,321, renewed May 12, 1953. O. G. May 19.

Cement, Waterproof plastic roof. W. Welman, Jr. 574,551, May 19; Serial No. 615,093, published Mar. 3, 1953.

Concrete reinforcing mesh. Wheeling Corrugating Company. 571,343, Mar. 3, 1953. Corrected. O. G. May 19.

Doors, Shower, dressing stalls, metal toilet compartments, etc. Flat Metal Manufacturing Company. 574,579, May 19; Serial No. 619,338, published Mar. 3, 1953.

Fence, Red cedar picket. Arnold-Dain Corporation. 574,485, May 19; Serial No. 575,391, published Mar. 3, 1953.

Joint sealing compounds. Koppers Company, Inc. 574,778, May 19; Serial No. 637,315, published Mar. 3, 1953.

Metal lath hanger. F. L. Danielson. 574,494, May 19; Serial No. 585,980, published Mar. 3, 1953.

Metal telescopic centering devices used in laying concrete floors or the like. Trianco Limited. 574,636, May 19; Serial No. 625,497, published Feb. 24, 1953.

Mortar, Blast furnace bonding. Harbison-Walker Refractories Company. 574,780, May 19; Serial No. 637,637, published Mar. 3, 1953.

Stone, Natural, quarried. Texas Quarries, Inc. 574,624, May 19; Serial No. 624,432, published Mar. 3, 1953.

Structural panel for walls and the like. Chrysler Corporation. 574,633, May 19; Serial No. 625,341, published Mar. 3, 1953.

Swimming pools and bathing pools. Paddock Engineering Co., of Texas. 574,491, May 19; Serial No. 583,112, published Mar. 3, 1953.

Thermal and acoustical material. Gustin-Bacon Manufacturing Company. 574,792, May 19; Serial No. 623,051.
Windows, Storm, and storm doors. Challenger Products, Inc. 574,768, May 19; Serial No. 635,871, published Mar. 3, 1953.
Windows, Storm, and storm window frames. Arlite Industries, Inc. 574,596, May 19; Serial No. 621,650, published Mar. 3, 1953.

CLASS 13

Aerators for liquids. Meiard-Manufacturing Corporation. 574,668, May 19; Serial No. 629,500, published Feb. 17, 1953.
Brackets and locking levers and locking bolts. Aktiebolaget Vibro-Verken. 574,738, May 19; Serial No. 633,441, published Feb. 17, 1953.
Curtain track. Vallen, Inc. 574,753, May 19; Serial No. 634,281, published Mar. 3, 1953.
Cylinder, pipe lines, and valves. Aquadyne Corporation. 574,559, May 19; Serial No. 617,273, published Feb. 17, 1953.
Handle sticks. Fruit Products Corporation. 574,746, May 19; Serial No. 633,843, published Feb. 17, 1953.
Hose fittings and couplings, Metal. Stratoflex, Inc. 574,719, May 19; Serial No. 632,633, published Mar. 3, 1953.
Hose fittings and couplings, Metal. Stratoflex, Inc. 574,736, May 19; Serial No. 633,393, published Mar. 3, 1953.
Hose fittings and couplings, Metal, and hose assemblies. Stratoflex, Inc. 574,718, May 19; Serial No. 632,632, published Mar. 3, 1953.
Housewares made of metal. Harper J. Ransburg Co., Inc. 574,535, May 19; Serial No. 610,463, published Mar. 3, 1953.
Key rings and key chains. Forstner Chain Corporation. 574,473, May 19; Serial No. 523,519, published Feb. 17, 1953.
Metal cooking ware. Genie-Craft Corporation. 574,641, May 19; Serial No. 627,181, published Feb. 17, 1953.
Metal fences. Federal Fence Manufacturing Company, Inc. 574,709, May 19; Serial No. 631,857, published Feb. 17, 1953.
Sash lifts, door stops and pulls, base knobs, etc. The Champion Hardware Company. 303,886, renewed June 13, 1953. O. G. May 19.
Strainer type container. Royal Dalton, Ltd. 574,622, May 19; Serial No. 624,301, published Mar. 3, 1953.
Valves, Plug. Roto-Gate Valves, Inc. 574,755, May 19; Serial No. 634,421, published Feb. 17, 1953.
Wood screws. The Stanley Works. 574,801, May 19; Serial No. 636,441.

CLASS 14

Font of type. Commercial Controls Corporation. 574,796–7, May 19; Serial Nos. 628,094–5.
Steel. The Carpenter Steel Company. 574,566–7, May 19; Serial Nos. 618,676–7, published Mar. 3, 1953.
Steel. The Carpenter Steel Company. 574,568–76, May 19; Serial Nos. 618,686–94, published Mar. 3, 1953.

CLASS 15

Cylinder-oil. Wm. C. Robinson & Son Co. 90,841, Mar. 25, 1913. Republished May 19.
Fuel additive. Elraco Engineering Company. 574,603, May 19; Serial No. 622,383, published Aug. 5, 1952.
Gasoline, kerosene, domestic fuel oils, etc. The El Dorado Refining Company. 574,708, May 19; Serial No. 631,792, published Nov. 11, 1952.
Oil, Lubricating. Wm. C. Robinson & Son Co. 90,381, Feb. 18, 1913. Republished May 19, 1953.

CLASS 16

Paint Product, Synthetic. Zac-Lac Paint and Lacquer Company. 574,800, May 19; Serial No. 634,821.
Paints, Interior and exterior, calcimines, paint and baking enamels, etc. Patek Brothers, Inc. 574,482, May 19; Serial No. 583,869, published Feb. 24, 1953.
Paints, Paste and liquids, paint enamels, varnishes, stains, etc. The Truscon Laboratories. 302,328, renewed Apr. 11, 1953. O. G. May 19.
Paints, Ready-mixed. E. I. du Pont, de Nemours & Company. 126,670, Sept. 30, 1919. Amended. O. G. May 19.
Varnish, Retouching, picture varnish, and painting medium to be mixed with paints. Talens & Son, Inc. 301,796, renewed Mar. 14, 1953. O. G. May 19.

CLASS 18

Analgesic-sedative tablets. Charles C. Haskell & Co., Inc. 394,351, Mar. 31, 1942. Republished May 19.
Antiseptic compounds. The Mu-Col Company. 40,479, re-renewed June 2, 1953. O. G. May 19.
Candles impregnated with ingredients useful in the treatment of nasal congestion. All types of. The Vap-O-Glo Company. 574,666, May 19; Serial No. 629,222, published Feb. 10, 1953.
Cough syrup. Parke, Davis & Company. 303,635, renewed May 30, 1953. O. G. May 19.
Dermatological cream. Abbott Laboratories. 574,616, May 19; Serial No. 623,742, published Feb. 10, 1953.
Internal secretions to supply deficient secretions of the spleen, thyroid, etc. G. W. Carnrick Co. 92,635, re-renewed July 22, 1953. O. G. May 19.
Liniment and for a remedy for coughs, colds, etc. C. D. Warner Co. 89,169, re-renewed Nov. 12, 1952. O. G. May 19.
Medicinal ointment. M. M. Gethner. 574,588, May 19; Serial No. 620,499, published Feb. 10, 1953.
Medicinal preparation. Chicago Pharmacal Company. 574,674, May 19; Serial No. 629,885, published Feb. 10, 1953.
Medicinal preparation. Charles C. Haskell & Co., Inc. 381,004, Sept. 10, 1940. Republished May 19.
Medicinal preparation. Charles C. Haskell & Co., Inc. 385,199, Feb. 18, 1941. Republished May 19.
Medicinal preparation. Charles C. Haskell & Co., Inc. 412,011, Feb. 13, 1945. Republished May 19.
Medicinal preparation. Smith Kline & French Laboratories. 301,527, renewed Mar. 7, 1953. O. G. May 19.
Medicinal preparations. Charles C. Haskell & Co., Inc. 397,246, Aug. 25, 1942. Republished May 19.
Medicinal tablets. American Cyanamid Company. 574,546, May 19; Serial No. 613,962, published Feb. 10, 1953.
Ointment. Charles C. Haskell & Co., Inc. 394,374, Mar. 31, 1942. Republished May 19.
Pharmaceutical preparation, Antispasmodic-sedative. Charles C. Haskell & Co., Inc. 375,541, Feb. 20, 1940. Republished May 19.
Powder for treatment of epidermophyton, trichophyton, etc. A. B. Cohn. 300,592, renewed Jan. 24, 1953. O. G. May 19.
Preparation for the treatment of gastro-intestinal disturbance. Charles C. Haskell & Co., Inc. 370,965, Apr. 9, 1940. Republished May 19.
Preparation for thyroid administration. Charles C. Haskell & Co., Inc. 409,716, Oct. 17, 1944. Republished May 19.
Solution for local anesthesia. L. J. Vick and E. H. Mann. 574,700, May 19; Serial No. 631,380, published Feb. 24, 1953.
Synthetic thyroxine. Travenol Laboratories, Inc. 574,702, May 19; Serial No. 631,584, published Feb. 10, 1953.
Therapeutic vaginal cream. The Purdue Frederick Company. 574,676, May 19; Serial No. 630,021, published Feb. 24, 1953.

CLASS 19

Boats, Sail, ice boats, cruisers, etc. F. J. Photiadis. 574,537, May 19; Serial No. 611,331, published Feb. 24, 1953.
Spokes and nipples of vehicles. The Standard Company. 91,813, May 27, 1913. Republished May 19.
Truck trailers, bodies and parts thereof. Hobbs Manufacturing Company. 574,595, May 19; Serial No. 621,462, published Feb. 24, 1953.

CLASS 20

Oilcloth, linoleum rugs, and flexible hard surface floor coverings. Miller and Rhoads, Incorporated. 574,610, May 19; Serial No. 623,103, published Mar. 3, 1953.

CLASS 21

Batteries, Storage, and storage battery cases. Vitalic Battery Company, Inc. 574,708, May 19; Serial No. 629,874.
Electrical wire. The American Steel and Wire Company of New Jersey. 574,556, May 19; Serial No. 616,808, published Feb. 26, 1952. (Consolidated Certificate, Classes 7 and 21.)
Lamps, Gaseous discharge tubular. Claude Neon Electrical Products Corporation, Ltd. 301,512, renewed Mar. 7, 1953. O. G. May 19.
Regulators used for regulating the voltage and current derived from direct and alternating current sources. Sorensen & Company, Inc. 574,799, May 19; Serial No. 631,503.
Vacuum cleaners, Electric domestic. A. Morguloff. 541,879, May 1, 1951. Canceled Apr. 7, 1953. O. G. May 19.

CLASS 22

Balloons, Toy. Kagran Corporation. 574,671, May 19; Serial No. 629,674, published Mar. 3, 1953.
Croquet sets. Western Auto Supply Company. 574,648, May 19; Serial No. 627,914, published Mar. 3, 1953.
Dolls. My-Locks Dolls. 574,710, May 19; Serial No. 631,995, published Mar. 3, 1953.
Dolls, doll clothes, doll houses and furniture; etc. The Chad Valley Company Limited. 301,558, renewed Mar. 7, 1953. O. G. May 19.
Fish lures, Artificial. L. H. Henkel. 574,741, May 19; Serial No. 633,671, published Feb. 24, 1953.
Fish lures, Artificial. T. N. T. Tackle. 574,651, May 19; Serial No. 628,300, published Mar. 3, 1953.
Fishing lures, Artificial. South Bend Bait Company. 574,790, May 19; Serial No. 508,614.
Game, Horse racing. J. J. Norton. 574,740, May 19; Serial No. 633,505, published Feb. 24, 1953.
Golf balls and golf clubs. Burke Golf Equipment Corporation. 574,686, May 19; Serial No. 630,382, published Feb. 24, 1953.

Golf clubs, golf balls, golf bags, etc. Burke Golf Equipment Corporation. 574,646, May 19; Serial No. 627,803, published Feb. 24, 1953.
Golf clubs, golf balls, golf bags, etc. Burke Golf Equipment Corporation. 574,647, May 19; Serial No. 627,805, published Feb. 24, 1953.
Playing cards. E. R. Delber. 574,597, May 19; Serial No. 621,960, published Feb. 24, 1953.
Playing cards and games played with playing cards, Ordinary. C. L. Lyons. 574,560, May 19; Serial No. 617,448, published Feb. 24, 1953.
Sling shots. K. Z.-Huszár. 574,606, May 19; Serial No. 622,940, published Feb. 24, 1953.
Toy, Educational. Jim-Jon Toy Co. 574,617, May 19; Serial No. 623,768, published Mar. 3, 1953.
Toy electric trains. The Lionel Corporation. 574,511, May 19; Serial No. 599,710, published Mar. 3, 1953.

CLASS 23

Agricultural machinery, Power-actuated. Sliorators Limited. 574,553, May 19; Serial No. 615,139, published Feb. 17, 1953.
Carpet sweepers. The Associated Merchandising Corporation. 574,649, May 19; Serial No. 628,031, published Jan. 20, 1953.
Collating and tipping machines. J. C. Mendes. 574,704, May 19; Serial No. 631,673, published Jan. 13, 1953.
Compression dusters, Hand-operated. Lowell Specialty Company. 574,628, May 19; Serial No. 624,749, published Feb. 17, 1953.
Fluid pressure operated machine. Kent-Moore Organization, Inc. 574,521, May 19; Serial No. 604,155, published Feb. 17, 1953.
Grinding mills. The Mine and Smelter Supply Company. 574,516, May 19; Serial No. 602,207, published Jan. 20, 1953.
Hand and screw clamps and parts thereof; and for lathe dogs and parts thereof. Adjustable Clamp Company. 412,071, Mar. 20, 1945. Republished May 19, 1953.
High-speed cutter bits, blades and cutters. Armstrong Bros. Tool Co. 574,508, May 19; Serial No. 595,351, published Jan. 13, 1953.
Implements for simultaneously plowing, cultivating, and seeding and parts of such implements. Cockshutt Plow Company Limited. 301,077, renewed Mar. 7, 1953. O. G. May 19.
Knives and forks, Carving, shears, scissors, etc. Federated Department Stores, Inc. 574,654, May 19; Serial No. 628,752, published Feb. 17, 1953.
Machines for manufacturing concrete roofing tile. The W. E. Dunn Manufacturing Company. 574,540, May 19; Serial No. 612,597, published Jan. 13, 1953.
Pneumatically actuated clamps, pneumatic power cylinders, pneumatic work feeders, etc. Mead Specialties Company, Inc. 574,505, May 19; Serial No. 594,056, published Feb. 17, 1953.
Power operated typewriting means featuring an attachment or part, and final copy power operated typewriting machines, etc. Commercial Controls Corporation. 574,504, May 19; Serial No. 593,529, published Feb. 17, 1953.
Pump units, Fuel. The Steel Products Engineering Company. 574,586, May 19; Serial No. 620,289, published Feb. 17, 1953.
Pumps and compressors, Rotary. Robbins & Myers, Inc. 574,672, May 19; Serial No. 629,692, published Jan. 20, 1953.
Pumps, Hydraulic. Paul E. Hawkinson Company. 574,605, May 19; Serial No. 622,825, published Jan. 20, 1953.
Screw threads and threaded members. Reed Roller Bit Company. 574,489, May 19; Serial No. 579,294, published Feb. 17, 1953.
Separators having vane means. The V. D. Anderson Company. 574,615, May 19; Serial No. 623,496, published Feb. 17, 1953.
Sign printing machines. Showcard Machine Company. 574,728, May 19; Serial No. 633,083, published Feb. 17, 1953.
Spraying and dusting machines, Agricultural and horticultural. Food Machinery and Chemical Corporation. 574,488, May 19; Serial No. 578,925, published Jan. 20, 1953.
Trowels. H. Zelinka. 574,530, May 19; Serial No. 607,908, published Jan. 13, 1953.
Vegetable cutters (hand tools). Gibbons Bros. Rotary Company Limited. 574,614, May 19; Serial No. 623,413, published Jan. 20, 1953.

CLASS 24

Clothesline or laundry supporting equipment. W. L. Rodine. 574,611, May 19; Serial No. 623,179, published Feb. 24, 1953.
Ironing press cloths. David Traum Company, Inc. 574,791, May 19; Serial No. 621,430.
Wringers, Electric, hand-operated wringers, and electric washing machines. Naxon Utilities Corporation. 574,739, May 19; Serial No. 633,464, published Feb. 24, 1953.

CLASS 26

Apparatus comprising strain gauges and an electronic amplifier. Brown & Sharpe Manufacturing Company. 574,490, May 19; Serial No. 582,020, published Jan. 13, 1953.
Binoculars. Manhattan Novelty Corporation. 574,584, May 19; Serial No. 620,221, published Jan. 6, 1953.
Detecting, measuring, indicating, and recording apparatus. Metropolitan-Vickers Electrical Company Limited. 574,498, May 19; Serial No. 591,788, published Jan. 6, 1953.
Detecting, measuring, indicating, and recording apparatus. Metropolitan-Vickers Electrical Company Limited. 574,499, May 19; Serial No. 591,793, published Jan. 6, 1953.
Fluid pressure control instrument unit comprising automatic-manual selector valve with indicator, etc. Bailey Meter Company. 574,529, May 19; Serial No. 607,206, published Jan. 6, 1953.
Gauges. United States Gauge Company. 299,298, Nov. 29, 1932. Republished May 19.
Measuring tapes. Keuffel & Esser Company. 574,691, May 19; Serial No. 630,600, published Jan. 6, 1953.
Motion picture film, Unexposed. Fischer Film Laboratories. 574,543, May 19; Serial No. 613,220, published Jan. 6, 1953.
Photographic papers. Kemart Corporation. 574,585, May 19; Serial No. 620,259, published Jan. 13, 1953.
Photographic, photoengraving, and photomechanical appliances, apparatus, machines, and supplies. Chemco Photoproducts Company, Inc. 574,501, May 19; Serial No. 592,548, published Jan. 6, 1953.
Radiation sensitive element for measuring light, temperature, and humidity. Eastman Kodak Company. 574,089, May 19; Serial No. 630,529, published Jan. 6, 1953.
Thermostatic electric-relay switches. W. N. Matthews Corporation. 574,660, May 19; Serial No. 629,030, published Jan. 6, 1953.

CLASS 28

Jewelry, Costume. E. B. Holt. 574,794, May 19; Serial No. 624,832.

CLASS 29

Brushes, Paint. Golden State Brush Company. 574,680, May 19; Serial No. 630,264, published Feb. 24, 1953.
Brushes, Tooth. The Lambert Company. 574,547, May 19; Serial No. 614,062, published Feb. 24, 1953.
Chemical impregnated tacky cloth wipers. Bond Chemical Products Co. 574,510, May 19; Serial No. 597,659, published Sept. 2, 1952.
Dusting and polishing mitt, Chenille. Proffitt Textile Company. 574,625, May 19; Serial No. 624,610, published Mar. 3, 1953.
Pads for removing nail polish. H. S. McClure. 574,777, May 19; Serial No. 637,282, published Feb. 24, 1953.
Window-cleaning device, Portable and hand-operated. P. W. De Vore. 574,789, May 19; Serial No. 584,974.

CLASS 31

Engine-compressor units for refrigeration systems, evaporator coolers, refrigerant compressors, etc. Waukesha Motor Company. 574,536, May 19; Serial No. 610,934, published Feb. 3, 1953.
Filter. Tested Appliance Company. 574,486, May 19; Serial No. 577,409, published Feb. 24, 1953.
Filter plates, filter tubes, diffuser plates, etc. The Carborundum Company. 301,999, Mar. 21, 1933. Republished May 19.
Filters, Air. R. M. Carey. 574,502, May 19; Serial No. 593,161, published Feb. 24, 1953.
Filters, Dust. American Felt Company. 574,723, May 19; Serial No. 632,971, published Feb. 10, 1953.
Ice machine, Automatic. American Automatic Ice Machine Co. 574,500, May 19; Serial No. 592,242, published July 15, 1952.
Refrigerating machines, air-coolers, etc. The Vilter Manufacturing Company. 574,524, May 19; Serial No. 603,126, published Feb. 24, 1953.
Refrigerators, Electric household. Mercantile Stores Company, Inc. 574,721, May 19; Serial No. 632,812, published Jan. 27, 1953.

CLASS 32

Beds, Sofa, and studio couches. Massachusetts Mattress Company. 574,599, May 19; Serial No. 622,160, published Feb. 24, 1953.
Chairs. Dallas Smith Corporation. 574,612, May 19; Serial No. 623,287, published Mar. 3, 1953.
Furniture, Articles of. J. H. Klok. 574,627, May 19; Serial No. 624,689, published Mar. 3, 1953.
Furniture, Dining room. Drexel Furniture Company. 574,679, May 19; Serial No. 630,262, published Mar. 3, 1953.
Furniture, etc., Infants' disassembled. The Toidey Company, Gertrude A. Muller, Inc. 569,506, Jan. 20, 1953. Corrected. O. G. May 19.
Furniture, Living room, bedroom furniture, dining room furniture, etc. Irving Katz, Inc. 574,735, May 19; Serial No. 633,367, published Mar. 3, 1953.
Springs and mattresses, Bed. Perfection Mattress & Spring Company. 435,625, Jan. 6, 1948. Republished May 19.
Venetian blinds. Hunter Douglas Corporation. 574,687, May 19; Serial No. 630,414, published Jan. 20, 1953.

CLASS 35

Hose. United States Rubber Company. 574,670, May 19; Serial No. 629,637, published Mar. 3, 1953.
Hose, Lawn. Quaker Rubber Corporation. 574,774, May 19; Serial No. 637,000, published Mar. 3, 1953.
Hose, Lawn. Quaker Rubber Corporation. 574,775, May 19; Serial No. 637,085, published Mar. 3, 1953.
Packing, Rod and piston. Johns-Manville Corporation. 302,730, renewed Apr. 25, 1953. O. G. May 19.
Tires, Pneumatic, and inner tubes. United States Rubber Company. 574,767, May 19; Serial No. 635,795, published Feb. 24, 1953.

CLASS 36

Strings for the following stringed instruments: harps, guitars, violins, etc. Scherl & Roth, Inc. 574,587, May 19; Serial No. 620,440, published Mar. 3, 1953.

CLASS 37

Paper, Bond. Graham Paper Company. 304,772, renewed July 18, 1953. O. G. May 19.
Paper mats, Corrugated. Chippewa Paper Products Co. Inc. 574,644, May 19; Serial No. 627,674, published Jan. 6, 1953.
Paper napkins. Fort Howard Paper Company. 301,018, renewed Feb. 14, 1953. O. G. May 19.
Paper, Printing. Tileston and Hollingsworth Company. 574,533, May 19; Serial No. 609,513, published Sept. 25, 1951.
Paper, Toilet. Albany Perforated Wrapping Paper Company. 91,741, re-renewed May 27, 1953. O. G. May 19.
Paper, Wall. Plymouth Wallpaper Company, Inc. 574,660, May 19; Serial No. 629,619, published Jan. 6, 1953.
Paper, Writing and printing. P. H. Glatfelter Company. 304,137, renewed June 20, 1953. O. G. May 19.
Papers, Coated. West Virginia Pulp and Paper Company. 301,234, renewed Feb. 21, 1953. O. G. May 19.
Partially printed record books. M. J. De Vito. 574,540, May 19; Serial No. 614,494, published Jan. 13, 1953.
Pencils, Lead. Rootie Kazootie, Inc. 574,693, May 19; Serial No. 630,730, published Jan. 6, 1953.
Rubber finger pads. The Sun Rubber Company. 574,701, May 19; Serial No. 631,445, published Jan. 13, 1953.
Tablets and writing paper. Birmingham Paper Company. 245,303, Aug. 7, 1928. Republished May 19.

CLASS 38

Booklets. Jaynard Publishing Co., Inc. 574,695, May 19; Serial No. 630,936, published Feb. 17, 1953.
Books. Pocket Books, Inc. 574,514, May 19; Serial No. 601,748, published Feb. 17, 1953.
Books, Printed. The Settlement Cook Book Company. 301,862, renewed Mar. 21, 1953. O. G. May 19.
Books, Printed. The Settlement Cook Book Company. 302,377, renewed Apr. 18, 1953. O. G. May 19.
Calendars, Wall. J. A. Dalton. 574,697, May 19; Serial No. 631,204, published Feb. 17, 1953.
Column in a house organ, Periodically appearing. Rand McNally & Company. 574,594, May 19; Serial No. 621,333, published Feb. 17, 1953.
Comic drawings. United Features Syndicate, Inc. 574,734, May 19; Serial No. 633,341, published Feb. 17, 1953.
Feature articles in a periodical. The Reader's Digest Association, Inc. 574,661, May 19; Serial No. 629,055, published Feb. 17, 1953.
Magazine. McGraw-Hill Publishing Company, Inc. 574,729, May 19; Serial No. 633,101, published Feb. 17, 1953.
Magazines. Approved Comics, Inc. 574,657, May 19; Serial No. 628,905, published Feb. 17, 1953.
Magazines. Approved Comics, Inc. 574,658, May 19; Serial No. 628,911, published Feb. 17, 1953.
Magazines, Bi-monthly religious. National Association of Evangelicals. 574,683, May 19; Serial No. 630,339, published Feb. 17, 1953.
Periodical, Monthly. American Institute of Electrical Engineers. 574,748, May 19; Serial No. 633,954, published Feb. 24, 1953.
Printed mutuel racing charts. C. W. Pfluger. 304,045, renewed June 20, 1953. O. G. May 19.
Printed tags, tabs, and labels. R. R. Kellogg Advertising Services, Inc. 574,645, May 19; Serial No. 627,687, published Feb. 24, 1953.
Publications, Trade. American Colortype Company. 574,507, May 19; Serial No. 594,514, published Feb. 24, 1953.

CLASS 39

Anklets. R. J. Nestler. 574,643, May 19; Serial No. 627,637, published Nov. 11, 1952.
Blouses and jackets, Ladies' and misses'. Baroness Blouse, Inc. 574,642, May 19; Serial No. 627,243, published Feb. 24, 1953.
Brassières, girdles, corselets and foundation garments. Even-Pul Foundations, Inc. 574,554, May 19; Serial No. 616,372, published Feb. 10, 1952.
Clothing. Robbins Textiles, Inc. 574,656, May 19; Serial No. 628,878, published Feb. 17, 1953.
Clothing and parts thereof, Men's and boys' dress, sport and work. Phillips-Jones Corporation. 574,506, May 19; Serial No. 594,063, published Feb. 3, 1953.
Clothing, Men's. Frederick Loeser & Co., Inc. 304,921, renewed July 25, 1953. O. G. May 19.
Coats, capes, scarfs, etc., Fur. Indiana Fur Co., Inc. 574,480, May 19; Serial No. 560,624, published Feb. 10, 1953.
Coats, Fur, fur jackets, fur capes, etc. Benioffs Furs. 574,497, May 19; Serial No. 588,470, published Feb. 10, 1953.
Fur apparel, Women's. Katzman & Ware, Inc. 574,558, May 19; Serial No. 617,200, published Feb. 17, 1953.
Hats. The Haverfield Company. 574,483, May 19; Serial No. 567,781, published Feb. 3, 1953.
Hats and hat bodies, Women's. Merrimac Hat Corporation. 444,772, May 19; Serial No. 525,642, published Feb. 3, 1953.
Hats, scarves, gloves, etc., Women's, misses', and girls'. Frances & Walter Nelkin, Inc. 574,515, May 19; Serial No. 601,834, published Feb. 3, 1953.
Hosiery. Bacon-Scott Co., Inc. 574,662, May 19; Serial No. 629,084, published Feb. 17, 1953.
Hosiery. Gotham Silk Mfg. Co. 91,959, re-renewed June 10, 1953. O. G. May 19.
Hosiery. May Department Stores Company. 253,957, Mar. 12, 1929. Canceled Apr. 10, 1953. O. G. May 19.
Hosiery, Ladies'. Chadbourn Hosiery Mills, Incorporated. 574,731, May 19; Serial No. 633,256, published Feb. 17, 1953.
Hosiery, Women's. Phoenix Hosiery Company. 574,733, May 19; Serial No. 633,326, published Feb. 17, 1953.
Jackets, Cloth, leather jackets, and sheepskin coats. Wolf Outerwear Co. Inc. 574,712, May 19; Serial No. 632,105, published Feb. 3, 1953.
Jackets, Men's and women's leather. Caljax Incorporated. 574,690, May 19; Serial No. 630,576, published Feb. 3, 1953.
Neckties. Cavalier Cravat Company. 574,725–6, May 19; Serial Nos. 633,034–5, published Feb. 10, 1953.
Neckties, Bow. Tie-Rite. 574,655, May 19; Serial No. 628,832, published Feb. 3, 1953.
Neckties, Men's. A. Schreter & Sons, Inc. 574,724, May 19; Serial No. 633,000, published Feb. 10, 1953.
Neckties, sport shirts, basque shirts, Men's and boys'. Allied Knitting Mills. 574,564, May 19; Serial No. 618,278, published Feb. 17, 1953.
Nightgowns, petticoats, slips, etc., Ladies' and misses'. Juliana Lingerie, Inc. 574,717, May 19; Serial No. 632,566, published Feb. 17, 1953.
Panties, Infants' waterproof, and for infants' play suits. Birdy Products Corp. 574,503, May 19; Serial No. 621,303, published May 27, 1952.
Pants, Baby. Rand Rubber Company, Inc. 574,650, May 19; Serial No. 628,123, published Feb. 17, 1953.
Scarves, Ladies' and men's. Amerex Trading Corporation. 574,675, May 19; Serial No. 629,981, published Feb. 3, 1953.
Shirts. Jets Inc. 574,659, May 19; Serial No. 629,026, published Feb. 3, 1953.
Shirts, Men's and boys' sport. Cal-Sun, Inc. 574,722, May 19; Serial No. 632,872, published Feb. 10, 1953.
Shirts, Men's sport and dress. Macon Shirt Company. 574,711, May 19; Serial No. 632,093, published Feb. 3, 1953.
Shoes, sandals, and slippers, Infants' and children's. Sherman Bros. Shoe Mfg. Corp. 574,652, May 19; Serial No. 628,433, published Feb. 17, 1953.
Sock-linings. M. Sachs. 574,715, May 19; Serial No. 632,444, published Feb. 17, 1953.
Stockings, gloves, slips, etc. M. Lindemann. 574,527, May 19; Serial No. 606,154, published Feb. 24, 1953.
Suits, outer shirts, ties, etc., Men's. Rich's Inc. 574,517, May 19; Serial No. 602,218, published Feb. 3, 1953.
Suits, topcoats and overcoats, Men's. Lebow Bros., Inc. 574,665, May 19; Serial No. 629,208, published Feb. 3, 1953.
Sweaters, Men's, women's, boys' and girls'. Ballantyne of Peebles, Inc. 574,692, May 19; Serial No. 630,695, published Feb. 17, 1953.
Sweaters, Misses', ladies', boys', and men's. Nalpak Knitting Mills, Inc. 574,705, May 19; Serial No. 631,676, published Feb. 17, 1953.
Ties, Men's. May Department Stores Company, The. 301,322, renewed Feb. 28, 1953. O. G. May 19.
Trousers, Men's and young men's. Sears, Roebuck and Co. 574,720, May 19; Serial No. 632,751, published Feb. 3, 1953.
Wearing apparel. Best & Co. Inc. 574,538, May 19; Serial No. 611,500, published Feb. 24, 1953.

CLASS 40

Braids and binding and finishing tapes. S. H. Kress and Company. 574,638, May 19; Serial No. 626,433, published Jan. 20, 1953.
Combs, Hard rubber. American Hard Rubber Company. 574,552, May 19; Serial No. 615,105, published Dec. 30, 1952.
Cuff links and buttons. Olin Industries, Inc. 574,632, May 19; Serial No. 625,289, published Dec. 30, 1952.
Mending patches, Garment. R. R. Lokey, Jr. 574,548, May 19; Serial No. 614,353, published Jan. 13, 1953.
Non-electric hair curlers. Ideal Curler Co. 574,019, May 19; Serial No. 623,891, published Dec. 30, 1952.

Snap-buttons. Waldes & Co. 92,151, re-renewed June 17, 1953. O. G. May 19.

CLASS 42

Blankets, Infant's. Anderson, Clayton & Co. 574,629–30, May 19; Serial Nos. 625,238–9, published Feb. 24, 1953.
Blankets, Infant's. Anderson, Clayton & Co. 574,631, May 19; Serial No. 625,243, published Feb. 24, 1953.
Fabric, Textile. American Woolen Company. 574,756, May 19; Serial No. 634,677, published Mar. 3, 1953.
Fabric, Textile. Avila Fabcics, Inc. 574,682, May 19; Serial No. 630,304, published Feb. 24, 1953.
Fabrics. Joseph Bancroft & Sons Co. 574,544, May 19; Serial No. 613,394, published Feb. 24, 1953.
Fabrics, Denim. Cone Mills Inc. 574,763, May 19; Serial No. 635,406, published Mar. 3, 1953.
Fabrics in the piece. Shriro Trading Corporation. 574,750, May 19; Serial No. 634,007, published Mar. 3, 1953.
Fabrics, Textile. Burlington Mills Corporation. 574,751, May 19; Serial No. 634,234, published Mar. 3, 1953.
Fabrics, Wool. Miron Mills, Inc. 574,771, May 19; Serial No. 636,302, published Feb. 24, 1953.
Fabrics, Woolen and worsted. The House of Swansdown, Inc. 574,749, May 19; Serial No. 633,983, published Mar. 3, 1953.
Fabrics, Woven elastic. Rayflex Fabrics, Inc. 574,694, May 19; Serial No. 630,792, published Feb. 24, 1953.
Hair cloth interlining. Andrew Y. Michle & Sons, Inc. 209,268, Nov. 29, 1932; republished May 19, 1953.
Netting. Drummondville Cotton Company, Limited. 574,519, May 19; Serial No. 603,715, published Mar. 3, 1953.
Netting. Drummondville Cotton Company, Limited. 574,523, May 19; Serial No. 604,958, published Mar. 3, 1953.
Piece goods. Oberman Fabrics, Inc. 574,684, May 19; Serial No. 630,345, published Mar. 3, 1953.
Piece goods, Flannel. Cone Mills Inc. 574,769, May 19; Serial No. 635,956, published Mar. 3, 1953.
Piece goods, Permanent finish, wrinkle resistant, and soil resistant cotton. Wm. Simpson Sons & Co., Inc. 574,618, May 19; Serial No. 623,855, published Mar. 3, 1953.
Piece goods, Textile. American Silk Mills, Inc. 574,716, May 19; Serial No. 632,546, published Mar. 3, 1953.
Piece goods, Textile. Ely & Walker Dry Goods Company. 574,772, May 19; Serial No. 636,353, published Mar. 3, 1953.
Pillow slips. A. W. Fountain. 574,761, May 19; Serial No. 635,179, published Mar. 3, 1953.
Rugs, Woven pile. Belrug Mills of South Carolina. 574,703, May 19; Serial No. 631,599, published Feb. 10, 1953.
Sheets and pillow cases. J. P. Stevens & Co., Inc. 574,698, May 19; Serial No. 631,326, published Feb. 24, 1953.
Sheets, Bed, crib sheets and pillow cases. Chicopee Mills, Inc. 574,621, May 19; Serial No. 624,225, published Mar. 3, 1953.
Sheets, pillowcases, textile rugs, etc. William Hollins & Company Limited. 574,542, May 19; Serial No. 612,913, published Feb. 24, 1953.

CLASS 43

Threads. Societe Rhovyl. 574,518, May 19; Serial No. 602,794, published Jan. 27, 1953.
Yarns. Carter & Parker Limited. 303,627, renewed May 30, 1953. O. G. May 19.
Yarns, Novelty synthetic. Beaunit Mills, Inc. 574,776, May 19; Serial No. 637,163, published Feb. 24, 1953.

CLASS 44

Corrective weight distributing inserts for use in shoes. D. W. Austin. 574,664, May 19; Serial No. 629,188, published Feb. 10, 1953.
Impression material and other related materials for use in dentistry. Mould-Teck Research Laboratories, Inc. 574,607, May 19; Serial No. 622,049, published Feb. 24, 1953.
Prophylactic rubber articles. Dean Rubber Manufacturing Co. 574,639, May 19; Serial No. 626,562, published Feb. 3, 1953.
Supporting undergarment used for therapeutic purposes, Man's. Sentinel Knitting Corporation. 574,496, May 19; Serial No. 587,448, published Feb. 10, 1953.
Suspensory. Donovan Enterprises. 574,580, May 19; Serial No. 620,025, published Feb. 24, 1953.
Suspensory. Donovan Enterprises. 574,581–2, May 19; Serial No. 620,026–7, published Mar. 3, 1953.
Suspensory. Donovan Enterprises. 574,583, May 19; Serial No. 620,029, published Mar. 3, 1953.
Therapeutic steam packs. Chattanooga Pharmacal Co., Inc. 574,604, May 19; Serial No. 622,428, published Feb. 24, 1953.

CLASS 45

Mineral spring water. Hiram Ricker & Sons. 301,277, renewed Feb. 21, 1953. O. G. May 19.

CLASS 46

Acetic acid, citric acid, tartaric acid, etc. Jaburg Brothers, Inc. 302,967, renewed May 2, 1953. O. G. May 19.
Alimentary paste, butter, candies, etc. Jaburg Brothers, Inc. 304,005, renewed June 13, 1953. O. G. May 19.
Alimentary paste, butter, candies, etc. Jaburg Brothers, Inc. 304,660, renewed July 11, 1953. O. G. May 19.
Barley malt, Commercial. The Columbia Malting Company. 574,526, May 19; Serial No. 605,995, published Mar. 3, 1953.
Biscuits. The Borden Company. 574,563, May 19; Serial No. 617,979, published Feb. 17, 1953.
Bread. Bakers Associates Incorporated. 574,479, May 19; Serial No. 558,341, published Feb. 24, 1953.
Bread. Purity Bakeries Corporation. 574,522, May 19; Serial No. 604,596, published Feb. 10, 1953.
Candy, chocolates and cocoa. Europa Sales Corporation. 301,376, Feb. 28, 1933. Republished May 19.
Candy. J. M. Glidding. 574,545, May 19; Serial No. 613,910, published Feb. 24, 1953.
Canned asparagus, green beans, wax beans, corn, etc. Joannes Brothers Company. 574,474, May 19; Serial No. 532,459, published Mar. 27, 1951.
Canned citrus fruit juice. Paramount Canning Company. 574,487, May 19; Serial No. 577,977, published Feb. 10, 1953.
Canned corned beef, canned corned tongue, canned corned pork, etc. Corporacion Argentina de Productores de Carnes. 574,541, May 19; Serial No. 612,641, published Feb. 24, 1953.
Canned foods, Prepared ready to eat. Viviano Foods, Inc. 444,397, Jan. 16, 1951. Canceled Apr. 10, 1953. O. G. May 19.
Canned fruits and vegetables. I. N. Dovel Co., Inc. 574,754, May 19; Serial No. 634,309, published Feb. 24, 1953.
Canned fruits, canned vegetables, and canned olives. Hemet Packing Company. 574,478, May 19; Serial No. 554,978, published Feb. 10, 1953.
Cereal foods, Specially prepared. Gerber Products Company. 574,509, May 19; Serial No. 596,090, published Feb. 3, 1953.
Cereals. Gerber Products Company. 574,727, May 19; Serial No. 633,054, published Feb. 10, 1953.
Cheese. Albertus, A/S S. E. 574,764–5, May 19; Serial Nos. 635,625–6, published Feb. 24, 1953.
Cheese. C. J. Berst & Co. 574,663, May 19; Serial No. 629,148, published Feb. 24, 1953.
Cheese. Fisher Dairy and Cheese Company. 574,788, May 19; Serial No. 546,210.
Cheese. Roethlisberger & Sohn. 295,394, renewed June 28, 1952. O. G. May 19.
Chewing gum. American Chewing Products Corp. 574,681, May 19; Serial No. 630,301, published Feb. 10, 1953.
Chewing gum. H. Glocckler Associates, Inc. 574,577, May 19; Serial No. 618,926, published Feb. 24, 1953.
Coffee. J. A. Folger & Company. 92,545–7, re-renewed July 15, 1953. O. G. May 19.
Coffee, Roasted and ground. Southern Coffee Mills, Ltd. 301,775, renewed Mar. 14, 1953. O. G. May 19.
Confectionery. Reid, Murdoch & Co. 302,652, renewed Apr. 25, 1953. O. G. May 19.
Cookies, crackers, macaroni, etc. Midwest Biscuit Company. 574,730, May 19; Serial No. 633,206, published Feb. 24, 1953.
Dairy products. Carnation Company. 574,591, May 19; Serial No. 621,130, published Feb. 24, 1953.
Dough improver. The Kansas Milling Company. 574,766, May 19; Serial No. 635,099, published Mar. 3, 1953.
Egg mash. Hilltop Farm Feed Co. 574,525, May 19; Serial No. 605,743, published Feb. 24, 1953.
Egg white substitutes (proteinaceous whipping agents). Lenderink & Co. N. V. 574,602, May 19; Serial No. 622,338, published Feb. 24, 1953.
Feed, Enriched hog. Central Soya Company, Inc. 574,592, May 19; Serial No. 621,200, published Feb. 24, 1953.
Feeds. Burrus Mills, Incorporated. 574,653, May 19; Serial No. 628,610, published Feb. 17, 1953.
Feeds, Chicken, and live-stock feeds. Joe Schafer and Sons. 574,503, May 19; Serial No. 593,447, published Feb. 10, 1953.
Flour, Pancake. The Quaker Oats Company. 301,066, renewed Feb. 14, 1953. O. G. May 19.
Flour, Wheat. The Commercial Milling Co. 108,390, Feb. 8, 1916. Republished May 19.
Flour, Wheat. Commercial Milling Company. 361,151, Oct. 11, 1938. Republished May 19.
Flour, Wheat. Fisher Flouring Mills Company. 303,709, renewed June 6, 1953. O. G. May 19.
Flour, Wheat. International Milling Company. 402,028, June 22, 1943. Republished May 19.
Flour, Wheat. Robin Hood Mills, Limited. 134,431, Aug. 31, 1920. Republished May 19.
Flour, Wheat. Wells Flour Milling Company. 61,916, Apr. 9, 1907. Republished May 19.
Flour, Wheat. Wells Flour Milling Company. 150,166, Dec. 27, 1921. Republished May 19.
Foods, R. B. Hawse. 574,520, May 19; Serial No. 603,787, published Feb. 10, 1953.
Foods, Canned, frozen foods. Clover Farm Stores Corporation. 574,481, May 19; Serial No. 562,766, published Feb. 17, 1953.
Fruits and vegetables, Conserved; fruit marmalades and jams, etc. Conserves Hero Lenzbourg. 574,752, May 19; Serial No. 634,241, published Feb. 24, 1953.

Fruits, Dried. Rosenberg Bros. & Co. 574,475, May 19; Serial No. 536,294, published Feb. 10, 1953.
Fruits, Fresh citrus. Exeter Orchards Association. 574,495, May 19; Serial No. 587,077, published Feb. 17, 1953.
Fruits, Fresh citrus. San Fernando Heights Orange Association. 574,759, May 19; Serial No. 634,992, published Feb. 24, 1953.
Fruits, Fresh deciduous. Pinnacle Packing Company, Inc. 300,881, Feb. 14, 1933. Republished May 19.
Grapes, Fresh. Richard Bagdasarian & Co. 574,737, May 19; Serial No. 633,408, published Feb. 24, 1953.
Hamburger sandwiches. Robert C. Wian Enterprises, Inc. 574,742, May 19; Serial No. 633,746, published Feb. 10, 1953.
Herring fillets, Bottled marinated. W. Richman. 574,578, May 19; Serial No. 619,168, published Feb. 10, 1953.
Margarine. The Miami Margarine Company. 574,609, May 19; Serial No. 631,360, published Jan. 13, 1953.
Marshmallows. Fireside Marshmallow Company. 574,557, May 19; Serial No. 616,952, published Feb. 10, 1953.
Meat. Cube Steak Machine Co. 574,785, May 19; Serial No. 535,688, published Feb. 10, 1953.
Milk chocolate. The Nestle Company, Inc. 574,802, May 19; Serial No. 637,320.
Mixture of dried bacitracin broth and soya bean flour or ground malt sprouts. Pabst Brewing Company. 574,640, May 19; Serial No. 626,637, published Feb. 17, 1953.
Pancake-flour. The Davis Milling Company. 90,516, renewed Mar. 4, 1953. O. G. May 19.
Pâté de foie gras, canned truffles, minced canned goose, etc. H. Lacroix. 574,477, May 19; Serial No. 553,201, published Feb. 10, 1953.
Peach jam, Imitation. Bliss Syrup & Preserving Co. 574,476, May 19; Serial No. 545,430, published Feb. 10, 1953.
Pineapples, Diced. G. B. Raffetto, Inc. 301,056, renewed Feb. 14, 1953. O. G. May 19.
Popcorn, Buttered. National Variety Sales, Inc. 574,786, May 19; Serial No. 619,470, published Feb. 10, 1953.
Rice. Rice Growers Association of California. 574,635, May 19; Serial No. 625,492, published Feb. 24, 1953.
Salad dressing. The Best Foods, Inc. 574,779, May 19; Serial No. 637,565, published Mar. 3, 1953.
Sauce. Hoe & Co. (1931) Limited. 574,472, May 19; Serial No. 506,873, published Feb. 10, 1953.
Vegetables, Fresh. L. S. Williams. 574,513, May 19; Serial No. 601,180, published Feb. 10, 1953.
Wheat-flake food, Prepared malted. R. T. Davis Mill & Mfg. Co. 40,006, re-renewed Mar. 31, 1953. O. G. May 19.
Wheat-flour. Fisher Flouring Mills Company. 90,183–6, re-renewed Feb. 11, 1953. O. G. May 19.
Wheat-flour. Fisher Flouring Mills Company. 90,316–17, re-renewed Feb. 18, 1953. O. G. May 19.
Wheat-flour. Fisher Flouring Mills Company. 90,977, renewed Apr. 8, 1953. O. G. May 19.
Wheat shorts. C. B. Stout. 574,562, May 19; Serial No. 617,774, published Mar. 3, 1953.

CLASS 47

Champagnes and wines. Theonett & Co., Inc. 307,366, Oct. 24, 1933. Corrected. O. G. May 19.

CLASS 48

Malt beverage. Premier Malt Products Co. 300,435, renewed Jan. 17, 1953. O. G. May 19.
Malt beverage. Red Top Malt Company. 303,913, renewed June 13, 1953. O. G. May 19.
Malt beverages. Theonett & Co., Inc. 307,365, Oct. 24, 1933. Corrected. O. G. May 19.

CLASS 49

Whisky. James Buchanan & Company Limited. 303,740, renewed June 6, 1953. O. G. May 19.
Whisky, Scotch. William Sanderson & Son Limited. 303,999, renewed June 13, 1953. O. G. May 19.

CLASS 50

Display assemblies, Portable demountable. The Displayers, Inc. 574,793, May 19; Serial No. 624,448.
Jackets made of muslin and similar material, for wrapping fowl and similar edibles when baking. H. B. Weber. 574,795, May 19; Serial No. 625,052.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. Hollywood, Inc. 294,740, renewed June 7, 1952. O. G. May 19.
Creme hair dressing. Gillette Safety Razor Company. 541,186, Apr. 17, 1951. Amended. O. G. May 19.
Face powders. J. V. Daniels. 87,859, Aug. 13, 1912. Republished May 19.
Hair creams, hair dressings and hair oils. John H. Breck, Inc. 574,493, May 19; Serial No. 584,965, published Feb. 24, 1953.
Hair lacquer. Rilling Company. 574,561, May 19; Serial No. 617,555, published Mar. 3, 1953.
Lotion, Hand, a hair cream, a hair pomade, etc. C. McCrae. 574,673, May 19; Serial No. 629,806, published Feb. 24, 1953.
Material in the form of a cream or paste for use as cleansers and polishes. M. N. Mayehoff. 574,512, May 19; Serial No. 601,111, published Feb. 24, 1953.
Powdered preparation for holding dental plates in position. Superior Laboratories Inc. 300,858, renewed Feb. 14, 1953. O. G. May 19.
Shaving cream, Brushless. Kaufmann Department Stores, Inc. 300,725, renewed Feb. 7, 1953. O. G. May 19.

CLASS 52

Bleach, Household. S. Pressaner. 574,747, May 19; Serial No. 633,871, published Feb. 24, 1953.
Chemical compound. Essential Chemicals Co. 574,626, May 19; Serial No. 624,681, published Feb. 24, 1953.
Cleaner, Fabric, cleaner for removing dirt and other foreign matter, metal cleaner, etc. Packard Motor Car Company. 574,484, May 19; Serial No. 570,118, published Feb. 24, 1953.
Cleaning composition and chemicals having cleansing properties. Jerclaydon, Inc. 574,600, May 19; Serial No. 622,302, published Feb. 24, 1953.
Detergent preparation. O-B Corporation. 550,313, Oct. 30, 1951. Canceled Apr. 3, 1953. O. G. May 19.
Detergent preparation, Liquid. The Du Bois Company. 574,555, May 19; Serial No. 616,596, published Feb. 24, 1953.
Fluid for cleaning silver and other metals. Lewal Industries, Inc. 574,688, May 19; Serial No. 630,419, published Mar. 3, 1953.
Soap, grease for soap-making, and a basic material—namely, tallow. Consolidated Rendering Company. 574,534, May 19; Serial No. 610,005, published Feb. 24, 1953.
Soap shampoos, baby skin soaps, etc. John H. Breck, Inc. 574,492, May 19; Serial No. 584,217, published Feb. 24, 1953.

CLASS 100

Diaper rental service. Gordon-Nick Linen Supply Company. 574,803, May 19; Serial No. 616,633.

CLASS 102

General insurance brokerage. L. A. Samatag, Jr. 574,804, May 19; Serial No. 633,329.

CLASS 103

Cleaning and treating blankets to render them moth repellent. Morey La Rue Laundry Co. 574,784, May 19; Serial No. 568,748, published Feb. 24, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bodine, Albert G., Jr., Van Nuys, Calif. Method of and apparatus for cutting materials. Re. 23,657, May 19.
Gaboury, Eugene, Van Dyke, Mich. Overhead conveyer trolley. Re. 23,658, May 19.
Metal Engineering Company, assignee: *See*—
Steine, George J.
Steine, George J., Glencoe, Ill., assignor to Metal Engineering Company. Holder for set screw wrenches and the like. Re. 23,659, May 19.

LIST OF PLANT PATENTEES

Conard-Pyle Company, The, assignee: *See*—
Meilland, Francis.
Tantau, Mathias.
Dailey, Roland W., San Jose, Calif. Camellia plant. 1,190, May 19.
Meilland, Francis, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 1,188, May 19.
Tantau, Mathias, Uetersen, Germany, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 1,189, May 19.

LIST OF DESIGN PATENTEES

Abrams, Nicholas, Los Angeles, assignor to Lee Products, Inc., Pasadena, Calif. Combined whisk broom and window wiper. 169,571, May 19.
Ament, Herman, New York, N. Y. Combination seam ripper and thread picker. 169,572, May 19.
American Greetings Corporation, assignee: *See*—
Zei, Joe, and Latimer.
American Optical Company, assignee: *See*—
Armbruster, John T.
Armbruster, John T., Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass. Cabinet. 169,573, May 19.
Austin Company, The, assignee: *See*—
Gannett, Joseph K., and Strasmyer.
Billig, Julius: *See*—
Norman, William Z., and Billig.
Blinor Corp., assignee: *See*—
Norman, William Z., and Billig.
Bordner, Lee T., Los Angeles, Calif. Switch escutcheon. 169,574, May 19.
Budlane, Stanley J., Palatine, and R. Dusek, Cicero, assignors to Dulane, Inc., River Grove, Ill. Electric deep fat frier. 169,575, May 19.
Budlane, Stanley J., Palatine, and R. Dusek, Cicero, assignors to Dulane, Inc., River Grove, Ill. Electric deep fat frier. 169,576, May 19.
Burtchaell, Clarence S., Ross, Calif. Luggage tray. 169,577, May 19.
Busby, Kenneth K., Medford Lakes, N. J. Psychiatric testing and demonstration device or similar article. 169,578, May 19.
Campbell, Walter L., St. Petersburg, Fla. Combination bench and receptacle. 169,579, May 19.
Carvel, Thomas, Yonkers, N. Y. Spoon. 169,580, May 19.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Drewa, Millesan, Laguna Beach, Calif. Vase. 169,581, May 19.
Du Kane Corporation, assignee: *See*—
Larson, Robert H.
Dulane, Inc., assignee: *See*—
Budlane, Stanley J., and Dusek.
Dusek, Robert: *See*—
Budlane, Stanley J., and Dusek.
Ebret, Robert D., Haito Rey, P. R. Combined funeral and flower car. 169,582, May 19.
Ekco Products Company, assignee: *See*—
Wagner, Franz.
Emery, William M., New Providence, N. J. Pillow. 169,583, May 19.
Gannett, Joseph K., Chagrin Falls, and R. H. Strasmyer, Lakewood, assignors to The Austin Company, East Cleveland, Ohio. Building wall. 169,584, May 19.
Goodstein, Wallace M., San Francisco, Calif. Sports display cornice unit. 169,585, May 19.
Hagewood, Lorris V., Gatlinburg, Tenn. Handbag. 169,586, May 19.
Hagewood, Lorris V., Gatlinburg, Tenn. Handbag. 169,587, May 19.
Hanselmann, Willy, Paris, France, assignor to Edgar C. Hyman Co. Inc., New York, N. Y. Scarf. 169,588, May 19.
Hassenfeld, Merrill L., Providence, R. I. Tethered top toy. 169,589, May 19.
Hauser, Jon W., Oak Park, assignor to Hawley Products Company, St. Charles, Ill. Combined toilet seat and cover therefor. 169,590, May 19.
Hawley Products Company, assignee: *See*—
Hauser, Jon W.
Helm Accessories, Inc., assignee: *See*—
Helm, Frederick A.
Helm, Frederick A., assignor to Helm Accessories, Inc., Detroit, Mich. Automobile hood ornament. 169,591, May 19.
Hyman, Edgar C., Co. Inc., assignee. *See*—
Hanselmann, Willy.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 169,592, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,593, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 169,594, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,595, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 169,596, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 169,597, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,598, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 169,599, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,600, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 169,601, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,602, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 169,603, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,604, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,605, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,606, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,607, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,608, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,609, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,610, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,611, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,612, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,613, May 19.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,614, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,615, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,616, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,617, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,618, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,619, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,620, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,621, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,622, May 19.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 169,623, May 19.
Katzin, Sonia, Chicago, Ill. Hat. 169,624, May 19.
Kellogg, R. R., Advertising Services, Inc., assignee: *See*— Melton, James O.
Kohl, Mack, Hempshire, assignor to J. N. Marks, J. Tunkl, I. Rosenthal, and E. Lichtenstein, doing business as Tricraft Products Co., Chicago, Ill. Television antenna. 169,625, May 19.
Koslo, Robert C., Parma, Ohio, assignor to Lockley Machine Company, Newcastle, Pa. Garbage grinder. 169,626, May 19.
Landorf, Howard, New York, N. Y. Doll. 169,627, May 19.
Larson, Robert H., Batavia, assignor to Du Kane Corporation, St. Charles, Ill. Combination projector and phonograph. 169,628, May 19.
Latimer, Robert W.: *See*— Zel, Joe, and Latimer.
Lee Products, Inc., assignee: *See*— Abrams, Nicholas.
Lichtenstein, E., assignee: *See*— Kohl, Mack.
Lockley Machine Company, assignee: *See*— Koslo, Robert C.
Marks, Joseph N., assignee: *See*— Kohl, Mack.
Melton, James O., assignor to R. R. Kellogg Advertising Services, Inc., Los Angeles, Calif. Implement handle. 169,629, May 19.
Miller, Harold L., Grosse Pointe Park, assignor to Robot Appliances Inc., Dearborn, Mich. Door operator. 169,630, May 19.
Murray-Ohio Manufacturing Company, The, assignee: *See*— Schreckengost, Viktor.
Norman, William Z., New York, and J. Billig, Kew Gardens, assignors to Bilnor Corp., Maspeth, N. Y. Inflatable float. 169,631, May 19.
Pfarrer, Walter F., Beaver Dam, Wis. Wall comb holder. 169,632, May 19.
Plax Corporation, assignee: *See*— St. Clair, Melvin E.
Ravenscroft, Mary E., Colorado Springs, Colo.; now by change of name Mary R. Riddle. Garden marker. 169,633, May 19.
Relia, Anthony, New York, N. Y. Sugar bowl set. 169,634, May 19.
Richards, Archer W., Chagrin Falls, Ohio. Bleacher seat unit. 169,635, May 19.
Richards, Archer W., Chagrin Falls, Ohio. Bleacher seat unit. 169,636, May 19.
Richards, Archer W., Chagrin Falls, Ohio. Bleacher seat unit. 169,637, May 19.
Riddle, Mary R.: *See*— Ravenscroft, Mary E.
Robot Appliances Inc., assignee: *See*— Miller, Harold L.
Rosenthal, I., assignee. *See*— Kohl, Mack.
Sadinoff, Max, New York, N. Y. Curtain fabric. 169,638, May 19.
St. Clair, Melvin E., Hartford, assignor to Plax Corporation, West Hartford, Conn. Bottle. 169,642, May 19.
Schreckengost, Viktor, Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Juvenile tractor. 169,639, May 19.
Schreckengost, Viktor, Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Juvenile tractor vehicle. 169,640, May 19.
Schroeder, Henry H., Jr., Essex Fells, assignor to Specialties Development Corporation, Belleville, N. J. Portable fire extinguisher or similar article. 169,641, May 19.
Specialties Development Corporation, assignee: *See*— Schroeder, Henry H., Jr.
Strasmyer, Robert H.: *See*— Gannett, Joseph K., and Strasmyer.
Telcraft Products Co., assignee: *See*— Kohl, Mack.
Tunkl, Julius, assignee: *See*— Kohl, Mack.
Wagner, Franz, assignor to Ekco Products Company, Chicago, Ill. Box cover. 169,643, May 19.
Weiss, Alexander C. H., Chicago, Ill. Ski pole ring. 169,644, May 19.
Wiggins, Walter, Jr., Beaver Heights, Md. Automobile. 169,645, May 19.
Wright, Frank O., Memphis, Tenn. Walking heel for a cast. 169,646, May 19.
Wright, Frank O., Memphis, Tenn. Walking heel for a cast. 169,647, May 19.
Zaic, Anton, Queens Village, N. Y. Tray. 169,648, May 19.
Zel, Joe, Cleveland Heights, and R. W. Latimer, Bay Village, Ohio, assignors to American Greetings Corporation. Merchandise display rack. 169,649, May 19.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aberle, Roy, assignor to Southworth Machine Company, Portland, Maine. Skid lift. 2,639,150, May 19.
Abramson, Reuben, Forest Hills, N. Y. Infant's slip with adjustable shoulder straps. 2,638,598, May 19.
Activated Sludge Limited, assignee: *See*— Coombs, Eric P.
Adams, Francis A., administratrix: *See*— Adams, Max E.
Adams, Leonard, Buffalo, N. Y. Device for working in ceramics. 2,638,653, May 19.
Adams, Max E., deceased, Wilkes-Barre, Pa., F. A. Adams, administratrix. Ticket dispensing apparatus. 2,639,148, May 19.
Affiliated Gas Equipment, Inc., assignee: *See*— Erwin, Lee R., and Griffith.
Aines, Andrew A., United States Army, Petersburg, Va. Mechanical footwear testing machine. 2,638,776, May 19.
Ajax Pickers, Inc., assignee: *See*— Hanscom, Harris F.
Aktiebolaget Ferrosan, assignee: *See*— Rosdahl, Karl-Gustaf.
Albano, Alphonso F., Poughkeepsie, N. Y. Circulating means for automatic cookers or washers. 2,638,767, May 19.
Aldrich, Donovan D.: *See*— Kiebler, Le Roy A., Aldrich, and Weller.
Alexander, Emmett L., assignor to The George E. Failing Supply Company, Enid, Okla. Pressure equalizer. 2,638,932, May 19.
Allen, Ormand E., Geneva-on-the-Lake, Ohio. Collapsible adjustable supporting base for pinball machines. 2,639,114, May 19.
Allied Chemical & Dye Corporation, assignee: *See*— Sundstrom, Carl, and Fairbanks.
Allis-Chalmers Manufacturing Company, assignee: *See*— Jansson, Gustav E.
Rockwell, Harvey W.
Schick, Frederick A., and Knaust.
Alther, Joseph G., Evanston, and P. M. Van Arsdell, Chicago, Ill. Effervescent drink concentrate. 2,639,238, May 19.
Ambarian, Alice, Fresno, Calif. Sanitary garment. 2,638,899, May 19.
American Bosch Corporation, assignee: *See*— Humber, John N., Hogeman, and Burman.
Wood, George B., Jr.
American Box Board Company, assignee: *See*— Anderson, Wilbur O.
American Brake Shoe Company, assignee: *See*— Olson, Walter J.
American Coin Changer Corp., assignee: *See*— York, Ernest E.
American Cyanamid Company, assignee: *See*— Stirn, Frank E., and Taylor.
Soen, Tzeng-Jiueq.
Varela, Andrew A.
American Home Products Corporation, assignee: *See*— Kennedy, John G., and Bernhart.
American Machine and Metals, Inc., assignee: *See*— Hull, Richard L.
American Optical Company, assignee: *See*— Hazelton, Charles L.
Mahler, Joseph.
American Viscose Corporation, assignee: *See*— Cornwell, Ralph T. K.
Cruz, Mamerto M., Jr.
Wade, Worth.
Ammco Tools, Inc., assignee: *See*— Billeter, Henry R.
Amsco Packaging Machinery, Inc., assignee: *See*— Andina, Ernest J.
Anderson, Clarence E., Wadsworth, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Self-supporting automatically operable tube cutter. 2,638,667, May 19.
Anderson, Floyd E.: *See*— Scudi, John V., and Anderson.
Anderson, James D., Detroit, Mich. Nonskid attachment. 2,638,954, May 19.
Anderson, James W., Kansas City, Kans. Fountain brush head having sliding valve. 2,638,614, May 19.
Anderson, Raymond J., assignor to The Dow Chemical Company, Midland, Mich. Production of anhydrous zirconium fluoride. 2,639,218, May 19.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Front feed carriage for accounting machines. 2,639,019, May 19.
Anderson, Walter A., Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y. Type bar restraining mechanism for accounting machines. 2,639,088, May 19.
Anderson, Wilbur G., Jr., assignor to American Box Board Company, Grand Rapids, Mich. Folding box. 2,639,080, May 19.
Andina, Ernest J., New York, assignor to Amsco Packaging Machinery, Inc., Long Island City, N. Y. Machine for heat-sealing thermoplastic materials. 2,638,964, May 19.
Anetsberger Bros., Inc., assignee: *See*— Kinzelman, Joseph, and Anetsberger.
Anetsberger, Frank A.: *See*— Kinzelman, Joseph, and Anetsberger.
Armco Steel Corporation, assignee: *See*— Stevens, George J.
Armstrong Cork Company, assignee: *See*— Ehle, George E.
Army, United States of America as represented by the Secretary of the, assignee: *See*— Fischbach, Adolph.
Frederick, Edward R., and Malmberg.
Arnold, Ben E., Port Orchard, Wash. Lever actuated slidable jaw wrench. 2,638,808, May 19.
Arnold, Joy P., Des Moines, Iowa. Weight support and lifting device. 2,638,657, May 19.
Ashcraft, Jack W., assignee: *See*— Nelson, John W. and J. B.
Athey Products Corporation, assignee: *See*— MacDonald, Raymore D.
Atkins, Elizabeth S., Asheville, N. C. Drapery, drapery heading, and supporting means therefor. 2,638,978, May 19.
Attendu, André C.: *See*— Hurter, Alfred T., and Atteudu.
Augustadt, Herbert W., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating wave generator. 2,639,385, May 19.
Aurora Equipment Company, assignee: *See*— Dunham, Thomas M.
Austin, Dwight E., Kent, Ohio. Bed bottom. 2,638,606, May 19.
Austin, James M., Old Westbury, N. Y. Razor blade magazine. 2,639,029, May 19.
Austin, Leonard E., assignor to Illinois Tool Works, Chicago, Ill. Machine for orienting and driving longitudinally asymmetrical headless fasteners. 2,638,945, May 19.
Austin, Merritt B., Jr., Deerfield, Ill. Electrical outlet box. 2,639,054, May 19.
Autogiro Company of America, assignee: *See*— Pitcairn, Harold F.
Automatic Electric Laboratories, Inc., assignee: *See*— Graybill, Kenneth W., and Sengebusch.
Ostline, John E.
Autopoint Company, assignee: *See*— Woods, Fred D.
Babcock, Wallace C., Bayside, and H. W. Nylund, Great Neck, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave-guide isolation coupling system. 2,639,371, May 19.
Babcock & Wilcox Company, The, assignee: *See*— Anderson, Clarence E.
Brister, Paul M., and Koolstra.
Bachelder, Albert J., Lexington, and O. E. Wolff, Concord, assignors to Polaroid Corporation, Cambridge, Mass. Photographic processing apparatus. 2,638,828, May 19.
Baisel, Edwin C.: *See*— Delany, John J., and Baisel.
Baker, Allister L.: *See*— Keuffel, Carl W., and Baker.
Keuffel, Carl W., Hillman, Baker, and Geier.
Baker, Arthur: *See*— Evans, Cyril G., and Baker.

Baker, John G., assignor to Baker Manufacturing Company, Evansville, Wis. Averaging protractor for matching aircraft propeller blades. 2,638,680, May 19.

Baker Manufacturing Company, assignee: *See*—
Baker, John G.

Baker, Robert L., Cedar Bluff, Ala. Remote-controlled model helicopter. 2,638,707, May 19.

Hakke, Hans A., Swampscott, Mass., assignor to General Electric Company. Offset damping of electrical measuring instruments. 2,639,307, May 19.

Ball, Charles F., Franklin, Pa., assignor to Joy Manufacturing Company. Reeling mechanism for power conductors. 2,639,102, May 19.

Ball, Charles F., and R. T. Hair, Franklin, Pa., assignors to Joy Manufacturing Company. Vehicle reel control. 2,639,103, May 19.

Ballard, Bernard T., Warren, Ohio, assignor to United States Gypsum Company, Chicago, Ill. Window construction. 2,638,640, May 19.

Ballard, Seaver A.: *See*—
Whetstone, Richard R., and Ballard.

Balsiger, Harold E., Waynesboro, Pa., and R. E. Price, Highfield, Md., assignors to Landis Tool Company, Waynesboro, Pa. Crank grinding machine. 2,638,719, May 19.

Balzer, Abram P., and J. A. Stoesz, Mountain Lake, Minn. Swather platform adjusting means. 2,638,728, May 19.

Bannen, John A., Bronx, N. Y. Rail trailer carrier. 2,638,852, May 19.

Banner, Robert G., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Removal of halide ions from chromate liquors. 2,639,216, May 19.

Bannon, Thomas C., Altadena, and L. Spencer, South Pasadena, assignors of thirty-three and one-third per cent to J. D. Chesnut, Newport Beach, Calif. Gun perforator actuator. 2,638,981, May 19.

Bargewell, Clayton E., assignee: *See*—
Redlind, John O.

Barnes, Thomas F., Chicago, Ill. Cylindrical container and making same. 2,638,820, May 19.

Barr, John M., Rochester, N. Y., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Fuel supply control system for intermittent jet engines. 2,638,739, May 19.

Barr, John M., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Diaphragm. 2,638,930, May 19.

Barr, John M., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Diaphragm. 2,638,931, May 19.

Barrell, Robert F.: *See*—
Hartwig, Edward C., and Barrell.

Barris, Pierre G. M., Paris, France. Process and apparatus for bringing an object to a given temperature. 2,638,759, May 19.

Barth, Robert M., Pelham Manor, assignor to Price-Driscoll Corporation, New York, N. Y. Mold parting surface and application. 2,639,213, May 19.

Bartlett, Kenneth M., and N. J. Connavino, South Euclid, assignors to Thompson Products, Inc., Cleveland, Ohio. Making turbine blades. 2,638,663, May 19.

Baumgartner, John R., Milwaukee, Wis. Blank forming press feed. 2,638,821, May 19.

Baxter, John E., assignor to Parker Rust Proof Company, Detroit, Mich. Sulfide coating. 2,639,245, May 19.

Beck, Carl H., Los Altos, Calif. Effective brake indicator for railroad cars. 2,638,864, May 19.

Becnel, Herman M., Baton Rouge, La., assignor to Standard Oil Development Company. Return bend for fired coils. 2,639,127, May 19.

Bell, Alan, and D. J. Shields, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Stabilization of fats and oils with 2,5-dihydroxyphenyl dimethyl carbinol and related antioxidants. 2,639,288, May 19.

Bell, James S., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Crystal controlled oscillator. 2,639,387, May 19.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Augustadt, Herbert W.
Babcock, Wallac C., and Nylund.
Gardner, Leland A., and Rea.
Hampton, Leon N., and Salzer.
Lewis, Willard D.
Mallery, Paul.
Parkinson, David B.
Retallack, John B.
Ring, Douglas H.
Warner, Arthur W., Jr.

Bellairs, Guy f., London, and J. C. Ireland, Tunbridge Wells, assignors to British Telecommunications Research Limited, Taplow, England. Selector. 2,639,417, May 19.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Bendix Aviation Corporation, assignee: *See*—
Blancher, Donald W.
Haas, Harold G.

Benedict, Donald L., Manhasset, N. Y., assignor to Sylvania Electric Products, Inc. Electron discharge device. 2,639,405, May 19.

Bengtsson, Sten, assignee: *See*—
Dahlgren, Carl A.

Bennett, John O., Bartow, Fla. Apparatus for determining impedance characteristics of transmission lines. 2,639,317, May 19.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Adsorption process. 2,638,999, May 19.

Berleme, George H., Brooklyn, N. Y. Door peep observation device. 2,638,810, May 19.

Bernhart, Finn W.: *See*—
Kennedy, John G., and Bernhart.

Berrien Tool and Die Company, assignee: *See*—
Ferguson, Carl E., K., and R. C.

Berry, Michael F., Cleveland, Ohio. Combustion chamber for gaseous fuels. 2,638,975, May 19.

Bestpak Inc., assignee: *See*—
Thompson, Paul.

Better Monkey Grip Company, assignee: *See*—
Everett, Luther M., Sr.

Bigelow, Benjamin E., Warren, Pa. Lap vise and bench. 2,638,805, May 19.

Bigelow-Sanford Carpet Company, Inc., assignee: *See*—
Johnson, Charles R.
Reinhardt, Henry A.

Bill-E-Company, assignee: *See*—
Seale, Frank E.

Billeter, Henry R., Highland Park, assignor to Ammco Tools, Inc., North Chicago, Ill. Ridge reamer. 2,638,799, May 19.

Binkowitz, Barnett, Brooklyn, N. Y. Support structure for stockings. 2,638,602, May 19.

Binks, Melvin J., and A. A. Samolis, assignors to Republic Patent Corporation, Chicago, Ill. Step-up mechanism. 2,638,789, May 19.

Birt, Arthur W., Kings Langley, and J. W. Richardson, Watford, assignors to Piezo Crystals Limited, Redhill, Surrey, England. Mounting and holder for piezoelectric crystals. 2,639,393, May 19.

Black & Decker Manufacturing Company, The, assignee: *See*—
Holford, Frank L.

Black, Harvey B., Bogota, N. J. Variable-speed transmission. 2,638,796, May 19.

Blancher, Donald W., North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Electronic switching and mixing circuit for pulsating direct current. 2,639,379, May 19.

Bland, Rophie E., New York, N. Y., assignor to Houdry Process Corporation, Wilmington, Del. Protecting the walls of vessels containing fluent granular solids. 2,639,215, May 19.

Blattner, Emil H., Buffalo, assignor to The Symington-Gould Corporation, Depew, N. Y. Draft key retainer. 2,638,809, May 19.

Blevins, Walter G., Sr., and R. A. Coleman, West Chester, and J. Mills, Drexel Hill, assignors to Brandywine Mushroom Corporation, West Chester, Pa. Mushroom trimming machine. 2,638,949, May 19.

Bock, Carl J., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Brake drum vibration damper. 2,639,195, May 19.

Boothby, Clinton R.: *See*—
Winslow, John C., and Boothby.

Borg-Warner Corporation, assignee: *See*—
Hettinger, Sidney V., Jr.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Means for securing cooling units in window boxes. 2,638,735, May 19.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Condensate removal means. 2,638,756, May 19.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Ceiling mounted air-conditioning apparatus. 2,638,757, May 19.

Bourg, Alex, Littleton, Colo. Wheel supporting spindle for rotating cutting reel type mowers. 2,638,729, May 19.

Bowditch, Hoel L., and A. R. Catheron, assignors to Foxboro Company, Foxboro, Mass. Pneumatic valve control volume booster system. 2,638,875, May 19.

Bowles, Richard E., Silver Hill, Md. Gutter joint sealing means. 2,638,858, May 19.

Boyce, Clifford A., Burlington, Vt. Grill. 2,638,841, May 19.

Boyer, Mathew L., Nome, assignor of forty per cent to C. D. Victery, Liberty, Tex. Comb with scissors rest. 2,638,907, May 19.

Boynton, Earl S., East Orange, N. J. Mercury switch actuating mechanism for stand lamps. 2,639,369, May 19.

Bradford, James H., Tooele, Utah, assignor of one-half to Combined Metals Reduction Company. Processing furnace for discrete solids. 2,639,132, May 19.

Braendel, Helmuth G.: *See*—
Wilkening, Frederick W., Braendel, and Engelhardt.

Bragg, David K., Foxboro, W. F. Hickes, Sharon, and H. A. Neuman, Wrentham, assignors to The Foxboro Company, Foxboro, Mass. Vapor pressure thermometer. 2,639,189, May 19.

Brand, John R.: *See*—
McDonald, Frank H., Mackrell, Rado, and Brand.

Brandywine Mushroom Corporation, assignee: *See*—
Blevins, Walter G., Sr., Coleman, and Mills.

Brannen, David B., Tucson, Ariz. Typewriter warning device. 2,639,021, May 19.

Brannock, Kent C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing mixed alkyl esters of phosphoric acid. 2,639,292, May 19.

Breier, Marcus, assignor to Marcus Breier Sons, Inc., Amsterdam, N. Y. Slide fastener construction. 2,638,650, May 19.

Breier, Marcus, Sons, Inc., assignee: *See*—
Breier, Marcus.

Breivogel, Philip J.: *See*—
Sondern, Clarence W., and Breivogel.

Brent, George F.: *See*—
Brent, Margaret E. and G. F.

Brent, Margaret E. and G. F., Pittsburgh, Pa. Garment. 2,638,594, May 19.

Brevetti, Walter R., Highland, N. Y. Scooping and measuring utensil. 2,638,668, May 19.

Bridgeport Fabrics, Inc., assignee: *See*—
Spraragen, Louis.

Brierly, Ralph C., Narberth, Pa. Fuel burner diffuser. 2,638,974, May 19.

Briggs, Janet, Chicago, Ill., now by change of name J. M. Troxell. Maternity garment. 2,638,597, May 19.

Brister, Paul M., Madison, N. J., and L. F. Koolstra, Akron, Ohio, assignors to The Babcock & Wilcox Company, New York, N. Y. Welded joint of dissimilar metals. 2,639,363, May 19.

British Celanese Limited, assignee: *See*—
Hodge, Arthur, Drewitt, and Downing.

British Telecommunications Research Limited, assignee: *See*—
Bellairs, Guy f., and Ireland.
Gaite, Harold D.

Brooker, Leslie G. S.: *See*—
Sprague, Robert H., Brooker, and Dent.

Brooks, E. J., Company, assignee: *See*—
Moberg, Sigurd M.

Brown, Owen, Los Angeles, Calif. Intercooperative system for airborne and surface carriers. 2,639,107, May 19.

Brumbaugh, Harold C., assignor of one-third to M. E. Krueger, and one-third to H. Heltzel, Portland, Oreg. Collapsible trailer. 2,639,183, May 19.

Brush Development Company, The, assignee: *See*—
Szegvari, Andrew, and Gravley.

Bryan, James S., assignor to Philco Corporation, Philadelphia, Pa. Electromagnetic deflection yoke. 2,639,314, May 19.

Brzozowski, Witold, Westmount, Montreal, Canada, assignor to S. Czarnecki, Walden, N. Y. Burning fuel in jet-operated rotor blades. 2,638,989, May 19.

Bubb, Frank W.: *See*—
Morton, Robert L., Jr., and Bubb.

Buchta, Karl: *See*—
Jacobi, Werner, Hinderer, and Buchta.

Buck, James R.: *See*—
Buck, Russell E. and J. R.

Buck, Russell E., Kalamazoo, and J. R. Buck, Scotts, Mich. Adjustable chuck. 2,639,157, May 19.

Budd, Larry J., Chicago, assignor to Pallet Devices, Inc., Melrose Park, Ill. Separator member for use in packing articles for shipment. 2,639,032, May 19.

Budd, Wilbert H., and A. M. Daily, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Shaftless electrical control instrumentality. 2,639,358, May 19.

Budlane, Stanley J., Chicago, Ill., assignor to Motorola, Inc. Pump. 2,638,849, May 19.

Bugg, Kenly C., assignor, by mesne assignments, to Kendick Manufacturing Company, Inc., Fort Wayne, Ind. Coil winding device. 2,638,943, May 19.

Buivid, Michel D., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Rotor head. 2,638,994, May 19.

Bullard, Edward P., III, Fairfield, Conn. Article of footwear. 2,638,601, May 19.

Bullard, Edward P., III, Fairfield, Conn. Article of footwear. 2,638,690, May 19.

Burby, Philip E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,638,610, May 19.

Burekel, Christian E., Yonkers, N. Y. Ruling and striping device. 2,638,673, May 19.

Burkart, Edward H.: *See*—
Simon, Eli, Thomas, and Burkart.

Burke, William O., assignor to National Lock Co., Rockford, Ill. Lid balancing hinge and support. 2,638,621, May 19.

Burman, Paul G.: *See*—
Humber, John N., Hogeman, and Burman.

Butler, George V., Rochester, N. Y. Apparatus for inverting patients during X-ray examinations. 2,639,206, May 19.

Butler Manufacturing Company, assignee: *See*—
Norquist, Victor C., and Day.

C. A. V. Limited, assignee: *See*—
Douglas, Cecil J.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Solution polymerization employing aqueous solutions of aromatic sulfonates. 2,639,279, May 19.

Caldwell, William I., and E. H. Woodhull, assignors to Taylor Instrument Companies, Rochester, N. Y. Control system. 2,638,921, May 19.

Caldwell, William I., assignor to Taylor Instrument Companies, Rochester, N. Y. Pneumatically operated control system. 2,638,922, May 19.

Callahan, John E., Medford, Mass. Shaft alignment device. 2,638,676, May 19.

Callaway Mills Company, assignee: *See*—
Parker, Samuel P.

Candlin, James E., Jr., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Welded corner post assembly. 2,638,854, May 19.

Caraway, John B., Evansville, Ind., assignor to United States of America as represented by the Secretary of War. Balanced to unbalanced energy transfer circuit. 2,639,328, May 19.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Means for limiting the supply of fuel to continuous combustion turbine engines during accelerations of the latter. 2,638,742, May 19.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Fuel supply system with emergency switching means. 2,638,973, May 19.

Carlino, Joseph, attorney, assignee: *See*—
Sparano, Ottorino.

Carlson, Eric S., assignor to General Motors Corporation, Detroit, Mich. Ash receiver with mounting plate. 2,639,055, May 19.

Carlson, George W., Wayne, assignor to Robotyper Corporation, Detroit, Mich. Spring biased actuator. 2,639,139, May 19.

Caron, John B. R.: *See*—
Glendenning, Everett B., Wies, and Caron.

Carter, Walton N., Columbus, Ga. Frictionally controlled sliding window sash. 2,638,639, May 19.

Case, J. C., Lynn, N. C. Head and batten stop motion attachment for looms. 2,638,940, May 19.

Castedello, William: *See*—
Schwartz, Morris, and Castedello.

Catheron, Allan R.: *See*—
Bowditch, Hoel L., and Catheron.

Cesaro, Richard S., and R. J. Koenig, Cuyahoga County, Ohio. Temperature sensing device. 2,638,784, May 19.

Chamberlain Corporation, assignee: *See*—
Etten, Nicholas L.

Chandler, Cecil D., Odessa, Tex. Grinding wheel dresser. 2,638,886, May 19.

Chase Bag Company, assignee: *See*—
West, Edward E.

Checkmaster Systems, Inc., assignee: *See*—
Krakenberg, Charles G.

Chelsea, James L., Los Angeles, Calif. Portable sawhorse. 2,639,197, May 19.

Cheney, Walter B.: *See*—
Hiatt, William C., and Cheney.

Cherba, Samuel: *See*—
Gronemeyer, Erich, and Cherba.

Cherry-Burrell Corporation, assignee: *See*—
Newhall, Benjamin G.

Chesnut, John D., assignee: *See*—
Bannon, Thomas C., and Spencer.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Vitreous enameling processes and products. 2,639,264, May 19.

Chicago Telephone Supply Corporation, assignee: *See*—
Budd, Wilbert H., and Daily.

Chiuzzi, Angel F., Saavedra, Argentina. Manually rotatable and tiltable headlamp. 2,639,367, May 19.

Christensen, Ahlmann: *See*—
Soberg, Arnold S., and Christensen.

Cities Service Research and Development Company, assignee: *See*—
Levitt, Percy B., and Morgan.

Civitelli, Gennaro, Hamden, Conn. Doorstop. 2,638,620, May 19.

Clair, Louis C., Bernice, La. Reduction choke for oil and gas well systems. 2,638,917, May 19.

Clark, Edward W.: *See*—
McAuley, David J., Richards, and Clark.

Clark, John T., Cicero, Ill. Spring structure. 2,638,896, May 19.

Clark, John W., and S. G. McNees, assignors to Collins Radio Company, Cedar Rapids, Iowa. Vacuum gauge of the ionization producing type. 2,639,397, May 19.

Clarridge, Ralph E., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for controlling a process. 2,638,919, May 19.

Clary, Patrick T., Carnegie, Pa. Coffee roaster. 2,639,133, May 19.

Clay, Henry J., attorney, assignee: *See*—
Sparano, Ottorino.

Clemson Agricultural College of South Carolina, The, assignee: *See*—
Park, Joseph K., and Powers.

Cleveland Trust Company, The, executor: *See*—
Heintz, James C.

Cline, Harold A., assignor to Emarco Corporation, Dayton, Ohio. Airport runway marker light. 2,639,360, May 19.

Clowes, William, & Sons Limited, assignee: *See*—
Croucher, Henry G.

Cobine, James D., Schenectady, N. Y., assignor to the United States of America as represented by the Secretary of War. Gas discharge tube. 2,639,409, May 19.

Coleman, Richard A.: *See*—
Blevins, Walter G., Sr., Coleman, and Mills.

Colgan, Oliver E., Collingswood, N. J., assignor to Radio Corporation of America. Signal seeking tuner. 2,639,372, May 19.

Collins, Edward J., Los Angeles, Calif., assignor to Williams Patent Corporation, Chicago, Ill. Record lifting mechanism for automatic phonograph record players. 2,639,154, May 19.

Collins Radio Company, assignee: *See*—
Clark, John W., and McNees.
Harris, Donald B.

Columbian Carbon Company, assignee: *See*—
Venuto, Louis J.

Columbus Metal Products, Inc., assignee: *See*—
Donlevy, Robert P.

Combined Metals Reduction Company, assignee: *See*—
Bradford, James H.

Comey, Charles S., and M. F. Saxton, assignors to The Engineered Products Company, Flint, Mich. Door latch. 2,638,771, May 19.

Compagnie Generale d'Electricite, assignee: *See*—
Dmard, Paul C.

Condra, Elmo L., Long Beach, Calif. Pipe repair sleeve. 2,638,987, May 19.

Cones, Ben, Indianapolis, Ind. Proportional, convection warming and circulating system. 2,638,834, May 19.

Congoleum-Nairn Inc., assignee: *See*—
Ward, Hugh.

Connavino, Nicholas J.: *See*—
Bartlett, Kenneth M., and Connavino.

Container Corporation of America, assignee: *See*—
Foster, Thomas W.

Cook, Frank W., Baldwinsville, N. Y., assignor to General Electric Company. Fastening device for shield cans. 2,639,311, May 19.

Coombs, Eric P., Finchley, London, assignor to Activated Sludge Limited, London, England. Diffuser for gases. 2,639,131, May 19.

Cope, Archie C., Ashland, Ky. Low tire indicator. 2,639,342, May 19.

Coppock, Franklin E., assignor to Dayton Embossed Products Corporation, Dayton, Ohio. Cover construction. 2,639,168, May 19.

Corn, James F., Jr., assignor to Hardwick Stove Company, Incorporated, Cleveland, Tenn. Broiler rack operating mechanism. 2,638,894, May 19.

Cornwell, Ralph T. K., Rosemont, Pa., assignor to American Viscose Corporation, Wilmington, Del. Nonfoggy moistureproof sheet. 2,639,241, May 19.

Cory Corporation, assignee: *See*—
Karlen, Harvey R.

Coveney, James W., Watertown, assignor to The Palmer Electric & Manufacturing Co., Wakefield, Mass. Sander. 2,639,175. May 19.

Cox, John E., Westlands, Newcastle, England. Electric fuse. 2,639,350, May 19.

Crampton Manufacturing Company, assignee: *See*—
Jacobson, Edwin B.

Crane Co., assignee: *See*—
Glaza, Thaddeus J.

Crawford, Franzo H., Williamstown, Mass., assignor to the United States of America as represented by the Secretary of War. Tunable magnetron tube. 2,639,406, May 19.

Creskoff, Jacob J., Washington, D. C., assignor to Thermo-Fluid Corporation. Producing cementitious bodies. 2,638,655, May 19.

Crompton, Charles, Jr., Brooklyn, N. Y. Attachable cuff for trouser legs and the like. 2,638,600, May 19.

Cromwell Paper Company, The, assignee: *See*—
Stern, Walter.

Crouch, John E.: *See*—
Studebaker, Merton L., and Crouch.

Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of thioacetic acid and diacetyl sulfide. 2,639,293, May 19.

Crouch, Willie W., and R. T. Werkman, Bartlesville, Okla., assignors to Phillips Petroleum Company. Manufacture of diacetyl sulfide. 2,639,206, May 19.

Croucher, Henry G., assignor to William Clowes & Sons Limited, Beccles, England. Machine for producing type faced impressions in or for printing. 2,639,017, May 19.

Crout, Prescott D., Lexington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Strapped multicavity magnetron. 2,639,403, May 19.

Croy, Charles R., Ecorse, Mich. Optical image focusing apparatus. 2,638,815, May 19.

Crux, Mamerto M., Jr., assignor to American Viscose Corporation, Wilmington, Del. Making stable detwisted yarns and fabrics comprising the same. 2,638,734, May 19.

Cubberley, Amariah H., Belleville, N. J. Heating control system. 2,639,095, May 19.

Cuinane, Charles H.: *See*—
Dilworth, John P., and Cuinane.

Cunningham, Richard, Jr.: *See*—
Lemos, Albert, Jr., and Cunningham.

Curlee, Harvey P., Raleigh, N. C., assignor to Curlee Machinery Company, Inc. Sandwich machine for applying coatings to bakery goods. 2,638,868, May 19.

Curlee Machinery Company, Inc., assignee: *See*—
Curlee, Harvey P.

Curtiss-Wright Corporation, assignee: *See*—
Lundquist, Wilton G., Stark, and Schaffer.
Sasse, Richard C.

Cushman Chuck Company, The, assignee: *See*—
Sloan, Harry E.

Cushman, Walton W., Webb City, Mo. Pallet. 2,639,112, May 19.

Czarnecki, Stefan, assignee: *See*—
Brzozowski, Witold.

Dahlgren, Carl A., assignor to S. Bengtsson, Malmo, Sweden. Adjustable bookholder for hospital beds. 2,638,701, May 19.

Daily, Arthur M.: *See*—
Budd, Wilbert H., and Daily.

Daisy Manufacturing Company, assignee: *See*—
Wells, William S.

D'Alton, William, Paris, France. Friction type lighter. 2,638,763, May 19.

Danco Metal Products, Inc., assignee: *See*—
Danielson, Carl G.

Daniels, William A., Seven Hills Village, Ohio. Support for ice-cream containers and the like. 2,639,039, May 19.

Danielson, Carl G., Rocky River, assignor to Danco Metal Products, Inc., Westlake, Ohio. Can crushing device. 2,638,957, May 19.

Darabaris, Peter, Clifton, N. J. Variable precision measuring instrument. 2,638,678, May 19.

D'Arcy, Ellis W., assignor to De Vry Corporation, Chicago, Ill. Film guide roller for motion-picture projecting machines. 2,639,146, May 19.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Snubbing means for railway car truck springs. 2,638,853, May 19.

Daun, Carl L., Milwaukee, Wis., assignor to Daun & Co., Chicago, Ill. Cooling and dispensing device. 2,638,758, May 19.

Daun & Co., assignee: *See*—
Daun, Carl L.

Davidson, Guy C., Burbank, Calif. Water spraying and debris moving device. 2,638,730, May 19.

Davis, Joseph M., Tacoma, Wash. Curtain and drape support. 2,639,041, May 19.

Davis, Ralph A.: *See*—
Ruh, Robert P., and Davis.

Day, Harl S.: *See*—
Norquist, Victor C., and Day.

Dayton, Benjamin H., assignor to Eastman Kodak Company, Rochester, N. Y. High vacuum diffusion pump. 2,639,086, May 19.

Dayton Embossed Products Corporation, assignee: *See*—
Coppock, Franklin E.

Dearborn Motors Corporation, assignee: *See*—
Gladis, Cyril M.
Sawyer, Fredrick D.

Deering Milliken Research Trust, assignee: *See*—
Hare, Donald G. C.
Klein, Norman E.

De Hart, Edward S.: *See*—
Errig, William F., and De Hart.

Delany, John J., and E. C. Baisel, assignors to Delany Realty Corporation, New York, N. Y. Self-throttling valve. 2,638,929, May 19.

Delany Realty Corporation, assignee: *See*—
Delany, John J., and Raisel.

De Martini Macaroni Co., Inc., The, assignee: *See*—
Maldari, Donato.

Dent, Samuel G., Jr.: *See*—
Sprague, Robert H., Brooker, and Dent.

De Pillot de Coligny, Guerric, Versailles, France. Method and device for focusing of radiations by means of stationary reflector and refractor gratings. 2,639,384, May 19.

Derkovitz, Martin J., Lancaster, N. Y. Fishing device. 2,638,696, May 19.

De Rosset, Armand J., Clarendon Hills, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for effecting gas-liquid mixing. 2,639,120, May 19.

Desmond-Stephan Mfg. Co., The, assignee: *See*—
Eaton, George.

Des Roches, Emile, Vancouver, British Columbia, Canada. Circuit tester. 2,639,318, May 19.

De Vry Corporation, assignee: *See*—
D'Arcy, Ellis W.

Diamond Alkali Company, assignee: *See*—
Banner, Robert G.

Diamond Match Company, The, assignee: *See*—
Olson, Eric P.

Dickison, William: *See*—
Fletcher, Lynn, and Dickison.

Dilworth, John P., and C. H. Cuinane, Fishkill, assignors to The Texas Company, New York, N. Y. Lubricating grease comprising a complex ester base and sodium myristate. 2,639,266, May 19.

Di-Noc Company, The, assignee: *See*—
Reese, Thomas S.

Doeg, Ralph W., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating unit mounting. 2,638,753, May 19.

Doering, Charles, Chicago, Ill. Container brush and the like. 2,638,617, May 19.

Dolan, Lawrence E.: *See*—
Michaelsen, William G. and C. W., Gerbode, and Dolan.

Dole Refrigerating Company, assignee: *See*—
Kleist, Herman W.

Dolph, William B., Washington, D. C. Program control apparatus. 2,638,980, May 19.

Donley, Hugh L., and E. O. Kelzer, Princeton, N. J., assignors to Radio Corporation of America. Automatic frequency control. 2,639,376, May 19.

Donley, Robert P., assignor to Columbus Metal Products, Inc., Columbus, Ohio. Turn signal. 2,639,343, May 19.

Dorr Company, The, assignee: *See*—
Jukkola, Waifred W.

Douglas, Cecil J., Ruislip, assignor to C. A. V. Limited, London, England. Electric motor-driven worm gearing. 2,639,394, May 19.

Dow Chemical Company, The, assignee: *See*—
Anderson, Raymond J.
Griess, Gerald A., and Strandskov.
Griess, Gerald A., and Teot.
Head, James D.
Ruh, Robert P., and Davis.

Dow, Doris B., administratrix, trustee, assignee: *See*—
Dow, John A.

Dow, John A., deceased, Huntington Woods, Mich., D. B. Dow, administratrix of said John A. Dow, assignor to D. B. Dow, Royal Oak, Mich., as trustee. Heat-treating element for heat-treating furnaces. 2,638,880, May 19.

Dow, John A., deceased, Huntington Woods, Mich.; D. B. Dow, administratrix of said John A. Dow, assignor to D. B. Dow, Royal Oak, Mich., as trustee. Heat-treating apparatus. 2,639,138, May 19.

Downing, John: *See*—
Hodge, Arthur, Drewitt, and Downing.

Dowty Equipment Limited, assignee: *See*—
Carey, Frederick H.

Doyle, Charles C., Willoughby, Ohio. Heating-control appliance. 2,639,364, May 19.

Drewitt, James G. N.: *See*—
Hodge, Arthur, Drewitt, and Downing.

Dube, John H., Dallas, Tex. Producing lightweight aggregates. 2,639,269, May 19.

Dunham, Thomas M., Batavia, assignor to Aurora Equipment Company, Aurora, Ill. Shelf attaching and supporting means. 2,639,043, May 19.

Dunlap, William C., Jr., Schenectady, N. Y., assignor to General Electric Company. Stabilizing semiconductor material. 2,639,246, May 19.

Dunning, Harry C., Columbus, Ohio. Radial cylinder engine. 2,638,876, May 19.

Dunsheath, Thomas J., assignor to Magnaflux Corporation, Chicago, Ill. Electrical contact. 2,639,355, May 19.

Durham, Arthur S., Pico, Calif. Means including a winding shaft and a roller for mounting and collapsing tubular containers. 2,639,059, May 19.

Duval, Montague H., Westport, Conn. Method and apparatus for conditioning baked products. 2,638,685, May 19.

Duyvené de Wit, Erik, Amsterdam, Netherlands. Apparatus for making coffee and like infusions. 2,638,840, May 19.

Dynaimatic Corporation, assignee: *See*—
Jaeschke, Ralph L.

Earle, Guyon L. C., Forest Hills, N. Y. Combination space and water heater and incinerator unit. 2,638,891, May 19.

Eastman Kodak Company, assignee: *See*—
Bell, Alan, and Shields.
Brannock, Kent C.
Caldwell, John R.
Dayton, Benjamin B.
Fairbanks, Henry N.
Hagemeyer, Hugh J., Jr.
Henn, Richard W.
Johnson, Merriam E.
Leavitt, Roger P., and White.
Mench, John W., and Lounsbery.
Morey, Donald R., and White.
Smith, Robert C.
Sprague, Robert H., Brooker, and Dent.
Wiltala, Edwin S., and Rogers.

Easy Washing Machine Corporation, assignee: *See*—
Rogers, John P.
Walker, Willard R.

Eaton, George, assignor to The Desmond-Stephan Mfg. Co., Urbana, Ohio. Grinding wheel dresser. 2,638,887, May 19.

Eaton Manufacturing Company, assignee: *See*—
Winther, Anthony and M. P.

Eccleston, Paul H.: *See*—
Verdahl, Milton B., Grace, and Eccleston.

Eclipse Fuel Engineering Co., assignee: *See*—
Stadler, Albert.

Edwards, Arnold D., Jacksonville, Fla. Plant packer. 2,638,713, May 19.

Edwards, Herbert C., Canal Fulton, assignor to The Timken Roller Bearing Company, Canton, Ohio. Mechanism for feeding cylindrical articles into a centerless grinder. 2,638,723, May 19.

Edwards, William E., assignor to Sutcliffe Speakman & Company Limited, Leigh, England. Rotating bed adsorber. 2,639,000, May 19.

Egger, Léon, assignor to Societe Savoisienne de Constructions Electriques, Aix-les-Baines, France. Safety device for transformers with oil reservoir. 2,639,309, May 19.

Egger, Léon J., assignor to Societe Savoisienne de Constructions Electriques, Aix-les-Baines, France. Safety device for transformers with expansion tanks. 2,639,308, May 19.

Ehle, George E., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Shoe stiffener and making same. 2,639,240, May 19.

Elderkin, James K.: *See*—
Mascuch, Joseph J., and Elderkin.

Electric Controller & Manufacturing Company, The, assignee: *See*—
Widdows, Richard G.

Electrographic Corporation, assignee: *See*—
Grumbache, Edward S.

Elias, Frederick, Woodbourne, N. Y. Radiograph calculator. 2,639,091, May 19.

Elliott, Edwin S., Petersburg, Va., assignor to Hercules Powder Company, Wilmington, Del. Heat-treated alkali-metal carboxymethyl cellulose and preparing it. 2,639,239, May 19.

Eloranta, Vaito K., Boston, assignor to Polaroid Corporation, Cambridge, Mass. Sunshield with depending visor. 2,638,593, May 19.

Emarco Corporation, assignee: *See*—
Cline, Harold A.

Emard, Paul Charles, Lyons, assignor to Compagnie Generale d'Electricite, Paris, France. Machine for making coaxial cables. 2,638,839, May 19.

Emhart Manufacturing Company, assignee: *See*—
Rowe, George E.

Emig, Frank R., assignor to The Ohio Injector Company, Wadsworth, Ohio. Fluid motor. 2,638,877, May 19.

Emmer, Charles E., assignor to General Binding Corporation, Chicago, Ill. Book and binder therefor. 2,638,902, May 19.

Emmer, Charles E., assignor to General Binding Corporation, Chicago, Ill. Portable punching machine. 2,638,986, May 19.

Engelhardt, Carl F.: *See*—
Wilkening, Frederick W., Braendel, and Engelhardt.

Engineered Products Company, The, assignee: *See*—
Comey, Charles S., and Saxton.

Engineering Research Associates, Inc., assignee: *See*—
Gutterman, Robert P.

Enterprise Wheel & Car Corporation, assignee: *See*—
Jones, Frank A.

Eppinger, Louis J., Detroit, Mich. Fish lure. 2,638,698, May 19.

Errig, William F., Jenkintown, Pa., and E. S. De Hart, Collingswood, N. J., assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Circumferential tire slitting tool. 2,638,984, May 19.

Erwin, Lee R., Monrovia, and J. B. Griffith, Pasadena, Calif., assignors to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Water cooler. 2,638,751, May 19.

Etten, Nicholas L., assignor to Chamberlain Corporation, Waterloo, Iowa. Clothes wringer. 2,638,768, May 19.

Euler, George M., Schenectady, N. Y., assignor to General Electric Company. Thermal type overload circuit breaker. 2,638,737, May 19.

Evans, Cyril G., Sandhurst, and A. Baker, Farnborough, assignors to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Production of articles from synthetic resinous materials. 2,639,258, May 19.

Evans, Homer R., Silver Spring, Md. Adjustable leg for beds and the like. 2,638,607, May 19.

Everett, Luther M., Sr., assignor to Better Monkey Grip Company, Dallas, Tex. Patching automobile inner tubes. 2,638,961, May 19.

Everhart, Edgar, and M. A. Herlin, Cambridge, A. G. Smith, Boston, and W. V. Smith, Medford, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Magnetron circuit. 2,639,404, May 19.

Failing, George E., Supply Company, The, assignee: *See*—
Alexander, Emmett L.

Fairbank, Murry N., Belmont, assignor to Polaroid Corporation, Cambridge, Mass. Camera shutter mechanism. 2,638,825, May 19.

Fairbank, Murry N., Belmont, assignor to Polaroid Corporation, Cambridge, Mass. Film holder for self-developing cameras. 2,638,826, May 19.

Fairbanks, Henry N., assignor to Eastman Kodak Company, Rochester, N. Y. Sprocket enclosing system. 2,639,147, May 19.

Fairbanks, Paul L.: *See*—
Sundstrom, Carl, and Fairbanks.

Farnam, F. D., Co., assignee: *See*—
Farnam, Franklin W. and R. G.

Farnam, Franklin W., Elmhurst, and R. G. Farnam, Glen Ellyn, assignors to F. D. Farnam Co., Chicago, Ill. Combined shim and gasket. 2,639,174, May 19.

Farnam, Robert G.: *See*—
Farnam, Franklin W. and R. G.

Farrar, Willie W., Wichita Falls, Tex. Traversing mechanism. 2,639,105, May 19.

Fatland, Conrad, Chicago, Ill. Mop holder. 2,638,616, May 19.

Feb Products Company, The, assignee: *See*—
Gough, William E., Jr.

Feeney, Thomas A., and A. R. Vogel, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Dual source foil powered control system. 2,638,736, May 19.

Feeney, Thomas A., Los Angeles, and S. A. Hall, Gardena, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Atrplane trim control. 2,639,108, May 19.

Feilden, Geoffrey B. R., assignor to Ruston & Hornsby Limited, Lincoln, England. Construction of turbine-inlet and stator elements of gas turbines. 2,638,743, May 19.

Feilden, Geoffrey B. R., Lincoln, and R. E. Wigg, Ealing Common, London, assignors to Ruston & Hornsby Limited, Lincoln, England. Fluid to fluid heat exchanger. 2,639,125, May 19.

Felton, George F., Millers Falls, Mass. Insignia mount. 2,638,867, May 19.

Ferguson, Carl E., K., and R. C., assignors to Berrien Tool and Die Company, Eau Claire, Mich. Groundworking machine. 2,638,831, May 19.

Ferguson, Kendall: *See*—
Ferguson, Carl E., K., and R. C.

Ferguson, Robert C.: *See*—
Ferguson, Carl E., K., and R. C.

Ferrier, David J., St. Kilda, Victoria, Australia. Amplifying apparatus for use with telephones. 2,639,329, May 19.

Ferris, Walter, Milwaukee, Wis. Piston assembly for axial type hydrodynamic machines. 2,638,850, May 19.

Fine, Samuel: *See*—
Rittner, Edmund S., and Fine.

First National Bank and Trust Company of Hamliton, The, executor: *See*—
Yingling, Frank B.

Fischbach, Adolph, Ocean Township, Monmouth County, N. J., assignor to the United States of America as represented by the Secretary of the Army. Pile battery fabrication. 2,639,306, May 19.

Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Structural member. 2,639,012, May 19.

Flaig, Edward J.: *See*—
Flaig, Ernest E. and E. J.

Flaig, Ernest E. and E. J., London, England. Pipette, burette, and the like. 2,638,787, May 19.

Flaith, George D., and J. E. Smith, Jr., Philadelphia, Pa. Top and coupling for barrels. 2,638,914, May 19.

Fleming, John J., Davenport, Iowa. Telephone handset hanger. 2,639,334, May 19.

Fletcher, Bernard: *See*—
Gruenberg, Leo, and Fletcher.

Fletcher, Lynn, Lowell, Mich., and W. Dickison, Des Plaines, Ill., assignors to Lowell Specialty Company, Lowell, Mich. Sprayer. 2,639,192, May 19.

Flink, Henry, Morton, Minn. Sponge rubber wristlet. 2,638,599, May 19.

Food Machinery and Chemical Corporation, assignee: *See*—
Errig, William F., and De Hart.
Kerr, Charles E.

Forse Corporation, assignee: *See*—
Forse, Harry D., Thompson, and Hooper.

Forse, Harry D., W. P. Thompson, and L. T. Hooper, Anderson, Ind.; said Thompson and said Hooper assignors to Forse Corporation, Anderson, Ind. Shirt folding apparatus. 2,639,065, May 19.

Forstner Chain Corporation, assignee: *See*—
Ruf, Hermann.

Foster, Thomas W., aasignor to Container Corporation of America, Chicago, Ill. Diaplay folder. 2,638,693, May 19.

Fox, Alexander P., University City, assignor to Lincoln Engineering Company, St. Louis, Mo. Elevating means for lance type lubricant pumps. 2,639,062, May 19.

Fox, Karl: *See*—
Gurin, Emanuel, and Fox.

Foxboro Company, assignee: *See*—
Bowditch, Hoel L., and Catheron.

Foxboro Company, The, assignee: *See*—
Bragg, David K., Hickes, and Neuman.

Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Two-speed reversible controller. 2,639,337, May 19.

Franck, Paul L., Washington, D. C. Combination dimmer and direction switch. 2,639,339, May 19.

Frank, Edward J., Springfield, and V. E. Phillips, Philadelphia, Pa., assignors to General Electric Company. Electric circuit breaker. 2,639,354, May 19.

Frederick, Edward R., and P. R. Malmberg, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Army. Apparatus for dielectric fabrication. 2,638,963, May 19.

Freimiller, Louis R., South Bend, Ind., and C. H. McKeever, Glenside, assignors to Rohm & Haas Company, Philadelphia, Pa. Diaminophenylthiobutenes. 2,639,283, May 19.

Frenkel, Meyer, London, England. Variable rate spring device. 2,639,140, May 19.

Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Hand stick for use in producing type matter photographically. 2,638,824, May 19.

Fridolph, Maude C., Pasadena, Calif. Brassière. 2,638,596, May 19.

Friedman, Nathan H.: *See*—
Smith, Franklin E., and Friedman.

Friend, Benjamin R., Indianapolis, Ind. Storage and baler cabinet. 2,639,037, May 19.

Froussard, Albert F., St. Louis, Mo. Boring implement. 2,638,802, May 19.

Frushour, Russel E., assignor to South Bend Lathe Works, South Bend, Ind. Table or head positioning attachment for drill presses and the like. 2,638,800, May 19.

Fuchs, Paul E., Colorado Springs, Colo. Device for severing rolled materials. 2,639,031, May 19.

Furman, Jack, San Antonio, Tex. Furniture structure, marquetry with fabric. 2,638,971, May 19.

Gabriel, Gustave O., West Haven, Conn., assignor of one-half to Perma Reality Co., New York, N. Y. Shock-absorbing mechanism. 2,639,141, May 19.

Gadberry, Howard M., and E. Peterson, assignors to Hall Brothers Incorporated, Kansas City, Mo. Staining embossing plates. 2,639,226, May 19.

Gaite, Harold D., assignor to British Telecommunications Research Limited, Taplow, England. Cam device for controlling electric circuits. 2,639,340, May 19.

Gamarekian, Sooren E., Schenectady, N. Y., assignor to General Electric Company. Recording apparatus. 2,639,209, May 19.

Gamble, Frederick D. M., assignor of one-half to Samuel Williams & Sons, Limited, London, England. Automatic weighing gear. 2,639,137, May 19.

Gardiner, Leland A., Summit, N. J., and W. T. Rea, Manhasset, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph trunk and control circuits. 2,639,320, May 19.

Garner, Herman H., assignee: *See*—
Russell, Kenneth F.

Garrigus, Robert O., Sr., Sarasota, Fla., assignor of one-half to W. Garrigus. Pad attachment for bed couches. 2,638,608, May 19.

Garrigus, Wanda, assignee: *See*—
Garrigus, Robert O., Sr.

Garringtons Limited, assignee: *See*—
Sharman, John C.

Gebauer, Charles L., Shaker Heights, and T. Shimrock, Cleveland, Ohio, said Shimrock assignor to said Gebauer. Means for dispensing liquids. 2,639,052, May 19.

Geier, George: *See*—
Keuffel, Carl W., Hillman, Baker, and Geier.

General American Transportation Corporation, assignee: *See*—
Talmey, Paul, and Kuster.
Talmey, Paul, and Landon.

General Binding Corporation, assignee: *See*—
Emmer, Charles E.

General Electric Company, assignee: *See*—
Bakke, Hans A.
Cook, Frank W.
Dunlap, William C., Jr.
Euler, George M.
Fitzgerald, Albert J.
Frank, Edward J., and Phillips.
Gamarekian, Sooren E.
Lafferty, James M.
Miller, Charles W.
Palmer, John H.
Rowe, Raymond N.
Smith-Johannsen, Robert, and Oliver.
Torach, Charles E.
Ward, William W.

General Foods Corporation, assignee: *See*—
Kerlin, John W.

General Motors Corporation, assignee: *See*—
Bock, Carl J.
Carlson, Eric S.
Kelley, Oliver K.
McDuffie, Archie D., and Smith.

General Precision Laboratory Incorporated, assignee: *See*—
Karpeles, Mark A.

General Time Corporation, assignee: *See*—
Schlenker, Max E.

General Tire & Rubber Company, The, assignee: *See*—
Iredell, Robert, Jr.

Geolograph Company, Inc., The, assignee: *See*—
Ramsey, King.

Gerbode, William H.: *See*—
Michaelsen, William G. and C. W., and Gerbode and Dolan.

Germanow-Simon Machine Co., Inc., assignee: *See*—
Vacanti, Michael C., and Granata.

Gerst, Chris, Detroit, assignor to The Transmission & Gear Company, Dearborn, Mich. Mixer closure. 2,639,128, May 19.

Geratmann, William, Buffalo, N. Y. Liquid suction device. 2,639,005, May 19.

Getting, Ivan A., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio pulse echo object locating system. 2,639,424, May 19.

Gianoglio, Ermanno, Milan, assignor to S. A. Luigi Rizzi & C., Modena, Italy. Hydraulic system for driving the rotation of sundry members in machines for the working of skins and hides. 2,638,709, May 19.

Gillette Company, The, assignee: *See*—
Muros, Joseph.

Girling Limited, assignee: *See*—
Sadler, Francis A. D.

Gladia, Cyril M., Butler, Pa., assignor, by mesne assignments, to Dearborn Motors Corporation, Highland Park, Mich. Flow adjusting means for fertilizer distributors. 2,639,061, May 19.

Glashaw, Frank L., St. Ignace, Mich. Fluid pressure actuated articulated boom. 2,639,048, May 19.

Glaza, Thaddeus J., assignor to Crane Co., Chicago, Ill. Combined pipe-line switch and diverter. 2,639,196, May 19.

Glazer, Daniel, Chicago, Ill. Molding. 2,638,632, May 19.

Gleeson, William S.: *See*—
Pankurh, William J., and Gleeson.

Glendenning, Everett B., Cranford, N. J., and C. Wies, New York, N. Y., and J. B. R. Caron, North Plainfield, N. J., assignors to Shell Development Company, San Francisco, Calif. Anticlogging fuel oil compositions. 2,639,227, May 19.

Glenn, Irving G., New York, N. Y. Electric heater. 2,639,359, May 19.

Gleyxal, André N., Cleveland, Ohio. Electrical calculator. 2,639,089, May 19.

Goebel, Paula, San Francisco, Calif. Garment. 2,638,595, May 19.

Goede, Charles F., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Axial flow fan. 2,639,087, May 19.

Goldberg, Max, assignee: *See*—
Goldberg, Robert J.

Goldberg, Max, New York, N. Y. Mattress filling machine. 2,639,073, May 19.

Goldberg, Robert J., assignor of one-half to Max Goldberg, New York, N. Y. Filling machine having vertically reciprocable tamping arms and plunger. 2,639,072, May 19.

Goldman, Sylvan N., Oklahoma City, Okla. Store service truck. 2,639,161, May 19.

Goldsmith, Albert J., New York, N. Y. Container structure with handle attachment. 2,639,082, May 19.

Golwynne, Henry A., New York, N. Y. Apparatus for the production of metal powder. 2,638,626, May 19.

Golwynne, Henry A., New York, N. Y. Method and apparatus for the production of metal powder. 2,638,627, May 19.

Golwynne, Henry A., New York, N. Y. Production of metal powder. 2,638,630, May 19.

Golwynne, Henry A., New York, N. Y. Apparatus for collecting and discharging metal powders. 2,639,006, May 19.

Goodhue, William V., and R. E. Morton, Warwick, R. I., assignors to Universal Winding Company, Boston, Mass. Bobbin stripper. 2,638,658, May 19.

Goodhue, William V., and R. E. Morton, Warwick, R. I., assignors to Universal Winding Company, Boston, Mass. Method and means for automatically winding filling bobbins in a loom and supplying them to the shuttle thereof. 2,638,936, May 19.

Goodhue, William V., and R. E. Morton, Warwick, R. I., assignors to Universal Winding Company, Boston, Mass. Bobbin stripper. 2,638,937, May 19.

Goodrich, Hunter C., Jr., Collingswood, assignor to Radio Corporation of America, Camden, N. J. Signal seeking receiver. 2,639,373, May 19.

Goodrich, Hunter C., Jr., Collingswood, N. J., assignor to Radio Corporation of America. Signal seeking radio receiver. 2,639,374, May 19.

Goodrich, Ross H., Claremont, N. H., assignor to Joy Manufacturing Company. Loading machine. 2,639,023, May 19.

Goon, Henry F.: *See*—
Mayo, Edward, and Goon.

Gottlieb, George A., New York, N. Y. Vehicle parking device. 2,638,995, May 19.

Gough, William E., Jr., assignor to The Feb Products Company, Chicago, Ill. Holder for replaceable paper rolls. 2,639,099, May 19.

Gould, Charles W., assignor to Hercules Powder Company, Wilmington, Del. Copolymers of allyl esters of stabilized rosin acids. 2,639,273, May 19.

Gould, Gerald G., Silver Spring, Md. Constant speed drive by use of a magnetic-fluid clutch. 2,639,414, May 19.

Gräbner, Willi, assignor to Dr. Lucas & Co., Zell on the Mosel, Germany. Attached closure for containers. 2,639,036, May 19.

Grace, John F., Arlington, assignor to Worthington Corporation, Harrison, N. J. Surface condenser and support therefor. 2,639,123, May 19.

Grace, Robert H.: *See*—
Vordahl, Milton B., Grace, and Eccleston.

Gram, Carl F., Rowayton, Conn., assignor to North American Rayon Corporation, New York, N. Y. Forming thread. 2,639,214, May 19.

Granata, Clarence: *See*—
Vacanti, Michael C., and Granata.

Gravley, Charles K.: *See*—
Szegvari, Andrew, and Gravley.

Gray, G. A., Company, The, assignee: *See*—
Walter, John M.

Gray, George P.: *See*—
Pratt, Verneur E., and Gray.

Graybill, Kenneth W., Elmhurst, and H. Sengebusch, Villa Park, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Counting relay. 2,639,416, May 19.

Green, Thomas L., & Company, Inc., assignee: *See*—
Hubbard, Frank H.

Green, William P., Los Angeles, Calif. Valve structure. 2,639,116, May 19.

Greenwald, Harold A., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Rotor blade attachment means and method. 2,639,119, May 19.

Griesbach, Edwin C., Oak Park, Ill. Door key fastener. 2,638,773, May 19.

Griess, Gerald A., Midland, Mich., and C. V. Strandskov, Des Moines, Iowa, assignors to The Dow Chemical Company, Midland, Mich. Styrene modified alkyd resins. 2,639,270, May 19.

Griess, Gerald A., Midland, Mich., and C. V. Strandskov, Des Moines, Iowa, assignors to The Dow Chemical Company, Midland, Mich. Styrene, alpha methyl styrene, drying oil modified alkyd resins. 2,639,271, May 19.

Griess, Gerald A., and A. S. Teot, assignors to The Dow Chemical Company, Midland, Mich. Styrene, alpha methyl styrene, drying oil fatty acid interpolymers. 2,639,272, May 19.

Griffith, Joseph R.: *See*—
Erwin, Lee R., and Griffith.

Griswold, Augustus W., Rochester, N. Y., and N. B. Nichols, St. Paul, Minn., assignors to Taylor Instrument Companies, Rochester, N. Y. Pneumatically operated control system. 2,638,911, May 19.

Gronemeyer, Erich, Pompton Plains, and S. Cherba, Totowa, N. J. Container closure. 2,639,057, May 19.

Gross, Adolph J., Chicago, Ill. Axle and differential lock. 2,638,797, May 19.

Grossglockner-Hochalpenstrassen Aktiengesellschaft, assignee: *See*—
Wallack, Franz F.

Groves, David M., Knoxville, Tenn. Apparatus for supporting and manipulating phonograph records. 2,639,155, May 19.

Grow, Harlow B., Linden, Mo. Centrifugal hand missile launcher. 2,638,708, May 19.

Gruber, Ottmar R., Fontanelle, Iowa. Trailer tongue and adjustable hitching stand therefor. 2,639,120, May 19.

Gruber, Willy, Munich, Germany. Repair patch for rubber articles. 2,638,955, May 19.

Gruenberg, Harry, assignor to National Research Council, Ottawa, Ontario, Canada. Microwave antenna. 2,639,383, May 19.

Gruenberg, Leo, and B. Fletcher, New York, N. Y. Baby panty structure or the like. 2,638,900, May 19.

Grumbache, Edward S., Paris, Ill., assignor to Electrographic Corporatioo, New York, N. Y. Trucky body platform. 2,639,187, May 19.

Gulf Oil Corporation, assignee: *See*—
McAfee, Jerry.

Gunther, Roland E., Oceanside, N. Y. Combination receptacle closure and dispensing device. 2,638,613, May 19.

Gurin, Emanuel, and K. Fox, assignors to Rapid Roller Company, Chicago, Ill. Liner for rubber sheeting. 2,639,249, May 19.

Gustafson, Bernard A., Kewanee, and J. H. Wahlbeck, Kankakee, Ill. Roll holder. 2,639,104, May 19.

Gutman, Louis, Whalom, assignor to Independent Lock Company, Fitchburg, Mass. Hotel lock. 2,638,770, May 19.

Gutterman, Robert P., Silver Spring, Md., assignor to Engineering Research Associates, Inc., St. Paul, Minn. Variable high-voltage electrical condenser. 2,639,315, May 19.

Haas, Harold G., Belleville, assignor to Bendix Aviation Corporation, Teterboro, N. J. Frequency regulator. 2,639,413, May 19.

Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of unsaturated aldehydes. 2,639,295, May 19.

Hahn, Frederick, San Francisco, Calif., assignor to Mergenthaler Linotype Company. Typographical distributing machine. 2,639,026, May 19.

Hair, Richard T.: *See*—
Ball, Charles F., and Hair.

Hair, Richard T., Franklin, Pa., assignor to Joy Manufacturing Company. Reel drive and control mechanism. 2,639,101, May 19.

Hall Brothers Incorporated, assignee: *See*—
Gadberry, Howard M., and Peterson.

Hall, Charles T., Deptford, London, assignor to Molins Machine Company Limited, London, England. Mouthpiece for machines for packing cigarettes and like articles. 2,639,071, May 19.

Hall, Glen R., Uhrichsville, Ohio. Traffic counter. 2,639,093, May 19.

Hall, Preston M., Warren, Ohio. Tool trimming device. 2,638,817, May 19.

Hall, Stanley A.: *See*—
Feeney, Thomas A., and Hall.

Hallden, Frederick G., Bellerose, N. Y., and D. M. Zabriskie, Northvale, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Multistylus facsimile machine. 2,639,211, May 19.

Halley, Angus M., Moseley, Birmingham, England. Rotary photogravure printing machine. 2,638,843, May 19.

Halley, Angus M., Moseley, Birmingham, England. Rotary photogravure printing apparatus. 2,638,844, May 19.

Hammond, Dale V., Pittsburg, Kans., T. R. Shaw, and G. O. Miller, Bartlesville, Okla., assignors to Phillips Petroleum Company. Furnace damper control. 2,638,892, May 19.

Hampton, Leon N., Pleasantville, and M. Salzer, Great Neck, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Flexible card feed. 2,639,149, May 19.

Hanscom, Harris F., Barrington, assignor to Ajax Pickers, Inc., Narragansett, R. I. Dry picker for poultry. 2,638,623, May 19.

Hanzlik, Jay J.: *See*—
Krampe, Paul T., and Hanzlik.

Harber, Blair F., Fort Erie, Ontario, Canada. Tubular chair construction. 2,638,970, May 19.

Hardwick, Michael, Independence, Mo. Slide-on welt drapery hanger. 2,638,977, May 19.

Hardwick Stove Company, Incorporated, assignee: *See*—
Corn, James F., Jr.

Hare, Donald G. C., Clemson, S. C., assignor to Deering Milliken Research Trust, New York, N. Y. Stretch breaking apparatus and method. 2,638,634, May 19.

Harris, Donald B., assignor to Collins Radio Company, Cedar Rapids, Iowa. Multichannel telemetric system. 2,639,410, May 19.

Harris, Donald B., assignor to Collins Radio Company, Cedar Rapids, Iowa. Forward radar echo-ranging method and system. 2,639,422, May 19.

Harris, John L., Whitefish Bay, Wis. Control device. 2,638,979, May 19.

Harris, Lewis S., Alta Loma, Tex. Nail holding and positioning device. 2,638,591, May 19.

Harris, Walter B.: *See*—
Thompson, Donald N., and Harris.

Harry, William R., Hartland, Wis., assignor to N. T. Kyle, Commutator, armature, and making the same. 2,639,306, May 19.

Hart-Carter Company, assignee: *See*—
Long, Arthur R.

Hartwell Aviation Supply Company, assignee: *See*—
Hogan, John E.

Hartwell, Clark, assignee: *See*—
Hogan, John E.

Hartwell, Eleanor M., assignee: *See*—
Hogan, John E.

Hartwig, Edward C., Tonawanda, and R. F. Barrell, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Timer for welding systems. 2,639,361, May 19.

Harvey, Robert L., Princeton, N. J., assignor to Radio Corporation of America. Tuned inductive coupling system. 2,639,324, May 19.

Harvey, Valentine P., assignor to Molins Machine Company Limited, Deptford, London, England. Method of and apparatus for sealing wrappers. 2,638,724, May 19.

Hatfield, Charles W., St. Louis, Mo., assignor to Standard Manifold Company. Carbon holder for continuous-form stationery. 2,639,018, May 19.

Haythornthwaite, James J., and V. G. Pinner, Accrington, assignors to T. M. M. (Research) Limited, Rossendale, England. Textile spinning, doubling, and twisting. 2,638,733, May 19.

Hazelton, Charles L., North Woodstock, Conn., assignor to American Optical Company, Southbridge, Mass. Filter testing device. 2,638,688, May 19.

Hazlett, Frank P., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Purification of aromatic hydrocarbons. 2,639,304, May 19.

Head, James D., assignor to The Dow Chemical Company, Midland, Mich. Deesterification of aromatic compounds. 2,639,298, May 19.

Heere, Peter N., South Plainfield, N. J. Apparatus for equalizing distribution in packed columns. 2,639,130, May 19.

Heinrich, Robert C., Racine, Wis. Actuating means for advancing and locking jaws of vises and like fixtures. 2,638,804, May 19.

Heintz, James C., deceased, Lakewood, Ohio; The Cleveland Trust Company, executor of the said James C. Heintz. Tire mold. 2,638,629, May 19.

Heiss, Herbert L., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Treating dry, hydrophilic protective colloids. 2,639,268, May 19.

Heller, Gerald S., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Ultrahigh-frequency cavity resonator. 2,639,327, May 19.

Heltzel, Herbert, assignee: *See*—
Brumbaugh, Harold C.

Henn, Richard W., assignor to Eastman Kodak Company, Rochester, N. Y. Noncaking sodium and potassium hydroxide for photographic developer powders. 2,639,221, May 19.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway axle box lubricator. 2,639,200, May 19.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway journal lubricator pump. 2,639,201, May 19.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway axle journal lubricator. 2,639,202, May 19.

Hennessy Lubricator Company, Inc., assignee: *See*—
Hennessy, James J.

Henry, Arthur L., Fort Worth, Tex. Fan hub. 2,638,761, May 19.

Henry, John M., assignee: *See*—
Sparks, Warren A.

Hercules Powder Company, assignee: *See*—
Elliott, Edwin S.
Gould, Charles W.
Shapleigh, James H.

Herlin, Melvin A.: *See*—
Everhart, Edgar, Herlin, A. G. and W. V. Smith.

Herman, Elvin E.: *See*—
Russell, James L., and Herman.

Hervert, George L.: *See*—
Linn, Carl B., Hervert.

Hervey, Laurence R. B.: *See*—
Stott, Louis L., and Hervey.

Hess, Frederic O., assignor to Selas Corporation of America, Philadelphia, Pa. Apparatus for heat treatment of fluent substances. 2,638,879, May 19.

Hettinger, Sidney V., Jr., Westchester, assignor to Borg-Warner Corporation, Chicago, Ill. Transmission brake servomotor. 2,638,750, May 19.

Hiatt, William C., and W. B. Cheney, New Haven, Ind., assignors to International Harvester Company. Quench tank for heat-treating processes. 2,638,909, May 19.

Hickes, Willis F.: *See*—
Bragg, David K., Hickes, and Neuman.

Hickok Manufacturing Company, Inc., assignee: *See*—
Meeker, William H.

Higley, Frank R., Cleveland Heights, Ohio. Chromatic aerial top. 2,638,703, May 19.

Higley, Frank R., Cleveland Heights, Ohio. Chromatic aerial top. 2,638,704, May 19.

Hillman, Conway D.: *See*—
Keuffel, Carl W., Hillman, Baker, and Geier.

Hilpman, Paul, Garden City, N. Y., assignor to Mergenthaler Linotype Company. Mold disk driving mechanism for typographical casting machines. 2,638,792, May 19.

Hinderer, Hermann: *See*—
Jacobi, Werner, Hinderer, and Buchta.

Hindle, Thomas, Blackburn, England. Loom temple. 2,638,938, May 19.

Hindle, Thomas, Blackburn, England. Loom for weaving. 2,638,941, May 19.

Hindle, Thomas, Blackburn, England. Weft detector and stop motion for weaving looms. 2,638,942, May 19.

Hinerfeld, Irving, New York, N. Y. Means for granulating plastic materials. 2,639,096, May 19.

Hirsch, Theodore, Detroit, Mich. Watch wristband. 2,639,067, May 19.

Hoag, Marion R., Chicago, Ill. Picture hanging bracket. 2,639,109, May 19.

Hodge, Arthur, J. G. N. Drewitt and J. Downing, Spondon, near Derby, England, assignors to British Celanese Limited. Manufacture of carboxymethyl cellulose. 2,639,281, May 19.

Hoek, Leo A., Los Angeles, Calif. Cutlery sharpener. 2,638,720, May 19.

Hoffmann, George A., Jr., Richmond, Va. Palletizing support. 2,639,050, May 19.

Hogan, John E., assignor to C. and E. M. Hartwell, copartners doing business as Hartwell Aviation Supply Company, Los Angeles, Calif. Flush latch. 2,639,178, May 19.

Hogard, Rufus W., Kansas City, Kans., assignor to Phillips Petroleum Company. Spring closed pivoted gate liquid loading valve. 2,639,117, May 19.

Hogeman, Hans: *See*—
Humber, John N., Hogeman, and Burman.

Holbrook, Francis C., Brooklyn, N. Y. Knockdown stool-easel. 2,638,702, May 19.

Holford, Frank L., Towson, Md., assignor to The Black & Decker Manufacturing Company. Strain measuring circuit. 2,638,780, May 19.

Hollmann, Hans E., Oxnard, Calif. Electrical device and preparation. 2,639,380, May 19.

Hooper, Leon T.: *See*—
Forse, Harry D., Thompson, and Hooper.

Hopkins, Horace E., Jeffersonville, Ind. Oil burner and support therefor. 2,638,890, May 19.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Diaphragm control for press roll assemblies. 2,638,819, May 19.

Houdry Process Corporation, assignee: *See*—
Bland, Rophie E.

Howard, Donald A., Worcester, and W. N. Matson, Fitchburg, Mass. Tensioning device for cables, wires, etc. 2,638,648, May 19.

Howard, Donald A., Worcester, and W. N. Matson, Fitchburg, Mass. Wheel block and chock. 2,639,008, May 19.

Howell, Hugh A., Valparaiso, Ind., and E. B. Offutt, Kansas City, Mo., assignors to The Indiana Steel Products Company, Chicago, Ill. Magnetic recorder. 2,639,333, May 19.

Hruby, John O., Jr., Glendale, Calif. Sprinkler head and nozzle. 2,639,191, May 19.

Hubbard, Frank H., assignor to Thomas L. Green & Company, Inc., Indianapolis, Ind. Mounting for pastry strip cutter wheels. 2,638,856, May 19.

Hudspeth, Clark, Fowler, Calif. Wheel-changing tool. 2,639,121, May 19.

Hughes, F. A., & Company Limited, assignee: *See*—
Simcox, Horace J.

Hull, Richard L., Davenport, Iowa, assignor to American Machine and Metals, Inc., New York, N. Y. Damper for poultry house ventilators. 2,638,836, May 19.

Humber, John N., North Wilbraham, H. Hogeman, Longmeadow, and P. G. Burman, assignors to American Hosch Corporation, Springfield, Mass. Filtering apparatus. 2,639,036, May 19.

Humphreys & Glasgow Limited, assignee: *See*—
Williams, Norman H.

Hunt, Lloyd F., Glendale, Calif. Oil-filled strain insulator for damping line vibration. 2,639,310, May 19.

Hurter, Alfred T., and A. C. Attendu, Montreal, Quebec, assignors to Stadler, Hurter & Company, West Montreal, Quebec, Canada. Paper roll wrapping machine. 2,638,725, May 19.

Hurtig, Saul: *See*—
Janovsky, Rudolph, and Hurtig.

Illinois Tool Works, assignee: *See*—
Austin, Leonard E.

Independent Lock Company, assignee: *See*—
Gutman, Louis.

Indiana Steel Products Company, The, assignee: *See*—
Howell, Hugh A., and Offutt.

Ingwersen, Richard C., assignor to Mechanical Products, Inc., Jackson, Mich. Circuit breaker with spark sealing casing construction. 2,639,348, May 19.

Ingwersen, Richard C., assignor to Mechanical Products, Inc., Jackson, Mich. Thermal latch circuit breaker with screw adjustment for latches. 2,639,349, May 19.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Leonard, Byron H., Jr.

International Harvester Company, assignee: *See*—
Borgerd, William F.
Hiatt, William C., and Cheney.
Sewelin, Ernest R.

Interstate Aircraft and Engineering Corp., assignee: *See*—
Miller, Leslie L., and Ryden.

Intertype Corporation, assignee: *See*—
Freund, Herman R.

Ipsen, Harold N., Rockford, Ill. Conveyer apparatus for heat-treating metal parts. 2,639,047, May 19.

Iredell, Robert, Jr., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Antivibration mounting. 2,639,115, May 19.

Ireland, John C.: *See*—
Bellaire, Guy F., and Ireland.

Isenhour, Russell R., Geneva, N. Y. Commodity display rack. 2,638,692, May 19.

Jackson, John M., Eastcote, England. Remote control toy vehicle. 2,638,712, May 19.

Jacobi, Werner, Erlangen, H. Hinderer, Marloffstein bei Erlangen, and K. Buchta, Karlsruhe, assignors to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany. Electronic tuning or indicating tube. 2,639,398, May 19.

Jacobson, Edwin B., Grand Rapids, Mich., assignor to Crampton Manufacturing Company. Latch mechanism. 2,639,182, May 19.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Control. 2,639,395, May 19.

Janovsky, Rudolph, Berwyn, and S. Hurtig, Chicago, Ill. Visible index unit. 2,638,903, May 19.

Jansson, Gustav E., North Quincy, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circuit breaker with arc chute short circuiting sections of the arc. 2,639,353, May 19.

Jaros, Stanley E.: *See*—
Vickers, Herbert H., and Jaros.

Jarvis, George A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,639,382, May 19.

Johnson, Charles R., Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn. Nonwoven soft-surface floor covering and method and apparatus for producing the same. 2,638,939, May 19.

Johnson, Douglas, Ridley Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shaft seal apparatus. 2,639,171, May 19.

Johnson, Edward H., assignor to The Keelavite Company Limited, Coventry, England. Hydraulic pump and motor. 2,638,848, May 19.

Johnson, Leonard G., Fergus Falls, Minn. Hem guide. 2,638,672, May 19.

Johnson, Merriam E., assignor to Eastman Kodak Company, Rochester, N. Y. Vacuum pump. 2,639,085, May 19.

Johnson, Orvin S., El Segundo, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Anatomical knee. 2,638,605, May 19.

Johnson, Walton A., Elberton, Ga. Syringe cleaner. 2,638,612, May 19.

Johnson, S. C., & Son, Inc., assignee: *See*—
Heiss, Herbert L.

Johnston, William R., Bronxville, I. M. Reich, New York, and G. E. Miller, Bronx, assignors to Standard Brands Incorporated, New York, N. Y. Tea extraction. 2,639,237, May 19.

Joncas, Phillip A., Hollywood, Calif. Rocking chair. 2,638,968, May 19.

Jones, Frank A., Bristol, Tenn., assignor, by mesne assignments, to Enterprise Wheel & Car Corporation, Bristol, Va. Trailer truck tandem axle spring suspension. 2,639,166, May 19.

Jones & Laughlin Steel Corporation, assignee: *See*—
Hazlett, Frank P.

Jones, Marvin R., assignor to Oil Center Tool Company, Houston, Tex. Well head. 2,639,169, May 19.

Jordan, Jacob, assignor to Shenango Pottery Company, New Castle, Pa. Automatic ware pressing machine. 2,638,654, May 19.

Jorgensen, David F., Altadena, Calif. Roller device for moving heavy objects. 2,639,164, May 19.

Joslyn Mfg. & Supply Co., assignee: *See*—
Yonkers, Edward H.

Joy Manufacturing Company, assignee: *See*—
Ball, Charles F.
Ball, Charles F., and Hair.
Goede, Charles F.
Goodrich, Ross H.
Hair, Richard T.
Mixen, Walter.
Paget, Win W.
Vanderzee, Harry H.
Woolf, James W.

Jukkola, Walfred W., Westport, assignor to The Dorr Company, Stamford, Conn. Heat-treating combustible solids. 2,638,684, May 19.

Kalart Company Inc., The, assignee: *See*—
Schwartz, Morris, and Castedello.

Karlen, Harvey R., assignor to Cory Corporation, Chicago, Ill. Receptacle filling and liquid level control system. 2,639,078, May 19.

Karpeles, Mark A., Tarrytown, N. Y., assignor to General Precision Laboratory Incorporated. Noise compressor. 2,639,386, May 19.

Kaufman, Samuel M., assignee: *See*—
Ziska, Adam.

Kawneer Company, The, assignee: *See*—
Peterson, Victor E.

Kaye, James W., Montclair, assignor to Kaye & MacDonald, Inc., West Orange, N. J. In-line steam trap. 2,638,913, May 19.

Kaye & MacDonald, Inc., assignee: *See*—
Kaye, James W.

Keadle, James R., Alderson, W. Va. Slingshot gun. 2,638,885, May 19.

Kearney, Eugene D., Rochester, N. Y. Door brake. 2,638,619, May 19.

Kearns, H. W., & Co. Limited, assignee: *See*—
Kearns, Henry W. L.

Kearns, Henry W. L., Altrincham, assignor to H. W. Kearns & Co. Limited, Broadheath, England. Control of electrically effected adjustments of horizontal boring machines. 2,639,412, May 19.

Keelavite Company Limited, The, assignee: *See*—
Johnson, Edward H.

Kelzer, Eugene O.: *See*—
Donley, Hugh L., and Kelzer.

Kelley, Oliver K., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Fluid control for rotary turbine type hydraulic torque converters. 2,638,746, May 19.

Kember, Federico C., Buenos Aires, Argentina. Wheel emergency equipment. 2,638,997, May 19.

Kendick Manufacturing Company, Inc., assignee: *See*—
Bugg, Kenly C.

Kennedy, John G., Mason, and F. W. Bernhart, Holt, Mich., assignors, by mesne assignements, to American Home Products Corporation, New York, N. Y. Casein-lactic-acid composition. 2,639,235, May 19.

Kennedy, Robert M., Newtown Square, and A. Schneider, assignors to Sun Oil Company, Philadelphia, Pa. Refining oils. 2,639,260, May 19.

Kennedy, Robert M., Newtown Square, and A. Schneider, assignors to Sun Oil Company, Philadelphia, Pa. Hydrocarbon process. 2,639,261, May 19.

Kennedy, Robert M., Newtown Square, and A. Schneider, assignors to Sun Oil Company, Philadelphia, Pa. Refining oils. 2,639,262, May 19.

Kennon, Woodrow A., Birmingham, Ala. Indoor marble playing ring. 2,639,151, May 19.

Kerlin, John W., Teaneck, N. J., assignor to General Foods Corporation, New York, N. Y. Apparatus for applying caps to containers. 2,639,075, May 19.

Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery and Chemical Corportion, San Jose, Calif. Apparatus for filling containers with moist granular material. 2,639,076, May 19.

Kerwin, Daniel G., Chicago, Ill. Insulating flexible splicer core for plural cable joints. 2,639,312, May 19.

Kesselring, Fritz, Zollikon, Zurich, Switzerland. Current limiting apparatus. 2,639,357, May 19.

Keuffel, Carl W., Bernardsville, and A. L. Baker, Jersey City, assignors to Keuffel & Esser Company, Hoboken, N. J. Drafting machine. 2,638,675, May 19.

Keuffel, Carl W., Bernardsville, C. D. Hillman, East Orange, A. L. Baker, Jersey City, and G. Geier, Ridgefield, assignors to Keuffel & Esser Company, Hoboken, N. J. Reflecting telescope. 2,638,814, May 19.

Keuffel & Esser Company, assignee: *See*—
Keuffel, Carl W., and Baker.
Keuffel, Carl W., Hillman, Baker, and Geier.
Patroslo, William.

Kiebler, Le Roy A., De Witt, D. D. Aldrich, and D. W. Weller, Lansing, Mich. Vertically adjustable mount for outboard motors. 2,638,863, May 19.

Kiliens, Clyde, assignee: *See*—
Williams, Moses M.

Kindt-Collins Company, The, assignee: *See*—
Rimmel, Ira A.

King, Manley E., Springville, N. Y. Differential drive mechanism. 2,638,795, May 19.

Kinley, John C.: *See*—
Kinley, Myron M. and J. C.

Kinley, Myron M. and J. C., Houston, Tex. Tubing and casing caliper. 2,638,681, May 19.

Kinney, J. Warren, Jr., assignee: *See*—
Kinney, John W., Jr., and Tomarin.

Kinney, John W., Jr., and H. A. Tomarin, Cincinnati, Ohio, said Tomarin assignor to J. Warren Kinney, Jr. Garment hanger. 2,639,066, May 19.

Kinsinger, Andrew S., Gordonville, Pa. Structure for mounting excavating and pipe and cable laying means on tractors. 2,638,832, May 19.

Kinzelman, Joseph, Northbrook, and F. A. Anetsberger, Chicago, assignors to Anetsberger Bros., Inc., Northbrook, Ill. Doughnut handling apparatus. 2,639,040, May 19.

Kirkham, Hall, Cleveland, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y. Cylinder bearing and packing. 2,639,198, May 19.

Klaasen, Ralph J., Lompoc, and E. M. Olsen, Avenal, Calif. Casing perforator. 2,638,801, May 19.

Klein, Norman E., Stamford, Conn., assignor to Deering Milliken Research Trust, New York, N. Y. Control system. 2,638,731, May 19.

Kleinhans, Arthur B., deceased, Easton, Pa., M. B. Kleinhans, executrix of said A. B. Kleinhans, assignor to Lord & Burnham Division of Burnham Corporation, Irvington, N. Y. Greenhouse construction. 2,639,009, May 19.

Kleinhans, Millicent B., executrix: *See*—
Kleinhans, Arthur B.

Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Refrigerant plate. 2,638,754, May 19.

Klinkslek, Karl W., Richmond Heights, assignor to Wagner Electric Corporation, St. Louis, Mo. Commutator forming and assembling machine. 2,638,661, May 19.

Knaust, Paul: *See*—
Schick, Frederick A., and Knaust.

Kneer, Paul, Monica, Ill. Conveyer. 2,638,024, May 19.

Knoblock, Frederick D., Birmingham, assignor to Patent Developers, Inc., Detroit, Mich. Differential mechanism. 2,638,794, May 19.

Koenig, Robert J.: *See*—
Cesaro, Richard S., and Koenig.

Koolstra, Lambert F.: *See*—
Brister, Paul M., and Koolstra.

Koppers Company, Inc., assignee: *See*—
Pfann, Harry F.

Kracklauer, Aloysius C., Mundelein, Ill. Production of filter units for a filter apparatus. 2,639,251, May 19.

Krakenberg, Charles G., assignor to Checkmaster Systems, Inc., New York, N. Y. Book and leaf holding device for printing machines. 2,638,846, May 19.

Krampe, Paul T., Sherman Oaks, and J. J. Hanzlik, Los Angeles, Calif.; said Hanzlik assignor to said Krampe. Portable steam cleaner. 2,639,365, May 19.

Kriz, Stanley E., Hopkins, Minn. Trash can holder. 2,639,113, May 19.

Kropp Forge Company, assignee: *See*—
Kropp, Roy A.

Kropp, Roy A., River Forest, assignor to Kropp Forge Company, Cicero, Ill. Soil conditioner. 2,638,830, May 19.

Krueger, Max E., assignee: *See*—
Brumbaugh, Harold C.

Kump, Ernest J., Jr., Atherton, Calif. Building frame construction. 2,638,637, May 19.

Kuster, Otto R.: *See*—
Talmey, Paul, and Kuster.

Kwasniewski, George A., Moundview Township, Ramsey County, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Selector switch. 2,639,338, May 19.

Kyle, N. T., assignee: *See*—
Harry, William it.

Laclede Steel Company, assignee: *See*—
Weber, Adolph C.

Lafferty, James M., Schenectady, N. Y., assignor to General Electric Company. Electron emitter. 2,639,399, May 19.

Lamb, Willis E., Jr., New York, N. Y., assignor to United States of America as represented by the Secretary of War. Closed end magnetron. 2,639,407, May 19.

Lambert, Henri J. M., Sevres, and G. P. Mongin, St. Gratien, France. Sliding shelf or drawer support. 2,639,042, May 19.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic product for forming a transfer image. 2,639,233, May 19.

Landis Tool Company, assignee: *See*—
Balsiger, Harold E., and Price.

Landon, Richard W.: *See*—
Talmey, Paul, and Landon.

Landsverk, Ole G., Mount Healthy, Ohio. Pocket ionization chamber. 2,639,389, May 19.

Langston, Samuel M., Co., assignee: *See*—
Nitchie, Charles D.

Larkin, George R., Dayton, Ohio. Instrument vibrating device. 2,638,788, May 19.

Larson, Otto C., Sr., Brooklyn, N. Y. Reuseable plug fuse. 2,639,351, May 19.

Lausch, Paul, Richmond Hill, N. Y. Removable cutter blade for carpenters' planes. 2,638,947, May 19.

Leach, Sam L., Louisville, Ky. True air speed indicator. 2,638,782, May 19.

Leavitt, Roger P., and W. M. White, assignors to Eastman Kodak Company, Rochester, N. Y. Printer platen construction. 2,638,827, May 19.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Fluid distributing apparatus. 2,638,912, May 19.

Leeds and Northrup Company, assignee: *See*—
Williams, Albert J., Jr.

Lefebre, Maurice, Detroit, Mich. Fuel and air mixer for use in conjunction with a carburetor. 2,639,230, May 19.

Leffer, Frederick W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Distilling solid hydrocarbonaceous material. 2,639,263, May 19.

Legge, Walter G., Brooklyn, N. Y. Attachment for fastening articles to brushes, brooms, and the like. 2,638,618, May 19.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Wehrenfennig, Hugo, and Leitz.

Leitz, Ludwig: *See*—
Wehrenfennig, Hugo, and Leitz.

Lemos, Albert, Jr., Hinsdale, and R. Cunningham, Jr., Downers Grove, assignors to Vapor Heating Corporation, Chicago, Ill. Water heater having extensive heat transfer surfaces. 2,638,878, May 19.

Leonard, Byron H., Jr., St. Louis, Mo., assignor to the United States of America as represented by the Secretary of the Interior. Floating connection. 2,639,172, May 19.

Levitt, Percy B., Millburn, and J. D. Morgan, South Orange, N. J., assignors, by mesne assignments, to Cities Service Research and Development Company, New York, N. Y. Rate of rise-dive indicator. 2,638,786, May 19.

Lewis Engineering & Manufacturing Company, The, assignee: *See*—
Steede, Otho G.

Lewis, Willard D., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hybrid ring. 2,639,325, May 19.

Lewyt Corporation, assignee: *See*—
Meyerhoefer, Carl E.

Lincoln Engineering Company, assignee: *See*—
Fox, Alexander P.

Lindstrom, John, Montclair, assignor to The Viking Tool & Machine Corporation, Belleville, N. J. Weighing meter. 2,638,865, May 19.

Linn, Carl B., Riverside, and G. L. Hervert, Downers Grove, assignors to Universal Oil Products Company, Chicago, Ill. Production of alkyl aromatic hydrocarbons utilizing a common reagent as aromatic extractant and alkylation catalyst. 2,639,303, May 19.

Liquid Carbonic Corporation, The, assignee: *See*—
Yuza, Joseph J.

Lohl, Frederick, Middleboro, Mass. Elastically sealed closure for containers. 2,639,058, May 19.

Lockheed Aircraft Corporation, assignee: *See*—
Greenwald, Harold A.
Price, Nathan C.
Rothwell, Gordon P.
Simon, Eli, Thomas, and Burkart.

Long, Arthur R., New Holstein, Wis., assignor to Hart-Carter Company, Peoria, Ill. Clutch and throttle control for outboard motors. 2,638,862, May 19.

Long, Charles A., assignor to Struthers Wells Corporation, Titusville, Pa. Closure and operating means therefor. 2,639,144, May 19.

Long, Martin L., Washington, D. C., assignor to the United States of America as represented by the Postmaster General. Carbon paper remover. 2,639,145, May 19.

Lord & Burnham Division of Burnham Corporation, assignee: *See*—
Kleinhans, Arthur B.

Lounsbery, Marian S.: *See*—
Mench, John W., and Lounsbery.

Lowell Specialty Company, assignee: *See*—
Fletcher, Lynn, and Dicklson.

Loyola University Foundation, assignee: *See*—
Russell, Fred J.

Luby, Henry N., and C. A. Wefing, Denver, Colo. Tool tray for vehicle bodies or the like. 2,639,068, May 19.

Lucas, Dr., & Co., assignee: *See*—
Gräbner, Willi.

Lulpersbek, Frank, New York, N. Y. Flowerpot. 2,638,716, May 19.

Lundquist, Wilton G., Hohokus, W. T. Stark, Pompton Lakes, and W. C. Schaffer, Fairlawn, N. J., assignors to Curtiss-Wright Corporation. Gas turbine power control. 2,638,992, May 19.

MBO Corporation, assignee: *See*—
Mitchell, Wallace F.

Macdonald, John R., Fort Dodge, Iowa. Livestock pen layout. 2,638,870, May 19.

MacDonald, Raymore D., La Grange, assignor to Athey Products Corporation, Chicago, Ill. Power actuated conveyer type loader. 2,639,022, May 19.

MacIsaac, John T., Jr.: *See*—
Tuttle, Richard H., MacIsaac, and Sturtevant.

Mackechnie, James G., Jr., Springfield, Mass. Ticket printing and feeding apparatus for wire stitcher machines. 2,638,822, May 19.

MacKenzie, Frederick J., Trenton, N. J. Pump. 2,639,084, May 19.

Mackrell, James J.: *See*—
MacDonald, Frank H., Mackrell, Rado, and Brand.

Magnaflux Corporation, assignee: *See*—
Dunsheath, Thomas J.

Mahler, Joseph, Southport, Conn., assignor to American Optical Company, Southbridge, Mass. Reaction products of cupric chloride and amino hydroquinone ethers and process. 2,639,290, May 19.

Maidari, Donato, assignor to The De Martini Macaroni Co., Inc., Brooklyn, N. Y. Die for macaroni product extrusion. 2,638,855, May 19.

Mallery, Paul, Murray Hill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicator selecting and lock-in circuit. 2,639,415, May 19.

Mallinckrodt Chemical Works, assignee: *See*—
Mallinckrodt, Edward, Jr., and Ruehle.

Mallinckrodt, Edward, Jr., St. Louis, and A. E. Ruehle, Kirkwood, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Preservation of ether. 2,639,243, May 19.

Mallinckrodt, George E., St. Louis, Mo. Rotary expansion engine. 2,638,880, May 19.

Malmberg, Paul R.: *See*—
Frederick, Edward R., and Malmberg.

Mantell, Frank, Detroit, Mich. Dispensing apparatus for measuring and delivering a plurality of liquids. 2,639,060, May 19.

Marblehead Lime Company, assignee: *See*—
Tanski, Edwin S.

Marchus, Amos H., Oakland, Calif. Cleaning head for mops. 2,638,615, May 19.

Marshall Field and Company, assignee: *See*—
Tuttle, Richard H., MacIsaac, and Sturtevant.

Martin, Paul N., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Apparatus for effecting indication and signal controls by transient direct current. 2,639,370, May 19.

Maschinenfabrik Schweiter A. G., assignee: *See*—
Schweiter, Walter.

Masruch, Joseph J., Maplewood, and J. K. Elderkin, Montclair, N. J. Carbon arc lamp operation and arc intensity control. 2,639,400, May 19.

Mason, Max C., Bethesda, Md. Walking figure toy. 2,638,709, May 19.

Mataré, Herbert F., Vaucresson, assignor to Societe Anonyme dite: Compagnie des Freins & Signaux Westinghouse, Paris, France. Wide-band wavemeter. 2,639,388, May 19.

Matson, William N.: *See*—
Howard, Donald A., and Matson.

Mavity, Julian M., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of heterocyclic organic compounds. 2,639,286, May 19.

Maxson, William H., Jackson, Mich. Making warp bobbins. 2,638,664, May 19.

Mayo, Edward, and H. F. Goon, Greenville, Miss. Can opener. 2,638,666, May 19.

McAfee, Jerry, Oakmont, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Catalytic reactor. 2,639,224, May 19.

McAulty, David J., and H. E. G. Richards, London, and E. W. Clark, Lower Sydenham, assignors to Suchy Holdings Limited, London, England. Radar reflector. 2,639,426, May 19.

McBee, Earl T., assignor to Purdue Research Foundation, Lafayette, Ind. Halodiethylbenzenes. 2,639,299, May 19.

McBride, Eugene B., Philadelphia, Pa., assignor to Sloane-Blabon Corporation, Hutchinson Mills, N. J. Floor covering and felt base material. 2,638,638, May 19.

McCoy, Le Roy J., Jr., Richmond, Calif. Ice-cream scoop. 2,638,857, May 19.

McDonald, Frank H., Ilion, J. J. Mackrell, Brooklyn, N. Y., and K. P. Rado, Huntington, Conn., and J. R. Brand, Claymont, Del., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Checkering machine. 2,638,946, May 19.

McDuffie, Archie D., Berkley, and W. H. Smith, assignors to General Motors Corporation, Detroit, Mich. Force measuring apparatus. 2,638,781, May 19.

McGowan, Gaylon H., Fanwood, N. J., assignor to Standard Oil Development Company. Ratio drive for metering or proportioning pumps. 2,638,847, May 19.

McIntyre, Robert E., San Francisco, Calif. Window air filter. 2,639,004, May 19.

McKee, Chester W., and R. W. McKee, assignors to Teledetector, Inc., Chicago, Ill. Railroad fissure detector car. 2,639,316, May 19.

McKee Door Company, assignee: *See*—
Vaughn, Joseph J.

McKee, Richard W.: *See*—
McKee, Chester W., and R. W.

McKeever, Charles H.: *See*—
Freimiller, Louis R., and McKeever.

McNamee, Raymond W.: *See*—
Wellman, Richard H., and McNamee.

McNees, Sterling O.: *See*—
Clark, John W., and McNees.

McSkimmon, Donald, Cranston, R. I. Measuring instrument. 2,638,679, May 19.
Mechanical Products, Inc., assignee: *See*—
Ingwersen, Richard C.
Mechur, Berthold: *See*—
Riedler, Walter, and Mechur.
Meeker, William H., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Reversible front cuff link. 2,638,649, May 19.
Mench, John W., and M. S. Lounsbery, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing cellulose acetal derivatives. 2,639,280, May 19.
Méndez, Alfredo, Chciago, Ill. Cooling system and apparatus for motor vehicles. 2,638,752, May 19.
Menssen, Herman G., West Norwood, N. J. Food slicing machine. 2,638,950, May 19.
Menzies, Robert J., Detroit, Mich. Draft seal. 2,638,641, May 19.
Mergenthaler Linotype Company, assignee: *See*—
Hahn, Frederick.
Hlipman, Paul.
Turner, Ransom H.
Merritt, Norman A., Wilmington, N. C. Meat knife holder. 2,639,038, May 19.
Meschia, Carlo, Milan, Italy. Multiple disk friction clutch. 2,639,013, May 19.
Metzger, Henry L., Castleton-on-Hudson, N. Y. Article bodling insert for cartons. 2,639,081, May 19.
Meyer, Hans, Richmond, England. Means and method of marking textile articles. 2,639,255, May 19.
Meyer, Hans, Richmond, England. Marking textile articles. 2,639,256, May 19.
Meyerhoefer, Carl E., assignor to Lewyt Corporation, Brooklyn, N. Y. Vacuum cleaner. 2,639,001, May 19.
Michaelsen, Charles W.: *See*—
Michaelsen, William G. and C. W., Gerbode, and Dolan.
Michaelsen, William G. and C. W., W. H. Gerbode, and L. E. Dolan, assignors to Rockford Show Case & Fixture Co., Rockford, Ill. Display tray. 2,639,033, May 19.
Miller, Arthur E., Kenmore, assignor to The Scott Aviation Corporation, Lancaster, N. Y. Master cylinder with fluid-volume compensating valve in piston. 2,638,748, May 19.
Miller, Charles W., Sale, England, assignor to General Electric Company. Optical projection display system. 2,639,421, May 19.
Miller, Elmer P., Irvington, N. J. Viscosimeter. 2,638,778, May 19.
Miller, Glennard E.: *See*—
Johnston, William R., Reich, and Miller.
Miller, Guy O.: *See*—
Hammond, Dale V., Shaw, and Miller.
Miller, Leslie L., Inglewood, and H. S. Ryden, Redondo Beach, assignors to Interstate Aircraft and Engineering Corp., El Segundo, Calif. Tank type suction cleaner. 2,639,002, May 19.
Miller Pottery Engineering Company, assignee: *See*—
Wahl, Albert J.
Milligan, Charles L., San Fernando, Calif., and C. D. Swaim, Waterloo, Iowa. Trailer supporting and steering dolly and weight equalizer. 2,639,159, May 19.
Mills, John: *See*—
Blevins, Walter G., Sr., Coleman, and Mills.
Mills, Lindley E., Kalamazoo, Mich. Refrigeration using conjugate solutions. 2,638,760, May 19.
Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Mulcahy, Harry W.
Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Evans, Cyril G., and Baker.
Williams, Frederic C., and Moody.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Kwasniewski, George A.
Willis, Walter P.
Missouri Automatic Control Corporation, assignee: *See*—
Watson, Robert A.
Mitchell, Amos M., Pueblo, Colo. Cigarette holder. 2,638,904, May 19.
Mitchell, Wallace F., assignor to MBG Corporation, Chicago, Ill. Fluid coupling. 2,638,915, May 19.
Mizen, Walter, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Valve actuating mechanism. 2,638,926, May 19.
Moberg, Sigurd M., Pompton Plains, assignor to E. J. Brooks Company, Newark, N. J. Bag seal. 2,639,181, May 19.
Moerman, Nathan A., Jackson Heights, assignor to Potter Instrument Co., Inc., Great Neck, N. Y. Electronic pulse generator. 2,639,378, May 19.
Molins Machine Company Limited, assignee: *See*—
Hall, Charles T.
Harvey, Valentine P.
Molla, Charles P., New Hyde Park, assignor to Molla Incorporated, New York, N. Y. Barbecue device. 2,638,888, May 19.
Molla Incorporated, assignee: *See*—
Molla, Charles P.
Monahan, Thomas P., assignor to Utah Oil Refining Company, Salt Lake City, Utah. Helical spring valve. 2,638,925, May 19.
Mongin, Georges P.: *See*—
Lambert, Henri J. M., and Mongin.
Montalbano, Michael J., Jersey City, N. J. Sash fastening means. 2,639,176, May 19.
Moody, Norman F.: *See*—
Williams, Frederic G., and Moody.
Moore, Robert B., Evansville, Ind. Shoe squeak eliminator. 2,638,611, May 19.
Morey, Donald R., and W. R. White, assignors to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. 2,639,234, May 19.
Morgan, John D.: *See*—
Levitt, Percy B., and Morgan.
Morgan, John L. and W. J., Pennsauken, N. J., assignors to Perfection Plastic Engineering Corporation, Philadelphia, Pa. Automatic door actuator. 2,639,142, May 19.
Morgan, William J.: *See*—
Morgan, John L. and W. J.
Morin, Louis H., Bronx, N. Y. Low permeability separable fastener. 2,638,651, May 19.
Morren, Henri, Forest-Brussels, Belgium. Preparing monomethylpiperazines. 2,639,284, May 19.
Morris, William B., Fort Worth, Tex. Lever operated gun with vertically slidable breech block. 2,638,694, May 19.
Morrison, James, Seattle, Wash. Ash tray. 2,638,905, May 19.
Morton, Robert E.: *See*—
Goodhue, William V., and Morton.
Morton, Robert L., Jr., Clayton, and F. W. Bubb, Webster Groves, Mo. Amusement device. 2,638,907, May 19.
Motis, Gilbert M., Northridge, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Artificial arm with stepped-up wrist drive and automatic wrist lock. 2,638,604, May 19.
Motorola, Inc., assignee: *See*—
Budlane, Stanley J.
Mulcahy, Harry W., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway draft riggings. 2,639,044, May 19.
Mulholland, Frank J., Newburgh, N. Y. Antiskid device. 2,638,953, May 19.
Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Fluid and spring operated clutch. 2,639,014, May 19.
Muros, Joseph, Cambridge, Mass., assignor to The Gillette Company. Refill unit for blade magazines. 2,639,030, May 19.
Murphy, Frank M., Chicago, Ill. Testing device for irons. 2,638,775, May 19.
Murray, Richard P., Joplin, Mo. Dice shaking device. 2,639,153, May 19.
Nantt, John, Hebron, N. Dak. Gopher trap. 2,638,700, May 19.
Napier, D., & Son Limited, assignee: *See*—
Sammons, Herbert.
Nash-Kelvinator Corporation, assignee: *See*—
Doeg, Ralph W.
Nathan, Matthew L., Godalming, assignor to Power Jets (Research & Development) Limited, London, England. Gas turbine combustor having tangential air inlets for primary and secondary air. 2,638,745, May 19.
National Lock Co., assignee: *See*—
Burke, William O.
National Research Council, assignee: *See*—
Gruenberg, Harry.
National Union Radio Corporation, assignee: *See*—
Reeves, Dougal B.
Skellett, Albert M.
Nelson, John W. and J. B., Independence, Kans., assignors of one-third to J. W. Ashcraft. Tire valve stem protector. 2,638,956, May 19.
Nelson, Joel B.: *See*—
Nelson, John W. and J. B.
Nepera Chemical Co., Inc.: *See*—
Scudi, John V., and Anderson.
Neuman, Herbert A.: *See*—
Bragg, David K., Hickes, and Neuman.
Newhall, Benjamin G., Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del. Plate apparatus and press. 2,639,126, May 19.
New York Air Brake Company, The, assignee: *See*—
Kirkham, Hall.
Niagara Machine & Tool Works, assignee: *See*—
Munschauer, Frederick E.
Nichols, Nathaniel B.: *See*—
Griswold, Augustus W., and Nichols.
Nicolas, William A., Girard, Kans. Bag holder. 2,639,110, May 19.
Nielsen, Matthew J., Brookings, S. Dak. Tightening device for grain boxes and like structures. 2,638,047, May 19.
Niles-Bement-Pond Company, assignee: *See*—
Barr, John M.
Lee, Leighton, II.
Woodward, James S.
Nitchie, Charles D., Haddonfield, assignor to Samuel M. Langston Co., Camden, N. J. Machine for making corrugated paper. 2,638,962, May 19.
Nobles, Warren H., St. Paul, and A. R. Wylie, Minneapolis, Minn. Method and apparatus for forming cabinet shells. 2,638,860, May 19.

Norquist, Victor C., and H. S. Day, assignors to Butler Manufacturing Company, Kansas City, Mo. Corrugation crimping device. 2,638,958, May 19.
North American Rayon Corporation, assignee: *See*—
Gram, Carl F.
Northrop Aircraft, Inc., assignee: *See*—
Feeney, Thomas A., and Hall.
Feeney, Thomas A., and Vogel.
Johnson, Orvin S.
Motis, Gilbert M.
Nylund, Harry W.: *See*—
Babcock, Wallace C., and Nylund.
Nystrom, Karl T., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Car door lock. 2,639,180, May 19.
Obenchain, Leo B., Branford, Conn. Gas bottle rack for trailers. 2,639,208, May 19.
Offutt, Elmer B.: *See*—
Howell, Hugh A., and Offutt.
Ohio Ferro-Alloys Corporation, assignee: *See*—
Vignos, James C.
Ohio Injector Company, The, assignee: *See*—
Emig, Frank R.
Oil Center Tool Company, assignee: *See*—
Jones, Marvin R.
O'Keefe, Daniel P., Los Angeles, Calif. Vented guardrail for stoves. 2,638,893, May 19.
Oliver, Curtis S.: *See*—
Smith-Johannsen, Robert, and Oliver.
Olsen, Eugene M.: *See*—
Klaasen, Ralph J., and Olsen.
Olson, Curtis L., Alexandria, Va. Welding mask. 2,638,592, May 19.
Olson, Eric P., Oswego, assignor to The Diamond Match Company, New York, N. Y. Separating and packaging of book matches. 2,639,070, May 19.
Olson, Johan H., Larchmont, assignor to M. H. Treadwell Company, Inc., New York, N. Y. Articulated truck for railway cars. 2,639,173, May 19.
Olson, Raymond G., Niles, assignor of one-third to K. T. Snow, Oak Park, Ill. Building bracket. 2,638,643, May 19.
Olson, Walter J., Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y. Foundry device. 2,638,045, May 19.
Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Calling line identification apparatus. 2,639,330, May 19.
Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic telephone system. 2,639,331, May 19.
Oswald, Joseph H., South Euclid, Ohio. Window screen fitting. 2,638,622, May 19.
Overholt, Ray L., New Rochelle, assignor to United States Plywood Corporation, New York, N. Y. Dielectric material. 2,639,248, May 19.
Paget, Win W., Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Pilot controlled reversing valve mechanism. 2,638,923, May 19.
Pallet Devices, Inc., assignee: *See*—
Hudd, Larry J.
Palmer Electric & Manufacturing Co., The, assignee: *See*—
Coveney, James W.
Palmer, John H., Milford, Conn., assignor to General Electric Company. Automatic washing machine control. 2,638,706, May 19.
Pankuch, William J., and W. S. Gleeson, assignors to Thompson Products, Inc., Cleveland, Ohio. Temperature control of engine cooling. 2,638,881, May 19.
Park, Joseph K., and M. R. Powers, assignors to The Clemson Agricultural College of South Carolina, Clemson, S. C. Sweet potato digger. 2,638,727, May 19.
Parker Rust Proof Company, assignee: *See*—
Baxter, John E.
Parker, Samuel P., assignor to Callaway Mills Company, La Grange, Ga. Pile fabric loom. 2,638,934, May 19.
Parkinson, David B., Cleveland Heights, Ohio, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rotating-field pulse transmitter. 2,639,332, May 19.
Patent Developers, Inc., assignee: *See*—
Knoblock, Frederick D.
Patrol Valve Company, The, assignee: *See*—
Vizler, Leslie F.
Patrosio, William, Jersey City, assignor to Kenffel & Esser Company, Hoboken, N. J. Adjustable bearing for surveying instruments. 2,639,190, May 19.
Pearlstein, Joseph, Arlington, Va. Sifting and straining device. 2,639,035, May 19.
Penner, Sidney M., Bronx, assignor, by mesne assignments, to R. Tauber, Brooklyn, N. Y. Machine for binding books. 2,638,609, May 19.
Perfection Plastic Engineering Corporation, assignee: *See*—
Morgan, John L. and W. J.
Perkins, Rae C., Oswego, assignor to St. Regis Paper Company, New York, N. Y. Making matrices for molding rubber printing blocks. 2,638,845, May 19.
Perma-Fit Shoulder Pad Co., Inc., assignee: *See*—
Riedler, Walter, and Mechur.
Perma Realty Co., assignee: *See*—
Gabriel, Gustave O.
Perron, Emil E., Worcester, Mass. Roller drive chain. 2,638,790, May 19.
Perry, George W., Port Clinton, Ohio. Quick closing valve. 2,638,918, May 19.
Perry, Murle, Minneapolis, Minn. Stoma receiver. 2,638,898, May 19.
Peters, Melville F., East Orange, N. J. Fuel ignition control. 2,639,408, May 19.
Petersen, Gerald A., San Francisco, Calif. Pilot bit for earth augers. 2,639,122, May 19.
Peterson, Erik: *See*—
Gadberry, Howard M., and Peterson.
Peterson, Victor E., assignor to The Kawneer Company, Niles, Mich. Ceiling construction. 2,639,011, May 19.
Petrasy, Albert W., Stratford, Conn. Ornamental bird having rotatable wings. 2,638,705, May 19.
Petter, Noel A., Glendale, Calif. Multiple cell carton. 2,639,079, May 19.
Pfann, Harry F., assignor to Koppers Company, Inc., Pittsburgh, Pa. Thiocyanogen containing compositions. 2,639,267, May 19.
Pfann, Harry F., assignor to Koppers Company, Inc., Pittsburgh, Pa. Making thiocyanogen derivatives. 2,639,291, May 19.
Phelps, Malcolm T., assignor to Weber-Knapp Company, Jamestown, N. Y. Self-aligning, screw-threaded fastening device. 2,639,179, May 19.
Philco Corporation, assignee: *See*—
Bryan, James S.
Phillips Laboratories, Inc., assignee: *See*—
Rittner, Edmund S., and Fine.
Van Gessel, Karel M.
Phillips, John W., Osgodby, near Lincoln, England. Kite float for the head ropes of fishing nets. 2,638,695, May 19.
Phillips Petroleum Company, assignee: *See*—
Crouch, Willie W.
Crouch, Willie W., and Werkman.
Hammond, Dale V., Shaw, and Miller.
Hogard, Rufus W.
St. Clair, Theodore A.
Studebaker, Merton L., and Crouch.
Phillips, Virgel E.: *See*—
Frank, Edward J., and Phillips.
Picanol, Jaime, Zandberg, Zillebeke-lez-Ypres, Belgium. Weaving loom cloth beam support. 2,638,939, May 19.
Piezo Crystals Limited, assignee: *See*—
Birt, Arthur W., and Richardson.
Pike, Robert D., Greenwich, Conn. Production of sodium sesquicarbonate from crude trona. 2,639,217, May 19.
Planer, Vernon G.: *See*—
Haythornthwaite, James J., and Planer.
Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft sustaining rotor blade with airflow control. 2,638,990, May 19.
Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Control mechanism for jet driven aircraft sustaining rotor blades. 2,638,991, May 19.
Pittsburgh Plate Glass Company, assignee: *See*—
Vogel, Henry A.
Poitras, Edward J., Holliston, Mass. Flared exit phlebotomy needle. 2,638,897, May 19.
Polaroid Corporation, assignee: *See*—
Bachelder, Albert J., and Wolff.
Eloranta, Vaito K.
Fairbank, Murry N.
Land, Edwin H.
Polymer Corporation, The, assignee: *See*—
Stott, Louis L., and Hervey.
Stott, Louis L., and Shurr.
Pool, Edward A., New York, N. Y. Shopping establishment. 2,638,636, May 19.
Poor & Company, assignee: *See*—
Chester, Allan E.
Postmaster General, United States of America as represented by the, assignee: *See*—
Long, Martin L.
Potter, Charles A., Essex, Conn. Feed trough. 2,638,872, May 19.
Potter Instrument Co. Inc., assignee: *See*—
Moerman, Nathan A.
Power Jets (Research & Development) Limited, assignee: *See*—
Nathan, Matthew L.
Powers, Mitchell R.: *See*—
Park, Joseph K., and Powers.
Pratt, Verneur E., and G. F. Gray, Norwalk, Conn. Lens mounting and film support for microfilm apparatus. 2,638,812, May 19.
Prescott, Charles H., Jr., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Implement for use in chemical apparatus. 2,639,074, May 19.
Price-Driscoll Corporation, assignee: *See*—
Barth, Robert M.
Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Turbine power plant having auxiliary units. 2,638,744, May 19.
Price, Ralph E.: *See*—
Balsiger, Harold E., and Price.
Priebe, Mayo L., Rochester, Minn. Building suitable for use as tourist lodges and the like. 2,638,635, May 19.

Procos, Steve J., Chicago, Ill. Grapple holder. 2,639,158, May 19.

Pryne, Ralph, Pomona, Calif. Recessed lighting fixture with drop hinged cover. 2,639,368, May 19.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Candlin, James E., Jr.

Purdue Research Foundation, assignee: *See*—
McBee, Earl T.

Putman, Henry M., Jr., Champaign-Urbana, Ill. Axial flow gas turbine having reheating means and specially shaped rotor and stator blades to provide isothermal expansion. 2,638,741, May 19.

Putnam, John P.: *See*—
Reece, John B., and Putnam.

Quinn, Evan V., assignor to Unitel Textile Machine Corporation, Port Chester, N. Y. Steaming apparatus. 2,638,765, May 19.

Radio Corporation of America, assignee: *See*—
Colgan, Oliver E.
Donley, Hugh L., and Keizer.
Goodrich, Hunter C., Jr.
Harvey, Robert L.
Vilkomerson, Benjamin S.
Young, Charles J.

Rado, Kosta P.: *See*—
McDonald, Frank H., Mackrell, Rado, and Brand.

Raiteri, Stephen J., Stamford, Conn. Beverage urn. 2,638,839, May 19.

Rambo, Howard H., assignor to Schramm, Inc., West Chester, Pa. Control mechanism for engine driven compressors. 2,639,083, May 19.

Ramler, David A., Brookline, Mass. Locking bolt and actuating and anchor releasing means therefor. 2,638,772, May 19.

Ramsey, King, Odessa, Tex., assignor to The Geolograph Company, Inc., Oklahoma City, Okla. Apparatus for translating and plotting log charts from drilling time charts. 2,638,671, May 19.

Rapid Roller Company, assignee: *See*—
Gurin, Emanuel, and Fox.

Ratcliff, George R., London, England. Escapement-controlled movable doll eye. 2,638,710, May 19.

Rauhut, John R., Chicago, Ill. Air-conditioning and humidifying apparatus. 2,638,644, May 19.

Rayner, Robert C., Dayton, Ohio. Overload release coupling. 2,638,762, May 19.

Rea, Wilton T.: *See*—
Gardner, Leland A., and Rea.

Redlind, John O., Napa County, assignor of one-quarter to C. E. Bargewell, Gustine, Calif. Spring actuated wheel and track device. 2,639,152, May 19.

Reece Corporation, The, assignee: *See*—
Reece, John B., and Putnam.

Reece, John B., Dedham, and J. P. Putnam, assignors to The Reece Corporation, Boston, Mass. Magnetic compass. 2,638,683, May 19.

Reese, Thomas S., University Heights, assignor to The Di-Noc Company, Cleveland, Ohio. Melamine transfer. 2,639,253, May 19.

Reeves, Dougal B., Madison, assignor to National Union Radio Corporation, Orange, N. J. Ultrahigh-frequency amplifier. 2,639,335, May 19.

Reich, Ismar M.: *See*—
Johnston, William R., Reich, and Miller.

Reinhardt, Henry A., Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn. Apparatus for producing a nonwoven soft-surface floor covering. 2,638,960, May 19.

Reinhardt, Henry A., Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Company, Inc., Thompson, Conn. Nonwoven soft-surface floor covering and producing the same. 2,639,250, May 19.

Remington Arms Company, Inc., assignee: *See*—
McDonald, Frank H., Mackrell, Rado, and Brand.
Vordahl, Milton B., Grace, and Ecclestun.

Republic Patent Corporation, assignee: *See*—
Binks, Melvin J., and Samolis.

Reativo, Angelo, Jamaica Estates, N. Y. Adjustable stool. 2,638,969, May 19.

Retallack, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic message accounting system. 2,639,092, May 19.

Richards, Harold E. G.: *See*—
McAuley, David J., Richards, and Clark.

Richardson, Jack W.: *See*—
Birt, Arthur W., and Richardson.

Rickmeyer, Ernst W., Palatine, Ill. Electric switch. 2,639,344, May 19.

Riedler, Walter, and H. Mechur, assignors, by mesne assignments, to Perma-Fit Shoulder Pad Co., Inc., New York, N. Y. Shoulder pad. 2,638,603, May 19.

Rimmel, Ira A., Lakewood, assignor to The Kindt-Collins Company, Cleveland, Ohio. Mandrel. 2,638,722, May 19.

Ring, Douglas H., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic wave microwave frequency structure using hybrid junctions. 2,639,326, May 19.

Risser, Ivan H., Glenview, assignor to U. S. Bottlers Machinery Company, Chicago, Ill. Vacuum filling stem. 2,639,077, May 19.

Rittner, Edmund S., Peekskill, and S. Fine, New York, assignors to Phillips Laboratories, Inc., Irvington-on-Hudson, N. Y. Relative humidity measuring apparatus. 2,638,783, May 19.

Robertson, Alexander F., Charlottesville, Va., and J. R. Tallackson, Oakridge, Tenn. Recording decelerometer. 2,639,210, May 19.

Robotyper Corporation, assignee: *See*—
Carlson, George W.

Rockford Show Case & Fixture Co., assignee: *See*—
Michaelsen, William G. and C. W., and Gerbode and Dolan.

Rockwell, Edward A., Cleveland, Ohio. Pressure fluid operated pressure intensifier. 2,638,747, May 19.

Rockwell, Harvey W., Cedar Rapids, Iowa, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Hydraulic power steering mechanism. 2,638,998, May 19.

Roeber, Henry W., Emporium, Pa., assignor to Sylvania Electric Products Inc. Cup orienting device. 2,639,034, May 19.

Roediger, Joseph C., Brooklyn, N. Y., assignor to Standard Oil Development Company. Asphalt pavement. 2,638,823, May 19.

Rogers, John P., Liverpool, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Transmission. 2,638,791, May 19.

Rogers, William J.: *See*—
Wiltala, Edwin S., and Rogers.

Rohm & Haas Company, assignee: *See*—
Freimiller, Louis R., and McKeever.

Root, Andrew A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Molding of resin dispersions. 2,638,633, May 19.

Rosdahl, Karl-Gustaf, assignor to Aktiebolaget Ferrosan, Malmo, Sweden. Producing N-substituted derivatives of 4-amino-2-hydroxybenzoic acid. 2,639,294, May 19.

Ross, John A., Klamath Falls, Oreg. Iron shear and separator. 2,638,983, May 19.

Rothwell, Gordon P., La Crescenta, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Work holding and advancing device. 2,638,662, May 19.

Rowe, George E., Wethersfield, Conn., assignor to Emhart Manufacturing Company. Neck pin lubricating mechanism. 2,638,718, May 19.

Rowe, Raymond N., Plainville, Conn., assignor, by mesne assignments, to General Electric Company. Electric circuit breaker. 2,639,347, May 19.

Rubissow, George A., New York, N. Y. Centrifugal casting machine. 2,638,646, May 19.

Ruedemann, Dana W., Plainsboro, N. J. Self-feeder allo. 2,638,871, May 19.

Ruehle, Archie E.: *See*—
Mallinckrodt, Edward, Jr., and Ruehle.

Ruf, Hermann, Wanaque, N. J., assignor to Forstner Chain Corporation. End connection for bracelets and the like. 2,638,652, May 19.

Ruh, Robert P., and R. A. Davis, assignors to The Dow Chemical Company, Midland, Mich. Preparation of fluoromethanes. 2,639,300, May 19.

Ruh, Robert P., and Ralph A. Davis, assignors to The Dow Chemical Company, Midland, Mich. Preparation of bromofluoromethanes. 2,639,301, May 19.

Ruh, Robert P., and R. A. Davis, assignors to The Dow Chemical Company, Midland, Mich. Preparation of chlorobromodifluoromethane. 2,639,302, May 19.

Russell, Fred J., Beverly Hills, assignor, by mesne assignments, to Loyola University Foundation, Los Angeles, Calif. Marking tool for locating strike plates. 2,638,682, May 19.

Russell, James L., and E. E. Herman, Washington, D. C. Cathode-ray tube timing pulse generator for radar systems and the like. 2,639,425, May 19.

Russell, Kenneth F., assignor to H. H. Garner, Claremont, Calif. Assembling an air filter panel. 2,639,003, May 19.

Ruston & Hornsby Limited, assignee: *See*—
Feilden, Geoffrey B. R.
Feilden, Geoffrey B. R., and Wigg.

Ryden, Harold S.: *See*—
Miller, Leslie L., and Ryden.

Ryder, Elmer, Aurora, Ill. Carbon-free operation of internal-combustion engines. 2,638,882, May 19.

S. A. Luigi Rizzi & C., assignee: *See*—
Gianoglio, Ermanno.

Sabaton, Louis, Saint-Pierre-sous-Aubenas, France. Double twist throwing spindle device. 2,638,732, May 19.

Sadler, Francis A. D., assignor to Girling Limited, Birmingham, England. Means for setting or testing hydraulic shock absorbers. 2,638,777, May 19.

Sage, Luther W., Grundy, Va. Combination pressure and cost computing gauge attachment. 2,638,866, May 19.

St. Clair, Theodore A., South Euclid, Ohio, assignor to Phillips Petroleum Company. Automatic tank valve. 2,638,924, May 19.

St. Regis Paper Company, assignee: *See*—
Perkins, Rae C.

Salathiel, Richard A., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Sulfonated phenol formaldehyde condensation product and making same. 2,639,274, May 19.

Salter, Robert M., Jr., Santa Monica, Calif. Ramjet engine having inlet cone diffuser automatically adjustable as to length and cone angle. 2,638,738, May 19.

Salzer, Martin: *See*—
Hampton, Leon N., and Salzer.

Sammons, Herbert, Gerrards Cross, assignor to D. Napier & Son Limited, London, England. Internal-combustion turbine power plant. 2,638,740, May 19.

Samolis, Alphonse A.: *See*—
Binks, Melvin J., and Samolis.

Sanderson, Doris K., Rochester, N. Y. Collapsible scrub bucket. 2,638,952, May 19.

Sarnelle, Joseph, New York, N. Y. Hat blocking machine. 2,639,064, May 19.

Sasse, Richard C., Packanack Lake, N. J., assignor to Curtiss-Wright Corporation. Preloaded bearing with temperature compensation. 2,639,203, May 19.

Saurer, Curt, Detroit, Mich. Auxiliary wind deflector. 2,639,188, May 19.

Savage, Kenneth E., Fitchburg, Mass. Cover plate and toggle switch actuator. 2,639,356, May 19.

Sawyer, Frederick D., Wayne, assignor to Dearborn Motors Corporation, Detroit, Mich. Disk harrow hitch and angling means. 2,638,720, May 19.

Saxton, Millard F.: *See*—
Comey, Charles S., and Saxton.

Schafer, Curtiss R., Ridgefield, Conn. Alternating-current bridge. 2,639,411, May 19.

Schaffer, William C.: *See*—
Lundquist, Wilton G., Stark, and Schaffer.

Scheiwer, Albert T., Erie, Pa. Fueling device. 2,638,916, May 19.

Scherbatskoy, Serge A., Tulsa, Okla. Radiation detecting device. 2,639,390, May 19.

Schick, Frederick A., and P. Knaust, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Cartridge type seal. 2,639,170, May 19.

Schlidt, John, Baldwin, N. Y. Curl clip. 2,638,908, May 19.

Schlenker, Max E., Peru, Ill., assignor to General Time Corporation, New York, N. Y. Clock. 2,638,735, May 19.

Schmitt, Frank R., Queens Village, N. Y. Noncreeping metallic belt. 2,639,025, May 19.

Schneider, Abraham: *See*—
Kennedy, Robert M., and Schneider.

Schon, Leo, New York, N. Y. Collapsible carriage. 2,639,162, May 19.

Schramm, Inc., assignee: *See*—
Rambo, Howard H.

Schramm, Sylvester A., Short Hills, N. J. Tobacco appliance. 2,638,906, May 19.

Schroder, Charles, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Controlled noise-reduction means for typewriters. 2,639,020, May 19.

Schroeder, Herbert W., Palatine, Ill. Greenhouse bench structure. 2,638,715, May 19.

Schwartz, George S., Brownwood, Tex. Illuminable artificial bait and holder therefor. 2,638,697, May 19.

Schwartz, Morris, and W. Castedello, assignors to The Kalart Company Inc., Plainville, Conn. Photoflash equipment for multiple flash. 2,638,764, May 19.

Schweiter, Walter, Horgen, Switzerland, assignor to Maschinenfabrik Schweiter A. G. Cop supplier. 2,639,098, May 19.

Scott Aviation Corporation, The, assignee: *See*—
Miller, Arthur E.

Scott, Benjamin B., Jr., Pittsburgh, Pa. Coil winding. 2,639,097, May 19.

Scudi, John V., Riverdale, and F. E. Anderson, assignors to Nepera Chemical Co., Inc., Yonkers, N. Y. Thiosemicarbazones of furfuketones. 2,639,287, May 19.

Seale, Frank E., assignor to V. P. Seale, doing business as Bill-E-Company, Lexington, Ky. Spinning disk with embossed indicia. 2,638,706, May 19.

Seale, V. P., assignee: *See*—
Seale, Frank E.

Seeburg, Oscar E., Nokomis, Fla. Fishing leader kit. 2,638,699, May 19.

Seiss Corporation of America, assignee: *See*—
Hess, Frederic O.

Sengebusch, Hans: *See*—
Graybill, Kenneth W., and Sengebusch.

Sesera, Michael, West Orange, N. J. Automatic signal flare and marker buoy. 2,639,106, May 19.

Sewelin, Ernest R., Waterloo, Ind., assignor to International Harvester Company. Cab mounting. 2,639,186, May 19.

Shaak, George S., Avon, Pa. Machine for inking the edges of soles and heels of shoes. 2,638,869, May 19.

Shapleigh, James H., assignor to Herculea Powder Company, Wilmington, Del. Catalytic decomposition of hydrocarbons. 2,639,223, May 19.

Sharman, John C., Birmingham, England, assignor to Garringtons Limited. Longitudinal delivered rotary impact tool. 2,638,807, May 19.

Shaw, Thomas R.: *See*—
Hammond, Dale V., Shaw, and Miller.

Shell Development Company, assignee: *See*—
Glendenning, Everett B., Wies, and Caron.
Whetstone, Richard R., and Ballard.

Shenango Pottery Company, assignee: *See*—
Jordan, Jacob.

Sherborne, John E., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Electrical reservoir model. 2,639,090, May 19.

Sheriff, Albert H., Covington, Ky. Sine bar. 2,638,677, May 19.

Sherr, Rubby, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radar contrast control system. 2,639,423, May 19.

Sherwin, Chalmers W., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Sweep circuit. 2,639,402, May 19.

Shields, Donald J.: *See*—
Bell, Alan, and Shields.

Shimrock, Thomas: *See*—
Gebauer, Charles L., and Shimrock.

Shrode, Leroy W., Vanderburg, Ind. Apparatus for aid in grading examinations. 2,639,167, May 19.

Shurr, Paul L.: *See*—
Stott, Louis L., and Shurr.

Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Jacobi, Werner, Hinderer, and Buchta.
Wüstenev, Herbert.

Sinceo, Hornce J., Clifton Junction, near Manchester, assignor, by mesne assignments, to F. A. Hughes & Company Limited, London, England. Anodes for cathodic protection of metal structures. 2,639,265, May 19.

Simon, Charles, Lynbrook, N. Y. Fuel dilution device. 2,638,883, May 19.

Simon, Eli, Los Angeles, F. W. Thomas, Burbank, and E. H. Burkart, North Hollywood, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Making housing for electrical apparatus. 2,639,252, May 19.

Singer, Alexander J., Seat Pleasant, Md. Developing apparatus. 2,638,829, May 19.

Sitzer, Philip, Irvington, assignor to Tung-Sol Electric Inc., Newark, N. J. Multiple strand thermal pull wire unit. 2,639,190, May 19.

Sitzer, Philip, Irvington, assignor to Tung-Sol Electric Inc., Newark, N. J. Electric control device. 2,639,345, May 19.

Skellett, Albert M., Madison, assignor to National Union Radio Corporation, Newark, N. J. Electrooptical translating system. 2,639,401, May 19.

Sloan, Harry E., assignor to The Cushman Chuck Company, Hartford, Conn. Speed-controlled actuating device. 2,639,135, May 19.

Sloane-Blabon Corporation, assignee: *See*—
McBride, Eugene B.

Smith, Alexander G.: *See*—
Everhart, Edgar, Herlin, A. G. and W. V. Smith.

Smith, Franklin E., South Dartmouth, and N. H. Friedman, North Dighton, Mass. Collapsible tank and stabilizer means. 2,638,951, May 19.

Smith-Johannsen, Robert, and C. S. Oliver, Schenectady, N. Y., assignors to General Electric Company. Organopolysiloxanes of improved adhesion containing peroxides. 2,639,276, May 19.

Smith, Joseph E., Jr.: *See*—
Flaith, George D., and Smith.

Smith, Oliver S., Edwardsville, Ill. Doorknob actuated lock. 2,639,177, May 19.

Smith, Robert C., assignor to Eastman Kodak Company, Rochester, N. Y. Mounting 35-millimeter slides to prevent film buckle during projection. 2,639,254, May 19.

Smith, Warren H.: *See*—
McDuffie, Archie D., and Smith.

Smith, William V.: *See*—
Everhart, Edgar, Herlin, A. G. and W. V. Smith.

Snow, Ernest A., Jr., Amherst, Mass. Fertilizer process and product. 2,639,231, May 19.

Snow Kenneth T., assignee: *See*—
Olsen, Raymond G.

Snyder, Harry N., Indianapolis, Ind. Ventilator attachment for automobiles. 2,638,833, May 19.

Soberg, Arnold S., Elmhurst, and A. Christensen, Wilmette, assignors to Sochris Development Company, Chicago, Ill. Well driller cleanout pump assembly. 2,638,851, May 19.

Sochris Development Company, assignee: *See*—
Soberg, Arnold S., and Christensen.

Societe Anonyme dite: Compagnie des Freins & Signaux Westinghouse, assignee: *See*—
Mataré, Herbert F.

Societe Savoisienne de Constructions Electriques, assignee: *See*—
Egger, Léon.
Egger, Léon J.

Sondern, Clarence W., Mendham, and P. J. Breivogel, Glen Ridge, assignors to White Laboratories, Incorporated, Newark, N. J. Production of thiazolylamines. 2,639,285, May 19.

South Bend Lathe Works, assignee: *See*—
Frushour, Russel E.

Southworth Machine Company, assignee: *See*—
Aberle, Roy.

Sparano, Ottorino, Turin, Italy, assignor to H. J. Clay and J. Carlino, New York, N. Y., attorneys for Enrico Squeri. Electropneumatic hammering device. 2,638,749, May 19.

Sparks, Warren A., Long Beach, assignor to J. M. Henry, Los Angeles, Calif. Torch. 2,638,972, May 19.

Specialties Development Corporation, assignee: *See*—
Squier, Donald R.

Spencer, Lloyd: *See*—
Bannon, Thomas C., and Spencer.

Spielman, James F., Torrington, Conn. Reversible impact driving screw driver and functional elements thereof. 2,638,806, May 19.

Sprague, Robert H., L. G. S. Brooker, and S. G. Dent, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Resin-dyes of the cyanine type. 2,639,282, May 19.

Spraragen, Louis, assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn. Sealing strip. 2,638,642, May 19.

Spraying Systems Co., assignee: *See*—
Wahlin, Fred W.

Squeri, Enrico, assignee: *See*—
Sparano, Ottorino.

Squier, Donald R., Pompton Plains, assignor to Specialties Development Corporation, Belleville, N. J. Making heat or flame detecting elements. 2,639,247, May 19.

Stadler, Albert, assignor to Eclipse Fuel Engineering Co., Rockford, Ill. Automatic valve control means responsive to failure of either of two sources of fluid pressure. 2,638,928, May 19.

Stadler, Hurter & Company, assignee: *See*—
Hurter, Alfred T., and Attendu.

Standard Brands Incorporated, assignee: *See*—
Johnston, William R., Reich, and Miller.

Standard Manifold Company, assignee: *See*—
Hatfield, Charles W.

Standard Oil Development Company, assignee: *See*—
Becnel, Herman M.
McGowan, Gaylon H.
Roediger, Joseph C.
Salathiel, Richard A.
Vickers, Herbert H., and Jaros.
Viles, Prentiss S.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Nystrom, Karl T.

Stark, William T.: *See*—
Lundquist, Wilton G., Stark, and Schaffer.

Steede, Otho G., assignor to The Lewis Engineering & Manufacturing Company, Alliance, Ohio. Latch for grass shears. 2,638,669, May 19.

Stein, Heinrich, Chicago, Ill. Annular core automobile heater with fan and support therefor. 2,639,124, May 19.

Stern, Walter, assignor to The Cromwell Paper Company, Chicago, Ill. Garment bag. 2,639,028, May 19.

Stevens, George J., Baltimore, Md., assignor to Armco Steel Corporation. Wire finishing method and apparatus. 2,638,818, May 19.

Stirn, Frank E., Evans Park, Pearl River, and A. S. Taylor, Spring Valley, assignors to American Cyanamid Company, New York, N. Y. Drying gelatin capsules. 2,638,686, May 19.

Stoesz, John A.: *See*—
Balzer, Abram P., and Stoesz.

Stoizer, Milton M., Uniondale, N. Y. Apparatus for producing television in color. 2,638,816, May 19.

Stone, Albert M., Newton, Mass., assignor, by mesne assignments, to United States of America as represented by the Secretary of War. Pulse analyzer. 2,639,377, May 19.

Stone, Sink J., Swannanoa, N. C. Circuit breaker. 2,639,391, May 19.

Stortz, Parker H., Glendale, Calif. Method and apparatus for producing plied fabrics. 2,638,933, May 19.

Stortz, Parker H., Glendale, Calif. Apparatus for producing woven fabrics. 2,638,935, May 19.

Stott, John E., assignor to Wallaceburg Brass Limited, Wallaceburg, Ontario, Canada. Rotation indicator for plug-cock type of valves. 2,639,118, May 19.

Stott, Louis L., and P. L. Shurr, assignors to The Polymer Corporation, Reading, Pa. Apparatus for production of strip stock from polyamides. 2,638,628, May 19.

Stott, Louis L., and P. L. Shurr, assignors to The Polymer Corporation, Reading Pa. Production of strip stock from polyhexamethylene adipamide. 2,638,631, May 19.

Stott, Louis L., Reading, Pa., and L. R. B. Hervey, West Concord, Mass., assignors to The Polymer Corporation, Reading, Pa. Preparing finely divided nylon powder. 2,639,278, May 19.

Strandskov, Carl V.: *See*—
Griess, Gerald A., and Strandskov.

Strawsine, Fern A., Corunna, Mich. Roof ventilator. 2,638,835, May 19.

Street, Frederick G., Jr., New York, N. Y. High-voltage terminal connector. 2,639,313, May 19.

Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Counter for shoes. 2,638,689, May 19.

Struthers Wells Corporation, assignee: *See*—
Long, Charles A.

Studebaker, David E.: *See*—
Studebaker, Robert H. and D. E.

Studebaker, Merton L., Bartlesville, Okla., and J. E. Crouch, Borger, Tex., assignors to Phillips Petroleum Company. Apparatus for pelleting carbon black. 2,638,625, May 19.

Studebaker, Robert H., Dayton, and D. E. Studebaker, Tipp City, Ohio. Trailer hitch. 2,639,160, May 19.

Stuivenberg, Cornelis H., Haarlem, Netherlands. Process and apparatus for analyzing cards. 2,638,842, May 19.

Sturtevant, Fred W.: *See*—
Tuttle, Richard H., MacIsaac, and Sturtevant.

Suchy Holdings Limited, assignee: *See*—
McAuley, David J., Richards, and Clark.

Suen, Tzeng-Jiueq, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Acid-resistant wet strength paper. 2,639,242, May 19.

Sugarbaker, Everett D., Jefferson City, Mo. Surgical clamp. 2,638,901, May 19.

Sun Oil Company, assignee: *See*—
Kennedy, Robert M., and Schneider.

Sundstrom, Carl, and P. L. Fairbanks, Syracuse, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Photosensitive detection apparatus. 2,639,418, May 19.

Sunnen, Joseph, Clayton, Mo. Balancing device for high-speed honing machines. 2,638,721, May 19.

Sutcliffe Speakman & Company Limited, assignee: *See*—
Edwards, William E.

Swaim, Clarence D.: *See*—
Milligan, Charles L., and Swaim.

Swindin, Norman, London, England. Submerged flame burner. 2,638,895, May 19.

Sylvania Electric Products, Inc., assignee: *See*—
Benedict, Donald L.
Roeber, Henry W.

Symington-Gould Corporation, The, assignee: *See*—
Blattner, Emil H.

Szegvari, Andrew, Akron, and C. K. Gravley, Lakewood, assignors to The Brush Development Company, Cleveland, Ohio. Making transducer devices having bonded elements. 2,639,257, May 19.

T. M. M. (Research) Limited, assignee: *See*—
Haythornthwaite, James J., and Pinner.

Tallackson, John R.: *See*—
Robertson, Alexander F., and Tallackson.

Talmey, Paul, and R. W. Landon, assignors to General American Transportation Corporation, Chicago, Ill. Apparatus for treating granular material in a continuous process. 2,638,837, May 19.

Talmey, Paul, and O. R. Kuster, assignors to General American Transportation Corporation, Chicago, Ill. Apparatus for treating granular material in a continuous process. 2,638,838, May 19.

Tanaki, Edwin S., assignor to Marblehead Lime Company, Chicago, Ill. Treatment of acid waste liquors. 2,639,222, May 19.

Tapley, Emmett E., Las Vegas, N. Mex. Rack attachment for shelves. 2,639,040, May 19.

Tatoslan, Charles M., New York, N. Y. Automobile parking device. 2,639,046, May 19.

Tauber, Rudolf, assignee: *See*—
Penner, Sidney M.

Taylor, Arthur S.: *See*—
Stirn, Frank E., and Taylor.

Taylor Instrument Companies, assignee: *See*—
Caldwell, William I.
Caldwell, William I., and Woodhull.
Clarridge, Ralph E.
Gelswold, Augustus W., and Nichols.
Woodhull, Elliot H.

Teledetector, Inc., assignee: *See*—
McKee, Chester W., and R. W.

Teot, Arthur S.: *See*—
Griess, Gerald A., and Teot.

Terry, Stanley M., Toledo, Ohio. Sealed bearing for rotatable shafts with lubricators. 2,639,204, May 19.

Texas Company, The, assignee: *See*—
Dilworth, John P., and Culnane.

Thermo-Fluid Corporation, assignee: *See*—
Creskoff, Jacob J.

Thomas, Frank W.: *See*—
Simon, Eli, Thomas, and Burkart.

Thomas, Julian B., Fort Worth, Tex. Pallet stack unloader. 2,639,051, May 19.

Thompson, Donald N., Brooklyn, and W. B. Harris, New York, N. Y. High receiving and low servicing antenna mounting. 2,639,381, May 19.

Thompson, Paul, Wellesley Hills, assignor to Bestpak Inc., Boston, Mass. Pan liner. 2,639,212, May 19.

Thompson Products, Inc., assignee: *See*—
Bartlett, Kenneth M., and Connavino.
Pankuch, William J., and Gleeson.

Thompson, William P.: *See*—
Forse, Harry D., Thompson, and Hooper.

Thomsen, Alfred M., San Francisco, Calif. Making copper sulfate. 2,639,220, May 19.

Tigrett, John B., Chicago, Ill. Ornamental sounding toy. 2,638,711, May 19.

Timken Roller Bearing Company, The, assignee: *See*—
Edwards, Herbert C.

Tomarin, Harry A.: *See*—
Kinney, John W., Jr., and Tomarin.

Torsch, Charles E., North Syracuse, N. Y., assignor to General Electric Company. Universal sweep and high-voltage transformer. 2,639,319, May 19.

Transmission & Gear Company, The, assignee: *See*—
Gerst, Chris.

Treadwell, M. H., Company, Inc., assignee: *See*—
Olson, Johan H.

Troxell, Jeanette M.: *See*—
Briggs, Janet.

Truax, George G., Renton, Pa. Safety battery connector switch. 2,639,341, May 19.

Tung-Sol Electric Inc., assignee: *See*—
Sitzer, Philip.

Turner, Frank T., Hampton Bays, assignor to The Western Union Telegraph Company, New York, N. Y. Facsimile keying circuit. 2,639,321, May 19.

Turner, Ransom H., Great Neck, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. 2,639,027, May 19.

Tuttle, Richard H., Leaksville, J. T. MacIsaac, Jr., Spray, and F. W. Sturtevant, Leaksville, N. C., assignors to Marshall Field and Company, Chicago, Ill. Automatic weft straightener control and method. 2,638,656, May 19.

Twin Disc Clutch Company, assignee: *See*—
Wolf, Lloyd J.

Ulrich, Charles B., Jamestown, N. Y. Spring counterbalancing means for the covers of cabinets. 2,639,053, May 19.

Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Schroder, Charles.

Union Carbide and Carbon Corporation, assignee: *See*—
Wellman, Richard H., and McNamee.

Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O.
Sherborne, John E.

Unistel Textile Machine Corporation, assignee: *See*—
Quinn, Evan V.

United Aircraft Corporation, assignee: *See*—
Bulvid, Michel D.

United Shoe Machinery Corporation, assignee: *See*—
Burby, Philip E.
Root, Andrew A.
Stritter, Karl A.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Prescott, Charles H., Jr.

U. S. Bottlers Machinery Company, assignee: *See*—
Risser, Ivan H.

United States Gypsum Company, assignee: *See*—
Hallard, Bernard T.

United States Plywood Corporation, assignee: *See*—
Overholt, Ray L.

U. S. Slicing Machine Company, Inc., assignee: *See*—
Van Duyn, Adrianus.

Universal Oil Products Company, assignee: *See*—
De Rosset, Armand J.
Leffer, Frederick W.
Lipsh, Carl B., and Hervert.
Mavity, Julian M.

Universal Winding Company, assignee: *See*—
Goodhue, William V., and Morton.

Utah Oil Refining Company, assignee: *See*—
Monahan, Thomas P.

Vacanti, Michael C., Irondequoit, and C. Granata, Canandaigua, assignors to Germanow-Simon Machine Co., Inc., Rochester, N. Y. Combined rearview mirror and thermometer for motor vehicles. 2,638,785, May 19.

Van Arsdell, Prudence M.: *See*—
Aither, Joseph G., and Van Arsdell.

Vanderzee, Harry H., Chicago, Ill., assignor to Joy Manufacturing Company. Power supply system for self-propelled vehicles. 2,638,996, May 19.

Van Duyn, Adrianus, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind. Optical viewing and projecting computing weighing scale. 2,638,813, May 19.

Van Duyn, Adrianus, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind. Fluid pressure operated locking device for registering apparatus of weighing scales. 2,639,136, May 19.

Van Gessel, Karel M., Scarsdale, assignor, by mesne assignments, to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Electrical insulator. 2,638,660, May 19.

Vapor Heating Corporation, assignee: *See*—
Lemos, Albert, Jr., and Cunningham.

Varela, Andrew A., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Melamine-formaldehyde resinous composition with filler. 2,639,277, May 19.

Vaughn, Joseph J., Detroit, Mich., assignor, by mesne assignments, to McKee Door Company, Aurora, Ill. Safety door arm. 2,639,143, May 19.

Venuto, Louis J., Bayside, assignor to Columbian Carbon Company, New York, N. Y. Furnace black pelletizing process. 2,639,225, May 19.

Vickers, Herbert H., Union Township, Union County, and S. E. Jaros, Rahway, N. J., assignors to Standard Oil Development Company. Process and apparatus for preparing oil solutions of high molecular weight polymers. 2,639,275, May 19.

Victery, C. D., assignee: *See*—
Boyer, Mathew L.

Vignos, James C., assignor to Ohio Ferro-Alloys Corporation, Canton, Ohio. Addition materials for iron and steel manufacture and use thereof. 2,639,232, May 19.

Viking Tool & Machine Corporation, The, assignee: *See*—
Lindstrom, John.

Viles, Prentiss S., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Welding stainless steel. 2,638,665, May 19.

Viles, Prentiss S., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Article for welding stainless steel. 2,639,362, May 19.

Vilkomerson, Benjamin S., Camden, N. J., assignor to Radio Corporation of America. Tuning aid for high fidelity radio receiving systems and the like. 2,639,375, May 19.

Vincent, Dan B., Inc., assignee: *See*—
Vincent, Daniel B.

Vincent, Daniel B., assignor to Dan B. Vincent, Inc., Tampa, Fla. Apparatus for cooling and dehydrating hot pulpy solids. 2,638,687, May 19.

Vixler, Leslie F., Rocky River, assignor to The Patrol Valve Company, Cleveland, Ohio. Gas burner cap with branched outlet ports. 2,638,976, May 19.

Vogel, Alvin R.: *See*—
Feeney, Thomas A., and Vogel.

Vogel, Henry A., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Adsorbent refining of oils. 2,639,289, May 19.

Vogt, Arthur G., Toledo, Ohio. Lockseamer for corrugated radiator core blanks. 2,638,861, May 19.

Vordahl, Milton B., Trumbull, Conn., R. H. Grace, Athol, Mass., and P. H. Eccleston, Ilion, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Metal finishing method. 2,639,244, May 19.

Wade, Worth, Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for forming, stuffing, and shaping casings. 2,638,624, May 19.

Wagner Electric Corporation, assignee: *See*—
Klinksiek, Karl W.

Wahl, Albert J., Brocton, N. Y., assignor to Miller Pottery Engineering Company, Swissvale, Pa. Automatic ware dealing and transferring apparatus. 2,639,045, May 19.

Wahlbeck, John H.: *See*—
Gustafson, Bernard A., and Wahlbeck.

Wahlin, Fred W., Oak Park, assignor to Spraying Systems Co., Chicago, Ill. Antidrip valve for spray nozzles. 2,639,194, May 19.

Walker, Bernard M., Glendale, Calif. Shopper's cart. 2,639,163, May 19.

Walker, Willard R., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Rack for dishwashers. 2,638,910, May 19.

Walker, Willard R., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Fluid actuated valve. 2,638,927, May 19.

Wallaceburg Brass Limited, assignee: *See*—
Stott, John E.

Wallack, Franz F., Bruck an der Glocknerstrasse, assignor to Grossglockner-Hochalpenstrassen Aktiengesellschaft, Salzburg, Austria. Rotary plow for the removal of snow. 2,638,691, May 19.

Walter, John M., assignor to The G. A. Gray Company, Cincinnati, Ohio. Rail clamp for machine tools. 2,638,659, May 19.

War, United States of America as represented by the Secretary of, assignee: *See*—
Caraway, John B.
Cobine, James D.
Crawford, Franzo H.
Crout, Prescott D.
Everhart, Edgar, Herlin, and A. G. and W. V. Smith.
Getting, Ivan A.
Heller, Gerald S.
Jarvis, George A.
Lamb, Willis E., Jr.
Sherr, Rubby.
Sherwin, Chalmers W.
Stone, Albert M.
Watt, Bob E.

Ward, Hugh, Kearny, N. J., assignor to Congoleum-Nairn Inc. Apparatus for the manufacture of inlaid flexible smooth surface coverings and the like. 2,638,983, May 19.

Ward, William W., Liverpool, N. Y., assignor to General Electric Company. Double-twist phonograph stylus assembly. 2,639,156, May 19.

Wardlaw, Robert F., Anderson, S. C. Infant's swing seat assembly. 2,638,966, May 19.

Warner, Arthur W., Jr., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Masking device for crystals. 2,639,392, May 19.

Watson, Robert A., assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Thermostatic switching device. 2,639,352, May 19.

Watt, Bob E., Tulsa, Okla., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radar system for moving target indication. 2,639,420, May 19.

Watts, Vera M., Plainville, Kans. Lifter for cooking utensils. 2,639,184, May 19.

Weaver, Joe, Jr., Indianapolis, Ind. Concealed cemetery vase. 2,638,717, May 19.

Weber, Adolph C., University City, assignor to Laclede Steel Company, St. Louis, Mo. Anchored corrugated decking. 2,639,010, May 19.

Weber-Knapp Company, assignee: *See*—
Phelps, Malcolm T.

Weling, Charles A.: *See*—
Luby, Henry N., and Weling.

Wehrenfennig, Hugo, and L. Leitz, assignors to Ernst Leitz G. m. b. H., Wetzlar (Lahn), Germany. Camera winding key. 2,639,100, May 19.
Weller, Dale W.: *See*—
Klebler, Le Roy A., Aldrich, and Weller.
Wellman, Richard H., Yonkers, N. Y., and R. W. McNamee, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Insecticides. 2,639,259, May 19.
Wells, Sylvanus A., Daytona Beach, Fla. Nursing bottle holder. 2,639,111, May 19.
Wells, William S., Palo Alto, Calif., assignor to Daisy Manufacturing Company, Plymouth, Mich. Air gun. 2,638,884, May 19.
Werkman, Robert T.: *See*—
Crouch, Willie W., and Werkman.
West, Edward E., assignor to Chase Bag Company, Richmond, Va. Bag filling, closing, and tying machine. 2,639,069, May 19.
Western Electric Company, Incorporated, assignee: *See*—
Bell, James S.
Western Union Telegraph Company, The, assignee: *See*—
Halden, Frederick G., and Zabriskie.
Turner, Frank T.
Westinghouse Air Brake Company, assignee: *See*—
Martin, Paul N.
Westinghouse Electric Corporation, assignee: *See*—
Hartwig, Edward C., and Barrell.
Johnson, Douglas.
Whetstone, Richard R., and S. A. Ballard, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Preparation of 2 - hydroxy - 1,6 - hexanedial. 2,639,297, May 19.
White, George L., San Pablo, Calif. Internal reverse taper expanding hit reamer. 2,638,948, May 19.
White Laboratories, Incorporated, assignee: *See*—
Sondern, Clarence W., and Breivogel.
White, Walter R.: *See*—
Morey, Donald R., and White.
White, William M.: *See*—
Leavitt, Roger P., and White.
Widdows, Richard G., Shaker Heights, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electric resistance unit. 2,639,360, May 19.
Wieman, Ernest, Tomah, Wis. Backing unit for wall openings. 2,638,774, May 19.
Wies, Calmy: *See*—
Glendenning, Everett B., Wies, and Caron.
Wigg, Raymond E.: *See*—
Fellden, Geoffrey B. R., and Wigg.
Wiggins, John H., Chicago, Ill. Dry seal piston-type gas holder. 2,639,229, May 19.
Wiitala, Edwin S., and W. J. Rogers, assignors to Eastman Kodak Company, Rochester, N. Y. Noncaking potassium bromide for photographic developers. 2,639,219, May 19.
Wilkenlag, Frederick W., Penn Valley, H. G. Braendel, Paoli, and C. F. Engelhardt, Yeadon, assignors to Wilkening Manufacturing Company, Philadelphia, Pa. Expander for piston rings or the like. 2,639,205, May 19.
Wilkening Manufacturing Company, assignee: *See*—
Wilkening, Frederick W., Braendel, and Engelhardt.
Williams, Albert J., Jr., assignor to Leeds and Northrup Company, Philadelphia, Pa. Pulse amplifier system for spectrographic analysis. 2,638,811, May 19.
Williams, Alton C., San Angelo, Tex. Hand anvil. 2,638,803, May 19.
Williams, Frederic C., Timperley, and N. F. Moody, Cuffley, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Electronic signal tracking circuits. 2,639,419, May 19.
Williams, Moses M., Malmi, Fla., assignor of one-third to C. Killens. Automobile collision guard. 2,639,183, May 19.
Williams, Norman H., assignor to Humphreys & Glasgow Limited, Westminster, England. Apparatus for carbureted water gas. 2,639,228, May 19.
Williams Patent Corporation, assignee: *See*—
Collins, Edward J.
Williams, Samuel, & Sons, Limited, assignee: *See*—
Gamble, Frederick D. M.
Williams, Welton J., Brownfield, Tex. Well drilling apparatus. 2,638,988, May 19.
Wills, Walter P., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Annular thermocouple. 2,639,305, May 19.
Wilson, James S., Brookline, Mass. Apparatus for determining consistency of materials. 2,638,779, May 19.
Winkel, Herbert C., Watervliet, Mich. Battery grid trimming machine. 2,638,982, May 19.
Winslow, John C., and C. R. Boothby, Toledo, Ohio. Centrifugal governor. 2,639,134, May 19.
Winters, Frederick W., Beaver, Wis. Tractor front wheel spring suspension assembly. 2,639,165, May 19.
Winther, Anthony, Kenosha, Wis., and M. P. Winther, Gates Mills, assignors, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio. Transmission control system. 2,638,793, May 19.
Winther, Martin P.: *See*—
Winther, Anthony, and M. P.
Wolesiagie, Arnold, Geneseo, N. Y. Chain saw guard. 2,638,944, May 19.
Wolf, Lloyd J., assignor to Twin Disc Clutch Company, Racine, Wis. Cam operated clutch with spring loading. 2,639,015, May 19.
Wolff, Otto E.: *See*—
Bachelder, Albert J., and Wolff.
Wood, George B., Jr., assignor to American Bosch Corporation, Springfield, Mass. Fuel injection device. 2,639,193, May 19.
Woodhull, Elliot H.: *See*—
Caldwell, William I., and Woodhull.
Woodhull, Elliot H., assignor to Taylor Instrument Companies, Rochester, N. Y. Pneumatically-operated control instrument with follow-up. 2,638,874, May 19.
Woodhull, Elliot H., assignor to Taylor Instrument Companies, Rochester, N. Y. Pneumatically operated control system. 2,638,920, May 19.
Woodin, Walter F., Laurens, Iowa. Tractor seat mount. 2,638,965, May 19.
Woods, Fred D., Glencoe, assignor to Autopoint Company, Chicago, Ill. Fountain pen with cartridge barrel. 2,638,873, May 19.
Woodward, James S., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Hydraulic control apparatus for internal-combustion engines and variable pitch propellers. 2,638,993, May 19.
Woolf, James W., Franklin, Pa., assignor to Joy Manufacturing Company. Reel driving and control mechanism. 2,639,336, May 19.
Worth, Charles J., New York, N. Y. Drawing instrument. 2,638,674, May 19.
Worthington Corporation, assignee: *See*—
Grace, John F.
Wüsteney, Herbert, Kladow, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Teleprinter transmitter for perforated tape records. 2,639,323, May 19.
Wylie, Arthur R.: *See*—
Nobles, Warren H., and Wylie.
Wyne, Robert S., Kansas City, Mo. Dental equipment stand. 2,638,670, May 19.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Framhein, Herbert J.
Yingling, Frank B., deceased, Hamilton, Ohio. The First National Bank and Trust Company of Hamilton, Hamilton, Ohio, executor of said F. B. Yingling. Railroad locomotive. 2,638,798, May 19.
Yonkers, Edward H., Glencoe, assignor to Joslyn Mfg. & Supply Co., Chicago, Ill. Transformer protective apparatus. 2,639,346, May 19.
York, Ernest E., Falmouth Corner, Maine, assignor to American Coin Changer Corp., Boston, Mass. Control assembly for coin or token operated vending machines. 2,639,016, May 19.
Young, Charles J., Princeton, N. J., assignor to Radio Corporation of America. Facsimile scanner. 2,639,322, May 19.
Young, Clayton E., St. Joseph, Mich. Portable tying device. 2,638,714, May 19.
Young, Cyril C., Kansas City, Mo. Interlocking switch structure for electrically operated valves. 2,639,094, May 19.
Yuza, Joseph J., assignor to The Liquid Carbonic Corporation, Chicago, Ill. Sirup pump. 2,639,063, May 19.
Zabriskie, Douglas M.: *See*—
Halden, Frederick G., and Zabriskie.
Zachary, James H., Arlington, Calif. Producing a coffee substitute. 2,639,236, May 19.
Zippler, Arthur G., Philadelphia, Pa. Electrical interlock. 2,639,007, May 19.
Ziska, Adam, Wauwatosa, assignor to S. M. Kaufman, Milwaukee, Wis. Vending machine. 2,639,207, May 19.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Conveyer trolley, Overhead. E. Gaboury. Re. 23,658, May 19.
Cutting materials, Method of and apparatus for. A. G. Bodine, Jr. Re. 23,657, May 19.
Holder for set screw wrenches and the like. G. J. Steine. Re. 23,659, May 19.

LIST OF PLANT INVENTIONS

Camellia plant. R. W. Dailey. 1,190, May 19.
Rose plant. F. Meilland. 1,188, May 19.
Rose plant. M. Tantau. 1,189, May 19.

LIST OF DESIGN INVENTIONS

Antenna, Television. M. Kohl. 169,625, May 19.
Automobile. W. Wiggins, Jr. 169,645, May 19.
Bench and receptacle, Combination. W. L. Campbell. 169,579, May 19.
Bottle. M. E. St. Clair. 169,642, May 19.
Bowl set, Sugar. A. Rella. 169,634, May 19.
Bracelet or the like. A. Katz. 169,594, May 19.
Bracelet or the like. A. Katz. 169,597, May 19.
Bracelet or the like. A. Katz. 169,599, May 19.
Bracelet or the like. A. Katz. 169,601, May 19.
Brooch or the like. A. Katz. 169,610–22, May 19.
Building wall. J. K. Gannett and R. H. Straumyer. 169,584, May 19.
Cabinet. J. T. Armbruster. 169,573, May 19.
Car, Combined funeral and flower. R. D. Ehret. 169,582, May 19.
Chain for a bracelet or the like, Link. A. Katz. 169,592, May 19.
Chain for a bracelet or the like, Link. A. Katz. 169,596, May 19.
Chain for a necklace or the like, Link. A. Katz. 169,603, May 19.
Cornice unit, Sports display. W. M. Goodstein. 169,585, May 19.
Cover, Box. F. Wagner. 169,643, May 19.
Doll. H. Landorf. 169,627, May 19.
Door operator. H. L. Miller. 169,630, May 19.
Earring or the like. A. Katz. 169,602, May 19.
Earring or the like. A. Katz. 169,604–9, May 19.
Earring or the like. A. Katz. 169,623, May 19.
Fabric, Curtain. M. Sadinoff. 169,638, May 19.
Fire extinguisher or similar article, Portable. H. H. Schroeder, Jr. 169,641, May 19.
Float, Inflatable. W. Z. Norman and J. Billig. 169,631, May 19.
Frier, Electric deep fat. S. J. Budlane and R. Dusek. 169,575–6, May 19.
Garden marker. M. E. Ravenscroft. 169,633, May 19.
Grinder, Garbage. R. C. Koslo. 169,626, May 19.
Handbag. L. V. Hagewood. 169,586–7, May 19.
Handle, Implement. J. O. Melton. 169,629, May 19.
Hat. S. Katsin. 169,624, May 19.
Heel for a cast, Walking. F. O. Wright. 169,646–7, May 19.
Holder, Wall comb. W. F. Pfarrer. 169,632, May 19.
Necklace or the like. A. Katz. 169,593, May 19.
Necklace or the like. A. Katz. 169,595, May 19.
Necklace or the like. A. Katz. 169,598, May 19.
Necklace or the like. A. Katz. 169,600, May 19.
Ornament, Automobile hood. F. A. Helm. 169,591, May 19.
Pillow. W. M. Emery. 169,583, May 19.
Psychiatric testing and demonstration device or similar article. K. K. Bushy. 169,578, May 19.
Projector and phonograph, Combination. R. H. Larson. 169,628, May 19.
Rack, Merchandise display. J. Zel and R. W. Latimer. 169,649, May 19.
Scarf. W. Hanselmann. 169,588, May 19.
Seam ripper and thread picker, Combination. H. Ament. 169,572, May 19.
Seat and cover therefor, Combined toilet. J. W. Hauser. 169,590, May 19.
Seat unit, Bleacher. A. W. Richards. 169,635–7, May 19.
Ski pole ring. A. C. H. Weiss. 169,644, May 19.
Spoon. T. Carvel. 169,580, May 19.
Switch escutcheon. L. T. Bordner. 169,574, May 19.
Toy, Tethered top. M. L. Hassenfeld. 165,589, May 19.
Tractor, Juvenile. V. Schreckengost. 169,639, May 19.
Tray. A. Zaic. 169,648, May 19.
Tray, Luggage. C. S. Bartchaell. 169,577, May 19.
Vase. M. Drews. 169,581, May 19.
Vehicle, Juvenile tractor. V. Schreckengost. 169,640, May 19.
Whisk broom and window wiper, Combined. N. Abrams. 169,571, May 19.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting system, Automatic message. J. B. Retallack. 2,639,092, May 19.
Acid-resistant wet strength paper. T.-J. Suen. 2,639,242, May 19.
Actuating means for advancing and locking jaws of vises and like fixtures. R. C. Heinrich. 2,638,804, May 19.
Addition materials for iron and steel manufacture and use thereof. J. C. Vignos. 2,639,232, May 19.
Adsorbent refining of oils. H. A. Vogel. 2,639,280, May 19.
Adsorption process. C. H. O. Berg. 2,638,999, May 19.
Aerial top, Chromatic. F. R. Higley. 2,638,703–4, May 19.
Air-conditioning and humidifying apparatus. J. R. Rauhut. 2,638,644, May 19.
Air-conditioning apparatus, Ceiling mounted. W. F. Borgerd. 2,638,757, May 19.
Air gun. W. S. Wells. 2,638,884, May 19.
Airplane trim control. T. A. Feeney and S. A. Hall. 2,639,108, May 19.
Airport runway marker light. H. A. Cline. 2,639,366, May 19.
Alkyl aromatic hydrocarbons utilizing a common reagent as aromatic extractant and alkylation catalyst, Production of. C. B. Linn and G. L. Hervert. 2,639,303, May 19.
Alkyl esters of phosphoric acid, Preparing mixed. K. C. Brannock. 2,639,292, May 19.
Alkylation of heterocyclic organic compounds. J. M. Mavity. 2,639,286, May 19.
Alternating-current bridge. C. R. Schafer. 2,639,411, May 19.
Alternating wave generator. H. W. Augustadt. 2,639,385, May 19.
Amplifier system for spectrographic analysis, Pulse. A. J. Williams, Jr. 2,638,811, May 19.
Amplifier, Ultrahigh-frequency. D. B. Reeves. 2,639,335, May 19.
Amplifying apparatus for use with telephones. D. J. Ferrier. 2,639,329, May 19.
Amusement device. R. L. Morton, Jr., and F. W. Bubb. 2,638,967, May 19.
Analyzing cards, Process and apparatus for. C. H. Stuivenberg. 2,638,842, May 19.
Anatomical knee. O. S. Johnson. 2,638,605, May 19.
Anchored corrugated decking. A. C. Weber. 2,639,010, May 19.
Anhydrous zirconium fluoride, Production of. R. J. Anderson. 2,639,218, May 19.
Anodes for cathodic protection of metal structures. H. J. Simcox. 2,639,265, May 19.
Antenna. G. A. Jarvis. 2,639,382, May 19.
Antenna, Microwave. H. Gruenberg. 2,639,383, May 19.
Antiskid device. F. J. Mulholland. 2,638,953, May 19.
Antivibration mounting. R. Iredell, Jr. 2,639,115, May 19.
Anvil, Hand. A. C. Williams. 2,638,803, May 19.
Apparatus for aid in grading examinations. L. W. Shrode. 2,639,167, May 19.
Apparatus for applying caps to containers. J. W. Kerlin. 2,639,075, May 19.
Apparatus for carbureted water gas. N. H. Williams. 2,639,228, May 19.
Apparatus for collecting and discharging metal powders. H. A. Golwynne. 2,639,006, May 19.
Apparatus for controlling a process. R. E. Clarridge. 2,638,919, May 19.
Apparatus for cooling and dehydrating hot pulpy solids. D. B. Vincent. 2,638,687, May 19.
Apparatus for determining consistency of materials. J. S. Wilson. 2,638,779, May 19.
Apparatus for determining impedance characteristics of transmission lines. J. O. Bennett. 2,639,317, May 19.
Apparatus for dielectric fabrication. E. R. Frederick and P. R. Malmberg. 2,638,963, May 19.
Apparatus for effecting gas-liquid mixing. A. J. de Rosset. 2,639,129, May 19.
Apparatus for effecting indication and signal controls by transient direct current. P. N. Martin. 2,639,370, May 19.
Apparatus for equalizing distribution in packed columns. P. N. Heere. 2,639,130, May 19.
Apparatus for filling containers with moist granular material. C. E. Kerr. 2,639,076, May 19.
Apparatus for forming, stuffing, and shaping casings. W. Wade. 2,638,624, May 19.
Apparatus for heat treatment of fluent substances. F. O. Hess. 2,638,879, May 19.
Apparatus for inverting patients during X-ray examinations. G. V. Hutler. 2,639,206, May 19.
Apparatus for making coffee and like infusions. E. Duyvené de Wit. 2,638,840, May 19.
Apparatus for pelleting carbon black. M. L. Studebaker and J. E. Crouch. 2,638,625, May 19.
Apparatus for producing a nonwoven soft-surface floor covering. H. A. Reinhardt. 2,638,960, May 19.
Apparatus for producing television in color. M. M. Stolzer. 2,638,816, May 19.
Apparatus for producing woven fabrics. P. H. Stortz. 2,638,935, May 19.
Apparatus for production of strip stock from polyamides. L. L. Stott and P. L. Shurr. 2,638,628, May 19.
Apparatus for supporting and manipulating phonograph records. D. M. Groves. 2,639,155, May 19.
Apparatus for the manufacture of inlaid flexible smooth surface coverings and the like. H. Ward. 2,638,983, May 19.
Apparatus for the production of metal powder. H. A. Golwynne. 2,638,626, May 19.
Apparatus for translating and plotting log charts from drilling time charts. R. Ramsey. 2,638,671, May 19.
Apparatus for treating granular material in a continuous process. P. Talmey and R. W. Landon. 2,638,837, May 19.
Apparatus for treating granular material in a continuous process. P. Talmey and O. R. Kuster. 2,638,838, May 19.
Article for welding stainless steel. P. S. Viles. 2,639,362, May 19.
Articles from synthetic resinous materials, Production of. C. G. Evans and A. Baker. 2,639,258, May 19.
Artificial arm with stepped-up wrist drive and automatic wrist lock. G. M. Motis. 2,638,604, May 19.
Artificial bait and holder therefor, Illuminable. G. S. Schwartz. 2,638,697, May 19.
Ash receiver with mounting plate. E. S. Carlson. 2,639,055, May 19.
Ash tray. J. Morrison. 2,638,905, May 19.
Asphalt pavement. J. C. Roediger. 2,638,823, May 19.
Assembling an air filter panel. K. F. Russell. 2,639,003, May 19.
Attachment for fastening articles to brushes, brooms, and the like. W. G. Legge. 2,638,618, May 19.
Automatic frequency control. H. L. Donley and E. O. Kelzer. 2,639,376, May 19.
Automatic tank valve. T. A. St. Clair. 2,638,924, May 19.
Automatic ware dealing and transferring apparatus. A. J. Wahl. 2,639,045, May 19.
Automatic weft straightener control and method. R. H. Tuttle, J. T. MacIsaac, Jr., and F. W. Sturtevant. 2,638,656, May 19.
Automatic weighing gear. F. D. M. Gamble. 2,639,137, May 19.
Automobile collision guard. M. M. Williams. 2,639,183, May 19.
Axle and differential lock. A. J. Gross. 2,638,797, May 19.
Backing unit for wall openings. E. Wieman. 2,638,774, May 19.
Bag: *See*—
Garment bag.
Bag filling, closing, and tying machine. E. E. West. 2,639,069, May 19.
Bag holder. W. A. Nicolas. 2,639,110, May 19.
Bag seal. S. M. Moberg. 2,639,181, May 19.
Balanced to unbalanced energy transfer circuit. J. B. Caraway. 2,639,328, May 19.
Balancing device for high-speed honing machines. J. Sunnen. 2,638,721, May 19.
Bar: *See*—
Sine bar.
Barbecue device. C. P. Molla. 2,638,888, May 19.
Battery fabrication, Pile. A. Fischbach. 2,639,306, May 19.
Battery grid trimming machine. H. C. Winkel. 2,638,982, May 19.
Bearing for rotatable shafts with lubricators, Sealed. S. M. Terry. 2,639,204, May 19.
Bearing for surveying instruments, Adjustable. W. Patrosio. 2,639,199, May 19.
Bearing with temperature compensation, Preloaded. R. C. Sasse. 2,639,203, May 19.
Bed adsorber, Rotating. W. E. Edwards. 2,639,000, May 19.
Bed bottom. D. E. Austin. 2,638,606, May 19.

Bench structure, Greenhouse. H. W. Schroeder. 2,638,715, May 19.
Blocking machine, Hat. J. Sarnelle. 2,639,064, May 19.
Bobbin stripper. W. V. Goodhue and R. E. Morton. 2,638,658, May 19.
Bobbin stripper. W. V. Goodhue and R. E. Morton. 2,638,937, May 19.
Bobbins, Making warp. W. H. Maxson. 2,638,664, May 19.
Bolt and actuating and anchor releasing means therefor, Locking. D. A. Ramler. 2,638,772, May 19.
Book and binder therefor. C. E. Emmer. 2,638,902, May 19.
Book and leaf holding device for printing machines. C. G. Krakenberg. 2,638,846, May 19.
Bookholder for hospital beds, Adjustable. C. A. Dahlgren. 2,638,701, May 19.
Boring implement. A. F. Froussard. 2,638,802, May 19.
Box: *See*—
Electrical outlet box.
Folding box.
Bracket: *See*—
Building bracket.
Picture hanging bracket.
Brake: *See*—
Door brake.
Brake drum vibration damper. C. J. Bock. 2,639,195, May 19.
Brake indicator for railroad cars, Effective. C. H. Beck. 2,638,864, May 19.
Brassière. M. C. Fridolph. 2,638,596, May 19.
Bringing an object to a given temperature, Process and apparatus for. P. G. M. Harris. 2,638,759, May 19.
Bromofluoromethanes, Preparation of. R. P. Ruh and R. A. Davis. 2,639,301, May 19.
Brush and the like, Container. C. Doering. 2,638,617, May 19.
Bucket, Collapsible scrub. D. K. Sanderson. 2,638,952, May 19.
Building bracket. R. G. Olson. 2,638,643, May 19.
Building frame construction. E. J. Kump, Jr. 2,638,637, May 19.
Building suitable for use as tourist lodges and the like. M. L. Priebe. 2,638,635, May 19.
Burner: *See*—
Submerged flame burner.
Burner and support therefor, Oil. H. E. Hopkins. 2,638,890, May 19.
Burning fuel in jet-operated rotor blades. W. Brzozowski. 2,638,989, May 19.
Cab mounting. E. R. Sewelin. 2,639,186, May 19.
Cabinet: *See*—
Storage and baler cabinet.
Calculator, Electrical. A. N. Gleyzal. 2,639,089, May 19.
Calculator, Radiograph. F. Elias. 2,639,091, May 19.
Caliper, Tubing and casing. M. M. and J. C. Kinley. 2,638,681, May 19.
Calling line identification apparatus. J. E. Gatline. 2,639,330, May 19.
Cam device for controlling electric circuits. H. D. Gaite. 2,639,340, May 19.
Camera shutter mechanism. M. N. Fairbank. 2,638,825, May 19.
Camera winding key. H. Wehrenfennig and L. Leitz. 2,639,100, May 19.
Can crushing device. C. G. Danielson. 2,638,957, May 19.
Car: *See*—
Railroad fissure detector car.
Car door lock. K. T. Nystrom. 2,639,180, May 19.
Carbon arc lamp operation and arc intensity control. J. J. Mascuch and J. K. Elderkin. 2,639,400, May 19.
Carbon-free operation of internal-combustion engines. E. Ryder. 2,638,882, May 19.
Carbon holder for continuous-form stationery. C. W. Hatfield. 2,639,018, May 19.
Carbon paper remover. M. L. Long. 2,639,145, May 19.
Carboxymethyl cellulose, Manufacture of. A. Hodge, J. G. N. Drewitt, and J. Downing. 2,639,281, May 19.
Card feed, Flexible. L. N. Hampton and M. Salzer. 2,639,149, May 19.
Carriage, Collapsible. L. Schon. 2,639,162, May 19.
Carrier: *See*—
Rail trailer carrier.
Cart, Shopper's. B. M. Walker. 2,639,163, May 19.
Carton, Multiple roll. N. A. Petter. 2,639,079, May 19.
Cartridge type seal. F. A. Schick and P. Knaust. 2,639,170, May 19.
Casein-lactic-acid composition. J. G. Kennedy and F. W. Bernhart. 2,639,235, May 19.
Casing perforator. R. J. Klaasen and E. M. Olsen. 2,638,801, May 19.
Casting machine, Centrifugal. G. A. Rubissow. 2,638,646, May 19.
Catalytic decomposition of hydrocarbons. J. H. Shapleigh. 2,639,223, May 19.
Catalytic reactor. J. McAfee. 2,639,224, May 19.
Ceiling construction. V. E. Peterson. 2,639,011, May 19.
Cellulose acetal derivatives, Preparing. J. W. Mench and M. S. Lounsbery. 2,639,280, May 19.
Cementitious bodies, Producing. J. J. Creskoff. 2,638,655, May 19.
Chain: *See*—
Roller drive chain.
Chair: *See*—
Rocking chair.
Chair construction, Tubular. B. F. Harber. 2,638,970, May 19.
Checkering machine. F. H. McDonald, J. J. Mackrell, K. P. Rado, and J. R. Brand. 2,638,946, May 19.
Chlorobromodifluoromethane, Preparation of. R. P. Ruh and R. A. Davis. 2,639,302, May 19.
Choke for oil and gas well systems, Reduction. L. C. Clair. 2,638,917, May 19.
Chuck, Adjustable. R. E. and J. R. Buck. 2,639,157, May 19.
Cigarette holder. A. M. Mitchell. 2,638,904, May 19.
Circuit: *See*—
Balanced to unbalanced energy transfer circuit.
Facsimile keying circuit.
Indicator selecting and lock-in circuit.
Magnetron circuit.
Strain measuring circuit.
Sweep circuit.
Circuit breaker. S. J. Stone. 2,639,301, May 19.
Circuit breaker, Electric. E. J. Frank and V. E. Phillips. 2,639,351, May 19.
Circuit breaker, Electric. R. N. Rowe. 2,639,347, May 19.
Circuit breaker, Thermal type overload. G. M. Euler. 2,638,737, May 19.
Circuit breaker with arc chute short circuiting sections of the arc. G. E. Jansson. 2,639,353, May 19.
Circuit breaker with screw adjustment for latches, Thermal latch. R. C. Ingwersen. 2,639,349, May 19.
Circuit breaker with spark sealing casing construction. R. C. Ingwersen. 2,639,348, May 19.
Circuit for pulsating direct current, Electronic switching and mixing. D. W. Blancher. 2,639,379, May 19.
Circuit tester. E. Des Roches. 2,639,318, May 19.
Circulating means for automatic cookers or washers. A. F. Albano. 2,638,767, May 19.
Circumferential tire slitting tool. W. F. Errig and E. S. De Hart. 2,638,984, May 19.
Clamp: *See*—
Surgical clamp.
Cleaner: *See*—
Portable steam cleaner.
Syringe cleaner.
Tank type suction cleaner.
Vacuum cleaner.
Cleaning head for mops. A. H. Marchus. 2,638,615, May 19.
Clip: *See*—
Curl clip.
Clock. M. E. Schlenker. 2,638,735, May 19.
Closed end magnetron. W. E. Lamb, Jr. 2,639,407, May 19.
Closure and operating means therefor. C. A. Long. 2,639,144, May 19.
Closure for containers, Attached. W. Gräbner. 2,639,056, May 19.
Closure for containers, Elastically sealed. F. Lobl. 2,639,058, May 19.
Clutch: *See*—
Fluid and spring operated clutch.
Multiple disk friction clutch.
Clutch and throttle control for outboard motors. A. R. Long. 2,638,862, May 19.
Clutch with spring loading, Cam operated. L. J. Wolf. 2,639,015, May 19.
Coffee substitute, Producing a. J. H. Zachary. 2,639,236, May 19.
Coil winding. B. B. Scott, Jr. 2,639,097, May 19.
Comb with scissors rest. M. L. Boyer. 2,638,907, May 19.
Combination dimmer and direction switch. P. L. Franck, 2,639,339, May 19.
Combustion chamber for gaseous fuels. M. F. Berry. 2,638,975, May 19.
Commodity display rack. R. R. Isenhour. 2,638,692, May 19.
Commutator, armature, and making the same. W. R. Harry. 2,639,396, May 19.
Commutator forming and assembling machine. K. W. Klinkstek. 2,638,661, May 19.
Compass, Magnetic. J. B. Reece and J. P. Putnam. 2,638,683, May 19.
Condensate removal means. W. F. Borgerd. 2,638,756, May 19.
Condenser: *See*—
Variable high-voltage electrical condenser.
Condenser and support therefor, Surface. J. F. Grare. 2,639,123, May 19.
Conditioning baked products, Method and apparatus for. M. H. Duval. 2,638,685, May 19.
Connector: *See*—
High-voltage terminal connector.
Constant speed drive by use of a magnetic-fluid clutch. G. G. Gould. 2,639,414, May 19.
Construction of turbine-inlet and stator elements of gas turbines. G. B. R. Feilden. 2,638,743, May 19.
Container and making same, Cylindrical. T. F. Barnes. 2,638,820, May 19.
Container closure. E. Gronemeyer and S. Cherba. 2,639,057, May 19.
Container structure with handle attachment. A. J. Goldsmith. 2,639,082, May 19.
Control. R. L. Jaeschke. 2,639,395, May 19.
Control assembly for coin or token operated vending machines. E. E. York. 2,639,016, May 19.
Control device. J. L. Harris. 2,638,979, May 19.

Control instrument with follow-up, Pneumatically-operated. E. H. Woodhull. 2,638,874, May 19.
Control mechanism for engine driven compressors. H. H. Rambo. 2,639,083, May 19.
Control mechanism for jet driven aircraft sustaining rotor blades. H. F. Pitcairn. 2,638,991, May 19.
Control of electrically effected adjustments of horizontal boring machines. H. W. L. Kearns. 2,639,412, May 19.
Control system. W. I. Caldwell and E. H. Woodhull. 2,638,921, May 19.
Control system. N. E. Klein. 2,638,731, May 19.
Control system, Pneumatically operated. W. I. Caldwell. 2,638,922, May 19.
Control system, Pneumatically operated. A. W. Griswold and N. B. Nichols. 2,638,911, May 19.
Control system, Pneumatically operated. E. H. Woodhull. 2,638,920, May 19.
Controlled noise-reduction means for typewriters. C. Schroder. 2,639,020, May 19.
Conveyer. P. Kneer. 2,638,024, May 19.
Conveyer apparatus for heat-treating metal parts. H. N. Ipsen. 2,639,047, May 19.
Cooler: *See*—
  Water cooler.
Cooling and dispensing device. C. L. Daun. 2,638,758, May 19.
Cooling system and apparatus for motor vehicles. A. Méndez. 2,638,752, May 19.
Cop supplier. W. Schwelter. 2,639,098, May 19.
Copolymers of allyl esters of stabilized resin acids. C. W. Gould. 2,639,273, May 19.
Copper sulfate, Making. A. M. Thomsen. 2,639,220, May 19.
Corrugation crimping device. V. C. Norquist and H. S. Day. 2,638,958, May 19.
Counter for shoes. K. A. Stritter. 2,638,689, May 19.
Counting relay. K. W. Graybill and H. Sengebusch. 2,639,416, May 19.
Coupling: *See*—
  Fluid coupling. Overload release coupling.
Coupling system, Tuned inductive. R. L. Harvey. 2,639,324, May 19.
Cover construction. F. E. Coppock. 2,639,168, May 19.
Cover plate and toggle switch actuator. K. E. Savage. 2,639,356, May 19.
Cuff for trouser legs and the like, Attachable. C. Crompton, Jr. 2,638,600, May 19.
Cuff links, Reversible front. W. H. Meeker. 2,638,649, May 19.
Cup orienting device. H. W. Roeber. 2,639,034, May 19.
Curl clip. J. Schildt. 2,638,908, May 19.
Current limiting apparatus. F. Kesselring. 2,639,357, May 19.
Curtain and drape support. J. M. Davis. 2,639,041, May 19.
Cutlery sharpener. L. A. Hoek. 2,638,720, May 19.
Cutter: *See*—
  Self-supporting automatically operable tube cutter.
Cutter blades for carpenters' planes, Removable. P. Lausch. 2,638,947, May 19.
Cylinder bearing and packing. H. Kirkham. 2,639,198, May 19.
Cylinder with fluid-volume compensating valve in piston, Master. A. E. Miller. 2,638,748, May 19.
Damper control, Furnace. D. V. Hammond, T. R. Shaw, and G. O. Miller. 2,638,892, May 19.
Damper for poultry house ventilators. R. L. Hull. 2,638,836, May 19.
Deesterification of aromatic compounds. J. D. Head. 2,639,298, May 19.
Dental equipment stand. R. S. Wyne. 2,638,670, May 19.
Developing apparatus. A. J. Singer. 2,638,829, May 19.
Device for severing rolled materials. P. E. Fuchs. 2,639,031, May 19.
Device for working in ceramics. L. Adams. 2,638,653, May 19.
Diacetyl sulfide, Manufacture of. W. W. Cronch and R. T. Werkman. 2,639,296, May 19.
Diaminophenylthiobutenes. L. R. Freimiller and C. H. McKeever. 2,639,283, May 19.
Diaphragm. J. M. Barr. 2,638,930–1, May 19.
Diaphragm control for press roll assemblies. L. Hornbostel. 2,638,819, May 19.
Dice shaking device. R. P. Murray. 2,639,153, May 19.
Die for macaroni product extrusion, D. Maldari. 2,638,855, May 19.
Dielectric material. R. L. Overholt. 2,639,248, May 19.
Differential drive mechanism. M. E. King. 2,638,795, May 19.
Differential mechanism. F. D. Knoblock. 2,638,794, May 19.
Diffuser for gases. E. P. Coombs. 2,639,131, May 19.
Digger, Sweet potato. J. K. Park and M. R. Powers. 2,638,727, May 19.
Disk harrow hitch and angling means. F. D. Sawyer. 2,638,726, May 19.
Disk with embossed indicia, Spinning. F. E. Seale. 2,638,706, May 19.
Dispensing apparatus for measuring and delivering a plurality of liquids. F. Mantell. 2,639,060, May 19.
Dispensing apparatus, Ticket. M. E. Adams. 2,639,148, May 19.
Dispensing liquids, Means for. C. L. Gebauer and T. Shimrock. 2,639,052, May 19.
Distilling solid hydrocarbonaceous material. F. W. Leffer. 2,639,263, May 19.
Doll eye, Escapement-controlled movable. G. R. Ratcliff. 2,638,710, May 19.
Door actuator, Automatic. J. L. and W. J. Morgan. 2,639,142, May 19.
Door arm, Safety. J. J. Vaughn. 2,639,143, May 19.
Door brake. E. D. Kearney. 2,638,619, May 19.
Doorkey fastener. E. C. Griesbach. 2,638,773, May 19.
Doorknob actuated lock. O. S. Smith. 2,639,177, May 19.
Door lach. C. S. Comey and M. F. Saxton. 2,638,771, May 19.
Door peep observation device. G. H. Berleme. 2,638,810, May 19.
Doorstop. G. Civitelli. 2,638,620, May 19.
Doughnut handling apparatus. J. Kinzelman and F. A. Anetsberger. 2,639,040, May 19.
Draft key retainer. E. H. Blattner. 2,638,809, May 19.
Draft seal. R. J. Menzies. 2,638,641, May 19.
Drafting machine. C. W. Keuffel and A. L. Baker. 2,638,675, May 19.
Drapery, drapery heading, and supporting means therefor. E. S. Atkins. 2,638,978, May 19.
Dry picker for poultry. H. F. Hanscom. 2,638,623, May 19.
Dry seal piston-type gas holder. J. H. Wiggins. 2,639,229, May 19.
Drying gelatin capsules. F. E. Stirn and A. S. Taylor. 2,638,686, May 19.
Effervescent drink concentrate. J. G. Alther and P. M. Van Arsdell. 2,639,238, May 19.
Electric control device. P. Sitzer. 2,639,345, May 19.
Electric heater. I. G. Glenn. 2,639,359, May 19.
Electric resistance unit. R. G. Widdows. 2,639,360, May 19.
Electric switch. E. W. Rickmeyer. 2,639,344, May 19.
Electrical contact. T. J. Dunsheath. 2,639,355, May 19.
Electrical device and preparation. H. E. Hollman. 2,639,380, May 19.
Electrical interlock. A. G. Zippler. 2,639,007, May 19.
Electrical outlet box. M. B. Austin, Jr. 2,639,054, May 19.
Electrical reservoir model. J. E. Sherborne. 2,639,090, May 19.
Electromagnetic deflection yoke. J. S. Bryan. 2,639,314, May 19.
Electromagnetic wave microwave frequency structure using hybrid junctions. D. H. Ring. 2,639,326, May 19.
Electron discharge device. D. L. Benedict. 2,639,405, May 19.
Electron emitter. J. M. Lafferty. 2,639,399, May 19.
Electronic pulse generator. N. A. Moerman. 2,639,378, May 19.
Electronic signal tracking circuits. F. C. Williams and N. F. Moody. 2,639,419, May 19.
Electronic tuning or indicating tube. W. Jacobi, H. Hinderer, and K. Buchta. 2,639,398, May 19.
Electrooptical translating system. A. M. Skellett. 2,639,401, May 19.
Elevating means for lance type lubricant pumps. A. P. Fox. 2,639,062, May 19.
End connection for bracelets and the like. H. Ruf. 2,638,652, May 19.
Engine: *See*—
  Radial cylinder engine. Rotary expansion engine.
Engine having inlet cone diffuser automatically adjustable as to length and cone angle, Ramjet. R. M. Salter, Jr. 2,638,738, May 19.
Expander for piston rings or the like. F. W. Wilkening, H. G. Braendel, and C. F. Engelhardt. 2,639,205, May 19.
Facsimile keying circuit. F. T. Turner. 2,639,321, May 19.
Facsimile machine, Multistylus. F. G. Halliden and D. M. Zabriskie. 2,639,211, May 19.
Facsimile scanner. C. J. Young. 2,639,322, May 19.
Fan, Axial flow. C. F. Goede. 2,639,087, May 19.
Fan hub. A. L. Henry. 2,638,761, May 19.
Fastener: *See*—
  Door key fastener.
  Low permeability separable fastener.
Fastening device for shield cans. F. W. Cook. 2,639,311, May 19.
Fastening device, Self-aligning, screw-threaded. M. T. Phelps. 2,639,179, May 19.
Fertilizer process and product. E. A. Snow, Jr. 2,639,231, May 19.
Filling machine having vertically reciprocable tamping arms and plunger. R. J. Goldberg. 2,639,072, May 19.
Film guide roller for motion-picture projecting machines. E. W. D'Arcy. 2,639,146, May 19.
Film holder for self-developing cameras. M. N. Fairbank. 2,638,826, May 19.
Filter: *See*—
  Window air filter.
Filter testing device. C. L. Hazelton. 2,638,688, May 19.
Filter units for a filter apparatus, Production of. A. C. Kracklauer. 2,639,251, May 19.

Filtering apparatus. J. N. Humber, H. Hogeman, and P. G. Burman. 2,639,036, May 19.
Fish lure. L. J. Eppinger. 2,638,698, May 19.
Fishing device. M. J. Derkovitz. 2,638,696, May 19.
Fishing leader kit. O. E. Seeburg. 2,638,699, May 19.
Floating connection. B. H. Leonard, Jr. 2,639,172, May 19.
Floor covering and felt base material. E. B. McBride. 2,638,638, May 19.
Floor covering and method and apparatus for producing the same, Nonwoven soft-surface. C. R. Johnson. 2,638,959, May 19.
Floor covering and producing the same, Nonwoven soft-surface. H. A. Reinhardt. 2,639,250, May 19.
Flow adjusting means for fertilizer distributors. C. M. Gladis. 2,639,061, May 19.
Flowerpot. F. Luipersbek. 2,638,716, May 19.
Fluid actuated valve. W. R. Walker. 2,638,927, May 19.
Fluid and spring operated clutch. F. E. Munschauer. 2,639,014, May 19.
Fluid control for rotary turbine type hydraulic torque converters. G. K. Kelley. 2,638,746, May 19.
Fluid coupling. W. F. Mitchell. 2,638,915, May 19.
Fluid distributing apparatus. L. Lee, II. 2,638,812, May 19.
Fluid motor. F. R. Emig. 2,638,877, May 19.
Fluid pressure actuated articulated boom. F. L. Glashaw. 2,639,048, May 19.
Fluoromethanes, Preparation of. R. P. Ruh and R. A. Davis. 2,639,300, May 19.
Flush latch. J. E. Hogan. 2,639,178, May 19.
Focusing apparatus, Optical image. C. R. Croy. 2,638,815, May 19.
Focusing of radiations by means of sttationary reflector and refractor gratings, Method and device for. G. de Pillot de Coligny. 2,639,384, May 19.
Folder, Display. T. W. Foster. 2,638,693, May 19.
Folding apparatus, Shirt. H. D. Forse, W. P. Thompson, and L. T. Hooper. 2,639,065, May 19.
Folding box. W. G. Anderson, Jr. 2,639,080, May 19.
Footwear, Article of. E. P. Bullard, III. 2,638,601, May 19.
Footwear, Article of. E. P. Bullard, III. 2,638,690, May 19.
Footwear testing machine, Mechanical. A. A. Alnes. 2,638,776, May 19.
Force measuring apparatus. A. D. McDuffie and W. H. Smith. 2,638,781, May 19.
Forming cabinet shells, Method and apparatus for. W. H. Nobles and A. R. Wylie. 2,638,860, May 19.
Forming thread. C. F. Gram. 2,639,214, May 19.
Foundry device. W. J. Olson. 2,638,645, May 19.
Fountain brush head having sliding valve. J. W. Anderson. 2,638,614, May 19.
Frequency regulator. H. G. Haas. 2,639,413, May 19.
Front feed carriage for accounting machines. W. A. Anderson. 2,639,019, May 19.
Fuel burner diffuser. R. C. Brierly. 2,638,974, May 19.
Fuel dilution device. C. Simon. 2,638,883, May 19.
Fuel ignition control. M. F. Peters. 2,639,408, May 19.
Fuel injection device. G. B. Wood, Jr. 2,639,193, May 19.
Fuel oil compositions, Anticlogging. E. B. Glendenning, C. Wiles, and J. B. R. Caron. 2,639,227, May 19.
Fuel supply control system for intermittent jet engines. J. M. Barr. 2,638,739, May 19.
Fuel supply system with emergency switching means. F. H. Carey. 2,638,973, May 19.
Fueling device. A. T. Scheiwer. 2,638,916, May 19.
Full powered control system, Dual source. T. A. Feeney and A. R. Vogel. 2,638,736, May 19.
Furnace black pelletizing process. L. J. Venuto. 2,639,225, May 19.
Furnace for discrete solids, Processing. J. H. Bradford. 2,639,132, May 19.
Furniture structure, marquetry with fabric. J. Furman. 2,638,971, May 19.
Fuse, Electric. J. E. Cox. 2,639,350, May 19.
Fuse, Reuseable plug. O. C. Larson, Sr. 2,639,351, May 19.
Garment. M. E. and G. F. Brent. 2,638,594, May 19.
Garment. P. Goebel. 2,638,595, May 19.
Garment bag. W. Stern. 2,639,028, May 19.
Garment hanger. J. W. Kinney, Jr., and H. A. Tomarin. 2,639,066, May 19.
Garment, Maternity. J. Briggs. 2,638,597, May 19.
Garment, Sanitary. A. Ambarian. 2,638,899, May 19.
Gas burner cap with branched outlet ports. L. F. Vixler. 2,638,976, May 19.
Gas discharge tube. J. D. Cobine. 2,639,409, May 19.
Gas turbine combustor having tangential air inlets for primary and secondary air. M. L. Nathan. 2,638,743, May 19.
Gas turbine power control. W. G. Lundquist, W. T. Stark, and W. C. Schaffer. 2,638,992, May 19.
Gauge attachment, Combination pressure and cost computing. L. W. Sage. 2,638,866, May 19.
Gauge of the ionization producing type, Vacuum. J. W. Clark and S. G. McNees. 2,639,397, May 19.
Gear: *See*—
  Automatic weighing gear.
Generator: *See*—
  Alternating wave generator. Electronic pulse generator.
Generator for radar systems and the like, Cathode-ray tube timing pulse. J. L. Russell and E. E. Herman. 2,639,425, May 19.
Gopher trap. J. Nantt. 2,638,700, May 19.
Governor, Centrifugal. J. C. Winslow and C. R. Boothby. 2,639,134, May 19.
Granulating plastic materials, Means for. I. Hinerfeld. 2,639,096, May 19.
Grapple holder. S. J. Procos. 2,639,158, May 19.
Greenhouse construction. A. B. Kleinhans. 2,639,009, May 19.
Grill. C. A. Boyce. 2,638,841, May 19.
Grinding machine, Crank. H. E. Balaiger and R. E. Price. 2,638,719, May 19.
Grinding wheel dresser. C. D. Chandler. 2,638,886, May 19.
Grinding wheel dresser. G. Eaton. 2,638,887, May 19.
Groundworking machine. C. E., K., and R. C. Ferguson. 2,638,831, May 19.
Guardrail for stoves, Vented. D. P. O'Keefe. 2,638,893, May 19.
Gun perforator actuator. T. C. Bannon and L. Spencer. 2,638,981, May 19.
Gun with vertically slidable breech block, Lever operated. W. B. Morris. 2,638,694, May 19.
Gutter joint sealing means. R. E. Bowles. 2,638,858, May 19.
Hammering device, Electropneumatic. O. Sparano. 2,638,749, May 19.
Halodiethylbenzenes. E. T. McBee. 2,639,299, May 19.
Hand stick for use in producing type matter photographically. H. R. Freund. 2,638,824, May 19.
Hanger: *See*—
  Garment hanger. Telephone handset hanger.
  Slide-on welt drapery hanger.
Headlamp, Manually rotatable and tiltable. A. F. Chiuzzi. 2,639,367, May 19.
Heat exchanger, Fluid to fluid. G. B. R. Feilden and R. E. Wigg. 2,639,125, May 19.
Heat or flame detecting elements, Making. D. R. Squier. 2,639,247, May 19.
Heat-treated alkali-metal carboxymethyl cellulose and preparing it. E. S. Elliott. 2,639,239, May 19.
Heat-treating apparatus. J. A. Dow. 2,639,138, May 19.
Heat-treating combustible solids. W. W. Jukkola. 2,638,684, May 19.
Heat-treating element for heat-treating furnaces. J. A. Dow. 2,638,889, May 19.
Heater: *See*—
  Electric heater.
Heater and incinerator unit, Combination space and water. G. L. C. Earle. 2,638,891, May 19.
Heater having extensive heat transfer surfaces, Water. A. Lemos, Jr., and R. Cunningham, Jr. 2,638,878, May 19.
Heater with fan and support therefor, Annular core automobile. H. Stein. 2,639,124, May 19.
Heating-control appliance. C. C. Doyle. 2,639,364, May 19.
Heating control system. A. H. Cubberley. 2,639,095, May 19.
Helical spring valve. T. P. Monahan. 2,638,925, May 19.
Hem guide. L. G. Johnson. 2,638,672, May 19.
High receiving and low servicing antenna mounting. D. N. Thompson and W. B. Harris. 2,639,381, May 19.
High vacuum diffusion pump. B. B. Dayton. 2,639,086, May 19.
High-voltage terminal connector. F. G. Street, Jr. 2,639,313, May 19.
Hinge and support, Lid balancing. W. O. Burke. 2,638,621, May 19.
Holder: *See*—
  Bag holder. Meat knife holder.
  Cigarette holder. Mop holder.
  Dry seal piston-type gas holder. Nursing bottle holder.
  Roll holder.
  Grapple holder. Trash can holder.
Holder for replaceable paper rolls. W. E. Gough, Jr. 2,639,099, May 19.
Hotel lock, L. Gutman. 2,638,770, May 19.
Housing for electrical apparatus, Making. E. Simon, F. W. Thomas, and E. H. Burkart. 2,639,252, May 19.
Hybrid ring. W. D. Lewis. 2,639,325, May 19.
Hydraulic control apparatus for internal-combustion engines and variable pitch propellers. J. S. Woodward. 2,638,993, May 19.
Hydraulic system for driving the rotation of sundry members in machines for the working of skins and hides. E. Gianoglio. 2,638,769, May 19.
Hydrocarbon process. R. M. Kennedy and A. Schneider. 2,639,261, May 19.
Implement for use in chemical apparatus. C. H. Prescott, Jr. 2,639,074, May 19.
Index unit, Visible. R. Janovsky and S. Hurttig. 2,638,903, May 19.
Indicator: *See*—
  Low tire indicator. True air speed indicator.
  Rate of rise-dive indicator.
Indicator for plug-cock type of valves, Rotation. J. E. Stott. 2,639,118, May 19.
Indicator selecting and lock-in circuit. P. Mallery. 2,639,415, May 19.

Indoor marble playing ring. W. A. Kennon. 2,639,151, May 19.
In-line steam trap. J. W. Kaye. 2,638,913, May 19.
Insecticides. R. H. Wellman and R. W. McNamee. 2,639,259, May 19.
Insert for cartons, Article holding. H. L. Metzger. 2,639,081, May 19.
Insignia mount. G. F. Felton. 2,638,867, May 19.
Instrument, Drawing. C. J. Worth. 2,638,674, May 19.
Instrument, Measuring. D. McSkimmon. 2,638,679, May 19.
Instrument, Variable precision measuring. P. Darabaris. 2,638,678, May 19.
Insulating flexible splicer core for plural cable joints. D. G. Kerwin. 2,639,312, May 19.
Insulator, Electrical. K. M. Van Gessel. 2,638,660, May 19.
Intercooperative system for airborne and surface carriers. O. Brown. 2,639,107, May 19.
Internal reverse taper expanding bit reamer. G. L. White. 2,638,948, May 19.
Iron shear and separator. J. A. Ross. 2,638,985, May 19.
Joint of dissimilar metals, Welded. P. M. Brister and L. F. Koolstra. 2,639,363, May 19.
Kite float for the head ropes of fishing nets. J. W. Phillips. 2,638,695, May 19.
Lasting machine. P. E. Burby. 2,638,610, May 19.
Latch: *See*—
  Door latch. Flush latch.
Latch for grass shears. O. G. Steede. 2,638,669, May 19.
Latch mechanism. E. B. Jacobson. 2,639,182, May 19.
Leg for beds and the like, Adjustable. H. R. Evans. 2,638,607, May 19.
Lens mounting and film support for microfilm apparatus. V. E. Pratt and G. F. Gray. 2,638,812, May 19.
Lever actuated slidable jaw wrench. H. E. Arnold. 2,638,808, May 19.
Lifter for cooking utensils. V. M. Watts. 2,639,184, May 19.
Light: *See*—
  Airport runway marker light.
Lighter, Friction type. W. d'Alton. 2,638,763, May 19.
Lighting fixture with drop hinged cover, Recessed. R. Pryne. 2,639,368, May 19.
Lightweight aggregates, Producing. J. B. Dube. 2,639,269, May 19.
Limiting the supply of fuel to continuous combustion turbine engines during accelerations of the latter, Means for. F. H. Carey. 2,638,742, May 19.
Liner for rubber sheeting. E. Gurin and K. Fox. 2,639,249, May 19.
Liquid suction device. W. Gerstmann. 2,639,005, May 19.
Loader, Power actuated conveyer type. R. D. MacDonald. 2,639,022, May 19.
Loading machine. R. H. Goodrich. 2,639,023, May 19.
Lock: *See*—
  Axle and differential lock. Doorknob actuated lock.
  Car door lock. Hotel lock.
Locking device for registering apparatus of weighing scales, Fluid pressure operated. A. van Duyn. 2,639,136, May 19.
Lockseamer for corrugated radiator core blanks. A. G. Vogt. 2,638,861, May 19.
Locomotive, Railroad. F. B. Yingling. 2,638,798, May 19.
Longitudinal delivered rotary impact tool. J. C. Sharman. 2,638,807, May 19.
Loom: *See*—
  Pile fabric loom.
Loom for weaving. T. Hindle. 2,638,941, May 24.
Loom temple. T. Hindle. 2,638,938, May 19.
Low permeability separable fastener. L. H. Morin. 2,638,651, May 19.
Low-tire indicator. A. C. Cope. 2,639,342, May 19.
Lubricating grease comprising a complex ester base and sodium myristate. J. P. Dilworth and C. H. Culnane. 2,639,266, May 19.
Lubricating mechanism, Neck pin. O. E. Rowe. 2,638,718, May 19.
Lubricator: *See*—
  Railway axle box lubricator. Railway axle journal lubricator.
Machine for binding books. S. M. Penner. 2,638,609, May 19.
Machine for heat-sealing thermoplastic materials. E. J. Andina. 2,638,964, May 19.
Machine for inking the edges of soles and heels of shoes. G. S. Shaak. 2,638,869, May 19.
Machine for making coaxial cable. P. C. Emard. 2,638,859, May 19.
Machine for making corrugated paper. C. D. Nitchie. 2,638,962, May 19.
Machine for orienting and driving longitudinally asymmetrical headless fasteners. L. E. Austin. 2,638,945, May 19.
Machine for producing type faced impressions in or for printing. H. G. Croucher. 2,639,017, May 19.
Magnetron circuit. E. Everhart, M. A. Herlin, and A. G. and W. V. Smith. 2,639,404, May 19.
Mandrel. I. A. Rimmel. 2,638,722, May 19.
Marking textile articles. H. Meyer. 2,639,256, May 19.
Marking textile articles, Means and method of. H. Meyer. 2,639,255, May 19.
Mask, Welding. C. L. Olson. 2,638,592, May 19.
Masking device for crystals. A. W. Warner, Jr. 2,639,392, May 19.
Matrices for molding rubber printing blocks, Making. R. C. Perkins. 2,638,845, May 19.
Mattress filling machine. M. Goldberg. 2,639,073, May 19.
Means including a winding shaft and a roller for mounting and collapsing tubular containers. A. S. Durham. 2,639,059, May 19.
Measuring apparatus, Relative humidity. E. S. Rittner and S. Fine. 2,638,783, May 19.
Meat knife holder. N. A. Merritt. 2,639,038, May 19.
Mechanism for feeding cylindrical articles into a centerless grinder. H. C. Edwards. 2,638,723, May 19.
Melamine-formaldehyde resinous composition with filler. A. A. Varela. 2,639,277, May 19.
Melamine transfer. T. S. Reese. 2,639,253, May 19.
Metal finishing method. M. B. Vordahl, R. H. Grace, and P. H. Eccleston. 2,639,244, May 19.
Metal powder, Method and apparatus for the production of. H. A. Golwynne. 2,638,627, May 19.
Metal powder, Production of. H. A. Golwynne. 2,638,630, May 19.
Meter: *See*—
  Weighing meter.
Mirror and thermometer for motor vehicles, Combined rearview. M. C. Vacanti and C. Granata. 2,638,785, May 19.
Missile launcher, Centrifugal hand. H. B. Grow. 2,638,708, May 19.
Mixer closure. C. Gerst. 2,639,128, May 19.
Mixer for use in conjunction with a carburetor, Fuel and air. M. Lefebre. 2,639,230, May 19.
Model helicopter, Remote-controlled. R. L. Baker. 2,638,707, May 19.
Mold: *See*—
  Tire mold.
Mold disk driving mechanism for tynographical casting machines. P. Hilpman. 2,638,792, May 19.
Mold parting surface and application. R. M. Barth. 2,639,213, May 19.
Molding. D. Glazer. 2,638,632, May 19.
Molding of resin dispersions. A. A. Root. 2,638,633, May 19.
Monomethylpiperazines, Preparing. H. Morren. 2,639,284, May 19.
Mop holder. C. Fatland. 2,638,616, May 19.
Motor: *See*—
  Fluid motor.
Mount for outboard motors, Vertically adjustable. L. A. Klebier, D. D. Aldrich, and D. W. Weller. 2,638,863, May 19.
Mounting: *See*—
  Antivibration mounting. Refrigerating unit mounting.
  Cab mounting.
  High receiving and low servicing antenna mounting.
Mounting and holder for piezoelectric crystals. A. W. Birt and J. W. Richardson. 2,639,393, May 19.
Mounting for pastry strip cutter wheels. F. H. Hubbard. 2,638,856, May 19.
Mounting 35-millimeter slides to prevent film buckle during projection. R. C. Smith. 2,639,254, May 19.
Mouthpiece for machines for packing cigarettes and like articles. C. T. Hall. 2,639,071, May 19.
Multichannel telemetric system. D. H. Harris. 2,639,410, May 19.
Multiple disk friction clutch. C. Meschia. 2,639,013, May 19.
Multiple strand thermal pull wire unit. P. Sitzer. 2,639,190, May 19.
Mushroom trimming machine. W. G. Blevins, Sr., R. A. Coleman, and J. Mills. 2,638,949, May 19.
N-substituted derivatives of 4-amino-2-hydroxybenzoic acid, Producing. K.-G. Rosdahl. 2,639,294, May 19.
Nail holding and positioning device. L. S. Harris. 2,638,591, May 19.
Needle, Flared exit phlebotomy. E. J. Poitras. 2,638,807, May 19.
Noise compressor. M. A. Karpelea. 2,639,386, May 19.
Noncreeping metallic belt. F. R. Schmitt. 2,639,025, May 19.
Nonfoggy moistureproof sheet. R. T. K. Cornwell. 2,639,241, May 19.
Nonskid attachment. J. D. Anderson. 2,638,954, May 19.
Nursing bottle holder. S. A. Wells. 2,639,111. May 19.
Nylon powder, Preparing finely divided. L. L. Stott and L. R. B. Hervey. 2,639,278, May 19.
Offset damping of electrical measuring instruments. H. A. Bakke. 2,639,307, May 19.
Oil solutions of high molecular weight polymers, Process and apparatus for preparing. H. H. Vickers and S. E. Jaros. 2,639,275, May 19.
Opener, Can. E. Mayo and H. F. Goon. 2,638,666, May 19.
Optical projection display system. C. W. Miller. 2,639,421, May 19.

Organopolysiloxanes of improved adhesion containing peroxides. R. Smith-Johannsen and C. S. Oliver. 2,639,276, May 19.
Ornamental bird having rotatable wings. A. W. Petcasy. 2,638,705, May 19.
Oscillator, Crystal controlled. J. S. Bell. 2,639,387, May 19.
Overload release coupling. R. C. Rayner. 2,638,762, May 19.
Pad: *See*—
  Shoulder pad.
Pad attachment for bed couches. R. O. Garrigus, Sr. 2,638,608, May 19.
Pallet. W. W. Cushman. 2,639,112, May 19.
Pallet stack unloader. J. B. Thomas. 2,639,051, May 19.
Palletizing support. G. A. Hoffmann, Jr. 2,639,050, May 19.
Pan liner. P. Thompson. 2,639,212, May 19.
Panty structure or the like, Baby. L. Gruenberg and H. Fletcher. 2,638,900, May 19.
Parking device, Automobile. C. M. Tatosian. 2,639,046, May 19.
Parking device, Vehicle. G. A. Gottlieb. 2,638,995, May 19.
Patching automobile inner tubes. L. M. Everett, Sr. 2,638,961, May 19.
Pen layout, Livestock. J. R. Macdonald. 2,638,870, May 19.
Pen with cartridge barrel, Fountain. F. D. Woods. 2,638,873, May 19.
Photoflash equipment for multiple flash. M. Schwartz and W. Castedello. 2,638,764, May 19.
Photographic film, Antistatic. D. R. Morey and W. R. White. 2,639,234, May 19.
Photographic processing apparatus. A. J. Bachelder and O. E. Wolff. 2,638,828, May 19.
Photographic product for forming a transfer image. E. H. Land. 2,639,233, May 19.
Photosensitive detection apparatus. C. Sundstrom and P. L. Fairbanks. 2,639,418, May 19.
Picture hanging bracket. M. R. Hoag. 2,639,109, May 19.
Pile fabric loom. S. P. Parker. 2,638,934, May 19.
Pilot bit for earth augers. G. A. Petersen. 2,639,122, May 19.
Pipe-line switch and diverter, Combined. T. J. Glaza. 2,639,196, May 19.
Pipe repair sleeve. E. L. Condra. 2,638,987, May 19.
Pipette, burette, and the like. E. E. and E. J. Flaig. 2,638,787, May 19.
Piston assembly for axial type hydrodynamic machines. W. Ferris. 2,638,850, May 19.
Plant packer. A. D. Edwards. 2,638,713, May 19.
Plate apparatus and press. B. G. Newhall. 2,639,126, May 19.
Platen construction, Printer. R. P. Leavitt and W. M. White. 2,638,827, May 19.
Platform adjusting means, Swather. A. P. Balzer and J. A. Stoesz. 2,638,728, May 19.
Platform, Truck body. E. S. Grumbache. 2,639,187, May 19.
Plow for the removal of snow, Rotary. F. F. Wallack. 2,638,691, May 19.
Pocket ionization chamber. O. G. Landsverk. 2,639,389, May 19.
Portable steam cleaner. P. T. Krampe and J. J. Hanzlik. 2,639,365, May 19.
Potassium bromide for photographic developers, Noncaking. E. S. Wiltala and W. J. Rogers. 2,639,219, May 19.
Power supply system for self-propelled vehicles. H. H. Vanderzee. 2,638,990, May 19.
Preservation of ether. E. Mallinckrodt, Jr., and A. E. Ruehle. 2,639,243, May 19.
Press feed, Blank forming. J. R. Baumgartner. 2,638,821, May 19.
Pressing machine, Automatic ware. J. Jordan. 2,638,654, May 19.
Pressure equalizer. E. L. Alexander. 2,638,932, May 19.
Pressure fluid operated pressure intensifier. E. A. Rockwell. 2,638,747, May 19.
Printing and feeding apparatus for wire stitcher machines, Ticket. J. G. Mackechnie, Jr. 2,638,822, May 19.
Printing apparatus, Rotary photogravure. A. M. Halley. 2,638,844, May 19.
Printing machine, Rotary photogravure. A. M. Halley. 2,638,843, May 19.
Producing piled fabrics, Method and apparatus for. P. H. Storrs. 2,638,933, May 19.
Program control apparatus. W. B. Dolph. 2,638,980, May 19.
Proportional, convection warming and circulating system. R. Cones. 2,638,834, May 19.
Protecting the walls of vessels containing fluent granular solids. R. E. Bland. 2,639,215, May 19.
Protector: *See*—
  Tire valve stem protector.
Protractor for matching aircraft propeller blades, Averaging. J. G. Baker. 2,638,680, May 19.
Pulse analyzer. A. M. Stone. 2,639,377, May 19.
Pump: *See*—
  High vacuum diffusion pump. Sirup pump.
  Railway journal lubricator pump. Vacuum pump.
Pump. S. J. Budiane. 2,638,849, May 19.
Pump. F. J. MacKenzie. 2,639,084, May 19.
Pump and motor, Hydraulic. E. H. Johnson. 2,638,848, May 19.
Pump assembly, Well driller cleanout. A. S. Soberg and A. Christensen. 2,638,851, May 19.
Punching machine, Portable. C. E. Emmer. 2,638,986, May 19.
Purification of aromatic hydrocarbons. F. P. Hazlett. 2,639,304, May 19.
Quick closing valve. G. W. Perry. 2,638,918, May 19.
Rack: *See*—
  Commodity display rack.
Rack attachment for shelves. E. E. Tapley. 2,639,040, May 19.
Rack for dishwashers. W. R. Walker. 2,638,910, May 19.
Rack for trailers, Gas bottle. L. B. Obenchain. 2,639,208, May 19.
Rack operating mechanism, Broiler. J. F. Corn, Jr. 2,638,894, May 19.
Radar contrast control system. R. Sherr. 2,639,423, May 19.
Radar echo-ranging method and system, Forward. D. B. Harris. 2,639,422, May 19.
Radar reflector. D. J. McAuley, H. E. G. Richards, and E. W. Clark. 2,639,426, May 19.
Radar system for moving target indication. B. E. Watt. 2,639,420, May 19.
Radial cylinder engine. H. C. Dunning. 2,638,876, May 19.
Radiation detecting device. S. A. Scherbatskoy. 2,639,390, May 19.
Radio pulse echo object locating system. I. A. Getting. 2,639,424, May 19.
Radio receiver, Signal seeking. H. C. Goodrich, Jr. 2,639,374, May 19.
Rail clamp for machine tools. J. M. Walter. 2,638,659, May 19.
Railroad fissure detector car. C. W. and R. W. McKee. 2,639,316, May 19.
Rail trailer carrier. J. A. Bannen. 2,638,852, May 19.
Railway axle box lubricator. J. J. Hennessy. 2,639,200, May 19.
Railway axle journal lubricator. J. J. Hennessy. 2,639,202, May 19.
Railway journal lubricator pump. J. J. Hennessy. 2,639,201, May 19.
Rate of rise-dive indicator. P. B. Levitt and J. D. Morgan. 2,638,780, May 19.
Ratio drive for metering or proportioning pumps. G. H. McGowan. 2,638,847, May 19.
Razor blade magazine. J. M. Anstin. 2,639,029, May 19.
Reaction products of cupric chloride and amino hydroquinone ethers and process. J. Mahler. 2,639,290, May 19.
Receptacle closure and dispensing device, Combination. R. E. Gunther. 2,638,633, May 19.
Receptacle filling and liquid level control system. H. R. Karlen. 2,639,078, May 19.
Record lifting mechanism for automatic phonograph record players. E. J. Collins. 2,639,154, May 19.
Recorder, Magnetic. H. A. Howell and E. B. Offutt. 2,639,333, May 19.
Recording apparatus. S. E. Gamarekian. 2,639,209, May 19.
Recording decelerometer. A. F. Robertson and J. R. Tallackson. 2,639,210, May 19.
Reel drive and control mechanism. R. T. Hair. 2,639,101, May 19.
Reel driving and control mechanism. J. W. Woolf. 2,639,336, May 19.
Reeling mechanism for power conductors. C. F. Ball. 2,639,102, May 19.
Refill unit for blade magazines. J. Muros. 2,639,030, May 19.
Refining oils. R. M. Kennedy and A. Schneider. 2,639,260, May 19.
Refining oils. R. M. Kennedy and A. Schneider. 2,639,262, May 19.
Refrigerant plate. H. W. Kleist. 2,638,754, May 19.
Refrigerating unit mounting. R. W. Doeg. 2,638,753, May 19.
Refrigeration using conjugate solutions. L. E. Mills. 2,638,760, May 19.
Regulator: *See*—
  Frequency regulator.
Remote control toy vehicle. J. M. Jackson. 2,638,712, May 19.
Removal of halide ions from chromate liquors. R. G. Banner. 2,639,216, May 19.
Repair patch for rubber articles. W. Gruber. 2,638,955, May 19.
Resin-dyes of the cyanine type. R. H. Sprague, L. G. S. Brooker, and S. G. Dent, Jr. 2,639,282, May 19.
Return bend for fired coils. H. M. Becnel. 2,639,127, May 19.
Ridge reamer. H. R. Billeter. 2,638,799, May 19.
Ring: *See*—
  Hybrid ring.
  Indoor marble playing ring.
Roaster, Coffee. P. T. Clary. 2,639,133, May 19.
Rocking chair. P. A. Joncas. 2,638,968, May 19.

Roll holder. B. A. Gustafson and J. H. Wahlbeck. 2,639,104, May 19.
Roller device for moving heavy objects. D. F. Jorgensen. 2,639,164, May 19.
Roller drive chain. E. E. Perren. 2,638,790, May 19.
Rotary expansion engine. G. E. Mallinckrodt. 2,638,880, May 19.
Roter blade attachment means and method. H. A. Greenwald. 2,639,119, May 19.
Rotor blade with airflow control, Aircraft sustaining. H. F. Pitcairn. 2,638,990, May 19.
Rotor head. M. D. Bulvid. 2,638,994, May 19.
Ruling and striping device. C. E. Burckel. 2,638,673, May 19.
Safety battery connector switch. G. G. Truax. 2,639,341, May 19.
Safety device for transformers with expansion tanks. L. J. Egger. 2,639,308, May 19.
Safety device for transformers with oil reservoir. L. Egger. 2,639,309, May 19.
Sander. J. W. Coveney. 2,639,175, May 19.
Sandwich machine for applying coatings to bakery goods. H. P. Curlee. 2,638,868, May 19.
Sash fastening means. M. J. Montalbano. 2,639,176, May 19.
Saw guard, Chain. A. Woleslagle. 2,638,944, May 19.
Sawhorse, Portable. J. L. Chelsea. 2,639,197, May 19.
Scale, Optical viewing and projecting computing weighing. A. van Duyn. 2,638,813, May 19.
Scoop, Ice-cream. L. R. J. McCoy, Jr. 2,638,857, May 19.
Screw driver and functional elements thereof, Reversible impact driving. J. F. Spielman. 2,638,806, May 19.
Sealing strip. L. Spraragen. 2,638,642, May 19.
Sealing wrappers, Method of and apparatus for. V. P. Harvey. 2,638,724, May 19.
Seat assembly, Infant's swing. R. F. Wardlaw. 2,638,966, May 19.
Seat mount, Tractor. W. F. Woodin. 2,638,965, May 19.
Securing cooling units in window boxes, Means for. W. F. Borgerd. 2,638,755, May 19.
Selector. G. f. Bellairs and J. C. Ireland. 2,639,417, May 19.
Selector switch. G. A. Kwasniewski. 2,639,338, May 19.
Self-supporting automatically operable tube cutter. C. E. Anderson. 2,638,667, May 19.
Self-throttling valve. J. J. Delany and E. C. Baisel. 2,638,929, May 19.
Separating and packaging of book matches. E. P. Olson. 2,639,070, May 19.
Separator member for use in packing articles for shipment. L. J. Budd. 2,693,032, May 19.
Setting or testing hydraulic shock absorbers, Means for. F. A. D. Sadler. 2,638,777, May 19.
Shaft alignment device. J. E. Callahan. 2,638,676, May 19.
Shaftless electrical control instrumentality. W. H. Budd and A. M. Daily. 2,639,358, May 19.
Shaft seal apparatus. D. Johnson. 2,639,171, May 19.
Shelf attaching and supporting means. T. M. Dunham. 2,639,043, May 19.
Shim and gasket, Combined. F. W. and R. G. Farnam. 2,639,174, May 19.
Shock absorber for railway draft riggings, Friction. H. W. Mulcahy. 2,639,044, May 19.
Shock-absorbing mechanism. G. O. Gabriel. 2,639,141, May 19.
Shoe squeak eliminator. R. B. Moore. 2,638,611, May 19.
Shoe stiffener and making same. G. E. Ehle. 2,639,240, May 19.
Shopping establishment. E. A. Pool. 2,638,636, May 19.
Shoulder pad. W. Riedler and B. Mechur. 2,638,603, May 19.
Sifting and straining device. J. Pearlstein. 2,639,035, May 19.
Signal: *See*—
Turn signal.
Signal flare and marker buoy, Automatic. M. Sesera. 2,639,106, May 19.
Signal seeking receiver. H. C. Goodrich, Jr. 2,639,373, May 19.
Signal seeking tuner. O. E. Colgan. 2,639,372, May 19.
Silo, Self-feeder. D. W. Ruedemann. 2,638,871, May 19.
Sine bar. A. H. Sheriff. 2,638,677, May 19.
Sirup pump. J. J. Yuza. 2,639,063, May 19.
Skid lift. R. Aberle. 2,639,150, May 19.
Slicing machine, Food. H. G. Menssen. 2,638,950, May 19.
Slide fastener construction. M. Breier. 2,638,650, May 19.
Slide-on welt drapery hanger. M. Hardwick. 2,638,977, May 19.
Sliding shelf or drawer support. H. J. M. Lambert and G. P. Mongin. 2,639,042, May 19.
Slingshot gun. J. R. Keadle. 2,638,885, May 19.
Slip with adjustable shoulder straps, Infant's. R. Abramson. 2,638,598, May 19.
Snubbing means for railway car truck springs. G. E. Dath. 2,638,853, May 19.
Sodium and potassium hydroxide for photographic developer powders, Noncaking. R. W. Henn. 2,639,221, May 19.
Sodium sesquicarbonate from crude trona, Production of. R. D. Pike. 2,639,217, May 19.
Soil conditioner. R. A. Kropp. 2,638,830, May 19.
Solution polymerization employing aqueous solutions of aromatic sulfonates. J. R. Caldwell. 2,639,279, May 19.
Speed-controlled actuating device. H. E. Sloan. 2,639,135, May 19.
Spindle device, Double twist throwing. L. Sabaton. 2,638,732, May 19.
Spindle for rotating cutting reel type mowers, Wheel supporting. A. Bourg. 2,638,729, May 19.
Sprayer. L. Fletcher and W. Dickison. 2,639,192, May 19.
Spring biased actuator. G. W. Carlson. 2,639,139, May 19.
Spring closed pivoted gate liquid loading valve. R. W. Hogard. 2,639,117, May 19.
Spring counterbalancing means for the covers of cabinets. C. B. Ulrich. 2,639,053, May 19.
Spring device, Variable rate. M. Frenkel. 2,639,140, May 19.
Spring structure. J. T. Clark. 2,638,896, May 19.
Spring suspension assembly, Tractor front wheel. F. W. Winters. 2,639,165, May 19.
Sprinkler head and nozzle. J. O. Hruby, Jr. 2,639,191, May 19.
Sprocket enclosing system. H. N. Fairbanks. 2,639,147, May 19.
Stabilization of fats and oils with 2,5-dihydroxyphenyl dimethyl carbinol and related antioxidants. A. Bell and D. J. Shields. 2,639,288, May 19.
Stabilizing semiconductor material. W. C. Dunlap, Jr. 2,639,240, May 19.
Staining embossing plates. H. M. Gadberry and E. Peterson. 2,639,226, May 19.
Staed: *See*—
Dental equipment stand.
Steaming apparatus. E. V. Quinn. 2,638,765, May 19.
Steering mechanism, Hydraulic power. H. W. Hockwell. 2,638,998, May 19.
Step-up mechanism. M. J. Binks and A. A. Samolis. 2,638,789, May 19.
Stoma receiver. M. Perry. 2,638,898, May 19.
Stool, Adjustable. A. Restivo. 2,638,969, May 19.
Stool-easel, Knockdown. F. C. Holbrook. 2,638,702, May 19.
Stop motion attachment for looms, Head and batten. J. C. Case. 2,638,940, May 19.
Storage and baler cabinet. B. R. Friend. 2,639,037, May 19.
Strain insulator for damping line vibration, Oil-filled. L. F. Hunt. 2,639,310, May 19.
Strain measuring circuit. F. L. Holford. 2,638,780, May 19.
Strapped multicavity magnetron. P. D. Crout. 2,639,403, May 19.
Stretch breaking apparatus and method. D. G. C. Hare. 2,638,634, May 19.
Strip stock from polyhexamethylene adipamide, Production of. L. L. Stott and P. L. Shurr. 2,638,631, May 19.
Structural member. A. J. Fitzgerald. 2,639,012, May 19.
Structure for mounting excavating and pipe and cable laying means on tractors. A. S. Kinsinger. 2,638,832, May 19.
Stylus assembly, Double-twist phonograph. W. W. Ward. 2,639,156, May 19.
Styrene, alpha methyl styrene, drying oil fatty acid interpolymers. G. A. Griess and A. S. Teot. 2,639,272, May 19.
Styrene, alpha methyl styrene, drying oil modified alkyd resins. G. A. Griess and C. V. Strandskov. 2,639,271, May 19.
Styrene modified alkyd resins. G. A. Griess and C. V. Strandskov. 2,639,270, May 19.
Submerged flame burner. N. Swindin. 2,638,895, May 19.
Sulfide coating. J. E. Baxter. 2,639,245, May 19.
Sulfonated phenol formaldehyde condensation product and making same. R. A. Salathiel. 2,639,274, May 19.
Sunshield with depending visor. V. K. Elorantn. 2,638,593, May 19.
Support: *See*—
Curtain and drape support.
Palletizing support.
Sliding shelf or drawer support.
Weaving loom cloth beam support.
Support for ice-cream containers and the like. W. A. Daniels. 2,639,039, May 19.
Support structure for stockings. B. Binkowitz. 2,638,602, May 19.
Supporting base for pinball machines, Collapsible adjustable. O. E. Allen. 2,639,114, May 19.
Surgical clamp. E. D. Sugarbaker. 2,638,901, May 19.
Sweep circuit. C. W. Sherwin. 2,639,402, May 19.
Switch: *See*—
Combination dimmer and direction switch.
Electric switch.
Safety battery connector switch.
Selector switch.
Switch actuating mechanism for stand lamps, Mercury. E. S. Boynton. 2,639,369, May 19.
Switch structure for electrically operated valves, Interlocking. C. C. Young. 2,639,094, May 19.
Switching device, Thermostatic. R. A. Watson. 2,639,352, May 19.
Syringe cleaner. W. A. Johnson. 2,638,612, May 12.
Table or head positioning attachment for drill presses and the like. R. E. Frushour. 2,638,800, May 19.
Tank and stabilizer means, Collapsible. F. E. Smith and N. H. Friedman. 2,638,951, May 19.

Tank for heat-treating processes, Quench. W. C. Hiatt and W. B. Cheney. 2,638,909, May 19.
Tank type suction cleaner. L. L. Miller and H. S. Ryden. 2,639,002, May 19.
Tea extraction. W. R. Johnston, I. M. Reich, and G. E. Miller. 2,639,237, May 19.
Telegraph trunk and control circuits. L. A. Gardner and W. T. Rea. 2,639,320, May 19.
Telephone handset hanger. J. J. Fleming. 2,639,334, May 19.
Telephone system, Automatic. J. E. Ostline. 2,639,331, May 19.
Telescope, Reflecting. C. W. Keuffel, C. D. Hillman, A. L. Baker, and G. Geier. 2,638,814, May 19.
Temperature control of engine cooling. W. J. Pankuch and W. S. Gleeson. 2,638,881, May 19.
Temperature sensing device. R. S. Cesaro and R. J. Koenig. 2,638,784, May 19.
Tensioning device for cables, wires, etc. D. A. Howard and W. N. Matson. 2,638,648, May 19.
Testing device for irons. F. M. Murphy. 2,638,775, May 19.
Textile spinning, doubling, and twisting machine. J. J. Haythornthwaite and V. G. Pinner. 2,638,733, May 19.
Thermocouple, Annular. W. P. Wills. 2,639,305, May 19.
Thermometer, Vapor pressure. D. K. Bragg, W. F. Hickes, and H. A. Neuman. 2,639,189, May 19.
Thiazolylamines, Production of. C. W. Sondern and P. J. Breivogel. 2,639,285, May 19.
Thioacetic acid and dicetyl sulfide, Manufacture of. W. W. Crouch. 2,639,293, May 19.
Thiocyanogen containing compositions. H. F. Pfann. 2,639,267, May 19.
Thiocyanogen derivatives, Making. H. F. Pfann. 2,639,291, May 19.
Thiosemicarbazones of furylketenes. J. V. Scudi and F. E. Anderson. 2,639,287, May 19.
Tightening device for grain boxes and like structures. M. J. Nielsen. 2,638,047, May 19.
Timer for welding systems. E. C. Hartwig and R. F. Barrell. 2,639,361, May 19.
Tire mold. J. C. Heintz. 2,638,629, May 19.
Tire valve stem protecter. J. W. and J. B. Nelson. 2,638,956, May 19.
Tobacco appliance. S. A. Schramm. 2,638,906, May 19
Tool: *See*—
Circumferential tire slitting tool.
Longitudinal delivered rotary impact tool.
Wheel-changing tool.
Tool for locating strike plates, Marking. F. J. Russell. 2,638,682, May 19.
Tool trimming device. P. M. Hall. 2,638,817, May 19.
Top and coupling for barrels. G. D. Flaith and J. E. Smith, Jr. 2,638,914, May 19.
Torch. W. A. Sparks. 2,638,972, May 19.
Toy, Ornamental sounding. J. B. Tigrett. 2,638,711, May 19.
Toy, Walking figure. M. C. Mason. 2,638,709, May 19.
Traffic counter. G. R. Hall. 2,639,093, May 19.
Trailer, Collapsible. H. C. Brumbaugh. 2,639,185, May 19.
Trailer hitch. R. H. and D. E. Studebaker. 2,639,160, May 19.
Trailer supporting and steering dolly and weight equalizer. C. L. Milligan and C. D. Swaim. 2,639,159, May 19.
Trailer tongue and adjustable hitching stand therefor. O. R. Gruber. 2,639,120, May 19.
Trailer truck tandem axle spring suspension. F. A. Jones. 2,639,166, May 19.
Transducer devices having bonded elements, Making. A. Szegvari and C. K. Gravley. 2,639,257, May 19.
Transformer protective apparatus. E. H. Yonkers. 2,639,346, May 19.
Transformer, Universal sweep and high-voltage. C. E. Torsch. 2,639,319, May 19.
Transmission. J. P. Rogers. 2,638,791, May 19.
Transmission brake servomotor. S. V. Hettinger, Jr. 2,638,750, May 19.
Transmission control system. A. and M. P. Winther. 2,638,793, May 19.
Transmission, Variable-speed. H. B. Black. 2,638,796, May 19.
Transmitter for perforated tape records, Teleprinter. H. Wösteney. 2,639,323, May 19.
Transmitter, Rotating-field pulse. D. B. Parkinson. 2,639,332, May 19.
Truck for railway cars, Articulated. J. H. Olson. 2,639,173, May 19.
Truck, Store service. S. N. Goldman. 2,639,161, May 19.
True air speed indicator. S. L. Leach. 2,638,782, May 19.
Trap: *See*—
Gopher trap.
In-line steam trap.
Trash can holder. S. E. Kriz. 2,639,113, May 19.
Traversing mechanism. W. W. Farrar. 2,639,105, May 19.
Tray, Display. W. G. and C. W. Michaelsen, W. H. Gerbode, and L. E. Dolan. 2,639,033, May 19.
Tray for vehicle bodies or the like, Tool. H. N. Luby and C. A. Weling. 2,639,068, May 19.
Treating dry, hydrophilic protective colloids. H. L. Heiss. 2,639,268, May 19.
Treatment of acid waste liquors. E. S. Tanski. 2,639,222, May 19.
Trough, Feed. C. A. Potter. 2,638,872, May 19.
Tube: *See*—
Electronic tuning or indicating tube.
Gas discharge tube.
Tunable magnetron tube.
Tunable magnetron tube. F. H. Crawford. 2,639,406, May 19.
Tuning aid for high fidelity radio receiving systems and the like. B. S. Vilkomerson. 2,639,375, May 19.
Turbine blades, Making. K. M. Bartlett and N. J. Connavino. 2,638,663, May 19.
Turbine having reheating means and specially shaped rotor and stator blades to provide isothermal expansion, Axial flow gas. H. M. Putman, Jr. 2,638,741, May 19.
Turbine power plant having auxiliary units. N. C. Price. 2,638,744, May 19.
Turbine power plant, Internal combustion. H. Sammons. 2,638,740, May 19.
Turn signal. H. P. Donley. 2,639,343, May 19.
2-hydroxy-1,6-hexanedial, Preparation of. R. R. Whetstone and S. A. Ballard. 2,639,297, May 19.
Two-speed reversible controller. H. J. Framhein. 2,639,337, May 19.
Tying device, Portable. C. E. Young. 2,638,714, May 19.
Type bar restraining mechanism for accounting machines. W. A. Anderson. 2,639,088, May 19.
Typewriter warning device. D. B. Brannen. 2,639,021, May 19.
Typographical casting machine. R. H. Turner. 2,639,027, May 19.
Typographical distributing machine. F. Hahn. 2,639,026, May 19.
Ultrahigh-frequency cavity resonator. G. S. Heller. 2,639,327, May 19.
Unsaturated aldehydes, Manufacture of. H. J. Hagemeyer, Jr. 2,639,295, May 19.
Urn, Beverage. S. J. Ralteri. 2,638,839, May 19.
Utensil, Scooping and measuring. W. R. Brevetti. 2,638,668, May 19.
Vacuum cleaner. C. E. Meyerhoefer. 2,639,001, May 19.
Vacuum filling stem. I. H. Risser. 2,639,077, May 19.
Vacuum pump. M. E. Johnson. 2,639,085, May 19.
Valve: *See*—
Automatic tank valve.
Fluid actuated valve.
Helical spring valve.
Quick closing valve.
Self-throttling valve.
Spring closed pivoted gate liquid loading valve.
Valve actuating mechanism. W. Mizen. 2,638,926, May 19.
Valve control means responsive to failure of either of two sources of fluid pressure, Automatic. A. Stadler. 2,638,928, May 19.
Valve control volume booster system, Pneumatic. H. L. Bowditch and A. R. Catheron. 2,638,875, May 19.
Valve for spray nozzles, Antidrip. F. W. Wahlin. 2,639,194, May 19.
Valve mechanism, Pilot controlled reversing. W. W. Paget. 2,638,923, May 19.
Valve structure. W. P. Green. 2,639,116, May 19.
Variable high-voltage electrical condenser. R. P. Gutterman. 2,639,315, May 19.
Vase, Concealed cemetery. J. Weaver, Jr. 2,638,717, May 19.
Vehicle: *See*—
Remote control toy vehicle.
Vehicle reel control. C. F. Ball and R. T. Hair. 2,639,103, May 19.
Vending machine. A. Zlska. 2,639,207, May 19.
Ventilator attachment for automobiles. H. N. Snyder. 2,638,833, May 19.
Ventilator, Roof. F. A. Strawsine. 2,638,835, May 19.
Vibrating device, Instrument. G. R. Larkin. 2,638,788, May 19.
Viscosimeter. E. P. Miller. 2,638,778, May 19.
Vise and bench, Lap. H. E. Bigelow. 2,638,805, May 19.
Vitreous enameling processes and products. A. E. Chester. 2,639,264, May 19.
Washing machine control, Automatic. J. H. Palmer. 2,638,766, May 19.
Water cooler. L. R. Erwin and J. B. Griffith. 2,638,751, May 19.
Water spraying and debris moving device. G. C. Davidson. 2,638,730, May 19.
Wave-guide isolation coupling system. W. C. Babcock and H. W. Nylund. 2,639,371, May 19.
Wavemeter, Wide-band. H. F. Mataré. 2,639,388, May 19.
Weaving loom cloth beam support. J. Picanol. 2,638,930, May 19.
Weft detector and stop motion for weaving looms. T. Hindle. 2,638,942, May 19.
Weighing meter. J. Lindstrom. 2,638,865, May 19.
Weight support and lifting device. J. P. Arnold. 2,638,657, May 19.
Welded corner post assembly. J. E. Candlin, Jr. 2,638,854, May 19.
Welding stainless steel. P. S. Viles. 2,638,665, May 19.
Well drilling apparatus. W. J. Williams. 2,638,988, May 19.

Well head. M. R. Jones. 2,639,169, May 19.
Wheel and track device. Spring actuated. J. O. Redlind. 2,639,152, May 19.
Wheel block and chock. D. A. Howard and W. N. Matson. 2,639,008, May 19.
Wheel-changing tool. C. Hudspeth. 2,639,121, May 19.
Wheel emergency equipment. F. Kember. 2,638,997, May 19.
Wind deflector, Auxiliary. C. Saurer. 2,639,188, May 19.
Winding device, Coil. K. C. Bugg. 2,638,943, May 19.
Winding filling bobbins in a loom and supplying them to the shuttle thereof, Method and means for automatically. W. V. Goodhue and R. E. Morton. 2,638,936, May 19.
Window air filter. R. E. McIntyre. 2,639,004, May 19.
Window construction. B. T. Ballard. 2,638,640, May 19.
Window sash, Frictionally controlled sliding. W. N. Carter. 2,638,639, May 19.
Window screen fitting. J. H. Oswald. 2,638,622, May 19.
Wire finishing method and apparatus. G. J. Stevens. 2,638,818, May 19.
Work holding and advancing device. G. P. Rothwell. 2,638,662, May 19.
Worm gearing, Electric motor-driven. C. J. Douglas. 2,639,394, May 19.
Wrapping machine, Paper roll. A. T. Hurter and A. C. Attendu. 2,638,725, May 19.
Wrench: *See*—
Lever actuated slidable jar wrench.
Wringer, Clothes. N. L. Etten. 2,638,768, May 19.
Wristband, Watch. T. Hirsch. 2,639,067, May 19.
Wristlet, Sponge rubber. H. Flink. 2,638,599, May 19.
Yarns and fabrics comprising the same, Making stable detwisted. M. M. Crux, Jr. 2,638,734, May 19.

CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number.

1— 47: 2,638,591
2— 8: 2,638,592
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Des. 167,631

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D35— 1: Des. 167,633
D44— 6: Des. 167,634
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D45— 4: Des. 167,592
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U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

HERRMANN v. OTKEN

No. 5914. Decided February 6, 1953.

(201 F.2d 909; 96 USPQ 403)

1. INTERFERENCES—ORIGINALITY—PRIORITY AWARDED TO PARTY WHO "INTELLECTUALLY DOMINATED" THE SITUATION.

Held that, although the appellant may have been the first to suggest certain features of the device forming the subject matter of the counts, the Board of Interference Examiners was correct in awarding priority to appellee since it was he, with his superior knowledge of the art, who finally determined which idea would prove successful, and it was he who supervised the reduction to practice and made suggestions which changed the results of the tests from defeat into a successfully operating machine.

2. SAME—PRIORITY OF INVENTION—APPARATUS FOR COATING FROZEN CONFECTIONS.

The decision of the Board of Interference Examiners awarding priority of invention of the counts in issue, directed to an apparatus for coating frozen confections, is affirmed.

APPEAL from Patent Office. Interference No. 83,827.

AFFIRMED.

Emanuel R. Posnack (*Almon S. Nelson* of counsel) for appellant.

John F. Robb and *John W. Robb* (*Clair W. Fairbank* of counsel) for appellee.

O'CONNELL, *J.*:

Appellant has here appealed from the decision of the Board of Interference Examiners of the United States Patent Office awarding to appellee priority of invention of certain subject matter pertaining to an apparatus for coating frozen confections and defined by the five counts in issue. The interference involves the application of appellee Otken filed November 10, 1948, and the patent to appellant Herrmann issued October 5, 1948, on an application filed June 4, 1948. The counts were copied from Herrmann's patent, of which counts 1 and 2 are sufficiently illustrative:

1. In an apparatus for covering, with a coating of solid particles, confections and the like having stems extending therefrom, a rack for holding said stems with the confection portions disposed on one side thereof, a rotatable drum for the coating material, and a motor connected to the drum; the drum having a peripheral wall and a plurality of spaced inwardly extending shelves disposed along the inner surface of the peripheral wall; the drum being further provided with an apertured portion, the rack being attached to the drum adjacent said apertured portion, whereby the stems operatively supported by the rack will extend through the apertured portion and the confection portions will be disposed within the drum.

2. In an apparatus for covering, with a coating of solid particles, a group of confections and the like, a rotatable container for the coating material, means for mounting the confections in fixed mutual relation within the container, and means for rotating the container and group of confections as a unit, whereby the coating material within the container will be deposited upon the confections.

Both parties took testimony in the summer of 1950, filed briefs, including a reply brief by Otken, and both were represented at final hearing. Otken assigned his rights to the invention to his employer, the Good Humor Corporation of Brooklyn, New York, hereinafter referred to as Good Humor, and Herrmann assigned his rights thereto to his former employer, Conveyor and Machinery Manufacturers, Inc., of New York City, hereinafter described as Conveyor, Inc.

The invention of the counts was conceived during a discussion between appellant and appellee at a conference in Otken's office in the Good Humor plant. Each of the parties maintains his first disclosure of the invention was to the other party. Both parties rely on the same reduction to practice. The issue thus raised is one of originality.

Many material statements made by one side are denied by the other. There is no dispute that the apparatus defined by the counts was designed for automatically coating frozen confections consisting of molded ice cream pops with granulated nut meats, including almonds, cocoanuts, and the like, and that the invention displaced the common practice previously employed by Good Humor over a period of years whereby confections frozen and impaled on a stick were rolled by hand in a tray of particles of granulated nuts. The board described the apparatus in the following succinct terms:

• • • The involved invention comprises a drum, similar to a cement mixer, having vanes or deflector blades mounted therein, and in which the granulated coating material is placed. A number of the confections, for example twenty four, are carried by a rack or stickholder which is insertable in a rectangular opening in the end of the drum with the confections extending into the drum. The drum is rotated slowly by means of a motor. As the drum rotates the blades carry the granulated material up and as it slides off of the blades it sprinkles or showers down over the confections uniformly coating the same. After the drum is given a few rotations it is stopped, the stickholder, carrying the coated confections, is removed from the drum, and the twenty four confections are then removed from the stickholder and inserted in paper bags, in which condition they are ready for disposal to the trade.

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Appellant's brief adds the following pertinent point as to the operation of the apparatus:

• • • In one aspect of the invention, the drum is rotated by means of a motor, and is stopped suddenly after one or more rotations. • • • When the drum is stopped suddenly, excess materials that have accumulated on the confections are shaken off. • • •

Certain unquestioned facts and circumstances otherwise surrounding the transaction between the parties and their assignees are subject to consideration in determining which one of the two parties would be the more likely because of his background and experience to have made the described invention. *Brady* v. *Atlantic Works*, 107 U. S. 192; *Barnet* v. *Wied*, 39 CCPA (Patents) 882, 892, 195 F.(2d) 311, 93 USPQ 161; *Gallagher* v. *Hastings*, 21 App. D. C. 88.

The old system for coating the granulated confections by hand was discarded by Good Humor at its Brooklyn plant after the season of 1947. Accordingly, the installation of entirely new equipment to mechanize the operations of the factory on a continuous basis was decided upon to expedite the volume of business and reduce the cost of production for the season opening early in 1948.

One part of the remodeling project called for an overhead conveyor for a chocolate tank utilized by Good Humor for dipping and coating the confections merely with chocolate. The tank was no part of its overhead conveyor and the order for the installation thereof was given by Otken, superintendent of Good Humor, to Bindery Developers, Inc., predecessor of Conveyor, Inc., with the result that appellant Herrmann put in time almost every day early in 1948 at the Good Humor plant constructing and installing the conveyor hereinbefore described. That device, which generally had been designed by Otken, was produced by Herrmann and those with whom he was associated.

One day during that period Herrmann and Otken discussed certain features of the overhead conveyor and Otken asked Herrmann if a vibrating unit containing granular material could be substituted for the chocolate dipping tank. After considerable discussion, it was concluded that a good coverage of granules could not be produced by this method.

A second conference took place in Otken's office a week or so later and the controversy herein had its origin there. In the meantime, Otken testified, the thought had come to him that an apparatus similar in action to that of a cement mixer would elevate the granulated particles in the drum and shower them down upon the confections impaled therein. Here is Otken's version, so far as material, as to what took place:

Q. 65. Proceed with your description as to the discussion that took place about the idea of this coating machine of the cement mixer type. With those present, will you tell us what was said and what was done, if anything, at that particular time? A. In this conference between Mr. Bader, Mr. Trinsch, Mr. Herrmann and myself, after considering the problem at hand and this discussion in reference to the cement mixer, I drew a sketch on a yellow pad of a rotary drum showing louvres inside the drum for taking the material up to the top of the drum and dropping it down in the shower.

Q. 66. Will you say what those louvres are a little more clearly? A. They are pieces, or lugs, approximately two inches—it would be two inches in practice—that run on the inside of the periphery of the drum and are spaced into this.

Q. 67. And rotate with the drum? A. And rotate with the drum.

Q. 68. Is that like the blades of a cement mixer, somewhat? A. Similar to it, yes, sir.

Q. 69. All right. Now proceed with your story. A. I remember this particular discussion, because the question came up as to the location of the bracket to be coated with this drum.

Q. 70. What do you mean by bracket to be coated? A. The stickholder holding the confections.

Q. 71. The location of that with respect to the drum? A. That is right. And I specifically remember our Mr. Bader making the suggestion that this stickholder be fastened in the outer periphery of the drum. After studying that suggestion, I told him that I didn't think it was practical for two reasons: One, that the stickholder would extend beyond the periphery of the drum and rotate with it and, to me, would become quite a hazard; secondly, that the Anderson stickholder, the way it is constructed and with the sight holes in it, would allow the coating material to sift through the sight holes and also the holes around the stick, and we would run into considerable difficulty in keeping the material in the drum.

Then I told him, "No; we will put the stickholder in the center of that drum," and I so indicated on the sketch.

Q. 72. What do you mean by center of that drum? A. Center of the one end wall opposite from the drive of the motor.

Q. 73. Continue. A. And to carry out this program I told Mr. Herrmann to build us one of these drums.

Q. 74. Wait a minute. Did you say you made a sketch of that? A. Yes, I made a sketch.

Q. 75. If I give you a piece of paper can you make a rough replica of that sketch? A. Yes.

Q. 76. Do you remember what kind of paper it was made on? A. Lined yellow paper.

• • • • • • •

Q. 96. Did Mr. Herrmann in due course of time deliver the drum unit? A. That is right, sir.

Q. 97. Was the motor equipment on the drum at the time of delivery? A. No.

Q. 98. Why wasn't the motor on the drum; if you know? A. After I had instructed our mechanic, Mr. Trinsch, to go to our warehouse with Mr. Herrmann to give him a motor to propel this drum, after the two arrived at the warehouse, Mr. Herrmann stated that he saw no purpose in taking another motor over to his plant, that he had already one motor over there of this type that he was using on the conveyor that he was building for us, and there was no point in carting a heavy motor to New York and bringing it back again.

Q. 99. What was the main purpose in having the motor, anyway, for use in building the drum? A. It was to rotate the drum.

Q. 100. Why did you have in mind using a brake motor? A. At the time of the building of this, the brake just happened to be incidental to the motor. That was the only type of motor that we had in stock that had a slow countershaft speed that would be applicable to this particular job, and the brake was just incidental to that motor. It was part of that particular motor.

Q. 101. Was it necessary that the drum be designed any way to fit the motor? A. Yes; to fit the countershaft of the motor, so that the drum could be applied directly to the countershaft of the motor.

Q. 102. And supported by the countershaft? A. That is right.

Q. 103. At the time that you discussed this drum unit construction with the sketch with Mr. Herrmann, did he make any suggestions concerning the unit? A. Not to my knowledge.

Q. 104. And at that time there was no production in your factory, was there? A. No.

Q. 105. You had not started up for the season? A. No.

Q. 106. Do you have the sketch that you gave Mr. Herrmann, Mr. Otken? A. No.

Q. 107. It was never returned to you? A. No.

Q. 108. Did you ever ask for its return? A. No.

Herrmann began working in the plant of Good Humor and the relations between the respective parties, their employees and associates were then on a basis of mutual cordiality. Later developments resulted in litigation between the parties in other tribunals respecting certain conveyors and services which appellant's firm had furnished to Good Humor. The latter paid $1500 for whatever service and equipment had been supplied by the former.

During the prosecution of the interference in 1950 the witnesses of each of the respective parties sufficiently corroborated their testimony in regard to the transactions of early 1948. Documentary and physical exhibits were likewise involved. Such a situation requires careful scrutiny of the evidence bearing in mind the tendency of witnesses, granting them to be of the highest character, to confuse knowledge acquired subsequent to an event with that acquired at the time the event occurred. *Deering* v. *Winona Harvester Works*, 155 U. S. 286; *Langevin* v. *Nicolson*, 27 CCPA (Patents) 1022, 110 F.(2d) 687, 45 USPQ 92.

Otken makes the following pertinent statement on the point under discussion:

Otken's automatic controls were on all factory operating machines, during April and May 1948 as installed by Outherman, the electrician, at the factory, and long before Herrmann's filing date of June 4, 1948. They were in use before drawings were even made later for purposes of his patent application. It is noteworthy as regards the above references to the record that Herrmann before his deposition personally heard Otken's testimony of the "rapid stopping action" of the motor • • •

In any event, Herrmann contends he built or suggested every essential element of the apparatus of the invention. The Board, however, held that it was not Herrmann but Otken who "intellectually dominated the situation":

That this is the correct conclusion is further borne out by the fact that although Herrmann had a Good Humor brake motor with its built-in proper speed-reducing gear in his shop, he suggested a ring gear for reducing the speed of a motor equipped with a magnetic brake. Herrmann also testified that the drum could be tipped to control the direction of the falling granules, yet the supporting stand, when delivered contained no adjustable means for controlling its tilt. This adjustable means was added later by Good Humor. If this idea was suggested by Herrmann, it would seem that he would have had the adjusting means on the supporting stand when it was delivered.

The Board in its long and carefully prepared opinion further analyzed and evaluated all of the contentions of the parties and the sharply contested evidence upon which they relied to support their arguments. [1] We have carefully considered the same, together with the facts and circumstances surrounding the involved transaction, and concur in the following conclusion which constitutes the basis of the award of priority to the party Otken:

For the foregoing reasons we are of the opinion and therefore so hold that there was an intermingling of ideas between Herrmann and Otken at the conference on February 9, 1948; and, for the reason that we have *assumed* Herrmann's adduced evidence correctly records the events, it may appear that Herrmann was the first to suggest the rotary drum with interior deflecting blades but it was Otken, with his superior knowledge with respect to ice cream confections, who finally determined which suggested idea would in all probability prove successful, and it was he who supervised the reduction to practice, and from his knowledge, made proper suggestions which changed the results of the tests from defeat into a successfully operating machine; Otken, therefore, will be awarded priority of the subject matter here in issue.

It is deemed unnecessary in view of the conclusion hereinbefore expressed, to state and discuss other points raised by counsel for the respective parties. The decision of the Board of Interference Examiners is accordingly affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE SCHUELKE

No. 5954. Decided February 6, 1953

[201 F.2d 937; 96 USPQ 421]

PATENTABILITY — PARTICULAR SUBJECT MATTER — BARBER'S TOOL.

The motion by the appellant to dismiss the appeal as to certain claims to a barber's tool is granted and the decision of the Board of Appeals rejecting certain other claims to the same type of device is affirmed.

APPEAL from Patent Office. Serial No. 748,507.

AFFIRMED.

Harvey B. Jacobson (*S. A. Strieklett* of counsel) for appellant.

E. L. Reynolds for the Commissioner of Patents.

COLE, *J.*:

We are concerned here with an attachment for barber tools claimed to be a new and useful improvement originated and first invented by the appellant. Application to the Patent Office praying that a patent issue therefor was made and after appropriate proceedings thereon, the Board of Appeals affirmed the Examiner's rejection of the only claims remaining in the case, Nos. 9 to 15, inclusive. That decision is the basis for this appeal.

During the oral argument before this court, the appeal from the decision of the Board rejecting claims Nos. 9, 13, and 14 was withdrawn and motion was made by the appellant's attorney to dismiss the same. Accordingly, claims 10, 11, 12, and 15 remain as the only ones before us. They are in the following language which is quite descriptive:

10. A barber's tool comprising a pair of blades, each having a cutting edge, a pivot pin detachably connecting said blades, an elongated receptacle conforming to the shape of one of said blades and having an opening in one side disposed adjacent the cutting edge of the blade on which the same is applied, an opening in said receptacle receiving said pivot pin for retaining said receptacle relative to said pair of shears, and means for supporting said receptacle entirely on one of said blades.

11. In combination with a blade having a cutting edge, an elongated receptacle conforming to the shape of the blade, a first clip at one end of said receptacle yieldingly embracing one end of the blade, a further clip carried by the other end of the receptacle yieldingly embracing the blade, said receptacle having a longitudinal opening in one side disposed adjacent the cutting edge of the blade and having an air vent at one end, said receptacle being supported solely by said blade.

12. In combination with a blade having a cutting edge, an elongated receptacle conforming to the shape of the blade, a first clip at one end of said receptacle yieldingly embracing one end of the blade, a further clip carried by the other end of the receptacle yieldingly embracing the blade, said receptacle having a longitudinal opening in one side disposed adjacent the cutting edge of the blade and having an air vent at one end, said receptacle being supported solely by said blade, said air vent being disposed adjacent said further clip.

15. An attachment for barber's tools comprising an elongated relatively flat and hollow receptacle having first and second end portions, the first end portion of said receptacle being tapered, the second end portion of said receptacle being curved and having an air vent therein, said receptacle having an elongated opening in one side, a first attaching arm at the tapered end portion of said receptacle, and a second attaching arm at the curved end portion of said receptacle, the curved end portion of said receptacle having an aperture therein adapted to receive the pivot pin of a pair of shears.

Claims 10, 11, and 12 obviously apply to the attachment affixed to a barber's tool, while claim 15 defines the attachment as such. The sole reference relied upon in rejecting the claims in question is the patent to the inventor La Mere (No. 2,292,453, issued August 11, 1924). The patent to Kaufmann, to

which we will subsequently refer, issued February 22, 1927 (No. 1,618,713).

Having the benefit of a most thorough and painstaking analysis by the officials of the United States Patent Office and the discussion thereof by the attorney for the appellant, it is not difficult with the involved patent applications and accompanying illustrations before us to understand what is involved. The gamut run by the applicant left little unsaid in his behalf. This experience included a rejection in part of the original claim because of the Kaufmann reference, not now of consequence, and objection by the Examiner with appropriate reasons to other phases thereof; amendments by the applicant in response thereto with more detailed descriptive remarks and modification to some extent of the setup first presented; action thereon by the Examiner, presenting for the first time the La Mere reference, which with further reliance on the Kaufmann patent resulted in total rejection of all claims. This was met with further amendments to the application, including cancellation of a number of claims and the addition of others. The remarks attached thereto discussed at length, in addition to previous approach in the same direction, the claims as then framed along with appellant's version of the Kaufmann and La Mere patents. Again the Examiner reasoned against the applicant in what was termed his final action. Additional amendments followed which were entered for the purpose of placing the case in proper form for appeal to the Board of Appeals. A lengthy brief by the applicant was addressed to the Board in which almost every conceivable phase of the controversy was set forth. The art and the claims, including those subsequently withdrawn before us as indicated, were discussed and applicant's conception thereof as contradistinguished from that found by the Examiner was presented, considerable attention being given to the La Mere reference. The Primary Examiner added a further comment to his original decision, which was evidently influenced by the arguments made to the Board therein. Here the Board appears with its decision from which we quote to this extent:

> The patent to La Mere discloses, in Figs. 11, 12 and 13, a hair suction disposal attachment in combination with a conventional pair of scissors. It includes an elongated receptacle 74 mounted on the upper scissor blade 72 so as to present an opening running longitudinally to the blade, clip means 77 and 78 projecting laterally therefrom adjacent its ends detachably securing it to the blade member, and an air vent at its rear and to which a flexible suction tube 76 is attached.
>
> The claims stand rejected as being unpatentable over the La Mere patent. While the Examiner recognizes that there is a difference in structure between the hair disposal attachment defined in the appealed claims and that disclosed by the reference patent, he feels that the line of reasoning used by the courts in *In re Rodman et al.*, 161 F.2d 232; 73 USPQ 435, and *In re Hitson*, 636 O. G. 690; 85 USPO 244, is just as applicable to the state of facts involved in this case; namely, that it is obvious to one skilled in the art with the reference patent before him to modify the reference structure in the manner called for by the appealed claims without the exercise of invention.
>
> Appellant contends that the reference patent does not disclose the structure recited in the claims and therefore fails as an anticipation of the structure defined and the features capable of being accomplished by said structure.
>
> Upon making a careful analysis of the subject matter defined in the appealed claims, we have reached the conclusion that the structure disclosed by the reference patent is the mechanical equivalent of appellant's structure. It appears to us that said two hair disposal attachments do substantially the same work when mounted on a barber's tool in substantially the same way and accomplish substantially the same results, and that the differences in structure merely involve features that cannot be patentably differentiated from each other. • • • Claim 10 specifies that the receptacle is provided with an opening adapted to receive the pivot pin of the barber's tool for the purpose of retaining the receptacle relative to the pair of shears. Said specific retaining means is not disclosed by La Mere but he does disclose retaining means 77 and 78 for the same purpose which appear to us to be the full mechanical equivalent. Claim 11 defines the "further clip carried by the other end of the receptacle yieldingly embracing the blade." The specific relationship of the "further clip" and blade as defined in this claim is not disclosed by La Mere but, in our opinion, it discloses an equivalent structural relationship in the further clip or support 77 connected to the handle 70 of the blade 72. The structure recited in claim 12 is substantially the same as that recited in claim 11. • • • The attachment defined in claims 14 and 15, in our opinion, is equivalent to that disclosed by La Mere. In fact claim 14 reads substantially on the La Mere attachment. The structure recited in claim 15 can be differentiated from the La Mere structure only in view of the fact that the second end portion of the receptacle is curved and has an aperture in said portion adapted to receive the pivot of a pair of shears, however, we fail to find any patentable significance involved in the curved end portion. To us, its presence in the structure merely indicates a matter of choice or mechanical expediency on the part of appellant. We agree with the Examiner that the subject matter defined in the appealed claims does not reflect a display of uncommon talent or creative genius that amounts to invention in view of the disclosure in the La Mere patent.

The primary purpose of the described attachments, when shears and clippers are used in cutting hair, is to draw loose hair into a receptacle and finally into a vacuum bag. One reference, La Mere, as indicated was relied upon by the Board. This reference clearly has a suction disposal attachment. It is described as an invention relating to cutting or clipping devices and more particularly to instruments for use in cutting and trimming hair.

The following from the La Mere reference is thought to be significant:

> The time-honored method of cutting the hair on human heads is to trim certain portions of the head with scissors and other portions thereof with clippers. The scissors are hand-operated and in most cases today the clippers are mechanically driven from an electric motor. In order to prevent the cut-off hair ends from dropping down the neck of the customer a large cloth is draped around his shoulders and tucked in at the neck. Also many barber shops and beauty shops use neck bands which are strips of gauze or paper wrapped around the neck at the point where the cloth is tucked into the collar. Even these precautions do not prevent the hair from working down inside the collar and the discomfort from the short cut off pieces of hair is considerable.
>
> • • • • • • •
>
> One of the objects of my invention is to provide means in conjunction with a hair cutting instrument which will immediately pick up and withdraw all cut off hair ends to a suitable waste receptacle and which will prevent any of the cut off ends from falling down the neck of the customer. This means can be adapted for use in connection with various types of cutting devices such as scissors and clippers and dry shavers.
>
> • • • • • • •
>
> Another object of the invention is to provide hair suction means for removing the cut off hair ends and to utilize this suction for driving the blades of a clipper.
>
> Still another object of the invention is to provide a clipper device and hair suction means associated therewith in such a manner that the clipper can be used for the entire hair cutting operation and wherein the time required for cutting the hair is very materially reduced.

Appellant argues against the La Mere patent because of the difficulty or impossibility one would find in using certain attachments on the scissors with the attending interference occasioned by the hand of the operator. Looking at the exhibits before us and the specific member and clip Nos. 34 and 77, respectively, which have been referred to, it is impossible for us to conceive just how such mechanism would so interfere. Such operation was determined by the Board to be merely a matter of mechanical skill and design. We find no difficulty in agreeing with this conclusion. Likewise it is contended that parts designated as clips, specifically Nos. 78 and 81, would catch in the patron's hair. If such is the case, and we are of course unable to do more than speculate on such reasoning, there is, we find, a clear similarity in the clips complained of and those of a similar nature found in appellant's application, Nos. 48 and 54, respectively. Other objections to the La Mere patent directed especially to the valve thereon are based upon the theory that such device would interfere with the proper operation of the scissors. This likewise is claimed properly to be speculative. As stated in the brief for the Commissioner, even if it is assumed that appellant's device in its entirety constituted an inventive improvement over La Mere, such would not justify the allowance of claims which did not clearly point out the features in which the improvement lies. Certainly there can be no dispute as to the accuracy of this statement. The Solicitor for the Commissioner has briefly, and we think convincingly, covered this thought in his brief from which we quote in the order of the claims, supra.

> Claim 10 contains the additional statement that the receptacle has an opening through which the pivot pin of the scissors passes. This, it is submitted, is an obvious arrangement. It has the advantage that the pin is a fixed member and the disadvantage that the attachment and removal of the receptacle are rendered more difficult than if clips alone are used. As stated by the Board, the function of the receptacle is not modified by the specific securing means used.
>
> Claim 10 further specifies that the receptacle is supported "entirely" on one of the blades. This involves no more than the omission of the clip 77 of La Mere, with a corresponding omission of function. It is well settled that this does not amount to invention (*In re Trester*, 17 CCPA 642, 36 F.2d 133. *In re Morgan*, 20 CCPA 1080, 64 F.2d 991).
>
> Claim 11 distinguishes from La Mere by calling for two clips instead of one for securing the receptacle to the blade. This is an obvious duplication of parts. It is clearly within the province of the skilled worker to use as many clips as may be found necessary or desirable. This claim also calls for an opening in the receptacle for receiving the pivot pin. As pointed out in connection with claim 10, it is not thought that that feature involves invention.
>
> Claim 12 adds to claim 11 the statement that the receptacle is supported solely by the blade. That limitation is submitted to be unpatentable for the reasons given above in considering claim 10.
>
> • • • • • • •
>
> Claim 15 states that a portion of the receptacle is curved. This is merely a matter of choice, depending on the specific shape of the scissors to which the receptacle is to be attached. The remaining limitations of claim 15 have been discussed above in connection with the other claims, and it seems unnecessary to repeat that discussion here.

As was said in *In re Rodman et al.*, 34 CCPA (Patents) 1051, 161 F.2d 232, 73 USPQ 435, "although the structure, as called for by the appealed claims, differs from the structures disclosed in the references, we think it would be obvious for one skilled in the art, with the reference patents before him to modify the references in the manner called for by the appealed claims, without the exercise of invention." The same reasoning is equally applicable to the instant case.

The motion by appellant to dismiss the appeal as to claims 9, 13 and 14 is hereby granted, and for the reasons hereinbefore set forth, the decision of the Board of Appeals is affirmed.

AFFIRMED.

JOHNSON, J., concurs in the conclusion.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,101,813, H. Brown, Electrodeposition of nickel from an acid bath, filed Feb. 24, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30022, *The Udylite Corp. v. Smoothex, Inc., et al.*

2,250,832, M. K. Hedge, Fly casting fishing lines, filed Feb. 27, 1953, D. C. Mass. (Boston), Doc. 53/254–S, *M. K. Hedge v. Rain-Beau Products Co.*

2,272,630, S. P. Becker, Clamp connector, D. C., S. D. N. Y., Doc. 57/100, *Fargo Mfg. Co., Inc. v. Mercury Electric Co., Inc.* Judgment for injunction (notice Feb. 25, 1953).

2,443,683, G. W. Lang, Tile making machine, filed Feb. 24, 1953, D. C. Fla. (Miami), Doc. 4831–M, *Patent Tile Co., Inc. v. G. W. Lang.*

2,444,581, A. A. Seamon, Billfold with secret compartment, D. C., S. D. N. Y., Doc. 57/224, *A. & L. Seamon v. Empire Products Co.* Consent judgment that defendant has infringed; injunction (notice Feb. 20, 1953).

2,461,464, R. Aronstein, Filter for fluorescent screens, filed Feb. 27, 1953, D. C., S. D. N. Y., Doc. 83/75, *Transmirra Products Corp. et al. v. Montgomery Ward & Co., Inc.* Doc. 83/76, *Transmirra Products Corp. et al. v. Sears, Roebuck & Co.*

2,495,494, T. S. Ziegenfuss, Twin bed and lounge, filed Feb. 25, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15239–HW, *Duo-Bed Corp. et al. v. Mansion House Furniture Co. et al.*

2,513,919, H. F. Costello, Vaporizer, filed Feb. 20, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30020, *Odor-Ban, Inc. v. Leader Drug Stores, Inc.*

2,591,043, R. F. Berndt, Power separator and dispenser, filed Feb. 27, 1953, D. C., S. D. N. Y., Doc. 83/93, *Virkotype Corp. v. Embossograph Process Co., Inc.*

2,629,763, J. C. Macy, Electrical connector, filed Feb. 24, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15225–PH, *Aircraft Marine Products Co. v. Douglas Aircraft Co.*

Des. 150,851, J. B. Grinoch, Pleated necktie, D. C., S. D. N. Y., Doc. 64/140, *J. B. Grinoch v. Hermann Spielman & Son, Inc.* Stipulation and order of discontinuance (notice Feb. 24, 1953).

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 57,902, The Texas Co., Certain named petroleum products; T. M. 124,602, T. M. 150,620, same, Petroleum products, asphalt oils, etc., filed Feb. 24, 1953, D. C., E. D. Tex. (Tyler), Doc. 1512, *The Texas Co. v. Wagnon Oil Co.*

T. M. 124,602. (See T. M. 57,902.)

T. M. 150,620. (See T. M. 57,902.)

T. M. 282,644, Europa Schreibmachinen A. G., Typewriters and parts thereof, filed Jan. 8, 1953, D. C., S. D. N. Y., Doc. 81/364, *Inter-Continental Trading Corp. v. H. Sommerfeld.*

T. M. 309,865, Ste Pierre Smirnoff Fls, Inc., Non-alcoholic, maltless fruit juice; T. M. 326,253, T. M. 328,594, T. M. 330,899, same, Vodka; T. M. 394,058, same, Alcoholic liquor, filed June 28, 1951, D. C., S. D. Calif. (Los Angeles), Doc. 13233–T, *Ste Pierre Smirnoff, Fls, Inc.* v. *L. Hirsch & Sons.* Trade-mark "Smirnoff" held infringed; injunction (notice Dec. 20, 1953).

T. M. 326,253. (See T. M. 309,865.)

T. M. 328,594. (See T. M. 309,865.)

T. M. 330,899. (See T. M. 309,865.)

T. M. 373,844, Ziff-Davis Publishing Co., Periodicals; T. M. 511,027, same, Magazine; T. M. 569,573, same, Magazine published quarterly, D. C., S. D. N. Y., Doc. 82/250, *Ziff-Davis Publishing Co.* v. *Future Publications, Inc., et al.* Stipulation and order of discontinuance (notice Feb. 26, 1953).

T. M. 389,114, Nancy Ann Dressed Dolls, Inc., Dolls, doll clothes and doll furniture; T. M. 420,077, T. M. 432,208, T. M. 395,454, T. M. 404,576, T. M. 404,586, T. M. 395,451, T. M. 403,240, T. M. 438,495, T. M. 403,261, T. M. 525,896, T. M. 404,581, same, Dressed dolls, D. C., N. D. Calif. (San Francisco), Doc. 29270, *Dollcraft Co.* v. *Nancy Ann Storybook Dolls, Inc.* Trade-marks 420,077, 432,208, 395,454, 404,576, 404,586, 404,581, 395,451, 403,261, 389,114, and 525,896 held invalid; Trade-marks 403,240 and 438,495 held valid; injunction restricting defendant from use of designated names, and plaintiff from infringing designated trade-mark numbers Feb. 3, 1953.

T. M. 394,058. (See T. M. 309,865.)

T. M. 395,451. (See T. M. 389,114.)

T. M. 395,454. (See T. M. 389,114.)

T. M. 403,240. (See T. M. 389,114.)

T. M. 403,261. (See T. M. 389,114.)

T. M. 404,576. (See T. M. 389,114.)

T. M. 404,581. (See T. M. 389,114.)

T. M. 404,586. (See T. M. 389,114.)

T. M. 405,173. (See T. M. 522,761.)

T. M. 405,413. (See T. M. 522,761.)

T. M. 409,726. (See T. M. 522,761.)

T. M. 420,077. (See T. M. 389,114.)

T. M. 432,208. (See T. M. 389,114.)

T. M. 438,495. (See T. M. 389,114.)

T. M. 511,027. (See T. M. 373,844.)

T. M. 522,761, Minnesota Mining & Mfg. Co., Masking type cellophane tape, etc.; T. M. 409,726, same, Surgical tape; T. M. 405,413, same, Adhesive cement; T. M. 405,173, same, Electrical tape and supplies, filed Feb. 18, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15206–Y, *Minnesota Mining & Mfg. Co.* v. *M. M. M. Industrial Division.* Trade-marks held valid and infringed; injunction (notice Feb. 25, 1953).

T. M. 525,896. (See T. M. 389,114.)

T. M. 539,751, Industrial Engineering Associates, Athletic truss for all reducible inguinal hernias, D. C., N. D. Ill. (Chicago), Doc. 51C708, *Industrial Engineering Associates* v. *Active Man Truss Co.* Cause dismissed Feb. 18, 1953.

T. M. 569,573. (See T. M. 373,844.)

NOTICES

Erratum

All references to Design Patent No. 169,521 to Daniel Spooner for Combined Dial and Hands for a Clock or Similar Article appearing in the OFFICIAL GAZETTE of May 5, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patents

(C. A. Mich.) Gleason Patent No. 2,124,695, for a spring assembly for upholstery, *Held* invalid. *Nachman Corp.* v. *L. A. Young Spring & Wire Corp.*, 202 F.2d 279; — USPQ —.

(D. C. Minn.) Kubista Patent No. 2,387,644, for a fount for poultry and other domestic animals, *Held* not infringed. *Doughboy Industries, Inc., et al.* v. *Goff et al.*, 110 F. Supp. 358; — USPQ —.

(C. A. Ill.) O'Brien and von Harz Patent No. 2,467,849, for a portable electric rotary drain cleaner, *Held* valid and infringed. *O'Brien* v. *O'Brien*, 202 F.2d 254; 96 USPQ 290.

(C. A. Fla.) Livesay Patent No. 2,166,870, for a concrete window trim and method of making, *Held* infringed. *Livesay Industries, Inc., et al.* v. *Livesay Window Company, Inc.*, 202 F.2d 378; 96 USPQ 285.

(C. A. N. J.) Bley Design Patent No. 151,732, for a lady's stocking, *Held* infringed. *Sanson Hosiery Mills, Inc., et al.* v. *Warren Knitting Mills, Inc.*, 202 F.2d 395; 96 USPQ 247.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

In accordance with a Consent Decree in Civil Action No. 54—357 in U. S. District Court for the Southern District of New York, The Davis Company, of Chattanooga, Tennessee, has agreed to grant to any person desiring the same, at non-discriminatory charges and upon non-discriminatory terms and conditions, a non-exclusive license to manufacture, use, and sell plain knit elastic top hosiery under any, some, or all of the patents owned or controlled by The Davis Company, including the ten patents listed below. "Plain knit elastic top hosiery" is defined as meaning men's, women's, and children's hosiery containing elastic material incorporated into plain knit tops to make the hose self-supporting. "Person" is defined as meaning an individual, partnership, association, corporation, or any other legal or business entity. Groups 22—41—42—43; 35—52.

Pat. 2,054,217. Method of Knitting. Patented Sept. 15, 1936. Reg. No. 50,690.

Pat. 2,183,862. Knitted Wear. Patented Dec. 19, 1939. Reg. No. 50,691.

Pat. 2,191,456. Knitted Fabric. Patented Feb. 27, 1940. Reg. No. 50,692.

Pat. 2,215,286. Process of Knitting. Patented Sept. 17, 1940. Reg. No. 50,693.

Pat. 2,223,719. Hosiery. Patented Dec. 3, 1940. Reg. No. 50,694.

Pat. 2,230,402. Knitted Stocking. Patented Feb. 4, 1941. Reg. No. 50,695.

Pat. 2,230,403. Process of Knitting. Patented Feb. 4, 1941. Reg. No. 50,696.

Pat. 2,306,246. Knitted Wear. Patented Dec. 22, 1942. Reg. No. 50,697.

Pat. 2,344,350. Hosiery. Patented Mar. 14, 1944. Reg. No. 50,698.

Pat. 2,357,506. Method of Knitting. Patented Sept. 5, 1944. Reg. No. 50,699.

Pat. 2,623,200. Servo-Control Mechanism. Patented Dec. 23, 1952. In accordance with one embodiment of the invention, servo-type operation is obtained by deriving a control or error voltage from the appropriate function of the position, speed, etc. of the load being driven by the servo-motor. This control voltage is used to vary the frequency of a single phase oscillator, and the output frequency of the oscillator is then mixed with the output of a three-phase oscillator. The three frequencies resulting therefrom are amplified and applied directly to the stator winding of a three-phase motor to cause the motor load to be driven in such a way as to cancel the error voltage. The invention further provides means for obtaining position repeater-type operation by synchronizing the single-phase oscillator from a phase selector connected to the output of the three-phase oscillator, thereby causing the motor rotor to repeat the angular position of the phase selector. (Owner) Northern Electric Company, P. O. Box 6124, Montreal, Quebec, Canada. Group 36—19. Reg. No. 50,700.

Pat. 2,620,383. Signaling System. Patented Dec. 2, 1952. Device for detecting the displacement of magnetizable bodies may be used to advantage, for instance, in controls for vehicular traffic where directional discrimination is essential. The device includes a single detection coil and a relay device responsive to potential waves generated in the coil. The coil is wound on a magnetic core and is so disposed in relation to the line of travel of a displaceable magnetizable body, such as a motor vehicle, as to generate a potential wave in response to displacement of the body past the coil in either direction. The wave is impressed on the relay device, and in response thereto the relay device provides a signal. The relay device will respond to the first pulse of a wave of a particular polarity and remain unaffected by the succeeding pulses of the wave. (Owner) Northern Electric Company, P. O. Box 6124, Montreal, Quebec, Canada. Group 36—19. Reg. No. 50,701.

Pat. 2,625,847. Coin-Shaped Bottle Opener. Patented Jan. 20, 1953. Bottle opener to be carried in a pocket or handbag has a smooth round outer surface so that it will not punch holes in pockets or catch in articles in handbag. Opener is in the form of a flat circular body of substantially the same size as a large coin having an intermediate opening therethrough. A slot extends from the opening through one side of the body, and a recess is provided in the body on other side of opening. A cap-gripping blade having an elongated slot is slidably mounted in the slot in the body with its inner end in the recess. Opposite end of blade lies within the periphery of the body of the opener. A thumb screw extends through the body and a slot of the blade so the blade may be selectively secured in retracted or extended positions. (Owner) Coleman T. Frazier, 3002 River Park Drive, Louisville 11, Ky. Groups 33—51; 40. Reg. No. 50,702.

Pat. 2,609,884. Stabilizer and Compensator for Vehicles on Curved Roads. Patented Sept. 9, 1952. Stabilizing device for automobiles and the like is automatically actuated by the steering mechanism of the vehicle to enable the vehicle to easily pass a curve. Four hydraulic units, each including a cylinder and a piston, are connected to the shock absorbing springs which connect the wheels to the body of the vehicle. The units are divided into two pairs, one for each side of the body, and each unit is controlled by a separate pump. A conical member for controlling the pumps is slidably and eccentrically connected on the shaft of the steering wheel to rotate therewith and cooperates with the free ends of the pump pistons to impart to the hydraulic units differential displacements for tilting the body in the proper direction as the vehicle passes a curve. The accelerator is connected to the conical member to slide it downwardly along the shaft against the action of a spring to increase the degree of tilt of the body on a given curve in accordance with the speed of the vehicle. (Owner) Manuel de Montalvo, Dos Amigos 3, Madrid, Spain. Group 38—11—31. Reg. No. 50,703.

Pat. 2,493,908. Hat Fastener. Patented Jan. 10, 1950. Attachment for women's hats for holding a hat in place upon the wearer's head. A flat elongated mounting plate removably attached to a hat band has a pair of flexible, spaced, aligned web portions therein and a pair of perforations in the opposite corresponding corners. A comb has spaced attaching arms for positioning beneath the webs. An attachment pin has an eyelet connected to the plate through one of the perforations. A split eyelet is mounted in the other perforation to embrace and cooperate with the pin to attach the plate to a hat band. (Owner) Edna M. Baker Brown, 6137 South Kenwood Ave., Apt. 402, Chicago 37, Ill. Groups 39—81—99; 40. Reg. No. 50,704.

Pat. 2,583,374. Exhaust Fan. Patented Jan. 22, 1952. Fan is adapted to exhaust air from a room or other enclosure without the air passing through the fan housing, and permits convenient access to the interior of the fan for cleaning and maintenance purposes. An adjustable main housing is positioned in an opening in the wall of a room or other enclosure, and a fan housing containing a fan is positioned within the main housing in spaced relation thereto. The fan directs outside air toward the inside of the room against a removable dome-shaped baffle in front of the fan. The baffle reverses the direction of the air and directs it rearwardly through a restricted annular passageway between the baffle and the fan housing, from where it expands into an enlarged passageway between the fan housing and the main housing and is discharged into the atmosphere. The flow of air through the restricted and enlarged passageways creates a Venturi effect, drawing air from the room through the passageway between the baffle and the main housing and discharging it to the atmosphere. (Owner) Hydraulic Supply Manufacturing Company. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 35—64. Reg. No. 50,705.

Pat. 2,621,446. Grit Blasting Device for Cleaning Pipes and the Like. Patented Dec. 16, 1952. Machine has an enclosed blasting area and a plurality of nozzles directed downwardly to spray grit on the upper surface of a pipe as it is revolved and advanced by carriages through the blasting area. The blasting area is divided into a plurality of chambers having apertured diaphragm-like yieldable separators which are distorted around the advancing and revolving pipe to collect the grit material and direct it downwardly for ultimate recovery and re-use and permit the lighter materials, dust, scale, and the like, to be blown out along the pipe. The machine includes apparatus for recovering, reconditioning, and re-introducing the grit into the high pressure air stream flowing to the nozzles to the end that the grit can be used repeatedly, thus eliminating one of the costly factors of such processes which exists when adequate means for recovering and reconditioning the grit is lacking. A pipe can be quickly fed through the blasting area so that a succession of pipes can be passing through the machine as substantially a continuous operation. (Owner) Hydraulic Supply Manufacturing Company. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 35—69. Reg. No. 50,706.

Pat. 2,588,515. Reversible Roller Type Clutch. Patented Mar. 11, 1952. Roller type clutch is controlled in its operation by a pilot shaft having variable motion in order to impart to a driven member, actuated by the clutch through a driving member having uniform rotation, the same variable motion executed by the pilot shaft. A driven shaft to which a secondary power- and motion-transmitting tool is secured carries a flange integrally connected to a cage. Radially movable rollers in recesses in the cage are arranged between the inner cylindrical surface of an annular driving member and a pilot cam member integrally connected to a pilot shaft, which may be controlled by a measuring or recording appliance. The profile of the effective surfaces of the cam relative to the inner cylindrical surface of the driving member is such as to wedge the rollers between the surfaces when relative motion of the pilot shaft and cam to the cylindrical surface of the driving member occurs in one direction, and to free the rollers when relative motion occurs in the opposite direction, such relative motions being instantaneous and successive. (Owner) Pierre C. J. Gilson. Correspondence to J. Delattre-Seguy, 310 Shoreham Building, Washington 5, D. C. Group 35—66. Reg. No. 50,707.

Pat. 2,592,742. Curb Proximity Signaling Device. Patented Apr. 15, 1952. Switch device is mounted on an automobile fender contiguous to the wheel for signaling the degree of proximity to a curb. A hollow housing of electrically conductive material is open at the outer end and closed at the inner end by an apertured wall. A cup-shaped insulated fixed contact element is secured to the end wall by an insulated rivet which extends through the aperture and provides an electrical conductor from the fixed contact. In the open end of the housing an apertured electrically conductive cylinder supports for pivotal movement therein a metal contact rod. A compression spring surrounding the rod between annular shoulders resiliently centers one end of the rod in the fixed contact element and provides resiliently resisted freedom of pivotal movement of the rod into and out of electrical contact with the support. An elongated coil spring feeler with a ball end is secured to the projecting end of the rod to impart pivotal movement thereto when the feeler strikes a curb, closing the circuit and actuating a signal. (Owner) Archie B. Rose, 812 Rose St., Merkel, Tex. Groups 36—19; 38—31. Reg. No. 50,708.

General Electric Company offers the following twelve patents for non-exclusive licensing on reasonable terms to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,584,671. Electric Lighting Fitting Having the Lamp and Control Elements Therefor Removable as a Unit. Patented Feb. 5, 1952. Totally enclosed side entry electric lighting fitting is particularly adapted for street lighting purposes. The fitting includes a sub-base member which divides the fitting into a lower lamp compartment for a horizontal electric discharge lamp, and an upper control compartment, and constitutes, with a reflector, lamp receptacle, and control elements, an integral lighting unit removable from the base of the fitting without disassembly. Group 36—51. Reg. No. 50,709.

Pat. 2,592,309. Flexible Coupling. Patented Apr. 8, 1952. Flexible coupling for transmitting torque from a single phase alternating current motor to a driven shaft includes elastic cylinders of rubber or the like molded and bonded between inner and outer sleeves to transmit torque between the sleeves to reduce the pulsation torque transmitted to the driven shaft and also act as a shock absorber to minimize jolts due to sudden application of power. Group 36—19. Reg. No. 50,710.

Pat. 2,599,229. Work Coil. Patented June 3, 1952. Induction heater, comprising a pair of high frequency coils arranged in substantially symmetrical relation one within the other for the continuous surface heating and hardening of massive metal parts by high frequency induction heating where the metal of the work is such that it requires a comparatively long heat soaking period before heating to decalescent temperature as part of the hardening process. Group 36—19. Reg. No. 50,711.

Pat. 2,602,134. High-Frequency Dielectric Heater. Patented July 1, 1952. Heater for continuously popping corn utilizes: A funnel-shaped member made of low loss dielectric material into which the corn is fed and forced upwardly by a blast of air; and high-frequency dielectric heating means for heating the corn while suspended in the air blast, which carries the lighter popped corn out of the upper end of the funnel. Group 36—21. Reg. No. 50,712.

Pat. 2,606,632. Brake Rigging. Patented Aug. 12, 1952. Brake rigging for rail vehicle trucks, in which two air cylinders are utilized to independently apply two sets of wheel brakes, includes means for securing equal movement of operating rods of the two cylinders so that the brake sets may be evenly applied. Valves associated with air supply lines to the cylinders are held open when movement of the rods is equal, and one valve is closed when the movement is unequal, to reduce the flow of air to the cylinder associated with the valve and equalize movement of the operating rods. Group 35—69. Reg. No. 50,713.

Pat. 2,612,048. Thermometer. Patented Sept. 30, 1952. Thermometer having liquid organopolysiloxanes as the indicating fluid may be used in carrying out sensitive reactions where careful control of temperature is essential and extremes of temperature may be encountered during reaction, where it is highly desirable that such extremes be measurable by one thermometer. Group 39—11. Reg. No. 50,714.

Pat. 2,612,380. Suction Cleaner Runner and Bracket Assembly. Patented Sept. 30, 1952. Runner and bracket assembly for slidably supporting a tank type vacuum cleaner is designed to facilitate manufacture and assembly. The edges of each runner are rolled inwardly, and each end of the brackets is formed with a downwardly bent portion and an upwardly extending ear so that the brackets may be securely attached to the runners by a simple rotational movement of each bracket with respect to the runners. Group 36—21. Reg. No. 50,715.

Pat. 2,612,482. Water-Repellent Compositions. Patented Sept. 30, 1952. Composition for rendering textiles water-repellent and increasing their crease resistance consists of a mixture of ingredients, such as organopolysiloxane, methyl hydrogen polysiloxane, and urea or melamine resins. Group 28—83. Reg. No. 50,716.

Pat. 2,612,550. Voltage Level Selector Circuit. Patented Sept. 30, 1952. Relates to voltage level selector circuits and, more particularly, to high speed switching circuits suitable for use in quantizers and also in oscillograph type recorders. Group 36—13. Reg. No. 50,717.

Pat. 2,612,584. Inert Gas Welding Torch. Patented Sept. 30, 1952. Inert gas arc welding torch, having a ceramic nozzle through which inert gas is directed toward the work and an electrode extending through the nozzle, is provided with a heat-resistant tube secured to the nozzle and surrounding the electrode so that the tube will dissipate the heat from the arc and prevent the nozzle from becoming highly heated. Group 36—19. Reg. No. 50,718.

Pat. 2,612,591. Electric Heater. Patented Sept. 30, 1952. Portable lightweight electric room heater has a lower upwardly facing annular convex reflector carried by the base, and an upper downwardly facing annular convex reflector supported by the base in spaced relation thereto by a cylindrical grill, the reflectors having a common axis. The reflecting surfaces are generated by rotating a parabola about the common vertical axis with its focal point on the periphery of the heating unit and its axis tilted upwardly at an angle to the horizontal. A fan effects circulation of air inwardly along the lower surface of the lower reflector, over the heating unit, and outwardly along the surface of the upper reflector. Group 36—21. Reg. No. 50,719.

Pat. 2,612,604. Electronic Time Delay Circuit. Patented Sept. 30, 1952. Relates to an electronic time delay circuit having a relatively large time delay constant while using small inexpensive circuit elements. Group 36—19. Reg. No. 50,720.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 19, 1953

[VOL. 670. No. 3]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 521,440. Dixie Paint and Varnish Company, Inc., Brunswick, Ga. Filed Apr. 28, 1947.



The drawing is lined for red and gray. No claim is made for the words "Dixie Scientific Paint" and the representation of the maps apart from the mark shown in the drawing.

For Ready Mixed Oil Paints in Liquid Form for Architectural, Industrial, and Marine Use.

Claims use since Aug. 28, 1941.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 594,462. Hoyt and Worthen Tanning Corporation, Haverhill, Mass. Filed Mar. 23, 1950.

Applicant claims ownership of Registration No. 541,794.



For Thin Leathers.

Claims use since on or about Oct. 5, 1939.

Ser. No. 603,392. Steele's Pansy Gardens, Portland, Oreg. Filed Sept. 9, 1950.

MASTODON

For Pansy Seeds.

Claims use since March 1908.

Ser. No. 606,741. Allen Industries, Incorporated, Detroit, Mich. Filed Nov. 22, 1950.

NEO-TEX

For Rubber Reinforced Fibers Sold in Sheets and Most Commonly Used for Making Rug Pads.

Claims use since February 1947.

Ser. No. 627,774. Raytex Industries, Inc., Chicago, Ill. Filed Apr. 8, 1952.

rayglass

For Plastic Coated Fiber Glass Sheet Material for Use in Making Lamp Shades and Ornamental Objects.

Claims use since Mar. 3, 1952.

Ser. No. 635,942. Turner Brothers Asbestos Company Limited, Manchester and Rochdale, England. Filed Sept. 29, 1952.

DURESTOS

Applicant claims ownership of British Registration No. 651,094, dated Sept. 13, 1946.

For Flock Moulding Material and Felt Moulding Material Composed of Asbestos and Synthetic Resin.

Ser. No. 636,567. Hebb Leather Co. Inc., Boston, Mass. Filed Oct. 13, 1952.

"GYPSY"

For Leather.
Claims use since Sept. 16, 1952.

CLASS 2

RECEPTACLES

Ser. No. 529,617. Eureka Williams Corporation, Bloomington, Ill. Filed July 26, 1947.

KADDIE

For Compartmented Fabric Cases Held Erect by Metal Rods for Holding Different Size Accessories and Attachments for Vacuum Cleaners.
Claims use since June 11, 1947.

Ser. No. 539,916. Triangle Paper and Box Co., Chicago, Ill. Filed Nov. 1, 1947.

TRI-PACO

For Corrugated Paperboard Cartons.
Claims use since July 1, 1939.

Ser. No. 580,871. American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Filed June 22, 1949. (Sec. 2f.)

PRECISION

Applicant claims ownership of Registration No. 384,946.
For Cabinets for Dispensing Paper Towels.
Claims use since June 6, 1940.

Ser. No. 639,896. Protective Coatings Corporation, Clifton, N. J. Filed Dec. 22, 1952.

VINCREPE

For Bags, Boxes, and Cartons Having an Inner Coating of Vinyl Resin.
Claims use since Sept. 30, 1952.

Ser. No. 639,909. Union Bag & Paper Corporation, New York, N. Y. Filed Dec. 22, 1952.

HIPPO

For Paper Bags.
Claims use since Aug. 1, 1934.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 630,833. Dorian Handbags, New York, N. Y. Filed June 6, 1952.

*Duralope

For Handbags.
Claims use since May 1, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 628,564. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Emery Cord.
Claims use since 1925.

CLASS 5

ADHESIVES

Ser. No. 579,863. Glenn Davidson, Aurora, Ill. Filed June 2, 1949.

SOYEIN

For More or Less Purified Protein From Leguminous Seeds for Use as an Ingredient in the Manufacture of Adhesives.
Claims use since May 27, 1949.

Ser. No. 621,315. Allen M. Holt III, doing business as Holt Mfg. Co., Birmingham, Ala. Filed Nov. 16, 1951.

ART-CRAFT

For Paste—Namely, Paste Used for Gluing Paper to Paper, Paper to Glass and Similar Materials, and Paste for Use in Libraries, Schools, and Offices.
Claims use since Nov. 12, 1951.

Ser. No. 639,810. Crown Zellerbach Corporation, San Francisco, Calif. Filed Dec. 20, 1952.

orzan

Applicant claims ownership of Registrations Nos. 565,362 and 566,702.
For Solids of Waste Sulfite Liquor, for Use as an Adhesive and Adhesive Extender.
Claims use since Nov. 6, 1951.

Ser. No. 640,035. Chicago Show Printing Co., doing business as Mystik Adhesive Products, Chicago, Ill. Filed Dec. 26, 1952.

THINFLEX

For Pressure Sensitive Paper Tape.
Claims use since Nov. 12, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 591,241. Knapp-Monarch Company, St. Louis, Mo. Filed Jan. 21, 1950.

MAGIK-AIRE

The term "Air" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 443,764.
For Containers Filled With Deodorant and Gas Under Pressure and Provided With Control Valves.
Claims use since Dec. 23, 1949.

Ser. No. 619,500. Cop-Sil-Loy, Inc., Beverly Hills, Calif. Filed Oct. 2, 1951.

COP-SIL-LOY

The drawing is lined for shading only.
For Dry Coatings for Braking, Clutching, and Like Surfaces for Inhibiting Brake Squealing, Preventing Fading of Braking Pressure, Reducing Heat Generation, Increasing Braking Efficiency and Brake Life.
Claims use since Feb. 1, 1951.

Ser. No. 625,162. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

INSECTOR

For Chemical Tablets Used for Fumigation.
Claims use since Jan. 1, 1917.

Ser. No. 638,536. Hart & Harrington, Inc., Chicago, Ill. Filed Nov. 24, 1952.

LeatherRich

Applicant disclaims the word "Leather" apart from the mark itself for the purpose of registering the present mark, but without disclaiming any of applicant's common law or other rights therein.
For Creme Shoe Dressing.
Claims use since October 1950.

Ser. No. 638,537. Hart & Harrington, Inc., Chicago, Ill. Filed Nov. 24, 1952.

LeatherRich



Applicant disclaims the word "Leather" apart from the mark itself.
For Creme Shoe Dressing.
Claims use since October 1950.

Ser. No. 640,396. General Dyestuff Corporation, New York, N. Y. Filed Jan. 6, 1953.

UVINUL

For Chemical Compounds and Compositions for Absorbing Ultraviolet Light, for Use in Light Filters.
Claims use since Nov. 7, 1952.

Ser. No. 640,490. Bersworth Chemical Company, Framingham, Mass. Filed Jan. 8, 1953.

VER-TAN

For Sodium Salt of a Synthetic Amino Acid.
Claims use since Dec. 18, 1952.

Ser. No. 640,552. Dow Corning Corporation, Midland, Mich. Filed Jan. 9, 1953.

SILASTIC

Applicant claims ownership of Registrations Nos. 438,195, 436,948, and 514,762.
For Unvulcanized Organopolysiloxane Elastomers.
Claims use since February 1945.

Ser. No. 640,553. Dow Corning Corporation, Midland, Mich. Filed Jan. 9, 1953.

SILASTIC

Applicant claims ownership of Registrations Nos. 438,195, 436,948, and 514,762.
For Unvulcanized Organopolysiloxane Elastomers.
Claims use since February 1945.

Ser. No. 642,150. Marbon Corporation, Gary, Ind. Filed Feb. 12, 1953.

CYCOLAC

For Synthetic Resinous Composition for Use in the Industrial Arts.
Claims use since Jan. 22, 1953.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 618,324. Constance Ong, doing business as Jade Snow Wong, San Francisco, Calif. Filed Sept. 1, 1951.

Jade Snow Wong

"Jade Snow Wong" is the Chinese name of applicant, and the mark as shown is a facsimile of her signature.
For Enameled Copperware Ash Trays and Cigarette Boxes.
Claims use since Jan. 5, 1946.

Ser. No. 624,092. P. Lorillard Company, New York, N. Y. Filed Jan. 25, 1952.

MICRONITE

For Filters Used To Form a Component Part of Cigarettes.
Claims use since Jan. 16, 1952.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 637,330. Remington Arms Company, Inc., Bridgeport, Conn. Filed Oct. 29, 1952. (Sec. 2f.)

HI-WAY MASTER

Applicant claims ownership of Registrations Nos. 336,054, 336,055, and others.
For Ammunition—Namely, Fixed Ammunition for Small Arms.
Claims use since about January 1939.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 560,276. Lake Chemical Co., Chicago, Ill. Filed June 26, 1948. (Sec. 2f.)

PLUMBER--KRAK--Stik

For Pipe Caulking Compound in Stick Form.
Claims use since May 18, 1948.

Ser. No. 609,310. Parkwood Laminates, Inc., Wakefield, Mass., assignee of Parkwood Corporation. Filed Jan. 26, 1951.

Genuwood

For Material Consisting of Natural Wood Veneer Laminated With Plastic and Paper Sheet Materials.
Claims use since June 30, 1950.

Ser. No. 615,033. United States Plywood Corporation, New York, N. Y. Filed June 11, 1951.

HARDPLY

For Laminated Construction Material of Wood, Plywood, and/or Synthetic Wood—Namely, Hardboard.
Claims use since on or about Nov. 30, 1950.

Ser. No. 616,904. Cooper C. Drury, Dallas, Tex. Filed July 25, 1951.

Alumi-Coustic

For Ceiling Constructions—Namely, Metallic Suspension Systems for Supporting Acoustical Tile and Insulating Tile and the Like.
Claims use since on or about Oct. 1, 1950.

Ser. No. 616,905. Cooper C. Drury, Dallas, Tex. Filed July 25, 1951.

Alumi-Coustic

The representation of the goods is disclaimed apart from the mark.
For Ceiling Constructions—Namely, Metallic Suspension Systems for Supporting Acoustical Tile and Insulating Tile and the Like.
Claims use since on or about Oct. 1, 1950.

Ser. No. 618,262. The Inland Fire Brick Company, Cleveland, Ohio. Filed July 19, 1951.

BRIXBOND

Applicant claims ownership of Registration No. 269,497.
For Refractory Cement.
Claims use since Oct. 22, 1929.

Ser. No. 620,198. Copco Steel & Engineering Company, Detroit, Mich. Filed Oct. 19, 1951.

Copcote

For Corrosion-Resistance Coated Metal Building and Construction Materials—Namely, Building Framing Members—Namely, Studs, Plates, Headers, Joists, Risers, Treads, Stairwells, and Bridging; Building Siding and Roofing Members—Namely, Rafters, Frieze, Rakes, Gutters, Conductor Pipes, Soffits, Ridge Caps, Siding Panel Sheets, Roofing Panel Sheets, and Siding Corners; and Interior Building Members—Namely, Wall Panel Sheets and Ceiling Panel Sheets; Residential, Commercial, Industrial, and Utility Windows; Steel Door Frames; Storm Sash and Screens; Fireplace Hearth Ash Disposal Vent Doors; Built-In Type Coal Chutes, Built-In Type Clothes Chute Doors, Built-In Type Milk and Package Receivers; Joist Hangers and Joist Angles.
Claims use since Sept. 1, 1950.

Ser. No. 621,227. Ray Riethmiller, Columbus, Ohio. Filed Nov. 14, 1951.

RAY-LOC

Applicant disclaims the word "Loc" and the representation of goods apart from the mark as shown.
For Packaged Installation System Comprising Various H-Section and T-Section Steel Members Used for Installing Acoustical Tile and Building Boards in a Building Structure.
Claims use since Mar. 16, 1951.

Ser. No. 621,651. Arlite Industries, Inc., Newark, N. J. Filed Nov. 26, 1951.

Magic Clutch for finger touch

No claim is made to the words "For Finger Touch" apart from the mark as shown.
For Storm Windows and Storm Window Frames.
Claims use since Apr. 1, 1950.

Ser. No. 624,470. Corhart Refractories Company, Louisville, Ky. Filed Feb. 4, 1952.

CORHART

Applicant claims ownership of Registrations Nos. 246,879 and 515,723.
For Crushed Refractory Grains; Mortars; and Cements.
Claims use since Nov. 15, 1951.

Ser. No. 624,840. Marbelex Products, Inc., New York, N. Y. Filed Feb. 12, 1952.

MARBELEX

For Glass Building Materials—Namely, Panels, Slabs, and Tiles for Walls or Table Tops.
Claims use since July 15, 1951.

Ser. No. 638,374. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Filed Nov. 20, 1952.

RUCO

For Asbestos-Cement Siding.
Claims use since on or about Nov. 14, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 529,519. G. F. Wright Steel & Wire Co., Worcester, Mass. Filed July 25, 1947. (Sec. 2f as to "Wright.")

WRIGHT



The representation of the goods in the drawing is disclaimed, apart from the mark as shown.
For Woven Wire Netting for Animal Pen Fences.
Claims use since Jan. 1, 1928.

Ser. No. 592,841. Red Devil Tools, Irvington, N. J. Filed Feb. 21, 1950. (Sec. 2f.)

GRADY

The mark consists of the word "Grady" not identifying a particular individual.
For Wedges for Tool Handles.
Claims use since June 1, 1929.

Ser. No. 600,127. Fil-O-Matic Corporation, Chicago, Ill. Filed July 1, 1950.

FIL-O-MATIC CONTROL

Applicant disclaims the word "Control" apart from the mark as shown.
For Spout and Valve Assembly for Dispensing Fluid From a Receptacle for the Filling of Pyrophoric Lighters and the Like, and Wherein the Assembly Comprises a Part for Securement to the Receptacle and a Pivoted Nozzle Part Movable From a Closed to an Open Position and Vice Versa.
Claims use since May 3, 1950.

Ser. No. 628,362. The McIntire Corporation, Cambridge, Mass. Filed Apr. 19, 1952. (Sec. 2f.)

"MORSE"

For Fire-Hose Nozzles.
Claims use since September 1934.

Ser. No. 635,013. West Shore Chain Works, Inc., Carlisle and Lemoyne, Pa. Filed Sept. 8, 1952. (Sec. 2f.)

SHUR-GRIP

For Twin Emergency Chains for Trucks or Tractors.
Claims use since 1910.

Ser. No. 638,290. The Colorado Fuel and Iron Corporation, Denver, Colo. Filed Nov. 19, 1952.

CF&I

For Poultry Netting, Wire Fabric, and Wire Fence.
Claims use since July 31, 1932.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 619,273. Union Carbide and Carbon Corporation, New York, N. Y. Filed Sept. 26, 1951.

HASTELLOY

Applicant claims ownership of Registration No. 269,898.
For Metal Alloys; Metal Alloy Welding Rods; and Metal Alloy Castings, Forgings, Balls, Bars, Piping Stock, Plates, Rods, Rolls, Sheets, Strips, Tube Sheets, Tubing Stock, and Wire.
Claims use since 1929.

Ser. No. 627,720. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey. Filed Apr. 7, 1952.

KEYSTONE

Applicant claims ownership of Registrations Nos. 99,133, 145,026, and 213,269.
For Steel Sheets.
Claims use since June 30, 1912.

Ser. No. 634,479. Philipp Brothers Chemicals, Inc., New York, N. Y. Filed Aug. 26, 1952.

Phibro

The drawing is lined for shading only.
For Cadmium Metal, Copper, Zinc, Lead Arsenic, Tungsten, Molybdenum, Tantalum, and Selenium.
Claims use since Apr. 1, 1929.

Ser. No. 638,702. Edgcomb Steel Company, Philadelphia, Pa. Filed Nov. 28, 1952.

EDGCOMB

The drawing is lined to indicate red, but color is not claimed.
For Aluminum, Brass, and Steel Wire; Metal Tubing Stock, Rods, Bars, Castings, Plates, Sheets, Strip, Metal Pipe Stock.
Claims use since October 1934.

Ser. No. 638,703. Edgcomb Steel Company, Philadelphia, Pa. Filed Nov. 28, 1952.

EDGCOMB

For Aluminum, Brass, and Steel Wire; Metal Tubing Stock, Rods, Bars, Castings, Plates, Sheets, Strip, Metal Pipe Stock.
Claims use since October 1934.

Ser. No. 640,010. Joseph T. Ryerson & Son, Inc., Chicago, Ill. Filed Dec. 24, 1952. (Sec. 2f.)

E-Z-CUT

Applicant claims ownership of Registration No. 512,313.
For Steel.
Claims use since Apr. 11, 1946.

Ser. No. 641,106. Weiger Weed & Company, Detroit, Mich. Filed Jan. 21, 1953. (Sec. 2f.)

WEIGER-WEED

Applicant claims ownership of Registration No. 545,568.
For Alloys in Bar, Rod, and Slab Form.
Claims use since on or about Mar. 2, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 631,214. Moore & Munger, New York, N. Y. Filed June 14, 1952.

MIPOL

For Petroleum Wax Composition Containing Synthetic Rubber Adapted for Use in the Industrial Arts.
Claims use since about Dec. 12, 1945.

Ser. No. 631,215. Moore & Munger, New York, N. Y. Filed June 14, 1952.

POLAFFINE

For Petroleum Wax Composition Containing Synthetic Rubber Adapted for Use in the Industrial Arts.
Claims use since about Mar. 27, 1946.

Ser. No. 635,190. Moore & Munger, New York, N. Y. Filed Sept. 12, 1952.

DAIRAX

For Petroleum Wax Composition Adapted for Use in the Industrial Arts.
Claims use since Sept. 5, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 622,550. Northwest Chemical Co., Inc., Detroit, Mich. Filed Dec. 15, 1951.

spra-lube

For Water Wash Compound for Preventing Adhesion of Paint To Spray Booths.
Claims use since Oct. 13, 1949.

Ser. No. 625,469. Emjay Maintenance Corporation, Rutherford, N. J. Filed Feb. 25, 1952.

KOLMETAL

For a Protective Coating Composition for Coating Ship Cargo Tanks, Containers, Tank Cars, Tankers, Storage Tanks, and Other Storage Facilities, and as a Coating for Ships' Bulkheads, Machinery, Industrial Equipment, and Other Structural Work.
Claims use since on or about Mar. 6, 1951.

Ser. No. 637,598. Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Filed Nov. 4, 1952.

KEY-TINT

Applicant claims ownership of Registrations Nos. 55,505, 62,662, and others.
For Coloring Material in Semi-Paste Form for Inter-Mixing, Blending, and Tinting Water Paints, Oil Paints, Enamel Paints, and Other Paint Products.
Claims use since Oct. 16, 1952.

Ser. No. 638,322. Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Filed Nov. 19, 1952.

SOCOLAC

Applicant claims ownership of Registration No. 442,637.
For Ready Mixed Paints.
Claims use since Oct. 22, 1952.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 562,040. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

CHECKERBERRY

For Snuff.
Claims use since 1929.

Ser. No. 562,041. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

CHERRY

For Snuff.
Claims use since 1910.

Ser. No. 562,048. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

STRAWBERRY

For Snuff.
Claims use since 1922.

Ser. No. 562,054. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

WILD CHERRY

For Snuff.
Claims use since 1934.

Ser. No. 600,127. Fil-O-Matic Corporation, Chicago, Ill. Filed July 1, 1950.

FIL-O-MATIC CONTROL

Applicant disclaims the word "Control" apart from the mark as shown.

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Claims use since May 3, 1950.

Ser. No. 628,302. The McIntire Corporation, Cambridge, Mass. Filed Apr. 19, 1952. (Sec. 2f.)

"MORSE"

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Ser. No. 638,702. Edgcomb Steel Company, Philadelphia, Pa. Filed Nov. 28, 1952.

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Claims use since October 1934.

Ser. No. 638,703. Edgcomb Steel Company, Philadelphia, Pa. Filed Nov. 28, 1952.

EDGCOMB

For Aluminum, Brass, and Steel Wire; Metal Tubing Stock, Rods, Bars, Castings, Plates, Sheets, Strip, Metal Pipe Stock.

Claims use since October 1934.

Ser. No. 640,010. Joseph T. Ryerson & Son, Inc., Chicago, Ill. Filed Dec. 24, 1952. (Sec. 2f.)

E-Z-CUT

Applicant claims ownership of Registration No. 512,313.

For Steel.

Claims use since Apr. 11, 1946.

Ser. No. 641,106. Weiger Weed & Company, Detroit, Mich. Filed Jan. 21, 1953. (Sec. 2f.)

WEIGER-WEED

Applicant claims ownership of Registration No. 545,368.

For Alloys in Bar, Rod, and Slab Form.

Claims use since on or about Mar. 2, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 631,214. Moore & Munger, New York, N. Y. Filed June 14, 1952.

MIPOL

For Petroleum Wax Composition Containing Synthetic Rubber Adapted for Use in the Industrial Arts.

Claims use since about Dec. 12, 1945.

Ser. No. 631,215. Moore & Munger, New York, N. Y. Filed June 14, 1952.

POLAFFINE

For Petroleum Wax Composition Containing Synthetic Rubber Adapted for Use in the Industrial Arts.

Claims use since about Mar. 27, 1946.

Ser. No. 635,190. Moore & Munger, New York, N. Y. Filed Sept. 12, 1952.

DAIRAX

For Petroleum Wax Composition Adapted for Use in the Industrial Arts.

Claims use since Sept. 5, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

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spra-lube

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Claims use since Oct. 13, 1949.

Ser. No. 625,469. Emjay Maintenance Corporation, Rutherford, N. J. Filed Feb. 25, 1952.

KOLMETAL

For a Protective Coating Composition for Coating Ship Cargo Tanks, Containers, Tank Cars, Tankers, Storage Tanks, and Other Storage Facilities, and as a Coating for Ships' Bulkheads, Machinery, Industrial Equipment, and Other Structural Work.

Claims use since on or about Mar. 6, 1951.

Ser. No. 637,598. Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Filed Nov. 4, 1952.

KEY-TINT

Applicant claims ownership of Registrations Nos. 55,505, 62,662, and others.

For Coloring Material in Semi-Paste Form for Inter-Mixing, Blending, and Tinting Water Paints, Oil Paints, Enamel Paints, and Other Paint Products.

Claims use since Oct. 16, 1952.

Ser. No. 638,322. Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Filed Nov. 19, 1952.

SOCOLAC

Applicant claims ownership of Registration No. 442,637.

For Ready Mixed Paints.

Claims use since Oct. 22, 1952.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 562,040. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

CHECKERBERRY

For Snuff.

Claims use since 1929.

Ser. No. 562,041. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

CHERRY

For Snuff.

Claims use since 1910.

Ser. No. 562,048. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

STRAWBERRY

For Snuff.

Claims use since 1922.

Ser. No. 562,054. George W. Helme Company, New York, N. Y. Filed July 23, 1948. (Sec. 2f.)

WILD CHERRY

For Snuff.

Claims use since 1934.

Ser. No. 627,156. The Weideman Company, Cleveland, Ohio. Filed Mar. 27, 1952. (Sec. 2f as to "Weideman's.")



Applicant claims ownership of Registrations Nos. 127,999 and 156,778.
For Cigars.
Claims use since January 1904.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 620,834. American Cyanamid Company, New York, N. Y. Filed Nov. 3, 1951.

TEMPOSIL

For Sedative.
Claims use since Oct. 18, 1951.

Ser. No. 623,471. Samuel S. Loseff, doing business as Loseff Laboratory, Chicago, Ill. Filed Jan. 11, 1952.

NITOCIN

For Preparation for the Treatment and Control of the Tobacco Habit.
Claims use since December 1949.

Ser. No. 626,605. Carlo Erba Società per Azioni, Milan, Italy. Filed Mar. 18, 1952.

KEMICETINE

Applicant claims ownership of Italian Registration No. 97,034, dated Mar. 24, 1950.
For Pharmaceutical Products—Namely, Antibiotics.

Ser. No. 628,169. Joaquin Ramos, doing business as Universal Botanic, Brooklyn, N. Y. Filed Apr. 16, 1952.

BALSAMO
GRAN PODER

The English translation of "Balsamo" is "Balm," of "Gran" is "Great," and of "Poder" is "Force." No claim is made to the word "Balsamo" apart from the name shown on the drawing.
For Medicated Liniment for Rheumatic Pains, Lumbago, and the Like.
Claims use since Jan. 28, 1952.

Ser. No. 633,967. Howard B. Bishop, doing business under the name Homanic Brands, Summit, N. J. Filed Aug. 15, 1952.

provimalt

For High Protein Food Supplement.
Claims use since May 3, 1948.

Ser. No. 634,088. Keysmin, Inc., Long Beach, Calif. Filed Aug. 18, 1952.



For Food Supplement, Consisting of Various Vitamins and Minerals.
Claims use since May 10, 1949.

Ser. No. 637,059. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

LIQUACILLIN

For Medicinal Preparation of Penicillin Powder With Buffered Diluent Used in the Treatment of Bacterial Infections.
Claims use since Sept. 10, 1951.

Ser. No. 637,061. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

PANCEBRIN

Applicant claims ownership of Registrations Nos. 432,596, 375,557, and others.
For Medicinal Preparation of Injectable Multiple-Vitamin Used in the Therapeutic Treatment of Such Conditions as Preoperative and Postoperative Surgery, Burns, Impaired Absorption, Fever, and Certain Infections.
Claims use since Nov. 5, 1951.

Ser. No. 637,063. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

TYCOPAN

For Medicinal Preparation of Vitamins and Nutritional Factors Used in the Treatment of Chronic Alcoholism and as a Nutritional Supplement in Geriatrics and Convalescence.
Claims use since Sept. 17, 1951.

Ser. No. 638,949. Eugene Des Noyers, Branch Village, R. I. Filed Dec. 4, 1952.

D-noy-R

For Ointment for Treating the Scalp and Promoting Hair Growth.
Claims use since Nov. 13, 1952.

CLASS 19

VEHICLES

Ser. No. 633,395. Temco Aircraft Corporation, Grand Prairie and Dallas, Tex. Filed Aug. 1, 1952.



No claim is made to the exclusive use of the words "Aircraft Corporation," the representation of the airplanes and the outline map of the State of Texas apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 557,401 and 560,423.
For Airplanes and the Structural or Body Parts of Airplanes.
Claims use since June 6, 1952.

Ser. No. 635,638. Ford Motor Company Limited, London, England. Filed Sept. 23, 1952.

Anglia

For Passenger Automobiles and Structural Parts Thereof.
Claims use since on or about January 1940.

Ser. No. 643,751. Zimmer Boat & Trailer Co., Detroit, Mich. Filed Mar. 16, 1953.

ELCAR

Applicant claims ownership of Registration No. 351,493.
For House Trailers.
Claims use since Feb. 1, 1944.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 567,482. Andrew Corporation, Chicago, Ill. Filed Oct. 23, 1948. (Sec. 2f as to "Andrew.")

Andrew
CORPORATION

The word "Corporation" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 403,521.
For Electrical Equipment—Namely, Coaxial Cable; Coaxial Transmission Lines; Transmission Line Fittings—Namely, Couplings, Nipples, Elbows, Connectors, and Junction Boxes; Transmission Line Insulators and Terminals; Antennas; Phasing Networks, Inductors for Antenna Tuning; and Tower Lighting Equipment—Namely, Warning Lights and Code Beacons.
Claims use since Dec. 15, 1947, on the mark as shown; and since February 1937 as to "Andrew."

Ser. No. 577,833. Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. Filed Apr. 27, 1949.

X-ACTRON

For Automatic X-Ray Control Apparatus—Namely, a Stabilizer for the Output-Current of an X-Ray Tube.
Claims use since Nov. 10, 1944.

Ser. No. 579,160. American Machine and Foundry Company, New York, N. Y. Filed May 20, 1949.

Radaray

For Electrically Operated Foul Detecting and Indicating Apparatus for Bowling Alleys.
Claims use since on or about Jan. 31, 1949.

Ser. No. 593,421. Leonard Spark Plug Co. Inc., Newark, N. J. Filed Mar. 4, 1950.

LEONARD
HIGH
COMPRESSION

The words "High Compression" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 262,304.
For Spark Plugs.
Claims use since July 1, 1927.

Ser. No. 615,295. Springfield Electrical Specialties, Inc., New York, N. Y. Filed June 16, 1951.



Applicant disclaims the exclusive right to that portion of the mark consisting of the words "Super Point," except as the same is used in association with the other features of the mark.
For Electrical Contact or Breaker Points.
Claims use since 1947.

Ser. No. 617,495. Hanson-Van Winkle-Munning Company, Matawan, N. J. Filed Aug. 9, 1951. (Sec. 2f as to "Hanson-Van Winkle-Munning Co.")



No claim is made herein to the words "Matawan, New Jersey, U. S. A." or "Co." apart from the mark shown

in the drawing. Applicant claims ownership of Registration No. 258,325.

For Apparatus for Electroplating, Anodically Treating, Electrocleaning, Electropickling, Electroetching, and Electropolishing.

Claims use since Dec. 15, 1927.

Ser. No. 620,385. Edwin L. Wiegand Company, Pittsburgh, Pa. Filed Aug. 21, 1951. (Sec. 2f.)

TRIANGULAR

Applicant claims ownership of Registrations Nos. 441,363 and 505,118.

For Electric Range Units and Immersion Heaters, and Parts Thereof.

Claims use since June 1, 1946.

Ser. No. 623,578. American Locomotive Company, New York and Schenectady, N. Y. Filed Jan. 15, 1952.

Alco

Applicant claims ownership of Registration No. 131,278.

For Diesel-Electric Locomotives.

Claims use since Sept. 19, 1945.

Ser. No. 624,203. Paramount Television & Appliance Co., Providence, R. I. Filed Jan. 28, 1952.

Paramount

For Television Sets and Radios.

Claims use since on or about Sept. 1, 1951.

Ser. No. 624,526. Eugene Chernoy, Ocean Park, Calif. Filed Feb. 5, 1952.

alert

No claim is made to the representation of a lamp shade apart from the mark as shown.

For Electrical Lamps, Lamp Shades, and Lighting Fixtures.

Claims use since Jan. 15, 1946.

Ser. No. 624,829. Russell Hellegers, Paterson, N. J. Filed Feb. 12, 1952.

RUS-O-LITE

The word "Lite" is disclaimed apart from the mark as shown.

For Narrowbeam Spotlights, High Intensity Flood-Lighting, Display Lighting.

Claims use since Aug. 1, 1951.

Ser. No. 628,579. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.

SIMANCO

Applicant claims ownership of Registrations Nos. 91,518, 91,911, and 175,840.

For Electric Motors, Electro-Mechanical Drives, Electric Transmitters, Electronic Bonding Machines for Operation Upon Thermoplastic Dielectric Materials, Electric Motor Controllers Including Electric Switches and Rheostats for Controlling the Starting, Stopping, and Speed of Electric Motors, Electric Fans, Electric Flat Iron Cord Supports, Electric Lighting Fixtures, Electric Switches, Electrical Switch Boxes, Electrical Terminal Boxes, and Repair and Replacements Parts for the Above Goods.

Claims use since in the year 1923.

Ser. No. 631,302. National Union Radio Corporation, Orange, N. J. Filed June 17, 1952.

"VIDEOTRON"

For Cathode Ray Tubes.

Claims use since Oct. 15, 1941.

Ser. No. 632,259. Magnecord, Inc., Chicago, Ill. Filed July 8, 1952.

Magne Cordette

For Magnetic Tape Sound Recorders and Parts Thereof.

Claims use since Mar. 3, 1952.

Ser. No. 633,350. W. M. Cline Company, Chattanooga, Tenn. Filed Aug. 1, 1952.

Color-King

No claim is made to the word "Color" except in association with the mark as shown.

For Lamp Shades Made From Transparent Photographic Film.

Claims use since May 1950.

Ser. No. 633,363. Heyer Industries Incorporated, Belleville, N. J. Filed Aug. 1, 1952. (Sec. 2f as to "Heyer.")

HEYER FACTORY APPROVED EQUIPMENT

The words "Factory Approved Equipment" are disclaimed apart from the mark as shown in the drawing.

For Electrical Equipment—Namely, Battery Chargers and Power Transformers.

Claims use since July 25, 1950 as to the mark shown; and since Oct. 24, 1925 as to the surname "Heyer."

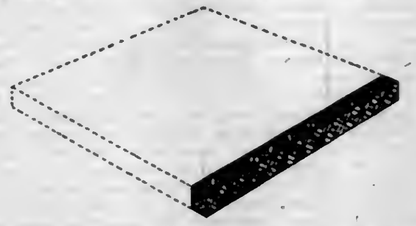
Ser. No. 637,922. H & H Sales & Mfg. Company, Pittsburgh, Pa. Filed Nov. 12, 1952.

SPACE BOY

For Casings for Flash Lights.

Claims use since Oct. 16, 1952.

Ser. No. 638,208. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Nov. 17, 1952.



The mark comprises a Scotch plaid design. The drawing is lined to represent the colors red and black. The dotted squares comprise a screen printing of black over red. The diagonal lines bisecting the red and dotted squares are black in color. The diagonal lines bisecting the black and dotted squares are white in color. The outline of the box forms no part of the trade-mark. Applicant claims ownership of Registration No. 544,478.

For Magnetic Tape for Recording Sounds, Signals, Impulses, Etc., for Subsequent Reproduction.

Claims use since at least as early as August 1950.

Ser. No. 638,526. The Robert Dollar Co., San Francisco, Calif. Filed Nov. 24, 1952.



The drawing is lined for the color red. Applicant claims ownership of Registration No. 344,584.

For Radio Tubes—Namely, Receiving and Transmitting Tubes, Radio Transmitters and Receivers, and Parts Therefor.

Claims use since about Sept. 1, 1952.

Ser. No. 638,527. The Robert Dollar Co., San Francisco, Calif. Filed Nov. 24, 1952.



The drawing is lined for the color red.

For Radio Tubes—Namely, Receiving and Transmitting Tubes, Radio Transmitters and Receivers, and Parts Therefor.

Claims use since about Sept. 1, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 627,339. Domenick Ippolito, doing business as Hollywood Doll Manufacturing Co., Glendale, Calif. Filed Mar. 31, 1952.

Queen for a Day

For Dolls and Doll Clothes.

Claims use since Jan. 29, 1947.

Ser. No. 635,615. U. S. Plastic Co., Pasadena, Calif. Filed Sept. 22, 1952.

Flying-Saucer GUN

The word "Gun" is disclaimed apart from its use in the mark.

For Toy Guns.

Claims use since Dec. 29, 1950.

Ser. No. 636,012. Glo-Lure, Inc., Medford, Wis. Filed Oct. 1, 1952. (Sec. 2f.)

Glo-Lure

For Artificial Fish Baits.

Claims use since October 1945.

Ser. No. 636,021. The Judy Company, Minneapolis, Minn. Filed Oct. 1, 1952.

SEE-QUEES

For Puzzles—Namely, Story Boards Featuring Depressed Squares or Pieces.

Claims use since Sept. 1, 1950.

Ser. No. 636,073. Fury Manufacturing Company, Brighton, Mich. Filed Oct. 2, 1952.

FURY

For Artificial Fish Lures.

Claims use since Dec. 1, 1950.

Ser. No. 636,674. American Model Toys, Inc., Auburn, Ind. Filed Oct. 16, 1952.

LIFTAMATIC

For Toy Model Coupling Devices—Namely, Railway Car Couplers and Track Ramps.
Claims use since Aug. 1, 1952.

Ser. No. 640,030. Dayton Bait Company, Dayton, Ohio. Filed Dec. 26, 1952.



For Floats Used in Fishing.
Claims use since November 1948.

Ser. No. 641,065. Louis Marx & Co. Inc., New York, N. Y. Filed Jan. 21, 1953.

EISENHOPPER

For Spring Jump Toy.
Claims use since Jan. 8, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 526,727. Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation. Filed July 5, 1947. (Sec. 2f.)

WORTHINGTON

Applicant claims ownership of Registrations Nos. 153,081, 155,130, and others.

For Hydraulic Decoking Systems and Apparatus for Removing Coke from Coke Chambers in Oil Refineries; Hydraulic Log Debarking Apparatus; Concrete Mixers, Paving Machines, Pneumatic Concrete Placers and Grouters; Welding Positioners Comprising Adjustable Supporting Structures for Holding and Positioning Material During Welding Operations, Turning Rolls for Supporting and Turning Material and Objects During Welding Operations; Industrial Mixers Comprising Apparatus for Thoroughly Mixing a Number of Ingredients Such as the Ingredients of Candy, Cake, Bread, Chemical Compounds in Relatively Large Quantities and Various Mixtures of a Number of Ingredients Used in Various Industries; Power Transmitting Equipment Including Multiple V-Belt Drives, V-Groove Sheaves, Variable Speed Drives; Packaged Steam Power Plants Including Steam Generating Means, Engines or Turbines, Condensers and Feedwater Heaters Sold as a Unit; Steam Turbines, and Gear Speed Reducers.
Claims use since 1905.

Ser. No. 526,737. Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation. Filed July 5, 1947. (Sec. 2f.)

WORTHINGTON

Applicant claims ownership of Registrations Nos. 153,081, 155,130, and others.

For Hydraulic Decoking Systems and Apparatus for Removing Coke from Coke Chambers in Oil Refineries; Hydraulic Log Debarking Apparatus; Concrete Mixers, Paving Machines, Pneumatic Concrete Placers and Grouters; Welding Positioners Comprising Adjustable Supporting Structures for Holding and Positioning Material During Welding Operations, Turning Rolls for Supporting and Turning Material and Objects During Welding Operations; Industrial Mixers Comprising Apparatus for Thoroughly Mixing a Number of Ingredients Such as the Ingredients of Candy, Cake, Bread, Chemical Compounds in Relatively Large Quantities and Various Mixtures of a Number of Ingredients Used in Various Industries; Power Transmitting Equipment Including Multiple V-Belt Drives, V-Groove Sheaves, Variable Speed Drives; Packaged Steam Power Plants Including Steam Generating Means, Engines or Turbines, Condensers and Feedwater Heaters Sold as a Unit; Steam Turbines, and Gear Speed Reducers.
Claims use since 1905.

Ser. No. 563,258. Kiekhaefer Corporation, Cedarburg, Wis. Filed Aug. 12, 1948.

MERCURY

For Outboard Motors and Parts Thereof.
Claims use since Jan. 9, 1947.

Ser. No. 563,259. Kiekhaefer Corporation, Cedarburg, Wis. Filed Aug. 12, 1948.

MERCURY

For Outboard Motors and Parts Thereof.
Claims use since Feb. 3, 1940.

Ser. No. 579,374. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed May 23, 1949. (Sec. 2f.)

UTILITY

Applicant claims ownership of Registration No. 135,817.
For Sprayers of Insecticides and Other Purposes, and Sprayer Parts.
Claims use since Apr. 6, 1917.

Ser. No. 589,545. Ace Drill Corporation, Adrian, Mich. Filed Dec. 19, 1949.

ACE

For Drills, Drill Blanks, Router Bits, End Mills, Carbide Tipped and Solid Carbide Tools, Boring Bars, Tool Bits, Engraving Tools, and Rolls.
Claims use since on or about Apr. 10, 1933.

Ser. No. 600,086. Sentinel (Shrewsbury) Limited, Shrewsbury, Shropshire, England. Filed June 30, 1950.



The representation of the man is fanciful. Applicant claims ownership of British Registration No. 676,147, dated Jan. 14, 1949.

For Internal Combustion Engines, Portable Engines (Not for Land Vehicles) Including a Steam Boiler and a Steam Engine Forming a Single Unit Used in a Stationary Condition But Mounted on a Vehicle to Enable It To Be Moved From One Operative Position to Another, Carburettors, Machine Tools—Namely, Screw-Threaded Cutting Machines, Lathes, Punching and Shaping Machines, and Milling Machines, and Coal Mining Machinery—Namely, Coal Cutters, Loaders and Conveyors.

Ser. No. 608,420. Lake Shore Engineering Company, Iron Mountain, Mich. Filed Jan. 5, 1951.

JETO

For Mine Skips Comprising a Vertical Bucket Carried on a Frame Which Is Hoisted Vertically in the Mine Shaft.
Claims use since Sept. 28, 1950.

Ser. No. 620,488. Behr-Manning Corporation, Troy, N. Y. Filed Oct. 26, 1951. (Sec. 2f as to "Behr.")

BEHR-DISKER

For Coated Abrasive Grinding and Polishing Machinery Accessories—Namely, Sanding Pad Assemblies.
Claims use since Jan. 28, 1949.

Ser. No. 621,082. Perfumatic of Canada Limited, Toronto, Ontario, Canada. Filed Nov. 26, 1951.



The drawing is lined for black and gold. All wording, except "Perfumatic," is disclaimed apart from the mark shown.

For Coin-Operated Vending Machinery for Spraying Perfume.
Claims use since Apr. 26, 1951.

Ser. No. 622,486. Dille & McGuire Mfg. Co., Richmond, Ind. Filed Dec. 14, 1951. (Sec. 2f.)

LAWNMASTER

Applicant claims ownership of Registration No. 373,680.
For Lawn Mowers.
Claims use since 1938.

Ser. No. 623,630. Pearlduck, Inc., New York, N. Y. Filed Dec. 21, 1951.

Satinedge

Applicant claims ownership of Registration No. 284,841.
For Razors, Shears, Scissors, Knives of Base Metal and Hair Clippers.
Claims use since Oct. 1, 1930.

Ser. No. 624,838. Lan-Elec Limited, Slough, England. Filed Feb. 12, 1952.

Tendex

Applicant claims ownership of British Registration No. 698,235, dated May 17, 1951.
For Hand-Operated Machines for the Processing of Meat.
Claims use since 1951 in the United States; and in commerce lawfully regulated by Congress.

Ser. No. 624,982. Tree Tool & Die Works, Racine, Wis. Filed Feb. 14, 1952. (Sec. 2f.)

TREE

For Metal Working Machines—Namely, Milling Machines Embodying a Rotary Cutter or Miller for Working on Metal and Parts Thereof.
Claims use since Jan. 12, 1939.

Ser. No. 627,622. Brälsch & Co., Zurich, Switzerland. Filed Apr. 5, 1952.

TURISSA

Applicant claims ownership of Swiss Registration No. 134,303, dated July 10, 1950; and United States Registration No. 552,012.
For Sewing and Darning Machines and Parts Thereof.

Ser. No. 628,608. Barber-Colman Company, Rockford, Ill. Filed Apr. 24, 1952. (Sec. 2f.)

BARBER-COLMAN

Applicant claims ownership of Registration No. 527,781.
For Metal Cutting Tools—Namely, Hobs, Reamers, Milling Cutters.
Claims use since 1916.

Ser. No. 631,822. Spotnails, Inc., Evanston, Ill. Filed June 26, 1952.

COIL-HAMMER

No registration rights are claimed for the word "Hammer" apart from the mark.
For Manual Stapling Machines.
Claims use since Dec. 26, 1951.

Ser. No. 631,914. American Locomotive Company, New York and Schenectady, N. Y. Filed June 28, 1952.

Alco

For Turbine Superchargers for Diesel Engines.
Claims use since June 26, 1952.

Ser. No. 632,411. Carl O. Bachman, Watertown, N. Y. Filed July 11, 1952.

PACE MAKER

For Printing Press.
Claims use since Sept. 12, 1950.

Ser. No. 633,048. Fiat Società per Azioni, Turin, Italy. Filed July 25, 1952.

FIAT

Applicant claims ownership of Italian Registration No. 101,700, dated Apr. 12, 1951; and United States Registration No. 555,359.
For Planing Machines, Slotting Machines, Boring Machines, Screw Cutting Machines, Shearing Machines, Forging Machines, and Sewing and Stitching Machines.

Ser. No. 634,905. Lunchomat Corporation of America, Dover, Del., and New York, N. Y. Filed Sept. 5, 1952.

LUNCHOMAT

No claim is made to the word "Lunch" apart from the mark shown in the drawing.
For Coin-Controlled Manually-Operated Vending Machines for Vending Packaged Foods and Beverages.
Claims use since Nov. 15, 1950.

Ser. No. 636,933. Richard H. Le Fever, Chester, Pa. Filed Oct. 21, 1952.

Sew-beam

Applicant disclaims the right to any exclusive use of the word "Sew" except in the association shown.
For Sewing Machines.
Claims use since Aug. 2, 1952.

Ser. No. 638,724. Lewis-Shepard Products, Inc., Watertown, Mass. Filed Nov. 28, 1952. (Sec. 2f.)

JACKSTACKER

Applicant claims ownership of Registrations Nos. 535,488, 119,194, and 536,309.
For Materials-Handling Equipment—Namely, Trucks Actuated Horizontally and With Pick-Up, Discharge, Lifting, and Lowering Devices Utilizing Mounted Power Units.
Claims use since Sept. 16, 1947.

Ser. No. 638,725. Lewis-Shepard Products, Inc., Watertown, Mass. Filed Nov. 28, 1952. (Sec. 2f.)

JACKTRACTOR

Applicant claims ownership of Registrations Nos. 119,194, 535,488, and 536,309.
For Materials-Handling Trucks Actuated Horizontally by Mounted Power Units and Particularly Designed To Push or Pull One or More Loaded or Unloaded Trailers or Trailer Trucks.
Claims use since June 6, 1947.

Ser. No. 640,628. Paul Hainke Mfg. Co., Hutchinson, Kans. Filed Jan. 12, 1953.

SUNRACER

For Power Driven Lawn Mowers and Parts Thereof.
Claims use since Nov. 21, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 600,772. G. M. Gibson Corporation, Bellevue, Iowa. Filed July 17, 1950.

PRESTOMAT

For Clothes Washing Machines, Clothes Ironers, and Mechanical Clothes Driers.
Claims use since Dec. 9, 1949.

Ser. No. 639,513. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Ironing Board Covers and Clothes Pins.
Claims use since 1932.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 592,066. Bacharach Industrial Instrument Company, Pittsburgh, Pa. Filed Feb. 7, 1950.

ARDOCHECK

For Control Instruments Employed To Regulate Heat Output of Combustion Heating Facilities Such as Stoves, Heaters, Furnaces, Etc., Through Flue Draft Regulation—Namely, Thermostatically Operable Regulators of This Character.
Claims use since Sept. 22, 1949; was first used in commerce among the several States on Sept. 22, 1949, and between foreign nations and the United States on Sept. 28, 1949.

Ser. No. 601,492. The Clinical Laboratories, Inc., Phoenix, Ariz. Filed July 31, 1950.

CLICO

For Laboratory and X-Ray Supplies Consisting of Glassware for Laboratory Use Comprising Blood Diluting Pipettes, Hemoglobin Pipettes, Microscopic Glass Slides, Microscopic Cover Glass, Volumetric Pipettes, Serological Pipettes, Burettes, Metal Test Tube Racks, Metal Test Tube Baskets, Micro Slides, Incubators for Laboratory Use, Constant Temperature Water Baths for Laboratory Use, Spectrophotometers, Photo Electric Colorimeters, and X-Ray Viewing Boxes for Laboratory Use.
Claims use since Dec. 1, 1949.

Ser. No. 624,467. Chartometer Company, Inc., Valley Stream, N. Y. Filed Feb. 4, 1952.

neotrav

For Routegraph Instruments Which Are Combined Mileage Meters and Route Indicators, Sometimes Known as Odometers.
Claims use since Jan. 21, 1952.

Ser. No. 636,204. H. Maihak Aktiengesellschaft, Hamburg, Germany. Filed Nov. 17, 1952.

MONO

Applicant claims ownership of German Registration No. 524,630, dated Sept. 12, 1940.
For Apparatus for Analyzing Gases and Repair Parts Therefor.

Ser. No. 638,362. International Minerals & Chemical Corporation, Chicago, Ill. Filed Nov. 20, 1952.

Costolator

For Portion Cost Calculator for Foods.
Claims use since Oct. 19, 1951.

Ser. No. 638,465. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 22, 1952. (Sec. 2f.)

MAY

For Ophthalmoscopes and Components Thereof.
Claims use since 1917.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 609,491. Merit Watch Company, Inc., New York, N. Y. Filed Feb. 1, 1951. (Sec. 2f.)

MERIT

Applicant claims ownership of Registration No. 413,735.
For Watches and Watch Parts.
Claims use since Feb. 17, 1944.

Ser. No. 621,624. Fratelli Borletti Societa' per Azioni, Milan, Italy. Filed Nov. 24, 1951.

TACHIMEDION R. 18

Priority is claimed under Sec. 44(d). Italian application filed July 31, 1951, Registration No. 104,364, dated Nov. 26, 1951.
For Watches for Wrist and Pocket, Clocks for Table, Clocks and Watches of any Kind, Including Alarm Clocks.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 616,261. Veterans of Foreign Wars of the United States, Kansas City, Mo. Filed July 9, 1951.

Applicant claims ownership of Registration No. 283,936.
For Lapel Emblems, Belt Buckles, Tie Clasps, Cuff Links, Trophy Cups, Watch Chains, Cravet Chains, Or-

namental Buttons, Collar Ornaments and Collar Pins, All Made Wholly or in Part of or Plated With Precious Metal, Watch Bands, Scarf Pins, Finger Rings, and Charms.
Claims use since 1920.

Ser. No. 618,325. William S. Pardee, doing business as The Pardee Company, Hollywood, Calif. Filed Sept. 1, 1951.



The representation of the goods is disclaimed apart from the mark shown in the drawing.
For Synthetic Precious and Semi-Precious Gems.
Claims use since Aug. 2, 1951.

Ser. No. 627,032. Carol Antell, Inc., New York, N. Y. Filed Mar. 26, 1952.

Carol Antell

The name "Carol Antell" is the pseudonym of applicant's president and is not a facsimile of the signature of said applicant's president. Applicant claims ownership of Registrations Nos. 416,791 and 513,458.
For Costume Jewelry and Ornaments for Personal Wear—Namely, Brooches, Pins, Clips, Earrings, Finger Rings, Anklets, Bracelets, and Charms.
Claims use since January 1943.

Ser. No. 627,239. Robert Allen Company, Minneapolis, Minn. Filed Mar. 29, 1952.

Arré

For Ladies' Costume Jewelry—Namely, Brooches, Pins, Necklaces, Earrings, Bracelets, and Scatter Pins.
Claims use since Feb. 15, 1952.

Ser. No. 630,856. Sigma Phi Delta Fraternity, Urbana, Ill. Filed June 6, 1952.



Sigma Phi Delta

Applicant claims ownership of Registration No. 282,425.
For Fraternity Pins, Badges, Buttons, and Keys Made of Precious Metal.
Claims use since April 1934.

Ser. No. 631,279. Exquisite Gem Company, Chicago, Ill. Filed June 17, 1952.

Rutania

Applicant disclaims the pictorial representations of the goods apart from the mark as shown.
For Synthetic Diamonds Cut and Polished for Use in Manufacturing Jewelry.
Claims use since Apr. 1, 1952.

Ser. No. 640,638. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Filed Jan. 12, 1953.

Toby

For Watch Bands.
Claims use since July 15, 1952.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 618,206. Easterling China Company, Chicago, Ill. Filed Aug. 29, 1951.



No claim of exclusive right is made to the words "Specially Made for in Bavaria Germany." The mark comprises the word "Easterling" written in script lettering and displayed above a stylized design generally resembling a butterfly around and below which the words "Specially Made for in Bavaria Germany" form a semi-circle.
For China Tableware.
Claims use since Apr. 9, 1951.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 557,871. Sealy, Incorporated, Chicago, Ill. Filed May 26, 1948. (Sec. 2f.)



The representation of the woman is fanciful. The representation of the mattress is disclaimed apart from the

mark. Applicant claims ownership of Registrations Nos. 426,168 and 433,307.
For Mattresses, Box Springs, Sofa Beds, Divans, Studio Couches, Pillows, Bed Springs.
Claims use since 1889 on the word "Sealy"; and since 1942 on the mark as shown.

Ser. No. 559,043. Nurserytyme Products, Brooklyn, N. Y. Filed June 11, 1948.

Nurserytyme
WITH THE BILT-IN BACK SUPPORT
CRIB MATTRESS

The words "With the Bilt-In Back Support" and "Crib Mattress" are disclaimed. Applicant claims ownership of Registrations Nos. 417,475 and 435,660.
For Crib Mattresses.
Claims use since Jan. 18, 1946.

Ser. No. 613,214. Robert S. Daniel, trading as Commercial Visible Systems, Washington, D. C. Filed Apr. 27, 1951.

GUIDEX

For Metal Guides for Filing Cabinets and Filing Drawers Suitable for Office Desks.
Claims use since May 0, 1950.

Ser. No. 620,321. Northome Furniture Industries, Inc., Dubuque, Iowa. Filed Oct. 22, 1951.

Flexsteel

Applicant claims ownership of Registrations Nos. 270,387, 334,882, and 524,712.
For Upholstered Sofas, Davenports, Love Seats, Settees, Chaise Longues, Chairs, Rockers, Ottomans, Studio Couches, Day Beds, and Bed Springs.
Claims use since May 1, 1929.

Ser. No. 626,531. The Peabody Seating Company, Inc., North Manchester, Ind. Filed Mar. 15, 1952. (Sec. 2f.)



Applicant makes no claim by reason of this registration to the exclusive use of the words "Folding Chairs," "School Desks," apart from the entirety of the mark as shown. The wafer and ribbon outline are lined for the color red.
For Desks and Seating Equipment—Namely, Chairs, Chairs With Folding Seats, Folding Chairs, and School Chairs.
Claims use since on or about Mar. 29, 1921.

Ser. No. 627,126. Gordon Sales, Inc., Detroit, Mich. Filed Mar. 27, 1952.

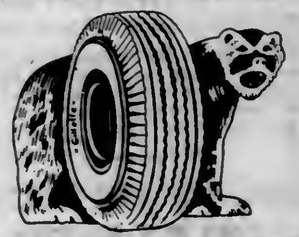
ELAST-O-PAD

The term "Pad" which is shown as part of the mark is merely descriptive and is disclaimed.
For Spring Pads or Supports in the Form of Plastic Laminates Which Prevent Spring Pads From Cupping Into the Coil Springs, in Furniture Seat Cushions, Furniture Seat Backs, and Mattresses.
Claims use since on or about Sept. 1, 1950.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 638,504. United States Rubber Company, New York, N. Y. Filed Nov. 22, 1952. (Sec. 2f as to "Gillette.")



No claim is made to the representation of a tire apart from the mark as shown. Applicant claims ownership of Registration No. 155,426.
For Pneumatic Tires and Inner Tubes.
Claims use since August 1946 as shown; and since 1918 as to the word "Gillette."

Ser. No. 642,466. Goodall Rubber Company, Trenton, N. J. Filed Feb. 19, 1953.

HARDROK

For Air Hose.
Claims use since Mar. 7, 1952.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 626,702. Scherl & Roth, Inc., Cleveland, Ohio. Filed Mar. 19, 1952.

E. R. Pfretzschner

The name "E. R. Pfretzschner" does not refer to any particular living individual.
For Violas, Cellos, and String Basses.
Claims use since 1950.

CLASS 37

PAPER AND STATIONERY

Ser. No. 575,124. Crystal Tube Corporation, Chicago, Ill. Filed Mar. 9, 1949.

Applicant claims ownership of Registration No. 341,115.

For Wrapping and Packaging Materials in the Form of Printed and Unprinted Sheets or Rolls Made of Fibrous or Non-Fibrous Flexible Materials—Namely, Paper, Cardboard, Glassine, and Films Such as Regenerated Cellulose Known as Cellophane, Laminated or Mounted Combinations of Various Ones of Such Materials With Each Other and Also With Metallic Foils.

Claims use since Sept. 9, 1944.

Ser. No. 612,939. The Todd Company, Inc., Rochester, N. Y. Filed Apr. 20, 1951.

FORM-MASTER

The word "Form" is disclaimed apart from the mark as shown.

For Posting Boards and Partially Printed Forms for Use Therewith—Namely, Payroll Earnings, Record Sheets, Payroll Summary Sheets, Payroll Bank Checks, and Payroll Cash Statements Sold as Such.

Claims use since October 1938.

Ser. No. 616,321. Tested Papers of America, Inc., Chicago, Ill. Filed July 14, 1951. (Sec. 2f.)

TEST LINE

Applicant claims ownership of Registrations Nos. 380,824, 380,825, and 380,443.

For Facial and Toilet Tissue, Wax Paper, Paper Napkins, Paper Towels, Butcher's Paper, Kraft Paper, Waxed Kraft Paper, Waterproof Paper for Wrapping Purposes and Paper Case Liners, and Specially Treated Locker Paper.

Claims use since Jan. 12, 1940.

Ser. No. 616,324. Tested Papers of America, Inc., Chicago, Ill. Filed July 14, 1951. (Sec. 2f.)

Test-Mark

Applicant claims ownership of Registrations Nos. 380,823, 380,824, and 380,443.

For Paper Towels, Facial Tissue, Toilet Tissue, Paper Toilet Seat Covers, Paper Napkins, Wax Paper, Washable Paper Shelf Covering, Gift Wrapping Paper, Butcher's Paper, Steak Paper for Interleaving and Tray Lining, Frozen Food Wrapping Paper, Paper Ordnance Wrappers Which Are Grease-Proof, Acid-Free, Non-Corrosive, and Wax Free, Paper Food Wrappers, and Wrapping Paper.

Claims use since Jan. 29, 1940.

Ser. No. 636,218. Eagle Pencil Company, New York, N. Y. Filed Oct. 6, 1952.

ARCADIA

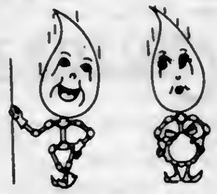
For Wood Encased Pencils.

Claims use since Oct. 18, 1903.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 586,787. Elmer E. Boegli, Charleston, S. C. Filed Oct. 23, 1949.



For Column Appearing at Predetermined Periods in a periodical or trade magazine.

Claims use since June 23, 1949.

Ser. No. 624,981. Terrytoons, Inc., New Rochelle, N. Y. Filed Feb. 14, 1952.

PAUL TERRY'S



FARMER GRAY

"Farmer Gray" and the representation of a farmer, as shown on the drawing, are fictitious.

For Comic Strips in Comic Magazines.

Claims use since Feb. 5, 1952.

Ser. No. 627,782. Theosophical Endowment Corporation, doing business as Theosophical University Press, Pasadena and Altadena, Calif. Filed Apr. 8, 1952.

Sunrise

For Non-Sectarian, Non-Political Monthly Publication Advocating Universal Brotherhood.

Claims use since Oct. 15, 1951.

Ser. No. 629,963. E. Errett Smith, Inc., New York, N. Y. Filed May 20, 1952.

Thermo-Glo

For Christmas Cards and Greeting Cards.

Claims use since Apr. 2, 1952.

Ser. No. 632,800. Sears, Roebuck and Co., Chicago, Ill. Filed July 10, 1952.

COLOR BANK

The word "Color" is disclaimed apart from the mark as shown.

For Counter Display Material Consisting of Color Chip Cards and Literature Outlining Paint Materials Required To Create Decorative Paint Color Effects, Used in Promoting the Sale of Paints.

Claims use since on or about June 29, 1951.

Ser. No. 633,678. Meredith Publishing Company, Des Moines, Iowa. Filed Aug. 9, 1952.

Now's the time to...

For Magazine Section.

Claims use since Jan. 8, 1952.

Ser. No. 634,176. United Press Associations, New York, N. Y. Filed Aug. 19, 1952.

Today's Sportrait

For Column Published in Daily Newspapers.

Claims use since June 18, 1951.

Ser. No. 635,170. Broadcasting Publications, Inc., Washington, D. C. Filed Sept. 12, 1952. (Sec. 2f.)

BROADCASTING

Applicant claims ownership of Registrations Nos. 316,401, 402,020, and others.

For Periodicals in the Nature of Trade Magazines Containing Advertising, News, and Comments on Radio Broadcasting, and Sections of Such Periodicals.

Claims use since Oct. 15, 1931.

Ser. No. 636,230. Gernsback Publications, Inc., New York, N. Y. Filed Oct. 6, 1952.

PRESCIENCE

No claim is made to the word "Science" apart from the mark as shown.

For Monthly Fiction Magazine.

Claims use since Oct. 1, 1952.

Ser. No. 636,370. Master Graphic Service, Inc., New York, N. Y. Filed Oct. 8, 1952.

Pre/vu/tising

For Prepared Advertising, Sold as Such.

Claims use since June 16, 1952.

Ser. No. 636,485. Macfadden Publications, Inc., New York, N. Y. Filed Oct. 10, 1952.

Family Life

For Monthly Magazine.

Claims use since Oct. 3, 1952.

Ser. No. 636,568. Kershaw Manufacturing Company, Inc., Montgomery, Ala. Filed Oct. 13, 1952.

Track-Talk

The word "Track" is disclaimed apart from the mark as shown.

For Monthly Periodical Devoted Principally to Articles on the Reconditioning, Construction, Maintenance, and Removal of Railroad Tracks.

Claims use since Sept. 1, 1952.

Ser. No. 637,230. The Louis Allis Company, Milwaukee, Wis. Filed Oct. 27, 1952.

THE LOUIS ALLIS MESSENGER

The name "Louis Allis" is that of the founder, now deceased, of the company which is the owner of the mark.

For Promotional Periodical Directed to Users of Electric Motors and Appurtenances Thereto.

Claims use since July 1, 1933.

CLASS 39

CLOTHING

Ser. No. 583,319. Best & Co. Inc., New York, N. Y. Filed July 13, 1949. (Sec. 2f.)

YOUTH IS OUR SPECIALTY

Applicant claims ownership of Registration No. 392,858.

For Clothing for Men, Women, Misses, and Children—Namely, Coats, Suits, Hats, Gloves of Leather and Textile Fabric, Pajamas, Nightgowns, Sweaters, Socks, Stockings, Scarfs, Handkerchiefs, Bathing Suits, Play Suits, Outershorts, Undershorts, Snow Suits, and Ski Clothes—Namely, Suits, Hoods, Parkas, Hats, Caps, Mittens and Gloves of Wool, Socks of Wool, Scarfs of Wool and Jackets of Wool or Leather or Textile Fabric or Combinations Thereof, Pants and Trousers of Wool and Textile Fabric, Vests, Underpants, Union Suits, Riding Habits, Breeches, Sport Coats, Shoes, Slippers, House Slippers, Riding Boots, Jodhpurs, Ski Boots, Golf Shoes, Beach Shoes and Overshoes of Leather and Textile Fabric; for Women and

Misses—Namely, Dresses, Negligees, Outerskirts, Underskirts, Blouses, Waists, Neckwear—Namely, Collars, Dickies, Gilets, Guimps and Ties, Undervests, Foundation Garments—Namely, Brassières, Girdles, and Corsets; for Men and Boys—Namely, Overcoats, Knickers, Caps, Outer and Dress Shirts, Necktles and Cravats and Undershirts.
Claims use since Sept. 2, 1932.

Ser. No. 602,778. Rose Fashions, Inc., New York, N. Y. Filed Aug. 25, 1950.

Rose Fashions Inc

The word "Fashions" and the abbreviation "Inc." are disclaimed apart from the mark as shown.
For Women's, Misses', and Children's Outer and Inner Apparel and Accessories—Namely, Coats of Fabric and/or Fur, Dresses, Suits, Skirts, Rain-Coats, Rain Jackets, Rain Capes, Rain Kerchiefs, Blouses, Scarfs, Necktles, Pajamas, Sweaters, Robes, Negligees, Housecoats, Uniforms, Jodhpurs, Overalls, Jumpers, Slacks, Shorts, Jackets, Anklets, Hats, Berets and Hoods of Felt, Straw and Cloth, Bathing Suits and Beach Suits, Play Suits, and Sun Dresses.
Claims use since Jan. 1, 1942.

Ser. No. 605,272. Sears, Roebuck and Co., Chicago, Ill. Filed Oct. 21, 1950.

ROEBUCKS

For Overalls.
Claims use since on or about Aug. 16, 1949.

Ser. No. 608,526. American Blouse Co. Inc., New York, N. Y. Filed Jan. 9, 1951.

Alice Aiken

The name "Alice Aiken" is fanciful.
For Girls' Blouses, Combinations of Blouses and Slips, Skirts and Combinations of Petticoats and Dresses.
Claims use since on or about Dec. 15, 1945.

Ser. No. 610,588. Seidenbach's, Tulsa, Okla. Filed Feb. 27, 1951.

Toni Romano

"Toni Romano" is fanciful.
For Ladies' and Misses' Coats, Dresses, and Suits.
Claims use since Feb. 19, 1951.

Ser. No. 612,042. Stetson Clothes, Inc., Baltimore, Md. Filed Mar. 30, 1951.

Henry Heath

The name "Henry Heath" is fanciful.
For Men's Suits.
Claims use since Apr. 16, 1946.

Ser. No. 613,071. John M. Hiss, Los Angeles, Calif. Filed Apr. 24, 1951. (Sec. 2f.)

DR. HISS Hollywood HIKERS

"Dr. Hiss" is the professional designation of the applicant. Applicant claims ownership of Registration No. 392,297.
For Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials.
Claims use since Dec. 21, 1939.

Ser. No. 619,491. Brevitt Shoes Limited, Leicester, England. Filed Sept. 27, 1951.

ROUNDELAY

Applicant claims ownership of British Registration No. 696,136, dated Feb. 19, 1951.
For Boots, Shoes, and Slippers for Men, Women, or Children.
Claims use since Sept. 5, 1951; and since Sept. 5, 1951 in commerce between foreign nations and the United States.

Ser. No. 619,763. Manchester Modes, Inc., Manchester, Conn. Filed Oct. 9, 1951.

Lustrello FLEECE

The use of the word "Fleece" is disclaimed separate and apart from the mark.
For Women's and Men's Suits and Coats.
Claims use since July 3, 1939.

Ser. No. 619,799. Brevitt Shoes Limited, Leicester, England. Filed Oct. 10, 1951.

BREVITT ROUNDER

For Boots, Shoes, and Slippers for Men, Women, or Children.
Claims use since Sept. 5, 1951; and since Sept. 5, 1951 in commerce between foreign nations and the United States.

Ser. No. 621,348. Wilbar's, Inc., Boston, Mass. Filed Nov. 16, 1951.

POODLES

For Ladies' Shoes and Slippers.
Claims use since Nov. 1, 1950.

Ser. No. 621,674. Linda Jo Shoe Co., Inc., Dallas, Tex. Filed Nov. 26, 1951.

TEXMOC

Applicant disclaims the outline of the map of the State of Texas except when used in the composite mark here shown.
For Women's and Children's Shoes and Moccasins.
Claims use since on or about Jan. 1, 1950.

Ser. No. 621,753. Clement & Ball Shoe Mfg. Co., Inc., of Baltimore City, Baltimore, Md. Filed Nov. 28, 1951.

Little GUYS and DOLLS by C&B.

The pictorial representations of children are fanciful.
For Leather Shoes for Infants, Children, Misses, and Boys.
Claims use since Oct. 3, 1951, as to the mark shown; and since on or about June 15, 1921 as to the letters "C & B."

Ser. No. 621,928. Wayne Shoe Company, Boston, Mass. Filed Nov. 30, 1951.

Waynettes

For Leather Shoes for Men, Women, and Misses.
Claims use since Jan. 4, 1949.

Ser. No. 622,293. Big Jack Manufacturing Company, Inc., Bristol, Va. Filed Dec. 10, 1951.

JACK-RIDERS

For Men's and Boys', Ladies' and Children's Dungarees, Pants, Blue Jeans, and Overalls.
Claims use since Jan. 1, 1950.

Ser. No. 624,073. Dave Bellsey Co. Inc., New York, N. Y. Filed Jan. 25, 1952.

Motor-Mates

For Ladies', Misses' Coats.
Claims use since October 1951.

Ser. No. 624,213. The Strouse-Baer Company, Inc., Baltimore, Md. Filed Jan. 28, 1952.

Jiminy Cricket

For Overalls.
Claims use since Dec. 27, 1951.

Ser. No. 624,409. Hat Corporation of America, Norwalk, Conn. Filed Feb. 1, 1952.

WINSOME

For Hats for Women.
Claims use since about Jan. 15, 1952.

Ser. No. 625,326. Anvil Brand, Incorporated, High Point, N. C. Filed Feb. 21, 1952.

Tom Long

"Tom Long" is the name of a living individual, whose consent is of record in this application.
For Men's and Boys' Sports Wear—Namely, Slack Pants, Long Sleeve Sport Shirts, Short Sleeve Sport Shirts, Outer Shorts, Jeans, and Jackets.
Claims use since Jan. 11, 1952.

Ser. No. 625,358. R. H. Macy & Co., Inc., New York, N. Y. Filed Feb. 21, 1952.

Quality Hill

No claim is made to exclusive right to use of the word "Quality."
For Men's Clothing and Furnishings—Namely, Men's Suits, Overcoats, and Topcoats.
Claims use since Dec. 17, 1951.

Ser. No. 626,004. The Selby Shoe Company, Portsmouth, Ohio. Filed Mar. 5, 1952.

date-times

For Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials.
Claims use since Nov. 2, 1951.

Ser. No. 626,262. Peter Pan Foundations, Inc., New York, N. Y. Filed Mar. 11, 1952.

PETER PAN

For Brassières.
Claims use since Feb. 1, 1940.

Ser. No. 626,365. Brevitt Shoes Limited, Leicester, England. Filed Mar. 13, 1952.

BREVITTEENS

Applicant claims ownership of British Registration No. 676,263, dated Jan. 19, 1949.
For Boots, Bootees, Shoes, Sandals, and Slippers for Men, Women, and Children.

Ser. No. 626,797. The Kaynee Company, Cleveland, Ohio. Filed Mar. 21, 1952. (Sec. 2f.)

Wee Men

For Boys' Outer T-Shirts, Dress Shirts, Sport Shirts, Pajamas, Knitted Outer T-Shirts, Trousers, Outer Shorts, Caps, Eton Suits, Washsuits, and Sunsuits.
Claims use since January 1951.

Ser. No. 626,915. Levi Strauss & Company, San Francisco, Calif. Filed Mar. 22, 1952.

DENIM FAMILY

The word "Denim" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 189,350.
For Men's, Women's, and Children's Overalls, Shirts, Jackets, Pants, Slacks, and Coats; Women's and Children's Blouses, Shorts, Skirts, Culottes, Vests, and Pedal Pushers; and Women's Bras; All Made in Whole, or Part, of Denim Material.
Claims use since Mar. 5, 1952.

Ser. No. 627,308. Kenneth Hassler, New York, N. Y. Filed Mar. 20, 1952.

KAPAROO

For Caps.
Claims use since May 16, 1951.

Ser. No. 627,595. New York Knitting Mills, Inc., New York, N. Y. Filed Apr. 4, 1952.

GLIDER

Applicant claims ownership of Registration No. 276,307.
For Knitwear—Namely, Ladies' Sweaters, Skirts, and Dresses; and Men's, Women's, and Children's Sweater Shirts, Jackets, and Sport Shirts.
Claims use since Apr. 16, 1930.

Ser. No. 627,656. Yale Belt Corp., New York, N. Y. Filed Apr. 5, 1952.

CORDOLITE

For Ladies', Men's, and Boys' Belts.
Claims use since July 16, 1951.

Ser. No. 627,670. Harry R. Bretter, Inc., New York, N. Y. Filed Apr. 7, 1952.

Danleigh

For Women's and Misses' Woolen, Cotton, and Rayon Suits.
Claims use since Mar. 1, 1951.

Ser. No. 627,692. Merit Clothing Company, Mayfield, Ky. Filed Apr. 7, 1952. (Sec. 2f.)

SHERRILL

For Men's Suits.
Claims use since on or about Dec. 31, 1935.

Ser. No. 627,778. Standard Insole Company, Inc., Morris Plains, N. J. Filed Apr. 8, 1952.



The drawing is lined for the color green.
For Rubber Insoles.
Claims use since Jan. 15, 1952.

Ser. No. 627,815. R. P. Hazzard Co., Augusta, Maine, and Boston, Mass. Filed Apr. 9, 1952. (Sec. 2f.)

THE HAZZARD SHOE

The words "The" and "Shoe" are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 295,687.
For Men's and Boys' Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Apr. 10, 1910.

Ser. No. 628,273. Irvan Himmelstein, New York, N. Y. Filed Apr. 18, 1952.

Irvan FASHIONS

The word "Fashions" is disclaimed apart from the mark as shown.
For Women's, Juniors', and Misses': Suits and Coats.
Claims use since Jan. 1, 1947.

Ser. No. 629,122. Pincus Bros. Incorporated, Philadelphia, Pa. Filed May 2, 1952.

County Down

For Men's Suits, Sportcoats, Slacks, Topcoats, Vests, and Overcoats, Manufacturers of Wool Shetlands, Wool Tweeds, and Cashmeres.
Claims use since Nov. 23, 1951.

Ser. No. 629,454. National Bellas Hess, Inc., North Kansas City, Mo. Filed May 9, 1952.

National ★ ★ Bonded

Applicant claims ownership of registration No. 278,599.
For Men's Dress, Sport, and Work Shirts; Suits; Undershirts of Knitted, Netted, or Textile Fabric; Coats, Work Clothes—Namely, Trousers, Dungarees, Overalls, Service Suits, Jackets, Coverall-Type Garments, Gloves, Caps, and Aprons; Men's Shoes, Slippers and Loafers of Leather, Fabric, and Combinations Thereof, With Leather or Rubber Soles.
Claims use since Oct. 1, 1928.

Ser. No. 629,716. Belk's Buying Service, Inc., Charlotte, N. C. Filed May 15, 1952.

Belkettes

Applicant claims ownership of Registration No. 530,033.
For Ladies' Shoes.
Claims use since May 4, 1951.

Ser. No. 629,758. Adam Hat Stores, Inc., New York, N. Y. Filed May 16, 1952.

ADAM

Applicant disclaims the representation of the top hats apart from the mark as shown.
For Men's and Boys' Hats and Caps, Dress Shirts, Outer and Under Shirts, Underwear, Sweaters, Sport Shirts, Basque Shirts, Jackets, and Trousers, Neckties, Bow Ties, and Combinations Thereof.
Claims use since Nov. 15, 1951.

Ser. No. 632,628. Charles Mosel, Chicago, Ill. Filed July 16, 1952.

NEKLINER

For Men's Apparel; Outer Shirts, Sport Shirts, Sport Coats, Jackets, Suits, and Neckties; and the Following Women's Apparel; Outer Shirts, Blouses, Suits, and Jackets.
Claims use since July 1952.

Ser. No. 633,231. Vanity Fair Mills, Inc., Reading, Pa. Filed July 29, 1952.

TAFFETTE

For Women's and Children's Apparel—Namely, Vests, Briefs, Panties, Bandeaux, Slips, Nightgowns, Chemises, Petticoats, Pajamas, Negligees, and Bed Jackets.
Claims use since May 13, 1952.

Ser. No. 633,240. John White Footwear Limited, Higham Ferrers, England. Filed July 18, 1952.

John Whites

John White is the name of the chairman and managing director of John White Footwear Limited, and his consent to register said name is of record in the application file. Applicant claims ownership of British Registration No. 602,205, dated Nov. 9, 1938.
For Women's and Girls' Boots, Shoes, and Slippers.

Ser. No. 633,303. Epstein Garment Co., Inc., New York, N. Y. Filed July 31, 1952.

jersilon

For Ladies' Dresses.
Claims use since Apr. 25, 1952.

Ser. No. 633,368. Kid-O-Roy Togs, Brooklyn, N. Y. Filed Aug. 1, 1952.

Kid-O-Roy

For Infants' and Children's Creepers, Overalls, Slacks, Jackets, Pants, and Jodhpurs.
Claims use since Apr. 18, 1949.

Ser. No. 634,745. Manfield and Sons, Limited, Northampton, England. Filed Sept. 2, 1952. (Sec. 2f.)

Manfield

Applicant claims ownership of Registration No. 294,909.
For Boots and Shoes for Men and Women.
Claims use since 1845.

Ser. No. 634,946. MacGregor Sport Products, Inc., Cincinnati, Ohio. Filed Sept. 6, 1952. (Sec. 2f.)

MacGregor

Applicant claims ownership of Registrations Nos. 383,913, 385,253, and others.
For Athletic Apparel—Namely, Uniforms, Shoes Without Attachments Thereon, and Socks Which Are of a Type Made Expressly for and Normally Used Only in the Playing of a Game of Sport or in a Field or Track Event.
Claims use since Mar. 1, 1897.

Ser. No. 635,310. Iselin-Jefferson Company, Inc., New York, N. Y. Filed Sept. 16, 1952.



"SELL AND REPENT"

The picture of the man shown on the drawing is fanciful. Applicant claims ownership of Registration No. 419,735.

For Clothing—Namely, Women's and Misses' Hosiery, Dresses, and Suits; Also Men's and Boys' Hose, Dress Shirts, and Suits.

Claims use since Aug. 1, 1944.

Ser. No. 635,457. A. S. Beck Shoe Corporation, New York, N. Y. Filed Sept. 19, 1952. (Sec. 2f.)



The lining shown on the drawing merely constitutes a reproduction of the lines appearing in the mark on the specimens. The word "Flexible" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 363,386.

For Men's and Women's Shoes and Slippers Made of Leather and/or Fabric, or Mixtures of These Materials.

Claims use since Oct. 29, 1937.

Ser. No. 635,809. Eddie Bauer, Seattle, Wash. Filed Sept. 26, 1952.

Eddie BAUER

Applicant claims ownership of Registration No. 404,315.

For Sportswear—Namely, Hunting and Shooting Jackets and Veats, Fishing Jackets and Vests, Trousers, Jackets, Coats, Parkas, Shirts, Socks, Shawls, and Robes, Quilted and Padded Trousers, Quilted Coats, and Quilted Parkas; Aviation Clothing—Namely, Quilted Aviation Coats, Trousers, Coveralls, Parkas, and Boots of Fabric and Fabric or Leather Combination.

Claims use since on or about July 1, 1935.

Ser. No. 635,914. Friedman-Marks Clothing Co. Inc., Richmond, Va. Filed Sept. 29, 1952.

Trellasheen

For Men's Suits and Coats Made From 100% Wool.

Claims use since July 23, 1952.

Ser. No. 636,505. Adam Hat Stores, Inc., New York, N. Y. Filed Oct. 11, 1952.



Applicant disclaims the representation of the top hats and the descriptive word "Sportswear" apart from the mark as shown.

For Men's and Boys' Hats and Caps, Dress Shirts, Outer and Under Shirts, Underwear, Sweaters, Sport Shirts, Basque Shirts, Casual Shirts, Jackets and Trousers, Neckties, Bow-Ties, and Combinations Thereof.

Claims use since Feb. 20, 1952.

Ser. No. 637,236. Brottman-Gaffin Shoes, Inc., New York, N. Y. Filed Oct. 27, 1952.

Soubrettes

For Women's and Children's Shoes of Leather, Rubber, Fabric, Plastics, and Combinations Thereof.

Claims use since Aug. 28, 1952.

Ser. No. 637,714. The Manhattan Shirt Company, New York, N. Y. Filed Nov. 6, 1952.

DNP

Applicant claims ownership of Registration No. 542,651.

For Men's Outer Shirts.

Claims use since Apr. 10, 1952.

Ser. No. 637,859. Brown Shoe Company, Inc., St. Louis, Mo. Filed Nov. 10, 1952.

Lowlanders

For Women's Shoes.

Claims use since Sept. 2, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 629,523. Scovill Manufacturing Company, Waterbury, Conn. Filed May 10, 1952.

DEFENDER

Applicant claims ownership of Registration No. 85,277.

For Safety Pins and Straight Pins.

Claims use since September 1904.

Ser. No. 629,524. Scovill Manufacturing Company, Waterbury, Conn. Filed May 10, 1952.

TREASURE

Applicant claims ownership of Registration No. 85,275.

For Safety Pins and Hooks and Eyes.

Claims use since September 1895.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 623,117. Miller and Rhoads, Incorporated, Richmond, Va. Filed Dec. 10, 1951. (Sec. 2f.)

THE SHOPPING CENTER

Applicant claims ownership of Registration No. 544,796.

For Walking Canes, Parasols, and Umbrellas.

Claims use since April 1917.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 577,887. Hibben Hollweg & Company, Indianapolis, Ind. Filed Apr. 28, 1949.



The representation of a girl in the drawing is fanciful. Applicant disclaims, apart from the mark as shown, the words "Superior Quality." Applicant claims ownership of Registration No. 148,689.

For Piece Goods—Namely, Muslin.

Claims use since Sept. 1, 1947, as to the mark shown; and since in the year 1898 as to the word "Daisy" and the representation of the girl.

Ser. No. 578,064. Hibben Hollweg & Company, Indianapolis, Ind. Filed Apr. 28, 1949.

DAISY

Applicant claims ownership of Registration No. 148,689.

For Piece Goods—Namely, Muslin.

Claims use since in the year 1898.

Ser. No. 593,350. Hibben Hollweg & Company, Indianapolis, Ind. Filed Mar. 3, 1950.

PRIDE of DIXIE

Applicant claims ownership of Registrations Nos. 86,900 and 155,482.

For Piece Goods—Namely, Muslin.

Claims use since in the year 1906.

Ser. No. 593,351. Hibben Hollweg & Company, Indianapolis, Ind. Filed Mar. 3, 1950.



Applicant claims ownership of Registrations Nos. 86,900 and 155,482.

For Piece Goods—Namely, Muslin.

Claims use since Dec. 12, 1941 as to the mark shown; and since in the month of July 1008 as to the words "Pride of Dixie" and a representation of a girl with a sunbonnet.

Ser. No. 614,004. Michaels & Co. Inc., Brooklyn, N. Y. Filed May 17, 1951. (Sec. 2f.)



The wording "Tested for Quality, Tested for Style, Tested for Value," is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 404,689 and 412,748.

For Textile Carpets; Textile Carpeting; Textile Rugs for Bathrooms; Textile Floor Rugs; Bedsheets; Bedspreads; Comforters; Blankets; Pillow-Cases; Draperies; Table Cloths; Lace Piece Goods; and Upholstery Fabrics of Cotton, Wool, and Synthetic Fibers.

Claims use since Feb. 4, 1944.

Ser. No. 615,230. B. Kuppenheimer and Co. Inc., Chicago, Ill. Filed June 15, 1951.

TROJAN

Applicant claims ownership of Registration No. 241,983.

For Swatches of Woolen Textile Fabrics Circulated to the Trade and Used for Selecting Suit Fabrics.

Claims use since Aug. 1, 1925.

Ser. No. 630,985. Brand & Oppenheimer Incorporated, New York, N. Y. Filed June 10, 1952.

Hapi Prints

The applicant disclaims the word "Prints" apart from the mark as shown in the drawing.

For Textile Fabrics of Cotton, Wool, Synthetic Fibers, and Mixtures Thereof.

Claims use since March 1950.

Ser. No. 635,604. Marshall and Moore, Inc., Dallas, Tex. Filed Sept. 22, 1952.

GOLD AWARD

For Drapery and Upholstery Fabrics of Cotton, Wool, Linen, Silk, Mohair, Jute, and Synthetic Fibers.
Claims use since Aug. 28, 1952.

Ser. No. 639,378. Lone Star Comforters, Inc., Houston, Tex. Filed Dec. 12, 1952.

comFITtour

For Bed Comforters.
Claims use since on or about June 25, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 619,843. Sam S. Miller, doing business as Ohio First Aid and Pharmacal Company, Cleveland, Ohio. Filed Oct. 10, 1951.

OPTICLEAN

For First Aid Eye Safety Kits Comprising a Transparent Plastic Box Containing a Magnetized Particle Remover, Eye Patch, Eye Pads, Adhesive Strips, Eye Droppers, Eyecup, Cotton Balls and Swabs, Eye Drops, Castor Oil, Boric Acid Solution, Boric Acid Ointment, Butyn Sulfate, 2% and Metaphen 1:3000 Eye Ointment and Instruction Book.
Claims use since Jan. 1, 1949.

Ser. No. 628,576. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Surgical Stitching Instruments, Their Parts and Attachments—Namely, Needles, Bobbins, and Bobbin Winders; and Manicuring Scissors.
Claims use since 1942.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 518,984. Seminole Flavor Company, Chattanooga, Tenn. Original filed, act of 1905, Mar. 13, 1947; amended to application under act of 1946, Principal Register, Mar. 29, 1952. (Sec. 2f.)

DOUBLE COLA JR.

Applicant claims ownership of Registrations Nos. 255,971, 286,482, and others.
For Cola Variety of Carbonated Non-Alcoholic, Non-Cereal Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor.
Claims use since Feb. 11, 1946.

Ser. No. 602,776. Rayner & Company Limited, London, England. Filed Aug. 25, 1950.

JADE LADY

Applicant claims ownership of British Registration No. 582,939, dated Jan. 21, 1938.
For Non-Alcoholic Maltless Soft Drinks—Namely, Lime Juice Cordial.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 567,067. The Borden Company, New York, N. Y. Filed Oct. 16, 1948. (Sec. 2f.)

OREGON

Applicant claims ownership of Registration No. 145,506.
For Evaporated Milk.
Claims use since 1913.

Ser. No. 600,938. Aktiebolaget Bofors, Bofors, Sweden. Filed July 20, 1950.

BONOMOLD-O

Priority under Sec. 44(d). Swedish application, filed Feb. 8, 1950, Registration No. 67,951, dated Mar. 24, 1950.
For Chemical Preparations—Namely, Free Acids and Esters of p-Nitrobenzoic Acid and p-Oxybenzoic Acid for Treatment of Fresh and Preserved Foodstuffs, Including Cheese and Vegetables, To Inhibit Growth of Mold.

Ser. No. 602,372. Mrs. Condies Salad Company, Salt Lake City, Utah. Filed Aug. 18, 1950.



For Washed and Prepared Raw Vegetables Packaged as Single Variety or as a Mixture of Varieties.
Claims use since June 15, 1950.

Ser. No. 605,661. Lamont, Corliss & Company, New York, N. Y., now by change of name and merger The Nestlé Company, Inc. Filed Oct. 31, 1950.

NESQuik

No claim is made to the word "Quik" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 185,602, 310,210, and others.
For Powdered Cocoa-Sugar Mixture.
Claims use since Oct. 19, 1948.

Ser. No. 610,237. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Feb. 17, 1951. (Sec. 2f.)

Staley's

Applicant claims ownership of Registrations Nos. 142,777, 293,391, and others.
For Edible Carbohydrates—Namely, Starches, Dextrins, Corn Syrups, Table Syrups and Sugars; Edible Fats and Oils Derived From the Processing of Corn and Soybeans and Blends Thereof; Edible Vegetable Proteins and Edible Derivatives Thereof—Namely, Corn Gluten and Soybean Meal Protein Hydrolyzates and Amino Acids and Mixtures Thereof; Soybean Grits and Flour and Food Compositions in Which One of These Is a Principal Ingredient—Namely, Coagealing Binders and Vitamin Carriers; Soy Sauce and Edible Lecithin.
Claims use since 1912.

Ser. No. 611,432. Knudsen Creamery Co. of California, Los Angeles, Calif. Filed Mar. 16, 1951.



The representation of a girl is fanciful.
For Dairy Products—Namely, Fluid Milk, Fluid Cream, Half Cream and Half Milk, and Chocolate Flavored Drink Consisting Mainly of Milk.
Claims use since July 8, 1939.

Ser. No. 611,997. Big Apple Super Markets, Inc., Atlanta, Ga. Filed Mar. 30, 1951.

BIG APPLE

For Fresh Eggs and Coffee.
Claims use since Aug. 17, 1939.

Ser. No. 617,687. Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Filed Aug. 14, 1951.

FFV America's Most Distinctive Cookies

Without waiver of its common law rights, and for the purposes of this registration only, applicant disclaims the words "America's Most Distinctive Cookies" apart from the mark shown. Applicant claims ownership of Registrations Nos. 220,142, 331,342, and others.
For Cookies.
Claims use since Jan. 1, 1944.

Ser. No. 620,533. United Packers, Inc., Chicago, Ill. Filed Oct. 26, 1951.

BANQUET

For Meats in Tin and Glass—Namely, Vienna Sausage and Potted Meat Food Product Containing Beef Lungs, Beef Lips, Pork Lips, Beef Tripe, Pork Stomachs, Water, Salt, Spices, Vinegar, and Sodium Nitrite.
Claims use since 1932.

Ser. No. 622,052. Chemische Werke Albert, Wiesbaden-Kastel, Amoneburg, Germany. Filed Oct. 24, 1951.

PLASMAL

Applicant claims ownership of German Registration No. 608,455, dated Oct. 1, 1948.
For Conditioning Agent for Enhancing the Binding or Emulsifying Quality of Meat and Fat Products Such as Sausages, Hams, Blood Puddings, Meat Pies, and Other Molded, Canned, Cured, Pickled, or Preserved Meat and Fat Products.

Ser. No. 622,307. Norbest Turkey Growers Association, Salt Lake City, Utah. Filed Dec. 10, 1951.

TUR—KING

For Frozen Boned Turkey.
Claims use since Apr. 16, 1949.

Ser. No. 622,352. Phillips Seafood Packing Company, Bivalve, N. J. Filed Dec. 11, 1951.

Jersey Cape

The words "Jersey Cape" are disclaimed apart from the mark as shown.
For Fresh Canned Seafood—Namely, Shellfish Including Oysters, Clams, and Scallops.
Claims use since Dec. 15, 1949.

Ser. No. 622,885. G. H. Edgar, Pittsburgh, Pa. Filed Dec. 27, 1951.

Snacktime

For Cheese Coated Potato Chips.
Claims use since Apr. 11, 1950.

Ser. No. 623,692. Suffolk Farms Packing Co., Revere and Chelsea, Mass. Filed Jan. 16, 1952.



For Fresh Fruits, Fresh Vegetables, and Seasonings for Foods, Containing Monosodium Glutamate.
Claims use since during February 1944.

Ser. No. 624,263. Central Soya Company, Inc., Fort Wayne, Ind. Filed Jan. 30, 1952.

WAYLAC

For Nutritious Ration Feed for Poultry To Assist in the Control of Coccidiosis and Other Intestinal Disorders.
Claims use since Feb. 1, 1942.

Ser. No. 624,343. M & R Dietetic Laboratories, Inc., doing business as Ten-B-Low Company, Columbus, Ohio. Filed Jan. 31, 1952.

EASE

Dried and Powdered Cows' Milk Cream for General Table and Culinary Uses.
Claims use since Jan. 1, 1952.

Ser. No. 624,944. Harvey Geroux, doing business under the fictitious name and style of Harvey's Products, Los Angeles, Calif. Filed Feb. 14, 1952.

HARVEY'S
OLD OAK SMOKED

No claim is made to the words "Old Oak Smoked" apart from the mark as shown. Applicant claims ownership of Registration No. 292,794.
For Smoke Flavored Seasoning for Meats.
Claims use since Feb. 5, 1952.

Ser. No. 627,001. Milwaukee Cheese Co., Milwaukee, Wis. Filed Mar. 25, 1952. (Sec. 2f.)

MILWAUKEE'S

Applicant claims ownership of Registration No. 226,135.
For Natural Brick Cheese, Processed Cheese, and Pickles.
Claims use since Jan. 15, 1925.

Ser. No. 627,459. Ponce Candy Industries, Ponce, Puerto Rico. Filed Apr. 2, 1952.

GLO-SWEETS

The word "Sweets" is disclaimed apart from the mark as shown.
For Candy.
Claims use since Nov. 22, 1948.

Ser. No. 628,948. Limpert Bros. Inc., New York, N. Y., and Vineland, N. J. Filed Apr. 30, 1952.

EM-12

For Liquid Emulsifier Comprising Blended Glycerol, Ester of Fatty Acids, Hexatol Oleate Derivatives, and Other Ingredients for Use in Ice Cream.
Claims use since Apr. 23, 1952.

Ser. No. 629,945. Holiday Frosted Food Co., Philadelphia, Pa., assignor to Robert S. Wolf, doing business as Holiday Frosted Food Co., Philadelphia, Pa.. Filed May 20, 1952.



The lining appearing on the drawing represents actual lines which are a part of the trade-mark and are not intended to indicate color.
For Frozen Meats—Namely, Beef Steaks, Ground Beef, Beef Liver, Pork Chops, and Veal Cutlets.
Claims use since March 1951 on the mark as shown; and since November 1946 on the word "Holiday."

Ser. No. 638,288. Norman Webb Hutchings, Sr., and Norman Webb Hutchings, Jr., doing business under the names China Doll Company and Hutchings Brokerage Company, Mobile, Ala. Filed Nov. 19, 1952.



The words "China," "Finest," and "Quality" are disclaimed apart from the mark shown. Applicant claims ownership of Registrations Nos. 347,724 and 565,115.
For Rice.
Claims use since Feb. 5, 1937.

Ser. No. 638,301. Green Life Products Company, Kansas City, Mo. Filed Nov. 19, 1952.

greenlife

For Organically Grown Natural Food Processed for Human Consumption in the Nature of a Dried Concentrate of Young Green Cereal Grain Juice in Powder Form.
Claims use since Aug. 28, 1952.

CLASS 47
WINES

Ser. No. 615,671. Wine Growers Guild, Lodi, Calif. Filed June 25, 1951.



No claim is made to the word "Wine" apart from the mark as shown. Applicant claims ownership of Registration No. 414,275.
For Wines.
Claims use since Apr. 11, 1950.

Ser. No. 628,225. Schenley Import Corporation, New York, N. Y. Filed Apr. 17, 1952.



The portrait shown in the drawing is fanciful. The lining and stippling shown on the drawing are for shading.
For Wines.
Claims use since Oct. 5, 1949.

Ser. No. 635,098. RWL Wine & Liquor Company, Incorporated, Baltimore, Md. Filed Sept. 10, 1952. (Sec. 2f.)

LODI

Applicant claims ownership of Registration No. 323,831.
For Wines.
Claims use since Mar. 21, 1934.

CLASS 48
MALT BEVERAGES AND LIQUORS

Ser. No. 635,585. Centlivre Brewing Corporation, Fort Wayne, Ind. Filed Sept. 22, 1952.

IT'S LAZY-AGED



"Aged" is disclaimed apart from the mark as shown.
For Beer.
Claims use since May 1, 1944.

Ser. No. 635,586. Centlivre Brewing Corporation, Fort Wayne, Ind. Filed Sept. 22, 1952.



"Aged" is disclaimed apart from the mark as shown.
For Ale.
Claims use since May 1, 1944.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 605,623. Wiser's Distillery Limited, Montreal, Quebec, Canada. Filed Oct. 30, 1950. (Sec. 2f.)

Wiser's De Luxe

Applicant disclaims the word "De Luxe" separate and apart from the mark as a whole. Applicant claims ownership of Registration No. 311,138.

For Canadian Whiskey.

Claims use since Dec. 20, 1945; and use in common between Canada and the United States since Dec. 20, 1945.

Ser. No. 626,297. Jas. Barclay & Co. Limited, Detroit, Mich., and Peoria, Ill. Filed Mar. 12, 1952. (Sec. 2f as to "Corby.")

SENATOR CORBY

The name "Senator Corby" refers to the Hon. H. Corby, formerly of Corbyville, Ontario, now deceased. Applicant claims ownership of Registrations Nos. 310,436 and 397,118.

For Whiskey.

Claims use since Nov. 30, 1951 on the mark as shown; and since 1884 on the word "Corby's."

Ser. No. 628,512. James Walsh & Company, Inc., Lawrenceburg, Ind. Filed Apr. 22, 1952.

OLD COMRADE

The word "Old" is disclaimed apart from the mark as shown.

For Bourbon Whiskey.

Claims use since Mar. 24, 1952.

Ser. No. 630,757. Chartreuse Corporation, New York, N. Y. Filed June 5, 1952.

C&S

For Liqueur.

Claims use since May 16, 1952.

Ser. No. 638,405. J. A. Dougherty's Sons, Inc. Distillers, also known as J. A. Dougherty's Sons, Incorporated, Philadelphia, Pa. Filed Nov. 21, 1952.

COUNTRY GENTLEMAN

Applicant claims ownership of Registration No. 395,217.

For Whiskey.

Claims use since on or about Apr. 22, 1932.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 607,992. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 22, 1950.



The portrait appearing in the mark is fanciful. No claim is made to the wording "For Home For Country and For God" and the word "Auxiliary" apart from the mark as shown. Applicant claims ownership of Registration No. 528,273.

For Pennants, Banners, and Prize Ribbons; Also for Various Articles Made of Non-Precious Metal, Viz: Ornamental Figurines, Wall Plaques Formed With Figures in Relief, Electrotype Printing Plates and Mats Used in Printing, Metal and Fabric Membership and Identification Badges, Metal Pocket Pieces in the Nature of Medallions and Identification Tags for Use on Key Rings and Key Chains.

Claims use since Oct. 24, 1947.

Ser. No. 607,995. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 22, 1950.



No claim is made to the words "Liberty," "Truth," "Justice" and "Equality" apart from the mark as shown. Applicant claims ownership of Registration No. 528,273.

For Pennants, Banners, and Prize Ribbons; Also for Various Articles Made of Non-Precious Metal, Viz: Ornamental Figurines, Wall Plaques Formed With Figures in Relief, Electrotype Printing Plates and Mats Used in Printing, Metal and Fabric Membership and Identification Badges, Metal Pocket Pieces in the Nature of Medallions and Identification Tags for Use on Key Rings and Key Chains.

Claims use since Oct. 24, 1947.

Ser. No. 607,999. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 22, 1950.



Applicant claims ownership of Registration No. 528,273.

For Pennants, Banners, and Prize Ribbons; Also for Various Articles Made of Non-Precious Metal, Viz: Ornamental Figurines, Wall Plaques Formed With Figures in Relief, Electrotype Printing Plates and Mats Used in Printing, Metal and Fabric Membership and Identification Badges, Metal Pocket Pieces in the Nature of Medallions and Identification Tags for Use on Key Rings and Key Chains.

Claims use since Oct. 24, 1947.

Ser. No. 626,389. The Landers Corporation, Toledo, Ohio. Filed Mar. 13, 1952.

RESILAN

For Flexible Plastic Sheeting or Film (in the General Nature of an Equivalent or a Substitute for Leather but Having a Variety of Colors and Designs) for Use as Furniture Upholstery, Seat Covers, Interior Auto Trim, and for Other Industrial Uses.

Claims use since March 1950.

Ser. No. 635,609. Nationwide Leather Products Corp., Los Angeles, Calif. Filed Sept. 22, 1952.

MAJOR SEAL

The word "Seal" is disclaimed apart from the mark as shown.

For Bottle Caps.

Claims use since Mar. 17, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 574,147. Jean Jordean, Inc., South Orange, N. J. Filed Feb. 19, 1949.

I R
(pronounced eye-are)
The end of hair

Applicant disclaims sole use of the words "(pronounced eye-are) The end of hair" apart from the mark as shown.

For Superfluous Hair Remover.

Claims use since Feb. 4, 1949.

Ser. No. 598,792. Hammond Research Corporation, Joing business as Hammond Laboratory, Gloucester, Mass. Filed June 8, 1950.

HL

For Shaving Cream.

Claims use since Nov. 29, 1949.

Ser. No. 608,122. Polychrome Corporation, Yonkers, N. Y. Filed Dec. 27, 1950.

PC

Applicant hereby disclaims the representation of the container apart from the mark as shown.

For Hand Cream Used To Remove Stains Resulting From the Handling of Duplicating Materials.

Claims use since February 1936.

Ser. No. 618,759. Poloris Company, Inc., Jersey City, N. J. Filed Sept. 13, 1951.

Penillin

For Tooth Powder.

Claims use since Sept. 7, 1951.

Ser. No. 625,092. Jules E. Bernfeld, trading as Jules, Alexandria and Arlington, Va. Filed Feb. 18, 1952.

Juliet

For Permanent Wave Solution.

Claims use since Jan. 28, 1952.

Ser. No. 625,320. J. G. Mouson & Co., Frankfurt am Main, Germany. Filed Dec. 15, 1951.



Mit der Postkutsche

The German words "Mit der Postkutsche" are translated "With the Post Coach."

For Lavender Water, Brilliantine, Talcum Powder, and Presentation Caskets Containing Combinations of the Same.

Claims use since June 1935; and first used in commerce between foreign nations and the United States in June 1935.

Ser. No. 632,164. Juliette Marglen, Inc., Los Angeles, Calif. Filed July 5, 1952.



For Preparations for Repairing, Preserving, and Beautifying Finger Nails and Toe Nails—Namely, Nail Polish; Liquid Nail Polish Remover; Liquid Top and Base Nail Coating and Sealing Materials; Clear and Colored Enamel Polishes; Liquid Adhesives for Mending and Repairing Broken Nails; Liquid Thinners and Removers for Same; and Liquid Cuticle Removers.
Claims use since 1936.

Ser. No. 633,905. Ruth Adams, Minneapolis, Minn. Filed Aug. 14, 1952.

ADAFOAM

For Skin Cream Cleanser.
Claims use since on or about Oct. 21, 1951.

Ser. No. 637,923. Hygiene Research, Inc., New York, N. Y. Filed Nov. 12, 1952.

CLEREX

For Protective Jel for Application and Rubbing Into the Skin.
Claims use since Sept. 26, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 604,221. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950.

Pure-sure

For Automobile Shampoo, Automobile Cooling System Cleaner.
Claims use since on or about July 27, 1944.

Ser. No. 617,222. Thomas J. Yacenda, trading as Deep Rock Refining Co., Richmond, Va. Filed Aug. 1, 1951.

ROX

For Bleaching, Cleansing, Antiseptic, and Germicidal Compound.
Claims use since July 2, 1951.

Ser. No., 620,485. American Mineral Spirits Company, Chicago, Ill. Filed Oct. 26, 1951.

MINTROL

For Solvent Naphtha for Dry Cleaning, Paint Solvent, and Metal Cleaning.
Claims use since Oct. 13, 1949.

Ser. No. 623,522. Von Schrader Manufacturing Company, Racine, Wis. Filed Jan. 12, 1952.

DETERGENE

Applicant claims ownership of Registrations Nos. 347,539, 392,109, and 399,488.
For Dry Cleaning Powder for Rugs.
Claims use since February 1941.

Ser. No. 628,365. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Petroleum Derivative for Use in Cleaning Metallic Machine Elements.
Claims use since 1946.

Ser. No. 636,706. Hart & Harrington, Inc., Chicago, Ill. Filed Oct. 16, 1952.

Hartool

For Foaming Oil Shampoo.
Claims use since Feb. 28, 1952.

Ser. No. 636,707. Hart & Harrington, Inc., Chicago, Ill. Filed Oct. 16, 1952.

Hartool

For Foaming Oil Shampoo.
Claims use since Feb. 28, 1952.

Ser. No. 636,958. Allied Home Products Corporation, Beloit, Wis. Filed Oct. 22, 1952.

WHIFF

For Liquid Cleansing Composition for Porcelain Toilet Bowls, Urinals, and the like.
Claims use since Aug. 22, 1952.

Ser. No. 638,570. Conrad F. Clothier, doing business under the trade name and style of C. F. Clothier & Co., Philadelphia, Pa. Filed Nov. 25, 1952.

Jig-Time

Applicant claims ownership of Registration No. 357,346.
For Preparation for Cleaning Combs, Hair Brushes, and Jewelry.
Claims use since Mar. 6, 1951.

Ser. No. 639,730. American Mineral Spirits Company, Chicago, Ill. Filed Dec. 19, 1952.

MINTREX

For Solvent Naphtha for Dry Cleaning Purposes.
Claims use since on or about Oct. 29, 1952.

Ser. No. 639,834. Purex Corporation, Ltd., South Gate, Calif. Filed Dec. 20, 1952.

PUREX

Applicant claims ownership of Registrations Nos. 211,650, 312,493, and others.
For General Cleaning Preparations in Liquid and Dry Forms Having Bleaching, Cleaning and Disinfecting Properties.
Claims use since Oct. 10, 1923.

Ser. No. 639,941. LeBlanc Brothers, Lafayette, La. Filed Dec. 23, 1952.

NY-RITE

For Chemical Composition for Washing and Strengthening Nylon.
Claims use since Nov. 10, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 588,570. Food Machinery & Chemical Corporation, San Jose, Calif. Filed Nov. 30, 1949.

Hypo-Clor

Applicant claims ownership of Registration No. 396,930.
For Leasing Machines and Equipment To Be Used in Treating Fruit and Vegetables to Inhibit Decay Therein During Shipment; and Testing the Reaction of the Product to the Decay Inhibiting Treatment to Determine Its Effect and Making Recommendations Relative to the better Use Thereof.
Claims use since Nov. 3, 1941.

Ser. No. 396,834. The Chi Phi Fraternity, Atlanta, Ga. Filed May 4, 1950. COLLECTIVE MARK.



For Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity.
Claims use since 1910.

Ser. No. 604,218. Peter Pan Ice Cream & Sandwich Shop, Inc., Chicago, Ill., assignor by mesne assignments to Peter Pan Restaurants, Inc., a corporation of Delaware. Filed Sept. 29, 1950.

Peter Pan

For Restaurant Service.
Claims use since October 1947.

Ser. No. 610,665. Anderson-Nichols & Company, Boston, Mass. Filed Mar. 1, 1951.



No exclusive claim is made to the words "Engineering Management" except in the combination shown.
For Consulting Engineering and Architectural Services; Developing and Designing New Equipment and Machinery; and Designing Factory Buildings.
Claims use since Jan 1, 1932.

Ser. No. 618,107. Bigelow-Liptak Corporation, Detroit, Mich. Filed Aug. 27, 1951.



For Engineering Services in the Design of Industrial Furnaces and Parts and Accessories Thereof.
Claims use since about Jan. 1, 1930.

Ser. No. 637,100. El Chico Cafe, Dallas, Tex. Filed Oct. 27, 1952.



The picture shown on the drawing is fanciful and is not a portrait of any known living individual. The drawing is lined for the colors red and green but color is not claimed as an essential feature of the mark.

For Restaurant Services.

Claims use since October 1940.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 629,650. Central Mutual Insurance Company, Van Wert, Ohio. Filed May 14, 1952.



"Dividends To Property Owners Since 1876," the words appearing in the shield in the mark, are disclaimed.

For Underwriting of Fire and Other Kinds of Property Insurance.

Claims use since Feb. 5, 1944.

Ser. No. 637,856. American Cancer Society, Inc., New York, N. Y. Filed Nov. 10, 1952.



For Providing and Distributing Funds as Grants to Institutions To Support Research Programs and to Individuals as Fellowships to Finance Their Training in the Study of Cancer.

Claims use since 1935.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 618,410. Telex, Inc., St. Paul, Minn. Filed Sept. 5, 1951.



Applicant claims ownership of Registrations Nos. 373,770, 429,310, and others.

For Maintaining and Repair of Electronic Devices—Namely, Hearing Aid Equipment.

Claims use since Sept. 5, 1949.

Ser. No. 631,181. Ted W. Ruegsegger, doing business as Tedrick Company, Chicago, Ill. Filed June 13, 1952.

TEDRICIZE

For Resurfacing of Structures by Application of Mineral Substances Thereto To Render Same Water-Proof, Fire Retardant, Sound-Proof, and Weather-Proof, Such Buildings Including Homes, Industrial Buildings, and Commercial Buildings.

Claims use since Feb. 25, 1952.

Ser. No. 631,268. Chemtox Company, Ltd., Honolulu, Territory of Hawaii. Filed June 17, 1952.

FUMISEAL

For Chemical Extermination and Eradication of Termites in Homes and Buildings.

Claims use since Apr. 1, 1952.

Ser. No. 633,027. Air Carrier Engine Service, Inc., Miami, Fla. Filed July 23, 1952.



For Repairing, Servicing, and Maintaining Aircraft Engines and Component Parts of Aircraft and Aircraft Engines.

Claims use since December 1946.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 619,628. Koninklijke Luchtvaart Maatschappij N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y. Filed Oct. 5, 1951.

Cosmopolitan

For Air Transport Service for the Carriage of Passengers, Goods, and Mail.

Claims use since on or about Apr. 4, 1951.

CLASS 106

MATERIAL TREATMENT

Ser. No. 607,711. Mathews Conveyer Company, Ellwood City, Pa. Filed Dec. 15, 1950. (Sec. 2f.)

MATHEWS CONVEYER SYSTEMS

No claim is made to the words "Conveyer Systems" apart from the mark as shown.

For Fabrication of Material Handling Conveyers and Material Handling Equipment on a Custom Basis.

Claims use since 1924.

Ser. No. 613,902. The Chapman Valve Manufacturing Company, Springfield, Mass. Filed May 16, 1951.

MALCOMIZING

Applicant claims ownership of Registration No. 438,360.

For Surface Hardening Steel Production Parts of Others.

Claims use since January 1941.

Ser. No. 625,021. Ohio Tool & Manufacturing Company, Toledo, Ohio. Filed Feb. 15, 1952.



The words "Toledo," "Ohio," and "Tool" are hereby disclaimed apart from their use with the mark.

For Threading, Drilling, Punching, Forming, Grinding, and Milling; Hardening and Annealing by Heat Treatment; and Nickel, Chrome, Copper, Cadmium, and Zinc Plating of Steel Forgings, Castings, Die Castings, Stampings, and of Plastics.

Claims use since April 1951.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 606,816. Bernard Stolzman, also known as Bernie Mann, Flushing, N. Y. Filed Nov. 22, 1950. (Sec. 2f.)

ALL AMERICAN BAND

The word "Band" is disclaimed apart from the mark as shown.

For Musical Entertainment by a Dance Orchestra.

Claims use since 1943.

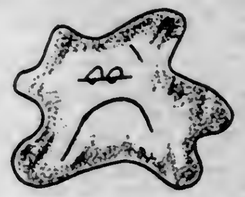
Ser. No. 623,154. The Professional Golfers' Association of America, Chicago, Ill. Filed Jan. 3, 1952. COLLECTIVE MARK.

PGA

For Instructing in the Game of Golf and for an Entertainment Service in the Nature of Golfing Exhibitions.

Claims use since 1916.

Ser. No. 628,394. Elwood Chapman, Ontario, Calif. Filed Apr. 21, 1952.



For Educational Service in the Nature of Lectures Relating to the Subject of Human Relations.

Claims use since November 1950.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,772. Women's Hats and Hat Bodies. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Filed July 2, 1947, Serial No. 525,642. Published Feb. 3, 1953. Class 39.

ACT OF 1946, PRINCIPAL REGISTER

574,472. Sauce Made From Fruits, for Use on Fish, Game, Soups, Steaks, and Like Foods. Hoe & Co. (1931) Limited, Stretford, Manchester, Lancashire, England. Original filed, act of 1905, Aug. 5, 1946; amended to application under act of 1946, Principal Register, Jan. 15, 1951, Serial No. 506,873. Published Feb. 10, 1953. Class 46.

574,473. Key Rings and Key Chains. Forstner Chain Corporation, Irvington, N. J. Original filed, act of 1905, June 4, 1947; amended to application under act of 1946, Principal Register, Apr. 14, 1949, Serial No. 523,519. Published Feb. 17, 1953. Class 13.

574,474. Canned Asparagus, Green Beans, Wax Beans, Corn, Peas, Spinach, Tomatoes, Tomato Soup, Spaghetti, Molasses, and Peanut Butter. Joannes Brothers Company, doing business as Northwest Warehousing Co., Green Bay, Wis. Filed Aug. 26, 1947, Serial No. 532,459. Published Mar. 27, 1951. Class 46.

574,475. Dried Fruits. Rosenberg Bros. & Co., San Francisco, Calif., assignor to Rosenberg Bros. & Co., Inc., Baltimore, Md., a corporation of Maryland. Filed Sept. 30, 1947, Serial No. 536,294. Published Feb. 10, 1953. Class 46.

574,476. Imitation Peach Jam. Bliss Syrup & Preserving Co., Kansas City, Mo. Filed Dec. 26, 1947, Serial No. 545,430. Published Feb. 10, 1953. Class 46.

574,477. Pâté de Foie Gras, Canned Truffles, Minced Canned Goose, and Pâté de Canard (Duck Paste). Henri Lacroix, Gimont, France. Filed Mar. 27, 1948, Serial No. 553,201. Published Feb. 10, 1953. Class 46.

574,478. Canned Fruits, Canned Vegetables, and Canned Olives. Hemet Packing Company, Hemet, Calif. Filed Apr. 19, 1948, Serial No. 554,978. Published Feb. 10, 1953. Class 46.

574,479. Bread. Bakers Associates Incorporated, Chicago, Ill. Filed June 3, 1948, Serial No. 558,341. Published Feb. 24, 1953. Class 46.

574,480. Fur Coats, Capes, Scarfs and Neck Pieces, Cloth Coats and Capes, and Fur Trimmed Cloth Coats and Capes for Women. Indiana Fur Co. Inc., Indianapolis, Ind. Filed July 2, 1948, Serial No. 560,624. Published Feb. 10, 1953. Class 39.

574,481. Canned Foods—Namely, Fruits, Vegetables, Etc. Clover Farm Stores Corporation, Cleveland, Ohio. Filed Aug. 4, 1948, Serial No. 562,766. Published Feb. 17, 1953. Class 46.

574,482. Interior and Exterior Paints for All Types of Surfaces, Etc. Patek Brothers, Inc., Milwaukee, Wis. Filed Aug. 23, 1948, Serial No. 563,869. Published Feb. 24, 1953. Class 16.

574,483. Hats for Women and Misses. The Haverfield Company, Columbus, Ohio. Filed Oct. 28, 1948, Serial No. 567,781. Published Feb. 3, 1953. Class 39.

574,484. Fabric Cleaner, Cleaner for Removing Dirt and Other Foreign Matter From Painted Surfaces of Automotive Vehicles, Metal Cleaner, Side Wall Tire Cleaner, Upholstery Spot Remover, and Tar Remover. Packard Motor Car Company, Detroit, Mich. Filed Dec. 7, 1948, Serial No. 570,118. Published Feb. 24, 1953. Class 52.

574,485. Red Cedar Picket Fence. Arnold-Dain Corporation, Lake Mahopac, N. Y. Filed Mar. 14, 1949, Serial No. 575,391. Published Mar. 3, 1953. Class 12.

574,486. Filter for Water in the Form of a Replaceable Cartridge for Water Purification Devices. Tested Appliance Company, Chicago, Ill. Filed Apr. 19, 1949, Serial No. 577,409. Published Feb. 24, 1953. Class 31.

574,487. Canned Citrus Fruit Juice. Paramount Canning Company, Haines City, Fla. Filed Apr. 29, 1949, Serial No. 577,977. Published Feb. 10, 1953. Class 46.

574,488. Agricultural and Horticultural Spraying and Dusting Machines. Food Machinery and Chemical Corporation, San Jose, Calif. Filed May 16, 1949, Serial No. 578,925. Published Jan. 20, 1953. Class 23.

574,489. Screw Threads and Threaded Members, Such as Joints for Drill Pipe Carrying Drilling Bits and Core-Taking Equipment, Subs, Reducing Substitutes, Drill Collars, and Similar Threaded Coupling Elements on Equipment Used in Deep Well Drilling. Reed Roller Bit Company, Houston, Tex. Filed May 21, 1949, Serial No. 579,294. Published Feb. 17, 1953. Class 23.

574,490. Apparatus Comprising Strain Gauges and an Electronic Amplifier for Attachment to a Machine Tool for Indicating and Measuring the Movement of the Ends of a Swivel Table. Brown & Sharpe Manufacturing Company, Providence, R. I. Filed July 15, 1949, Serial No. 582,020. Published Jan. 13, 1953. Class 26.

574,491. Swimming Pools and Bathing Pools of Permanent Concrete Construction. Paddock Engineering Co., of Texas, Dallas, Tex. Filed Aug. 6, 1949, Serial No. 583,112. Published Mar. 3, 1953. Class 12.

574,492. Soap Shampoos in Cake Form, Baby Skin Soaps, Soaps in Cake or Bar Form for Hair and Hands, Hand Soaps, Hand Cleaners in the Nature of a Soap or Similar Type of Detergent, Face Cleaners in the Nature of a Soap or Similar Type of Detergent. John H. Breck, Inc., Springfield, Mass. Filed Aug. 30, 1949, Serial No. 584,217. Published Feb. 24, 1953. Class 52.

574,493. Hair Creams, Hair Dressings and Hair Oils. John H. Breck, Inc., Springfield, Mass. Filed Sept. 17, 1949, Serial No. 584,965. Published Feb. 24, 1953. Class 51.

574,494. Metal Lath Hanger. Florence L. Danielson, doing business as "Tie-To" Insert Co., Milwaukee, Wis. Filed Sept. 23, 1949, Serial No. 585,980. Published Mar. 3, 1953. Class 12.

574,495. Fresh Citrus Fruits. Exeter Orchards Association, Exeter, Calif. Filed Oct. 31, 1949, Serial No. 587,077. Published Feb. 17, 1953. Class 46.

574,496. Man's Supporting Undergarment Used for Therapeutic Purposes; Specifically a Support Consisting of a Wide, Elastic Supporting Belt, Etc. Sentinel Knitting Corporation, New York, N. Y. Filed Nov. 7, 1949, Serial No. 587,448. Published Feb. 10, 1953. Class 44.

574,497. Fur Coats, Fur Jackets, Fur Capes, and Fur Neck Pieces and Scarfs. Benioffs Furs, Allentown, Pa. Filed Nov. 29, 1949, Serial No. 588,476. CONCURRENT USE. Published Feb. 10, 1953. Class 39.

574,498. Detecting, Measuring, Indicating and Recording Apparatus—Namely, Ammeters, Etc. Metropolitan-Vickers Electrical Company Limited, London, England. Filed Feb. 1, 1950, Serial No. 591,788. Published Jan. 6, 1953. Class 26.

574,499. Detecting, Measuring, Indicating and Recording Apparatus—Namely, Ammeters, Etc. Metropolitan-Vickers Electrical Company Limited, London, England. Filed Feb. 1, 1950, Serial No. 591,793. Published Jan. 6, 1953. Class 26.

574,500. Automatic Ice Machine for Making Sized Ice. American Automatic Ice Machine Co., Minneapolis, Minn. Filed Feb. 10, 1950, Serial No. 592,242. Published July 15, 1952. Class 31.

574,501. Photographic, Photoengraving, and Photomechanical Appliances, Etc. Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Filed Feb. 16, 1950, Serial No. 592,548. Published Jan. 6, 1953. Class 26.

574,502. Air Filters for Use With Heating, Ventilating, and Air Conditioning Equipment. Reece M. Carey, doing business as Carey Electronic Engineering Company, Springfield, Ohio. Filed Feb. 28, 1950, Serial No. 593,161. Published Feb. 24, 1953. Class 31.

574,503. Chicken Feeds and Livestock Feeds a Blend of Vegetable and Animal Proteins, Etc. Joe Schafer and Sons, Springfield, Ill. Filed Mar. 4, 1950, Serial No. 593,447. Published Feb. 10, 1953. Class 46.

574,504. Power Operated Typewriting Means Featuring an Attachment or Part Which Punches Into Code Tape Indications for Margin Justifications, Etc. Commercial Controls Corporation, Rochester, N. Y. Filed Mar. 7, 1950, Serial No. 593,529. Published Feb. 17, 1953. Class 23.

574,505. Pneumatically Actuated Clamps, Pneumatic Power Cylinders, Pneumatic Work Feeders, Etc. Mead Specialties Company, Inc., Chicago, Ill. Filed Mar. 16, 1950, Serial No. 594,056. Published Feb. 17, 1953. Class 23.

574,506. Men's and Boys' Dress, Sport and Work Clothing and Parts Thereof—Namely, Outer Dress Shirts, Outer Sport Shirts, Jackets and Coats, Outer Work Shirts, Hosiery, Collars, and Neckties. Phillips-Jones Corporation, New York, N. Y. Filed Mar. 16, 1950, Serial No. 594,063. Published Feb. 3, 1953. Class 39.

574,507. Trade Publications Relating to the Field of Photography Issued From Time to Time. American Colortype Company, Chicago, Ill. Filed Mar. 24, 1950, Serial No. 594,514. Published Feb. 24, 1953. Class 38.

574,508. High Speed Cutter Bits, Blades, and Cutters for Lathes, Shapers, Planers, Slotters, and Like Tools. Armstrong Bros. Tool Co., Chicago, Ill. Filed Apr. 7, 1950, Serial No. 595,351. Published Jan. 13, 1953. Class 23.

574,509. Specially Prepared Cereal Foods—Namely, Barley Cereal, Oatmeal, and Specially Prepared Cereal Mixture Containing Semolina, Whole Wheat Flour, Corn Meal, Wheat Germ, Etc. Gerber Products Company, Fremont, Mich. Filed Apr. 21, 1950, Serial No. 596,090. Published Feb. 3, 1953. Class 46.

574,510. Chemical Impregnated Tacky Cloth Wipers for Removing Dust, Lint, and Sand Particles. Bond Chemical Products Co., Chicago, Ill., by change of name from Baughn Chemical Products Co. Filed May 18, 1950, Serial No. 597,650. Published Sept. 2, 1952. Class 29.

574,511. Toy Electric Trains. The Lionel Corporation, New York, N. Y. Filed June 24, 1950, Serial No. 599,710. Published Mar. 3, 1953. Class 22.

574,512. Material in the Form of a Cream or Paste for Use as Cleansers and Polishes and Particularly as a Hand Cleanser. Mordecai N. Mayehoff, doing business as La Peer Products Co., Los Angeles, Calif. Filed July 22, 1950, Serial No. 601,111. Published Feb. 24, 1953. Class 51.

574,513. Fresh Vegetables. L. S. Williams, Centerville, Calif. Filed July 24, 1950, Serial No. 601,180. Published Feb. 10, 1953. Class 46.

574,514. Books. Pocket Books, Inc., New York, N. Y. Filed Aug. 4, 1950, Serial No. 601,748. Published Feb. 17, 1953. Class 38.

574,515. Women's, Misses', and Girls' Hats, Scarves, Gloves of Leather, Etc. Frances & Walter Nelkin, Inc., New York, N. Y. Filed Aug. 7, 1950, Serial No. 601,834. Published Feb. 3, 1953. Class 39.

574,516. Grinding Mills—Namely, Ball and Rod Mills. The Mine and Smelter Supply Company, Denver, Colo. Filed Aug. 15, 1950, Serial No. 602,207. Published Jan. 20, 1953. Class 23.

574,517. Men's Suits, Outer Shirts, Ties, Socks, Shoes, Handkerchiefs, Underwear, Pajamas. Rich's Inc., Atlanta, Ga. Filed Aug. 15, 1950, Serial No. 602,218. Published Feb. 3, 1953. Class 39.

574,518. Threads of Wool, Hair, Cotton, Silk, Hemp, Flax, and Jute. Societe Rhovyl, Paris, France. Priority under Sec. 44(d). French Registration No. 403,760, filed June 14, 1950. Filed Aug. 22, 1950, Serial No. 602,794. Published Jan. 27, 1953. Class 43.

574,519. Netting for Use in the Fishing Industry. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Filed Aug. 31, 1950, Serial No. 603,715. Published Mar. 3, 1953. Class 42.

574,520. Foods—Namely, Fresh and Processed Meats, Vegetables, and Fruits, and Prepared Meals Consisting of These Component Parts, Etc. Raymond B. Hawse, West Palm Beach, Fla. Filed Sept. 20, 1950, Serial No. 603,787. Published Feb. 10, 1953. Class 46.

574,521. Fluid Pressure Operated Machine for Removing Carbon From the Interior of the Head and Adjacent Wall Surface of an Internal Combustion Engine Cylinder. Kent-Moore Organization, Inc., Detroit, Mich. Filed Sept. 28, 1950, Serial No. 604,155. Published Feb. 17, 1953. Class 23.

574,522. Bread. Purity Bakeries Corporation, Chicago, Ill.
Filed Oct. 7, 1950, Serial No. 604,596. Published Feb. 10, 1953. Class 46.

574,523. Netting for Use in the Fishing Industry. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada.
Filed Oct. 16, 1950, Serial No. 604,958. Published Mar. 3, 1953. Class 42.

574,524. Refrigerating Machines, Air-Coolers for Refrigeration Equipment, Ice Making and Ice-Briquetting Machines and Parts Thereof, Sand Coolers, Artificial Ice Skating Rinks, Brine Coolers, Pressure Vessels for Refrigerating Systems, Refrigerant Condensers, and Gaseous Refrigerant Compressors. The Vilter Manufacturing Company, Milwaukee, Wis.
Filed Oct. 18, 1950, Serial No. 605,126. Published Feb. 24, 1953. Class 31.

574,525. Egg Mash. Hilltop Farm Feed Co., Minneapolis, Minn.
Filed Nov. 1, 1950, Serial No. 605,743. CONCURRENT USE. Published Feb. 24, 1953. Class 46.

574,526. Commercial Barley Malt Consisting of Malted Barley Kernels in Whole, Solid State for Use in Processing Food. The Columbia Malting Company, Chicago, Ill.
Filed Nov. 7, 1950, Serial No. 605,995. Published Mar. 3, 1953. Class 46.

574,527. Stockings, Gloves, Slips, Brassières, Garter Bands, Nightgowns, Pajamas, Negligees, and Ladies' Underwear Made of Knitted, Netted, and Textile Fabrics of Cotton, Wool, Silk, and Artificial Silk or Combinations Thereof. Maximo Lindemann, Buenos Aires, Argentina.
Filed Nov. 9, 1950, Serial No. 606,154. Published Feb. 24, 1953. Class 39.

574,528. Preparation for Cleaning the Hands Consisting of a Mixture of Corn Meal, Farina, a Wetting Agent, Etc. The Theobald Industries, Kearny, N. J.
Filed Nov. 22, 1950, Serial No. 606,825. Published Feb. 24, 1953. Class 4.

574,529. Fluid Pressure Control Instrument for Supplying and Indicating Selected Control Pressures, Etc. Bailey Meter Company, Cleveland, Ohio.
Filed Nov. 14, 1950, Serial No. 607,206. Published Jan. 6, 1953. Class 26.

574,530. Trowels Used by Brick Layers. Hana Zelluka, doing business under the firm and style of Vindobona Importing Co., New York, N. Y.
Filed Dec. 20, 1950, Serial No. 607,908. Published Jan. 13, 1953. Class 23.

574,531. Core Pastes and Core Binders for Adhesively Uniting Sections of Cores Used in Metal-Casting. Whitehead Brothers Company, New York, N. Y.
Filed Jan. 4, 1951, Serial No. 608,392. Published Feb. 24, 1953. Class 5.

574,532. Liquid Material, Including Wax and Providing a Coating or Film Particularly for Protective and Preservative Purposes, and for Polishing, for Use on Automobiles and Other Painted and Lacquered Surfaces. The Simonix Company, Chicago, Ill., now by change of name Simoniz Company.
Filed Jan. 18, 1951, Serial No. 608,957. Published Apr. 29, 1952. Class 4.

574,533. Printing Paper. Tileston and Hollingsworth Company, Boston, Mass.
Filed Feb. 1, 1951, Serial No. 609,513. Published Sept. 25, 1951. Class 37.

574,534. Soap, Grease for Soap-Making, and a Basic Material—Namely, Tallow, Used in Soap-Making. Consolidated Rendering Company, also doing business as Atlantic Packing Company, Boston, Mass.
Filed Feb. 13, 1951, Serial No. 610,005. Published Feb. 24, 1953. Class 52.

574,535. Housewares Made of Metal—Namely, Dust Pans, Rolled Paper Holders and Dispensers, Facial Tissue Holders and Dispensers Adapted to be Affixed to a Supporting Surface, and Match Holders and Dispensers Mountable on a Supporting Surface. Harper J. Ransburg Co., Inc., Indianapolis, Ind.
Filed Feb. 23, 1951, Serial No. 610,463. Published Mar. 3, 1953. Class 13.

574,536. Engine-Compressor Units for Refrigeration Systems, Etc. Waukesha Motor Company, Waukesha, Wis.
Filed Mar. 6, 1951, Serial No. 610,934. Published Feb. 3, 1953. Class 31.

574,537. Sail Boats, Ice Boats, Cruisers, Dinghies, Fishing Boats, Etc. F. J. Photiadis, trading and doing business under the name of Amphitrite Marine Company, Tokyo, Japan.
Filed Mar. 13, 1951, Serial No. 611,331. Published Feb. 24, 1953. Class 19.

574,538. Wearing Apparel, Specifically Women's, Misses' and Children's Dresses, Coats, Etc. Best & Co. Inc., New York, N. Y.
Filed Mar. 19, 1951, Serial No. 611,500. Published Feb. 24, 1953. Class 39.

574,539. Metal Polish. The Cleanola Company, Pittsburgh, Pa.
Filed Mar. 22, 1951, Serial No. 611,640. Published Mar. 3, 1953. Class 4.

574,540. Machines for Manufacturing Concrete Roofing Tile. The W. E. Dunn Manufacturing Company, Holland, Mich.
Filed Apr. 13, 1951, Serial No. 612,597. Published Jan. 13, 1953. Class 23.

574,541. Canned Corned Beef, Canned Corned Tongue, Canned Corned Pork, Canned Corned Mutton, Canned Hamburgers, Canned Beef and Gravy. Corporacion Argentina de Productores de Carnes, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 612,641. Published Feb. 24, 1953. Class 46.

574,542. Sheets, Pillowcases, Textile Rugs, Blankets, and Shawls for Furniture Drapery. William Hollins & Company Limited, Nottingham, England.
Filed Apr. 20, 1951, Serial No. 612,913. Published Feb. 24, 1953. Class 42.

574,543. Unexposed Motion Picture Film. Fischer Film Laboratories, Chicago, Ill.
Filed Apr. 27, 1951, Serial No. 613,220. Published Jan. 6, 1953. Class 26.

574,544. Fabrics of Cotton, of Rayon, and of Mixtures of Cotton and of Rayon. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed May 2, 1951, Serial No. 613,394. Published Feb. 24, 1953. Class 42.

574,545. Candy. Joseph M. Gidding, New York, N. Y., assignor to Horseshoes, Inc., New York, N. Y.
Filed May 16, 1951, Serial No. 613,910. Published Feb. 24, 1953. Class 46.

574,546. Medicinal Tablets for Human Use—Namely, Those Suitable for Administering Doses of Phenothiazine, Sulfonamides, and Antibiotics. American Cyanamid Company, New York, N. Y.
Filed May 17, 1951, Serial No. 613,962. Published Feb. 10, 1953. Class 18.

574,547. Tooth Brushes. The Lambert Company, Jersey City, N. J., and Northampton, Mass., by merger of Pro-Phy-Lac-Tic Brush Company.
Filed May 18, 1951, Serial No. 614,062. Published Feb. 24, 1953. Class 29.

574,548. Garment Mending Patches. Robert R. Lokey, Jr., doing business as Variety Products, Los Angeles, Calif.
Filed May 25, 1951, Serial No. 614,353. Published Jan. 13, 1953. Class 40.

574,549. Partially Printed Record Books for Bowling Leagues. Michael J. De Vito, New London, Conn.
Filed May 29, 1951, Serial No. 614,404. Published Jan. 13, 1953. Class 37.

574,550. Plant Response Agents—Namely, Defoliants, Desiccants, and Herbicides, and Which Are Sold Commercially for Application to Soil and Vegetation. Sharples Chemicals Inc., Philadelphia, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed May 31, 1951, Serial No. 614,576. Published Aug. 19, 1952. Class 6.

574,551. Water-Proof Plastic Roof Cement Containing Asphaltums and Long Fibre Asbestos. Warren Welman, Jr., doing business as Texasphaltic Company, New Orleans, La.
Filed June 12, 1951, Serial No. 615,093. Published Mar. 3, 1953. Class 12.

574,552. Hard Rubber Combs for Dressing, Ornamenting, and Cleaning the Hair. American Hard Rubber Company, Hempstead and New York, N. Y.
Filed June 13, 1951, Serial No. 615,105. Published Dec. 30, 1952. Class 40.

574,553. Power-Actuated Agricultural Machinery—Namely, Rotary Beaters for Grass, Grain, Hay, Alfalfa, Etc. Silorators Limited, London, England.
Filed June 13, 1951, Serial No. 615,139. Published Feb. 17, 1953. Class 23.

574,554. Brassières, Girdles, Corselets, and Foundation Garments. Even-Pul Foundations, Inc., New York, N. Y.
Filed July 12, 1951, Serial No. 616,372. Published Feb. 19, 1952. Class 39.

574,555. Liquid Detergent Preparation for Cleaning by Immersion Automobile Carburetor Parts. The Du Bois Company, Cincinnati, Ohio, assignor to The Du Bois Co., Inc., a corporation of California.
Filed July 17, 1951, Serial No. 616,596. Published Feb. 24, 1953. Class 52.

574,556. CONSOLIDATED CERTIFICATE. The American Steel and Wire Company of New Jersey, Cleveland, Ohio, now by merger United States Steel Corporation.
Cord or Rope Composed of Steel Wires Twisted Together. Filed July 23, 1951, Serial No. 616,806. Published July 1, 1952. Class 7.
Electrical Wire. Filed July 23, 1951, Serial No. 616,808. Published Feb. 26, 1952. Class 21.

574,557. Marshmallows. Fireside Marshmallow Company, Chicago, Ill.
Filed July 26, 1951, Serial No. 616,952. Published Feb. 10, 1953. Class 46.

574,558. Women's Fur Apparel—Namely, Coats, Jackets, Capes, and Scarves Manufactured From Mink Pelts. Katzman & Ware, Inc., Chicago, Ill.
Filed Aug. 1, 1951, Serial No. 617,200. Published Feb. 17, 1953. Class 39.

574,559. Cylinder, Pipe Lines, and Valves Sold as a Unit To Be Connected to the Water Supply Line To Be Used for Mixing Water With Chemicals for Firefighting. Aquadyne Corporation, New York, N. Y.
Filed Aug. 3, 1951, Serial No. 617,273. Published Feb. 17, 1953. Class 13.

574,560. Ordinary Playing Cards and Games Played With Playing Cards. Claude Lipman Lyons, London, England.
Filed Aug. 8, 1951, Serial No. 617,448. Published Feb. 24, 1953. Class 22.

574,561. Hair Lacquer. Rilling Company, New York, N. Y., now by change of name The Rilling-Dermetics Company.
Filed Aug. 10, 1951, Serial No. 617,555. Published Mar. 3, 1953. Class 51.

574,562. Wheat Shorts. Charles Banks Stout, doing business under the trade name Washington Flour Mill, Washington, Mo.
Filed Aug. 16, 1951, Serial No. 617,774. Published Mar. 3, 1953. Class 46.

574,563. Biscuits. The Borden Company, New York, N. Y.
Filed Aug. 23, 1951, Serial No. 617,979. Published Feb. 17, 1953. Class 46.

574,564. Men's and Boys' Neckties, Sport Shirts, Basque Shirts. Allied Knitting Mills, New York, N. Y.
Filed Aug. 31, 1951, Serial No. 618,278. Published Feb. 17, 1953. Class 39.

574,565. Boards for the Construction of Walls. The Dean Company, Chicago, Ill.
Filed Sept. 8, 1951, Serial No. 618,537. Published Mar. 3, 1953. Class 12.

574,566. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,676. Published Mar. 3, 1953. Class 14.

574,567. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,677. Published Mar. 3, 1953. Class 14.

574,568. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,686. Published Mar. 3, 1953. Class 14.

574,569. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,687. Published Mar. 3, 1953. Class 14.

574,570. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,688. Published Mar. 3, 1953. Class 14.

574,571. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,689. Published Mar. 3, 1953. Class 14.

574,572. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,690. Published Mar. 3, 1953. Class 14.

574,573. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,691. Published Mar. 3, 1953. Class 14.

574,574. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,692. Published Mar. 3, 1953. Class 14.

574,575. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,693. Published Mar. 3, 1953. Class 14.

574,576. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 12, 1951, Serial No. 618,694. Published Mar. 3, 1953. Class 14.

574,577. Chewing Gum Containing Chlorophyll. H. Gloeckler Associates, Inc., New York, N. Y.
Filed Sept. 18, 1951, Serial No. 618,926. Published Feb. 24, 1953. Class 46.

574,578. Bottled Marinated Herring Fillets. Walter Richman, Brooklyn, N. Y.
Filed Sept. 24, 1951, Serial No. 619,168. Published Feb. 10, 1953. Class 46.

574,579. Shower Doors, Dressing Stalls, Metal Toilet Compartments and Partitions, and Caulking Compound. Flat Metal Manufacturing Company, Franklin Park, Ill.
Filed Sept. 28, 1951, Serial No. 619,338. Published Mar. 3, 1953. Class 12.

574,580. Suspensory for Adults and Children Which Supports a Diaper-Like Fibrous Pad Which Absorbs Body Excreta. Donovan Enterprises, Saugatuck, Conn.
Filed Oct. 16, 1951, Serial No. 620,025. Published Feb. 24, 1953. Class 44.

574,581. Suspensory for Adults and Children Which Supports a Diaper-Like Fibrous Pad Which Absorbs Body Excreta. Donovan Enterprises, Saugatuck, Conn.
Filed Oct. 16, 1951, Serial No. 620,026. Published Mar. 3, 1953. Class 44.

574,582. Suspensory for Adults and Children Which Supports a Diaper-Like Fibrous Pad Which Absorbs Body Excretions. Donovan Enterprises, Saugatuck, Conn.
Filed Oct. 16, 1951, Serial No. 620,027. Published Mar. 3, 1953. Class 44.

574,583. Suspensory for Adults and Children Which Supports a Diaper-Like Fibrous Pad Which Absorbs Body Excreta. Donovan Enterprises, Saugatuck, Conn.
Filed Oct. 16, 1951, Serial No. 620,029. Published Mar. 3, 1953. Class 44.

574,584. Binoculars. Manhattan Novelty Corporation, New York, N. Y.
Filed Oct. 19, 1951, Serial No. 620,221. Published Jan. 6, 1953. Class 26.

574,585. Photographic Papers Treated With Active Fluorescent Material Adapted To Emit Visible Light When Irradiated With a Substantially Invisible Ray. Kemart Corporation, San Francisco, Calif.
Filed Oct. 20, 1951, Serial No. 620,259. Published Jan. 13, 1953. Class 26.

574,586. Fuel Pump Units for Oil Burners. The Steel Products Engineering Company, Springfield, Ohio.
Filed Oct. 10, 1951, Serial No. 620,289. Published Feb. 17, 1953. Class 23.

574,587. Strings for the Following Stringed Instruments: Harps, Guitars, Violins, Violas, Viola d'Amour, Viola daGama, Banjos, Cellos, Mandolins, and Strings for the Bass Stringed Instruments. Scherl & Roth, Inc., Cleveland, Ohio.
Filed Oct. 24, 1951, Serial No. 620,440. Published Mar. 3, 1953. Class 36.

574,588. Medicinal Ointment. Max M. Gethner, doing business under the trade names Peraylma Co. and Gethner Drugs, Chicago, Ill.
Filed Oct. 26, 1951, Serial No. 620,499. Published Feb. 10, 1953. Class 18.

574,589. Preparation for Removing Dust-Attracting Static Electricity From Records. Electro-Chemical Products Corp., East Orange, N. J.
Filed Nov. 5, 1951, Serial No. 620,880. Published Mar. 3, 1953. Class 6.

574,590. Cigarette Case and Lighter Combination. Lektrolite Corporation, New York, N. Y.
Filed Nov. 9, 1951, Serial No. 621,074. Published Feb. 24, 1953. Class 8.

574,591. Dairy Products—Namely, Skim Milk, Cottage Cheese, and Ice Cream. Carnation Company, Los Angeles, Calif.
Filed Nov. 13, 1951, Serial No. 621,130. Published Feb. 24, 1953. Class 46.

574,592. Enriched Hog Feed. Central Soya Company, Inc., Fort Wayne, Ind.
Filed Nov. 14, 1951, Serial No. 621,200. Published Feb. 24, 1953. Class 46.

574,593. Infants' Waterproof Panties and for Infants' Play Suits. Birdy Products Corp., New York, N. Y.
Filed Nov. 16, 1951, Serial No. 621,305. Published May 27, 1952. Class 39.

574,594. Periodically Appearing Column in a House Organ. Rand McNally & Company, Chicago, Ill.
Filed Nov. 16, 1951, Serial No. 621,333. Published Feb. 17, 1953. Class 38.

574,595. Truck Trailers, Bodies, and Parts Thereof. Hobbs Manufacturing Company, Fort Worth, Tex.
Filed Nov. 20, 1951, Serial No. 621,462. Published Feb. 24, 1953. Class 19.

574,596. Storm Windows and Storm Window Frames. Arlite Industries, Inc., Newark, N. J.
Filed Nov. 26, 1951, Serial No. 621,650. Published Mar. 3, 1953. Class 12.

574,597. Playing Cards. Emer Reed Deiber, Laguna Beach, Calif.
Filed Dec. 1, 1951, Serial No. 621,960. Published Feb. 24, 1953. Class 22.

574,598. Glue and Library and School Paste Used for Pasting Paper. Birmingham Paper Company, Birmingham, Ala.
Filed Dec. 3, 1951, Serial No. 622,006. Published Feb. 24, 1953. Class 5.

574,599. Sofa Beds and Studio Couches. Massachusetts Mattress Company, Boston, Mass.
Original filed, act of 1946, Supplemental Register, Dec. 6, 1951; amended to application, Principal Register, May 21, 1952, Serial No. 622,160. Published Feb. 24, 1953. Class 32.

574,600. Cleaning Composition Adapted for Use in Cleaning Carpets, Rugs, and Nap Fabrics and Partially Composed of Wood Fibre and Chemicals Having Cleansing Properties. Jerclaydon, Inc., Miami Beach, Fla.
Filed Dec. 10, 1951, Serial No. 622,302. Published Feb. 24, 1953. Class 32.

574,601. Metalized Hand-Made Bricks Used as a decorative Building Material. Apjar Van Stolk Trading Corp., New York, N. Y.
Filed Dec. 11, 1951, Serial No. 622,320. Published Mar. 3, 1953. Class 12.

574,602. Egg White Substitutes (Proteinaceous Whipping Agents) Used in the Baking and Confectionery Trade. Lenderink & Co. N. V., Schiedam, Netherlands.
Filed Dec. 11, 1951, Serial No. 622,338. Published Feb. 24, 1953. Class 46.

574,603. Fuel Additive for Eliminating and Preventing Oil Sludge and Carbon in Fuel Oil and Fuel Tines on Ships and in Industrial Plants. Elraco Engineering Company, Hoboken, N. J.
Filed Dec. 12, 1951, Serial No. 622,383. Published Aug. 5, 1952. Class 15.

574,604. Therapeutic Steam Packs. Chattanooga Pharmacal Co., Inc., Chattanooga, Tenn.
Filed Dec. 13, 1951, Serial No. 622,428. Published Feb. 24, 1953. Class 44.

574,605. Hydraulic Pumps for Tire Spreaders. Paul E. Hawkinson Company, Minneapolis, Minn.
Filed Dec. 26, 1951, Serial No. 622,825. Published Jan. 20, 1953. Class 23.

574,606. Sling Shots. Kálmán Z.-Huszár, Foster, Ohio.
Filed Dec. 28, 1951, Serial No. 622,940. Published Feb. 24, 1953. Class 22.

574,607. Impression Material and Other Related Materials for Use in Dentistry. Mould-Teck Research Laboratories, Inc., New York, N. Y.
Filed Dec. 28, 1951, Serial No. 622,949. Published Feb. 24, 1953. Class 44.

574,608. Adhesives Used To Cement Metal to Metal Such as Used by Toolmakers To Cement Steel Drill Bushings to Steel, Aluminum, or Fiberglass Plates. B-K Products, Los Angeles and Inglewood, Calif.
Filed Dec. 29, 1951, Serial No. 622,981. Published Feb. 24, 1953. Class 5.

574,609. Rodenticides. Lawrence A. Henry, doing business as Had-a-Mouse Co., Decatur, Ill.
Filed Jan. 2, 1952, Serial No. 623,052. Published Feb. 24, 1953. Class 6.

574,610. Oilcloth, Linoleum Rugs, and Flexible Hard Surface Floor Coverings Sold in Sheets or Rolls. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,103. Published Mar. 3, 1953. Class 26.

574,611. Clothes Line or Laundry Supporting Equipment—Namely, Clothes Line Posts, Supports and Parts Thereof. William L. Bodine, Elyria, Ohio.
Filed Jan. 4, 1952, Serial No. 623,179. Published Feb. 24, 1953. Class 24.

574,612. Chairs, the Frame of Which is Formed of Corrugated Cardboard. Dallas Smith Corporation, Indianapolis, Ind.
Filed Jan. 7, 1952, Serial No. 623,287. Published Mar. 3, 1953. Class 32.

574,613. Ground, Hard Bitumen Used as Insulating Material. American Gilsonite Company, Salt Lake City, Utah.
Filed Jan. 8, 1952, Serial No. 623,295. Published Mar. 3, 1953. Class 12.

574,614. Vegetable Cutters (Hand Tools). Gibbons Bros. Rotary Company Limited, Birmingham, England.
Filed Jan. 10, 1952, Serial No. 623,413. Published Jan. 20, 1953. Class 23.

574,615. Separators Having Vane Means for the Centrifugal Separation of Heavier From Lighter Components in Fluid Currents. The V. D. Anderson Company, Cleveland, Ohio.
Filed Jan. 12, 1952, Serial No. 623,496. Published Feb. 17, 1953. Class 23.

574,616. Dermatological Cream for Protection Against Contact Allergens and Primary Irritants and Excoriating Effects of Diaper Rash and Ileostomy and Colostomy Secretions. Abbott Laboratories, North Chicago, Ill.
Filed Jan. 18, 1952, Serial No. 623,742. Published Feb. 10, 1953. Class 18.

574,617. Educational Toy Comprising a Plurality of Rolling Balls and a Support Having a Plurality of Interconnected Rollways for the Balls. Jim-Jon Toy Co., Highland Park, Ill.
Filed Jan. 18, 1952, Serial No. 623,768. Published Mar. 3, 1953. Class 22.

574,618. Permanent Finish, Wrinkle Resistant, and Soil Resistant Cotton Piece Goods. Wm. Simpson, Sons & Co. Inc., Philadelphia, Pa.
Filed Jan. 21, 1952, Serial No. 623,855. Published Mar. 3, 1953. Class 42.

574,619. Non-Electric Hair Curlers. Ideal Curler Co., Chicago, Ill.
Filed Jan. 22, 1952, Serial No. 623,891. Published Dec. 30, 1952. Class 40.

574,620. Soda Ash and Bicarbonate of Soda, Caustic Soda, Etc. Solvay & Cie., Brussels, Belgium.
Priority under Sec. 44(d). Belgian Registration No. 70,130, filed July 30, 1951.
Filed Jan. 25, 1952, Serial No. 624,108. Published Feb. 24, 1953. Class 6.

574,621. Bed Sheets, Crib Sheets, and Pillow Cases. Chicopee Mills, Inc., New York, N. Y.
Filed Jan. 29, 1952, Serial No. 624,225. Published Mar. 3, 1953. Class 42.

574,622. Strainer Type Container Which May Be Hung or Otherwise Supported Adjacent to a Bathtub, Etc. Royal Dalton, Ltd., St. Louis, Mo.
Filed Jan. 30, 1952, Serial No. 624,301. Published Mar. 3, 1953. Class 13.

574,623. Lawn Seed. Seaboard Seed Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,367. Published Feb. 17, 1953. Class 1.

574,624. Natural, Quarried Stone Cut to Size and Used for Construction Purposes. Texas Quarries, Inc., Austin, Tex.
Filed Feb. 1, 1952, Serial No. 624,432. Published Mar. 3, 1953. Class 12.

574,625. Chenille Dusting and Polishing Mitt. Pramitt Textile Company, Dalton, Ga.
Filed Feb. 6, 1952, Serial No. 624,610. Published Mar. 3, 1953. Class 29.

574,626. Chemical Compound in Powder, Paste, or Liquid Form, for Emulsifying and Dispersing Oil, Grease, and Solvents, Also Gasoline and Other Volatile Compounds, To Render the Same Non-Flammable and Eliminate Fire Hazards; Also Used for Cleaning Purposes. Essential Chemicals Co., Milwaukee, Wis.
Filed Feb. 8, 1952, Serial No. 624,681. Published Feb. 24, 1953. Class 52.

574,627. Articles of Furniture—Namely, Beds, Chairs, Tables, Desks, Valets, Chiffarobes, Cabinets, Sofas, Wall Brackets, and Buffets, Made of Wood. John H. Klok, doing business as an individual under the name and style of Klok Craftsman Guild, Grand Rapids, Mich.
Filed Feb. 8, 1952, Serial No. 624,689. Published Mar. 3, 1953. Class 32.

574,628. Hand-Operated Compression Dusters for Pesticides and Weed Killers in Powdered Form. Lowell Specialty Company, also doing business under the name Lowell Manufacturing Company, Chicago, Ill.
Filed Feb. 9, 1952, Serial No. 624,749. Published Feb. 17, 1953. Class 23.

574,629. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,238. Published Feb. 24, 1953. Class 42.

574,630. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,239. Published Feb. 24, 1953. Class 42.

574,631. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,243. Published Feb. 24, 1953. Class 42.

574,632. Cuff Links and Buttons of Non-Precious Material. Olin Industries, Inc., East Alton, Ill.
Filed Feb. 20, 1952, Serial No. 625,289. Published Dec. 30, 1952. Class 40.

574,633. Structural Panel for Walls and the Like Including a Cellular Core and a Facing Sheet at Either End of the Core Cells. Chrysler Corporation, Highland Park, Mich.
Filed Feb. 21, 1952, Serial No. 625,341. Published Mar. 3, 1953. Class 12.

574,634. Cigar and Cigarette Lighters. Olin Industries, Inc., East Alton, Ill.
Filed Feb. 21, 1952, Serial No. 625,367. Published Feb. 24, 1953. Class 8.

574,635. Rice. Rice Growers Association of California, Sacramento, Calif.
Filed Feb. 25, 1952, Serial No. 625,492. Published Feb. 24, 1953. Class 46.

574,636. Metal Telescopic Centering Devices Used in Laying Concrete Floors or the Like To Support Shuttering. Trianco Limited, East Molesey, Surrey, England.
Filed Feb. 25, 1952, Serial No. 625,497. Published Feb. 24, 1953. Class 12.

574,637. Chamois. Atlantic Sponge & Chamois Corporation, New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,571. Published Feb. 17, 1953. Class 1.

574,638. Braids and Binding and Finishing Tapes. S. H. Kress and Company, New York, N. Y.
Filed Feb. 28, 1952, Serial No. 626,433. Published Jan. 20, 1953. Class 40.

574,639. Prophylactic Rubber Articles for the Prevention of Contagious Diseases. Dean Rubber Manufacturing Co., North Kansas City, Mo.
Filed Mar. 17, 1952, Serial No. 626,562. Published Feb. 3, 1953. Class 44.

574,640. Mixture of Dried Bacitracin Broth and Soya Bean Flour or Ground Malt Sprouts for Use as an Ingredient in Animal Feeds. Pabst Brewing Company, Chicago, Ill.
Filed Mar. 18, 1952, Serial No. 626,637. Published Feb. 17, 1953. Class 46.

574,641. Metal Cooking Ware—Namely, Roasting Pan and Top, Casserole Pan, Frying Pan, Skillet, Baking Pan, Vegetable Pan, and Covers Therefor. Genie-Craft Corporation, Washington, D. C.
Filed Mar. 28, 1952, Serial No. 627,181. Published Feb. 17, 1953. Class 13.

574,642. Ladies' and Misses' Blouses and Jackets. Baroness Blouse, Inc., New York, N. Y.
Filed Mar. 29, 1952, Serial No. 627,243. Published Feb. 24, 1953. Class 39.

574,643. Anklets. Richard J. Nestler, doing business as Unrivaled Hosiery Mill, New York, N. Y.
Filed Apr. 5, 1952, Serial No. 627,637. Published Nov. 11, 1952. Class 39.

574,644. Corrugated Paper Mats for Table Tops and Other Surfaces. Chippewa Paper Products Co. Inc., Chicago, Ill.
Filed Apr. 7, 1952, Serial No. 627,674. Published Jan. 6, 1953. Class 37.

574,645. Printed Tags, Tabs, and Labels. R. R. Kellogg Advertising Services, Inc., Los Angeles, Calif.
Filed Apr. 7, 1952, Serial No. 627,687. Published Feb. 24, 1953. Class 38.

574,646. Golf Clubs, Golf Balls, Golf Bags, Head Covers for Golf Clubs, and Golf Gloves. Burke Golf Equipment Corporation, Newark, Ohio.
Filed Apr. 9, 1952, Serial No. 627,803. Published Feb. 24, 1953. Class 22.

574,647. Golf Clubs, Golf Balls, Golf Bags, Head Covers for Golf Clubs, and Golf Gloves. Burke Golf Equipment Corporation, Newark, Ohio.
Filed Apr. 9, 1952, Serial No. 627,805. Published Feb. 24, 1953. Class 22.

574,648. Croquet Sets. Western Auto Supply Company, Kansas City, Mo.
Filed Apr. 10, 1952. Serial No. 627,914. Published Mar. 3, 1953. Class 22.

574,649. Carpet Sweepers. The Associated Merchandising Corporation, New York, N. Y.
Filed Apr. 14, 1952, Serial No. 628,031. Published Jan. 20, 1953. Class 23.

574,650. Baby Pants. Rand Rubber Company, Inc., Brooklyn, N. Y.
Filed Apr. 15, 1952, Serial No. 628,123. Published Feb. 17, 1953. Class 39.

574,651. Artificial Fish Lures. T. N. T. Tackle, Chicago, Ill.
Filed Apr. 18, 1952, Serial No. 628,306. Published Mar. 3, 1953. Class 22.

574,652. Infants' and Children's Shoes, Sandals, and Slippers. Sherman Bros. Shoe Mfg. Corp., Lowell, Mass.
Filed Apr. 21, 1952, Serial No. 628,433. Published Feb. 17, 1953. Class 39.

574,653. Feeds Composed Principally of Grains for Poultry, Cattle, Hogs, Cows, and Horses. Burrus Mills, Incorporated, Dallas, Tex., also doing business under the name and style of Burrus Feed Mills, Fort Worth, Tex.
Filed Apr. 24, 1952, Serial No. 628,610. CONCURRENT USE. Published Feb. 17, 1953. Class 46.

574,654. Carving Knives and Forks, Shears, Scissors, Nippers, Files, Can Openers, Spatulas, Rakes, Hoes, and Hand and Power Operated Lawn Mowers. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Apr. 26, 1952, Serial No. 628,752. Published Feb. 17, 1953. Class 23.

574,655. Bow Neckties. Tie-Rite, New York, N. Y.
Filed Apr. 28, 1952, Serial No. 628,832. Published Feb. 3, 1953. Class 39.

574,656. Clothing for Men, Women, Boys, and Girls—Namely, Hosiery, T Shirts, Underwear, Sport Shirts, Dress Shirts, Dungarees, Cardigans, and Sweat Shirts. Robbins Textiles, Inc., High Point, N. C.
Filed Apr. 29, 1952, Serial No. 628,878. Published Feb. 17, 1953. Class 39.

574,657. Magazines. Approved Comics, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,905. Published Feb. 17, 1953. Class 38.

574,658. Magazines. Approved Comics, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,911. Published Feb. 17, 1953. Class 38.

574,659. Shirts for Outer Wear for Boys. Jets Inc., New York, N. Y.
Filed May 1, 1952, Serial No. 629,026. Published Feb. 3, 1953. Class 39.

574,660. Thermostatic Electric-Relay Switches for Use in Street-Lighting Circuits. W. N. Matthews Corporation, St. Louis, Mo.
Filed May 1, 1952, Serial No. 629,030. Published Jan. 6, 1953. Class 26.

574,661. Feature Articles in a Periodical. The Reader's Digest Association, Inc., Pleasantville, N. Y.
Filed May 1, 1952, Serial No. 629,055. Published Feb. 17, 1953. Class 38.

574,662. Hosiery for Women and Girls. Bacon-Scott Co., Inc., New York, N. Y.
Filed May 2, 1952, Serial No. 629,084. Published Feb. 17, 1953. Class 39.

574,663. Cheese. C. J. Berst & Co., Portage, Wis.
Filed May 3, 1952, Serial No. 629,148. Published Feb. 24, 1953. Class 46.

574,664. Corrective Weight Distributing Inserts for Use in Shoes. Dale W. Austin, Hollywood, Calif.
Filed May 5, 1952, Serial No. 629,188. Published Feb. 10, 1953. Class 44.

574,665. Men's Suits, Including Coats, Vests, and Trousers, Topcoats, and Overcoats. Lebow Bros., Inc., Baltimore, Md.
Filed May 5, 1952, Serial No. 629,208. Published Feb. 3, 1953. Class 39.

574,666. All Types of Candies Impregnated With Ingredients Useful in the Treatment of Nasal Congestion and Having a High Vapor and/or Volatile Qualities. The Vap-O-Glo Company, St. Helens, Oreg.
Filed May 5, 1952, Serial No. 629,222. Published Feb. 10, 1953. Class 18.

574,667. Alfalfa Seed. Northrup, King & Co., Minneapolis, Minn.
Filed May 9, 1952, Serial No. 629,455. Published Feb. 17, 1953. Class 1.

574,668. Aerators for Liquids. Melard Manufacturing Corporation, Long Island City, N. Y.
Filed May 10, 1952, Serial No. 629,500. Published Feb. 17, 1953. Class 13.

574,669. Wall Paper. Plymouth Wallpaper Company, Inc., Baltimore, Md.
Filed May 13, 1952, Serial No. 629,619. Published Jan. 6, 1953. Class 37.

574,670. Hose Made of Fabric or Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed May 13, 1952, Serial No. 629,637. Published Mar. 3, 1953. Class 35.

574,671. Toy Balloons. Kagran Corporation, New York, N. Y.
Filed May 14, 1952, Serial No. 629,674. Published Mar. 3, 1953. Class 22.

574,672. Rotary Pumps and Compressors. Robbins & Myers, Inc., Springfield, Ohio.
Filed May 14, 1952, Serial No. 629,692. Published Jan. 20, 1953. Class 23.

574,673. Hand Lotion, a Hair Cream, a Hair Pomade, a Pressing Oil, and a Face Cream. Carrie McCrae, trading as Essie Mae, Elizabeth, N. J.
Filed May 16, 1952, Serial No. 629,806. Published Feb. 24, 1953. Class 51.

574,674. Medicinal Preparation in Pill Form Used as a Sedative. Chicago Pharmacal Company, Chicago, Ill.
Filed May 19, 1952, Serial No. 629,885. Published Feb. 10, 1953. Class 18.

574,675. Ladies' and Men's Scarves. Amerex Trading Corporation, New York, N. Y.
Filed May 21, 1952, Serial No. 629,981. Published Feb. 3, 1953. Class 39.

574,676. Therapeutic Vaginal Cream for Use in Vaginal Disorders Such as Gonorrhea, Endocervicitis, Cervical Erosions, and After Certain Gynecological Operative Procedures. The Purdue Frederick Company, New York N. Y.
Filed May 21, 1952, Serial No. 630,021. Published Feb. 24, 1953. Class 18.

574,677. Bulk Perfume Compounds Used as Masking agents in Liquid Insecticides and Space Sprays. S. B. Penick & Company, New York, N. Y.
Filed May 24, 1952, Serial No. 630,207. Published Feb. 24, 1953. Class 6.

574,678. Bulk Perfume Compounds Used as Masking Agents in Liquid Insecticides and Space Sprays. S. B. Penick & Company, New York, N. Y.
Filed May 24, 1952, Serial No. 630,208. Published Feb. 24, 1953. Class 6.

574,679. Dining Room Furniture—Namely, a Server. Drexel Furniture Company, Drexel, N. C.
Filed May 26, 1952, Serial No. 630,262. Published Mar. 3, 1953. Class 32.

574,680. Paint Brushes. Golden State Brush Company, North Hollywood, Calif.
Filed May 26, 1952, Serial No. 630,264. Published Feb. 24, 1953. Class 29.

574,681. Chewing Gum. American Chewing Products Corp., Newark, N. J.
Filed May 27, 1952, Serial No. 630,301. Published Feb. 10, 1953. Class 46.

574,682. Textile Fabric of Synthetic Fibers. Avila Fabrics, Inc., New York, N. Y.
Filed May 27, 1952, Serial No. 630,304. Published Feb. 24, 1953. Class 42.

574,683. Bi-Monthly Religious Magazines. National Association of Evangelicals, Chicago, Ill.
Filed May 27, 1952, Serial No. 630,339. Published Feb. 17, 1953. Class 38.

574,684. Piece Goods of Silk, Rayon, Cotton, Synthetic Fibres, and Mixtures Thereof. Oberman Fabrics, Inc., New York, N. Y.
Filed May 27, 1952, Serial No. 630,345. Published Mar. 3, 1953. Class 42.

574,685. Caulking Compounds. Seal Rite Caulking Company, Inc., Detroit, Mich.
Filed May 27, 1952, Serial No. 630,350. Published Feb. 24, 1953. Class 12.

574,686. Golf Balls and Golf Clubs. Burke Golf Equipment Corporation, Newark, Ohio.
Filed May 28, 1952, Serial No. 630,382. Published Feb. 24, 1953. Class 22.

574,687. Venetian Blinds. Hunter Douglas Corporation, New York, N. Y.
Filed May 28, 1952, Serial No. 630,414. Published Feb. 24, 1953. Class 32.

574,688. Fluid for Cleaning Silver and Other Metals. Lewal Industries, Inc., New York, N. Y., assignor to Harnor Industries, Inc., New York, N. Y., a corporation of New York.
Filed May 28, 1952, Serial No. 630,419. Published Mar. 3, 1953. Class 52.

574,689. Radiation Sensitive Element for Measuring Light, Temperature, and Humidity. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed May 31, 1952, Serial No. 630,529. Published Jan. 6, 1953. Class 26.

574,690. Men's and Women's Leather Jackets. Caljax Incorporated, Van Nuys, Calif.
Filed June 2, 1952, Serial No. 630,576. Published Feb. 3, 1953. Class 39.

574,691. Measuring Tapes. Keuffel & Esser Company, Hoboken, N. J.
Filed June 2, 1952, Serial No. 630,600. Published Jan. 6, 1953. Class 26.

574,692. Men's, Women's, Boys', and Girls' Sweaters. Ballantyne of Peebles, Inc., New York, N. Y.
Filed June 4, 1952, Serial No. 630,695. Published Feb. 17, 1953. Class 39.

574,693. Lead Pencils. Rootle Kazootle, Inc., New York, N. Y.
Filed June 4, 1952, Serial No. 630,730. Published Jan. 6, 1953. Class 37.

574,694. Woven Elastic Fabrics in the Piece of Cotton, Rubber, and Acrylic Fibres. Rayflex Fabrics, Inc., New York, N. Y.
Filed June 5, 1952, Serial No. 630,792. Published Feb. 24, 1953. Class 42..

574,695. Booklets Giving General Information in the Nature of a City Directory. Jaynard Publishing Co., Inc., Green Bay, Wis.
Filed June 9, 1952, Serial No. 630,936. Published Feb. 17, 1953. Class 38.

574,696. Synthetic Resins Composed Chiefly of Hydrocarbon Polymers of Deeply Cracked Petroleum. Pennsylvania Industrial Chemical Corporation, Clairton, Pa.
Filed June 13, 1952, Serial No. 631,174. Published Feb. 24, 1953. Class 6.

574,697. Wall Calendars. Joseph A. Dalton, Manson, Iowa.
Filed June 14, 1952, Serial No. 631,204. Published Feb. 17, 1953. Class 38.

574,698. Sheets and Pillow Cases. J. P. Stevens & Co., Inc., New York, N. Y.
Filed June 17, 1952, Serial No. 631,326. Published Feb. 24, 1953. Class 42.

574,699. Margarine. The Miami Margarine Company, Cincinnati, Ohio.
Filed June 18, 1952, Serial No. 631,360. Published Jan. 13, 1953. Class 46.

574,700. Solution for Local Anesthesia. Lester J. Vick and Earle H. Mann, Amarillo, Tex.
Filed June 18, 1952, Serial No. 631,386. Published Feb. 24, 1953. Class 18.

574,701. Rubber Finger Pads. The Sun Rubber Company, Barberton, Ohio.
Filed June 19, 1952, Serial No. 631,445. Published Jan. 13, 1953. Class 37.

574,702. Synthetic Thyroxine for Treatment of Myxedema, Cretinism, and Various Other Hypometabolic States. Travenol Laboratories, Inc., Morton Grove, Ill.
Filed June 21, 1952, Serial No. 631,584. Published Feb. 10, 1953. Class 18.

574,703. Woven Pile Rugs. Belrug Mills of South Carolina, Greenville, S. C., formerly having the corporate name of Belrug Mill, Inc.
Filed June 23, 1952, Serial No. 631,599. Published Feb. 10, 1953. Class 42.

574,704. Collating and Tipping Machines, Otherwise Known as Interleaving Machines Adapted To Place Spot Gum on Paper and Carbon Paper for the Manufacturers of One-Time Carbon Forms. J. Curry Mendes Corporation, Boston, Mass.
Filed June 24, 1952, Serial No. 631,673. Published Jan. 13, 1953. Class 23.

574,705. Misses', Ladies', Boys', and Men's Sweaters, of Woolen and/or Nylon Yarns and Mixtures Thereof. Naipak Knitting Mills, Inc., Brooklyn, N. Y.
Filed June 24, 1952, Serial No. 631,676. Published Feb. 17, 1953. Class 39.

574,706. Chemical Colors—Namely, Pigments, Lakes, and Toners in Both Dry and Liquid Forms, and Chemical Intermediates for the Same. Holland Color and Chemical Company, Holland, Mich.
Filed June 25, 1952, Serial No. 631,738. Published Feb. 24, 1953. Class 6.

574,707. Chemical Colors—Namely, Pigments, Lakes, and Toners in Both Dry and Liquid Forms, and Chemical Intermediates for the Same. Holland Color and Chemical Company, Holland, Mich.
Filed June 25, 1952, Serial No. 631,739. Published Feb 24, 1953. Class 6.

574,708. Gasoline, Kerosene, Domestic Fuel Oils, Lubricating Oils, and Greases. The El Dorado Refining Company, El Dorado, Kans.
Filed June 26, 1952, Serial No. 631,792. Published Nov. 11, 1952. Class 15.

574,709. Metal Fences. Federal Fence Manufacturing Company, Inc., Westerville, Ohio.
Filed June 27, 1952, Serial No. 631,857. Published Feb. 17, 1953. Class 13.

574,710. Dolls. My-Locks Dolls, Mazama and Bremerton, Wash.
Filed June 30, 1952, Serial No. 631,995. Published Mar. 3, 1953. Class 22.

574,711. Men's Sport and Dress Shirts. Macon Shirt Company, Macon, Ga.
Filed July 2, 1952, Serial No. 632,093. Published Feb. 3, 1953. Class 39.

574,712. Cloth Jackets, Leather Jackets, and Sheepskin Coats, for Men, Women, and Children. Wolf Outerwear Co. Inc., Boston, Mass.
Filed July 2, 1952, Serial No. 632,105. Published Feb. 3, 1953. Class 39.

574,713. Disinfectants and Germicides for Household and Industrial Use. Chem-Co., Inc., Baltimore, Md.
Filed July 9, 1952, Serial No. 632,292. Published Mar. 3, 1953. Class 6.

574,714. Cigarette and Cigar Lighters and Parts Thereof. L. Batlin & Son, Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,352. Published Feb. 24, 1953. Class 8.

574,715. Sock-Linings. Maxwell Sachs, doing business under the name of Spring-O-Lator Mfg. Co., Boston, Mass.
Filed July 11, 1952, Serial No. 632,444. Published Feb. 17, 1953. Class 39.

574,716. Textile Piece Goods of Silk, Synthetic Fibers, and Combinations of Such Materials. American Silk Mills, Inc., New York, N. Y.
Filed July 15, 1952, Serial No. 632,546. Published Mar. 3, 1953. Class 42.

574,717. Ladies' and Misses' Nightgowns, Petticoats, Slips, Housecoats, Bedroom Jackets, and Negligees. Juliana Lingerie, Inc., New York, N. Y.
Filed July 15, 1952, Serial No. 632,566. Published Feb. 17, 1953. Class 39.

574,718. Metal Hose Fittings and Couplings, and Hose Assemblies. Stratoflex, Inc., Fort Worth, Tex.
Filed July 16, 1952, Serial No. 632,632. Published Mar. 3, 1953. Class 13.

574,719. Metal Hose Fittings and Couplings. Stratoflex, Inc., Fort Worth, Tex.
Filed July 16, 1952, Serial No. 632,633. Published Mar. 3, 1953. Class 13.

574,720. Men's and Young Men's Trousers. Sears, Roebuck and Co., Chicago, Ill.
Filed July 18, 1952, Serial No. 632,751. Published Feb. 3, 1953. Class 39.

574,721. Electric Household Refrigerators. Mercantile Stores Company, Inc., Wilmington, Del.
Filed June 16, 1952, Serial No. 632,812. Published Jan. 27, 1953. Class 31.

574,722. Men's and Boys' Shirts. Cal-Sun, Inc., Los Angeles, Calif.
Filed July 22, 1952, Serial No. 632,872. Published Feb. 10, 1953. Class 39.

574,723. Dust Filters Made of a Semi-Felted Fabric Including Among Other Fibers, Fibers of Thermoplastic Material. American Felt Company, Glenville, Conn.
Filed July 24, 1952, Serial No. 632,971. Published Feb. 10, 1953. Class 31.

574,724. Men's Neckties. A. Schreter & Sons, Inc., Baltimore, Md.
Filed July 24, 1952, Serial No. 633,000. Published Feb. 10, 1953. Class 39.

574,725. Neckties. Cavalier Cravat Company, Louisville, Ky.
Filed July 25, 1952, Serial No. 633,034. Published Feb. 10, 1953. Class 39.

574,726. Neckties. Cavalier Cravat Company, Louisville, Ky.
Filed July 25, 1952, Serial No. 633,035. Published Feb. 10, 1953. Class 39.

574,727. Cereals—Namely, Rice Cereal, Barley Cereal, Oatmeal, and a Cereal Mixture Containing Semolina, Whole Wheat Flour, Wheat Germ, and Other Ingredients. Gerber Products Company, Fremont, Mich.
Filed July 25, 1952, Serial No. 633,054. Published Feb. 10, 1953. Class 46.

574,728. Sign Printing Machines. Showcard Machine Company, Chicago, Ill.
Filed July 25, 1952, Serial No. 633,083. Published Feb. 17, 1953. Class 23.

574,729. Magazine Published Weekly. McGraw-Hill Publishing Company, Inc., New York, N. Y.
Filed July 28, 1952, Serial No. 633,161. Published Feb. 17, 1953. Class 38.

574,730. Cookies, Crackers, Macaroni, Spaghetti, and Ice Cream Cones. Midwest Biscuit Company, Burlington, Iowa.
Filed July 29, 1952, Serial No. 633,206. Published Feb. 24, 1953. Class 46.

574,731. Ladies' Hosiery. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C.
Filed July 30, 1952, Serial No. 633,256. Published Feb. 17, 1953. Class 39.

574,732. Leather. Hoffmann-Stafford Tanning Co., Chicago, Ill.
Filed July 30, 1952, Serial No. 633,262. Published Feb. 17, 1953. Class 1.

574,733. Women's Hosiery. Phoenix Hosiery Company, Milwaukee, Wis.
Filed July 31, 1952, Serial No. 633,326. Published Feb. 17, 1953. Class 39.

574,734. Comic Drawings Published in Daily and Sunday Newspapers. United Feature Syndicate, Inc., New York, N. Y.
Filed July 31, 1952, Serial No. 633,341. Published Feb. 17, 1953. Class 38.

574,735. Living Room Furniture—Namely, Upholstered Sofas and Chairs; Bedroom Furniture—Namely, Beds, Etc. Irving Katz, Inc., Brooklyn, N. Y.
Filed Aug. 1, 1952, Serial No. 633,367. Published Mar. 3, 1953. Class 32.

574,736. Metal Hose Fittings and Couplings. Stratoflex, Inc., Fort Worth, Tex.
Filed Aug. 1, 1952, Serial No. 633,393. Published Mar. 3, 1953. Class 13.

574,737. Fresh Grapes. Richard Bagdasarian & Co., Thermal, Calif.
Filed Aug. 2, 1952, Serial No. 633,408. Published Feb. 24, 1953. Class 46.

574,738. Brackets and Locking Levers and Locking Bolts for Securing Vibrating Units to Objects To Be Vibrated. Aktiebolaget Vibro-Verken, Stockholm, Sweden.
Filed Aug. 4, 1952, Serial No. 633,441. Published Feb. 17, 1953. Class 13.

574,739. Electric Wringers, Hand-Operated Wringers, and Electric Washing Machines. Naxon Utilities Corporation, Chicago, Ill.
Filed Aug. 4, 1952, Serial No. 633,464. Published Feb. 24, 1953. Class 24.

574,740. Horse Racing Game. John J. Norton, doing business under the firm name and style of John Norton Co., New York, N. Y.
Filed Aug. 5, 1952, Serial No. 633,505. Published Feb. 24, 1953. Class 22.

574,741. Artificial Fish Lures. Leonard H. Henkel, Oak Park, Mich.
Filed Aug. 9, 1952, Serial No. 633,671. Published Feb. 24, 1953. Class 22.

574,742. Hamburger Sandwiches. Robert C. Winn Enterprises, Inc., Glendale, Calif.
Filed Aug. 11, 1952, Serial No. 633,746. Published Feb. 10, 1953. Class 46.

574,743. Metal Carbides, Particularly Calcium Carbide. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany.
Filed June 13, 1952, Serial No. 633,813. Published Feb. 24, 1953. Class 6.

574,744. Perchlorethylene, and Solvent Mixtures Containing Chlorine Substituted Hydrocarbons. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany.
Filed June 13, 1952, Serial No. 633,816. Published Feb. 24, 1953. Class 6.

574,745. Polyvinyl Alcohol. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany.
Filed June 13, 1952, Serial No. 633,818. Published Feb. 24, 1953. Class 6.

574,746. Handle Sticks for Confectionery Products Sold Separately From Said Products. Fruit Products Corporation, New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,843. Published Feb. 17, 1953. Class 13.

574,747. Household Bleach, Having Incidental Detergent Properties. Samuel Pressner, doing business as American Brands Company, Richmond, Va.
Filed Aug. 13, 1952, Serial No. 633,871. Published Feb. 24, 1953. Class 52.

574,748. Monthly Periodical. American Institute of Electrical Engineers, New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,954. Published Feb. 24, 1953. Class 38.

574,749. Woolen and Worsted Fabrics in the Piece. The House of Swansdown, Inc., New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,963. Published Mar. 3, 1953. Class 42.

574,750. Fabrics in the Piece, Made of Wool, Cotton, Rayon, Silk Yarns, and Mixtures Thereof. Shriro Trading Corporation, New York, N. Y.
Filed Aug. 15, 1952, Serial No. 634,007. Published Mar. 3, 1953. Class 42.

574,751. Textile Fabrics in the Piece Made of Synthetic and Cotton Fibers or Combinations Thereof. Burlington Mills Corporation, Greensboro, N. C.
Filed Aug. 21, 1952, Serial No. 634,234. Published Mar. 3, 1953. Class 42.

574,752. Conserved Fruits and Vegetables; Fruit Marmalades and Jams, Etc. Conserves Hero Lenzbourg, Niederlenzer Kirchweg, Lenzbourg, Switzerland.
Filed Aug. 21, 1952, Serial No. 634,241. Published Feb. 24, 1953. Class 46.

574,753. Curtain Track. Vallen, Inc., Akron, Ohio.
Filed Aug. 21, 1952, Serial No. 634,281. Published Mar. 3, 1953. Class 13.

574,754. Canned Fruits and Vegetables, Specifically Canned Peaches, Pears, Beans, Tomatoes, Dry Land Cress, and Small Whole Beets. I. N. Dovel Co., Inc., Luray, Va.
Filed Aug. 25, 1952, Serial No. 634,399. Published Feb. 24, 1953. Class 46.

574,755. Plug Valves. Roto-Gate Valves, Inc., Plainview, Tex.
Filed Aug. 25, 1952, Serial No. 634,421. Published Feb. 17, 1953. Class 13.

574,756. Textile Fabric Composed of Wool and Synthetic Fiber Sold in the Piece for Making Into Garments. American Woolen Company, New York, N. Y.
Filed Aug. 30, 1952, Serial No. 634,677. Published Mar. 3, 1953. Class 42.

574,757. Synthetic Resins; Synthetic Resin Solutions, Etc. Fred'k A. Stresen-Reuter, Inc., Chicago, Ill.
Filed Sept. 5, 1952, Serial No. 634,928. Published Mar. 3, 1953. Class 6.

574,758. Dyestuffs for Leather. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Sept. 8, 1952, Serial No. 634,972. Published Mar. 3, 1953. Class 6.

574,759. Fresh Citrus Fruits. San Fernando Heights Orange Association, San Fernando, Calif.
Filed Sept. 8, 1952, Serial No. 634,992. Published Feb. 24, 1953. Class 46.

574,760. Stabilisers for Polyvinyl Resins. The Baker Castor Oil Company, Jersey City, N. J.
Filed Sept. 9, 1952, Serial No. 635,022. Published Mar. 3, 1953. Class 6.

574,761. Pillow Slips. Alfred W. Fountain, Bexar, Ark.
Original filed, act of 1946, Supplemental Register, Sept. 12, 1952; amended to application, Principal Register, Dec. 19, 1952, Serial No. 635,179. Published Mar. 3, 1953. Class 42.

574,762. Insecticides. National Distillers Products Corporation, New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,193. Published Mar. 3, 1953. Class 6.

574,763. Denim Fabrics. Cone Mills Inc., New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,406. Published Mar. 3, 1953. Class 42.

574,764. Cheese. A/S S. E. Albertus, Copenhagen, Denmark.
Filed Sept. 23, 1952, Serial No. 635,625. Published Feb. 24, 1953. Class 46.

574,765. Cheese. A/S S. E. Albertus, Copenhagen, Denmark.
Filed Sept. 23, 1952, Serial No. 635,626. Published Feb. 24, 1953. Class 46.

574,766. Dough Improver Comprised of Cereal Malts and Enzymes Used by the Baking Industry. The Kansas Milling Company, Wichita, Kans.
Filed Sept. 24, 1952, Serial No. 635,699. Published Mar. 3, 1953. Class 46.

574,767. Pneumatic Tires and Inner Tubes. United States Rubber Company, New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,795. Published Feb. 24, 1953. Class 35.

574,768. Storm Windows and Storm Doors. Challenger Products, Inc., Pittsburgh, Pa.
Filed Sept. 27, 1952, Serial No. 635,871. Published Mar. 3, 1953. Class 12.

574,769. Flannel Piece Goods of Cotton Fibers. Cone Mills Inc., New York, N. Y.
Filed Sept. 30, 1952, Serial No. 635,956. Published Mar. 3, 1953. Class 42.

574,770. Cleaning and Polishing Preparation for Automobiles. S. C. Johnson & Son, Inc., Racine, Wis.
Filed Oct. 6, 1952, Serial No. 636,234. Published Mar. 3, 1953. Class 4.

574,771. Wool Fabrics in the Piece. Miron Mills, Inc., Clinton, Mass.
Filed Oct. 7, 1952, Serial No. 636,302. Published Feb. 24, 1953. Class 42.

574,772. Textile Piece Goods Composed of Cotton. Ely & Walker Dry Goods Company, St. Louis, Mo.
Filed Oct. 8, 1952, Serial No. 636,353. Published Mar. 3, 1953. Class 42.

574,773. Natural, Synthetic, and Reclaimed Rubbers in the Form of Sheets for Further Use in the Industrial Arts. Socfin Company, Limited, Kuala Lumpur, Malaya.
Filed Sept. 11, 1952, Serial No. 636,829. Published Feb. 17, 1953. Class 1.

574,774. Lawn Hose. Quaker Rubber Corporation, Philadelphia, Pa.
Filed Oct. 22, 1952, Serial No. 637,000. Published Mar. 3, 1953. Class 35.

574,775. Lawn Hose. Quaker Rubber Corporation, Philadelphia, Pa.
Filed Oct. 23, 1952, Serial No. 637,085. Published Mar. 3, 1953. Class 35.

574,776. Novelty Synthetic Yarns. Beaunit Mills, Inc., New York, N. Y.
Filed Oct. 25, 1952, Serial No. 637,163. Published Feb. 24, 1953. Class 43.

574,777. Pads for Removing Nail Polish. Helen Smith McClure, New York, N. Y.
Filed Oct. 28, 1952, Serial No. 637,282. Published Feb. 24, 1953. Class 29.

574,778. Joint Sealing Compounds. Koppers Company, Inc., Pittsburgh, Pa.
Filed Oct. 29, 1952, Serial No. 637,315. Published Mar. 3, 1953. Class 12.

574,779. Salad Dressing. The Best Foods, Inc., New York, N. Y.
Filed Nov. 4, 1952, Serial No. 637,565. Published Mar. 3, 1953. Class 46.

574,780. Blast Furnace Bonding Mortar Composed of Refractory Clays and High Alumina Materials. Harbison-Walker Refractories Company, Pittsburgh, Pa.
Filed Nov. 5, 1952, Serial No. 637,657. Published Mar. 3, 1953. Class 12.

574,781. Insecticides and Rodenticides in Liquid and Solid Form and Plastic Pellets Having Water Soluble Insecticide and Rodenticide Material Deposited on the Surface Thereof. Motomco, Inc., New York, N. Y.
Filed Nov. 15, 1952, Serial No. 638,150. Published Feb. 24, 1953. Class 6.

574,782. Weed Killer. Spencer Chemical Company, Kansas City, Mo.
Filed Nov. 17, 1952, Serial No. 638,219. Published Feb. 24, 1953. Class 6.

574,783. General Industrial Arts Solvents. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Nov. 21, 1952, Serial No. 638,410. Published Feb. 24, 1953. Class 6.

Service Mark

574,784. Cleaning and Treating Blankets To Render Them Moth Repellent. Morey La Rue Laundry Co., Elizabeth, Morristown, and Asbury Park, N. J., and Staten Island, N. Y., and Easton, Pa.
Filed Nov. 13, 1948, Serial No. 568,748. CONCURRENT USE. Published Feb. 24, 1953. Class 103.

Certification Marks

574,785. Meat—Namely, Beef, Veal, Mutton, Lamb, and Pork Steaks and Cutlets Tenderised by Machines Manufactured and Sold by It. Cube Steak Machine Co., Needham Heights, Mass.
Filed Sept. 25, 1947, Serial No. 535,688. Published Feb. 10, 1953. Class 46.

574,786. Buttered Popcorn. National Variety Sales, Inc., Milwaukee, Wis., assignor to Supurdisplay, Incorporated, Milwaukee, Wis., a corporation of Wisconsin.
Filed Oct. 1, 1951, Serial No. 619,470. Published Feb. 10, 1953. Class 46.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

574,787. (Class 2. Receptacles.) Bar-Brook Manufacturing Co., Inc., Shreveport, La. Original filed, act of 1946, Principal Register, Aug. 21, 1947; amended to application, Supplemental Register, July 31, 1952, Serial No. 531,988.

NESTAK

For Large Metal Boxes for Use in Transportation and Handling.
Claims use since June 18, 1947.

574,788. (Class 46. Foods and Ingredients of Foods.) Fisher Dairy and Cheese Company, Wapakoneta, Ohio. Original filed, act of 1946, Principal Register, Jan. 5, 1948; amended to application, Supplemental Register, May 21, 1952, Serial No. 546,210.

Fisher's Age Dated

Applicant claims ownership of Registration No. 432,794.
For Cheese.
Claims use since Nov. 11, 1946.

574,789. (Class 29. Brooms, Brushes, and Dusters.) Peter W. De Vore, doing business as Clamp-A-Rag Window Cleaner Co., Astoria, N. Y. Original filed, act of 1946, Principal Register, Sept. 17, 1949; amended to application, Supplemental Register, May 20, 1952, Serial No. 584,974.

CLAMP-A-RAG

For Portable and Hand-Operated Window-Cleaning Device Consisting of a Combination Squeegee and Clamp To Hold a Washing Rag.
Claims use since Dec. 6, 1948.

574,790. (Class 22. Games, Toys, and Sporting Goods.) South Bend Bait Company, South Bend, Ind. Original filed, act of 1946, Principal Register, June 5, 1950; amended to application, Supplemental Register, Mar. 18, 1953, Serial No. 598,614.

ITSADUZY

For Artificial Fishing Lures.
Claims use since May 5, 1950.

574,791. (Class 24. Laundry Appliances and Machines.) David Traum Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 19, 1951; amended to application, Supplemental Register, Mar. 10, 1953, Serial No. 621,430.

TAILOR-MAID

For Ironing Press Cloths.
Claims use since Sept. 19, 1951.

574,792. (Class 12. Construction Materials.) Gustin-Bacon Manufacturing Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, Jan. 2, 1952; amended to application, Supplemental Register, Jan. 2, 1953, Serial No. 623,051.

Ultrafine

Applicant claims ownership of Registration No. 500,585.
For Thermal and Acoustical Material in the Form of Fibrous Mats, Bats, and Blankets.
Claims use since Dec. 6, 1951.

574,793. (Class 50. Merchandise Not Otherwise Classified.) The Displayers, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 2, 1952; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 624,448.

FEATHERWEIGHT

For Portable Demountable Display Assemblies for Use at Trade Shows, Conventions, Exhibits and the Like To Form Exhibitors' Booths or Stands.
Claims use since Aug. 22, 1950.

574,794. (Class 28. Jewelry and Precious-Metal Ware.) Elizabeth B. Holt, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 12, 1952; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 624,832.

Three For Two 342

For Costume Jewelry—Namely, Earrings, Scatter Pins, Cuff Links Made Either Wholly or Partly of/or Plated With Precious Metal.
Claims use since Feb. 5, 1952.

574,795. (Class 50. Merchandise Not Otherwise Classified.) Harriette B. Weber, Saginaw, Mich. Filed Feb. 15, 1952, Serial No. 625,052.

TURKI-JACKET

For Jackets Made of Muslin and Similar Material for Wrapping Fowl and Similar Edibles When Baking.
Claims use since Dec. 1, 1948.

574,796. (Class 14. Metals and Metal Castings and Forgings.) Commercial Controls Corporation, Rochester, N. Y. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, Oct. 31, 1952, Serial No. 628,094.

ROGERS

For Font of Type.
Claims use since August 1950.

574,797. (Class 14. Metals and Metal Castings and Forgings.) Commercial Controls Corporation, Rochester, N. Y. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, Oct. 31, 1952, Serial No. 628,095.

GALVIN

For Font of Type.
Claims use since September 1950.

574,798. (Class 21. Electrical Apparatus, Machines, and Supplies.) Vitalic Battery Company, Inc., Dallas, Tex. Original filed, act of 1946, Principal Register, May 17, 1952; amended to application, Supplemental Register, Nov. 10, 1952, Serial No. 629,874.

Custom-built for the South

Applicant claims ownership of Registration No. 320,645.
For Storage Batteries and Storage Battery Cases.
Claims use since on or about July 1, 1933.

574,799. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sorensen & Company, Inc., Stamford, Conn. Filed June 20, 1952, Serial No. 631,503.

SORENSEN REGULATOR

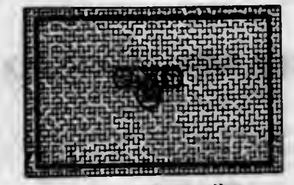
The word "Regulator" is disclaimed. Applicant claims ownership of Registration No. 518,190.
For Regulators Used for Regulating the Voltage and Current Derived From Direct and Alternating Current Sources.
Claims use since on or before Jan. 1, 1946.

574,800. (Class 16. Protective and Decorative Coatings.) Zac-Lac Paint and Lacquer Company, Atlanta, Ga. Filed Sept. 3, 1952, Serial No. 634,821.

ENAMEL ACCELERATOR

The word "Enamel" is disclaimed.
For Synthetic Paint Product for Improving Enamels.
Claims use since on or about Feb. 13, 1947.

574,801. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Stanley Works, New Britain, Conn. Original filed, act of 1946, Principal Register, Oct. 9, 1952; amended to application, Supplemental Register, Mar. 20, 1953, Serial No. 636,441.



The drawing is lined to indicate yellow.
For Wood Screws.
Claims use since Jan. 31, 1952.

574,802. (Class 46. Foods and Ingredients of Foods.) The Nestle Company, Inc., White Plains, N. Y. Filed Oct. 29, 1952, Serial No. 637,320.

CRUNCHETTES

For Milk Chocolate.
Claims use since Oct. 26, 1951.

Service Marks

574,803. (Class 100. Miscellaneous.) Gordon-Nick Linen Supply Company, doing business as American Diaper Service, Philadelphia, Pa. Original filed, act of 1946, Principal Register, July 18, 1951; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 616,633.

PERSONALIZED

For Diaper Rental Service.
Claims use since Feb. 24, 1948.

574,804. (Class 102. Insurance and Financial.) L. Albert Samstag, Jr., New York, N. Y. Filed July 31, 1952, Serial No. 633,329.

"INSURANCE THAT PAYS"

For General Insurance Brokerage.
Claims use since June 1937.

TRADE-MARK REGISTRATIONS RENEWED

40,006. "AUNT JEMIMA" ETC. AND DESIGN. Registered Mar. 31, 1903. R. T. Davis Mill & Mfg. Co., St. Joseph, Mo. Re-renewed Mar. 31, 1953, to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Prepared Malted Wheat-Flaka Food. Class 46.

40,321. UNIVERSAL. Registered May 12, 1903. Illinois Steel Company, Chicago, Ill. Re-renewed May 12, 1953, to Universal Atlas Cement Company, New York, N. Y., a corporation of Indiana. Portland Cement. Class 12.

40,479. MU-COL. Registered June 2, 1903. The Mu-Col Company, Providence, R. I. Re-renewed June 2, 1953, to The Mu-Col Company, Buffalo, N. Y., a corporation of Rhode Island. Antiseptic Compounds. Class 18.

89,169. "W" AND REPRESENTATION OF TWO STARS. Registered Nov. 12, 1912. C. D. Warner Co. Re-renewed Nov. 12, 1952, to Effie E. Warner, doing business as C. D. Warner Company, Coldwater, Mich. Liniment and for a Remedy for Coughs, Colds, and All Diseases of the Throat and Lungs. Class 18.

90,183. REPRESENTATION OF TIGER SHIELD. Registered Feb. 11, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Feb. 11, 1953. Wheat-Flour. Class 46.

90,184. SYSTEM. Registered Feb. 11, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Feb. 11, 1953. Wheat-Flour. Class 46.

90,185. "TOTEM POLE" AND DESIGN. Registered Feb. 11, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Feb. 11, 1953. Wheat-Flour. Class 46.

90,186. "EAST & WEST" AND DESIGN. Registered Feb. 11, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Feb. 11, 1953. Wheat-Flour. Class 46.

90,316. MONDAKO. Registered Feb. 18, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Feb. 18, 1953. Wheat-Flour. Class 46.

90,317. ALDAKO. Registered Feb. 18, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Feb. 18, 1953. Wheat-Flour. Class 46.

90,516. "I'S IN TOWN HONEY!" AND DESIGN. Registered Mar. 4, 1913. The Davis Milling Company, St. Joseph, Mo. Re-renewed Mar. 4, 1953, to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Pancake-Flour. Class 46.

90,977. "POWER" AND DESIGN. Registered Apr. 8, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed Apr. 8, 1953. Wheat-Flour. Class 46.

91,391. STEVENS. Registered Apr. 29, 1913. J. Stevens Arms & Tool Co., Chicopee Falls, Mass. Re-renewed Apr. 29, 1953, to Savage Arms Corporation, Utica, N. Y., a corporation of Delaware. Firearms. Class 9.

91,741. PURITAN. Registered May 27, 1913. Albany Perforated Wrapping Paper Company, Albany, N. Y. Re-renewed May 27, 1953, to A. P. W. Products Company, Inc., New York, N. Y., a corporation of New York. Toilet Paper. Class 37.

91,959. GOLD STRIPE. Registered June 10, 1913. Gotham Silk Mfg. Co. Re-renewed June 10, 1953, to Gotham Hosiery Company, Inc., New York, N. Y., a corporation of Delaware. Hosiery. Class 39.

92,151. "REVOL" AND DESIGN. Registered June 17, 1913. Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Re-renewed June 17, 1953, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York. Snap-Buttons Used as Garment-Fasteners. Class 40.

92,345. COMRADE. Registered July 15, 1913. J. A. Folger & Company, Kansas City, Mo., a corporation of Nevada. Re-renewed July 15, 1953. Coffee. Class 46.

92,546. EL ARDO. Registered July 15, 1913. J. A. Folger & Company, Kansas City, Mo., a corporation of Nevada. Re-renewed July 15, 1953. Coffee. Class 46.

92,547. "LATONA" AND DESIGN. Registered July 15, 1913. J. A. Folger & Company, Kansas City, Mo., a corporation of Nevada. Re-renewed July 15, 1953. Coffee. Class 46.

92,635. HORMOTONE. Registered July 22, 1913. G. W. Carnrick Co., New York, N. Y. Re-renewed July 22, 1953, to G. W. Carnrick Co., Newark, N. J., a corporation of New Jersey. Internal Secretions To Supply Deficient Secretions of the Spleen, Thyroid, Etc. Class 18.

294,740. HOLLY VOGUE. Registered June 7, 1932. Hollywood, Inc. Renewed June 7, 1952, to Katherine L. Collins, Dallas, Tex. Astringents, Astringent Cerates, Bleach Creams, Etc. Class 51.

295,394. "OLD BESS BRAND" AND DESIGN. Registered June 28, 1932. Roethlisberger & Sohn. Renewed June 28, 1952, to Roethlisberger & Sohn, A. G., also trading as Roethlisberger & Fils, S. A., Langnau, Switzerland, a corporation organized under the laws of Switzerland. Cheese. Class 46.

300,435. "WHITE BANNER" ETC. AND DESIGN. Registered Jan. 17, 1933. Premier Malt Products Co., Peoria Heights, Ill. Renewed Jan. 17, 1953, to Pabst Brewing Company, Chicago, Ill., a corporation of Delaware. Malt Beverage Containing Less Than One-Half of One Per Cent Alcohol by Volume. Class 48.

300,592. "ATHLEVE" AND DESIGN. Registered Jan. 24, 1933. Aaron B. Cohn, doing business as The Athleve Company, Toledo, Ohio. Renewed Jan. 24, 1953. Powder for Treatment of Epidermophyton, Trichophyton, and Skin Diseases of Like Character Caused by Perspiration and Chafing of the Skin. Class 18.

300,725. NO DELAY. Registered Feb. 7, 1933. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Renewed Feb. 7, 1953, to The May Department Stores Company, St. Louis, Mo., a corporation of New York. Brushless Shaving Cream. Class 51.

300,815. REMBRANDT. Registered Feb. 7, 1933. Talens & Son, Irvington, N. J. Renewed Feb. 7, 1953, to Talens & Son, Inc., Newark, N. J., a corporation of New Jersey. Drawing Ink, Waterproof and Non-Waterproof, Black and Colored. Class 11.

300,858. TITEETH. Registered Feb. 14, 1933. Superior Laboratories Inc., Cleveland, Ohio, a corporation of Ohio. Renewed Feb. 14, 1953. Powdered Preparation for Holding Dental Plates in Position. Class 51.

301,018. PUL-A-NAP. Registered Feb. 14, 1933. Fort Howard Paper Company, Green Bay, Wis., a corporation of Wisconsin. Renewed Feb. 14, 1953. Paper Napkins. Class 37.

301,056. "PINE-ETTES" ETC. AND DESIGN. Registered Feb. 14, 1933. G. B. Raffetto, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 14, 1953. Diced Pineapples. Class 46.

301,069. FLUFFY-LIGHT. Registered Feb. 14, 1933. The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Renewed Feb. 14, 1953. Pancake Flour. Class 46.

301,234. BLENDFOLD. Registered Feb. 21, 1933. West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware. Renewed Feb. 21, 1953. Coated Papers, for Printing and Writing. Class 37.

301,277. "POLAND MINERAL SPRING WATER" ETC. AND DESIGN. Registered Feb. 21, 1933. Hiram Ricker & Sons, Poland Springs, South Poland, Maine. Renewed Feb. 21, 1953, to Hiram Ricker & Sons, Poland Spring, Maine, a corporation of Maine. Mineral Spring Water. Class 45.

301,322. ROCHAMBEAU. Registered Feb. 28, 1933. The May Department Stores Company, St. Louis, Mo., a corporation of New York. Renewed Feb. 28, 1953. Men's Ties. Class 39.

301,512. LUMENARC. Registered Mar. 7, 1933. Claude Neon Electrical Products Corporation, Ltd. Renewed Mar. 7, 1953, to Electrical Products Corporation, Los Angeles, Calif., a corporation of California. Gaseous Discharge Tubular Lamps. Class 21.

301,524. "KREOLE" ETC. AND REPRESENTATION OF CARTON. Registered Mar. 7, 1933. Manhattan Kreole Products, Inc., Brooklyn, N. Y., a corporation of New York. Renewed Mar. 7, 1953. Polishes, Dressings, and Cleaning Preparations Used on Shoes. Class 4.

301,527. PENTNUCLEOTIDE. Registered Mar. 7, 1933. Smith Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 7, 1953. Medicinal Preparation Recommended for Intramuscular and Intravenous Use. Class 18.

301,558. CHAD VALLEY. Registered Mar. 7, 1933. The Chad Valley Company Limited, Birmingham, England, a company organized under the laws of Great Britain. Renewed Mar. 7, 1953. Dolls, Doll Clothes, Doll Houses and Furniture; Etc. Class 22.

301,677. TILLER COMBINE. Registered Mar. 7, 1933. Cockshutt Plow Company Limited. Renewed Mar. 7, 1953, to Cockshutt Farm Equipment Limited, Brantford, Ontario, Canada, a corporation organized under the laws of the Dominion of Canada. Implements for Simultaneously Plowing, Cultivating, and Seeding and Parts of Such Implements. Class 23.

301,775. CDM. Registered Mar. 14, 1933. Southern Coffee Mills, Ltd. Renewed Mar. 14, 1953, to Blue Plate Foods, Inc., New Orleans, La., a corporation of Louisiana. Roasted and Ground Coffee—Namely, a Blend of Coffee and Chickory. Class 46.

301,796. REMBRANDT. Registered Mar. 14, 1933. Talens & Son, Inc., Irvington, N. J. Renewed Mar. 14, 1953, to Talens & Son, Inc. Newark, N. J., a corporation of New Jersey. Retouching Varnish, Picture Varnish, and Painting Medium To Be Mixed With Paints. Class 16.

301,862. THE WAY TO A MAN'S HEART. Registered Mar. 21, 1933. The Settlement Cook Book Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Mar. 21, 1953. Printed Books. Class 38.

302,328. ALCHEMIK. Registered Apr. 11, 1933. The Truscon Laboratories, Detroit, Mich. Renewed Apr. 11, 1953, to Devoe & Raynolds Company, Inc., New York, N. Y., a corporation of New York. Paste and Liquid Paints, Paint Enamels, Varnishes, Stains, Etc. Class 16.

302,377. "THE WAY TO A MAN'S HEART" AND DESIGN LINED FOR RED. Registered Apr. 18, 1933. The Settlement Cook Book Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Apr. 18, 1953. Printed Books. Class 38.

302,652. "MONARCH" AND REPRESENTATION OF LION'S HEAD. Registered Apr. 25, 1933. Reid, Murdoch & Co. Renewed Apr. 25, 1953, to Consolidated Grocers Corporation, Chicago, Ill., a corporation of Maryland. Confectionery—Namely, Chocolates, Bonbons, Hard Candies, Clear Mints, Butter Mints, Marshmallows, Etc. Class 46.

302,739. SEA. Registered Apr. 25, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed Apr. 25, 1953. Rod and Piston Packing Made of Fabric and Compositions. Class 35.

302,967. "EPICURE" AND DESIGN. Registered May 2, 1933. Jaburg Brothers, Inc. Renewed May 2, 1953, to R. C. Williams & Company, Inc., New York, N. Y., a corporation of New York. Acetic Acid, Citric Acid, Tartaric Acid, Bicarbonate of Soda, Sal Soda, Etc. Class 46.

303,238. "NOKONA" AND DESIGN. Registered May 16, 1933. Nocona Leather Goods Company, Nocona, Tex., a corporation of Texas. Renewed May 16, 1953. Leather Goods—Namely, Handbags, Purses, Billfolds, Key Cases, and Letter Cases. Class 3.

303,445. "KLEANU" ETC. AND REPRESENTATION OF CARTON LINED FOR RED. Registered May 23, 1933. Manhattan Kreole Products, Inc., Brooklyn, N. Y., a corporation of New York. Renewed May 23, 1953. Polishes, Dressings, and Cleaning Preparations Used on Shoes. Class 4.

303,595. COROLON. Registered May 30, 1933. McEwen, Denby & Hart-Briggs Limited. Renewed May 30, 1953, to Turret Grinding Wheel Company Limited, Sunbury-on-Thames, England, a corporation organized under the laws of Great Britain and Northern Ireland. Abrasive Preparations in Solid and/or Powdered Form for Polishing and Grinding. Class 4.

303,627. WENDY. Registered May 30, 1933. Carter & Parker Limited, Guiseley, England, a corporation organized under the laws of Great Britain. Renewed May 30, 1953. Yarns of Wool, Worsted, or Hair. Class 43.

303,635. COSADEIN. Registered May 30, 1933. Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Renewed May 30, 1953. Cough Syrup. Class 18.

303,709. "FLAGSTAFF" AND DESIGN. Registered June 6, 1933. Fisher Flouring Mills Company, doing business as Gallatin Valley Milling Co., West Waterway, Harbor Island, Seattle, Wash. Renewed June 6, 1953, to Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Wheat Flour. Class 46.

303,740. BUCHANAN'S. Registered June 6, 1933. James Buchanan & Company Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed June 6, 1953. Whisky. Class 49.

303,886. CHAMPION. Registered June 13, 1933. The Champion Hardware Company, Geneva, Ohio, a corporation of Ohio. Renewed June 13, 1953. Sash Lifts, Door Stops and Pulls, Base Knobs, Push Plates, Etc. Class 13.

303,913. "RED TOP" AND DESIGN. Registered June 13, 1933. Red Top Malt Company. Renewed June 13, 1953, to Red Top Brewing Company, Cincinnati, Ohio, a corporation of Ohio. Malt Beverage, With Not More Than the Legal Alcoholic Content. Class 48.

303,999. "VAT 69" ETC. AND DESIGN. Registered June 13, 1933. William Sanderson & Son, Limited. Renewed June 13, 1953, to William Sanderson & Son Limited, Leith, Scotland, a limited liability company registered under the laws of Great Britain. Scotch Whisky. Class 49.

304,005. REPRESENTATION OF BUTLER ETC. Registered June 13, 1933. Jaburg Brothers, Inc. Renewed June 13, 1953, to R. C. Williams & Company, Inc., New York, N. Y., a corporation of New York. Alimentary Paste, Butter, Candies, Etc. Class 46.

304,045. "THE GREEN CARD" ETC. AND DESIGN. Registered June 20, 1933. Clifford W. Pfluger, New York, N. Y. Renewed June 20, 1953, to Clifford Wm. Pfluger, Teaneck, N. J. Printed Mutual Racing Charts. Class 38.

304,137. MONOPLANE. Registered June 20, 1933. P. H. Glatfelter Company, Spring Grove, Pa., a corporation of Pennsylvania. Renewed June 20, 1953. Writing and Printing Paper. Class 37.

304,660. "J. JAY BEE" AND REPRESENTATION OF BEE. Registered July 11, 1933. Jaburg Brothers, Inc. Renewed July 11, 1953, to R. C. Williams & Company, Inc., New York, N. Y., a corporation of New York. Alimentary Paste, Butter, Candies, Etc. Class 46.

304,772. MONETARY BOND. Registered July 18, 1933. Graham Paper Company, St. Louis, Mo., a corporation of Missouri. Renewed July 18, 1953. Bond Paper. Class 37.

304,921. "LOESER'S BROOKLO" ETC. Registered July 25, 1933. Frederick Loeser & Co., Inc. Renewed July 25, 1953, to Namm-Loeser's, Inc., Brooklyn, N. Y., a corporation of New York. Men's Clothing—Namely, Men's Overcoats and Men's Suits. Class 39.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

253,957. PARK LANE. Registered Mar. 12, 1929. May Department Stores Company, New York, N. Y. Hosiery. Class 39. Canceled Apr. 10, 1953. Canc. No. 5594.

444,397. VIVIANO. Registered Jan. 16, 1951. Viviano Foods, Inc., St. Louis, Mo. Prepared Ready To Eat Canned Foods—Namely, Spaghetti With Cheese; Etc. Class 46. Canceled Apr. 10, 1953. Canc. No. 5942.

541,879. KINGSTON. Registered May 1, 1951. Alex Morguloff, doing business as Hub Appliance Stores, Detroit, Mich. Electric Domestic Vacuum Cleaners. Class 21. Canceled Apr. 7, 1953. Sec. 7(c).

550,313. STA-CLEAN. Registered Oct. 30, 1951. O-B Corporation, Lynwood, Calif. Detergent Preparation for Use as a Hand Cleaner. Class 52. Canceled Apr. 3, 1953. Canc. No. 5840.

564,225. MULTIWALL. Registered Sept. 16, 1952. St. Regis Paper Company, New York, N. Y. Paper Bags. Class 2. Canceled Apr. 3, 1953. Canc. No. 5994.

564,802. "RONA EVER WEAR" AND DESIGN. Registered Sept. 30, 1952. Rona Plastic Corp., New York, N. Y. Plastic Canisters for Storing Food. Class 2. Canceled Apr. 10, 1953. Canc. No. 6030.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

126,670. FLOW KOTE. Registered Sept. 30, 1919. E. I. du Pont de Nemours & Company, Wilmington, Del. Ready-Mixed Paints. Class 16. The drawing is amended to appear as follows:

FLOW KOTE

303,311. "FREEZ PRUF" AND DESIGN. Registered May 23, 1933. Publicker Commercial Alcohol Company, Philadelphia, Pa. Anti-Freeze Compounds. Class 6. Corrected as follows: In the certificate, line 4; and in the statement, lines 3 and 4, "Delaware" should be *Pennsylvania*.

307,365. "MOULIN ROUGE" AND DESIGN. Registered Oct. 24, 1933. Theonett & Co., Inc., Chicago, Ill. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Inc.," should be deleted.

307,366. "MOULIN ROUGE" AND DESIGN. Registered Oct. 24, 1933. Theonett & Co., Inc., Chicago, Ill. Champagnes and Wines. Class 47. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Inc.," should be deleted.

541,186. TAME. Registered Apr. 17, 1951. Gillette Safety Razor Company, Boston, Mass. Creme Hair Dressing. Class 51. The drawing is amended to appear as follows:

Tame

569,506. TOIDEY CO. Registered Jan. 20, 1953. The Toidey Company, Gertrude A. Muller, Inc., Fort Wayne, Ind. Infants' Disassembled Furniture, Etc. Class 32. Corrected as follows: In the statement, lines 7 and 8, "disassembled" should be *disassemblable*.

571,343. STEELCRETE. Registered Mar. 3, 1953. Wheeling Corrugating Company, Wheeling, W. Va. Concrete Reinforcing Mesh. Class 12. Corrected as follows: The mark should appear as shown below instead of as in the registration—

STEELCRETE

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 303,219. Registered May 16, 1933. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

VINSOL

For Resin.
Claims use since Oct. 31, 1932.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 280,303. Registered Feb. 10, 1931. G. S. Robins & Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

SUPER-CHLOR

The word "Chlor" is disclaimed apart from the mark as shown.
For Deodorizing and Disinfecting Preparation.
Claims use since May 19, 1928.

CLASS 15

OILS AND GREASES

Reg. No. 90,381. Registered Feb. 18, 1913. Wm. C. Robinson & Son Co., Baltimore, Md., and Coraopolis, Pa., a corporation of Maryland. Republished by registrant, present address Baltimore, Md.

GREOIL

For Lubricating Oil.
Claims use since Jan. 1, 1907.

Reg. No. 90,841. Registered Mar. 25, 1913. Wm. C. Robinson & Son Co., Baltimore, Md., a corporation of Maryland. Republished by registrant.

MARVO

For Cylinder-Oil.
Claims use since Nov. 1, 1907.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 375,541. Registered Feb. 20, 1940. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

BELPHEDRIBARB

For Antispasmodic-Sedative Pharmaceutical Preparation in Tablet Form.
Claims use since Aug. 26, 1939.

Reg. No. 376,965. Registered Apr. 9, 1940. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

BELNESIUM

For Preparation for the Treatment of Gastro-Intestinal Disturbance.
Claims use since Nov. 16, 1939.

Reg. No. 381,004. Registered Sept. 10, 1940. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

IOZANTHAL

For Medicinal Preparation for Cardio-Vascular Diseases.
Claims use since Mar. 19, 1938.

Reg. No. 385,199. Registered Feb. 18, 1941. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

PANTABEE

For Medicinal Preparation for B Complex Deficiencies and Infections, Chronic Gastro-Intestinal Disorders, Subclinical Pellagra, and Neuritis From Certain Causes.
Claims use since Aug. 23, 1940.

Reg. No. 394,351. Registered Mar. 31, 1942. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

Dovasac

For Analgesic-Sedative Tablets.
Claims use since Mar. 1, 1941.

Reg. No. 394,374. Registered Mar. 31, 1942. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

DUOSULFON

For Ointment for the Treatment of Cutaneous Infections.
Claims use since May 15, 1941.

Reg. No. 397,246. Registered Aug. 25, 1942. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

CCH CHARLES C. HASKELL & CO., INC.

For Medicinal Preparations for Use as an Analgesic, Sedative, Anti-Spasmodic, Anti-Pyretic, Bacteriostatic, and in the Vitamin Field and for the Treatment of Hypochromic Anemia and Cardio-Vascular Disease.
Claims use since Jan. 1, 1937.

Reg. No. 409,716. Registered Oct. 17, 1944. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

PANTABEEROID

For Preparation for Thyroid Administration.
Claims use since Mar. 28, 1944.

Reg. No. 412,011. Registered Feb. 13, 1945. Charles C. Haskell & Co., Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

ALINESE

For Medicinal Preparation Containing Aluminum Hydroxide, Magnesium Trisilicate, and Reduced Iron for the Treatment of Gastric Hyperacidity.
Claims use since June 15, 1944.

CLASS 19

VEHICLES

Reg. No. 91,813. Registered May 27, 1913. The Standard Company, Torrington, Conn. Republished by The Torrington Company, Torrington, Conn., a corporation of Maine.

S

For Spokes and Nipples of Vehicles.
Claims use since Jan. 6, 1913.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 412,671. Registered Mar. 20, 1945. Adjustable Clamp Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

"Pony"

For Hand and Screw Clamps Including C-Clamps, Bar Clamps, Cabinet Clamps, and Miter Clamps and Parts Thereof; and for Lathe Dogs and Parts Thereof.
Claims use since Aug.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 299,298. Registered Nov. 29, 1932. United States Gauge Company, New York, N. Y. Republished by American Machine and Metals, Inc., Sellersville, Pa., a corporation of Delaware.

SUPERGAUGE U.S. GAUGE

The word "Gauge" is disclaimed apart from the mark as shown.
For Gauges.
Claims use since Feb. 16, 1932.

CLASS 31

FILTERS AND REFRIGERATORS

Reg. No. 301,999. Registered Mar. 21, 1933. The Carborundum Company, Niagara Falls, N. Y. Republished by The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware.

ALOXITE

For Filter Plates, Filter Tubes, Diffuser Plates, Diffuser Tubes, and Porous Media.
Claims use since Apr. 15, 1931.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 435,625. Registered Jan. 6, 1948. Perfection Mattress & Spring Company, Birmingham, Ala., a corporation of Alabama. Republished by registrant.

Dainty Sleep

For Bed Springs and Mattresses.
Claims use since July 1929.

CLASS 37

PAPER AND STATIONERY

Reg. No. 245,303. Registered Aug. 7, 1928. Birmingham Paper Company, Birmingham, Ala., a corporation of Alabama. Republished by registrant.



For Tablets and Writing Paper.
Claims use since Feb. 3, 1928.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 299,268. Registered Nov. 29, 1932. Andrew Y. Michie & Sons, Inc., Philadelphia, Pa. Republished by Andrew Y. Michie & Sons Company, Philadelphia, Pa., a firm.

HYMO

For Hair Cloth Interlining in the Piece.
Claims use since Jan. 22, 1932.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 61,916. Registered Apr. 9, 1907. Wells Flour Milling Company, Wells, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

ETHAN ALLEN

For Wheat Flour.
Claims use since about July 1, 1902.

Reg. No. 108,390. Registered Feb. 8, 1916. The Commercial Milling Co., Detroit, Mich. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

HENKEL'S KENO BAKERS SPECIAL SHORT PATENT FLOUR

The words "Bakers Special Short Patent Flour" are disclaimed apart from the mark as shown.
For Wheat Flour.
Claims use since about Jan. 10, 1915.

Reg. No. 134,431. Registered Aug. 31, 1920. Robin Hood Mills, Limited, Moose Jaw, Saskatchewan, Canada. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

KEYNOTE

For Wheat Flour.
Claims use since Nov. 30, 1911.

Reg. No. 150,166. Registered Dec. 27, 1921. Wells Flour Milling Company, Wells, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

Betsy Ross



For Wheat Flour.
Claims use since Jan. 3, 1921.

Reg. No. 300,881. Registered Feb. 14, 1933. Pinnacle Packing Company, Inc., Medford, Oreg., a corporation of Oregon. Republished by registrant.

401

For Fresh Deciduous Fruits.
Claims use since Aug. 19, 1931.

Reg. No. 301,376. Registered Feb. 28, 1933. Europa Sales Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

EUROPA

For Candy, Chocolates, and Cocoa.
Claims use since Oct. 3, 1932.

Reg. No. 361,151. Registered Oct. 11, 1938. Commercial Milling Company, Detroit, Mich. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

COMCO

The drawing is lined for blue.
For Wheat Flour.
Claims use since on or about Apr. 9, 1937.

Reg. No. 402,028. Registered June 22, 1943. International Milling Company, Minneapolis, Minn., a corporation of Delaware. Republished by registrant.

Hy-Jump

For Wheat Flour.
Claims use since Feb. 8, 1936.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 87,859. Registered Aug. 13, 1912. Jay V. Daniels, Chicago, Ill. Republished by Dearborn Supply Company, Chicago, Ill., a corporation of Illinois.

SAXOLITE

For Face Powders.
Claims use since May 15, 1911.

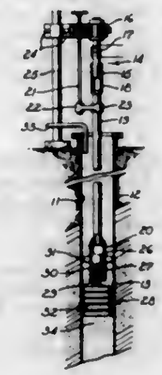
REISSUES

MAY 19, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,657
METHOD OF AND APPARATUS FOR CUTTING MATERIALS

Albert G. Bodine, Jr., Van Nuys, Calif.
Original No. 2,460,919, dated February 8, 1949, Serial No. 468,803, December 12, 1942, Application for reissue September 2, 1952, Serial No. 307,578
24 Claims. (Cl. 51—59)

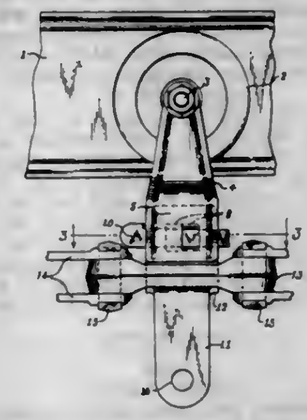


15. In an apparatus for treating the surface of an article, the combination of: a transmitter; means supporting said transmitter adjacent the surface to be treated; a fluid contacting said transmitter and such surface; surface treating elements in said fluid supported by said fluid; wave generating means; and means adapted for transmitting waves of alternate compression and tension impulses therein from said generating means to said transmitter to oscillate said elements in contact with such surface by oscillating particles of said fluid in which they are suspended.

23,658
OVERHEAD CONVEYER TROLLEY

Eugene Gaboury, Van Dyke, Mich.
Original No. 2,517,652, dated August 8, 1950, Serial No. 675,581, June 10, 1946. Application for reissue February 26, 1953, Serial No. 339,196
7 Claims. (Cl. 198—177)

1. A conveyor trolley comprising a pair of opposed hanger arms having mutually confronting lower portions and spaced upper portions, a pair of substantially aligned rollers mounted upon and between said upper portions, a pair of keepers respectively carried by the respective lower portions of said arms, a key interposed between said lower portions and engaging in said keepers to lock the arms in unitary relation, and



a plate interposed between said lower portions and apertured to receive both keepers.

23,659
HOLDER FOR SET SCREW WRENCHES AND THE LIKE

George J. Steine, Glencoe, Ill., assignor to Metal Engineering Company, a corporation of Illinois
Original No. 2,604,211, dated July 22, 1952, Serial No. 47,816, September 4, 1948. Application for reissue August 22, 1952, Serial No. 305,927
5 Claims. (Cl. 211—69)



3. A holder for tools or the like comprising a hollow casing having a top head through which is a plurality of spaced-apart holes, each hole being located proximate to the inside face of a vertical wall of the casing, a plurality of vertical guides within the holder, one in line with each top hole, each guide having a longitudinal slot opening out upon its inner side, and a resilient member carried within the holder below the top head thereof and shaped as to present its periphery adjacent the guide slots for engagement with a portion of tools inserted downwardly through the top holes into the guides therebelow and exposed in said slots, thereby to exert an outwardly directed presure against each tool sufficient to support it frictionally in place in the holder.

PLANT PATENTS

GRANTED MAY 19, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,188
ROSE PLANT
Francis Meilland, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa., a corporation of Pennsylvania
Application June 11, 1952, Serial No. 293,030
In France September 24, 1951
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as a novelty by the relatively vivid, lively, yet harmonious shades of red and yellow colors of its bi-colored blooms, combined with its superior foliage and good disease resistance, and the improved vigor of the plant as evidenced by its bushy habit of growth, production of foliage in abundance and great freedom of bloom.

1,189
ROSE PLANT
Mathias Tantau, Uetersen, Germany, assignor to The Conard-Pyle Company, West Grove, Pa., a corporation of Pennsylvania
Application June 5, 1952, Serial No. 292,014
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the large-flowered, hybrid polyantha class, substantially as herein shown and described, characterized particularly as to novelty by the unusually velvety texture of the petals of its flowers, by the relatively fixed and long-lasting deep red color of its flowers, said color remaining virtually unchanged from the early bud through successive stages of bloom and enduring even under adverse weather conditions, by the long persistence of the blooms without petal deterioration, by the regularity of form of its clusters of inflorescence and their uniform production on the plant, and by the upright, compact and even growth of the plant, altogether combining to extend the usefulness and value of this variety as border and hedge plants, as well as for cut flower use and for other forms of garden decoration.

1,190
CAMELLIA PLANT
Roland W. Dailey, San Jose, Calif.
Application July 23, 1947, Serial No. 763,018
1 Claim. (Cl. 47—60)

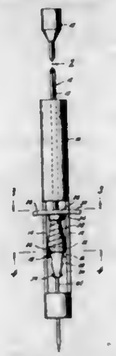
A new and distinct variety of camellia plant substantially as herein disclosed, characterized as to novelty by its slender pendulous branches, its habit of putting out blossoms along a substantial portion of the branches, and the formation of the blossoms in downwardly facing positions.

PATENTS

GRANTED MAY 19, 1953

GENERAL AND MECHANICAL

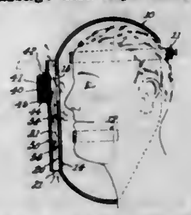
2,638,591
NAIL HOLDING AND POSITIONING DEVICE
Lewis S. Harris, Alta Loma, Tex.
Application April 6, 1951, Serial No. 219,582
4 Claims. (Cl. 1—47)



1. A nail starter comprising a supporting frame, a driving member in the frame and movable longitudinally thereof, a support surrounding the driving member and fixed on the frame, means on the driving member engageable with the support to limit movement of the driving member in one direction, a movable support on the frame movable toward and away from the fixed support, opposed nail gripping elements in the frame movable toward and away from each other and movable longitudinally of the frame, said elements being engageable with said fixed support to separate said elements upon movement of said movable support toward said fixed support and to move said elements toward each other upon movement of the movable support in said one direction away from said fixed support, yieldable means between the supports and urging the movable support in said one direction to move said elements toward each other into gripping engagement with a nail positioned between said elements to hold the nail in the frame in driving contact with the driving member.

2,638,592
WELDING MASK
Curtis L. Olson, Alexandria, Va.
Application May 24, 1951, Serial No. 228,107
2 Claims. (Cl. 2—8)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A welding hood assembly comprising, in combination, a welder's hood for enclosing a welder's head having a face covering portion with a sight opening in line of sight with the welder's head, plate means mounted on the hood and defining a chimney-acting air passage with the hood, the said passage being vertically disposed and having opposite open ends, the bottom open end being an air inlet and the top open end an air outlet, a lens assembly mounted in the plate means in line of sight of an operator and in spaced relation to the sight opening, said sight opening providing an intake for warm air opening into the vertical chimney-acting air passage, warm air entering the vertical air passage through the sight opening rising through the said vertical air passage and aspirating cold air from



the surrounding atmosphere through the open bottom end of the vertical air passage, a mixture of relatively warm and cold air passing as a natural upward draft from the vertical air passage through the open top end thereof, the resulting air draft through the vertical air passage preventing moisture from condensing on the lens assembly, and baffle plate means in said air passage to prevent entrance of arc-flash in the sight opening.

2,638,593
SUNSHIELD WITH DEPENDING VISOR
Vaito K. Eloranta, Boston, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application April 19, 1951, Serial No. 221,918
7 Claims. (Cl. 2—12)



1. A sunshield comprising, in combination, a body member comprising a peak portion and integral, rearwardly extending temple shields, shaped to provide a head-engaging edge, a resilient wire-like head-gripping member detachably affixed to the head-engaging edge of said body member for causing predetermined curvature of said peak portion and displacement of said temple shields towards one another and into head-gripping position, a transparent visor having selective light-transmitting properties, and means affixing said visor to said body member to depend therefrom in face-conforming curvature before the eyes of a wearer of said sunshield with its upper edge spaced rom said head-gripping member and with its lower edge substantially in engagement with the wearer's face, when said sunshield is in position on a wearer's

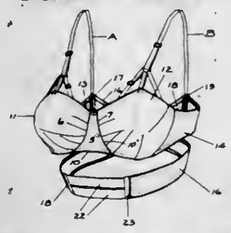
head and to lie closely thereadjacent with its lower, face-engaging edge positioned rearwardly and adjacent the head-engaging edge of said peak portion when said head-gripping member is removed.

2,638,594
GARMENT
Margaret E. Brent and George F. Brent, Pittsburgh, Pa.
Application August 29, 1949, Serial No. 112,928
2 Claims. (Cl. 2—26)



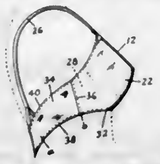
1. A girdle having means incorporated in its structure for facilitating the application and adjustment of the girdle in snug contact with a human body and for facilitating its removal from such body, said girdle comprising a flexible body having a torso-encompassing portion and a portion extending downwardly therefrom snugly to fit the hips of the wearer, and a flat pocket comprising a web of pervious material secured to the inner face of said torso-encompassing portion above the said portion extending downwardly therefrom, said pocket providing between said web and the body of said torso-encompassing portion of the girdle a retainer for a thin distribution of a talc-like toilet powder that is adapted to exude through said web upon the skin of the wearer for facilitating the application, adjustment and removal of the girdle.

2,638,595
GARMENT
Paula Goebel, San Francisco, Calif.
Application June 22, 1949, Serial No. 100,597
1 Claim. (Cl. 2—42)



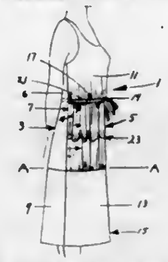
A garment of the character described comprising a central triangular portion equipped with reinforcing stays, a pair of cup shaped breast covering portions secured to said central portion, side sections secured to outer side portions of the breast covering portions, the said side sections adapted to underlie the arm pits of the wearer, a pair of belt sections adapted to overlap at a point medially of their length and being secured to said side sections for partially enveloping the waist and diaphragm of the wearer, and a pair of elastic extensions connected to said belt sections for detachable engagement therewith.

2,638,596
BRASSIÈRE
Maude C. Fridolph, Pasadena, Calif.
Application January 2, 1951, Serial No. 203,961
3 Claims. (Cl. 2—42)



1. A brassière comprising a front portion including a pair of spaced apart cup sections, side bands extending outwardly and downwardly from opposite ends of said front portion, and means to secure the outer ends of said side bands together, said front portion and said side bands having lower edges which describe substantially a semicircle when the front portion and side bands are laid flat in an open condition.

2,638,597
MATERNITY GARMENT
Janet Briggs, Chicago, Ill., now by change of name Jeanette M. Troxell
Application October 9, 1947, Serial No. 778,802
26 Claims. (Cl. 2—74)

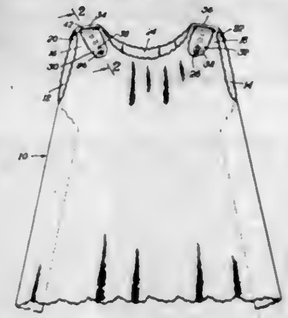


8. A maternity garment comprising, a combination, a back, a front having at least a portion which is circumferentially expansible at least at the areas of the waist and abdomen, said front portion being joined to the back at side seams, and means for controlling the circumferential expansion, said front portion initially conforming to the normal three dimensional curvature of the figure and including extra material extending generally horizontally between, and being held at, the side seams at a level at which the user's body will increase its forward projection during pregnancy, said material being releasable progressively downwardly for the purpose of providing changes in the vertical curvature of the front but continuing to be held at the side seams, the circumferential and the vertical changes thereby permitting the garment to be changed in accordance with the changes in the curvature of the figure as pregnancy progresses.

2,638,598
INFANT'S SLIP WITH ADJUSTABLE SHOULDER STRAPS
Reuben Abramson, Forest Hills, N. Y.
Application August 30, 1951, Serial No. 244,362
1 Claim. (Cl. 2—75)

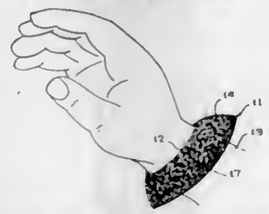
A slip or the like for infants and children, having shoulder straps which are connected at one

end to the front of the garment, buttonholes formed in the opposite end of said shoulder straps, buttons secured to the back of the garment for selective engagement with said buttonholes to fasten said opposite end of the shoulder straps to the back of the garment, additional shoulder straps connected at one end to the back of the garment, buttonholes formed in the opposite end of said additional shoulder straps, and buttons secured to the front of the garment for selective engagement with said last mentioned buttonholes



to fasten said opposite end of the additional shoulder straps to the front of the garment, said first mentioned shoulder straps being provided with transversely extending openings and said additional shoulder straps being drawn through said openings to reach the buttons on the front of the garment, whereby said first mentioned shoulder straps and said additional shoulder straps are disposed in overlapping relationship across the shoulders of the wearer of the garment to support the garment therefrom.

2,638,599
SPONGE RUBBER WRISTLET
Henry Flink, Morton, Minn.
Application January 8, 1952, Serial No. 265,464
2 Claims. (Cl. 2—170)



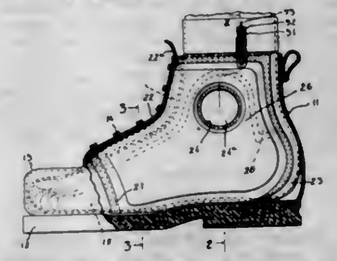
1. A wristlet for preventing the flow of water from the hand to the forearm comprising a body of sponge rubber having a central aperture adapted to receive the wrist and tapering in thickness from one end thereof to the other, the body being adapted to surround the user's wrist with the thickest portion thereof located adjacent the user's forearm, the sponge rubber of the body adjacent the user's hand being relatively coarse in texture, whereby moisture from the user's hand will be intercepted on the flaring outer portion of said body, and the sponge rubber of the thickest portion of the body being relatively fine in texture, whereby the flow of moisture toward the thickest portion of the body will be retarded.

2,638,600
ATTACHABLE CUFF FOR TROUSER LEGS AND THE LIKE
Charles Crompton, Jr., Brooklyn, N. Y.
Application August 7, 1951, Serial No. 240,678
3 Claims. (Cl. 2—232)



2. A cuff to be detachably secured to the cuff of trousers, comprising a clip having spring means to grip the top of the trouser cuff, and spring means to grip the lower end of the trouser and its cuff, a band of flexible material encircling the trouser cuff, and completely covering the clip, and means to attach said band to said clip.

2,638,601
ARTICLE OF FOOTWEAR
Edward P. Bullard III, Fairfield, Conn.
Application March 16, 1950, Serial No. 149,997
6 Claims. (Cl. 2—239)

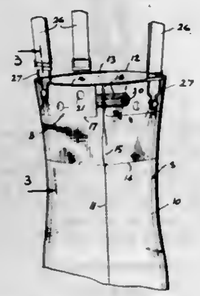


1. An article of footwear for use inside a ski boot or the like having a rigid, non-flexible sole and heel portion including an inflatable bladder so located as to cover the upper surface and the outer side surface of the foot from a point forward of the instep to a point adjacent the heel, and located, when worn, entirely within said ski boot or the like; and means including a valve to permit inflating said bladder after being placed on a wearer's foot and after a ski boot or the like is secured to the foot on which said article of footwear is located, whereby the sole and heel of the wearer's foot are maintained in intimate contact with the rigid, non flexible sole and heel of the ski boot and the inner side of the wearer's foot is pressed firmly against the inner side of said associated boot.

2,638,602
SUPPORT STRUCTURE FOR STOCKINGS
Barnett Binkowitz, Brooklyn, N. Y.
Application August 5, 1950, Serial No. 177,930
3 Claims. (Cl. 2—240)

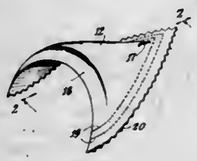
1. A device for supporting stockings in connection with suspended spaced supporting means and hose fasteners comprising a stocking hemmed at its top to form an annular pocket having a closed upper end, a band positioned in said pocket and adapted to form a hoop-like element therein, said band being integral and hav-

ing a length less than the peripheral length of the top of the pocket but greater than the included distance of the spaced supporting means, said band being of material width uniform from end to end and being bendable about its transverse axis but being incompressible and nonstretchable, said band having means at its free end for removably connecting the ends to complete the hoop-like element, said pocket having



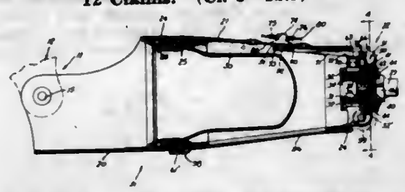
a side opening through which the band may be positioned internal of the pocket, said band carrying supporting means for cooperation with the respective stocking supporting means depending from above the stocking top for positioning the hoop-like element in straight line contact relation with the inner fold of the top of the pocket throughout the length of the top of the unitary portion of the hoop-like element for maintaining such pocket top and band against sagging.

2,638,603
SHOULDER PAD
Walter Riedler and Berthold Mechur, New York, N. Y., assignors, by mesne assignments, to Perma-Fit Shoulder Pad Co., Inc., New York, N. Y., a corporation of New York
Application March 5, 1949, Serial No. 79,825
5 Claims. (Cl. 2—268)



1. A shoulder pad including in combination a covering sheet of flexible material of substantially rectangular outline, a supporting element of relatively rigid material, a cushioning element of relatively resilient material, said flexible sheet being folded substantially centrally upon itself along a line extending from one to another diametrically disposed corner to envelope said elements with the supporting element disposed below said cushioning element and a concave curved edge of said rigid element presenting a recessed edge portion of said element; the adjacent body of said cushioning element being permanently distorted and maintained within such recessed edge portion.

2,638,604
ARTIFICIAL ARM WITH STEPPED-UP WRIST DRIVE AND AUTOMATIC WRIST LOCK
Gilbert M. Motis, Northridge, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application July 14, 1951, Serial No. 236,787
12 Claims. (Cl. 3—12.5)



6. In a below-elbow arm, the combination of a stationary forearm shell having an outer shell mounted on the outer end thereof for rotation about the longitudinal axis of the forearm, a stump socket attached to said outer shell and rotatable therewith, a wrist member rotatably mounted on said outer shell coaxial therewith, and a pair of flexible lines carried by said outer shell, said lines being connected at one end to said stationary forearm shell and at the other end to said wrist member in a manner whereby rotation of said outer shell with respect to said stationary shell causes a pull to be exerted on one of said lines, and the pull of said one line causes said wrist member to be rotated in the same direction relative to said outer shell.

2,638,605
ANATOMICAL KNEE
Orvin S. Johnson, El Segundo, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Original application July 3, 1948, Serial No. 36,957. Divided and this application April 23, 1951, Serial No. 222,508
6 Claims. (Cl. 3—22)



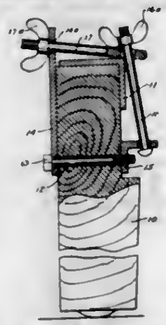
1. In an artificial leg having upper and lower leg components, a knee joint connecting said components together for relative swinging movement, comprising a transverse pivot adjacent the upper end of said lower leg component, link means connected to said upper leg component at fore and aft spaced points thereon, said link means being connected to said pivot and being operative to swing the latter rearwardly and upwardly in a curved, non-circular path from an initial extended-leg position, and other link means interconnecting said first-named link means with said lower leg component for swinging the latter about said pivot to a predetermined angular relationship with respect to said upper leg component for any given position of said pivot along said curved path.

2,638,606
BED BOTTOM
Dwight E. Austin, Kent, Ohio
Application July 13, 1948, Serial No. 38,400
4 Claims. (Cl. 5—239)



3. A bed bottom which comprises a metal base with metal sides extending upwardly therefrom, sponge-rubber supports on the interior of each of the four walls of the bed bottom extending the length of each of the walls, a substantially air-tight cover member formed with closely-spaced, flexible slats extending longitudinally of the bed bottom, with the sides of the cover member supported by the side sponge-rubber supports, located transversely of the bed bottom sponge-rubber cushions resting on said base and supporting the slatted cover at spaced intervals intermediate the head and foot of the bed bottom, said transverse sponge-rubber cushions being substantially air-impervious and dividing the bed bottom into substantially air-tight compartments, the said base and side members of the bed bottom being substantially air-impervious except for valve means controlling the flow of air into and out of each of said compartments.

2,638,607
ADJUSTABLE LEG FOR BEDS AND THE LIKE
Homer R. Evans, Silver Spring, Md.
Application May 11, 1949, Serial No. 92,658
8 Claims. (Cl. 5—310)



1. An article of furniture comprising a frame, a supporting leg and means for attaching said leg to said frame comprising a bolt passing through the upper portion of said leg, a strap-like member and an angle bracket attached to said leg by said bolt, said strap-like member being positioned on one side of said leg and said angle bracket being positioned on another side of said leg, said strap-like member extending a short distance above said leg and having a hole adjacent to the top thereof, means including a pair of adjustable members linked together to receive said angle iron frame member and to clamp inner surfaces to said angle iron frame member against a top corner of said leg.

2,638,608
PAD ATTACHMENT FOR BED COUCHES
Robert O. Garrigus, Sr., Sarasota, Fla., assignor of one-half to Wanda Garrigus
Application April 11, 1952, Serial No. 281,870
6 Claims. (Cl. 5—354)



6. In a pad attachment for a bed couch, a foundation cover including a top and a skirt depending from said top shaped to conformably embrace a bed couch, and a pad conformably shaped to fit the top of said cover superimposed upon the top of said cover, said pad including a sheathing embodying a pair of sheets arranged in superimposed spaced relation and an upstanding tape interposed between and extending about the border of said sheets and secured thereto, the lower sheet being provided with a longitudinally extending slit in its mid-portion, two filler cushion sections fabricated of flexible material arranged in side by side relation conformably fitting and housed within said sheathing, a separator tab depending from the under face of the upper sheet and extending between said cushion sections and through and out of said slit, and coacting fastening elements on the projecting portion of said tab and the exterior face of the lower sheet for securing said tab to said lower sheet, said pad being attached to said foundation cover along two parallel regions spaced from and parallel to two bounding edges of said cover to form a free marginal portion of the pad which may be lifted to give access to the space between such portion and said cover and to tuck into said space the marginal portions of a bed sheet when covering said pad attachment.

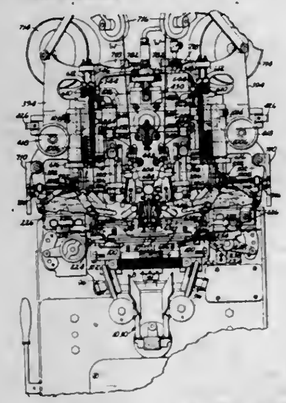
2,638,609
MACHINE FOR BINDING BOOKS
Sidney M. Penner, Bronx, N. Y., assignor, by mesne assignments, to Rudolf Tauber, Brooklyn, N. Y.
Application October 23, 1948, Serial No. 56,143
2 Claims. (Cl. 11—1)



1. A machine for spirally binding a sheaf of papers into a book comprising, a base, an inclined work table on the said base, a lower clamp jaw carried upon the work table, an upper clamp jaw secured to an arm swingably mounted upon the base so as to permit the jaws to be brought together to hold the sheaf of papers, said sheaf having a series of perforations therein along the

edges to be bound, a comb member upon the edge of each jaw adapted to support the sheaf adjacent the perforations, a plate carried on the outside of each comb member and parallel therewith to confine the travel of the binding material, hooks swingably carried by the base intermediate the comb teeth of the lower clamp jaw and projecting above the surface of the work table, said hooks being retractable so as to remove them from the jaws after the sheaf has been grasped by the jaws, said hooks having a curvature and inclination suitable for alinging the perforations in the sheaf to correspond with the path of a spirally shaped binding material and means movably mounted upon the base adjacent the lower clamp jaw to drive a binding material through the aligned perforations in the sheaf.

2,638,610
LASTING MACHINE
Philip E. Burby, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 18, 1950, Serial No. 174,439
72 Claims. (Cl. 12—8.7)

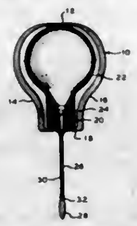


21. In a lasting machine, wipers for wiping the marginal portion of an upper around the toe end of a last inwardly over the feather and against the lip of a welt shoe insole on the last, a wiper carrier supporting said wipers and movable heightwise of the shoe to cause the wipers first to wipe the upper in that direction, means for partially retracting said wipers lengthwise and widthwise of the shoe after they have thus wiped the upper inwardly and for then moving them inwardly again to complete the wiping operation on the upper, grippers for gripping at the opposite sides of the shoe respectively beyond the wipers a binder extending around the toe end of the upper and for pulling the binder inwardly against the upstanding margin of the upper as the wipers are thus partially retracted, holddown members for engaging the binder in locations between the wipers and said grippers and for positioning it in those locations heightwise of the shoe as it is thus pulled against the margin of the upper by the grippers, supports for said holddown members mounted for movements widthwise of the shoe to carry said members inwardly toward the shoe into positions thus to control the binder, springs tending thus to move said supports, and flexible cables connected to said supports and to the wiper carrier for holding the supports initially retracted against the resistance of said springs and for causing them to be moved inwardly by the springs in response to the movement of the wiper carrier heightwise of the shoe.

38. In a lasting machine, grippers for applying a binder around the toe end of an upper to hold the upper in lasted position in the angle between the feather and the lip of a welt shoe insole by pulling the binder lengthwise of the shoe, mechanisms for inserting fastenings in directions widthwise of the shoe in the margin of the upper and the lip of the insole at the opposite sides of the shoe respectively to fasten the binder to the shoe, said fastening-inserting mechanisms being mounted for movements heightwise of the shoe to fastening-inserting positions and each including a driver for inserting the fastening and a pair of binder-positioning members relatively movable heightwise of the shoe to position the binder between them in proper relation to the driver, and devices carried by said fastening-inserting mechanisms and movable thereby heightwise of the shoe between the upper and portions of the binder held taut by the grippers to space those portions of the binder from the upper and thereby to insure the proper positioning of the binder by said binder-positioning members.

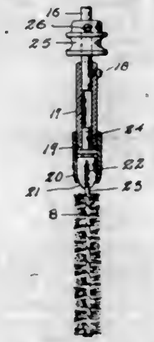
48. In a lasting machine, means for applying a binder around the toe end of an upper to hold the upper in lasted position in the angle between the feather and the lip of a welt shoe insole, stapling units having means for forming staples and for inserting them in directions widthwise of the shoe in the margin of the upper and the lip of the insole at the opposite sides of the shoe respectively to fasten the binder to the shoe, means for moving said units downwardly to staple-inserting positions and for thereafter moving them reversely upward to initial positions, means for limiting their upward movements, means included in each unit for feeding staple-forming wire from a source of supply in response to the downward movement of the unit ready to be received within the unit as the unit is moved upwardly, each unit having means for engaging the end of the wire and for lifting the wire near the end of its upward movement, a brake member arranged to engage the wire and past which the wire is fed downwardly by the unit, and means for guiding the wire between the unit and said brake member, the brake member being mounted to move upwardly with the wire in response to the upward movement of the wire by the unit.

2,638,611
SHOE SQUEAK ELIMINATOR
Robert B. Moore, Evansville, Ind.
Application October 25, 1950, Serial No. 192,037
7 Claims. (Cl. 12—103)



1. A squeak eliminator comprising a bracket having a flattened upper portion and outwardly curved arms, the ends of said arms being integrally connected by a cross member, a tubular conduit extending from an intermediate portion of said cross member toward said flattened portion, a rubber bulb positioned within said bracket and having a thickened neck portion detachably engaging said conduit, and a hollow needle extending from said cross member in the opposite direction in alignment with said conduit and communicating therewith, said needle having a flattened point adjacent its outer end and a transverse passage extending between the opposite edges of said flattened point.

2,638,612
SYRINGE CLEANER
Walton A. Johnson, Elberton, Ga.
Application October 24, 1949, Serial No. 123,238
1 Claim. (Cl. 15—21)



In a syringe cleaner including an open-front housing, an electric motor mounted therein, and a motor shaft, the combination with a tubular holder detachably mounted on the shaft, and a rotary brush having a stem axially alined with the holder, of a resilient clamp head on the stem, an elongated and tubular lock-nut threaded on the holder, and said lock-nut having a free end embracing the resilient head for clamping said head on the brush-stem.

2,638,613
COMBINATION RECEPTACLE CLOSURE AND DISPENSING DEVICE
Roland E. Gunther, Oceanside, N. Y.
Application July 27, 1948, Serial No. 40,979
4 Claims. (Cl. 15—138)



1. In a closure for a receptacle for fluent material which receptacle has a neck defining a passageway and a mouth and a bead extending into said passageway at a location remote from said mouth, said closure including a body portion having a length greater than the length of said neck, an upper section of said body portion extending outwardly of said neck and having an upper end face, and a lower section of said body portion within said neck and having a lower end face, at least said lower section being of elastic material and of a greatest diameter, when said lower section is within said passageway and is free of compression by said bead, slightly less than the greatest diameter of said passageway, and of a diameter, when said lower section is within said passageway and is free of compression by said bead, greater than the diameter of said passageway at said bead, means to permit flow of fluent material from said receptacle to said upper end face, when said elastic material is free of compression by said bead, said compression occurring when said closure is inserted into said neck with the free end of said lower section extending below said bead, said means including the walls of a plurality of spaced-apart passageways within said body portion extending from said lower face toward said upper face, and an elastic skirt portion, having a body portion-connected end and a free end, said skirt portion extending from said body portion intermediate said end faces and with its free end extending inwardly toward said body portion in gripping relationship with said neck.

2,638,614
FOUNTAIN BRUSH HEAD HAVING SLIDING VALVE
James W. Anderson, Kansas City, Kans.
Application March 13, 1950, Serial No. 149,265
2 Claims. (Cl. 15—138)

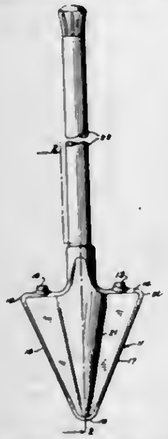


1. A toothbrush of the class described including a hollow head portion having apertures formed therein and to which toothpaste may be delivered, a carrier member detachably carried by said head, bristles mounted in said carrier, said carrier member having apertures formed therein among said bristles and disposed normally in alignment with said head apertures, a resiliently supported detent formed on said carrier for securing said carrier detachably on said head, a valve member disposed slidably between said head and said carrier and having apertures formed therein adapted to be moved to and from registry with said head and carrier apertures, a handle for operating said valve, said handle having an interlocking sliding connection with said carrier, and a resiliently supported detent carried by said head and adapted to engage said valve handle to secure said valve in its closed position.

2,638,615
CLEANING HEAD FOR MOPS
Amos H. Marchus, Oakland, Calif.
Application May 15, 1948, Serial No. 27,340
1 Claim. (Cl. 15—147)

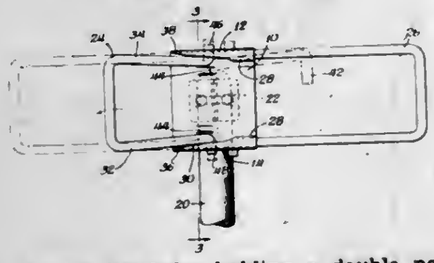
A cleaning head for a mop consisting of a generally triangular resilient body comprising a base, an extension projecting from the transverse center of said base; said extension having a socket therein for the reception of a handle for the head, a pair of sides merging with said base, an apex at the juncture of said sides; said apex being rounded and the junctures between said base and said sides being rounded; said body having a relatively thick section at said base and uniformly tapering to a relatively thin section adjacent to said apex, and a reinforcing section adjacent to the transverse center of said body and extending from the obverse as well as

reverse of said body; said reinforcing section likewise being relatively thick in cross-section



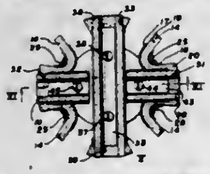
adjacent to said base and uniformly tapering to a relatively thin section adjacent to said apex.

2,638,616
MOP HOLDER
Conrad Fatland, Chicago, Ill.
Application March 21, 1951, Serial No. 216,691
4 Claims. (Cl. 15—147)



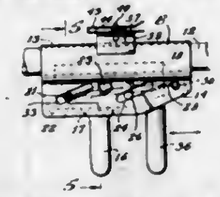
1. A mop head for holding a double pocket swatch comprising a head, a first flat frame mounted on one side of said head, a second flat frame pivotally mounted on the opposite side of said head so that it may be swung into and out of the plane of the first frame, a cam on the head with its edge gradually but increasingly penetrating the path of the second flat frame when the latter is swung from the plane of the first frame, whereby as the second frame is swung away from the plane of the first frame, the second frame more tightly frictionally engages the cam edge.

2,638,617
CONTAINER BRUSH AND THE LIKE
Charles Doering, Chicago, Ill.
Application December 12, 1945, Serial No. 634,438
3 Claims. (Cl. 15—230)



1. A cleansing device comprising an elongated axial member, spaced peripheral collars on said axial member, confronting rigid arcuate cleats bridging said shoulder members and extending parallel to said elongated axial member, yieldable solid strips of material disposed between said confronting cleats and extending beyond the edges and ends of said cleats to present soft pliable projecting diverging edge portions along the length thereof to form end cleansing brushes, said cleats extending beyond the periphery of said shoulder members, and means for detachably associating said confronting cleats with said yieldable strips therebetween to said shoulder members for unobstructed projection beyond said shoulder members to enable brushing contact with the end surface of an article to be cleaned.

2,638,618
ATTACHMENT FOR FASTENING ARTICLES TO BRUSHES, BROOMS, AND THE LIKE
Walter G. Legge, Brooklyn, N. Y.
Application November 14, 1949, Serial No. 127,217
3 Claims. (Cl. 15—247)

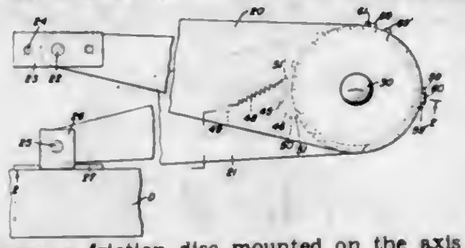


1. An attachment for securing an article adjustably on the handle of a sweeping broom including a longitudinally split tubular member of substantially cylindrical formation adapted to receive the handle of the sweeping broom for free longitudinal movement therethrough and having parallel spaced flanges projecting outwardly from the split edges and spaced apart, a clamping member including a concavo-convex head located within the cylindrical portion of the split tubular member and having a web projecting outwardly therefrom and slidably fitted between said flanges, said web and flanges having diagonal cam slots and cooperating cross studs for guiding the clamping member for movement in angular motion into and out of clamping engagement with the handle, coil spring means secured to a flange and the web for yieldably moving said head into engagement with said handle, a handle affixed to said flanges and extending radially outwardly adjacent to the outer end of a diagonal slot, and a handle affixed to said web and projecting radially outwardly from between said flanges in substantially parallel alignment with and spaced from the handle on the flanges and said handles being adapted to be grasped and clasped together for moving the handle affixed to said web toward the handle on the flanges to thereby free said head from tensioned engagement against the handle of the broom for adjusting the attachment to different locations on the said broom handle.

2,638,619
DOOR BRAKE
Eugene D. Kearney, Rochester, N. Y.
Application January 29, 1949, Serial No. 73,531
7 Claims. (Cl. 16—82)

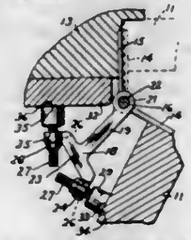
6. A device of the character described comprising a pair of arms, one of which is pivotally connected to a door and the other of which is connected to the frame of the door, means for pivotally connecting the free ends of the two arms together, a plurality of members interposed between the free ends of the two arms, means carried by the arm which is connected to the door

for rotating one of said members about the axis of pivotal connection of the two arms, means preventing the last-named means from rotating said one member until after the arm which is connected to the door has been swung relative to the other arm through a predetermined angle in one direction, another of said members com-



prising a friction disc mounted on the axis of pivotal connection of the two arms and positioned to engage said one member and frictionally resist movement thereof, and a stop for preventing pivotal movement of the arm which is connected to said door after it has been swung through a predetermined additional angle in said one direction against the frictional resistance of said disc.

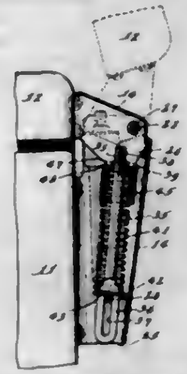
2,638,620
DOORSTOP
Gennaro Civitelli, Hamden, Conn.
Application April 13, 1949, Serial No. 87,320
6 Claims. (Cl. 16—137)



3. A door stop comprising an arm having a hinge pin receiving hole in one end thereof, a cross-bar extending across the other end of said arm with its lengthwise axis at an acute angle to the lengthwise axis of said arm, a lug on each end of said cross-bar, and a bumper attached to each lug.

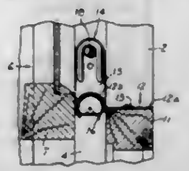
2,638,621
LID BALANCING HINGE AND SUPPORT
William O. Burke, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a corporation of Delaware
Application May 19, 1948, Serial No. 28,010
2 Claims. (Cl. 16—138)

1. A combined hinge and support for hingedly mounting a lid upon a cabinet, consisting of a hollow hinge base member adapted to be mounted on the exterior of the cabinet, a hollow hinge wing member adapted to be mounted upon the exterior of the lid, a pintle for pivotally connecting the hinge wing member to the base member whereby the lid may be moved to open or closed position, a link enclosed within the base member, a pin abutment carried by the wing member and pivotally connecting one end of the link to the wing member in spaced relation to and between said pintle and the cabinet, the other end of said link being provided with an elongated slot, a spring abutment projecting through the slot and mounted in the side walls of the base member whereby the link is adapted to pivot within the base member about the spring abutment and is also longitudinally movable in the base member for the length of the slot, a cup-shaped member slidably mounted on the link adjacent



the pin abutment and a compression spring encompassing the link and having one end received in the cup-shaped member and the other end bearing against the spring abutment.

2,638,622
WINDOW SCREEN FITTING
Joseph H. Oswald, South Euclid, Ohio
Application April 26, 1951, Serial No. 223,033
2 Claims. (Cl. 16—172)

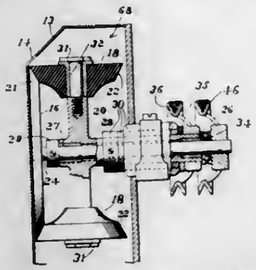


1. Window screen attaching means comprising an integral elongated sheet metal filler strip having a longitudinal flat zone formed to engage a flat longitudinal surface of the top rail of a screen frame and perforated for attachment thereto and also having a longitudinal zone extending from a lateral edge of the said flat zone and bent lengthwise to transverse circular arc form extending substantially more than 180° and substantially less than 360° from its junction with the flat zone; and a pair of hangers each of which has an elongated plate part with a pivot aperture near one end and a trunnion projecting from the face of the plate part near its other end, the trunnion being of a size to enter the end of the arcuate zone of the filler strip and having its lateral surface facing toward the pivotal end of the hanger substantially semi-circular in form to movably fit the inner arcuate surface of the filler strip and having its oppositely facing lateral surface of substantially lesser radial dimension than the said semi-circular surface to permit lateral entry of the trunnion into the arcuate zone of the filler strip.

2,638,623
DRY PICKER FOR POULTRY
Harris F. Hanscom, Barrington, R. I., assignor to Ajax Pickers, Inc., Narragansett, R. I., a corporation of Rhode Island
Application March 7, 1950, Serial No. 148,241
8 Claims. (Cl. 17—11.1)

1. In a poultry plucking machine, the combination comprising a rotatably mounted wheel hav-

ing a continuous feather-gripping surface thereon, a member rotatably mounted to revolve coaxially with said wheel and having a portion extending adjacent said feather-gripping surface, a roller rotatably mounted on said extending portion and having its surface in continuous rolling engagement with said feather-gripping surface, and driving mechanism associated with said wheel and said member for rotating said



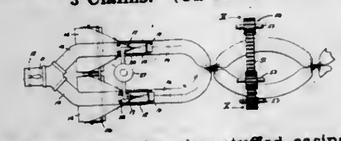
wheel and said member continuously in the same direction, said mechanism rotating said member more rapidly than said wheel to cause rolling movement of said roller on said gripping surface so that feathers presented to said surface will be momentarily gripped between said surface and said roller and plucked by movement in unison of said roller and surface and thereafter released by further rolling movement of said roller.

2,638,624

APPARATUS FOR FORMING, STUFFING, AND SHAPING CASINGS

Worth Wade, Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application September 21, 1948, Serial No. 50,424
3 Claims. (Cl. 17—33)



1. Apparatus for forming stuffed casings and for forming links therein comprising a pair of substantially parallel extrusion nozzles extending in the same direction, means adjacent the discharge end of the nozzles comprising an annular rotatable member for twisting a pair of stuffed casings formed at the nozzles, together at spaced intervals to form links therein, the axis of the rotatable member extending in the same direction and between the nozzles, the annular rotatable member having inwardly extending casing-engaging fingers and a free and unobstructed center portion.

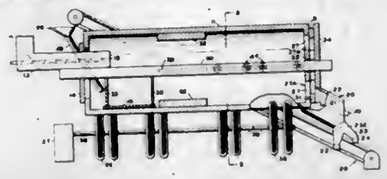
2,638,625

APPARATUS FOR PELLETING CARBON BLACK

Merton L. Studebaker, Bartlesville, Okla., and John E. Crouch, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application June 14, 1948, Serial No. 32,804
2 Claims. (Cl. 18—1)

1. Apparatus for forming carbon black pellets of a predetermined average size from flocculent chain structure carbon black comprising an elongated hollow cylindrical drum having a nonperforate sidewall, horizontally disposed and adapted to rotate around its longitudinal axis as a center, means for introducing flocculent chain structure carbon black into one end of said drum, means for introducing pelleted chain structure carbon black into said one end of said drum, means for removing carbon black pellets from



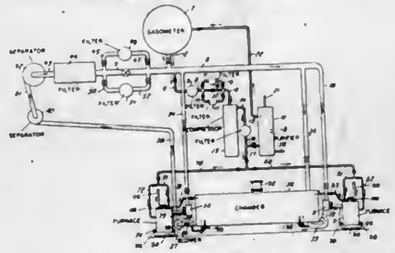
the other end of said drum, means for dividing said removed carbon black pellets into two unsized portions, means for returning one portion to said one end of said drum, and an elongated and stationary rod disposed parallel to and below the axis of the drum at a point near but not touching the sidewall thereof and extending from the inlet end wall to a point downstream thereof and below the normal bed surface of carbon black in said drum to plow through said bed and disturb the equilibrium thereof.

2,638,626

APPARATUS FOR THE PRODUCTION OF METAL POWDER

Henry A. Golwynne, New York, N. Y.

Application September 29, 1949, Serial No. 118,622
21 Claims. (Cl. 18—2.5)



1. In apparatus for producing metal powder from a body of molten metal, the improvement comprising a main circulatory system of connecting conduits adapted to be filled with gas under pressure higher than atmospheric, a gasometer connecting the main circulatory system to hold surplus gas and to take care of contraction and expansion of the gas, a chamber in the system to receive atomized molten metal and to chill the atomized metal into powder, a furnace with a melting pot for melting and holding the body of molten metal, an atomizer in the system for the molten metal connecting the melting pot of the furnace and the chamber, a by-pass conduit connecting the main circulatory system and the atomizer for the passage of some of the gas, a portion of the by-pass conduit being in heat-exchange relationship with the furnace to heat the gas going to the atomizer, a filter to remove metal powder from the gas before it reaches the atomizer, a compressor in the by-pass conduit to increase the pressure of the gas going to the atomizer in the system, a blower above that in the main circulatory system for circulating the gas around the main circulatory system, and a separator in the main circulatory system for separating the powder from the gas.

2,638,627

METHOD AND APPARATUS FOR THE PRODUCTION OF METAL POWDER

Henry A. Golwynne, New York, N. Y.

Application September 29, 1949, Serial No. 118,625
19 Claims. (Cl. 18—2.5)



1. In the method of producing metal powder by atomizing molten metal with a blast of gas inert to the metal and freezing the atomized metal into finely divided particles in a zone forming a part of a main circulatory system, the improvement which comprises conducting the molten metal atomizing and metal powder forming steps in a main stream of the inert gas moving continuously from the main circulatory system through the zone, the gas being under sufficient pressure higher than atmospheric to prevent ingress of outside air and sufficiently cool to chill the atomizing metal into powder particles, introducing into the zone continuously an auxiliary stream of inert gas from the main circulatory system to help keep the newly formed metal powder in suspension in the zone, and withdrawing the metal powder continuously while still suspended in the main stream of inert gas leaving the zone.

7. In apparatus for producing metal powder by atomizing molten metal with a blast of gas inert to the metal and freezing the atomized metal into finely divided particles in a chamber forming part of a main circulatory system, the improvement comprising an inlet in the chamber connecting the main circulatory system for the entrance of a continuous main stream of the inert gas and an outlet in the chamber connecting the main circulatory system for the continuous withdrawal of the main stream of the gas with the newly formed metal powder particles suspended therein and a separate inlet connecting the main circulatory system with the chamber for introducing an auxiliary stream of inert gas from the main circulatory system to help keep the newly formed powder particles suspended in the main stream of inert gas passing through the chamber.

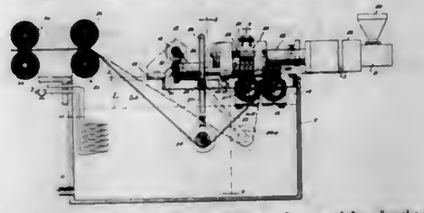
2,638,628

APPARATUS FOR PRODUCTION OF STRIP STOCK FROM POLYAMIDES

Louis L. Stott and Paul L. Shurr, Reading, Pa., assignors to The Polymer Corporation, Reading, Pa., a corporation of Pennsylvania

Application July 21, 1949, Serial No. 106,014
2 Claims. (Cl. 18—9)

1. Equipment for forming strip stock from synthetic linear polyamides, comprising a vessel for receiving a liquid coolant, a pair of forming rolls arranged in side-by-side relation with their axes disposed in a common horizontal plane toward the top of said vessel at least in large part above the level of the coolant therein, mechanism above the forming rolls for feeding molten polyamide downwardly into the entrance nip between the forming rolls, means for cooling the forming rolls to a temperature between 75° F. and 375° F. to provide for substantial solidification of the polyamide while passing in contact with the forming rolls, and mechanism for drawing the formed strip downwardly from forming rolls through the coolant in said vessel including a feeding device engaging the formed strip to draw it from the rolls under tension, the feeding device being horizontally offset from the forming rolls and being located above the level



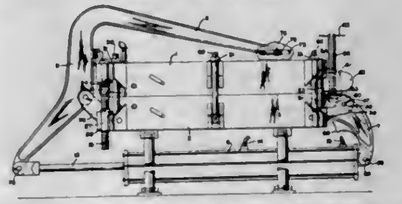
of the coolant in said vessel, and a guide device located between the feeding device and the vertical plane of the pass between the forming rolls but offset downwardly from the forming rolls and feeding device to a position well below the level of the coolant in said vessel and engaging the upper side of the formed strip intermediate the forming rolls and the feeding device to establish a run of the formed strip extending around an appreciable arc of one of the forming rolls and thence downwardly through the coolant to the guide device.

2,638,629

TIRE MOLD

James C. Heintz, Lakewood, Ohio; the Cleveland Trust Company, executor of the said James C. Heintz, deceased

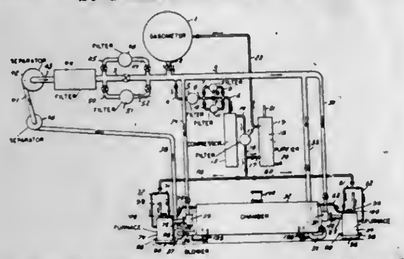
Application January 29, 1951, Serial No. 208,337
1 Claim. (Cl. 18—18)



A hinge-type tire mold formed with a permanently positioned bottom platen and an upper platen supported at the rear by a hinge permanently fastened thereto and vertically slidable in the lower platen, a hoisting arm pivoted at the rear of the mold with the front of its forward portion pivotally and slidably attached to the top of the upper platen forward of its center, a breaker pivoted at the front of the mold with a portion extending rearwardly from its said pivotal attachment and adapted to apply upward pressure to means in the front of the upper platen which is vertically adjustable with respect to the upper platen, and a pressure cylinder with a double-acting piston therein located between (1) a portion of the hoisting arm located below its said pivot attachment and (2) a portion of the breaker located below its said pivotal attachment and pivotally attached to each whereby when fluid is introduced into the cylinder against one surface of the piston so that the piston rod is forced out of the cylinder the front of the upper

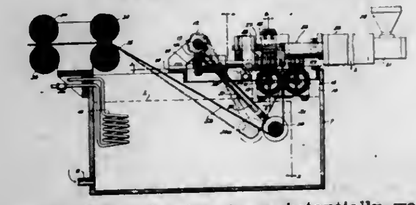
portion of the hoisting arm is lowered and the rearwardly extending portion of the breaker is lowered, and when fluid in introduced into the cylinder against the other surface of the piston and the piston rod is forced into the cylinder the rearwardly extending portion of the breaker is forced upward against the vertically adjustable means at the front of the mold and the front of the upper portion of the hoisting arm is lowered.

2,638,630
PRODUCTION OF METAL POWDER
Henry A. Gelwynne, New York, N. Y.
Application September 29, 1949, Serial No. 118,621
20 Claims. (Cl. 18—47.3)



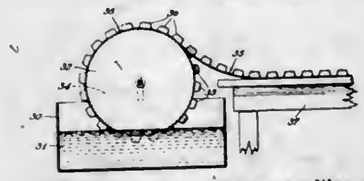
1. In the method of producing metal powder by atomizing molten metal with a blast of inert gas, freezing the atomized metal into finely divided solid particles, and recovering the resulting metal powder, the improvement which comprises conducting the molten metal atomizing, metal powder-forming and powder-separating steps in successive zones therefor of a main confined circulatory system filled with gas inert to the metal, circulating the gas continuously therethrough under a pressure higher than atmospheric to prevent ingress of outside air, withdrawing continuously a relatively small portion of the inert gas from the main circulatory system beyond the powder-separating zone and in advance of the atomizing and powder-forming zones, compressing the gas so withdrawn substantially to increase its pressure above that at any point in the main circulatory system, and atomizing the molten metal in the main circulatory system with at least a part of the compressed gas, the compressed gas being returned to and mixed with the gas in the main circulatory system.

2,638,631
PRODUCTION OF STRIP STOCK FROM POLYHEXAMETHYLENE ADIPAMIDE
Louis L. Stott and Paul L. Shurr, Reading, Pa., assignors to The Polymer Corporation, Reading, Pa., a corporation of Pennsylvania
Application August 9, 1949, Serial No. 109,336
1 Claim. (Cl. 18—55)



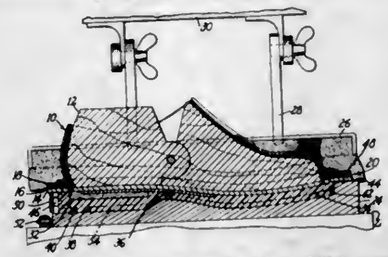
The method for forming substantially wave-free strip stock of thickness less than .020" from polyhexamethylene adipamide, which method comprises feeding molten polyamide to the entrance nip of a pair of forming rolls maintained at a temperature of from 180° F. to 350° F., and drawing the formed strip from the forming rolls under a tension of more than 150 lbs./sq. in., but less than that which would break the strip or appreciably orient the polyamide.

2,638,632
METHOD OF MOLDING
Daniel Glazer, Chicago, Ill.
Application June 17, 1950, Serial No. 168,807
4 Claims. (Cl. 18—58.4)



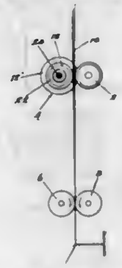
1. The method of molding a wax-like composition into a relatively thin-walled strip having repetitively aligned cup-like receptacles, which comprises providing a molten bath of a wax composition maintained at a temperature only slightly above its melting point, immersing in said bath a metal mold form having protuberances complementarily contoured to form the aforesaid strip and aligned cup-like receptacles, cooling said mold form while so immersed to maintain a temperature differential of at least 60° F. between said mold form and said molten bath during immersion therein to cause said wax composition to congeal in a thin layer on the immersed surfaces of said mold form in contact therewith without strongly adhering thereto, and removing said thin layer of congealed wax composition from said mold form as an intact molded strip having repetitively aligned cup-like receptacles.

2,638,633
MOLDING OF RESIN DISPERSIONS
Andrew A. Root, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 8, 1949, Serial No. 114,630
6 Claims. (Cl. 18—59)



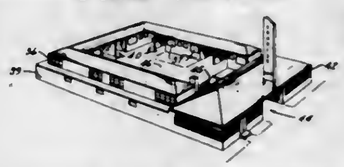
1. The method of providing a molded member of substantial thickness on a surface of an article which comprises bringing together the article and a molding surface to provide between the surface of the article and the molding surface a confined space of substantial thickness, supplying to the space a body of a fluid paste dispersion of resin particles, supplying heat to said body through said molding surface, maintaining the article and dispersion in contact with said molding surface to solidify the portion of the dispersion adjacent the molding surface to a depth such that it forms a shape-retaining shell confining the unsolidified portion of the dispersion against the surface of the article and the solidified material of the shell bonds itself firmly to the portions of the article adjacent the molding surface, removing the article together with the adhering solidified shell and unsolidified dispersion within the shell from engagement with the molding surface, and subjecting the shell and fluid paste dispersion therein to further heat to convert the remainder of the fluid dispersion to a solid resilient condition firmly bonded to the article, said paste dispersion being a fluid mixture of resin particles and liquid plasticizer in which the resin is not dissolved to a substantial extent when cold but is dissolved when the dispersion is heated.

2,638,634
STRETCH BREAKING APPARATUS AND METHOD
Donald G. C. Hare, Clemson, S. C., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York
Application June 20, 1947, Serial No. 756,069
5 Claims. (Cl. 19—0.37)



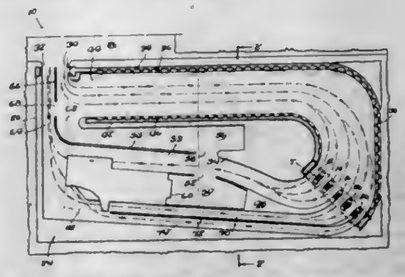
1. The method of treating tow which comprises stretch breaking the tow in a drafting mechanism while applying heat and moisture to the tow at the nips of the feed rolls.

2,638,635
BUILDING SUITABLE FOR USE AS TOURIST LODGES AND THE LIKE
Mayo L. Priebe, Rochester, Minn.
Application January 30, 1950, Serial No. 141,303
1 Claim. (Cl. 20—1)



An integrated tourist lodge consisting in an administrative unit having a lobby, a plurality of individual living units each having sleeping quarters and windows therein for light and ventilation, an automobile storage space adjacent each of and paired with said living units, the pairs being arranged in series, said administrative unit and said series extending along the periphery of and enclosing a court, said windows being on the exterior side of said living units, an enclosed corridor at a level below said living units and closely adjacent to and below the windows in said units intercommunicating between and coupled with said living units and said administrative unit as a unitary structure, and an automobile entrance leading through said administrative unit into said court whereby control over arrivals and departures of automobiles may be maintained.

2,638,636
SHOPPING ESTABLISHMENT
Edward A. Pool, New York, N. Y.
Application January 31, 1951, Serial No. 208,802
1 Claim. (Cl. 20—1.6)



A shopping establishment comprising an area of land, an enclosure bounding said area, an entrance in said enclosure, a plurality of order-cashier stations within said area, an automobile driveway connecting said entrance and said stations and being of such length as to provide space for a multiplicity of automobiles, an order delivery building within said area, intelligence communication means between said stations and said building, said building having a plurality of loading platforms, driveways connecting said stations and said building, each of said last mentioned driveways connecting one of said stations and only one of said platforms, each of said platforms being connected by one of said last mentioned driveways with at least one of said stations, one of said driveways connecting at least two of said order cashier stations with one of said platforms, said driveway narrowing from said stations to the last mentioned one of said platforms, said last mentioned driveways being of sufficient length to provide space for a multiplicity of automobiles travelling from station to platform, storage means for vendible articles at said building, an exit in said enclosure and a driveway connecting said building and said exit, the area of the entrance-to-station driveway being substantially exclusive of the area of all of the other of said driveways and the area of the station-to-building driveways being substantially exclusive of the area of the building-to-exit driveway thus permitting orderly automobile traffic.

2,638,637
BUILDING FRAME CONSTRUCTION
Ernest J. Kump, Jr., Atherton, Calif.
Application July 13, 1946, Serial No. 683,402
7 Claims. (Cl. 20—2)

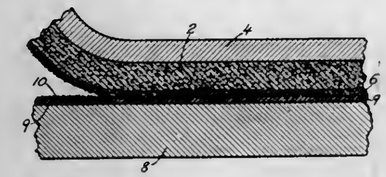
1. Building structure comprising a first pair of elongated angularly disposed frame members in end to end substantially adjoining relationship, a knee for securing said members together, said knee being elongated and formed to provide a continuous channel extending longitudinally thereof having opposed sides and a bottom, ad-

jacent end portions of said members being positioned between said sides and against said bottom, projections secured to said bottom extending into said end portions, and means for securing said end portions between said sides and against said bottom; said knee including a second channel parallel with said first mentioned channel and identical therewith, a second pair of elongated frame members in end to end substantially



adjoining relationship and respectively in side by side relationship with said first pair and having adjacent end portions received in said second channel said end portions of said second pair being between the sides of said second channel and adjacent the bottom of the latter, projections extending from the bottom of said second channel into said last mentioned end portions and means for securing said last mentioned end portions in said second channel.

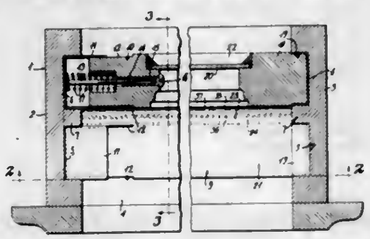
2,638,638
FLOOR COVERING AND FELT BASE MATERIAL
Eugene B. McBride, Philadelphia, Pa., assignor to Sloane-Blabon Corporation, Hutchinson Mills, N. J., a corporation of Delaware
Application April 4, 1950, Serial No. 153,942
4 Claims. (Cl. 20—7)



1. Flexible felt base material comprising a sheet of felt saturated with bituminous material and containing a higher concentration of said saturant adjacent one face of the sheet than the other, the portion of the sheet containing a lesser amount of saturant also containing starch partially filling the pores between the fibers and serving to limit the adhesion of the bituminous material to the fibers, the latter portion being equal in thickness to from about 10% to 40% of the total thickness of the felt.

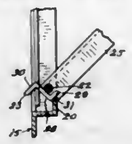
2,638,639
FRICTIONALLY CONTROLLED SLIDING WINDOW SASH
Walton N. Carter, Columbus, Ga.
Application June 9, 1950, Serial No. 167,235
1 Claim. (Cl. 20—52.2)

In a double hung window, in combination, a window frame having opposite guide grooves in the jambs, a sash frame including side members adapted to slide in said guide grooves, said sash frame being of such width that when one side member is fully seated in one of the guide grooves, the other side member is out of the opposite guide groove, said sash frame having a lateral extension on one side the full length of said sash, comprising a box-shaped shoe having parallel side flanges slidably embracing the front and back faces of the adjacent side member, top and bottom flanges slidably lapping the top and bottom of said sash frame, and an end web



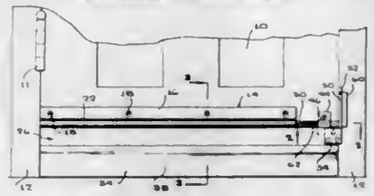
engageable with the bottom of the adjacent guide groove, springs urging said extension outwardly in one direction and reacting to urge the sash frame in the opposite direction, a weatherstrip extending from one of the horizontal members of said window frame, the corresponding member of said sash frames including the adjacent one of said lapping flanges being formed with a groove to receive said weatherstrip.

2,638,640
WINDOW CONSTRUCTION
Bernard T. Ballard, Warren, Ohio, assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application April 4, 1950, Serial No. 153,897
2 Claims. (Cl. 20—53)



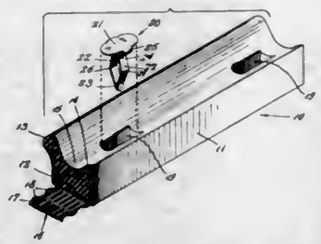
1. A window construction comprising a frame and a sash, said sash being pivotable forwardly about its lower edge portion from a vertical closed position to an approximately horizontal open position, said frame having an upwardly directed supporting member extending along the forward lower edge thereof, the upper edge of said supporting member being engageable with the side walls of said sash when said sash is in said open position, said frame also having inwardly directed protrusions located rearwardly of said supporting member, said sash having an element at each end arranged outwardly of the side walls thereof extending substantially horizontally when said sash is in said open position, said protrusions being so positioned relative to the upper edge of the supporting member that when said sash is in said open position and the side walls of said sash rest on said supporting member, the upper edges of said elements engage the lower edges of said protrusions, said sash also having stop means extending upwardly from said elements and immediately to the rear of said protrusions, when said sash is in said open position, whereby forward sliding movement of said sash is prevented when said sash is in said open position.

2,638,641
DRAFT SEAL
Robert J. Menzies, Detroit, Mich.
Application June 3, 1952, Serial No. 291,457
2 Claims. (Cl. 20—67)



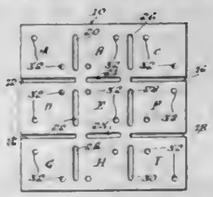
1. A draft seal for doors comprising: an elongated support member extendable longitudinally of and adapted for fixed connection to the bottom edge of a door, said member having a longitudinal recess extending the full length of the support member and formed open at its opposite ends; a body having a longitudinal bead formation rotatably engaged in said recess and extendable into either end of the recess for reversal of the bead formation end for end within the recess; a sealing strip secured to said body, said recess and bead formation providing means effective to mount the sealing strip for pivotal movement toward and away from a door to which the support member is connected, into and out of engagement with a floor surface above which the door is hinged, the body having one end portion projecting beyond one end of the support member and provided with an axial bore and with a recess communicating with an intermediate portion of said bore; a pin extending into said bore and through the last-named recess; a striker arm secured to one end of the pin beyond said end portion of the body to be reversed therewith relative to the support member and to swing with the body upon the support member, said arm being adapted for engagement thereof by a door jamb on movement of the door to a closed position, thus to provide means effective for swinging the sealing strip in the direction of said door; and a spring circumposed about the pin and positioned within the last-named recess, said spring being engaged with the body and being tensioned to yieldably urge the same away from the door on which the support member is mounted.

2,638,642
SEALING STRIP
Louis Spraragen, Bridgeport, Conn., assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn., a corporation of Connecticut
Application October 6, 1948, Serial No. 53,023
7 Claims. (Cl. 20—69)



1. A device for sealing opposed elongate surfaces to each other, comprising a compressible strip of resilient sealing material; a flexible web substantially coextensive with said strip, adhered to one side thereof, said web and strip having exposed elongate sides opposite each other for engagement with the said opposed surfaces, and said strip having a plurality of open recesses spaced apart longitudinally of the strip in the exposed side thereof; and resilient metal fasteners positioned in said recesses and passing through first the strip and then the web and projecting therefrom to fasten the web and strip to a support, said fasteners having exposed heads located in the recesses of the strip and engaging the strip in the bottoms of said recesses, said heads preventing the fasteners from being pulled out of the strip except through the said recesses.

2,638,643
BUILDING BRACKET
Raymond G. Olson, Niles, Ill., assignor of one-third to Kenneth T. Snow, Oak Park, Ill.
Application June 2, 1949, Serial No. 96,642
4 Claims. (Cl. 20—92)

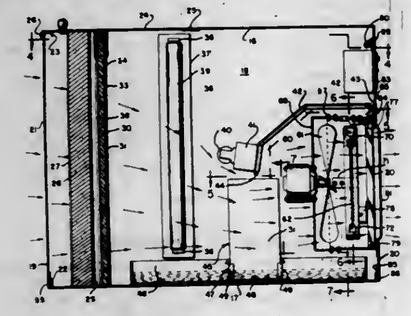


1. A building bracket comprising a substantially flat square metal plate, said plate having a first pair of spaced apart parallel elongated slots dividing said plate in one direction in equal thirds, said slots having their outer ends open to a first edge of said flat square metal plate and their inner ends terminating at a position on said plate one-third the width of the plate, said plate having a second pair of spaced apart parallel elongated slots in alignment with the first pair of elongated slots and having their outer ends open to a second edge of said flat square metal plate opposite the first edge of said plate and their inner ends terminating at a position on said plate one-third the width of the plate, said plate having metal weakening means in alignment with and intermediate the open end elongated slots and substantially covering the central one-third of said plate, and said plate having elongated metal weakening means disposed perpendicularly to said open end slots and said first mentioned intermediately disposed metal weakening means and located in such a manner that there are three pair of aligned metal weakening means dividing said plate in the other direction into equal thirds and one metal weakening means of each pair substantially covering one-third of the distance across the plate whereby the flat square plate is divided by slots and metal weakening means into nine equal size squares.

2,638,644
AIR-CONDITIONING AND HUMIDIFYING APPARATUS
John R. Rauhut, Chicago, Ill.
Application October 25, 1947, Serial No. 782,205
3 Claims. (Cl. 21—74)

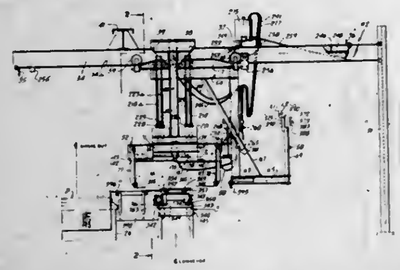
1. A construction of the character described, comprising: a casing having an air inlet and an air outlet; means for inducing passage of air

through said casing; means within said casing defining an opening that is restricted as compared to said air inlet and through which said air must pass; and humidifying means comprising a liquid absorbent element disposed in said



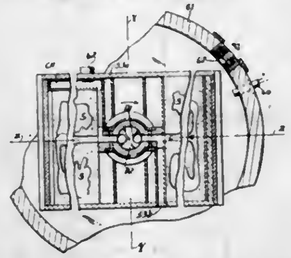
restricted opening, and in the path of said air, and having an end portion communicating with a source of liquid; said absorbent element being in the form of a stationary flat plate disposed edgewise to the direction of air passing thereover.

2,638,645
FOUNDRY DEVICE
Walter J. Olson, Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware
Application November 8, 1949, Serial No. 126,112
5 Claims. (Cl. 22—20)



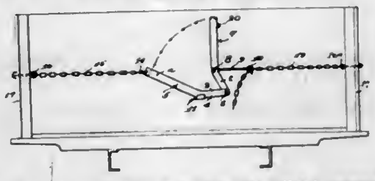
2. In a foundry system for transporting a plurality of stacked molds from a cooling station to a shake-out device, a plurality of rollers disposed side by side for moving a stack of such molds to a first work station, a hoist at said first work station for raising and lowering the molds above the bottom molds in a stack disposed at said first work station, a plurality of rollers affording a path from said first work station to a second work station, means for rotating said last mentioned rollers in timed relation to the raising and lowering of said hoist to thereby move said bottom mold from such a stack in said first station to said second station, a hoist at said second station adapted to be operatively engaged with such a mold disposed at said second station, and means for moving said last named hoist from said second station to said shake-out device when said last named hoist is operatively engaged with such a mold to thereby transport the latter from said second station to said shake-out device.

2,638,646
CENTRIFUGAL CASTING MACHINE
George A. Rubissow, New York, N. Y.
Application April 21, 1947, Serial No. 742,880
5 Claims. (Cl. 22—65)



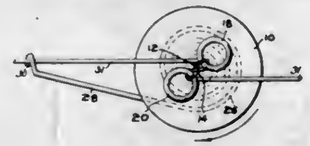
1. A known centrifugal casting machine having at least one mold rotatable around at least one axis of rotation, but not more than two axes of rotation, at least the first of said axes being excentric to said mold, and having a frame with a central pouring gate rotatable about said first axis of rotation, said gate being provided on its top with an entrance orifice for the pouring in of molten material, and provided on its bottom with a distributing channel to feed said molten material therethrough from said gate to said mold, a free empty space provided between said channel and said mold, said known machine in combination with: a substantially large safety overflow passage provided in said free empty space in the direction coinciding with the direction of rotation around said first axis of rotation, the entrance orifice of said passage being substantially large in cross section and adjacent to that part of said mold which is closest to said first axis of rotation, rigid means to maintain said passage in a rigid position in respect to said mold and said channel whereby when an excess of molten material is overflowing said mold, such excess is evacuated throughout said passage.

2,638,647
TIGHTENING DEVICE FOR GRAIN BOXES AND LIKE STRUCTURES
Matthew J. Nielsen, Brookings, S. Dak.
Application September 6, 1950, Serial No. 183,379
1 Claim. (Cl. 24—68)



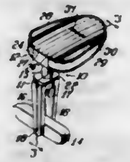
A device of the character described comprising a pair of chain lengths adapted to be connected to the side walls of a grain box or the like, a link bar having its outer end connected to the inner end of one of said chain lengths, an extension arm integrally formed with the inner end of said link bar and extending upwardly at an obtuse angle to said link bar, a lever, an extension arm for said lever formed integrally with the inner end thereof and extending downwardly at an obtuse angle to said lever, said extension arms being pivotally interconnected at their inner ends, a downwardly and outwardly extending bifurcated hook affixed to the underside of the extension arm of said link bar adjacent the juncture point between said link bar and the extension arm thereof, an elongated hook pivotally connected at its inner end to the juncture portion of said lever and its extension arm, and a cross bar affixed to the underside of said lever adjacent the outer end thereof, said link bar, lever and extensions being of open frame construction, and said cross bar adapted to abut against the upper side of said link bar when the lever and link bar are brought together.

2,638,648
TENSIONING DEVICE FOR CABLES, WIRES, ETC.
Donald A. Howard, Worcester, and William N. Matson, Fitchburg, Mass.
Application February 26, 1951, Serial No. 212,743
6 Claims. (Cl. 24—71.2)



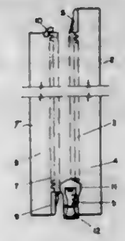
1. A cable tensioning device comprising a plate, a loop thereon, a pair of axially extending elements on the plate, a spring secured to the loop, said elements receiving a cable therebetween substantially diametrically of the plate, said spring extending substantially radially of the plate and capable of rotating the plate and winding the cable on the elements by rotation thereof, and means to secure the extending portion of the spring to the cable.

2,638,649
REVERSIBLE FRONT CUFF LINK
William H. Meeker, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application August 22, 1949, Serial No. 111,640
9 Claims. (Cl. 24—97)



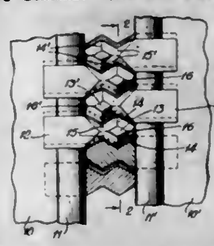
1. A reversible cuff link, including a shank having means at one end thereof for releasably retaining the cuff link in a cuff link opening, a head member secured to the other end of the shank and having parallel sides, a reversible front member pivoted at a point a short distance from one end thereof on said head and having differing ornamental characteristics on its inner and outer faces and provided with a recess having parallel sides paralleling said parallel sides of said head member when the front member is positioned in either of its reversed positions on said head, and releasable, frictional, interengaging elements carried by the head and the front member to hold the latter in either of said positions on said head.

2,638,650
SLIDE FASTENER CONSTRUCTION
Marcus Breier, Amsterdam, N. Y., assignor to Marcus Breier Sons, Inc., Amsterdam, N. Y., a corporation of New York
Application May 9, 1950, Serial No. 160,858
2 Claims. (Cl. 24—205)



1. In fastening devices, the combination of a series of symmetrical teeth mounted upon a tape, a pin at one end of the series, a pin retainer member at the opposite end of the series, a second series of symmetrical teeth mounted upon a second tape to interlock with the first series to form the fastening device, a second pin at one end of the second series, a stop at the opposite end of the second series, and a reversible slide member movably attached to one end of the first tape adapted to move longitudinally of the tape toward the opposite end to interlock the two series of teeth, the first series of symmetrical teeth being reversible to permit doubling of the series to permit the pin to be inserted through the slide member and into the retainer member when the slide member is adjacent the retainer member whereby the teeth of the first series may be interlocked by movement of the slide member.

2,638,651
LOW PERMEABILITY SEPARABLE FASTENER
Louis H. Morin, Bronx, N. Y.
Application September 10, 1945, Serial No. 615,261
15 Claims. (Cl. 24—205.13)



1. In separable fastener stringers having scoops spaced along one edge thereof, said scoops having coupling end portions projecting beyond the edge of the tape of the stringer, each of said scoops being divided along the entire length thereof into right hand and left hand longitudinal side portions, one of said side portions being offset with respect to the other side portion in a direction extending longitudinally of the tape, both side portions of each scoop having on opposed surfaces thereof alined projections and recesses, the projections and recesses of said scoops providing means for coupling opposed stringers to retain the stringers against lateral separation, and the offsetting of the side por-

tions of said scoops providing coupling walls on upper and lower surfaces of the scoops centrally and longitudinally of the full length thereof, said coupling walls being adapted to retain coupled scoops against transverse separation.

2,638,652

END CONNECTION FOR BRACELETS AND THE LIKE

Hermann Ruf, Wanaque, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey

Application May 25, 1950, Serial No. 164,105
4 Claims. (Cl. 24—265)



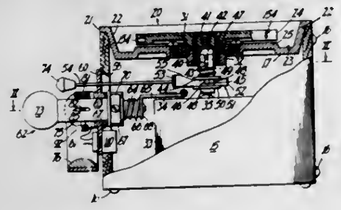
1. An end connector for a bracelet or the like, comprising a hollow casing having a top, sides, and a base, and open at one end to provide an inlet for a bracelet end, the base having an opening adjacent the other end, a cover hinged to the top and movable to close said base opening, and a U-shaped spring positioned in said casing with spaced sides extending towards the bracelet end inlet and of a size to be received in the base opening, said sides having prongs adapted to engage a bracelet end, said spring being slidable within the case to wedge between the base and the cover upon movement towards the bracelet end inlet and said cover having means pressing said spring towards said bracelet end inlet when said cover is moved to close the base opening.

2,638,653

DEVICE FOR WORKING IN CERAMICS

Leonard Adams, Buffalo, N. Y.

Application June 27, 1951, Serial No. 233,715
17 Claims. (Cl. 25—22)



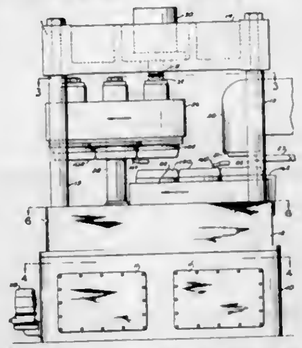
1. A device for working in ceramics comprising a casing, a stationary top plate mounted upon the casing, a potter's wheel rotatably supported by the top plate, a variable speed torque converter mounted within the casing and having a drive shaft and a separate control shaft, a reciprocating shaft for the wheel, a clutch associated with the wheel shaft, means for actuating the clutch to connect and disconnect the wheel to and from the converter, means connected to the control shaft for controlling the speed of the converter, the top plate having a number of equidistantly spaced threaded apertures, a number of posts engageable with the threaded apertures for extension in a direction normal to the top plate, and means carried by the posts for attaching various working tools thereto.

2,638,654

AUTOMATIC WARE PRESSING MACHINE

Jacob Jordan, New Castle, Pa., assignor to Shenango Pottery Company, New Castle, Pa., a corporation of Pennsylvania

Application January 18, 1951, Serial No. 206,684
10 Claims. (Cl. 25—23)



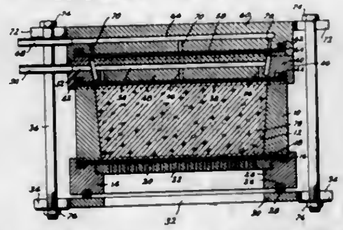
1. In a ware presser, a first moisture absorbent open-faced die, a second moisture absorbent open-faced die adapted to mate with said first die when said dies are in axially aligned position, means to deposit moist plastic material on said first die when said dies are in axial misalignment, means to axially align said dies, means to axially compress said dies together while they are axially aligned thereby to form said moist plastic material and to remove excess moisture therefrom, means to axially separate said dies, means to decrease adhesion of said plastic material to said first die at the initiation of said axial separation whereby said plastic material will temporarily adhere to said second die, means to axially misalign said dies, conveyer means passing under said second die and facing said second die in one of its axially misaligned positions, and means to decrease adhesion of said plastic material to said second die while said second die is in said one of its axially misaligned positions thereby to cause separation of said plastic material from said second die and transposition of said plastic material away from said dies by said conveyer.

2,638,655

METHOD OF PRODUCING CEMENTITIOUS BODIES

Jacob J. Creskoff, Washington, D. C., assignor to Thermo-Fluid Corporation, a corporation of Pennsylvania

Application September 22, 1950, Serial No. 186,255
14 Claims. (Cl. 25—155)



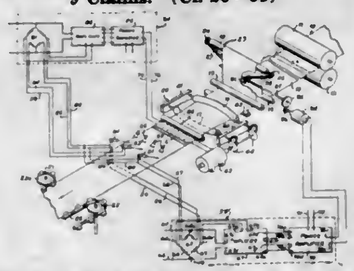
1. A method of producing a cementitious body having a low water:cement ratio comprising depositing a composition containing aggregate water, and Portland cement in a mold, subjecting said composition to a pressure exceeding one atmosphere, and before said composition acquires an initial set, modifying the water content of said composition to produce a water:cement ratio less than 0.6 by weight by passing a stream of compressible fluid having a temperature exceeding 125° F. into one portion of the mold, substantially uniformly through said composition, discharging said fluid from another portion of the mold, and separating said composition and mold after it has acquired an initial set.

2,638,656

AUTOMATIC WEFT STRAIGHTENER CONTROL AND METHOD

Richard H. Tuttle, Leaksville, John T. MacIsaac, Jr., Spray, and Fred W. Sturtevant, Leaksville, N. C., assignors to Marshall Field and Company, Chicago, Ill., a corporation of Illinois

Application September 15, 1950, Serial No. 184,982
9 Claims. (Cl. 26—51)



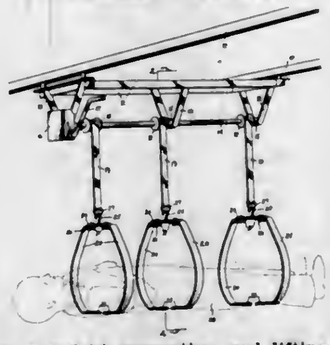
5. That method of handling cloth to correct the angulation of the weft with relation to the selvages thereof which comprises forming in the cloth a plurality of weftwise extending relatively narrow spaced light absorbing and reemitting elements between which non-light absorbing and reemitting areas are formed and moving the cloth past a source of light and past elements responsive to said reemitted light for changing the angular position of the weft with relation to the selvages of the cloth.

2,638,657

WEIGHT SUPPORT AND LIFTING DEVICE

Joy P. Arnold, Des Moines, Iowa

Application December 29, 1949, Serial No. 135,657
11 Claims. (Cl. 27—28)



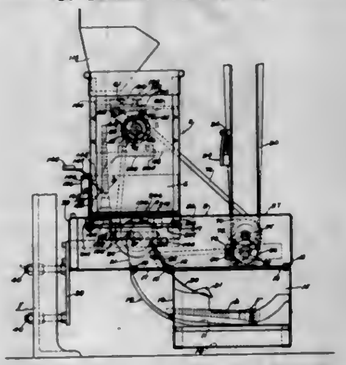
1. In a weight supporting and lifting device for use by morticians in the handling of corpses, a lifting arm comprising, a pair of complementary like bar members each having its respective end portions bent at an angle and in the same direction and substantially parallel to each other; said bar members disposed opposite each other to provide a stirrup-like appearance, a slot provided in the upper bent portion of each of said bar members, a bar; each of said first mentioned bar members detachably secured by means of said slots to said bar and said bar secured to a means by which it can be raised and lowered.

2,638,658

BOBBIN STRIPPER

William V. Goodhue and Robert E. Morton, Warwick, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts

Application May 3, 1951, Serial No. 224,382
30 Claims. (Cl. 28—19)



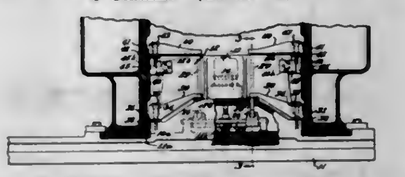
1. A bobbin-stripper for removing the residue of yarn from spent bobbins comprising means for receiving and holding the bobbins, means for withdrawing the yarn from a bobbin to strip it, means for testing each bobbin to detect whether the yarn has been completely removed therefrom, and means to segregate bobbins on which any yarn remains after a stripping operation.

2,638,659

RAIL CLAMP FOR MACHINE TOOLS

John M. Walter, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a corporation of Ohio

Application September 29, 1948, Serial No. 51,737
6 Claims. (Cl. 29—1)



4. In a machine tool having columns and a rail arranged to travel thereon by means of cooperating ways, a first pair of clamps adjacent the bottom and at the rear of said rail for clamping said rail with respect to said columns, each clamp comprsing a wedge block between one of said columns and the rail, means secured to said rail and engaging said blocks to constrain said blocks

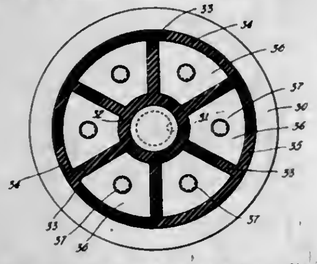
to move with said rail, a lever secured to each of said blocks and having a portion engageable with one of said columns, said wedge blocks adapted to exert a wedging action between said columns and said rail upon actuation of said levers, and an additional pair of clamps adjacent the top and at the front of said rail to secure said rail in cooperation with said first pair of clamps.

2,638,660

ELECTRICAL INSULATOR

Karel M. Van Gessel, Scarsdale, N. Y., assignor, by mesne assignments, to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y., a corporation of Delaware

Application April 3, 1945, Serial No. 586,283
5 Claims. (Cl. 29—25.15)



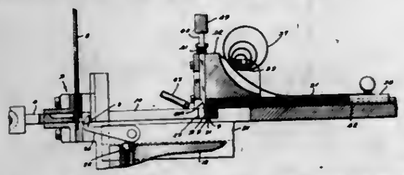
1. In the manufacture of electric discharge tubes, the method of manufacturing a base therefor provided with a plurality of electrically conductive elements therein separated from one another by intermediate electrically insulating zones, comprising the steps of forming a depression in a metallic plate member, filling the depression with a powdered vitreous material, heating the powdered vitreous material to mold the vitreous material in the depression of said metallic plate member, and removing the bottom of the depressed portion of said metallic plate member to thereby provide electrically conductive elements in said base separated by a zone of electrically insulating material.

2,638,661

COMMUTATOR FORMING AND ASSEMBLING MACHINE

Karl W. Klinksiek, Richmond Heights, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application June 24, 1948, Serial No. 34,884
13 Claims. (Cl. 29—33)



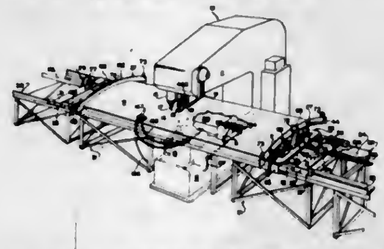
1. A machine for producing commutator segment assemblies consisting of alternate conducting and insulating segments comprising means for punching the conducting segments from suitable bar stock; a fixture provided with a curved stack way for receiving said segments; means for moving said segments edgewise into said stack way and disposed radial thereto; means for holding a stack of preformed insulating segments; means for transferring an insulating segment from said stack and inserting it edgewise in said curved stack way immediately after the insertion of each conducting segment therein; means for operating said punching and insulation inserting means in timed sequence; and means for stopping said machine after a predetermined number of conducting and insulating segments have been assembled in said curved stack way.

2,638,662

WORK HOLDING AND ADVANCING DEVICE

Gordon P. Rothwell, La Crescenta, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application March 2, 1950, Serial No. 147,227
22 Claims. (Cl. 29—34)



1. A work supporting and advancing device comprising spaced tracks, carriages spaced longitudinally of the tracks and movable therealong, means on the carriages for supporting the work, means for advancing the carriages axially along the tracks including an axially movable and turnable member extending axially of the tracks, means for connecting the member with the carriages to be axially movable therewith and to be rotatable with respect to the carriages, and means for moving the member axially to advance the carriages, and means at the carriages operated by rotation of the member for advancing the work transversely in either direction.

2,638,663

METHOD OF MAKING TURBINE BLADES

Kenneth M. Bartlett and Nicholas J. Connavino, South Euclid, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application October 23, 1948, Serial No. 56,184
2 Claims. (Cl. 29—156.8)



1. The method of producing a blade for turbines and the like which comprises, providing elongated bar stock having a thick longitudinal central portion, thin longitudinal leading and trailing elges, a concave front face and a convex back face, cutting said bar stock into pieces of slightly greater length than the length of the desired blade, trimming off the leading and trailing longitudinal edges of one end of the thus cut length along concave paths from said edges to the thick central portion and thence along lines parallel with said edges to produce a generally rectangular tang on said one end of reduced width composed only of the thick central portion of the bar stock and merging into said leading and trailing longitudinal edges along smoothly rounded edges, flattening said tang to form a section of uniform thickness, heating the tang to forging temperature, upsetting the heated tang to reduce the longitudinal length thereof while increasing the thickness thereof to form a head blended into the concave and convex faces through free bend fillets along the juncture of said head and faces, and coining said fillets into rounded concave shapes which will not interfere with the airfoil efficiency of said faces to provide an anchoring root portion of less width and greater thickness than the bar stock and blended into both the faces and the edges of the bar stock along smooth rounded concave surfaces.

2,638,664

METHOD OF MAKING WARP BOBBINS

William H. Maxson, Jackson, Mich.

Application April 6, 1949, Serial No. 85,885
1 Claim. (Cl. 29—170)



The method of making a warp bobbin comprising steps of cutting thin wall metal tubing to length to provide a blank, said blank being of uniform cross-sectional size and configuration from end to end, nosing in one end of said blank while flaring the opposite end, inserting a preformed bearing from the flared end of said blank to a point adjacent said nosed in end with said bearing having a sliding fit with the interior wall of the blank, inserting a second pre-formed bearing into said flared end to position the same within the confines thereof, and deforming the exterior surface of said blank at the ends of said bearings to hold the same in position within said blank and reaming at least one of said bearings to provide a fine driving fit to complete the bobbin assembly.

2,638,665

METHOD OF WELDING STAINLESS STEEL

Prentiss S. Viles, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application October 23, 1950, Serial No. 191,725
6 Claims. (Cl. 29—351)

1. A method of welding a chrome-nickel stainless steel which includes the steps of applying a mixture of a conventional welding flux containing elementary sulfur in an amount in the range between 0.25% and 25% by weight, to two adjacent boundaries of bodies of said steel and welding said adjacent boundaries in the presence of said mixture.

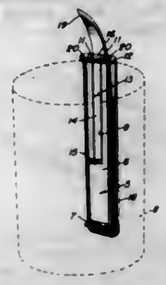
2,638,666

CAN OPENER

Edward Mayo and Henry F. Goon, Greenville, Miss.

Application October 16, 1950, Serial No. 190,368
1 Claim. (Cl. 30—10)

A can opener comprising a main can supporting bracket including a strap metal bar adapted for positioning vertically at one side of a can, a lug at the lower end of the bar underlying the can, said bar having a vertical slot at its upper end forming a pair of upstanding parallel strips, aligned eyes at the upper ends of the strips, a pivot pin positioned in said eyes, a second can supporting bracket formed of a strap metal bar having an eye at its upper end swingably supported on the pin between said first named eyes for swinging movement of the second bracket inwardly and outwardly in said slot, a can support-



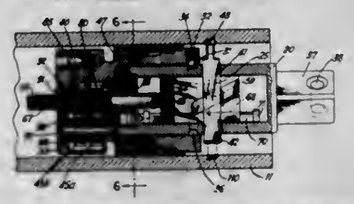
ing lug on the lower end of said second bracket, a strap metal lever having a pair of eyes at its side adjacent one end also pivoted on said pin outwardly of said first named eyes for vertical swinging movement, and a prong at one end of the lever projecting upwardly above the bracket and curved inwardly to overlie the top of a can supported on either of said lugs.

2,638,667

SELF-SUPPORTING AUTOMATICALLY OPERABLE TUBE CUTTER

Clarence E. Anderson, Wadsworth, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

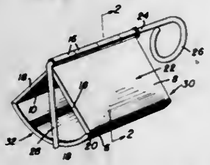
Application February 12, 1952, Serial No. 271,259
20 Claims. (Cl. 30—107)



1. A tube cutter comprising, in combination, a support having means for anchoring it in a stationary position relative to a tube; carrier means supported by the support and rotatable with respect thereto; cutter means carried by said carrier means and rotatable therewith in substantially a plane determined by the position of support; an operator supported by said carrier means and movable relative thereto, said operator being operatively connected to said cutter means to advance and retract the same responsive to such relative movement of the operator; differential gearing means including a driving element rotatably supported by said carrier means, a driven element connected to said operator, and connecting means for said elements carried by said support; and releasable latch means operable to connect said driving element to said carrier means for unitary rotation therewith to operate said driven element and operator to advance said cutter means to effect a cut in a tube; said latch means being operable by said operator, after a pre-set depth of cut has been effected, to disconnect said driving element from

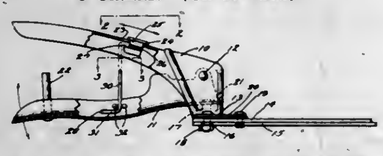
said carrier means; said driven element, upon continued rotation of said carrier means, thereupon operating said operator to retract said cutter means.

2,638,668
SCOOPING AND MEASURING UTENSIL
Walter R. Brevetti, Highland, N. Y.
Application May 7, 1951, Serial No. 224,905
1 Claim. (Cl. 30—115)



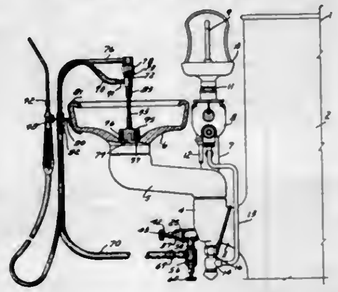
A utensil of the class described comprising an open ended scoop of segmental cross-sectional form embodying a pair of converging complemental walls provided with aligned knuckles along their meeting converging edges and a curvate central wall interconnecting the remaining edges, all of said walls having their essential internal and external surfaces free of projections, said walls being provided at corresponding ends with coplanar laterally disposed flanges circumscribing the corresponding open end of the scoop, the inner marginal edge portions of said flanges cooperating in defining a segmental intake opening, the corresponding ends of said walls at the opposite end of the scoop being without flanges and defining a segmental discharge opening which is of a size greater than the size of said first-named segmental opening, a rod member passing through and interconnecting the knuckles and provided at the end adjacent the discharge opening of the scoop with a finger ring and provided at its opposite end with a right angularly disposed shearing and levelling off blade, the latter having wiping contact with the exterior surfaces of said flanges.

2,638,669
LATCH FOR GRASS SHEARS
Otho G. Steede, Alliance, Ohio, assignor to The Lewis Engineering & Manufacturing Company, Alliance, Ohio, a corporation of Ohio
Application November 6, 1950, Serial No. 194,299
3 Claims. (Cl. 30—262)



1. A latch for a grass shear having a pair of handles pivoted to one another and including portions extending outwardly from the said pivots, one of the said portions having a longitudinally extending slot therein and the other having a pair of oppositely disposed openings therein and oppositely disposed pairs of spaced bosses adjacent thereto, said latch comprising a latch member slidably positioned in the said slot and a bail engaged in the said oppositely disposed openings and secured between said pairs of bosses, a portion of the said bail lying in proximity to a portion of the said latch when the said handles are moved to adjacent position, the said latch member having a projecting portion registrable with said bail to latch the said handles to one another when the latch portion is moved into engagement with said bail.

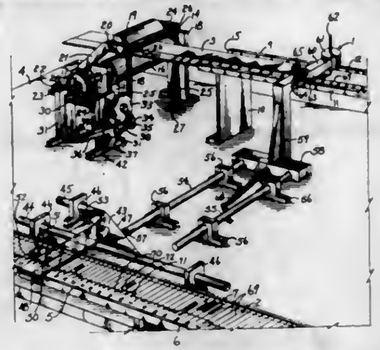
2,638,670
DENTAL EQUIPMENT STAND
Robert S. Wyne, Kansas City, Mo.
Application January 6, 1951, Serial No. 204,708
7 Claims. (Cl. 32—22)



1. In dental apparatus having a hollow pedestal with a cuspidor, saliva ejector and water supply and discharge connections, said cuspidor having a drain communicating with the discharge connections, said pedestal having a valve chamber and inlet and outlet passages therein communicating with said valve chamber, said outlet passage having valved connection with the saliva ejector, a valve body mounted on the pedestal and having a bore coaxial with said inlet passage, a valve stem extending through the valve body and into the valve chamber, means on said stem for controlling flow of water from the inlet passage into the valve chamber, means in the valve body engaging the valve stem remotely of the pedestal for preventing leakage of water around said stem, a valve controlled flow line connected to the valve body and communicating with the bore therein for supplying a high volume water takeoff therefrom, and a blood ejector operatively connected with the flow line.

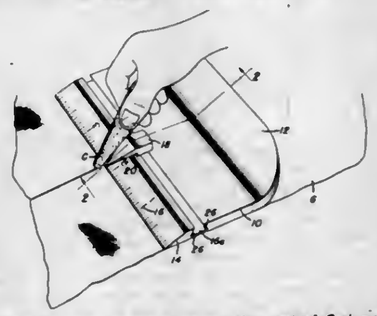
2,638,671
APPARATUS FOR TRANSLATING AND PLOTTING LOG CHARTS FROM DRILLING TIME CHARTS
King Ramsey, Odessa, Tex., assignor to The Geolograph Company, Inc., Oklahoma City, Okla., a corporation of Oklahoma
Application June 14, 1951, Serial No. 231,484
6 Claims. (Cl. 33—1)

1. An apparatus for translating information from a well drilling time chart having constant time plotted against irregular depth to a log chart having constant depth plotted against irregular time comprising, a support, a track on the support for movably receiving a well drilling time chart, a second track spaced from and parallel to the first named track for movably receiving a log chart, a marking stylus, means movably mounted on the support for supporting the marking stylus for movement transversely of the log chart, resilient means urging the marking stylus support toward initial position thereof, means engaging the log chart for advancing same in increments of length corresponding to indicia of a unit of well depth, manually actuated means for operating the log chart advancing means, a reference stylus movable longitudinally of the well drilling time chart, cooperating means on the reference stylus and marking stylus support for proportionately moving the marking stylus support transversely of the log chart while the reference stylus is moved longitudinally of the well



drilling time chart a distance corresponding to the elapsed time for drilling a unit depth, and means on the reference stylus and frictionally engageable with the well drilling time chart for moving same during return movement of the reference stylus thereof to initial position.

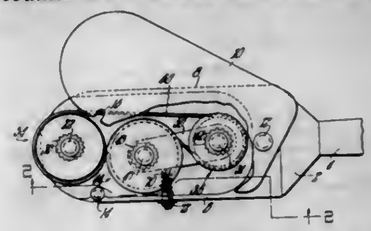
2,638,672
HEM GUIDE
Leonard G. Johnson, Fergus Falls, Minn.
Application January 8, 1951, Serial No. 204,901
1 Claim. (Cl. 33—2)



A hem guide comprising an elongated flat panel having an upturned edge forming a finger grip, said panel having a longitudinal dovetail groove and a scale thereon alongside of said groove, a traveling member overlying the groove and resting upon the upper surface of the panel, said member including a pointer overlying the scale, and a concavo-convexed spring positioned in said groove and secured to the under surface of said member, the convex surface of said spring yieldingly bearing against the dovetail edges of said groove and urging the member against the panel.

2,638,673
RULING AND STRIPING DEVICE
Christian E. Burckel, Yonkers, N. Y.
Application March 7, 1952, Serial No. 275,375
4 Claims. (Cl. 33—36)

1. A lining device of the class described comprising in combination, a housing having an opening in an outer end thereof, an upper outer wheel and a lower drive wheel mounted for rotation in said housing with a portion of said upper wheel extending through said opening, an upper inking wheel and a lower driven wheel mounted for rotation in said housing with said lower driving and driven wheels in contact, an idler wheel mounted for rotation in said housing, and a flexible band-like marking element having an inner side around said outer upper and said idler wheels and an outer character carrying side in contact with said inking wheel.

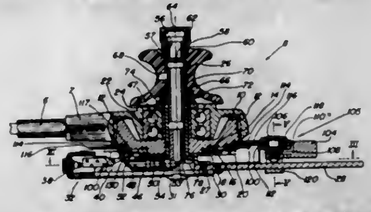


2,638,674
DRAWING INSTRUMENT
Charles J. Worth, New York, N. Y.
Application June 4, 1948, Serial No. 31,037
10 Claims. (Cl. 33—77)



1. In combination with a drawing instrument and a drawing platform, a pivot assembly having a pivot member attached to said drawing instrument having a built-up portion of a plurality of concentric recesses and projections capable of mating with pivot bases, said pivot bases capable of being positioned without the periphery of said drawing platform and detachably fixed thereto and retained by a downwardly extending piercing member.

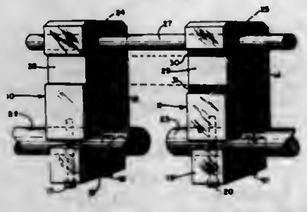
2,638,675
DRAFTING MACHINE
Carl W. Keuffel, Bernardsville, and Allister L. Baker, Jersey City, N. J., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application March 25, 1947, Serial No. 737,050
9 Claims. (Cl. 33—79)



3. In a drafting machine for use on a drafting board, a parallel motion device, a drafting head comprising a member maintained in orientation by said parallel motion device, a protractor scale rotatable with respect to said member maintained in orientation, a protractor arm for carrying at least one straightedge rotatable with respect to

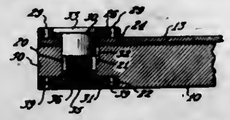
said protractor scale, a reticle provided with an index mark carried by said protractor arm, optical means including a lens carried by said protractor arm imaging a portion of said protractor scale in magnified form onto said reticle and an eyepiece lens for viewing said protractor scale superimposed on said index mark to determine the position of said protractor arm with respect to said protractor scale.

2,638,676
SHAFT ALIGNMENT DEVICE
John E. Callahan, Medford, Mass.
Application April 21, 1949, Serial No. 88,873
6 Claims. (Cl. 33—84)
(Granted under Title 35, U. S. Code (1952), sec. 266)



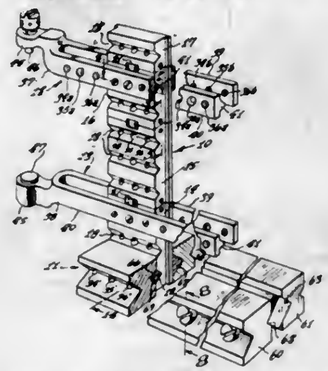
1. Apparatus for aligning a first shaft and a second shaft to be coupled comprising, first and second substantially similar members, each of said members comprising two separable portions, said separable portions of said first member being adapted for assembly on said first shaft, said separable portions of said second member being adapted for assembly on said second shaft, said first and second members being adapted for assembly in axially close position to each other so that the degree of alignment of said shafts and said members can be observed, each of said members having a rectangular indentation on matching sides thereof, the long sides of said rectangular indentations being parallel to the axes of the respective shafts upon assembly of said separable portions thereon, each of said members having openings therethrough remotely disposed from the point of separation of said portions, said openings being in register upon alignment of said members, and a pin of sectional dimension such that said pin may be slidably inserted in said openings.

2,638,677
SINE BAR
Albert H. Sheriff, Covington, Ky.
Application April 21, 1950, Serial No. 157,298
3 Claims. (Cl. 33—115)



1. In a sine bar comprising a block and a blade, a pivoting and clamping assembly therefor comprising a thin washer between said block and blade in the pivoting area, a threaded stud and a nut, said blade and block having a hole to accommodate snugly said stud, key means for preventing relative rotation between said stud and said block, said block having a counterbore, said nut having a diameter and thickness to fit snugly and flush within said counterbore, and a knurled disc having a hole to accommodate snugly said stud, said disc having a counterbore and said stud having a flange of a diameter and thickness to seat snugly and flush within said last named counterbore, said disc bearing frictionally against said blade, and said nut bearing against said block.

2,638,678
VARIABLE PRECISION MEASURING INSTRUMENT
Peter Darabaris, Clifton, N. J.
Application April 30, 1952, Serial No. 285,264
10 Claims. (Cl. 33—164)

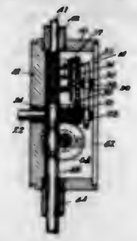


1. A measuring instrument comprising a column composed of a plurality of upright blocks of the same rectangular horizontal cross-section mounted one upon the other, each of the said blocks having at least one horizontal groove in the vertical face thereof, said grooves all having the same cross-sectional conformation, means for interlocking said blocks, a pair of micrometer arms, one of said arms having a micrometer anvil thereon, the other of said arms having a micrometer screw thereon, each of said arms having a longitudinal ridge extending from the back thereof, said ridge having the same cross-sectional conformation and area as said grooves, said ridges hence being slidable in any of said grooves, said arms being adapted to be mounted on said column with said ridges registering in any two of said grooves, said arms being adapted to be positioned when mounted on said column with said one of said arms below said other of said arms and with said anvil and screw in vertical alignment, and means for locking said arms on said column in any of a plurality of spaced horizontal positions.

2,638,679
MEASURING INSTRUMENT
Donald McSkimmon, Cranston, R. I.
Application February 4, 1950, Serial No. 142,469
9 Claims. (Cl. 33—172)

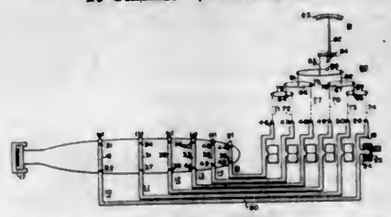
1. A measuring instrument of the class described comprising a case having a tubular portion closed by spaced-apart end walls, a dial secured adjacent an outer side of one of the end walls, a worm mounted through the dial covered end wall for rotative movement axially of the case, said worm having a pointer directly secured at an outer end thereof to register with the dial, the opposite end of the worm being received in a bearing member adjustable in a direction inwardly and axially of the worm to take up end

play of the latter member, reciprocating rack and gear mechanism operatively connected to the worm to impart rotative movement in one direction, an externally projecting plunger for actu-



ating the reciprocating rack and gear mechanism, torque producing means connected to the worm for exerting a rotative force on the worm in opposed relationship to the force exerted by the rack and gear mechanism.

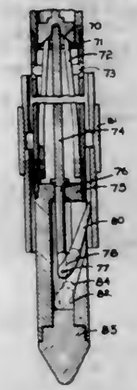
2,638,680
AVERAGING PROTRACTOR FOR MATCHING AIRCRAFT PROPELLER BLADES
John G. Baker, Evansville, Wis., assignor to Baker Manufacturing Company, Evansville, Wis., a company of Wisconsin
Application May 7, 1947, Serial No. 746,468
10 Claims. (Cl. 33—174)



7. Apparatus for determining the hub angle setting of a propeller blade for minimum operational vibration comprising, a group of protractor elements rotatively mounted in predetermined relation for independent movement, all of which are simultaneously operable and each of which includes a portion disposed to contact the blade at a predetermined radius and each of which includes motion transmitting portions which transmit the pitch angle at the radius as determined by the angular positions assumed by the protractor elements to an indicating location substantially independent of small movements of the blade other than those affecting pitch angle, an indicator device, and a lever mechanism connected between the motion transmitting portions of the protractor elements and the indicating device for summing the transmitted motion and operating the indicator device in accordance with summation of the transmitted motions.

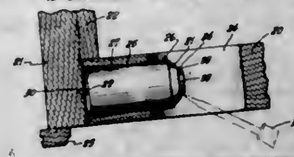
2,638,681
TUBING AND CASING CALIPER
Myron M. Kinley and John C. Kinley, Houston, Tex.
Application November 12, 1947, Serial No. 785,212
5 Claims. (Cl. 33—174)

3. A device for locating irregularities on the interior of well pipe comprising a housing, contact fingers mounted within said housing, an opening for each of said fingers in said housing to permit said fingers to move laterally therethrough, each of said contact fingers being fixed to a leaf spring mounted at one end on the inner surface of said housing, a metering head having an internal conical surface, each leaf spring having its free end in engagement with said conical surface, a resilient means urging said metering head axially against said free end of said fingers, the strength of each leaf spring being greater than the strength of said resilient means so that said contact fingers are forced outwardly of said housing when adjacent a pit in the well pipe, whereby the free end of the leaf spring extend-



ed furthest outwardly urges said metering head axially in opposition to said resilient means, a shaft connected to said metering head extending downwardly therefrom, a tripping finger pivotally mounted on a shear pin on the end of said shaft, an outlet in said housing, said tripping finger normally abutting against said housing during lowering of the device into the pipe and being moveable through said outlet so that upon upward movement of said device said tripping finger engages a pipe coupling or the like in said well pipe to sever said shear pin and release said tripping finger for activation of said metering head and contact fingers.

2,638,682
MARKING TOOL FOR LOCATING STRIKE PLATES
Fred J. Russell, Beverly Hills, Calif., assignor, by mesne assignments, to Loyola University Foundation, Los Angeles, Calif., a nonprofit corporation of California
Application April 3, 1950, Serial No. 153,615
2 Claims. (Cl. 33—197)



1. A method of mounting respective parts of bore-in lock hardware respectively in a door and frame therefor by employment of a marking tool of selected length and diameter comprising boring a side hole in the door at a point spaced from a free swinging edge thereof, boring a bore hole at the same level in the free swinging edge from the edge to meet the side hole, selecting a marking tool of diameter providing a snug sliding fit

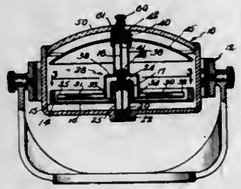
in the bore hole and inserting said marking tool from the edge into the bore hole to a position wherein one end is exposed to the side hole and the other end is within the surface of the edge, closing the door to a stop position in the frame and there driving said marking tool outwardly to effect a score on the frame, then with the door withdrawn from the frame boring a bolt hole in the frame in a location which corresponds to the score for locating a strike plate accurately in position.

2,638,683

MAGNETIC COMPASS

John B. Reece, Dedham, and John P. Putnam, Boston, Mass., assignors to The Reece Corporation, Boston, Mass., a corporation of Massachusetts

Application October 27, 1948, Serial No. 56,684
4 Claims. (Cl. 33—222)



1. In a magnetic compass and in combination, said compass having support means and a north seeking magnet element pivotally connected to said support means for rotation about a vertical axis, a damping element for said magnet element, said damping element comprising non-magnetic electro-conductive material and being pivotally mounted to rotate substantially coaxially relative to said magnet element and substantially freely relative both to said magnet element and to said support means thereby substantially retaining its directional orientation when said compass is subjected to disturbing forces, said damping element being in such proximity to said magnet element that eddy currents are generated exerting an opposite rotational force between said damping element and said magnet element when said magnet element rotates relative to said damping element, said force effectively damping angular deflections of said magnet element.

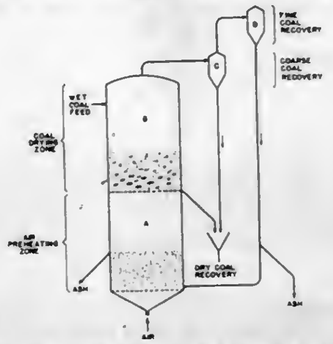
2,638,684

PROCESS FOR HEAT-TREATING COMBUSTIBLE SOLIDS

Walfred W. Jukkola, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application April 7, 1950, Serial No. 154,473
8 Claims. (Cl. 34—9)

6. The continuous process for drying finely-divided combustible solids which comprises the steps of establishing and maintaining a bed of such solids in a drying zone by feeding such solids thereto and removing them therefrom, maintaining solids of the bed as a turbulently mobilized fluidized bed by passing therethrough, at a velocity sufficient to both entrain fine solids and fluidize larger solids but insufficient to entrain such larger solids, an uprising stream of fluidizing gas initially having a sensible heat content sufficient to maintain solids of the bed at solids drying temperatures, drying solids in the bed, discharging gases containing entrained fine solids from the zone whereby dried fine solids are separated from larger solids and removed from the zone, and discharging dried larger solids from the zone; characterized in that the drying zone is maintained at solids drying temperatures by establishing and maintaining in a combustion zone a bed of finely-divided non-combustible solids, maintaining such solids as a turbulently mobilized fluidized bed by passing therethrough an uprising stream of free oxygen bearing gas at



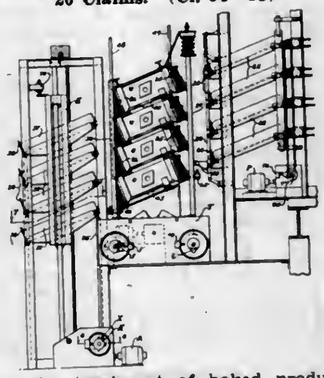
fluidizing velocities, supplying dried fine combustible solids to the fluidized bed to pass therethrough, combusting such fine solids during their passage through the fluidized bed to produce a sensible-heat carrying gas, and supplying such heated carrying gas uprisingly through the solids of the drying zone to maintain drying temperatures therein as well as to serve as a quantity of the fluidizing gas supplied to the drying zone.

2,638,685

METHOD AND APPARATUS FOR CONDITIONING BAKED PRODUCTS

Montague H. Duval, Westport, Conn.

Application May 24, 1948, Serial No. 28,878
20 Claims. (Cl. 34—15)



1. In the treatment of baked products for cooling and conditioning purposes continuously in a mechanical line, the continuous method which comprises separating the products at a single receiving point into groups of units and successively releasing the groups for distribution, then distributing the groups successively by transferring each group from the separating point, in rotation, to one of a plurality of independent paths of a tempering zone, carrying the groups through said zone along said paths and

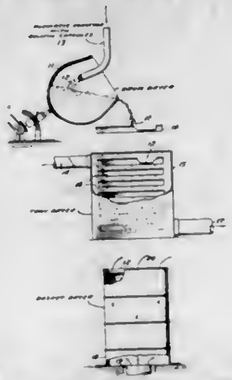
permitting moisture to travel to the surfaces of the units and reduce the temperature at said surfaces as the units travel through the zone, whereby the surfaces and adjacent surface zones of the baked units are softened and made moist and of lower temperature than their interiors defined by said zones, then transferring the tempered groups to a cooling zone and cooling the groups by vacuum treatment, the vacuum created in said zone being in excess of 28 inches of mercury, releasing the said vacuum initially at a relatively slow rate until the pressure has dropped to about between 20 to 26 inches of mercury, thereafter releasing the vacuum at a substantially unrestricted rate whereby pressure is permitted to build up within the products without undue stress being exerted upon the surfaces thereof, and discharging the products from the vacuum zone.

2,638,686

DRYING GELATIN CAPSULES

Frank Edwin Stirn, Evans Park, Pearl River, and Arthur Sinclair Taylor, Spring Valley, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application November 21, 1950, Serial No. 196,746
7 Claims. (Cl. 34—17)



1. The method of drying soft gelatin capsules which comprises tumbling soft gelatin capsules until evenly formed and partially dried, transferring to single layer trays, spreading the capsules in a single layer therein, drying until sufficiently firm so as not to deform when packed in multi-layer packing, transferring to multi-layer baskets, and drying until hard.

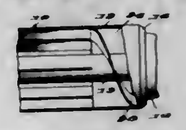
2,638,687

APPARATUS FOR COOLING AND DEHYDRATING HOT PULPY SOLIDS

Daniel B. Vincent, Tampa, Fla., assignor to Dan B. Vincent, Inc., Tampa, Fla., a corporation of Florida

Original application November 27, 1945, Serial No. 631,072. Divided and this application March 29, 1949, Serial No. 84,184
4 Claims. (Cl. 34—136)

1. An apparatus for cooling and dehydrating hot solids comprising a rotatably mounted drum member having inner and outer cylindrical shells, said inner shell having a substantial surface area concentric with the outer shell whereby there is defined an annular space therebetween, inlet means for feeding hot solids into one end of said drum member, outlet means for discharging cooler treated solids from the opposite end of said drum member, a plurality of shelf plates secured to the inner surface of said outer shell longitudinally thereof and extending inwardly toward said inner shell and terminating in inner edges spaced from said inner shell, a plurality of shelf plates secured to the outer surface of said inner shell longitudinally thereof and extending outwardly between said first named plate members in overlapping relation therewith and terminating in outer edges spaced from said outer shell,



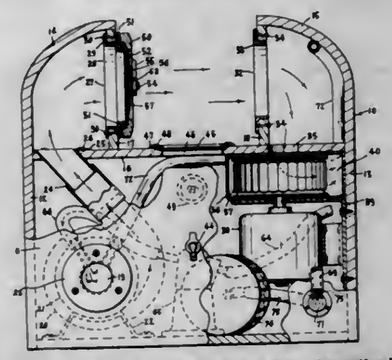
a spiral feed band extending inwardly from the inner surface of the outer shell into proximity with the outer edges of the shelf plates on the inner shell, the last said shelf plates being attached to the inner margin of the spiral feed band, said drum member being inclined downwardly from the inlet to the outlet ends whereby material introduced into said outer drum will be progressed therethrough with a cascading, sliding and slipping movement over the surfaces of the inner and outer shells and the shelf plates, and means for subjecting the material to a current of air as it moves through said outer drum member to cool and dehydrate it.

2,638,688

FILTER TESTING DEVICE

Charles L. Hazelton, North Woodstock, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

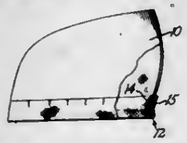
Application September 23, 1948, Serial No. 50,839
9 Claims. (Cl. 35—13)



5. In a device of the character described, a hollow base having an opening therein, a pair of spaced hollow uprights on said base having their interiors communicating with the interior of the base, said uprights each having an opening in its inner affronting surface, clamping means for securing a filter over the opening in one of said uprights, blower means communicating with the upright carrying the filter for causing an air stream to flow through the opening in the base into the interior of said upright, and subsequently through the filter, a second blower means communicating

with the other upright for drawing the air stream after its penetration of the filter through the opening in the second upright and into the interior thereof, means located adjacent said first upright for introducing visible filterable matter into said air stream, and illuminating means directed upon the air stream as it passes from the filter to the second upright for illuminating the filterable matter in the air stream, said illuminating means comprising an electrical source of light located within the base, and a window located in the top of the base between the uprights and so disposed that the air stream after leaving the filter will pass over the window before entering the second upright permitting the filterable matter therein to be illuminated by the light rays emanating from the electrical source, and receptacle means communicating with said second blower means for removing the unfiltered material from the air stream.

2,638,689
COUNTER FOR SHOES
Karl A. Stritter, Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 22, 1950, Serial No. 157,591
11 Claims. (Cl. 36—68)



1. A counter for shoes comprising a stiff body portion and a flexible, sewable flange about its lower margin comprising a strip of fabric folded upon itself and having its marginal portions secured to the opposite sides of the body portion with the fold extending beyond the body portion.

2,638,690
ARTICLE OF FOOTWEAR
Edward P. Bullard III, Fairfield, Conn.
Application May 29, 1950, Serial No. 165,087
7 Claims. (Cl. 36—71)



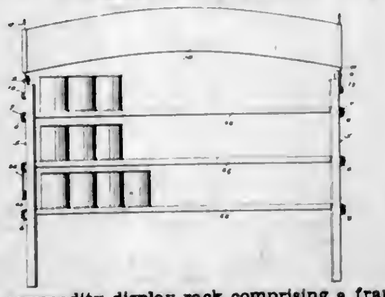
1. An article of footwear for use with a ski boot and the like having a rigid, non-flexible sole and heel portion, comprising a unitary structure including an inflatable bladder of spat-like form adapted to cover the top of the wearer's foot from a point in advance of the instep, rearwardly over substantial areas of both inside and outside of the instep and to a point adjacent the heel; strap means adapted to hold said bladder on the foot of a wearer; and valve means for facilitating the inflation of said bladder, whereby substantially the entire foot and heel of the wearer is maintained in intimate contact with the rigid, non-flexible sole and heel of the ski boot.

2,638,691
ROTARY PLOW FOR THE REMOVAL OF SNOW
Franz Ferdinand Wallack, Bruck an der Glocknerstrasse, Austria, assignor to Grossglockner-Hochalpenstrassen Aktiengesellschaft, Salzburg, Austria, a corporation of Austria
Application June 8, 1950, Serial No. 166,834
In Austria September 13, 1947
8 Claims. (Cl. 37—43)



2. In a rotary snow plow, a snow removal cylinder comprising a rotatable shaft, a plurality of spaced discs revolving with said shaft, a plurality of cutting blades extending between said discs and disposed at the peripheries of said discs, the cutting edges of said blades defining a cylindrical surface as the shaft revolves, a core portion rotatable with said shaft and disposed between said discs, said core portion having a plurality of longitudinally extending radial projections forming between them troughs having concavely curved bottoms close to said shaft, and guide blades projecting radially outwardly from said projections, the radius of said guide blades measured from the axis of said shaft being substantially less than that of the cutting edges of the cutting blades, said guide blades having convex snow-engaging surfaces merging smoothly into the cancave trough surfaces of said core portion to provide a smoothly curved surface from the outer edge of one guide blade to the next and said cutting blades being disposed closer to the guide blades ahead of them than to the guide blades behind them so that snow cut off by said cutting blades curls inwardly to the bottoms of said troughs near said shaft and is then directed rearwardly by said guide blades without abrupt change of direction.

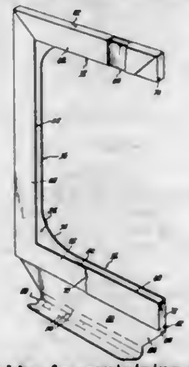
2,638,692
COMMODITY DISPLAY RACK
Russell R. Isenhour, Geneva, N. Y.
Application December 12, 1947, Serial No. 791,258
1 Claim. (Cl. 40—125)



A commodity display rack comprising a frame including end members, vertically swinging bars pivotally connected with the frame rising from the end members, an identification plate having its ends bent inwardly providing tubular end portions fitted over the vertically swinging bars, downwardly disposed tongues punched outwardly from the end bars, tongues punched outwardly

from the walls of the tubular end portions and disposed upwardly, the extreme ends of the downwardly disposed tongues of the vertically swinging bars abutting the extreme ends of the upwardly disposed tongues of the tubular end portions preventing upward movement of said plate on the end members, and portions of the walls of the tubular end portions overlying said tongues guarding said tongues.

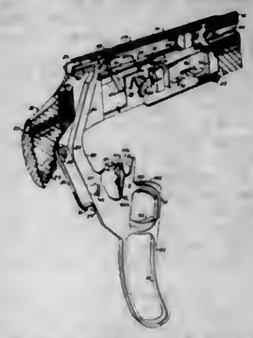
2,638,693
DISPLAY FOLDER
Thomas W. Foster, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application March 22, 1952, Serial No. 278,010
1 Claim. (Cl. 40—155)



A display folder for containing and displaying flat rectangular sheet-like articles comprising a frame-like member formed from a single sheet of folding carton stock and including a front wall panel adapted to overlie the marginal edge portions of the article on three sides thereof, top and bottom panels and a side panel extending laterally from said front panel and adapted to confine the edges of the articles at said sides within the frame-like member, additional side panels extending laterally from said front panel and adapted to confine the edge of the article at the remaining side thereof within the frame-like member, and a rear wall substantially coextensive with said front wall panel and spaced a slight distance from the latter, said rear wall including two pairs of interlocking leg panels extending laterally from opposed side panels and underlying the upper and lower marginal edge portions respectively of the article, a pair of extensions on said top and bottom panels respectively and overlying the respective pairs of interlocking leg portions, and a tuck flap extending from each extension for reception in the space between the respective interlocked leg portions and the opposed portions of said front panel, said tuck flaps each being provided with crease lines extending thereacross to effectively lessen the rigidity of the flap and facilitate insertion of the latter into the spaces provided for it.

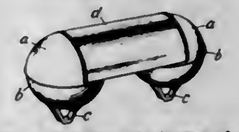
2,638,694
LEVER OPERATED GUN WITH VERTICALLY SLIDABLE BREECH BLOCK
William B. Morris, Fort Worth, Tex.
Application May 15, 1950, Serial No. 161,930
8 Claims. (Cl. 42—24)

2. In a gun action including a dropping breech block adjacent the barrel breech, a rotatable turn bolt parallel with and disposed laterally in spaced relationship from the axis of said barrel breech,



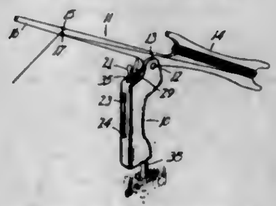
and a projection on said turn bolt connected with and constructed and arranged for raising and lowering said breech block.

2,638,695
KITE FLOAT FOR THE HEAD ROPES OF FISHING NETS
John W. Phillips, Osgodby, near Lincoln, England
Application December 15, 1950, Serial No. 200,935
In Great Britain July 7, 1950
4 Claims. (Cl. 43—9)



1. A kite float for the headrope of a trawl net, consisting of a plurality of coaxial hollow metal float bodies of circular vertical cross section, means at the bottom of said float bodies of longitudinally separated attachment of said float bodies to the headrope of a trawl net, and a downwardly concave upwardly convex rigid metal web extending between and secured to said float bodies, said web being symmetrical on either side of the vertical plane through the common axis of said float bodies and said means of attachment whereby the kite float is suitable for attachment to the headrope, either side forward with respect to the direction of trawling.

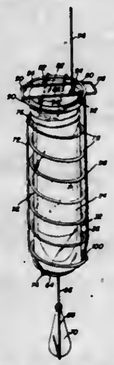
2,638,696
FISHING DEVICE
Martin J. Derkovits, Lancaster, N. Y.
Application December 13, 1949, Serial No. 132,699
3 Claims. (Cl. 43—15)



1. In a fishing device, a holder, a rod element pivoted thereto at an intermediate point, said rod element having outer and inner end portions

and a cam formation fixed for joint pivotal movement with said rod element, an impact element movably supported by said holder and having a portion directed toward the outer portion of the rod element, a spring urging said impact element toward said outer rod portion, and latch means engageable to restrain the impact element with the spring in stressed condition, said cam formation being normally out of contact with the latch means to permit free pivotal movement of the rod element and cam formation, said latch means having a portion in the path of pivotal movement of said cam formation whereby said cam formation engages the latch element upon predetermined downward movement of said outer rod portion to release the latch means and free said impact element for upward impingement against said outer rod portion under the impetus of said spring.

2,638,697
ILLUMINABLE ARTIFICIAL BAIT AND HOLDER THEREFOR
George Simpson Schwartz, Brownwood, Tex.
Application August 1, 1950, Serial No. 177,045
3 Claims. (Cl. 43—17.6)



1. In an illuminable artificial bait of the class shown and described, an openwork wire cage adapted to serve as a holder for an insertable and removable illuminable insert and embodying convolutions and substantially closed at one end and completely open at the opposite end, the last named end including a resilient free-ended half-convolution and an underlying full convolution, said half-convolution and full convolution providing keeper means, and a U-shaped catch having limbs extending across the open end of the cage, said limbs being provided with eyes hingedly and slidably connected with said full convolution, the bight portion of said catch being insertable and removable between the half-convolution and adjacent full convolution.

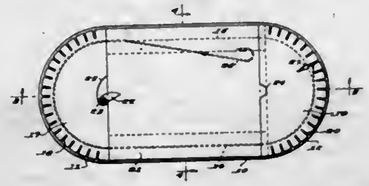
2,638,698
FISH LURE
Louis J. Eppinger, Detroit, Mich.
Application February 15, 1950, Serial No. 144,315
3 Claims. (Cl. 43—42.03)

1. A fish lure including an elongated substantially flat supporting link, and a wobble member loosely mounted on said link, said wobble member being approximately V-shaped in side elevation and comprising a pair of angularly disposed substantially flat diverging wings joined at one end and thereby forming an apex, said wobble member having an elongated substantially rectangular aperture at said apex extending transversely of said member and said link



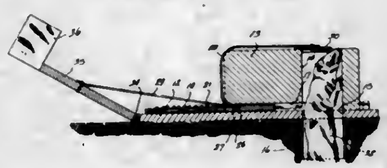
passing through said aperture and loosely fitting therein.

2,638,699
FISHING LEADER KIT
Oscar E. Seeburg, Nokomis, Fla.
Application August 1, 1951, Serial No. 239,750
3 Claims. (Cl. 43—57.5)



1. A leader kit comprising spaced parallel side plates having extended edges with spaced notches in the edges of one of said plates, spacing elements partitioned between the ends of the side plates, and resilient strips positioned between the side plates and spacing elements for receiving the points of fishing hooks.

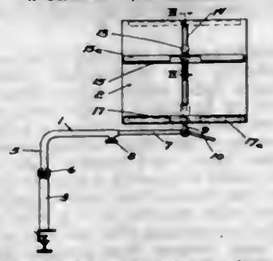
2,638,700
GOPHER TRAP
John Nantt, Hebron, N. Dak.
Application June 29, 1951, Serial No. 234,247
3 Claims. (Cl. 43—80)



1. An animal trap of the character described comprising a base member having an opening therein adapted to be positioned over the entrance to an animal burrow, a block member on said base member registrable with the entrance, said block member having a bore at right angles to the base member in alignment with said opening, a horizontal plate member slidably mounted on said base member, said block member being

slotted adjacent the bottom of said bore to receive said plate member, spring means adapted to bias the forward end of said plate member into said bore, a shouldered catch member engageable with the top of the wall of said bore in obstructing relation thereto and being disengageable responsive to an upward thrust thereon, and a flexible member tensionally connecting said catch member to said plate member and arranged to hold said plate member out of said bore when the catch member is engaged with the top of the wall of said bore.

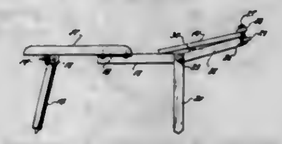
2,638,701
ADJUSTABLE BOOKHOLDER FOR HOSPITAL BEDS
Carl Axel Dahlgren, Malmo, Sweden, assignor to Sten Bengtsson, Malmo, Sweden
Application March 26, 1949, Serial No. 83,557
In Sweden March 24, 1948
2 Claims. (Cl. 45—82)



1. An adjustable book holder for hospital beds or the like, comprising a frame, a book supporting plate universally adjustably mounted on the frame so as to be able to occupy every position of inclination in space, means for connecting and enabling adjustment of said frame and said book supporting plate inter se, including a spindle adjustably associated with said frame and a sleeve fixedly attached to the back of the book supporting plate and non-slidably mounted on said spindle so as to permit turning of said plate around the spindle, means on said plate for retaining a book thereon, comprising two parallel rulers adapted to bear against the upper and lower edges of books, one of said rulers being displaceable towards and away from the other ruler over the face of said book supporting plate to make the rulers fit books of different heights, a sleeve rotatably and slidably mounted on said spindle, means extending through a slot provided in the book supporting plate and parallel to the spindle for rigidly securing said displaceable ruler to said sleeve, means operable from the front of said book supporting plate for locking the displaceable ruler in relation to the other ruler, and facing flanges on said rulers for engaging the leaves of the book, bent inwardly at right angles to the rulers and leaving free a portion at the centre of each ruler adjacent the back of the book so as to permit turning of the leaves of the book without operating any part of said book holder, and means for locking the book supporting plate and the connecting means in the desired positions.

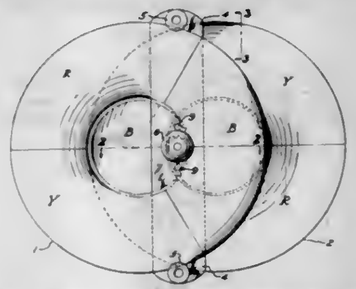
2,638,702
KNOCKDOWN STOOL-EASEL
Francis C. Holbrook, Brooklyn, N. Y.
Application August 19, 1949, Serial No. 111,121
4 Claims. (Cl. 45—129)

1. A portable, knockdown stool-easel comprising a stool seat, leg means depending from the rear section of said stool seat in set-up position and hinged to said stool seat to permit said leg means to be folded against the underside of said stool seat in knockdown position, a beam rigidly secured to the underside of said stool seat and projecting substantially frontward therefrom, a pivot clamping bolt supported on the forward end of said beam, an easel prop pivotally supported on said bolt and movable about the axis of said bolt from depending set-up position to folded knockdown position along said beam and against the underside of said stool seat, and an easel arm pivotally supported on said bolt and



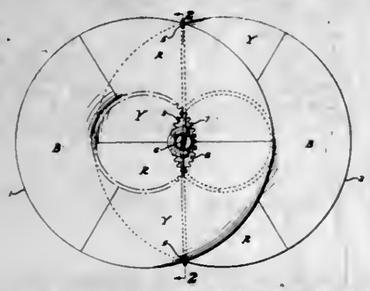
movable independently of said prop about the axis of said bolt from extended set-up position frontward of said beam to folded knockdown position along said beam and against the underside of said stool seat, said bolt including tightening and loosening means manipulable into position to loosen said bolt and to permit thereby the pivotal movements of said easel arm and said prop about the axis of said bolt relative to said beam and manipulable into tight clamping position to hold said prop and said easel arm selectively either in set-up position or in knockdown folded position.

2,638,703
CHROMATIC AERIAL TOP
Frank R. Higley, Cleveland Heights, Ohio
Application March 11, 1948, Serial No. 14,250
8 Claims. (Cl. 46—49)



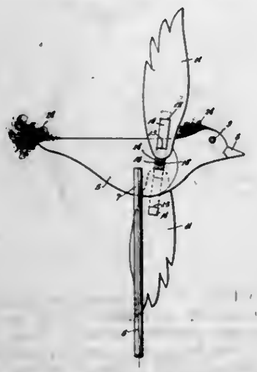
1. In a device of the class described: a pair of similar annular chromatic discs, each having inside diameter slightly greater than its radial width, said discs being disposed in partially overlapping relation, with a point on the outer periphery of each adjacent a point on the inner periphery of the other, adjacent portions of their inner peripheries together defining an elongated opening central of the device, and means mounting said discs so disposed for rotation about their axes and about an axis central of said opening, said mounting means including means engaging the outer peripheries of said discs, at intersecting portions thereof, for driving said discs about said axis, and also including relatively rotatable means engaging the inner peripheries of said discs.

2,638,704
CHROMATIC AERIAL TOP
Frank R. Higley, Cleveland Heights, Ohio
Application April 23, 1949, Serial No. 89,187
16 Claims. (Cl. 46—49)
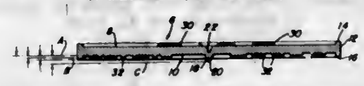


1. In a device of the class described and including a pair of annular chromatic discs disposed in partially overlapping relation with portions of their inner peripheries defining a central opening: means mounting said discs so disposed, for rotation about their axes and about an axis central of said opening, said mounting means including a portion extending across a face of said device, from one to the other of the two locations of intersection of the outer peripheries of the discs, with end portions confining said discs at said locations, against relative displacement from their planes, and with a central portion disposed in said opening.

2,638,705
ORNAMENTAL BIRD HAVING ROTATABLE WINGS
Albert W. Petrasy, Stratford, Conn.
Application October 7, 1949, Serial No. 120,017
1 Claim. (Cl. 46—53)



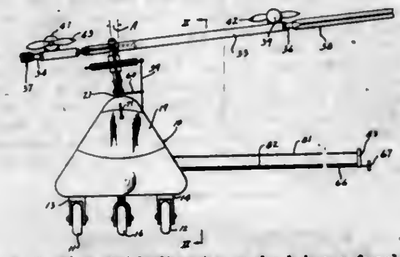
A toy comprising a body member having a profile simulating a bird in flight and having an elongate shaft-receiving bearing member extending transversely thereof with the ends projecting from each side of the body, a rotary shaft extending through said bearing member and projecting outwardly beyond each end thereof, a pair of flat sheet metal arms, each having a shaft-receiving opening therein provided with prongs on the outer side of each arm to bite into said shaft to rotate therewith and hold the arms on said shaft and against the ends of said bearing member and the shaft against longitudinal displacement in said bearing member, and a pair of wind-actuated wings having a profile simulating the wings of a bird in flight, said wings being provided with a pair of spaced transversely extending slits to receive the flat arms and secure the wings thereto and against rotation thereon, said wings rotating said shaft by wind pressure.

2,638,706
SPINNING DISK WITH EMBOSSED INDICIA
Frank E. Seale, Lexington, Ky., assignor to V. P. Seale, doing business as Bill-E-Company, Lexington, Ky.
Application July 11, 1951, Serial No. 236,166
1 Claim. (Cl. 46—64)



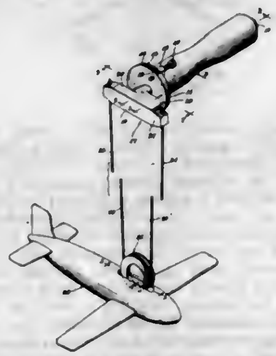
A manually twirled spinning-type pocket-piece used primarily for advertising purposes and comprising a light weight non-corrosive disk of a diameter to be conveniently grasped in one's fingers and spun into motion on a table or other support surface, said disk having planar obverse and reverse faces, said observe face being centrally depressed to provide a spindle with a pivot point for the reverse face, said spindle projecting beyond said reverse face a relatively short distance in comparison with the area of said disk, whereby said reverse face sweeps the support surface with a minimum of clearance, thus limiting the tendency of the disk to wobble and drag while spinning, said disk having a peripheral rim with upper and lower marginal edges projecting above and below the respective obverse and reverse faces to minimum degrees, and the pivot point of said spindle projecting to a plane slightly below the plane of the lower marginal edge of said rim to cause the latter to clear the support surface with requisite clearance, and said reverse face having indicia embossments thereon in the area between said spindle and lower marginal edge, said embossments all being in the same plane, a plane which is higher than the plane occupied by said lower edge.

2,638,707
REMOTE-CONTROLLED MODEL HELICOPTER
Robert L. Baker, Cedar Bluff, Ala.
Application July 7, 1951, Serial No. 235,602
6 Claims. (Cl. 46—75)



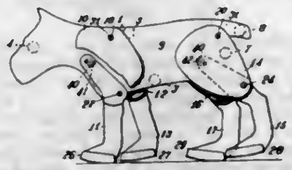
5. In a model helicopter embodying a fuselage, a rotor embodying lifting airfoils pivotally mounted thereon and remote control means operatively connected to said airfoils for rotating the same to change the angle of attack, the improvements comprising a rotor supporting column, a pivot member fixed to an upper part of the fuselage and extending outwardly thereof, means securing the lower end of the column to the pivot member and limiting the pivotal movement thereof to fore and aft direction relative to the fuselage, remote control means operatively connected to said column for rocking the same about the pivot member, and power means for driving the rotor.

2,638,708
CENTRIFUGAL HAND MISSILE LAUNCHER
Harlow B. Grow, Linden, Mo.
Application February 27, 1948, Serial No. 11,375
9 Claims. (Cl. 46—81)



1. In a toy, a launcher for a missile, said launcher comprising a handle, a rotary member journaled in the handle, a hook-shaped, movable element for releasably engaging the missile, a pair of connectors attached with one of their respective ends to said rotary member, their other ends being associated with the ends of said element so that the latter is held in a missile-engaging position, and manually operable means operative in said handle and adapted to be moved into the path of said rotary member for arresting the movement of the latter, thereby effecting a positional shift of said connectors, thus causing said element to move to its missile-releasing position, and a missile releasably suspended from said element.

2,638,709
WALKING FIGURE TOY
Max C. Mason, Bethesda, Md.
Application January 30, 1948, Serial No. 5,229
3 Claims. (Cl. 46—150)



2. In a mechanical walking figure toy, the combination of a body portion, thigh portions and leg portions for supporting and carrying the body, hip pivot means securing the thigh portions to the body for swinging motion, knee pivots for securing the leg portions to the thigh portions for relative swinging motion at points intermediate the upper and lower ends of said leg portions, cranks connected directly with said upper ends at points substantially spaced from the knee pivots, said cranks having their axes at points remote from the respective hip pivots, and means for turning said cranks to impart circular motion to the points of said upper ends of the legs where the cranks engage and forward and rearward walking movements to the lower ends of the legs.

2,638,710
ESCAPEMENT-CONTROLLED MOVABLE DOLL EYE
George Richard Ratcliff, London, England
Application July 12, 1949, Serial No. 104,187
In Great Britain July 20, 1948
11 Claims. (Cl. 46—169)



11. An eye assembly including operating means therefor, for dolls, toy animals, and other model figures; said assembly comprising eye elements, a mount supporting said eye elements, a gravity arm, means operatively connecting said gravity arm with said eye elements for rotating the latter upon movement of the entire assembly as a whole, an escapement device secured to the gravity arm to move therewith, a support, and a latching element oscillatably mounted on said support, said escapement device having means cooperating with said latching element to prevent said eye assembly from moving from the open position of the eye elements to the closed position thereof except upon giving the eye unit side to side rocking movements, the eye assembly being thereupon free to move in the reverse direction under the action of the gravity arm.

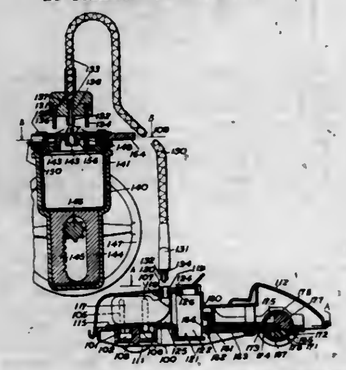
2,638,711
ORNAMENTAL SOUNDING TOY
John Burton Tigrett, Chicago, Ill.
Application July 1, 1948, Serial No. 36,382
2 Claims. (Cl. 46—175)



1. An animated ornament substantially in the form of a bell suitable for decorating a Christmas tree or the like comprising a U-shaped bracket, an electric light secured in the base of said bracket, a bell-shaped housing mounted to pivot on the upper extremities of the arms of the U-shaped bracket, a hollow member mounted within said housing substantially along the vertical axis thereof and movable therewith, a chamber formed within said hollow member at the upper end thereof, a conduit connecting said chamber to the interior of the hollow member at the lower end of said member, a low boiling point fluid within said member, said lower end of said

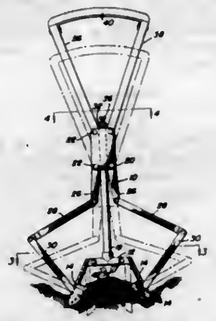
member being normally disposed in close association with said electric light so that the heat therefrom normally causes vaporization of said fluid in said hollow member which in turn causes a portion of said fluid to move through said conduit from the interior of the hollow member into said chamber to overbalance said housing so that it will pivot on said bracket, said conduit being so disposed that the lower end thereof will be withdrawn from the fluid remaining within said hollow member when the housing so pivots so that said portion of said fluid will flow back from said chamber to the bottom of said hollow member and said housing will return to substantially its initial position.

2,638,712
REMOTE CONTROL TOY VEHICLE
John Maxwell Jackson, Eastcote, England
Application February 2, 1949, Serial No. 74,217
In Great Britain February 4, 1948
10 Claims. (Cl. 46—210)



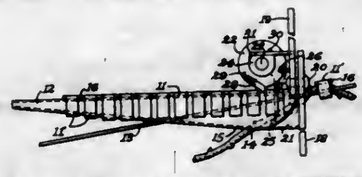
1. Apparatus comprising a model vehicle having wheels at least one of which is movable for steering the vehicle, an electric motor mounted on the vehicle and connected to drive at least one of said wheels, steering actuating means on the vehicle comprising a flexible bag adapted to be inflated by air pressure, said bag being positioned between a fixed abutment on the vehicle and a crank abutment constructed in the form of a crank pin carried by a toothed wheel or segment which is pivoted to the vehicle, the inflation of the bag causing the crank abutment to be moved away from the fixed abutment and thereby to turn the toothed wheel or segment, spring means for urging the crank abutment and fixed abutment towards one another, gear means for transmitting the movement of the toothed wheel or segment to the steerable wheel, air conduit means on the vehicle leading to said flexible bag, a pair of electrical connectors mounted on the vehicle and connected to said motor, a remote control device comprising a closed chamber, means for reducing the volume of said chamber to generate air pressure, an outlet connection from said chamber, an electric switch incorporated in said remote control device, and a pair of electrical connecting means associated with said switch, a flexible tube provided with connector fittings at each end for connecting with the air and electric connecting means on the vehicle and the remote control device respectively, and electrical conductors extending between the electrical connectors of the fittings at opposite ends of said flexible tube.

2,638,713
PLANT PACKER
Arnold D. Edwards, Jacksonville, Fla.
Application November 15, 1949, Serial No. 127,467
4 Claims. (Cl. 47—1)



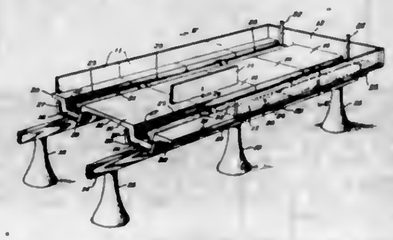
2. A plant packer comprising a pair of arcuately shaped packing jaws, a cross-head, said jaws being mounted adjacent the ends of said cross-head for vertical pivotal movement relative thereto, a vertical standard mounted intermediate the ends of said cross-head, operating arms rigidly attached intermediate the ends of each of said jaws, a pair of laterally spaced vertical plates lying adjacent said standard, vertical laterally spaced strips rigidly connecting said plates, said plates and said strips forming a bearing therebetween, said standard being slidably receivable in said bearing, downwardly and outwardly deflected lower extensions on said strips, connecting rods terminally pivoted to said lower extensions and said arms, upwardly and outwardly deflected supports attached to the upper end of said strips, a transverse handle bar connecting said supports, screw means mounted on said standard for adjustably limiting the opening of said jaws, tapered and arcuately shaped inserts in said jaws.

2,638,714
PORTABLE TYING DEVICE
Clayton E. Young, St. Joseph, Mich.
Application November 26, 1949, Serial No. 129,639
17 Claims. (Cl. 47—1)



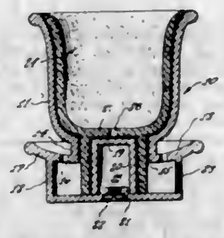
1. A tying device adapted for applying vine tying material in the form of an elongated C-section strip of resilient flexible sheet material having an inherent tendency to curl up about an axis extending longitudinally relative to said strip, the C of such section in curled form being of a diameter internally that is more than large enough to accommodate a vine extended therethrough and being also adapted to accommodate in like manner a wire on which the vine is to be fastened, said strip having uniformly spaced parallel slots provided in opposite sides thereof, defining therebetween the body portions of a plurality of C-shaped tie portions that are adapted to be used as so many separate vine ties when they are cut from the strip, there being only narrow connecting web portions left by said slots between the middle portions of adjoining ties in the strip, which web portions are adapted to be cut through easily, said tying device comprising a generally conical frame over which said strip is adapted to to be slipped endwise from the small end of the cone to spread open the curled up tie portions thereof, at least the large end of said frame being open on one side diametrically opposite where the web portions of the strip slipped over said frame are located and adapted to receive therein a portion of a vine and a supporting wire or other element therefor.

2,638,715
GREENHOUSE BENCH STRUCTURE
Herbert W. Schroeder, Palatine, Ill.
Application August 17, 1948, Serial No. 44,667
14 Claims. (Cl. 47—18)



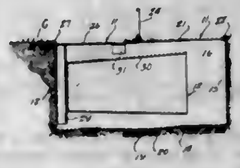
1. In combination in a prefabricated greenhouse bench structure, bottom members comprising elongated prefabricated sections having a transverse irrigation trough therein, the sections being joined together in edge to edge relation with the irrigation troughs in alignment to form a continuous trough, means providing sides and ends for the bench rising from the respective margins of the bottom sections, a half-duct formed from aligned loose jointed half drain tile laid to arch over the bottom of the trough, and a water inlet extending up from the duct above the maximum planting bed surface to be supported by the bench.

2,638,716
FLOWERPOT
Frank Luipersbek, New York, N. Y.
Application January 12, 1949, Serial No. 70,549
1 Claim. (Cl. 47—38)



A flower pot comprising an outer member and an inner member, said outer member comprising a bowl-like upper portion and a hollow substantially cylindrical base portion, said base portion including an annular concave approximately horizontal roof at the top and a bottom wall at the bottom, a reduced substantially cylindrical neck portion joining said annular roof with the lower rim of said upper portion, said roof extending radially beyond the periphery of said base portion thereby providing a circumferential eave extending from said roof, said roof having a plurality of openings therethrough, said inner member comprising an insert consisting of an upper portion substantially complementary to said bowl-like portion and a reduced cylindrical portion passing downward through said neck and resting loosely on said bottom wall, said insert having a horizontal partition therein at the junction of said upper and lower portions thereof, the external diameter of said insert at every horizontal level thereof being smaller than the internal diameter of said bowl-like portion and said neck at the said level thereby providing a space around said insert throughout the height thereof, said partition having an axial opening therethrough, an inverted cylindrical cup mounted in said lower cylindrical portion of the insert and resting on said bottom wall, an axially positioned nipple extending upward from said bottom wall and having a diameter slightly less than the internal diameter of said cup whence said nipple registers within the inverted rim of the cup and centers the cup, the external diameter of said cup being smaller than the internal diameter of said lower cylindrical portion of the insert thereby leaving a space around the cylindrical wall of the cup, the height of said cup being less than the distance between said bottom wall and said partition thereby leaving a space between the inverted bottom of the cup and said partition, said nipple having a passage therethrough.

2,638,717
CONCEALED CEMETERY VASE
Joe Weaver, Jr., Indianapolis, Ind.
Application January 13, 1950, Serial No. 138,383
2 Claims. (Cl. 47—41)



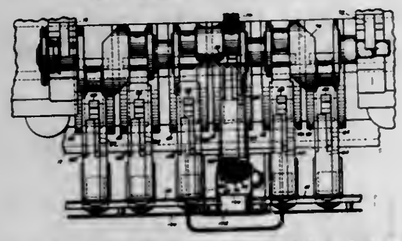
1. In a cemetery vase, a generally rectangular receptacle having an open top, a first closure member hinged at one end on an end of the top of the receptacle to swing downwardly from an elevated open position to a closed position overlying the top of the receptacle, a second closure member hinged at one end to the opposite end of the receptacle to swing downwardly from an elevated open position to a closed position overlying the top of the receptacle, said first and second closure members having means thereon engageable with the receptacle to prevent downward swinging thereof below their closed positions and to maintain said closure members in receptacle closing position, said closure members having free ends and the combined length of said closure members being greater than the length of the receptacle whereby said free ends overlap in the closed positions of said closure members, a support member on and projecting at right angles from the underside of one of said closure members, and a flower urn mounted on said support member and extending generally parallel to said one closure member.

2,638,718
NECK PIN LUBRICATING MECHANISM
George E. Rowe, Wethersfield, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application September 19, 1950, Serial No. 185,661
3 Claims. (Cl. 49—14)



1. In combination with a glassware forming machine for manufacturing bottles which includes a vertically reciprocable neck pin movable between a corkage molding upper position and a retracted lower position, a graphite impregnated applicator mounted for limited movement on a head member, motor means for reciprocating said head member and roller-applicator between a forward position and a retracted position in a path such that the roller-applicator rides over the tip of the neck pin, said motor means including means for constantly urging said roller-applicator to one of said roller-applicator positions, and means for forcing said roller-applicator to the other of its two positions.

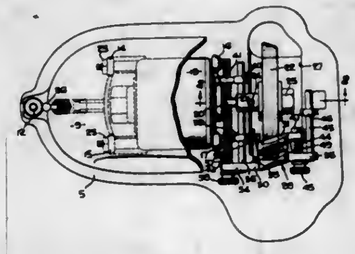
2,638,719
CRANK GRINDING MACHINE
Harold E. Balsiger, Waynesboro, Pa., and Ralph E. Price, Highfield, Md., assignors to Landis Tool Company, Waynesboro, Pa.
Application August 26, 1948, Serial No. 46,336
25 Claims. (Cl. 51—72)



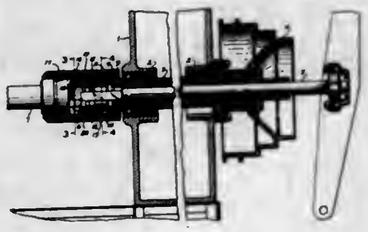
1. A grinding machine including a bed, a work support and a grinding wheel support slidably mounted thereon for movement toward and from said work support, means for successively supporting a series of spaced portions on a work piece during a grinding operation including a separate steady rest for each portion, means for moving each of said rests into operative position when the corresponding work portion is in position to be ground, a callpering device movable toward and from operative position relative to the portion to be ground, and means responsive to movement of the callpering device into operative position for causing said moving means to move the steady rest corresponding to the portion being ground to move into work supporting position.

2,638,720
CUTLERY SHARPENER
Leo A. Hoek, Los Angeles, Calif.
Application January 2, 1951, Serial No. 204,049
7 Claims. (Cl. 51—102)

1. A grinding machine comprising a base, a motor mounted on said base, a grinding wheel rotatable by said motor, said wheel having a rim, a blade guide mounted on said base adjacent said rim of said wheel, said blade guide including a pair of shoes, one shoe being closer to said wheel than the other shoe, means joining said shoes for adjusting their inner surfaces with respect to one another, and means for adjusting both of said shoes simultaneously as a unit toward and away from said rim of said wheel in the direction of the plane of one side surface of said wheel, the shoe farthest from said grinding wheel having its surface facing said grinding wheel curved at the central portion thereof and said other shoe having a slot therein to permit the passage of the rim of said grinding wheel therethrough, and a curved surface facing said first mentioned shoe.



2,638,721
BALANCING DEVICE FOR HIGH-SPEED HONING MACHINES
Joseph Sunnen, Clayton, Mo.
Application January 6, 1950, Serial No. 137,123
4 Claims. (Cl. 51—169)



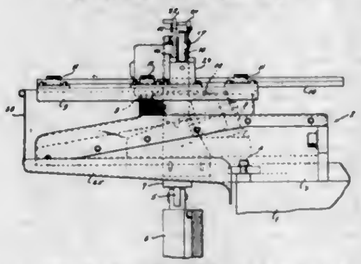
1. In a honing machine including a housing, a main spindle extending outwardly from the housing, a spindle nose connected at one end to said main spindle and having its outer free end portion formed with an annular recess tapering outwardly away from the wall of the housing, a shoulder formed at the inner end portion of said spindle nose, said shoulder being formed with a flat ground outer face lying at right angles to the axis of said spindle, a sleeve loosely positioned on said spindle nose and having its inner end adapted to abut the flat ground face of said shoulder, a plurality of adjusting screws carried by said sleeve, said screws being adapted to be adjusted to engage said annular wall to position the sleeve with respect to said spindle, said screws extending through said sleeve at substantially a 90° angle with respect to said tapered annular wall.

2,638,722
MANDREL
Ira A. Rimmel, Lakewood, Ohio, assignor to The Kindt-Collins Company, Cleveland, Ohio, a corporation of Ohio
Application November 2, 1950, Serial No. 193,700
8 Claims. (Cl. 51—190)



3. A mandrel for the support of a sandpaper tube comprising a plurality of rectangular staves of arcuate cross-section circumferentially interlocked with each other along their lineal edges and defining a hollow cylindrical body, tapered seats in the ends thereof, tapered end plates engaged with said seats, a threaded spindle in said tapered end plates, and a nut on said spindle for drawing the tapered end plates toward each other.

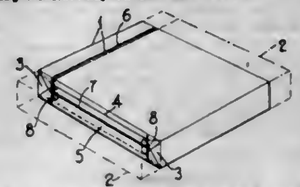
2,638,723
MECHANISM FOR FEEDING CYLINDRICAL ARTICLES INTO A CENTERLESS GRINDER
Herbert C. Edwards, Canal Fulton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application January 21, 1950, Serial No. 139,951
8 Claims. (Cl. 51—215)



1. A mechanism for feeding cylindrical work pieces in a horizontal stack into a machine tool comprising a chute for receiving a plurality of work pieces in peripheral contact with each other, a feeder including a member for holding work pieces one above the other to which the work pieces are delivered, means in said feeder including a lever contacting a work piece constructed and arranged for supporting a substantial portion of the weight of the work piece in contact therewith and the preceding pieces in the chute, and a loader into which the retained work piece is dropped; and a vibrating track for receiving the dropped work pieces for adding to the stack thereon for delivery to the machine tool.

2,638,724
METHOD OF AND APPARATUS FOR SEALING WRAPPERS
Valentine Pearce Harvey, Deptford, London, England, assignor to Molins Machine Company Limited, Deptford, London, England
Application December 16, 1946, Serial No. 716,947
In Great Britain December 19, 1945
11 Claims. (Cl. 53—14)

1. A method of sealing a cellulosic wrapper made of heat-sealing cellulosic material of a kind such that its permeability to moisture is increased by the application of heat to the material, folded about an article of rectangular block shape, wherein the wrapper is folded about one end face and two opposed faces of the article and edge portions of the wrapper extending beyond the said three faces are folded down on two opposed side faces extending between said opposed faces so that the edge portions extending beyond said end face form end tucks, and the edge portions extending beyond said opposed faces form side flaps over said end tucks while the remaining end face of the article is covered by end tucks and end flaps over said tucks formed by folding end portions of the wrapper extending from said opposed side faces and opposed faces, which includes the step of applying heat sufficient to fuse overlapping portions of the wrapping material over an area along the length of each opposed side face extending to the end thereof adjacent the said remaining end face, and across the width of each side face substantially only over areas where the side folds overlap one another and also lie over the end tucks, and over an area along the whole length of the said remaining end face, and across the width of the said remaining end face substantially only over areas where the end flaps overlap one another and also lie over the end tucks the heat being applied to said areas by causing heated elements to engage portions of the wrapper lying within said areas, and during the whole of such engagements maintaining the said elements and the said portions of the wrapper stationary relatively to one another.

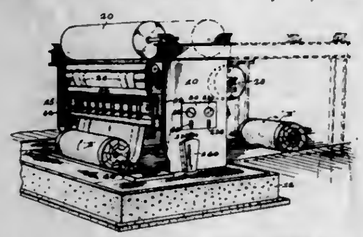


5. Apparatus for sealing wrappers made from heat-sealing cellulosic material, comprising a plurality of movable heated elements, each of which comprises a regular pattern of conjoined relatively narrow striplike heated surfaces arranged transversely to one another, and suitable to engage the ends at least one of a stack of wrapped articles, means to move a stack of wrapped articles intermittently past said heated elements, in such manner that at each intermittent movement a succeeding article is moved to the position previously occupied by a preceding article, and means driven in timed relation to said first means to move said heated surfaces intermittently toward and away from the stack so as to engage and move away from wrappers of articles in the stack and to engage the wrappers only while the stack is stationary.

2,638,725
PAPER ROLL WRAPPING MACHINE
Alfred T. Hurter and André C. Attendu, Montreal, Quebec, Canada, assignors to Stadler, Hurter & Company, West Montreal, Quebec, Canada
Application May 12, 1950, Serial No. 161,554
26 Claims. (Cl. 53—59)

1. A roll wrapping machine, comprising in combination, supporting rollers for supporting and rotating a roll for wrapping, means for rotating said supporting rollers, means for supporting a supply of a body wrapping web, means for supporting supplies of reinforcing edge bands, pri-

mary adhesive applying means for applying adhesive to the inside of the edge bands, respective means for guiding the edge bands carrying adhesive and the body wrapping web from said supplies into juxtaposed relationship one band at each side of the web to form a composite web reinforced at the side margins, means for feeding the composite web so formed, means for retaining and guiding the composite web in a path towards the supporting rollers, secondary adhesive applying means associated with said guiding means for applying adhesive across the composite web and severing means associated with said guiding means for severing the com-



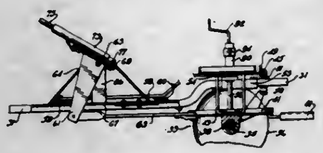
posite web, timing means, control means for starting and stopping the supporting rollers responsive to the timing means, control means for the primary adhesive applying means responsive to the timing means, control means for the secondary adhesive applying means responsive to the timing means, and control means for the severing means responsive to the timing means, crimping means connected to one of said supporting rollers, the rotation of said supporting rollers causing simultaneous winding of the composite web onto the roll and folding in of the edges of the composite web against the end of the roll by said crimping means.

2,638,726

DISK HARROW HITCH AND ANGLING MEANS

Fredrick D. Sawyer, Wayne, Mich., assignor to Dearborn Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 7, 1947, Serial No. 784,669
18 Claims. (Cl. 55—83)



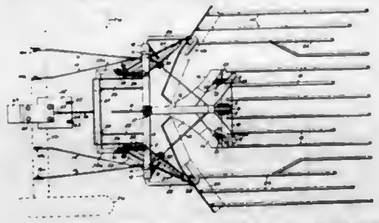
1. In a disc harrow, a longitudinal drawbar, a support frame slidably mounted adjacent the rear end of said drawbar, a disc gang extending substantially transversely of said drawbar and having a pivoted connection adjacent its inner end to said slidable frame, a link extending from adjacent the outer end of said disc gang to the forward part of said drawbar, means to vary the angularity of said disc gang by sliding said support frame longitudinally of said drawbar comprising a bell crank mounted on said drawbar forwardly of said frame, a connection between one end of said bell crank and said frame, a tube associated with the other end of said bell crank and a rod slidably received in said tube.

2,638,727

SWEET POTATO DIGGER

Joseph K. Park and Mitchell R. Powers, Clemson, S. C., assignors to The Clemson Agricultural College of South Carolina, Clemson, S. C., a corporation of South Carolina

Application September 5, 1951, Serial No. 245,203
9 Claims. (Cl. 55—139)



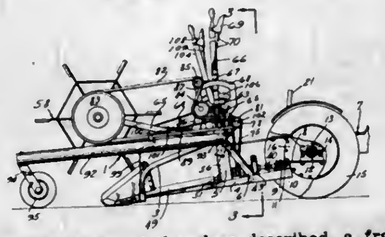
1. A machine for digging sweet potatoes comprising, in combination, a supporting frame, a middlebuster plow carried by said frame, a set of parallel sifting rods mounted on said frame behind said plow, a set of parallel sifting rods positioned on opposite sides of said first set of sifting rods, each side set of sifting rods being secured at their forward ends to an individual slide-plate inclined outwardly and rearwardly from a point adjacent the tip of the middlebuster, means attaching said slide-plates to said frame to permit vertical movement of each side plate and the attached rods with respect to said frame, whereby each set of side rods are supported upon and follow the surface of the ground, a pair of vine-raking wheels, means mounting said wheels on said frame for rolling contact with the ground in front of said slide-plates, said wheels being operative by rolling engagement with the ground to rake vines outwardly from said middlebuster and underneath said slide-plates, whereby each set of side rods passes over the vines which are raked outwardly by said wheels, and a vine-cutting device mounted for movement in advance of said vine-raking wheels and being operative to sever the vines on opposite sides of a row of potatoes.

2,638,728

SWATHER PLATFORM ADJUSTING MEANS

Abram P. Balzer and John A. Stoesz, Mountain Lake, Minn.

Application March 20, 1950, Serial No. 150,654
1 Claim. (Cl. 56—208)



In a swather of the class described, a frame structure, a cutter mounted on said frame structure and defining the leading edge thereof, pivot connections at the rear portion of said frame for mounting the same to a tractor for pivotal movements of said frame structure about a horizontal axis extending transversely of the direction of travel, a horizontal forwardly extending supporting leg pivotally connected at its rear end to said frame structure for swinging movements about an axis parallel to the axis of pivotal movement of said frame structure with respect to the tractor, a ground engaging caster wheel mounted on and supporting the front end of said leg forwardly and laterally outwardly of said cutter, linkage connecting the intermediate portion of said leg with the adjacent side of said frame structure for supporting the frame structure from said leg, and manually operated means associated with said linkage for imparting pivotal movements to the frame structure about said first mentioned axis, whereby to raise and lower said cutter.

2,638,729

WHEEL SUPPORTING SPINDLE FOR ROTATING CUTTING REEL TYPE MOWERS

Alex Bourg, Littleton, Colo.

Application September 23, 1949, Serial No. 117,430
1 Claim. (Cl. 56—249)



Adapter means for association with wheel-supported, reel-type, powered lawn mowers having spacedly-parallel frame plates vertically disposed at the opposite ends of the reel, whereby to condition the mower for ejection of material engaged by the reel laterally of and at an inclination relative to the mower travel path, said means comprising like spindles removably, adjustably, and replaceably engageable with and to outstand oppositely from said frame plates in revolubly supporting relation with the mower wheels, each of said spindles being constituted in an integral unit as a shank end characterized by a circular base seatable against the outer face of a frame plate, a threaded stem projecting centrally and perpendicularly from said base, a non-circular boss symmetrically marking the junction of said base and stem for registration within a correspondingly non-circular hole through the frame plate, and a wheel-mounting spindle body extending from said base in a direction opposite to the stem projection with its axis in angular relation to that of said stem; together with a nut threadedly cooperable on said stem to clamp said base to the frame plate and to hold said boss non-rotatably seated in the frame plate in a position of relative adjustment determinative of the direction of spindle body inclination relative to the mower reel axis.

2,638,730

WATER SPRAYING AND DEBRIS MOVING DEVICE

Guy C. Davidson, Burbank, Calif.

Application August 29, 1950, Serial No. 182,000
5 Claims. (Cl. 56—400.14)

1. A water spraying and debris-moving device, comprising: a virtually horizontal water spraying head means provided with a plurality of virtually horizontally spaced, similar nozzle means extending laterally from one side of said longitudinal water spraying head means; means selectively cooperable for effectively, controllably communicating said water spraying head means with a source of pressurized water; water spraying head carrying means cooperable to selectively, movably carry said water spraying head means in debris-moving, flushing relationship with respect to an underlying supporting surface in a manner whereby water emitted from said plurality of horizontally spaced nozzle means will have components virtually parallel with respect to said supporting surface; manually cooperable handle means effectively connected to said water spraying head means and said water spraying, head carrying means for moving said water spraying head and said water spraying head carrying means along said sup-



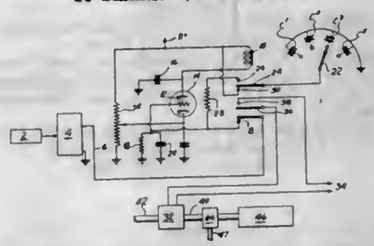
porting surface and in flushing, debris-moving relationship with respect thereto; and virtually horizontal rake means provided with a plurality of virtually horizontally spaced, virtually downwardly directed rake teeth, said rake means being selectively controllably, horizontally pivotally mounted with respect to said water spraying head means for manually controllable pivotal movement into and out of a forward debris-moving position for cooperative debris-moving engagement with respect to large accumulations of debris on the supporting surface.

2,638,731

CONTROL SYSTEM

Norman E. Klein, Stamford, Conn., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust organized in the State of New York

Application May 1, 1948, Serial No. 24,575
10 Claims. (Cl. 57—38.3)



4. The method of producing a novelty yarn which comprises creating a sequence of pulses, initiating a control signal in response to a created pulse, initiating discharge of a storage device in response to a control signal, maintaining the signal during the period of discharge of the storage device and actuating an element affecting the diameter of yarn for the duration of the control signal.

2,638,732

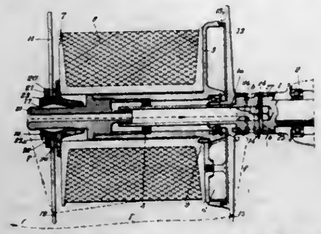
DOUBLE TWIST THROWING SPINDLE DEVICE

Louis Sabaton, Saint-Pierre-sous-Aubenas, France

Application June 9, 1950, Serial No. 167,099
In France June 9, 1949
6 Claims. (Cl. 57—58.83)

5. In a double twist throwing device, the combination of a frame, a spindle journalled in said

frame with its axis making an angle with the vertical, one end of said spindle projecting from said frame and said end being tubular, a bobbin, a bobbin carried carried by said spindle coaxially therewith, means for opposing rotation of said bobbin carrier about said axis, a tubular part rigid with said bobbin carrier and in line with said tubular spindle end, a disc carried by said tubular part so as to be rotatable about said axis, said disc being provided, at a distance from its center greater than the radius of the bobbin, with a hole for the passage of the yarn unwinding from said bobbin, said spindle being provided with a radial channel connecting the inside of its

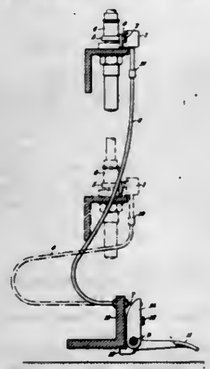


tubular portion with the outside, whereby the yarn coming from said hole can pass through both said tubular part and said hollow portion of the spindle and pass out through said radial channel, a second disc carried by said spindle to rotate together therewith provided near its periphery with a hole for the passage of the yarn coming from this radial channel, and a ring of a yarn friction resisting material mounted with respect to the spindle so as to project from the wall of said radial channel, at the place where the yarn is to be guided in said channel and to prevent contact of the yarn with the edge of said channel.

2,638,733
TEXTILE SPINNING, DOUBLING, AND TWISTING MACHINE

James Jackson Haythornthwaite and Vernon George Pinner, Accrington, England, assignors to T. M. M. (Research) Limited, Rossendale, England

Application April 4, 1951, Serial No. 219,142
In Great Britain April 26, 1950
6 Claims. (Cl. 57—88)



1. A spindle brake apparatus for textile spinning, doubling or twisting machines comprising, the combination with the spindle of a brake shoe cooperative therewith, a common movable support for the brake shoe and spindle, a manually operable lever located at a point remote from the brake shoe, a stationary support for the lever, and means responsive to the lever for applying the brake shoe with limited force including a compression spring actuated by the lever, a stop means for limiting movement of the lever, an operative connection from the compression spring to the brake shoe comprising a Bowden cable, and means for adjusting the effective length of the cable for the purpose of regulating the maximum braking pressure which can be applied by said spring.

2,638,734
METHOD OF MAKING STABLE DETWISTED YARNS AND FABRICS COMPRISING THE SAME

Mamerto Manahan Cruz, Jr., Wilmington, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

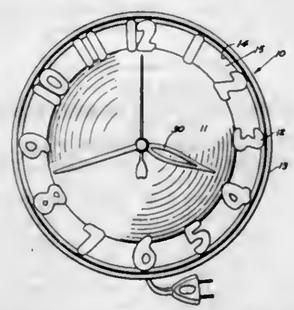
No Drawing. Application November 14, 1947, Serial No. 786,148
3 Claims. (Cl. 57—164)

1. The method of making a coherent yarn having low to zero twist from a relatively highly twisted yarn which comprises passing the relatively highly twisted yarn through an aqueous solution containing 4 to 8% of an organic film-forming polyhydroxy compound selected from the group consisting of a polyvinyl alcohol which is soluble in water at room temperature, hydroxyethyl cellulose, sodium alginate, calcium alginate and water-soluble alkyl ethers of cellulose, drying the polyhydroxy compound on the yarn to provide the yarn with a continuous, firm and flexible, plastic coating film of the polyhydroxy compound, then placing the treated yarn in a high humidity atmosphere, and removing at least some of the twist from the yarn while in said high humidity atmosphere whereby the film of the polyhydroxy compound remains in continuous condition on the yarn throughout the detwisting operation.

2,638,735
CLOCK

Max E. Schlenker, Peru, Ill., assignor to General Time Corporation, New York, N. Y., a corporation of Delaware

Application July 3, 1950, Serial No. 171,797
14 Claims. (Cl. 58—53)

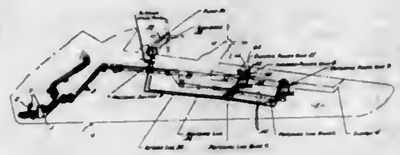


1. A clock comprising a case having a movement portion and a flange portion with a plurality of openings therein surrounding said movement portion, a reversible member positioned behind said flange portion so that parts of said member are visible through said openings and means to frictionally support said member behind said flange portion, solely by contact between the periphery of said reversible member and a portion of said case so that said member can be removed from the case by pressure on its front surface.

2,638,736
DUAL SOURCE FULL POWERED CONTROL SYSTEM

Thomas A. Feeney and Alvin R. Vogel, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application August 3, 1948, Serial No. 42,265
28 Claims. (Cl. 60—6)



27. In a full powered airplane attitude control system, a surface to be controlled, a pair of motors each connected to move said surface control means when energized, a motor control means connected to control each of said motors, a pilot's control element connected to move both of said motor control means in synchronism, a pair of power sources, and power shifting means operable to connect, in one condition, one of said power sources to one of said motor control means, and to connect, in another condition, the other of said power sources with the other of said motor control means.

2,638,737
THERMAL TYPE OVERLOAD CIRCUIT BREAKER

George M. Euler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 19, 1947, Serial No. 792,701
4 Claims. (Cl. 60—23)

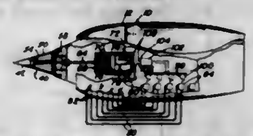


1. In an electric control device, an elongated bimetallic member fixedly mounted at one end with its other end free to move, and an elongated resistance heating element having one end connected directly to the free end of said member in electric and thermal conductive relation therewith, said heating element being positioned with its body portion remote from the body portion of said member and having an electric resistance large in relation to the electric resistance of said member, whereby said member is heated slowly by thermal conduction and is cooled rapidly and substantially independently of said element.

2,638,738
RAMJET ENGINE HAVING INLET CONE DIFFUSER AUTOMATICALLY ADJUSTABLE AS TO LENGTH AND CONE ANGLE

Robert M. Salter, Jr., Santa Monica, Calif.

Application March 22, 1951, Serial No. 217,042
6 Claims. (Cl. 60—35.6)
(Granted under Title 35, U. S. Code (1952), sec. 266)

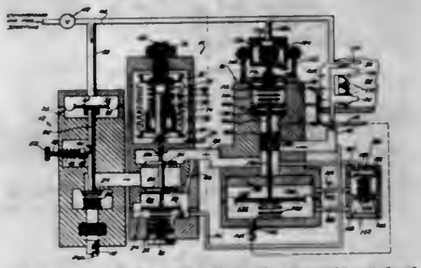


6. A jet type engine comprising an outer tubular cowling having a forward lip, an elongated body enclosed by said cowling and forming therewith an air-fuel stream chamber, a fuel supply for said chamber, an inlet nozzle constriction at the forward end of said chamber, an air diffusing spike supported by said enclosed body forwardly of and in axial alignment with said cowling provided with sections having plural diverse conical slopes thereon, at least one section of said spike being movable relative to the other spike sections and to the cowling lip and means for moving said movable section.

2,638,739
FUEL SUPPLY CONTROL SYSTEM FOR INTERMITTENT JET ENGINES

John M. Barr, Rochester, N. Y., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application November 20, 1947, Serial No. 787,198
12 Claims. (Cl. 60—39.14)



1. Apparatus for controlling the supply of fuel to an internal combustion engine, comprising a conduit for fuel flowing to said engine, a metering orifice of variable area in said condult, first means responsive to the velocity of flow of combustion air to said engine for varying the area of said orifice, and second means responsive to the atmospheric pressure adjacent said engine for regulating the fuel pressure differential across said orifice independently of said first means.

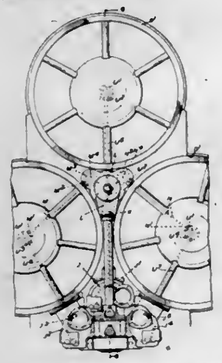
2,638,740
INTERNAL-COMBUSTION TURBINE POWER PLANT

Herbert Sammons, Gerrards Cross, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain

Application July 3, 1950, Serial No. 171,942
In Great Britain July 7, 1949
6 Claims. (Cl. 60—39.15)

4. An internal combustion turbine power plant for propulsion purposes comprising three internal

combustion turbine assemblies each including a rotary air compressor and a turbine with the rotors of the compressor and turbine connected to one another to constitute a rotor assembly and at least one combustion chamber extending between the compressor and turbine to provide three internal combustion turbine assemblies each of which has its own individual turbine, compressor, and combustion chamber or chambers and is operable independently of the other



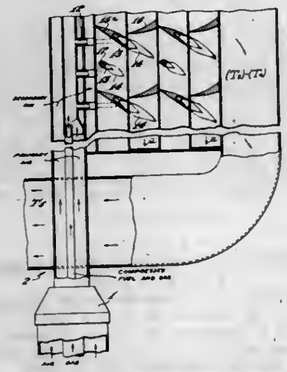
two internal combustion turbine assemblies, the axes of the three turbine assemblies lying at the apices of a triangle, and driving mechanism for auxiliary apparatus required for the function of the power unit comprising three rotary driving members connected respectively to the three rotor assemblies and a single driven member arranged to be driven by one or more of the driving members irrespective of whether one or more than one of the internal combustion turbine assemblies is in operation.

2,638,741

AXIAL FLOW GAS TURBINE HAVING REHEATING MEANS AND SPECIALLY SHAPED ROTOR AND STATOR BLADES TO PROVIDE ISOTHERMAL EXPANSION

Henry M. Putman, Jr., Champaign-Urbana, Ill.

Application August 11, 1948, Serial No. 43,593
11 Claims. (Cl. 60—39.17)



1. A prime mover comprising a rotor having a series of peripheral blades defining fluid passages, and means defining a duct through which a burning gaseous medium flows toward said fluid passages, said duct being shaped and dimensioned in accordance with the formula

$$\frac{S}{S_0}=\left(e^{\frac{q+A\bar{x}}{ART}}\right)\left(\frac{C_0}{\sqrt{C_0^2+\frac{2g}{A}q}}\right)$$

where

g is the acceleration due to gravity,
C_0 is the mean velocity at the entrance to the duct,
R is the gas constant,
T is the absolute temperature of the gas at the chosen section,
e is the base of the system of Napierian logarithms,
x is the abscissa of the chosen section measured along the axis of the duct,
$\bar{x}$ is the quantity of energy transformed into heat by friction loss,
q is the quantity of heat communicated to the flowing gas from entrance section to chosen section,
A is the caloric equivalent of work,
S_0 is the area of the entrance to the duct, and
S is the area of the chosen section,

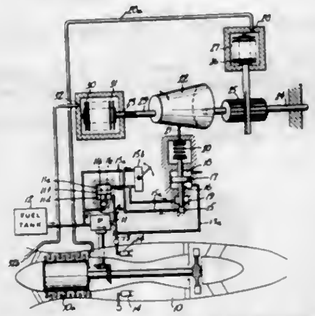
whereby to insure isothermal expansion of the burning gaseous medium, with concomitant increase in velocity, as it approaches the passages between the rotor blades.

2,638,742

MEANS FOR LIMITING THE SUPPLY OF FUEL TO CONTINUOUS COMBUSTION TURBINE ENGINES DURING ACCELERATIONS OF THE LATTER

Frederick H. Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England, a British company

Application April 18, 1951, Serial No. 221,627
In Great Britain April 19, 1950
3 Claims. (Cl. 60—39.28)



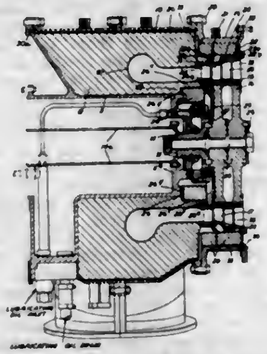
1. In a liquid fuel supply system for an aircraft gas turbine engine, a servo-operated device controllably shiftable in opening and closing senses respectively to decrease or increase the rate of fuel flow to the engine, a servo vent valve including a closure member therefor, operatively connected to said servo-operated device to be capable of terminating shifting of the latter in the closing, fuel-flow-increasing sense; a first loading means responsive to the rate of fuel flow to the engine and operatively connected to the said closure member to bias the latter in the opening sense, a second loading means also operatively connected to the said closure member to bias the latter in the closing sense, said second loading means including spring means reacting between said closure member and a movable abutment, said movable abutment comprising a three-dimensional cam of calculated configuration which cam is mounted for rotation, to be thereby movable in one operative direction, and for displacement along its axis of rotation, to be thereby movable in a second operative direction, a first pressure-responsive means responsive to variations in engine rotational speed and operatively connected to the cam to move it in one of its two operative directions, and a second pressure-responsive means responsive to changes in the density of the ambient atmosphere and operatively connected to the cam to move it in the other of its operative directions, the configuration of the cam abutment of the second loading means being such relative to said first loading means that for any condition of flight the first loading means will overcome the second loading means to open the servo vent valve to terminate shifting of the servo-operated device in the closing sense when the rate of fuel flow to the engine tends to exceed a predeterminate safe limit during rapid accelerating conditions of the engine.

2,638,743

CONSTRUCTION OF TURBINE-INLET AND STATOR ELEMENTS OF GAS TURBINES

Geoffrey Bertram Robert Feilden, Lincoln, England, assignor to Ruston & Hornsby Limited, Lincoln, England, a British company

Application April 26, 1950, Serial No. 158,231
In Great Britain April 29, 1949
13 Claims. (Cl. 60—39.32)



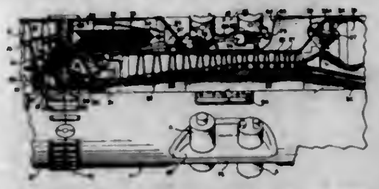
1. In an axial flow gas turbine, a turbine rotor, an outer drum-like casing having an extension surrounding the rotor, an inner drum-like casing coaxial with and radially spaced from the outer casing and connected thereto at the end remote from the rotor, an inlet volute of sheet metal terminating in an annular opening, an inlet-volute-supporting member comprising as integral parts thereof an annular plate attached to the end of the inner casing member next the rotor, an intermediate thin-walled cylindrical portion extending towards the rotor, an annular web, and a further cylindrical portion, all arranged in the order named and said last-named cylindrical portion defining the inner boundary of the entry of the turbine and having attached thereto the inner wall of the opening of said inlet volute, a segmental shroud ring coaxially disposed within and radially spaced from the outer casing extension, the segments of said shroud ring being supported by the outer casing extension with freedom to expand axially and circumferentially, and one end of the segmental shroud ring defining the outer boundary of the entry of the turbine being in register with but unconnected to the outer wall of the opening of the inlet volute, stator blading mounted in the segmental shroud ring, and rotor blading mounted on the rotor.

2,638,744

TURBINE POWER PLANT HAVING AUXILIARY UNITS

Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application December 9, 1948, Serial No. 64,377
6 Claims. (Cl. 60—39.33)



3. In a power plant having a gas turbine, the combination of first and second stage compressors, a casing for the turbine and compressors, the second stage compressor being of smaller outside diameter than the first stage compressor and the casing leaving a space in the casing, a plurality of gears rotatably supported in said space, means on the ends of said gears for connecting with power plant auxiliaries to drive the same, means in said space for supporting such auxiliaries, a drive between the turbine and the second stage compressor, a gear drive between the first and second stage compressors, a shaft driven by said gear drive and extending axially in the casing to said space, and pinions on the shaft driving said gears.

6. In a turbo power plant having a gas turbine and at least one auxiliary the combination of, a power plant casing containing the turbine and having an external pocket receiving the auxiliary, a radial shaft in the casing, bevel gear means driven by the turbine for driving the radial shaft, an axially extending shaft in the casing, skew gear means operatively connecting the radial shaft and the axial shaft, a tangential shaft for driving the auxiliary, and a hypoid gear drive between the axial shaft and the tangential shaft.

2,638,745

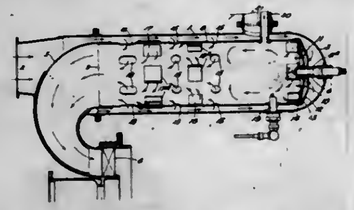
GAS TURBINE COMBUSTOR HAVING TANGENTIAL AIR INLETS FOR PRIMARY AND SECONDARY AIR

Matthew Lewis Nathan, Godalming, England, assignor to Power Jets (Research & Development) Limited, London, England

Application November 7, 1945, Serial No. 627,168
In Great Britain April 1, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 1, 1963
4 Claims. (Cl. 60—39.65)

1. In combustion apparatus for the combustion of fuel in a combustion supporting gas supplied as a high velocity stream, and of the kind comprising a flame tube which is open at its downstream end for emission of combustion products and is provided with swirl inlets at its upstream end constituting main primary combustion supporting gas entries from said stream and with additional inlets downstream of said primary en-

tries constituting secondary combustion supporting gas entries, in combination with a fuel injector which enters the upstream end of said flame tube along the axis of the tube, and which accordingly directs the fuel into the core of reverse flow which will be formed by the primary combustion supporting gas entering by said swirl inlets and swirling around the axis of the tube, the improvement that said flame tube is made up of a peripheral wall and an upstream end closure wall and said swirl inlets are ports formed in said peripheral wall, adjacent to said end closure wall and around said fuel injector, and are shaped to direct the air into the flame tube substantially tangentially on to the inner surface of the said peripheral wall.



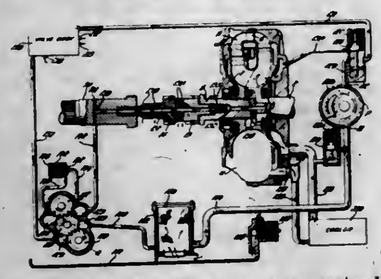
2,638,746

FLUID CONTROL FOR ROTARY TURBINE TYPE HYDRAULIC TORQUE CONVERTERS

Oliver K. Kelley, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application September 14, 1946, Serial No. 697,092. Divided and this application November 30, 1949, Serial No. 137,836

4 Claims. (Cl. 60—54)



1. In combination with a torque converter having a bladed working space, a pump, a pump pressure discharge passage, a pressure control valve in said pump discharge passage responsive to pressure in said passage, a pressure supply passage connecting said control valve to the inner radial zone of said converter working space, said control valve being effective in one position to block said pressure supply passage from said pump discharge passage and effective in a second position to establish communication between said passages, an oil cooler, a passage connecting the outer radial zone of said converter working space to said oil cooler, valve means responsive to the temperature of fluid in said working space for controlling the discharge of fluid from said working space, said valve being effective in one position to block the flow of fluid from said working space to said last-mentioned passage and effective in another position to connect said converter working chamber and said cooler in series, an oil return passage connecting said oil cooler to the inner radial zone of said converter working space, and valve means responsive to pressure in said return passage for limiting the pressure of fluid returned to said working space from said cooler.

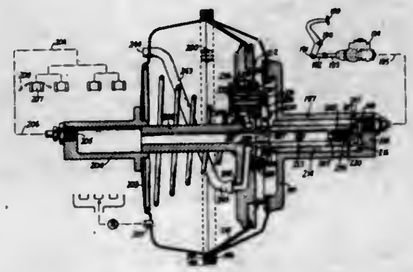
2,638,747

PRESSURE FLUID OPERATED PRESSURE INTENSIFIER

Edward A. Rockwell, Cleveland, Ohio

Application June 9, 1944, Serial No. 539,584

9 Claims. (Cl. 60—54.5)



1. A power unit comprising a movable wall, a chamber in which it moves, a connection on the power unit adapted to be connected to a source of pressure differing from the atmosphere, a venting connection, a valve means, having a plunger connected to the valve means and a chamber for the plunger, for controlling the application of the pressure from said source and from the venting connection to the movable wall, a second plunger connected to one side of the movable wall and having a plunger chamber, a hydraulic outlet for pressure liquid connected to said plunger chamber, a hydraulic inlet for pressure liquid connected to said first mentioned plunger for control of the valve means and a third plunger connected thereto, said hydraulic inlet and third plunger being located on the other side of the movable wall, and a liquid compensating valve on said other side of the movable wall, connected for operation with and movement by the third plunger to seat the compensating valve and said liquid compensating valve being located in a passageway connecting the hydraulic inlet to the hydraulic outlet, having a liquid compensating valve seat carried by the third plunger, said first mentioned valve means being constructed and arranged to exert a reaction from the air, admitted by the venting means, on said hydraulic inlet.

2,638,748

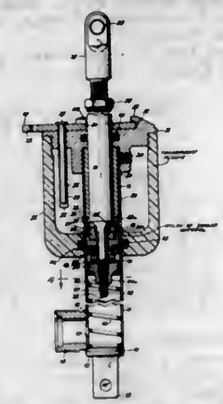
MASTER CYLINDER WITH FLUID-VOLUME COMPENSATING VALVE IN PISTON

Arthur E. Miller, Kenmore, N. Y., assignor to The Scott Aviation Corp ration, Lancaster, N. Y.

Application August 13, 1948, Serial No. 44,177

7 Claims. (Cl. 60—54.6)

1. A master cylinder comprising: a cylinder; a piston having a valve seat; a plunger having a portion adapted to engage said valve seat when said plunger is advanced and also having a forwardly extending threaded shank flattened on one face; and a nut arranged on said shank forwardly of the piston, and adapted to be compressed so as to engage said flattened face of said shank after said nut has been adjusted to allow the desired forward movement of the piston relatively to the plunger.



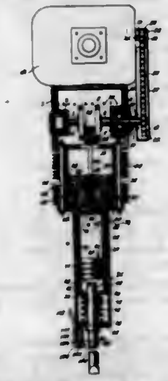
2,638,749

ELECTROPNEUMATIC HAMMERING DEVICE

Ottorino Sparano, Turin, Italy, assignor to Henry J. Clay and Joseph Carlino, both of New York, N. Y., attorneys for Enrico Squeri

Application January 19, 1951, Serial No. 206,764

7 Claims. (Cl. 60—62.5)



2. A pneumatic hammering device comprising means defining a first cylinder, a driven piston reciprocable in said first cylinder, means defining a second cylinder communicating with the first, a piston freely reciprocable in said second cylinder by alternate pressure and suction produced by the reciprocation of said driven piston, a tool having a shank and means for slidably receiving the shank of said tool in the lower end of said second cylinder, said tool being movable between an inner position in which it projects into said second cylinder and thereby limits the downward movement of said free piston and an outer position in which it permits further downward movement of said free piston, a portion of said second cylinder intermediate its ends being provided with an aperture open to the atmosphere and positioned to be covered by said free piston when downward movement of said piston is limited by said tool shank in its inner position and uncovered when said free piston is in its lowermost position to open to the atmosphere the space between the two pistons.

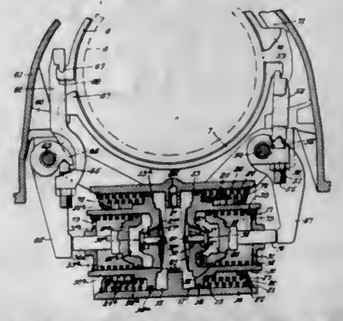
2,638,750

TRANSMISSION BRAKE SERVOMOTOR

Sidney V. Hettinger, Jr., Westchester, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application March 24, 1950, Serial No. 151,793

2 Claims. (Cl. 60—97)



1. A servomotor for a brake actuating mechanism, comprising a housing, a piston slidably journalled in said housing and shiftable relatively thereto, means including said housing and one side of said piston defining a first pressure chamber, a sleeve portion extending from the opposite side of said piston coaxially of said housing and having a substantially lesser diameter than said housing, a second piston journalled within said sleeve and capable of relative axial movement with respect thereto and with respect to said first piston member, a second piston chamber being defined by said opposite side of said first piston, the adjacent side of said second piston and the inner wall of said sleeve portion, means for supplying fluid pressure to said housing and to said first chamber, said first piston having a passage formed therethrough for communicating pressure from said first chamber to said second chamber, a poppet valve slidably journalled in said first piston effective when seated to close said passage, said poppet valve having a stem portion extending out of said first piston, and a sheet metal spring having an edge portion resiliently abutting said first piston and a central portion secured to said poppet valve stem portion for urging said poppet valve to seated position.

2,638,751

WATER COOLER

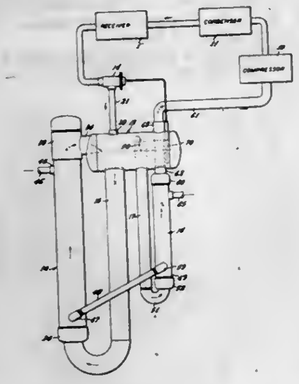
Lee Roy Erwin, Monrovia, and Joseph B. Griffith, Pasadena, Calif., assignors to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware

Application April 17, 1950, Serial No. 156,332

8 Claims. (Cl. 62—3)

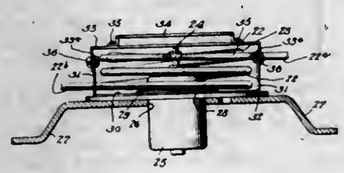
1. A water cooler comprising a flooded coil refrigerating system, and a heat exchange unit, said flooded coil system having a header tank for the reception of liquid refrigerant, an expansion loop depending from said header tank and in communication with the interior thereof and having a cylindrical depending leg and a coaxial return leg defining an annular passage for the return of refrigerant into said header tank, said heat exchange unit having a cylindrical shell sur-

rounding said expansion loop and a plurality of baffles disposed in spaced horizontal relation therein through which said expansion loop passes, each of said baffles being in substantially complete circumferential abutment against the inner surface of said shell and having one edge



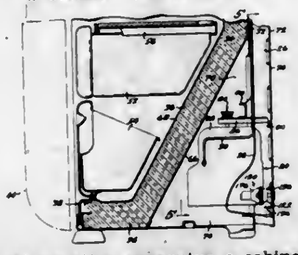
thereof in spaced relation from said shell defining a passage, the passage of each contiguous baffle being on diametrically opposed sides, and inlet and discharge passages communicating with the interior of said shell, whereby water entering said inlet follows a tortuous, turbulent path in intimate contact with said refrigerant loop to be cooled thereby.

2,638,752
COOLING SYSTEM AND APPARATUS FOR MOTOR VEHICLES
Alfredo Méndez, Chicago, Ill.
Application September 9, 1950, Serial No. 184,036
4 Claims. (Cl. 62—117)



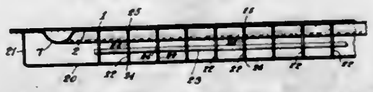
1. In a refrigerant circuit type cooling system for a vehicle having a body-provided wall, a heat exchanger coil included in said circuit and positioned adjacent said wall, the latter having a seat substantially concentric with said coil, a motor having a casing removably carried in said wall seat and providing an armature shaft-carried fan disposed substantially concentrically within said coil, a fan and coil-enclosing guard structure having air discharge openings and a base, mounting means projecting laterally from the motor casing and overlying said guard base, fasteners extending through said mounting means and guard base into said wall to secure the assembly in place and a shock-absorbing pad surrounding said motor casing and interposed between said guard base and wall, said pad secured to said wall by said fasteners.

2,638,753
REFRIGERATING UNIT MOUNTING
Ralph W. Doeg, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application July 19, 1950, Serial No. 174,643
2 Claims. (Cl. 62—117.4)



1. In refrigerating apparatus, a cabinet having a rear wall recess, a refrigerant motor-compressor unit received within said recess, said unit tending to oscillate about a vertical axis, a flue member overlying said recess at the back of the cabinet to induce air flow upwardly over said motor-compressor unit, means attaching said flue member to said cabinet, a cross member inwardly of said flue member and secured at opposite ends to said cabinet, an extension member extending transversely of said cross member, said extension member being attached at one end thereof to said flue member and further being attached intermediate its ends to said cross member having a cantilever arm overlying said motor-compressor unit, a resilient mounting member carried by said arm and supporting said motor-compressor unit, a noise suppressor interposed between said resilient mounting member and said arm, a pair of spaced diaphragm members carried by said flue member below said mounting member and arranged to move transversely to said axis, and means attaching said pair of diaphragm members to said motor-compressor unit and to said flue member to limit oscillatory movement of the former.

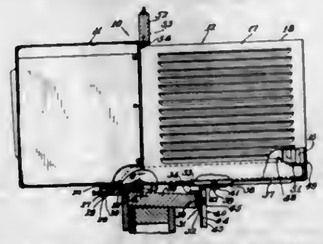
2,638,754
REFRIGERANT PLATE
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois
Application March 2, 1949, Serial No. 79,274
5 Claims. (Cl. 62—126)



1. In a vacuum type plate, two plate walls having generally parallel, plane surfaced sides and connecting edge portions, said edge portions being secured together in gas-tight relationship with said plane surfaced sides spaced apart, an intermediate sheet metal wall in the space between said plate walls and forming, with one of said plate walls, a coil space adapted to receive a volatile refrigerant, the opposed portions of said intermediate sheet metal wall and said last mentioned plate wall being secured together in gas-tight relationship, a supporting structure lying between the intermediate sheet metal wall and the other plate wall, said supporting structure being of heat conductive material and being formed and positioned directly to engage the outer surface of the coil forming portion of the

intermediate sheet metal wall and the inner surface of the other plate wall, and means for maintaining a less-than-atmospheric pressure in the interior of the space between said last mentioned plate wall and said intermediate wall, and for thereby holding the plane surfaced side of said last mentioned plate wall against and in heat transfer relationship with the supporting sructure, said means including a fitting through which air may be exhausted, and closure means for the flitting.

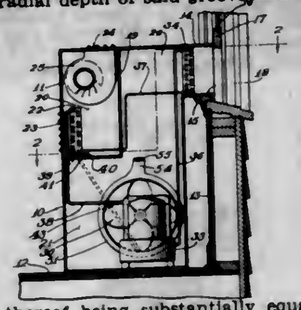
2,638,755
MEANS FOR SECURING COOLING UNITS IN WINDOW BOXES
William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application April 26, 1951, Serial No. 223,038
7 Claims. (Cl. 62—129)



1. In a unit air conditioner of the type having separable assemblies suitable for positioning one within the other and adapted for removable mounting in a window opening, the combination comprising: a window box assembly adapted for mounting in a window opening; a machinery assembly having refrigeration apparatus mounted therein and adapted for positioning within said window box; means for slidably positioning said machinery assembly within said window box assembly; means including a rib-like projection on one assembly and a cooperating recess in the other assembly for restraining relative horizontal movement between said assemblies when disposed one within the other; and interlocking means including an inturned flange portion on one assembly and a cooperating member on the other assembly for restricting relative vertical movement between said assemblies.

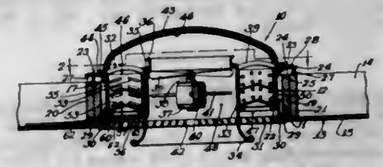
2,638,756
CONDENSATE REMOVAL MEANS
William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 5, 1951, Serial No. 224,784
5 Claims. (Cl. 62—140)

5. In an air conditioning unit; an evaporator for cooling air; a condenser for cooling refrigerant; a compressor for compressing the refrigerant; a fan for circulating air over said condenser; a cylindrical shroud enclosing said fan having an internal annular channel-shaped groove formed therein; conduit means for conducting condensate from said evaporator to said groove; means for conducting fluid from said groove upon said condenser, said means including a nozzle in liquid communication with said groove; and means carried by the tip of the blades of said fan and extending radially into said groove for sweeping condensate received in said groove to said nozzle, said means including U-shaped dipper members, the radial height of said dipper members being substantially equal to the radial depth of said groove and the axial



width thereof being substantially equal to the axial width of the bottom of said groove, the legs of said dipper member extending tangentially in the direction of rotation of said fan.

2,638,757
CEILING MOUNTED AIR-CONDITIONING APPARATUS
William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 5, 1951, Serial No. 224,785
10 Claims. (Cl. 62—140)

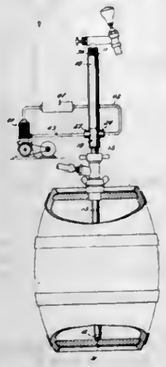


1. In a heat exchange unit mounted in a room ceiling, a casing provided with interconnecting inlet and outlet passageways, a refrigerant evaporator comprising a tube formed into a series of U-bends with fins secured thereto, troughs positioned under each edge of said evaporator, said U-bends tilted downwardly toward said troughs so that condensate formed thereon will drip into said troughs, and means for removing the condensate from said troughs.

2,638,758
COOLING AND DISPENSING DEVICE
Carl L. Daun, Milwaukee, Wis., assignor to Daun & Co., Chicago, Ill., a corporation of Illinois
Application June 2, 1950, Serial No. 165,833
4 Claims. (Cl. 62—141)

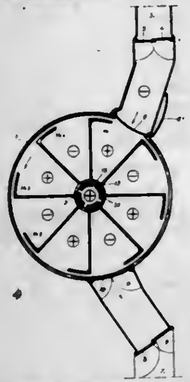
1. A refrigerated tap rod, for dispensing carbonated beverages from a container, said refrigerated rod comprising an intermediate fitting, an upper fitting, a lower fitting, and a plurality of concentrically arranged thin-walled metal tubes of high thermal conductivity including a central tube, an intermediate tube, and an outer tube, said central tube extending from said upper fitting to said lower fitting and forming a passage through which the beverage is drawn, said intermediate tube being anchored in said upper fitting concentrically with said central tube and extending downwardly therefrom and cooperating with said central tube to delineate

a refrigerant passage surrounding said beverage passage, said outer tube extending from said lower fitting to said intermediate fitting concentrically with said intermediate tube and cooperating therewith to delineate a continuation of refrigerant passage, a refrigerant inlet in said intermediate fitting, a refrigerant outlet in said intermediate fitting, and a metering device in-



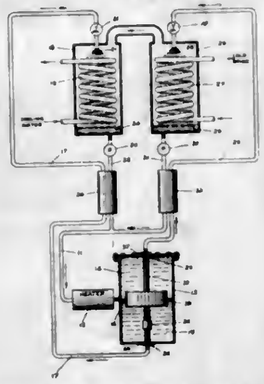
terposed between said refrigerant inlet and said refrigerant passage, said metering device serving to control the flow of refrigerant to said refrigerant passage in such quantity as to maintain said passage substantially filled with refrigerant at all times whereby the effectiveness of the refrigerating action of the rod is materially increased.

2,638,759
PROCESS AND APPARATUS FOR BRINGING AN OBJECT TO A GIVEN TEMPERATURE
Pierre Guillaume Manuel Barris, Paris, France
Application February 5, 1948, Serial No. 6,514
In France February 10, 1947
2 Claims. (Cl. 62—173)



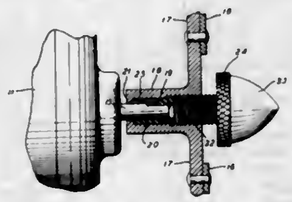
1. The process of imparting to foodstuff and like objects a predetermined final temperature comprising the steps of dispersing atomized liquid by means of rapidly moving gas of relatively very low temperature, directing said dispersed liquid onto said foodstuff, whereby a shell-like layer of microscopic ice pellets in which said gas is absorbed, is deposited on said foodstuff, permitting said layer to melt, subsequently causing contact of said layer with a further layer of ice pellets to thereby cause freezing of said first mentioned layer and adherence of the resultant ice layer to the foodstuff so as to enshroud same in a continuous and substantially airtight manner, and then storing the thus enshrouded foodstuff at a temperature ensuring the enshrouded foodstuff to reach said predetermined final temperature while thermal exchange between said foodstuff and said layer with which the former is enshrouded, takes place.

2,638,760
METHOD OF REFRIGERATION USING CONJUGATE SOLUTIONS
Lindley E. Mills, Kalamazoo, Mich.
Application February 7, 1949, Serial No. 75,079
5 Claims. (Cl. 62—179)



1. The method which includes: heating a negative conjugate system comprising a low-boiling component and a high-boiling component to cause the formation therein of a high-boiling conjugate solution and a low-boiling conjugate solution, the low-boiling solution being rich in the low-boiling component; separating the conjugate solutions in liquid form from one another; and cooling the high-boiling solution in vapor contact with the low-boiling solution to cause vaporization of the low-boiling component from the low-boiling solution and the absorption of the vapors in the high-boiling solution.

2,638,761
FAN HUB
Arthur L. Henry, Fort Worth, Tex.
Application January 23, 1950, Serial No. 140,055
1 Claim. (Cl. 64—11)



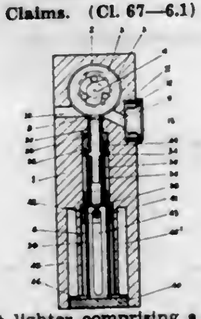
Means for mounting a fan hub on the end of a shaft projecting from a motor, and wherein said means includes a flat surface on the projecting end of said shaft, a tubular hub body having its inside diameter greater than the outside diameter of said shaft and including an inwardly directed flange on the end thereof adjacent said motor when said body is mounted on said shaft, threads in said tubular body in the end thereof opposite said flange, a tubular sleeve of resilient material received within said body and having one end thereof positioned against said flange and having the other end thereof positioned between the ends of said threads, a threaded spinner received within said threads in said body and adapted to bear against the end of said tubular sleeve opposite the said end thereof in contact with said flange.

2,638,762
OVERLOAD RELEASE COUPLING
Robert C. Rayner, Dayton, Ohio
Application July 22, 1947, Serial No. 762,564
1 Claim. (Cl. 64—30)



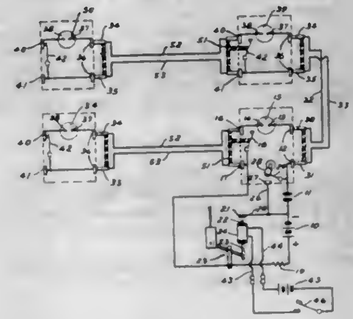
A clutch for use in combination with a crank shaft of a fishing reel comprising in combination, a shaft extension secured to said crank shaft, a cup shaped clutch element nonrotatably secured to said crank shaft, an operating handle spaced from said shaft extension, a complementary cup shaped clutch element attached to said handle for rotation about said shaft extension, one of the clutch elements having slots therein forming resilient prong-like extensions mounted to resiliently contact the other clutch element, adjustable means holding said clutch elements in clutching engagement with one another, and spring means biasing said clutch elements out of clutching engagement, said spring means comprising a coil spring disposed within said cup shaped clutch elements so that the spring means tends to separate the clutch elements and the prong-like extensions resiliently urge the clutch elements into contact with each other to thereby provide a clutch that provides slippage when overloaded.

2,638,763
FRICTION TYPE LIGHTER
William d'Alton, Paris, France
Continuation of application Serial No. 113,140, August 30, 1949. This application April 24, 1951, Serial No. 222,569. In France December 16, 1948
5 Claims. (Cl. 67—6.1)



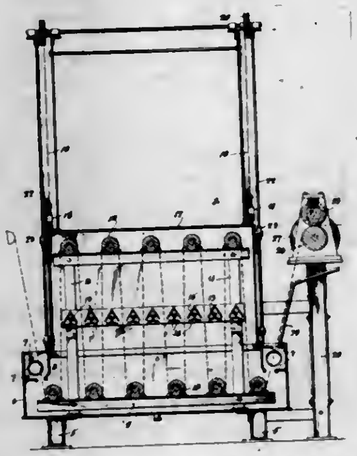
1. A pocket lighter comprising a casing, walls forming a substantially closed, flat cylindrical chamber within said casing, a rotatable abrasive wheel mounted in said chamber and dimensioned to occupy substantially its whole volume, means connected to said wheel and operable from the exterior of the casing for rotating said wheel, a flint positioned to bear on said wheel, means for pressing said flint, against said wheel, a short discharge duct opening in said chamber at a point adjacent to the flint and disposed in substantially tangential relation with said chamber to receive the pyrophoric particles stripped by the abrasive wheel from the flint, an enlarged outlet provided on the outer end of said duct for receiving the end of a cigarette with a snug fit, a restricted conduit connecting said chamber with the exterior at a point substantially opposite to that of the discharge duct, whereby pyrophoric particles may be drawn through said duct and into said outlet without receiving an unrestricted supply of air.

2,638,764
PHOTOFLASH EQUIPMENT FOR MULTIPLE FLASH
Morris Schwartz and William Castedello, Plainville, Conn., assignors to The Kalart Company Inc., Plainville, Conn.
Application June 9, 1950, Serial No. 167,102
5 Claims. (Cl. 67—31)



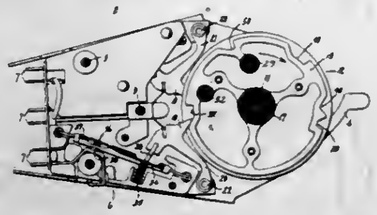
1. A photographic flash unit comprising a casing, a photoflash lamp socket and a reflector mounted on the casing, an incandescent test lamp supported by the casing and disposed for observation from the outside of the casing, contact terminals for inserting therebetween a source of direct current, a capacitance means and a resistance means disposed within the casing, said contact terminals, capacitance means and resistance means being connected in a series circuit including the lamp socket, normally open switch means on the casing connected with the capacitance means and the lamp socket in a series circuit by-passing said terminals of the source of current and said resistance means for discharging the capacitance means across the lamp socket upon closing of the said switch means, and normally open test switch means on the casing operable from the outside of the casing and connecting the capacitance means and the test lamp in a series circuit for discharging the capacitance means through the test lamp upon closing the said test switch means thereby flashing the test lamp.

2,638,765
STEAMING APPARATUS
Evan V. Quinn, Port Chester, N. Y., assignor to Unistel Textile Machine Corporation, Port Chester, N. Y., a corporation of New York
Application May 17, 1949, Serial No. 93,689
4 Claims. (Cl. 68—5)



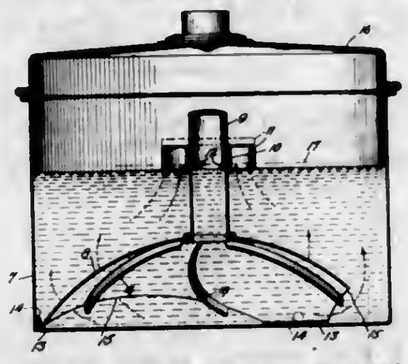
1. A continuous cloth and yarn steamer comprising in combination a base, a framework fixed with respect to said base, rolls supported solely for rotation by said framework, steam-supplying pipes mounted by said framework, a steam chamber providing member enclosing said framework, rolls and pipes and means for bodily elevating said member to completely expose said framework and rolls.

2,638,766
AUTOMATIC WASHING MACHINE CONTROL
John H. Palmer, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application April 21, 1951, Serial No. 222,223
4 Claims. (Cl. 68—12)



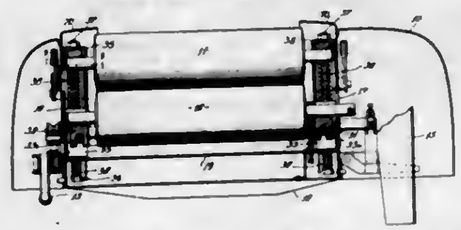
1. A controller for a motor-driven apparatus comprising a timer motor, a cam disk having a peripheral face on which are provided alternate raised and recessed portions, clutch means connecting the timer motor to said cam disk and through which it drives a cam disk, said clutch means being releasable to permit turning of the cam disk in either direction independently of said timer motor, a follower for said cam disk, a switch operable upon movement of said cam follower to one of said raised portions to complete a drive motor circuit and operable upon movement of said cam follower to one of said recessed portions to interrupt said drive motor circuit, manual means connected to said cam disk for turning it in a direction contrary to its driven direction, and stop means located at the leading ends of selected circuit interrupting recesses which engage with said follower to prevent turning of said cam disk in said contrary direction beyond the leading edge of a selected recess.

2,638,767
CIRCULATING MEANS FOR AUTOMATIC COOKERS OR WASHERS
Alphonso Frank Albano, Poughkeepsie, N. Y.
Application April 28, 1949, Serial No. 90,058
2 Claims. (Cl. 68—193)



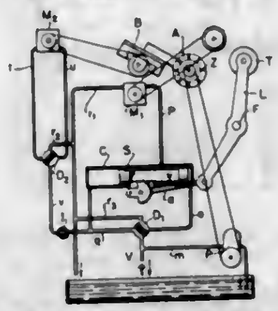
1. Apparatus of the character disclosed comprising a pot, a dome, means for removably securing said dome in said pot with free communication beneath the lower edge of said dome and the interior of said pot, a riser carried by said dome closed at the top and having a valve opening in the side of the same and a float guided over said riser and arranged to open and close said valve opening in the movements of said float over said riser, and clothes confining means adjustably and removably secured on said riser at a different level and independently of said float and including washing cups supported for engagement by the clothes.

2,638,768
CLOTHES WRINGER
Nicholas L. Etten, Waterloo, Iowa, assignor to Chamberlain Corporation, Waterloo, Iowa, a corporation of Iowa
Application February 2, 1949, Serial No. 74,149
6 Claims. (Cl. 68—257)



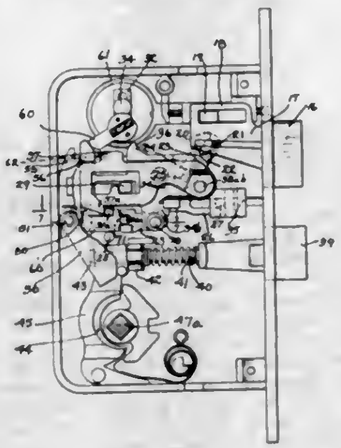
6. In a clothes wringer, a frame including a pair of rigidly connected spaced end plates, a pair of spaced rotary pressure bars bracingly mounted in and having a portion thereof between said plates, a spring and bearing cage assembly slidably mounted on each end plate, cam means operatively associated with each rotary pressure bar and engaging said bearing cage to hold said cage in a pressure applying position, means for rotating said bars in opposite directions about the axes thereof, and means for locking and releasing said rotary pressure bars.

2,638,769
HYDRAULIC SYSTEM FOR DRIVING THE ROTATION OF SUNDRY MEMBERS IN MACHINES FOR THE WORKING OF SKINS AND HIDES
Ermanno Gianoglio, Milan, Italy, assignor to S. A. Luigi Rizzi & C., Modena, Italy, a firm
Application July 7, 1950, Serial No. 172,427
In Italy March 6, 1950
3 Claims. (Cl. 69—42)



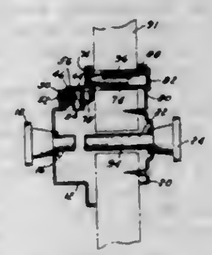
1. A tanning machine having sundry rotating members, including at least one operating roller rotating at a high number of turns and at least one auxiliary roller rotating at a number of turns in general lower than said operating roller, a hydraulic system comprising a pump which puts a fluid under pressure and at least one hydraulic motor actuated by said fluid, said motor being designed to rotate said auxiliary roller of the machine, and comprising also means by which the hydraulic motor driving the auxiliary roller is rotated only if said auxiliary roller moves close to the operating roller.

2,638,770
HOTEL LOCK
Louis Gutman, Whalom, Mass., assignor to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts
Application January 28, 1949, Serial No. 73,388
8 Claims. (Cl. 70—107)



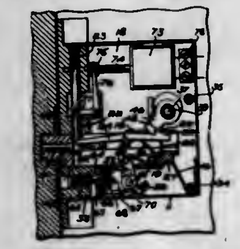
1. In a lock having a dead bolt, a latch bolt and independent outside and inside key operable tumbler controlled retractors for the dead bolt, each retractor carrying a talon and a tumbler, roll backs and cams for the latch bolt, each operable by a swivel sectioned spindle for independent operation of the latch bolt cams to provide independent knob operation from the outside and inside faces of the door, the combination therewith of a wishbone lever connected to be actuated by the inside cam for the latch bolt and having a camming finger portion extended to tiltably engage the tumbler for the outside dead bolt retractor, simultaneously to withdraw the latch bolt and dead bolt by inside knob operation by the movement transmitted to the latch bolt and dead bolt retractors, respectively.

2,638,771
DOOR LATCH
Charles S. Comey and Millard F. Saxton, Flint, Mich., assignors to The Engineered Products Company, Flint, Mich., a corporation of Michigan
Application December 14, 1949, Serial No. 132,935
1 Claim. (Cl. 70—129)



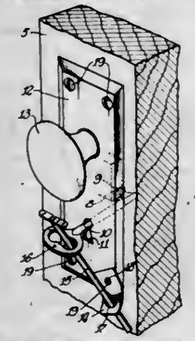
In a rim latch for a door of the type having inner and outer trim plates, the inner of which forms a housing for a latch mechanism, the combination of a dead bolt slidably mounted on the inner face of said inner trim plate, said inner trim plate defining a housing having a front wall, end walls, side walls and a substantially open rear side which is adapted to be closed by the face of the door on which the inner trim plate is adapted to be mounted, said dead bolt being mounted on said inner trim plate for sliding movement from a position lying wholly within said inner trim plate to a position projecting outwardly through an end wall of said trim plate, a knob slidable on the outer face of said inner trim plate, a pin passing through said inner trim plate and connecting said knob with said dead bolt, said pin serving to retain said knob and dead bolt on opposite sides of a wall of said inner trim plate, a yoke member lying wholly within the confines of said inner trim plate and having at one end thereof a sliding pivotal connection with said dead bolt, the opposite end of said yoke having a spindle fixedly secured thereto, said spindle projecting outwardly of said inner trim plate substantially beyond and in a direction normal to the plane of said open rear side, a strap secured to the inner face of the front wall of said inner trim plate, said strap having an opening therein in which said spindle is rotatably supported, said yoke lying between said strap and the inner face of said front wall, said outer trim plate having a sleeve thereon which projects normal to and outwardly beyond the face of said outer trim plate which is adapted to be positioned against the face of a door, said sleeve having a telescopic engagement with the free end portion of said spindle, said free end portion of said spindle being rotatable within said sleeve and being fashioned for interengagement with a key inserted through said sleeve from the outer face of said outer trim plate.

2,638,772
LOCKING BOLT AND ACTUATING AND ANCHOR RELEASING MEANS THEREFOR
David A. Ramler, Brookline, Mass.
Application July 18, 1950, Serial No. 174,501
7 Claims. (Cl. 70—151)



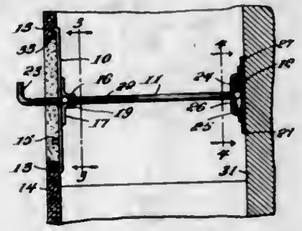
1. A door lock comprising a support, a bolt carried by said support for movement between an exposed locking position and a retracted unlocked position, a bolt anchor carried by said support to slide at right angles to the bolt axis between operative and inoperative positions, said bolt including a shoulder engageable by said anchor when said bolt is in its locking position and said anchor is in its operative position, a member pivotally carried by said bolt for movement between a first position and a second position and engageable with said anchor, and a bolt retracting unit to actuate said member from its first to its second position to move said anchor into its inoperative position and said member in its second position operatively connecting said bolt to said unit.

2,638,773
DOOR KEY FASTENER
Edwin C. Griesbach, Oak Park, Ill.
Application October 25, 1951, Serial No. 253,170
2 Claims. (Cl. 70—429)



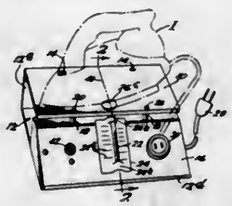
1. A device for holding a lock-actuating key of a door in door-locked position with the use of a bolt having sufficient length for passage through the bow of the key and connect with a means secured on the door at a lateral point relative to the shank of the key, comprising the following improvement: said means secured on the door being a spring fastener having an aperture sufficiently large to permit passage of said bolt therethrough and the fastener being so disposed that when adequately sprung away from the door the aperture will permit passage of the bolt therethrough and constrain the bolt by spring action.

2,638,774
BACKING UNIT FOR WALL OPENINGS
Ernest Wieman, Tomah, Wis.
Application November 30, 1949, Serial No. 130,899
4 Claims. (Cl. 72—124)



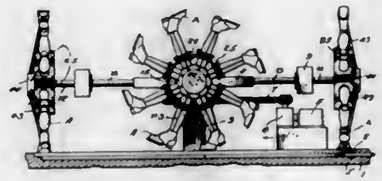
4. In a wall repair unit, the combination which comprises a backing plate having an opening therethrough, an internally threaded nut having pins at the sides positioned to register with the opening in said backing plate, bearing elements mounted on the backing plate and positioned to receive the pins of the nut, a base plate having a socket thereon and a stem extended through and threaded in said nut and positioned with one end thereof rotatably mounted in the socket of the base plate.

2,638,775
TESTING DEVICE FOR IRONS
Frank M. Murphy, Chicago, Ill.
Application May 9, 1950, Serial No. 160,874
5 Claims. (Cl. 73—1)



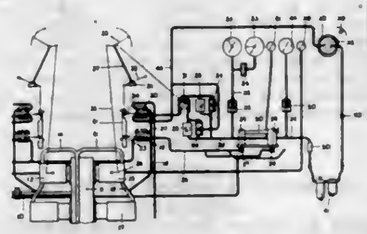
1. A testing device for irons or the like, comprising a frame having openings therein providing outlets for the dissipation of heat, a platform mounted upon said frame and adapted to support an iron, a thermometer mounted upon said frame and having the temperature sensitive portion thereof in heat exchange relation with said platform, a thermal responsive fuse mounted upon said frame in spaced relation with said platform and being adapted to interrupt an electric circuit when the temperature of the fuse reaches a predetermined value, a heat transfer member extending between said fuse and platform and being in heat exchange relation therewith, and an electric circuit through said fuse for heating an iron, whereby the temperature of an iron being heated upon said platform is transferred through said heat exchange member and to said fuse and is also indicated by said thermometer, while heat transferred through said platform is dissipated through said openings with the result that said fuse interrupts said circuit only when the temperature of an iron being heated exceeds a predetermined value.

2,638,776
MECHANICAL FOOTWEAR TESTING MACHINE
Andrew A. Aines, United States Army, Petersburg, Va.
Application August 1, 1947, Serial No. 765,619
6 Claims. (Cl. 73—7)
(Granted under Title 35, U. S. Code (1952), sec. 266)



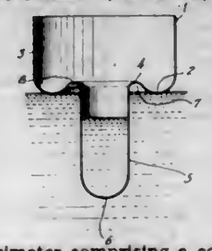
6. Footwear testing apparatus comprising a circular track, a rotatably mounted hub spaced above the track on a horizontal axis, artificial legs and feet radiating from said hub, each leg composed of upper and lower spaced-apart sections, bolt-receiving means secured to the adjacent ends of said sections, a compression spring interposed between the adjacent ends of said sections, and bolts positioned in the bolt-receiving means for adjusting the angular relation between the sections.

2,638,777
MEANS FOR SETTING OR TESTING HYDRAULIC SHOCK ABSORBERS
Francis Antony Dawson Sadler, Birmingham, England, assignor to Girling Limited, Birmingham, England, a British company
Application May 22, 1951, Serial No. 227,565
In Great Britain May 23, 1950
11 Claims. (Cl. 73—11)



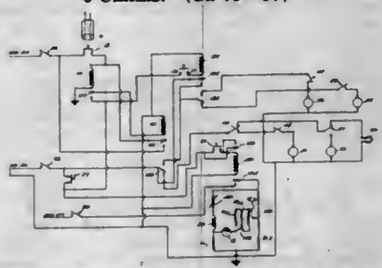
1. Apparatus for setting hydraulic dampers of the direct-acting type in which damping of relative movement between two parts is effected by the flow of oil or other liquid through valves located in the piston and in the cylinder closure of a cylinder and piston assembly, comprising a closed circuit for liquid, means for holding a damper and connecting it into said circuit, a power-driven pump for feeding liquid into the circuit at a rate of flow substantially greater than the maximum rate which can be passed through the damper, means for adjusting a valve in the damper while liquid is passing through it, means for controlling the flow of liquid in the circuit independently of the damper, and means for indicating the pressure and rate of flow of the liquid at points in the circuit.

2,638,778
VISCOSIMETER
Elmer P. Miller, Irvington, N. J.
Application July 29, 1946, Serial No. 41,240
3 Claims. (Cl. 73—54)



1. A viscosimeter comprising a container having a main cylindrical cup-like body, a coaxial measuring cup of smaller diameter than said body projecting from the bottom thereof and formed with a coaxial liquid inlet orifice, a coaxial annular rib at the zone juncture of said cup with the bottom of said body, and a transverse groove in said rib leading from said cup into said body to indicate a liquid level in said cup.

2,638,779
APPARATUS FOR DETERMINING CONSISTENCY OF MATERIALS
James S. Wilson, Brookline, Mass.
Application August 20, 1949, Serial No. 111,531
6 Claims. (Cl. 73—57)

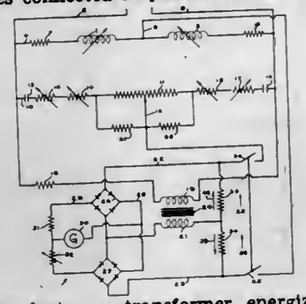


1. In an instrument for testing a substance by determining its resistance to the force of another body acting thereon, in combination, a vertically disposed hollow electromagnet, a vertically movable plunger disposed in said electromagnet, said electromagnet being arranged to produce a fixed magnetic flux tending to support said plunger within said electromagnet and further arranged to produce a variable plunger-supporting magnetic flux, means for reducing said variable flux until the plunger moves downwardly in controlled fashion a predetermined amount relatively to said electromagnet and against a substance being measured, and means for indicating the total flux reduction and thus the resistance of said substance to the body contact force imparted thereto by said plunger.

2,638,780
STRAIN MEASURING CIRCUIT
Frank L. Holford, Towson, Md., assignor to The Black & Decker Manufacturing Company, a corporation of Maryland
Application April 5, 1948, Serial No. 18,889
14 Claims. (Cl. 73—88.5)

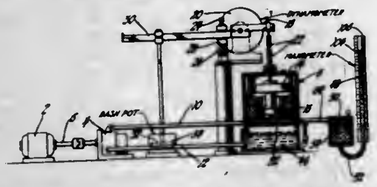
1. A strain gage circuit comprising a bridge circuit, having two output terminals, a pair of

inductors whose relative inductance values are varied in accordance with the strain to be measured in one branch of said circuit, one on each side of one output terminal of said circuit, a source of alternating current for energizing said bridge circuit, a sliding arm potentiometer in the other branch of said circuit, comprising the other two legs of said circuit, the sliding arm of which constitutes the other output terminal of said circuit, a two branch balanced indicating circuit comprising a common conductor and two branches connected in parallel across the com-



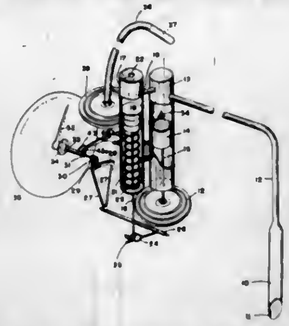
mon conductor, a transformer energizing the common conductor in the balanced indicating circuit from the source of alternating current, a rectifier bridge in each branch of the balanced indicating circuit having their output terminals connected in series and a current responsive instrument connected between their respective output terminals, means to impress an added current on said two branch balanced circuit when said bridge circuit is unbalanced comprising a pair of impedance elements, one in each branch of the indicating circuit, said elements being series connected across the output terminals of said bridge circuit to indicate a change in the values of the inductors when the gage is placed under strain.

2,638,781
FORCE MEASURING APPARATUS
Archie D. McDuffie, Berkley, and Warren H. Smith, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 6, 1948, Serial No. 53,072
5 Claims. (Cl. 73—134)



1. A multirange force indicating means including; two pistons of different diameters coaxially located and axially displaced from each other and having mating cylinders, said pistons rigidly attached together and mechanically secured to a member capable of exerting force on said pistons, means for selectively introducing fluid under pressure to actuate either the smaller piston, or to actuate both pistons simultaneously, so as to exert a force in opposition to said first mentioned force, and means to measure the pressure of said fluid and thus determine the magnitude of said first mentioned force.

2,638,782
TRUE AIR SPEED INDICATOR
Sam L. Leach, Louisville, Ky.
Application June 18, 1947, Serial No. 755,275
10 Claims. (Cl. 73—182)
(Granted under Title 35, U. S. Code (1952), sec. 266)



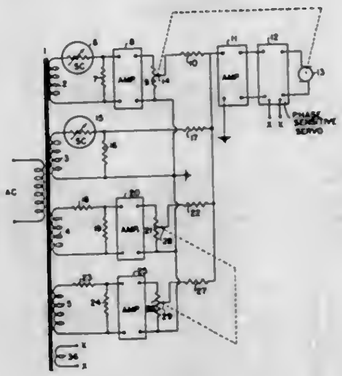
7. In air speed measuring apparatus of the character disclosed for use aboard aircraft, in combination, a cylinder having two apertures of different sizes in the two ends thereof respectively, a piston disposed within said cylinder, spring means disposed within said cylinder and normally biasing said piston at a predetermined position therein, an additional cylinder, a pair of conduit means connecting the ends of said cylinder to the ends of said additional cylinder respectively, suction head means adapted to be disposed on the outside of said aircraft and communicating with said additional cylinder, said suction head means, additional cylinder, conduit means, and apertures providing an arrangement whereby a pressure differential is applied to the opposite sides of said piston while the aircraft is moving, said piston being positioned in accordance with the magnitude of said pressure differential, indicator means operatively connected to said piston and responsive to changes in said differential, temperature responsive means, and means operatively connecting said temperature responsive means to said indicator means, said indicator means being constructed and arranged to provide an air speed measurement corrected for air temperature.

2,638,783
RELATIVE HUMIDITY MEASURING APPARATUS
Edmund S. Rittner, Peekskill, and Samuel Fine, New York, N. Y., assignors to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application February 8, 1949, Serial No. 75,118
3 Claims. (Cl. 73—338)

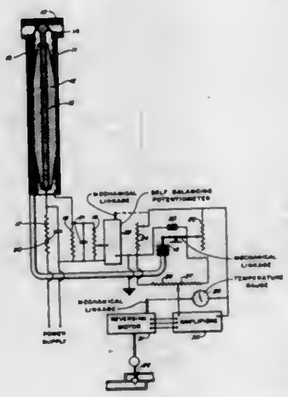
1. A device for measuring relative humidity in air comprising first and second semi-conductors each having a conductance σ conforming to the relationship

$$\sigma = \sigma_0 \epsilon^{\frac{-U}{kT}}$$

where σ_0 is the conductance of the semi-conductor at an infinite temperature, U is the activation energy of the semi-conductor and has a value equivalent to the latent heat of evaporation of water at a given temperature, k is a constant having the same units as U per degree of temperature, and T is the absolute temperature, means to maintain the first semi-conductor at the ambient temperature of air, means to maintain the second semi-conductor at the dew-point temperature of air, and means to measure the ratio of the conductances of the two semi-conductors to thereby obtain a quantitative determination of the relative humidity of the air.



2,638,784
TEMPERATURE SENSING DEVICE
Richard S. Cesaro and Robert J. Koenig, Cuyahoga County, Ohio
Application March 19, 1951, Serial No. 216,448
3 Claims. (Cl. 73—339)
(Granted under Title 35, U. S. Code (1952), sec. 266)



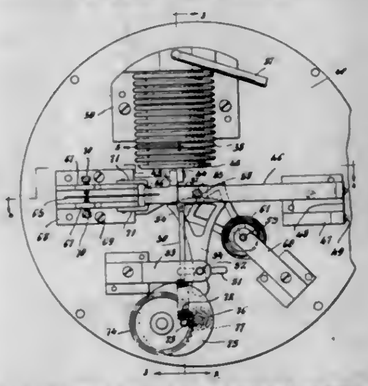
1. A device for sensing the temperature of a gas consisting of two electrodes forming a spark gap, said electrodes immersed in the gas, means for sensing the static pressure of the gas at the spark gap, means for determining an average spark-over voltage, means for dividing the pressure sense by the average spark-over voltage and thereby obtain an output proportional to stream static temperatures.

2,638,785
COMBINED REARVIEW MIRROR AND THERMOMETER FOR MOTOR VEHICLES
Michael C. Vacanti, Irondequoit, and Clarence Granata, Canandaigua, N. Y., assignors to Germanow-Simon Machine Co., Inc., Rochester, N. Y., a corporation of New York
Application October 12, 1950, Serial No. 189,858
3 Claims. (Cl. 73—367)



1. An indicator embodying a casing having front and rear walls, the front wall including a laterally extensive scale at its top portion, and the rear wall being fitted with a forwardly projecting stud below the scale, a bi-metal spring coil carried on the stud and terminating in a vibratory index arm cooperating with the scale, and a damper brake in the form of an elongated gravitationally self-erecting arm loosely pivoted on the stud between the rear wall of the casing and the coil and having an interlocking but lost motion connection with the index arm.

2,638,786
RATE OF RISE-DIVE INDICATOR
Percy B. Levitt, Millburn, and John D. Morgan, South Orange, N. J., assignors, by mesne assignments, to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey
Application May 23, 1947, Serial No. 750,100
2 Claims. (Cl. 73—397)



1. A pressure gauge comprising a pressure sensitive member which is adapted to be displaced in proportion to pressure applied to its interior, means for connecting said member to a pressure system, a multiplying sector, a pivotally mounted bar attached to said pressure sensitive member and connecting the member and the sector, a pinion meshed with the sector, a shaft driven by

the pinion, a pointer carried by the shaft, a second sector meshed with the pinion, a hair spring connected to said second sector and serving to hold both of the sectors meshed with the pinion, a leaf spring mounted in the fore end of said pivotally mounted bar, a pair of spaced stop elements disposed on opposite sides of said leaf spring, said stop elements serving to allow free movement of said bar and pressure sensitive elements within predetermined limits, and to cause said spring to oppose such movement beyond said limits, a second pair of stop elements mounted in opposing relation on opposite sides of said bar to limit movement of the bar and pressure sensitive member, a coil spring connected at one of its ends to said bar and means connected to the other end of said coil spring for varying the tension applied to said bar to adjust the zero position of said pressure sensitive member and of said pointer.

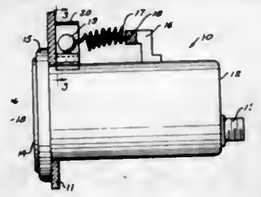
2,638,787
PIPETTE, BURETTE, AND THE LIKE
Ernest Edward Flaig and Edward John Flaig, London, England
Application June 8, 1951, Serial No. 230,552
In Great Britain September 29, 1950
3 Claims. (Cl. 73—425.6)



1. A pipette comprising an upper tubular member, a calibrated lower tubular member connected therewith by engagement of a tapered ground end portion of the one within a tapered ground bore at an end of the other to form a ground taper joint, projections on the upper and lower tubular members, resilient connectors arranged on said projections and serving to retain the ground portions in engagement, and an apertured cylinder in slidable engagement as a push fit with the upper tubular member to form therewith a syringe for filling the pipette.

2,638,788
INSTRUMENT VIBRATING DEVICE
George R. Larkin, Dayton, Ohio
Application March 14, 1950, Serial No. 149,622
9 Claims. (Cl. 73—432)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In combination with an indicating instrument, a spring rigidly attached at one end in vibratory contact with said instrument, a weight made of rigid material attached at the free end of said spring, a cage of rigid material substantially surrounding said weight, but leaving it free to oscillate, said cage being mounted in vibration-transmitting contact with said instrument whereby vibration transmitted to said weight will



cause the weight to oscillate and to strike said cage repeatedly so that the resulting vibration of the cage will be transmitted to the instrument.

2,638,789
STEP-UP MECHANISM
Melvin J. Binks and Alphonse A. Samolis, Chicago, Ill., assignors to Republic Patent Corporation, Chicago, Ill.
Application April 25, 1951, Serial No. 222,912
7 Claims. (Cl. 74—158)



1. A step-up mechanism of the class described comprising a support, a shaft rotatably supported by said support, a disc bearing a plurality of contacts supported by said support, a wiper finger on one end of the shaft and adapted for successive engagement with the contacts of said disc, a first ratchet wheel on said shaft, a second ratchet wheel arranged in confronting spaced relation with respect to said first ratchet wheel, means for connecting said ratchet wheels in said spaced relation with respect to each other, the teeth of said first ratchet wheel extending in a direction opposite to that of the teeth of the second ratchet wheel, means for successively engaging the teeth of the first ratchet wheel to rotate said ratchet wheels in one direction, means for successively engaging the teeth of the second ratchet wheel for rotating said ratchet wheels in an opposite direction and means for holding one of said ratchet wheel rotating means while the other of said ratchet wheel rotating means is effective to rotate said ratchet wheels, said last-named means including cam frames extending from one end of each of said ratchet wheel rotating means and adapted to cam the ineffective ratchet wheel rotating means out of engagement with its respective ratchet wheel.

2,638,790
ROLLER DRIVE CHAIN
Emil E. Perron, Worcester, Mass.
Application October 21, 1950, Serial No. 191,454
2 Claims. (Cl. 74—254)

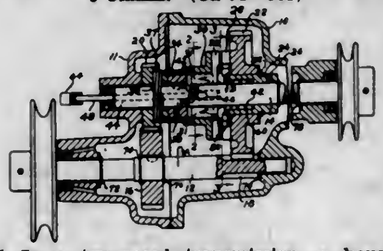
1. A roller drive chain comprising a series of connected drive units, each of which has a pair of spaced side links, axially parallel bushings connecting the links and a roller mounted on each

bushing, and a link, pintle and cotter pin assembly which holds two units connected comprising pintles pivotally mounted within and projecting outwardly at both ends from the bushings of adjacent units, two outer links pivotally mounted on the outwardly projecting pintle ends and connecting the same, means for holding one outer link on the pintles, the pintles having axially aligned diametrical holes near their ends immedi-



ately outside of the other associated outer link, and a cotter pin shaped to provide two axially aligned end portions mounted in said holes and two U shaped arms between the end portions which extend in opposite directions and lie flat against said associated outer link in contact with the opposed pintles and so prevent both endwise movement and rotation of the pin relative to the pintles, whereby the pin holds the pintles permanently and non-rotatively assembled relative to said associated link.

2,638,791
TRANSMISSION
John P. Rogers, Liverpool, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application February 14, 1952, Serial No. 271,474
5 Claims. (Cl. 74—368)

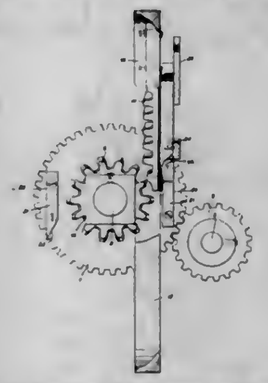


1. In a two-speed transmission, a housing, spaced parallel drive and driven shafts journaled in said housing, a high speed gear train and a low speed gear train having driving gears keyed on said drive shaft and driven gears freely rotatably mounted on said driven shaft, a member slidably mounted on said driven shaft between the driving gears of said gear trains and keyed for rotation with the driven shaft, said member and the driven gear of said low speed gear train having interengageable jaw clutch teeth engaged by moving said member toward the low speed gear train, normally disengaged overrunning clutch means for coupling said high speed driven gear to said driven shaft, and means carried by said member for initially engaging said overrunning clutch upon movement of said member toward said high

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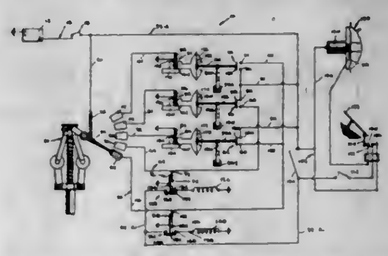
2,638,792
MOLD DISK DRIVING MECHANISM FOR TYPOGRAPHICAL CASTING MACHINES
Paul Hilpman, Garden City, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application July 19, 1950, Serial No. 174,647
8 Claims. (Cl. 74—435)

1. In or for a typographical casting machine, mold disk driving mechanism comprising, in combination, a driving gear segment, a driven pinion, a bevelled element associated with the driven pinion, and a projection carried by the



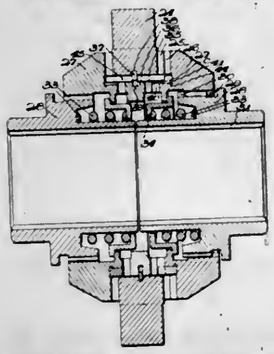
driving gear segment for contacting the bevelled element to impart initial acceleration to the driven pinion before the teeth of the gear segment and pinion come into engagement.

2,638,793
TRANSMISSION CONTROL SYSTEM
Anthony Winther, Kenosha, Wis., and Martin P. Winther, Gates Mills, Ohio, assignors, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 29, 1951, Serial No. 218,106
16 Claims. (Cl. 74—472)



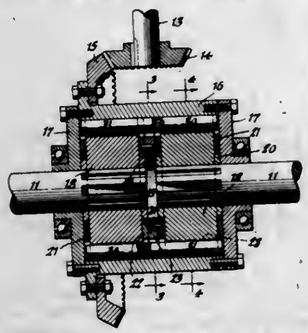
1. A control system for a prime mover driven transmission having a driven shaft, a plurality of power operated gear change mechanisms, a plurality of controlled elements including a pair of electromagnetic clutches, and a governor under the influence of the speed of the driven shaft; comprising an electrical power supplied network, an electrical circuit for controlling the operation of one of the clutches connected in the network including a set of normally open contacts, an electrical circuit for controlling the operation of the other clutch connected in the network including a set of normally open contacts, electrically operated switch means one for connecting the contacts of each clutch circuit, a plurality of electrical control circuits, one for each mechanism, means adapted to be actuated by governor for connecting the circuits for the mechanisms with the network and for connecting the switch means with the network and mans actuated by the mechanisms for connecting the switch means with the network.

2,638,794
DIFFERENTIAL MECHANISM
Frederick D. Knoblock, Birmingham, Mich., assignor to Patent Developers, Inc., Detroit, Mich., a corporation of Michigan
Application April 13, 1949, Serial No. 87,280
22 Claims. (Cl. 74—650)



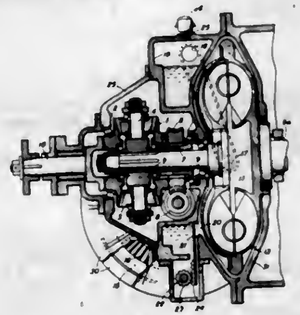
1. In a differential for a pair of opposed axles characterized by meshing and demeshing driving and driven clutch and cam members, one set of clutch and cam members being demeshed by axial movement against spring pressure when its associated axle overruns, the provision of a toothed ring movable axially with the demeshed clutch and cam members and rotatable in one direction relative thereto to prevent remeshing during overrunning and rotatable in the opposite direction to permit remeshing when overrunning ceases and underrunning takes place the teeth on said ring being slightly shorter than the cam teeth on the driven member.

2,638,795
DIFFERENTIAL DRIVE MECHANISM
Manley E. King, Springville, N. Y.
Application February 6, 1951, Serial No. 209,655
4 Claims. (Cl. 74—650)



1. A differential mechanism, comprising a driven casing into which the opposing ends of alined axle-sections are adapted to extend, hub members applied to said axle-sections in endwise spaced relation and concentrically spaced within the casing, rings journaled on the opposite ends of said hub members and having equi-spaced roller-retaining notches therein, a division plate disposed in the endwise space between the hub members and including two substantially semi-circular segments having roller-engaging notches therein and each secured to a companion adjoining hub-ring for permitting a limited relative turning movement of the respective hub-rings, and rollers disposed between said hub members and said driven casing for releasably transmitting motion from the latter to the former and seated at their opposite ends in said ring-notches, certain of the rollers of each hub member being longer than the others and extending into registering relation with the notches of the companion division plate segment, the longer rollers of one hub member being alined with and in endwise abutting engagement with the shorter rollers of the other hub member and the outer ends of the respective rollers abutting the inner end walls of said driven casing.

2,638,796
VARIABLE-SPEED TRANSMISSION
Harvey B. Black, Bogota, N. J.
Application April 19, 1950, Serial No. 156,890
3 Claims. (Cl. 74—687)

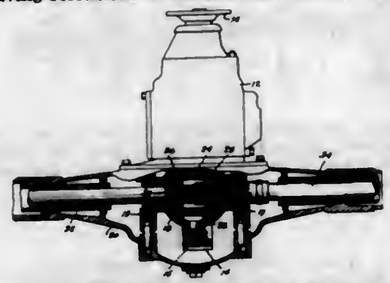


1. A variable speed transmission including, in combination, an epicyclic gear train having two sun gears, a planet gear intergearing these sun gears, and a train arm mounting this planet gear; a shaft, means connecting said shaft with said train arm, a worm gear wheel connected with one of said sun wheels, a worm gear screw meshed with said gear wheel and having a pitch frictionally locking this wheel from turning this screw, a power output shaft connected with the other of said sun gears, a liquid centrifugal pump connected with and rotated by said shaft, a turbine connected with and rotating said screw, means conducting liquid from the output of said pump to said turbine, a liquid storage chamber connected with the exhaust of said turbine, and a flow-control valve connecting said chamber with the intake of said pump.

2,638,797
AXLE AND DIFFERENTIAL LOCK
Adolph J. Gross, Chicago, Ill.
Application August 8, 1951, Serial No. 240,923
1 Claim. (Cl. 74—710.5)

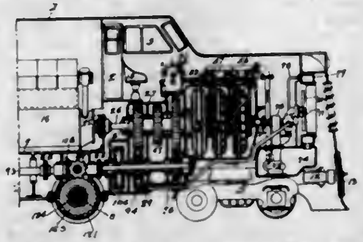
Apparatus for locking both rear axles of an automotive vehicle together for driving of both wheels at the same rate of speed, which comprises in combination with a differential having a pair of bevel gears of the same size, one of said bevel gears having an enlarged internal spline construction, a pair of identical aligned axles of ordinary construction including abutting splined ends extending through said bevel gears and

driven by the differential, a thin sleeve member telescopically mounted on one of said splined axles capable of movement to encompass the splined end of the other axle thereby locking both axles into a single driven medium, said sleeve member having serrations of the same size throughout its



length to receive the splines of the aligned axles, and serrations part way on its periphery to drivingly engage in the enlarged internal spline construction in the bore of the bevel gear of the differential through which it is telescoped, and means connected to said sleeve member for effecting reciprocal movement of the same.

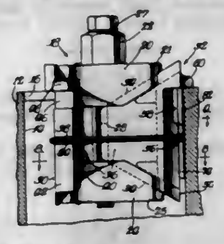
2,638,798
RAILROAD LOCOMOTIVE
Frank B. Yingling, Hamilton, Ohio; The First National Bank and Trust Company of Hamilton, Hamilton, Ohio, executor of said Frank B. Yingling, deceased
Application August 6, 1947, Serial No. 766,821
6 Claims. (Cl. 74—732)



1. In a hydraulic transmission, the combination with a plurality of united impeller housings having bearing hubs, and a solid drive shaft rigid with the housings and extended through said hubs, of a plurality of superimposed driven shafts concentrically mounted on the drive shaft extending through and therminating in complementary hubs, a turbo-runner enclosed in each housing and having a hub rigid with a driven shaft, journal bearings interposed between complementary housing-hubs and runner-hubs, and journal bearings interposed between each housing and a driven shaft.

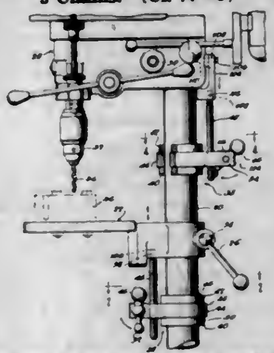
2,638,799
RIDGE REAMER
Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois
Application September 18, 1950, Serial No. 185,396
5 Claims. (Cl. 77—2)

1. A rotatable cylinder ridge reamer comprising top and bottom end members movable toward and from each other to expand and contract the reamer, respectively, opposing faces of each of said end members having a plurality of grooves extending tangentially to a base circle concentric with the axis of rotation of the reamer, means for moving said end members toward each other to expand the reamer including a member disposed on the axis of the reamer within the confines of said base circle and threadedly engaged with one of said end members and slidable through the other, guide members disposed between and guidingly supported by said end members, each said guide member having a body element and a head element with the top and bottom edges of said body element converging inwardly away from



said head element and slidably mounted in said end member grooves for slide movement inwardly and outwardly past the axis of the reamer, each said head element extending circumferentially from the outer edge of its respective body element to such an extent that it moves in a radial plane through said axis as said body element is moved inwardly and outwardly of said end member grooves, means for supporting the ridge reamer as a whole for rotation in a cylinder to be reamed, a reamer blade assembly carried by one of said head elements and adapted to engage the cylinder ridge to be reamed, and means yieldably retaining said guide members in said end member grooves and constantly urging said guide members inwardly.

2,638,800
TABLE OR HEAD POSITIONING ATTACHMENT FOR DRILL PRESSES AND THE LIKE
Russel E. Frushour, South Bend, Ind., assignor to South Bend Lathe Works, South Bend, Ind., a corporation of Indiana
Application May 19, 1951, Serial No. 227,173
3 Claims. (Cl. 77—5)



1. In a device for positioning a machine component along a shaft, first and second collars fix-

edly secured to said shaft, a base disposed between said collars, said collars preventing movement of said base axially along said shaft but permitting rotation about the shaft, a gear held on said base and free to rotate with respect to said base, a worm held on said base and free to rotate with respect to said base, said gear and worm being in meshed relationship, a screw threaded axially through said gear and having an end portion spaced from said gear, means connecting said end portion of said screw to said machine component, said machine component being supported on said shaft by said screw and said machine component and screw being moved axially of said shaft when said gear and worm are rotated, a second shaft carrying said worm, and a handle secured to said second shaft.

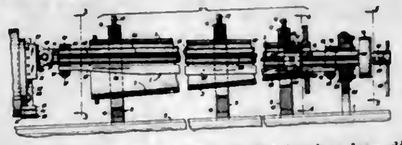
2,638,801
CASING PERFORATOR
Ralph J. Klaasen, Lompoc, and Eugene M. Olsen, Avenal, Calif.
Application June 21, 1948, Serial No. 34,184
10 Claims. (Cl. 77—7)



1. A casing perforator comprising a body adapted to be lowered into a well casing by a run-in string of pipe, means for setting the body into the casing so that the run-in string of pipe may be rotated relatively thereto, one or more drills mounted on said body for rotation and projecting movement relatively thereto, means providing a driving connection between the run-in string of pipe and the drill so that upon rotation of the run-in string relatively to the body the drills may be rotated thereby, means operable by the run-in string for urging the drills outwardly, said drills being hollow, and means providing a communicating passage between the run-in string of pipe and the interiors of said drills whereby circulation fluid may be discharged through the drills.

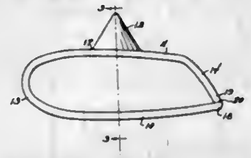
2,638,802
BORING IMPLEMENT
Albert F. Froussard, St. Louis, Mo.
Application September 26, 1949, Serial No. 117,864
4 Claims. (Cl. 77—56)

1. A boring implement comprising a rotatable boring bar having a longitudinal groove, a planetating feed screw carried by the bar in the groove, a cutter head axially slidable on the bar, said cutter head being in the form of a collar encircling and having a sliding fit on the bar and carrying a nut extending into the groove threaded on the screw and keying the cutter head to the bar for rotation therewith and axial movement therealong, a cutting tool projecting substantially radially from the head, and a stiffening beam consisting of a bar rigidly fixed at its ends to the boring bar to turn therewith extending par-



allel to and closely adjacent the boring bar diametrically opposite the cutting tool, the cutter head being in sliding engagement with the stiffening beam.

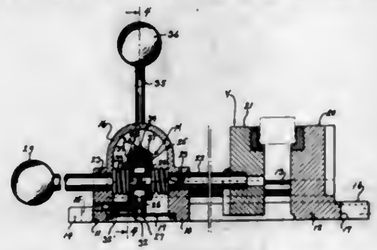
2,638,803
HAND ANVIL
Alton C. Williams, San Angelo, Tex.
Application July 9, 1951, Serial No. 235,771
2 Claims. (Cl. 81—15)



2. In a hand anvil, a band fabricated of a single piece of material and shaped to provide a continuous loop including a base section, an upper section arranged in spaced relation with respect to said base section, an arcuate section interconnecting one end of said base section to an end of said upper section, an end section extending angularly from the other end of said upper section for connecting the upper section to the other end of said base section, a conical shaped projection extending from the outer surface of said upper section, said loop adapted to receive the fingers of the user's hand, said conical shaped projection being connected to the band, the free end of said end section being secured to said base section, there being an opening in said upper section intermediate the sides and ends thereof, a stud formed integral with said projection and being of reduced diameter, said stud extending through said opening and having its inner surface lying flush with the inner surface of said upper section.

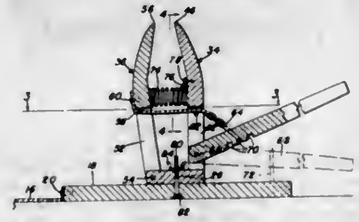
2,638,804
ACTUATING MEANS FOR ADVANCING AND LOCKING JAWS OF VISES AND LIKE FIXTURES
Robert C. Heinrich, Racine, Wis.
Application January 9, 1952, Serial No. 265,590
5 Claims. (Cl. 81—17)

1. In a continuous advancing and locking mechanism for vises, machine fixtures and the like, a base, a bar slidably carried by the base, an advancing and locking plate on the base receiving the bar and movable from a released vertical position at right angles to the longitudinal axis of the bar to a tilted bar locking position at an acute angle to the longitudinal axis of the bar, the bar being freely slidable through the plate when the plate is in its released vertical position, a holding plate on the base receiving the bar and movable from a vertical released position at right angles to the longitudinal axis of the bar to a tilted bar holding position at an acute angle to the longitudinal axis of the bar, said holding plate being at a less angle to the vertical in its tilted holding position than the advancing and locking plate when said advancing and locking plate is in its tilted posi-



tion, spring means normally holding the plates in their released vertical position, and manual means for tilting the plates in opposite directions including a rockable cam shaft carried by the base, formed with opposite cam faces of different characteristics, and disposed between the plates and engaging the plates.

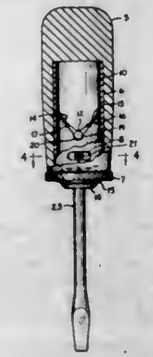
2,638,805
LAP VISE AND BENCH
Benjamin E. Bigelow, Warren, Pa.
Application June 2, 1952, Serial No. 291,183
1 Claim. (Cl. 81—21)



A vise comprising a bench, a vise structure carried by said bench, said vise structure including a base having a pair of clamping members extending upwardly therefrom, said clamping members having inwardly sloping cooperating jaws at the upper ends thereof, means urging said jaws apart, means for moving said jaws together, one of said clamping members being rigidly secured to said base, the other of said clamping members being pivotally connected to said base, said means for moving said jaws together comprising a lever pivotally connected to said rigidly secured clamping member, a flexible member connecting said lever to said pivotally connected clamping member, and said flexible member having a looped end portion selectively engageable with notches in said lever.

2,638,806
REVERSIBLE IMPACT DRIVING SCREW DRIVER AND FUNCTIONAL ELEMENTS THEREOF
James F. Spielman, Torrington, Conn.
Application May 2, 1952, Serial No. 285,743
4 Claims. (Cl. 81—52.3)

1. In a reversible impact driving screwdriver, a body having a cylindrical interior opening therefrom, an impact sleeve carried concentrically within said cylindrical interior of said body, said impact sleeve diminishing symmetrically from two diametrically opposite points thereon to the outward-facing end thereof whereby to comprise four angular inclines and a pair of diametrically opposite guide points, said impact sleeve being manually rotatively adjustable in said body to a limit in either direction and to a normal intermediate point, a centering sleeve aligned concentrically with and outwardly from said impact sleeve, said centering sleeve being fixed within said body, said centering sleeve diminishing symmetrically from two diametrically opposite points thereon to the inward-facing end thereof whereby to comprise

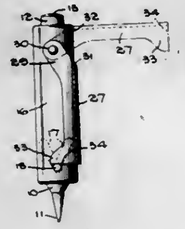


four angular inclines, a drive piston carried concentrically in said centering sleeve and said impact sleeve, said drive piston being slidable and rotatable relative to said centering sleeve and said impact sleeve, said drive piston having means thereon for fixing a screwdriver working blade thereto, a compression spring urging said drive piston outwardly from said centering sleeve and said impact sleeve, and a drive pin means carried diametrically through said drive piston and normally engaging a space between the farthest outward-facing end of said impact sleeve and the nearest inward-facing end of said centering sleeve, whereby said impact sleeve and said centering sleeve function with said drive pin in a plan of cooperating angular inclines.

2,638,807
LONGITUDINAL DELIVERED ROTARY IMPACT TOOL
John Charles Sharman, Birmingham, England, assignor to Garringtons Limited, a British company
Application December 6, 1950, Serial No. 199,403
In Great Britain December 16, 1949
3 Claims. (Cl. 81—52.35)

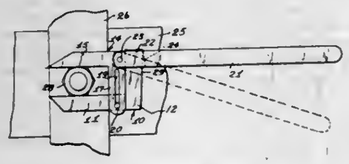
1. A manually operable tool for the purpose described comprising a tubular body open at one end, a tool carrying element slidable within the open end of said body axially thereof and adapted operably to engage with the work, said body having closed ended slots in opposite sides of its tubular wall, said slots being oppositely inclined to an equal extent to the longitudinal axis of said tubular body, projections on the opposite sides of said tool carrying element working one within each slot and extending therethrough beyond the periphery of the adjacent part of the tubular body, an abutment rigid with said body within the interior thereof spaced axially of said

tool carrying element, a compression spring acting between said abutment and said tool carrying element adapted to displace the latter towards the open end of said body to the extent permitted by the engagement between the projections and the slot ends, said tubular body having a striking head on the end thereof remote from the tool carrying element, a handle hinged to said tubular body about an axis transverse to the body axis



at a position adjacent the striking head and adapted to pivot relative to the body between an operative position in which it extends substantially at right angles to the body axis to an inoperative position in which it extends along the length of the tubular body adjacent its exterior, and said handle in its inoperative position engaging said projections and retaining them against movement in a direction along the length of the slots.

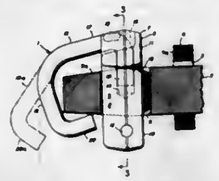
2,638,808
LEVER ACTUATED SLIDABLE JAW WRENCH
Ben E. Arnold, Port Orchard, Wash.
Application December 13, 1951, Serial No. 261,403
1 Claim. (Cl. 81—126)



In a wrench of the character described comprising an L-shaped fixed jaw, a second L-shaped jaw slidably secured to the said first-mentioned jaw and in confronting relation thereto, a handle having a bifurcated end pivotally secured to said first mentioned jaw, said bifurcated end surrounding the secured right angular leg of second mentioned jaw whereby pivotal movement of said handle in one direction will effect a gripping action between the confronting portions of said jaws.

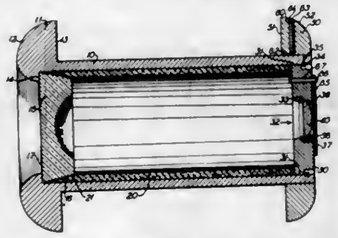
2,638,809
DRAFT KEY RETAINER
Emil H. Blattner, Buffalo, N. Y., assignor to The Symington-Gould Corporation, Depew, N. Y., a corporation of Maryland
Application July 8, 1949, Serial No. 103,675
3 Claims. (Cl. 85—8.1)

1. In a draft key retainer, the combination of, a body portion comprising a shank having a crosshead at one end thereof, an intermediate portion of said shank being substantially round to fit into an aperture of said draft key, and areas of said shank at each end of said intermediate portion and including said crosshead



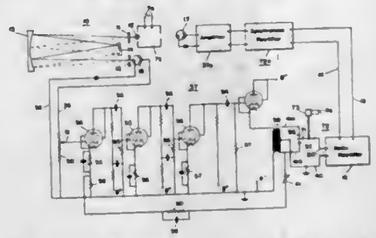
presenting flat coplanar surfaces inset from said intermediate portion and disposed parallel to the axis of said retainer.

2,638,810
DOOR PEEP OBSERVATION DEVICE
George H. Berleme, Brooklyn, N. Y.
Application May 24, 1951, Serial No. 227,997
1 Claim. (Cl. 88—1)



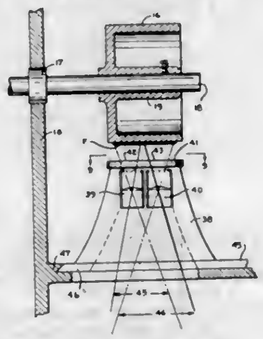
An observation device adapted for installation in a door hole comprising a tube of substantially door hole diameter and having a rim-like facing at one end, the inner and outer diameters of said facing being respectively smaller and larger than the respective inner and outer diameters of said tube to provide inner and outer shoulders therefor, a concave wide-angle negative lens with its major diameter substantially that of the inside of the tube and positioned in the faced end of the tube with the flat face of the lens seated against said inner shoulder, a thin-walled liner in the tube having one end in edge abutting relation with the lens, an end plate mounted in the other end of said tube, said end plate having a peripheral shoulder at its inner edge in abutment with the other end of said liner, an inner circumferential groove in said other end of said tube adjacent said end plate, a spring ring positioned in said groove and abutting against said end plate shoulder for locking said end plate against the said other end of the liner, an axial bore hole in said end plate, an inwardly extending flange portion depending from the outer end of said bore hole, an inner circumferential groove adjacent the inner end of said bore hole, a convex positive lens mounted in said bore hole between said flange and said groove, a spring ring mounted in said groove and locking said lens against said flange, and a locking collar encircling the other end of the tube, whereby the observation device may be locked in the door hole by the clamping engagement of the outer and inner door sides between the outer facing shoulder of the tube and the tube locking collar.

2,638,811
PULSE AMPLIFIER SYSTEM FOR SPECTROGRAPHIC ANALYSIS
Albert J. Williams, Jr., Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 22, 1950, Serial No. 157,541
12 Claims. (Cl. 88—14)



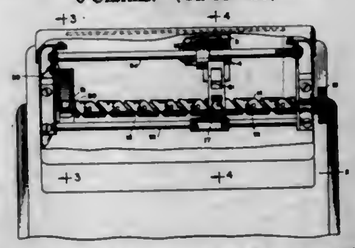
1. In combination, an A. C. amplifier having an input circuit for application thereto of pulses at a predetermined repetition rate, an output circuit in which there appears an output signal including amplified pulses corresponding with those applied to said input circuit, a negative feedback circuit between said output and input circuits including impedance elements one of which ponents of said pulses and a high impedance for lower frequency components of said pulses to maintain the output signal uniform between said pulses, a synchronous rectifier in said output circuit inherently subject to phase shift producing spurious output signals, and means for operating said synchronous rectifier to produce its switching operations during the time said output signal level is maintained substantially uniform in avoidance of production of spurious output signals due solely to small shifts in phase in operation of said rectifier.

2,638,812
LENS MOUNTING AND FILM SUPPORT FOR MICROFILM APPARATUS
Verneur E. Pratt and George F. Gray, Norwalk, Conn.
Original application March 7, 1947, Serial No. 732,971, now Patent No. 2,538,269, dated January 16, 1951. Divided and this application September 23, 1949, Serial No. 117,426
6 Claims. (Cl. 88—24)



1. In a microfilm camera employing moving film and adapted to move said film across a photographic zone, in combination, a supporting frame member, means on said supporting frame member forming a transverse slideway in predetermined spaced relation with said zone, lens mounting means normally slidably retained in said slideway, a pair of substantially parallel lenses secured in said lens mounting means in predetermined spaced relation with said slideway, said mounting means carrying said lenses being slidable along said slideway into and out of said camera, and stop means on said frame member adapted to engage said mounting means for positioning said lenses in side-by-side operative optical alignment with said film in said zone a copy feeder and means for moving same in synchronism with said moving film, said lenses being focussed on copy carried on said feeder to produce images of said copy in side-by-side relation on said moving film, said copy comprising separate sheets of paper carried on said feeder.

2,638,813
OPTICAL VIEWING AND PROJECTING COMPUTING WEIGHING SCALE
Adrianus van Duyn, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind., a corporation of Indiana
Application September 21, 1950, Serial No. 185,973
In Great Britain March 20, 1950
6 Claims. (Cl. 88—24)

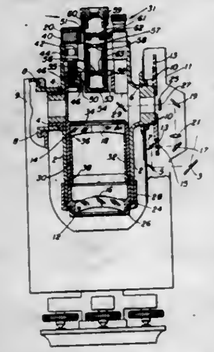


1. A computing weighing scale comprising a computed value chart on which the characters are arranged in a plurality of series each corresponding to a basic price, movable basic price indicating means on which the basic price characters are arranged about an axis substantially parallel to the axis of the computed value chart, means for moving said basic price indicating means to display individual basic price characters, viewing means for said computed values adjustable over said computed value chart from series to series, and adjustment means operable in response to movement of said basic price indicating means to effect simultaneous correlative adjustment of said viewing means with respect to said computed value chart, said viewing means comprising an optical projector including a light source arranged externally of said computed value chart and adapted to illuminate said chart, and means adapted to project a magnified image reflected from said chart.

2,638,814
REFLECTING TELESCOPE
Carl W. Keuffel, Bernardsville, Conway D. Hillman, East Orange, Allister L. Baker, Jersey City, and George Geier, Ridgefield, N. J., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application March 26, 1947, Serial No. 737,348
3 Claims. (Cl. 88—32)

2. In a theodolite having standards mounted for rotation about a vertical axis, a telescope

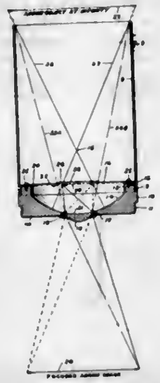
mounted for rotation about a horizontal axle with respect to said standards comprising a barrel shaped housing, a meniscus lens mounted in one end of said barrel shaped housing and having spherical surfaces to transmit light rays from an object, an eyepiece mounted in the other end of said barrel shaped housing on the same optical axis as said meniscus lens, a draw tube mounted within said barrel shaped housing between said meniscus lens and said eyepiece, said draw tube fitting accurately within said barrel shaped housing so that it can only move parallel to the optical axis of said meniscus lens and eyepiece, an optical element having a spherical reflecting surface and a central light transmitting opening mounted within said draw tube and centered on the optical axis of said meniscus lens and said eyepiece, said reflecting surface reflecting light rays passing



through said meniscus lens back toward said meniscus lens, a reflecting surface on the center of a spherical surface of said meniscus lens for reflecting the light from said spherical reflecting surface back toward the central light transmitting opening in said reflecting element, said meniscus lens and reflecting surfaces making up an objective combination which forms an image of the object, an extension on said draw tube extending toward the eyepiece end of said barrel, a knurled knob at the eyepiece end of said barrel shaped housing for moving by rotation thereof said draw tube through said extension in a manner which will not transmit strain to said draw tube to bring the image formed by the objective combination into the focal plane of said eyepiece and a reticle at a focal plane of the optical system.

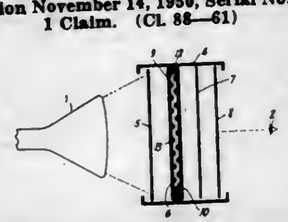
2,638,815
OPTICAL IMAGE FOCUSING APPARATUS
Charles R. Croy, Ecorse, Mich.
Application October 27, 1950, Serial No. 192,509
2 Claims. (Cl. 88—57)

1. An optical image forming apparatus, comprising a tubular member open at one end and closed at the other end by a removable end closure member, said tubular member having stray light reducing ribs on the inner periphery thereof, a concave reflective surface formed as a concave focusing mirror and carried by said end closure member, a centrally positioned opening in said end closure member, an image focusing lens supported in said opening, and a flat mirror supported in spaced axial relation with said lens and having its reflective surface lying on a plane common with the principal focal plane of said concave reflecting surface and at the shorter conjugate focus of said lens whereby an image of a distant object is focused by the concave reflective surface



upon the flat mirror and then by the lens upon a surface axially spaced beyond said lens.

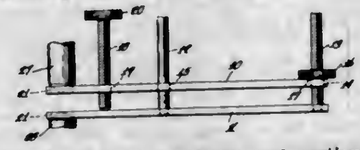
2,638,816
APPARATUS FOR PRODUCING TELEVISION IN COLOR
Milton M. Stoltzer, Uniondale, N. Y.
Application November 14, 1950, Serial No. 195,554
1 Claim. (Cl. 88—61)



A color adapter for television comprising a polarizing element, an isotropic substance and a pair of grids in said substance to transmit light from said element, a stationary bi-refringent screen of cellophane, said substance and said grid being located between said element and said screen, a conductor attached to each grid to impress electric potentials on said grids and create an electric field of stress in said substance, said element having the property of polarizing light in a plane at an angle of approximately 45 degrees to the direction of the stress in said field and said substance and said field having the property of elliptically polarizing the light from said element, the screen permitting light of only one color to pass it at predetermined variations in said potentials and an analyzer for the light transmitted by said screen.

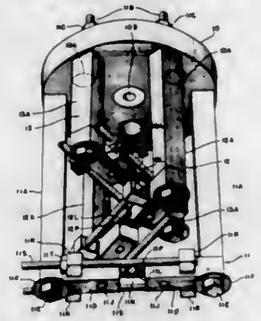
2,638,817
TOOL TRIMMING DEVICE
Preston M. Hall, Warren, Ohio
Application January 14, 1948, Serial No. 2,309
6 Claims. (Cl. 90—12)

1. A device for trimming spaced tools, such as the electrodes of an electric resistance welder, comprising: a pair of bar members in juxtaposition, said members at one end having circular recesses tapering inwardly toward each other from their outwardly directed surfaces; a pair of plug means complementarily tapered to securely fit within respective recesses, yet being readily removable therefrom, each of said plug means having a recess extending inwardly from its outwardly directed surface, and being adapted to receive that portion of the respective tool which is to be trimmed, each of said plug means recesses being contoured to correspond to the de-



sired contour of its respective tool portion, the defining wall surface of each plug means recess being formed with cutter edges for removing material from the tool portion; one of said bar members being pivotally carried by a pivot post carried by the other of said members; and screw means, on opposite sides of the pivot, for urging said plug means into pressure contact with respective tool portions.

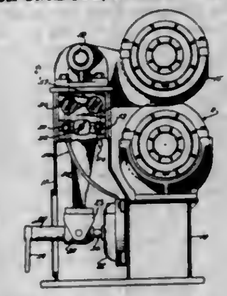
2,638,818
WIRE FINISHING METHOD AND APPARATUS
George John Stevens, Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio
Application July 25, 1949, Serial No. 106,705
6 Claims. (Cl. 90—33)



4. Apparatus for mechanically finishing metal wire stock, comprising, in combination, a centrally-orificed base plate through which orifice the metal wire stock is supplied, and a series of transversely and diametrically split, centrally-orificed cutting dies carried by and disposed in spaced relation both to said base plate and to each other, with their orifices in the axial prolongation through said base plate-orifice, the diametrically-disposed transverse split of each set of dies being angularly offset with respect to the split in the other set of dies.

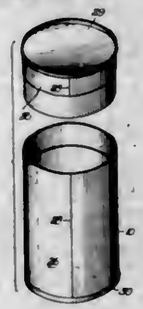
2,638,819
DIAPHRAGM CONTROL FOR PRESS ROLL ASSEMBLIES
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application March 18, 1948, Serial No. 15,596
6 Claims. (Cl. 92—49)

1. A press roll assembly comprising a pair of hollow end frames, stationary roll bearings on said frames, a first press roll rotatably mounted on said bearings, bell cranks having their fulcrums pivoted on said end frames and having bearing carrying arms extending from the frames above the first roll and depending arms extending into the chambers provided by the hollow frames, a second press roll mounted on the bearings of said bearing carrying arms and arranged to coact with the first press roll for providing a pressure nip, diaphragm housings in said hollow end frames, flexible diaphragms spanning the interiors of said diaphragm housings to provide a pressure chamber and an operating space in each housing, each of said housings having an opening to said operating space, a rod anchored on each diaphragm and projecting longitudinally through said opening of the diaphragm housing, a sleeve threaded on each rod, a collar rotatably mounted



upon said sleeve and held thereon against relative axial movement, pivots connecting the collar in each end frame with the depending arm of the bell crank, means for rotating each sleeve relative to its rod for varying the distance between the diaphragm and the depending arm of the bell crank, control valves on one end frame, conduits connecting said valves with the pressure chambers of the diaphragm housings, pressure gauges on said one end frame associated with said conduits, and indicator means on said rods for showing the linkage length between the diaphragms and depending bell crank arms whereby distortion of the diaphragms can be easily balanced to provide uniform effective areas to the pressure chambers and thereby make possible accurate load readings on the gauges.

2,638,820
CYLINDRICAL CONTAINER AND METHOD OF MAKING SAME
Thomas F. Barnes, Chicago, Ill.
Application July 1, 1947, Serial No. 758,408
2 Claims. (Cl. 93—39.1)



1. In the art of making tubular containers comprising a tubular body having a tubular por-

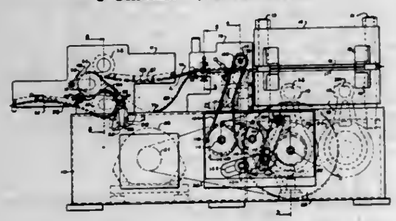
tion thereof in telescopic engagement with a tubular portion of a cover, the method of simultaneously making the tubular portion of the body and the tubular portion of the cover in assembled telescopic engagement which comprises: applying adhesive to the major portion of one surface of an elongated rectangular web of paper-like material, leaving a generally rectangular area free from adhesive, said adhesive-free area extending longitudinally of the web and being spaced from a lateral edge of the web, said adhesive-free area also being spaced from one end of the web a distance at least as great as the periphery of the container to be made, and having a length at least as great as the periphery of the container to be made and a width at least as great as the distance that the body and cover parts are to telescope one within the other; cutting the web to separate it into two sections having complementary edges without substantially moving the separate sections relative to one another, the lines of the cut comprising two offset lines parallel to the lateral edge of the web, which are spaced from each other a distance substantially equal to the width of the adhesive-free area, and which extend from the opposite ends of the web to a locus near one end of the adhesive-free area, and a line connecting the inner ends of the parallel lines; simultaneously winding both web sections into cylindrical form with the adhesive-coated surface outermost and without substantial lateral displacement of the two sections; and applying a paper label around the cylinder to cover the exposed cutting line.

2,638,821

BLANK FORMING PRESS FEED

John R. Baumgartner, Milwaukee, Wis.

Application July 12, 1950, Serial No. 173,409
5 Claims. (Cl. 93—58)



1. The combination with a creasing and blank forming press, of mechanism for feeding a predetermined length of paper web to said press comprising a set of continuously active web feeding metering rolls and a set of intermittently active web feeding rolls, means for driving said intermittently active rolls at a higher speed than said continuously active rolls, means for rendering said intermittently active feed rolls inactive while a loop is built up in the web between said sets of rolls, means for positively driving the rolls of each set at predetermined speeds, an upper apron and a lower apron in which the loop is built up and by which its upper and lower movements are controlled, said continuously active metering rolls having their bite positioned to normally direct the web downwardly and toward the bottom portion of said lower apron, said lower apron extending upwardly to a position adjacent the upper apron at the end of the loop which is adjacent said intermittently active web feeding rolls, the upper apron being downwardly inclined intermediate its ends and engaging the upper surface of the web between said sets of rolls and disposed below a straight line extending between the nips of both sets of rolls and creating a frictional drag on the web between said sets of rolls when the loop is taken up.

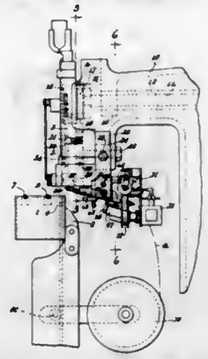
5. The combination with a creasing and blank forming press, of mechanism for feeding a predetermined length of paper web to said press comprising a set of web feeding rolls, means for continuously driving said rolls while engaged with the web, a movable support for one of said rolls, means for moving said support to bring said rolls into feeding relation with the web, rotatable press-timed cam means acting for a predetermined period, and hydraulically operated means controlled by said cam means and including a piston shiftable with said support and a constant stroke pump to compensate for varying thicknesses of the web for moving said support a predetermined distance regardless of varying thicknesses of the web being fed between said rolls to render said rolls inactive to feed the web for the predetermined period determined by said cam means.

2,638,822

TICKET PRINTING AND FEEDING APPARATUS FOR WIRE STITCHER MACHINES

James G. Mackechnie, Jr., Springfield, Mass.

Application April 22, 1950, Serial No. 157,432
7 Claims. (Cl. 93—88)



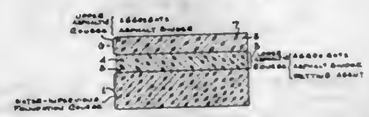
1. A wire stitching machine having a work support, staple driver mechanism and switch operated means to reciprocate said driver against said support, and in combination ticket feeding mechanism for presenting a ticket on the support for attachment to a work piece, said mechanism comprising a rocker frame pivotally attached on said stitcher machine, ticket strip advancing means on said frame, ticket strip guiding and cutting means on the frame, forwardly of the pivot and lying adjacent said work support, a ticket strip supporting shelf carried by said frame and having a platen surface rearwardly of said pivot, said frame being weighted rearwardly to normally urge said guiding and cutting means upwardly of said work support, upper and lower stops to limit the pivoting of the frame, means actuated by said driver mechanism and engageable with said cutting means to pivot said frame, printing elements positioned in spaced overlying position relative to said platen surface to receive a ticket strip in said pivoted position of the frame, an inking ribbon extending across said elements with feeding means for advancing the ribbon to renew the same, and switch operated electrical means for actuating said ticket strip advancing means and said ribbon feed independently of said driver means.

2,638,823

ASPHALT PAVEMENT

Joseph Carl Roediger, Brooklyn, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 3, 1949, Serial No. 69,032
3 Claims. (Cl. 94—9)



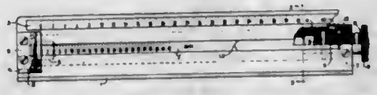
1. An asphalt structure consisting of a substantially water-impervious pavement foundation, a lower asphalt course consisting of a relatively hard asphalt having a 100 g./5 sec./77° F. penetration of 40–60, mineral aggregate and an asphalt wetting agent, and an upper asphalt course consisting of mineral aggregate and an asphalt having a 100 g./5 sec./77° F. penetration of 70–100.

2,638,824

HAND STICK FOR USE IN PRODUCING TYPE MATTER PHOTOGRAPHICALLY

Herman R. Freund, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application July 6, 1949, Serial No. 103,241
4 Claims. (Cl. 95—4.5)



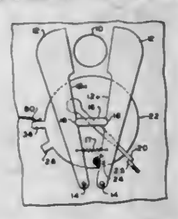
1. A hand-stick for typographical composition comprising an elongated member of generally L-shaped cross-section for supporting in face-to-face abutting relation a composed line of typographical elements bearing photographically reproducible type characters of a given basic point-size and having thicknesses proportional to the setwise widths of the characters respectively borne thereby, a transversely extending stop at one end of said supporting member for engaging the element at one end of said line of elements, an elongated window in one side of said supporting member, a drum rotatably mounted on said supporting member and bearing a plurality of differently calibrated scales each graduated in inverse proportion to the ratio between the point size of the reproduction and said basic point size, said scales being positioned on said drum for selective visual registration with said window so that said stop is in alignment with a predetermined reference point on the scale, whereby when a line of elements is assembled on said supporting member with the element at one end of the line in abutment with said stop, the position of the element at the opposite end of the line relative to the scale thus in registration will indicate the length of a line of characters reproducible therefrom at a size ratio corresponding to that of the scale.

2,638,825

CAMERA SHUTTER MECHANISM

Murry N. Fairbank, Belmont, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application November 24, 1950, Serial No. 197,246
10 Claims. (Cl. 95—59)



1. In a shutter for a photographic device, means providing an exposure aperture, means including at least one blade for covering said aperture, means for mounting said blade for movement into and out of aperture-covering position, a timing flywheel, means for mounting said flywheel for rotation, said last-named means being spaced from the said mounting means for said blade so that said flywheel and said blade have essentially different paths of movement, means normally holding said flywheel in stationary position, means for applying a sharp impulse to said flywheel to free the same of said holding means and to impart rotary motion thereto, reversing means for reversing the direction of rotation of said flywheel, said reversing means including a rebound member and mechanism for positioning said rebound member in the path of movement of said flywheel to cause said member to engage said flywheel, the engaging parts of said rebound member and said flywheel being so constituted as to effect the reversal of motion of said flywheel without any substantial diminution in the energy content of said flywheel, said rebound member and said impulse-applying means engaging said flywheel for only a small portion of the total travel thereof, said holding means reengaging and holding said flywheel upon the return thereof to its normally stationary position, and means for connecting said flywheel to said blade so that said flywheel, during rotation from its initial stationary position, moves said blade out of its aperture-covering position, said connecting means being so constituted that said blade returns to its aperture-covering position when said flywheel returns to its initial stationary position, said connecting means comprising a cam member mounted on said timing flywheel for at least partial rotation therewith and means biasing said shutter blade into operative engagement with said cam member.

2,638,826

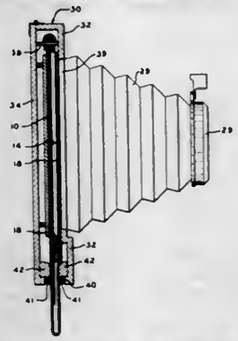
FILM HOLDER FOR SELF-DEVELOPING CAMERAS

Murry N. Fairbank, Belmont, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application March 23, 1950, Serial No. 151,479
17 Claims. (Cl. 95—72)

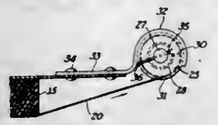
9. A composite photographic film unit comprising an envelope having a front wall and a back wall, said front and back walls being joined together along three edges thereof, a sheet of photosensitive material in said envelope and slidably movable with respect thereto, said walls being opaque to light which is actinic to said photo-

sensitive material, said photosensitive material having a predetermined area thereon adapted to have a latent image formed therein, a second sheet of material in said envelope in face-to-face relation with said image area and carried by the inner surface of one of said walls, and a liquid-



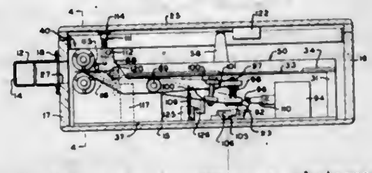
carrying container mounted on said second sheet of material between the interface surfaces of said photosensitive material and said second sheet of material, said liquid-carrying container being located outside of but adjacent to said image area.

2,638,827
PRINTER PLATEN CONSTRUCTION
Roger Phelps Leavitt and William Mansfield White, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 28, 1949, Serial No. 107,234
1 Claim. (Cl. 95—73)



In a photographic printing apparatus having a top formed with a printing aperture, the combination with a flexible platen which is hinged at one end to said top and which assumes a curved relation when in its inoperative position and is movable substantially into a plane when in its operative position to hold a sensitive sheet over said aperture, said platen having a layer of compressible material secured to the under surface thereof, the exposed face of said material decreasing in size as the platen is moved from its inoperative to its operative position, of a fabric covering arranged in overlying relation and in positive contact with the full area of said face in both positions of said platen, means for anchoring one end of said covering adjacent said one end of said platen, and spring means carried by the other end of said platen and connected to the other end of said covering to maintain the covering in a taut relation over and in positive contact with said face in both positions of said platen, the movement of said platen to its operative position causing said layer to move relatively over said covering as said face decreased in size, and said spring means taking up any slack in said covering as said platen is moved to its operative position to provide a smooth member which engages said sheet without slipping relative thereto.

2,638,828
PHOTOGRAPHIC PROCESSING APPARATUS
Albert J. Bachelder, Lexington, and Otto E. Wolff, Concord, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application June 16, 1951, Serial No. 231,996
25 Claims. (Cl. 95—89)

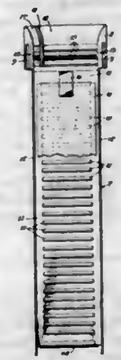


1. Apparatus for processing a photographic film assembly having a pair of superposable liquid-confining layers provided with a photosensitive portion on the inner surface of one layer and adapted to be processed by a processing liquid spread between the layers and wherein leader means are attached to said layers to extend from said layers, said apparatus comprising housing means having a main compartment and in communication therewith an auxiliary compartment, said housing means including a movably mounted member providing closure means for gaining access to said main compartment whereby to permit the placement of a film assembly therein and also providing means for rendering said housing means substantially lighttight when in closed position, means within said main compartment comprising a pair of pressure-applying members engageable in pressure contact with opposite sides of said film assembly and actuatable for effecting the advancement of said film assembly therebetween while effecting the spreading of said liquid composition between the layers of said film assembly, means normally urging said pressure-applying members in separated relation to each other whereby to facilitate the positioning of the leader means of said film assembly between said pressure-applying members, means for engaging said pressure-applying members with said film assembly, including the leader means thereof, and means for effecting the actuation of said pressure-applying members, said auxiliary compartment being aligned with said pressure-applying members on the discharge side thereof in a position to receive said film assembly as it is advanced upon the actuation of said pressure-applying members to effect said advance.

2,638,829
DEVELOPING APPARATUS
Alexander J. Singer, Seat Pleasant, Md.
Application May 5, 1950, Serial No. 160,239
2 Claims. (Cl. 95—100)

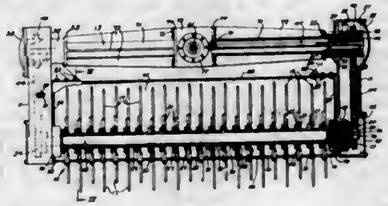
1. A film holder for a developing tank comprising an elongated member of I-shaped cross section and a cover provided with a rectangular opening integrally formed with one end of said elongated member, said cover having an outwardly directed shoulder where it is connected with said elongated member, said shoulder being provided with a continuous groove for receiving the upper edge of a developing tank into which said film holder is adapted to be inserted, the I-shaped cross section of said elongated member having flanges between which a web section is positioned on which a film strip to be developed is adapted to be secured, one end of said flanges being connected with said cover inside the area

circumscribed by said continuous groove, light arresting ribs extending along the entire width of said opening and a transverse partition being



provided in the opening of said cover, near one of the narrow walls of the same to form a light-proof vent.

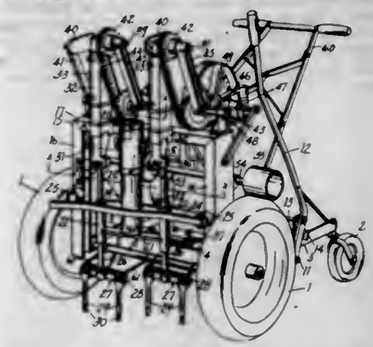
2,638,830
SOIL CONDITIONER
Roy A. Kropp, River Forest, Ill., assignor to Kropp Forge Company, Cicero, Ill., a corporation of Illinois
Division of application Serial No. 530,797, April 13, 1944, now Patent No. 2,438,707. Continuation of application Serial No. 557,153, October 4, 1944, now abandoned. This application December 18, 1947, Serial No. 792,381
5 Claims. (Cl. 97—40)



5. In a power driven rotary soil conditioner having a soil disintegrating rotor assembly, a single rotor shaft and a differential drive having means operably connecting said drive to the respective opposite end portions of said rotor shaft for delivering substantially half the driving power from the differential drive to each of said rotor shaft end portions.

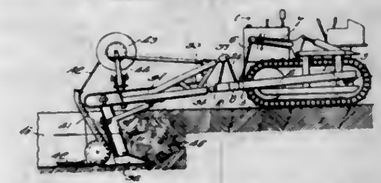
2,638,831
GROUNDWORKING MACHINE
Carl Edwin Ferguson, Kendall Ferguson, and Robert C. Ferguson, Eau Claire, Mich., assignors to Berrien Tool and Die Company, Eau Claire, Mich., a corporation of Michigan
Application December 30, 1950, Serial No. 203,725
16 Claims. (Cl. 97—44)

16. In a ground working machine, the combination of a mobile carriage, a tool carrying frame supported on said carriage and oscillatable about an upright axis, vertically disposed guides on said frame disposed on either side of said axis, tool rods vertically reciprocally mounted on said guides, ground working tools carried on the bottoms of said tool rods, means limiting oscillation of said tool carrying frame to a short arc in a transversely extending position relative



to said carriage, a motor on said carriage, and means drivingly connecting said motor to said tool rods to reciprocate said tool rods in alternate advancing timed relation.

2,638,832
STRUCTURE FOR MOUNTING EXCAVATING AND PIPE AND CABLE LAYING MEANS ON TRACTORS
Andrew S. Kinsinger, Gordonville, Pa.
Application January 13, 1951, Serial No. 205,939
9 Claims. (Cl. 97—47.16)

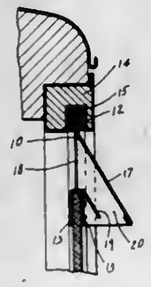


1. An adapter for interconnecting the frame of an incision-type tool with a manipulator frame of a tractor comprising in combination with the manipulator frame of a tractor in which the manipulator frame includes a flat central portion and symmetrically disposed diverging side portions, an abutment plate having a rod member projecting rearwardly therefrom and extendable through the flat central apex portion of the manipulator frame, resilient arms projecting rearwardly from opposite ends of said abutment plate and embracing the diverging side portions of the manipulator frame and secured thereto and connecting means formed on certain of said resilient arms and on said abutment plate and providing connections to the frame of an incision-type tool.

2,638,833
VENTILATOR ATTACHMENT FOR AUTOMOBILES
Harry N. Snyder, Indianapolis, Ind.
Application February 18, 1950, Serial No. 144,901
1 Claim. (Cl. 98—2)

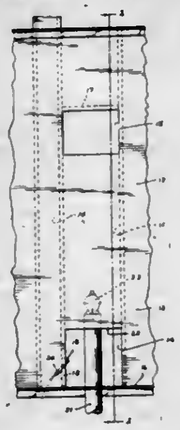
In combination with an automobile window and a frame therefor having window receiving recesses formed therein, a ventilator comprising a frame having an opening therethrough extending substantially from edge to edge thereof, said

frame including top and side portions adapted to be inserted in friction fitting relation within said recesses, said frame also including a bottom portion comprising an inverted channel having spaced apart side walls adapted to receive and embrace the top portion of said window, a louver connected to and extending outwardly and downwardly from adjacent the top portion of said frame and said opening to a point below the plane of the lower edge of said opening, said



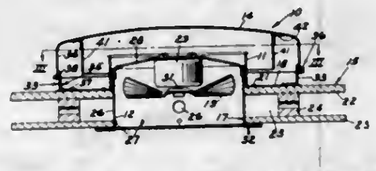
louver being substantially coextensive with said frame, and a second louver substantially coextensive with said frame and extending outwardly and downwardly from adjacent the top edge of said channel and the lower edge of said opening to a point above the point of termination of said first mentioned louver, the two louvers being substantially parallel thereby to provide unobstructed and continuous downward flow of air from within said window.

2,638,834
PROPORTIONAL, CONVECTION WARMING AND CIRCULATING SYSTEM
Ben Cones, Indianapolis, Ind.
Application February 8, 1950, Serial No. 143,018
2 Claims. (Cl. 98—33)



2. In a system for introducing fresh air into and proportionally changing the air content of a room, the combination of a recirculating air flue and a vent flue extending side by side vertically of the room; means for inducing an up air flow in said vent duct; said recirculating flue having a fixed sized, intake opening therein from the room at the room floor level and a fixed sized discharge opening therefrom near the ceiling of the room, the recirculating flue being otherwise closed off at said room floor and ceiling; said vent flue having a sole intake opening therein from said recirculating flue at said floor level; a fresh air duct conveying air under pressure and carried upwardly from the floor level to open into said recirculating flue above its said floor level opening and above said vent flue floor level opening; and damper means in said vent flue opening confining that opening to be at all times less than said recirculating flue floor level opening, whereby the room air induced to flow from the room by said recirculating flue under ejector action induced by said fresh air duct discharge is divided through a differential in pressure as between said two floor level openings to have a proportion of that room air divided and separated for vent flue discharge prior to mixing of the room air in any part thereof with air from said fresh air flue.

2,638,835
ROOF VENTILATOR
Fern A. Strawsine, Corunna, Mich.
Application May 17, 1951, Serial No. 226,859
1 Claim. (Cl. 98—43)

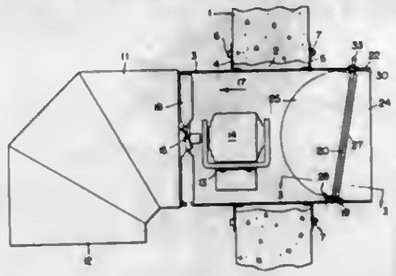


In a ventilator mountable upon a substantially horizontal roof having an air space between the upper and lower surfaces thereof and a circular opening therethrough, the combination comprising: an outer cylinder substantially equal in diameter to said opening and having a mounting flange at the lower edge thereof securable to said upper surface around said opening; an inner cylinder slidably and snugly receivable within both said outer cylinder and said opening, said inner cylinder being mountable upon the wall of said opening and having a vent opening through the wall of said inner cylinder communicating with said air space; an axial flow fan and means for rotatably supporting same co-axially within said inner cylinder and on the upper edge thereof; a streamlined dome having a downwardly extending, peripheral flange surrounding said outer cylinder, the lower edge thereof defining a plane parallel with and spaced from said upper surface and intersecting said outer cylinder; brackets on said mounting flange spaced from said outer cylinder engaging said peripheral flange and supporting said dome; and a cylindrical baffle supported on and extending downwardly from said dome between said outer cylinder and said peripheral flange, said baffle being co-axial with said outer cylinder and extending below its upper edge.

2,638,836
DAMPER FOR POULTRY HOUSE VENTILATORS
Richard L. Hull, Davenport, Iowa, assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware
Application September 25, 1950, Serial No. 186,807
4 Claims. (Cl. 98—119)

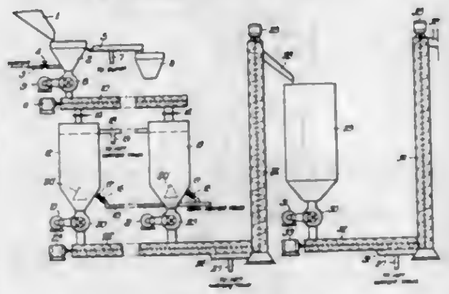
1. In combination, a horizontal circular ventilating duct, a plate having two bearings equally distant from the vertical central plane of the duct mounted on the lower segment of the duct, two circular openings in the upper segment of said duct similarly spaced as to the central plane but closer to the inlet of the duct than said lower

bearings, removable sleeves mounted in said openings, two rods each extending across the duct from one lower bearing and through one of said sleeves, and an approximately semi-circular damper rigidly secured adjacent its straight edge to each rod, and stops on the duct against which



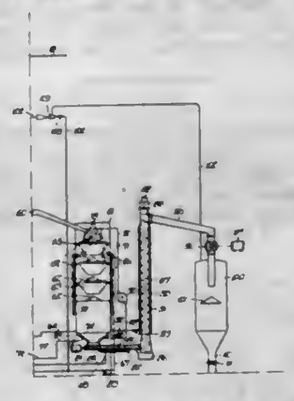
the weight of the damper section is brought to rest by gravity acting on the damper when no air is flowing through the duct thus closing off the duct, a slot wider than the diameter of said rod and narrower than said sleeve extending from each circular opening to the end of said duct.

2,638,837
APPARATUS FOR TREATING GRANULAR MATERIAL IN A CONTINUOUS PROCESS
Paul Talmey and Richard W. Landon, Chicago, Ill., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York
Application April 26, 1948, Serial No. 23,226
5 Claims. (Cl. 99—237)



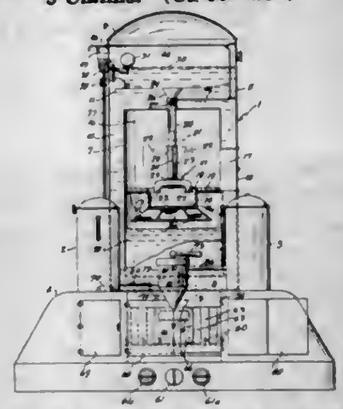
1. A pressure cooker for heating granular material in a continuous process comprising: a pressure-tight generally cylindrical tank; means at the top of said tank for moving the material into the tank against the pressure therein; baffle means fixed in said tank against which the material moves and by which the material is separated into substantially individual granule masses; steam jet means in said tank disposed in juxtaposition to said baffle means and through which steam plays on the material substantially tangentially of said tank to impart a whirling motion to the material and to distribute it substantially uniformly across the tank; a star valve at the bottom of the tank for extracting the processed material therefrom; a variable speed driving means for said valve; a contact rod projecting into said tank and terminating in the plane of the desired level of material in the tank; and means actuated by the material in said tank engaging said rod for controlling said variable speed driving means to vary the speed of operation of said star valve and thereby adjust the level of the material in the tank.

2,638,838
APPARATUS FOR TREATING GRANULAR MATERIAL IN A CONTINUOUS PROCESS
Paul Talmey and Otto R. Kuster, Chicago, Ill., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York
Application May 16, 1947, Serial No. 748,598
5 Claims. (Cl. 99—237)



1. A pressure cooker for parboiling granular material in a continuous process comprising, a cylindrical sealed tank disposed with its axis vertical, an inlet duct leading into the top of the tank and terminating coaxially thereof and through which the material enters the tank, baffle means within the tank engaged by the material stream which is broken up thereby so that the material gravitates slowly to the bottom of the tank, steam jets for playing live steam on the material as it travels downwardly in the tank, nozzles located above said baffles, a pump for drawing condensate from the bottom of the tank and forcing it through said nozzles onto said material and baffles, a pipe leading out of the bottom of the pipe and containing a valve by which the level of the condensate in the tank is controlled, and a conveyor for carrying the parboiled material out of the bottom of the tank and for elevating it above the level of the condensate therein.

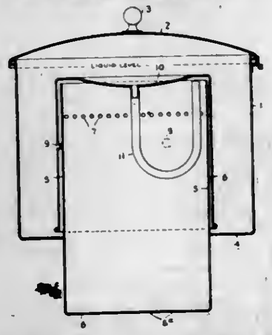
2,638,839
BEVERAGE URN
Stephen J. Raiteri, Stamford, Conn.
Application March 27, 1948, Serial No. 17,475
5 Claims. (Cl. 99—283)



1. A device of the character described comprising a container for hot water, means for heat-

ing the water in said container, a coffee container in the first container and spaced from the walls thereof to provide a water space, a coffee maker mounted in the coffee container comprising a holder for ground coffee including an imperforate base and inclined side walls comprising screening means inclined upwardly and inwardly from the periphery of said base and an entrance opening above said holder, sprinkler means for feeding water through said opening to the ground coffee, and means for feeding water from the first container to the sprinkler.

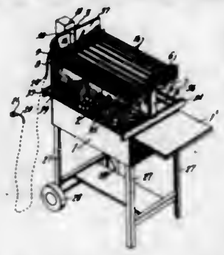
2,638,840
APPARATUS FOR MAKING COFFEE AND LIKE INFUSIONS
Erik Duyvené de Wit, Amsterdam, Netherlands
Application April 19, 1951, Serial No. 221,758
In the Netherlands April 25, 1950
5 Claims. (Cl. 99—305)



1. An apparatus for making coffee and like infusions comprising an outer casing open at the top and provided with a cover; a box possessing a screening bottom and also open at the top, this box being fixed in the bottom of the outer casing, with one portion of said box above the bottom of such outer casing and another portion of said box below the bottom of said outer casing; a second inverted-box-shaped element fitting around said first box with a small clearance between said box and said element, such element terminating above the bottom of said outer casing and such element having a top with a downwardly arched central depression provided with an opening in the lowest part of said depression, in which opening an upright U-shaped tube is fixed in a liquid-tight manner, such U-shaped tube being within said inverted-box-like element.

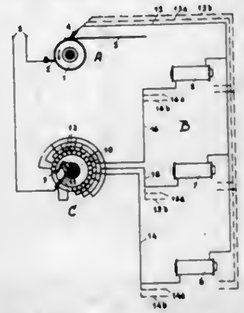
2,638,841
GRILL
Clifford A. Boyce, Burlington, Vt.
Application August 19, 1952, Serial No. 305,121
17 Claims. (Cl. 99—397)

1. A grill comprising means for supporting a bed of fuel; spaced supports extending above said fuel supporting means at opposite ends thereof and having aligned bearings therein; a first pair of grill carriers rotatably mounted in said bearings, one adjacent each support; a second pair of grill carriers, one closely adjacent each of said first carriers; bearings coaxial with the bearings of said first carriers in which said second carriers are mounted to rotate independently of said first carriers; means for clamping said first and second carriers to rotate together; a first pair of bars extending over said fuel supporting means and connecting said first pair of carriers together; a second pair of bars extending over said fuel supporting means and connecting said



second pair of carriers together; a pair of grills secured together in closely spaced relation between said pairs of bars, whereby, food to be grilled may be held between said grills; and means for rotating said grills.

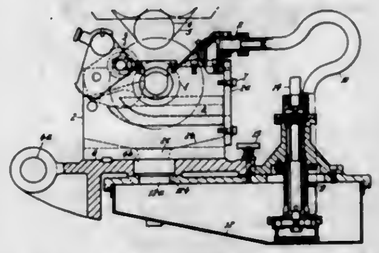
2,638,842
PROCESS AND APPARATUS FOR ANALYZING CARDS
Cornelis Hendricus Stuivenberg, Haarlem, Netherlands
Application August 6, 1947, Serial No. 766,772
In Germany December 31, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires December 31, 1962
12 Claims. (Cl. 101—93)



2. In an apparatus for analyzing the symbols of a symbol carrier such as a record card having a plurality of fields of symbol places in one and the same column, the combination of sensing means operable successively to sense the symbol places of the fields of one and the same column so that during one and the same passage of said carrier in longitudinal direction of said column the first symbol place of each field is sensed before the next symbol place is sensed, analyzing means including printing means for analyzing and printing the sensed symbols, said printing means including at least one reciprocable type bar carrying a plurality of types corresponding to symbols of different fields of the same column, distributing means interposed between said sensing means and said analyzing means and operatively associated therewith for individually distributing and conveying signals or impulses corresponding to the sensed symbols on said symbol places to said analyzing means, a plurality of

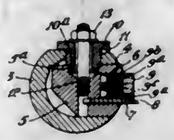
control means, each type bar being provided with as many control means as there are symbol fields in a column of symbols, and lost motion means interposed between said controlling means and each type bar for causing a predetermined time lag in the operation of the printing types corresponding to the sensed symbols of the different fields of the same column.

2,638,843
ROTARY PHOTOGRAVURE PRINTING MACHINE
Angus Murray Halley, Moseley, Birmingham, England
Application June 29, 1950, Serial No. 171,153
In Great Britain May 8, 1950
5 Claims. (Cl. 101—157)



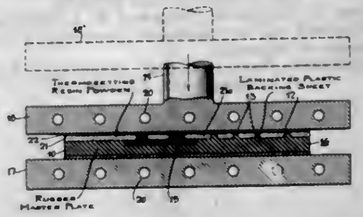
1. In a rotary photogravure printing machine, in combination, a rockable casing for the image cylinder having a drain in its base and a port for the ingress of ink, an ink tank, an ink pump in said ink tank, a flexible connection from said pump to the port in the casing, a flexible drive to the pump and means for detachably securing the ink pump and the ink tank to the under side of the casing with a hole in the tank in register with the drain in the casing.

2,638,844
ROTARY PHOTOGRAVURE PRINTING APPARATUS
Angus Murray Halley, Moseley, Birmingham, England
Application June 29, 1950, Serial No. 171,154
In Great Britain May 8, 1950
5 Claims. (Cl. 101—169)



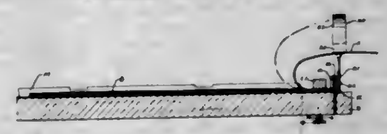
1. In a rotary photogravure printing apparatus a means of mounting and adjusting a doctor blade within a housing comprising, in combination, a longitudinally recessed generally cylindrical housing, a carrier laterally slidable in the recess in the housing and having a rectangular recess along its exposed side, a doctor blade in the recess in the carrier, a plurality of expandable clamps in the recess in the carrier for retaining the doctor blade therein, said housing having a plurality of bores each of which intersects one side of the recess in the housing and is substantially perpendicular to such side and eccentric rotatable means in the bores of the housing and engaging the carrier for imparting a lateral movement to the carrier in the housing.

2,638,845
METHOD FOR MAKING MATRICES FOR MOLDING RUBBER PRINTING BLOCKS
Rae C. Perkins, Oswego, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application March 19, 1948, Serial No. 15,896
2 Claims. (Cl. 101—401.1)



1. Method for producing a one-piece resinous matrix adapted for repeated use for molding rubber printing dies, which method comprises engraving the design which is desired to be printed, by cutting same in the surface of a pliable vulcanized rubber block, superimposing upon said design a layer of finely divided thermosetting resinous material to a depth sufficient substantially to cover the engraving forming said design after first applying upon the block a coating to separate the resin from the rubber, covering such block and the resinous material thereon with a fibrous backing layer, thereafter subjecting the resulting assembly to an elevated temperature while gradually applying heavy pressure thereto, the heat and pressure applied being sufficient to consolidate the finely divided material integrally with the backing layer into a solid thermoset matrix embodying the complement of said design, but insufficient to cause any substantial deformation or marring of the design as engraved in the pliable rubber block, and removing the resulting matrix from the rubber block.

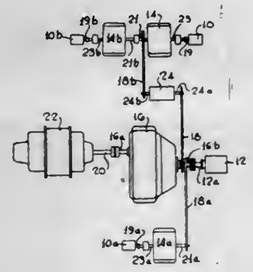
2,638,846
BOOK AND LEAF HOLDING DEVICE FOR PRINTING MACHINES
Charles G. Krakenberg, New York, N. Y., assignor to Checkmaster Systems, Inc., New York, N. Y., a corporation of New York
Application August 5, 1950, Serial No. 177,797
8 Claims. (Cl. 101—407)



1. In a machine for imprinting individual leaves of a book in which the leaves are secured along a narrow side thereof, a table for supporting said book thereon, a main abutment bar on said table, an end abutment plate on said table and having a pair of short end legs presenting a recess, the inside edge of one of said legs being aligned with the inside edge of said main abutment bar whereby said book may be held in imprinting position with its bound end in said recess, and means adjacent to said end abutment plate for holding leaves which have been turned about said narrow side of the book away from the imprinting position of the unturned leaves, said means comprising a pair of opposed mem-

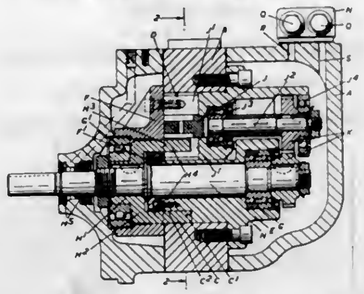
bers having ends extending inwardly over the table toward each other, and means mounting said members on said table for movement toward and away from each other.

2,638,847
RATIO DRIVE FOR METERING OR PROPORTIONING PUMPS
Gaylon H. McGowan, Fanwood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 2, 1947, Serial No. 719,703
1 Claim. (Cl. 103—6)



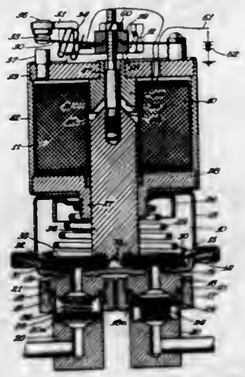
A proportioning pump system comprising a common driving means for the system; a primary variable speed transmission means having an input shaft connected to and driven by said driving means, and an output driving shaft, said output shaft constituting the main drive shaft for said system; a primary pump element having an input driven shaft, said shaft being directly connected to said main drive shaft; a series of secondary pump elements in said system; each having an input driven shaft; a series of secondary variable speed transmission means in said system, each having an input driven shaft and an output driving shaft, each one of the latter mentioned output shafts being directly connected to an input shaft of one of said series of secondary pump elements, said series of secondary transmission means including at least two transmission means which are directly interconnected by means of their input shafts, and at least one other transmission means in said series; a supplemental variable transmission means in said system having an input, driven shaft, and an output, driving shaft; drive means directly connected between said supplemental transmission means output shaft and said interconnected secondary transmission means input shafts; drive means directly connected between said supplemental transmission means input shaft and said main drive shaft; and drive means directly connected between said main drive shaft and the input shaft of at least one other member of said series of secondary transmission means; whereby the pumping rate of any secondary pump element may be individually varied with respect to that of said primary pump element as well as to that of any other secondary pump element; the combined pumping rate of said secondary pump elements driven by said interconnected secondary transmission means through said supplemental transmission means may be jointly varied with respect to that of said other pump elements while maintaining their proportional output relation to each other, and the combined pumping rate of all pump elements may be uniformly varied while maintaining their proportional output one to another.

2,638,848
HYDRAULIC PUMP AND MOTOR
Edward Harry Johnson, Coventry, England, assignor to The Keelavite Company Limited, Coventry, England, a company of Great Britain
Application February 15, 1951, Serial No. 211,118
In Great Britain February 16, 1950
13 Claims. (Cl. 103—42)



1. A rotary hydraulic machine comprising relatively moving parts enclosing a working chamber with working clearances between the relatively moving parts and inlet and outlet passages communicating with the working chamber, a substantially fluid-tight casing enclosing the said relatively moving parts and with which communicate the ends of the working clearances remote from the working chamber, said casing being arranged to be filled with working fluid, and valve apparatus including in combination a pressure operated non-return valve arranged to permit fluid flow from one of the said inlet and outlet passages to the interior of the casing and a second pressure operated non-return valve arranged to permit flow of fluid from the casing to the other of the said inlet and outlet passages.

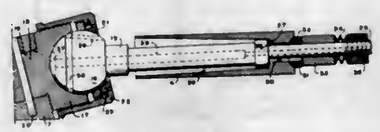
2,638,849
PUMP
Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., a corporation of Illinois
Application January 29, 1947, Serial No. 725,096
3 Claims. (Cl. 103—53)



1. A pump for supplying fuel to a liquid fuel consuming device including in combination a symmetrically-shaped housing having an annular portion projecting from one end thereof

and electric solenoid means contained therein, an axially reciprocating plunger comprising a part of the magnetic path of said solenoid means and slidably supported in said annular portion, a second symmetrically-shaped housing having an axially centered aperture in one end and a pair of apertures comprising inlet and outlet openings in the opposite end thereof, said axially centered aperture being disposed in axial alignment about said annular portion and accommodating said plunger, adjustable securing means coacting with said second housing and said annular portion retaining said housings in assembled relation, said second housing having an airtight chamber formed therein accessible through said inlet and outlet apertures, a flexible diaphragm supported in said second housing, one side of said diaphragm comprising one of the walls of said airtight chamber, sealing means affixed to the side of said diaphragm facing said inlet and outlet openings, means securing said diaphragm to said plunger, a coil spring supported between said diaphragm and said axially apertured end of said second housing tending to force said diaphragm toward said opposite end of said second housing and thereby discharging fuel from said chamber through said outlet opening and causing said sealing means to close said inlet and outlet openings, an electric contact fixed to said first housing, a movable contact, and a snap action mounting for said movable contact, said mounting including a pair of resilient members and a roller spring interposed therebetween, one of said resilient members being secured to said plunger for movement therewith and the other of said movable members supporting said movable contact, said resilient members being so arranged that said movable contact is moved into engagement with said fixed contact when said diaphragm reaches a position adjacent said opposite end of said second housing, to thereby energize said solenoid means so that said plunger moves said diaphragm away from said opposite end of said second housing for drawing fuel through said inlet opening into said chamber.

2,638,850
PISTON ASSEMBLY FOR AXIAL TYPE HYDRODYNAMIC MACHINES
Walter Ferris, Milwaukee, Wis.
Application January 24, 1952, Serial No. 267,979
23 Claims. (Cl. 103—162)



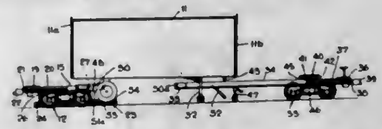
1. In an axial type hydrodynamic machine having a cylinder barrel provided with a cylinder adapted to have a piston fitted therein and a thrust member for reciprocating said piston, the combination of a piston fitted in said cylinder and having a bore extending inward from the outer end thereof, a substantially flat bearing surface on said piston at the inner end of said bore, a piston rod extending into said bore and having a bearing surface arranged upon its inner end and in contact with the bearing surface on said piston, and a universal joint larger in diameter than said piston arranged upon the outer end of said rod for connecting it to said thrust member.

2,638,851
WELL DRILLER CLEANOUT PUMP ASSEMBLY
Arnold S. Soberg, Elmhurst, and Ahlmann Christensen, Wilmette, Ill., assignors to Sochris Development Company, Chicago, Ill., a corporation of Illinois
Application November 30, 1951, Serial No. 259,124
15 Claims. (Cl. 103—219)



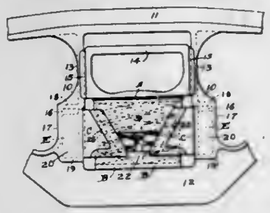
1. In a well drillers cleanout pump assembly comprising a cylinder, piston and shaft, a means for securing and sealing the same within a well casing at a point remote from the ground level comprising a pivoted wedge and a tiltable sealing cup operably joined together and secured to the cylinder, a trigger actuated by the pump piston shaft when lifted upwardly above its normal upper stroke to tilt the sealing cup and pivot the wedge out of operative positions and means for returning the wedge to securing position and the cup to sealing position when the piston is in normal pumping positions.

2,638,852
RAIL TRAILER CARRIER
John A. Bannen, Bronx, N. Y.
Application January 24, 1950, Serial No. 140,187
9 Claims. (Cl. 105—159)



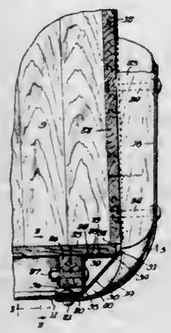
1. A rail trailer carrier comprising front and rear railway car trucks having wheeled axles, a chassis member mounted on each truck and extending beyond the wheels of each said truck, a platform at the back end of the front truck at a height intermediate the axles and the bottoms of the wheels thereof, said platform being supported from the chassis member on the front truck and serving to support thereon the wheels of a trailer, means for detachably connecting said chassis members together, means for connecting the back end of said platform to the chassis member of the rear truck, and means mounted on the rear truck for lockingly engaging that end portion of said trailer opposite the trailer wheels, said rear truck serving to carry the weight of said end portion of the trailer.

2,638,853
SNUBBING MEANS FOR RAILWAY CAR TRUCK SPRINGS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 27, 1950, Serial No. 146,538
2 Claims. (Cl. 105—197)



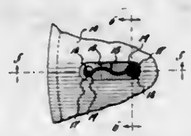
1. In a railway car truck, the combination with side frames provided with bolster guides, a truck bolster, and a spring cluster supporting said bolster on each side frame; of pockets in each side frame at opposite sides of the corresponding spring cluster, each pocket having a vertical inner wall; a rubber pad in each pocket buttressed against the inner wall thereof; laterally separable side members supported by each of said side frames at opposite sides of said spring cluster of said side frame, each side member including a platelike section bearing on the corresponding rubber pad, and flanges at opposite ends of said plate section extending inwardly therefrom and embracing said spring cluster therebetween; a top spring follower plate supported on said spring cluster and bearing on the underneath side of the bolster; and depending flanges on said top spring plate in wedging engagement with said first named flanges, said first and second named flanges having interengaging guide portions of tongue and groove formation.

2,638,854
WELDED CORNER POST ASSEMBLY
James E. Candlin, Jr., Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 26, 1948, Serial No. 46,286
4 Claims. (Cl. 105—410)



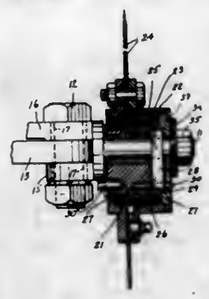
1. A railway car corner construction comprising side and end wall elements defining a corner, a wall connecting plate of substantially the wall height having a plane surface throughout its height extending in said corner diagonally between the side and end walls to form therewith a hollow upright column on one side of said plate, and an upright angle member secured by its flanges to the opposite side of the plate to form therewith a second hollow upright column substantially coextensive with and complementing said first-mentioned column.

2,638,855
DIE FOR MACARONI PRODUCT EXTRUSION
Donato Maldari, Brooklyn, N. Y., assignor to The De Martini Macaroni Co., Inc., Brooklyn, N. Y., a corporation of New York
Application December 19, 1950, Serial No. 201,654
6 Claims. (Cl. 107—14)



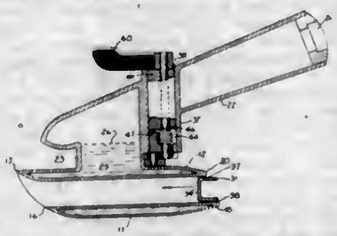
1. A die for macaroni product extrusion, comprising a die body having a single transverse and continuous reversely curved slot-like extrusion aperture perpendicular to the horizontal plane of said body, said body being further provided with upwardly open countersunk pockets, and the end portions of said extrusion aperture extending in opposite direction and terminating at the adjacent inner portions of the side walls of said respective pockets so as to intersect the side surfaces thereof at an acute angle thereto, whereby to provide lateral dough entranceways leading from the pocket interiors respectively into opposite ends of said extrusion aperture.

2,638,856
MOUNTING FOR PASTRY STRIP CUTTER WHEELS
Frank H. Hubbard, Indianapolis, Ind., assignor to Thomas L. Green & Company, Inc., Indianapolis, Ind., a corporation
Application September 2, 1950, Serial No. 183,074
7 Claims. (Cl. 107—22)



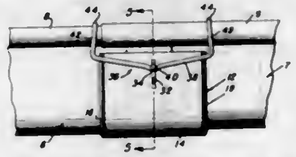
2. A support for pastry cutting discs comprising an axle, a bearing on said axle comprising an eccentric disc, a cutting disc concentrically rotatable on said bearing, and means for biasing said eccentric disc for rotation in a direction to yieldingly urge the cutting disc into engagement with the material to be operated upon.

2,638,857
ICE-CREAM SCOOP
Le Roy J. McCoy, Jr., Richmond, Calif.
Application July 10, 1947, Serial No. 760,030
4 Claims. (Cl. 107—48)



1. A dispenser of the character disclosed, comprising in combination two spaced double-walled sector-shaped members, an arcuate double wall joining said spaced members forming a receptacle for a serving, said double-walled sectors and said arcuate wall forming a communicating hollow chamber, a hollow handle mounted on the upper sector-shaped member with the hollow interiors of each communicating, a low freezing point medium confined within said hollow chambers, ejector means between said spaced sector-shaped members to close one side during filling of the receptacle and means to move the ejector means between the spaced sector-shaped members to clear the receptacle.

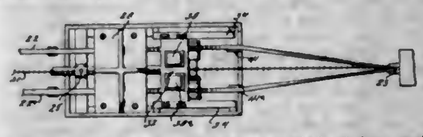
2,638,858
GUTTER JOINT SEALING MEANS
Richard E. Bowles, Silver Hill, Md.
Application June 25, 1951, Serial No. 233,451
4 Claims. (Cl. 108—28)



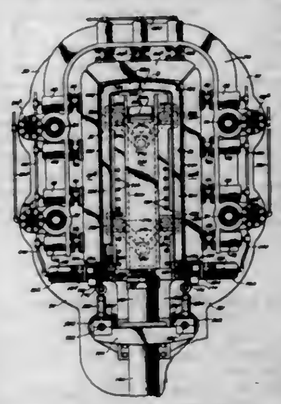
1. An attachment for an eaves trough lap-joint comprising an arcuate joint bridging band having laterally bent longitudinal edges forming flanges and transforming the band into a shallow pan, mastic sealant compound in said pan, and a readily removable protective covering for said compound, said pan being provided at opposite ends with means whereby the same may be removably clamped on coacting gutter sections.

2,638,859
MACHINE FOR MAKING COAXIAL CABLE
Paul Charles Emard, Lyons, France, assignor to Compagnie Generale d'Electricite, Paris, France, a French joint-stock company
Application October 30, 1948, Serial No. 57,451
In France January 24, 1945
2 Claims. (Cl. 113—33)

1. In a machine for making coaxial cable, a support having an input end and an output end, a reciprocating contactor displaceably mounted on said support, a vertically reciprocable press displaceably mounted on said support, a longitudinally reciprocable carriage slidably mounted on said support, a drive shaft rotatably mounted on said support, carriage displacing means connected to said carriage and longitudinally displacing the same, a first cam secured on said drive shaft and actuating said contactor, a second cam secured on said drive shaft and actuating said press, a third cam secured on said drive shaft and displacing said carriage displacing means, said shaft and said cams being arranged to hold said press open during the interval when said carriage is being longitudinally traversed, said carriage carrying a closable lateral jaw at each side thereof to receive metal strips, said carriage further carrying a closable central jaw in the center thereof receiving a central wire, electrical control means arranged and connected to set said jaws into gripping position and connected for actuation upon the closing of said contactor, and means mounted at the output end of said support to rotate a metal strip received from said lateral jaws through a right angle and further to then guide metal strips obliquely to apply the same to a central wire.



2,638,860
METHOD AND APPARATUS FOR FORMING CABINET SHELLS
Warren H. Nobles, St. Paul, and Arthur R. Wylie, Minneapolis, Minn.
Application January 15, 1947, Serial No. 722,164
11 Claims. (Cl. 113—45)

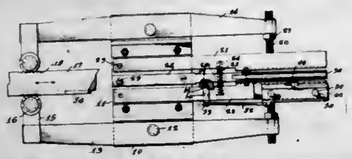


1. The method of making a sheet metal cabinet shell comprising providing a sheet metal blank and notching the marginal edges of the blank, forming the blank to U-shape, gripping the upper and lower margins and the bottoms of the sheet, and successively effecting the steps of expanding the sides of the sheet outwardly between said gripped margins by an expanding die to form pan-shaped cross-section with outwardly extending flanges, of shearing off the flanges at the bottoms of the sheet, of expanding the top end of the sheet outwardly by means of the expanding die in expanded condition to form a pan-shaped top cross-section continuous with the pan-shaped cross-sections in the sides with outwardly ex-

tending flanges, and of shearing off the flanges along the sides and top on lines at the inner ends of the notches so that the sheared flanges are divided and fall in short pieces.

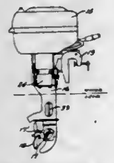
3. In a machine for drawing cabinet shells, inner and outer draw rings for gripping substantially the entire margins of a U-shaped sheet of steel, means including work engaging parts and a linkage for expanding said parts to draw the sheet outwardly between said draw rings to form a pan-like cross-section at the sides, means forming a part of the draw rings for shearing the two bottom margins of the sheet, means including the aforesaid linkage and the work engaging parts of the first named means for drawing the top of the sheet with the work engaging parts expanded to form a continuous hollow pan-like shell around the top and sides, and means forming part of the draw rings for shearing the remaining margins from the sheet.

2,638,861
LOCKSEAMER FOR CORRUGATED RADIATOR CORE BLANKS
Arthur G. Vogt, Toledo, Ohio
Application July 3, 1948, Serial No. 36,992
5 Claims. (Cl. 113—54)



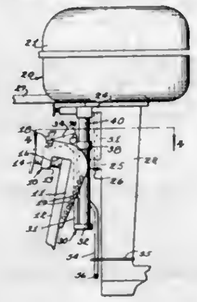
1. In a lockseamer machine for transversely corrugated radiator core blanks, blank folding die members, a reciprocable ram for carrying said blank folding die members, a pair of levers intermediately pivoted and actuated by said ram for effecting clamping movement thereof, a centrally disposed rigid arm and a pivoted spring-tensioned blank clamping arm on each side of said rigid arm movable by the adjacent lever, outwardly extending corrugated members on opposite sides of said rigid arm against which the end portions of the blank fit, said members having corrugations corresponding to the adjacent portions of the blanks to be seamed, and stop means for positioning the blanks associated with said members.

2,638,862
CLUTCH AND THROTTLE CONTROL FOR OUTBOARD MOTORS
Arthur R. Long, New Holstein, Wis., assignor to Hart-Carter Company, Peoria, Ill., a corporation of Delaware
Application December 13, 1950, Serial No. 200,660
15 Claims. (Cl. 115—17)



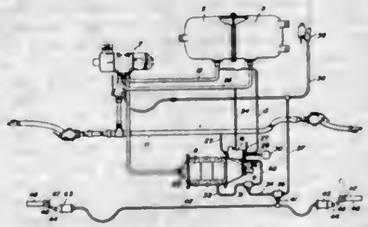
14. In an outboard motor having a powerhead, having a propeller shaft, and having a transmission connected to said powerhead and to said propeller shaft: a movable throttle arm on said powerhead; a first spring connected to said throttle arm to normally urge the latter in a throttle opening direction; a movable auxiliary arm mounted on said powerhead and engageable with a portion of said throttle arm to limit the movement of the latter in a throttle opening direction; operating linkage connected to said auxiliary arm; a second spring stronger than said first spring so connected to said operating linkage as to urge said auxiliary arm in a direction to move the throttle arm in a throttle closing direction; stop means for limiting the movement of the throttle linkage in the direction in which it is urged by said second spring; a movably mounted manually operable shifting lever connected to said transmission for shifting the latter; a cam member adjustably mounted on said shifting lever and engageable with said operating linkage, and said lever and cam being so positioned that when said lever is moved to one position the cam actuates said linkage against the action of said second spring to move the auxiliary arm in a direction to permit the first spring to move the throttle arm toward open position.

2,638,863
VERTICALLY ADJUSTABLE MOUNT FOR OUTBOARD MOTORS
Le Roy A. Kiebler, De Witt, and Donovan D. Aldrich and Dale W. Weller, Lansing, Mich.
Application August 21, 1951, Serial No. 242,896
4 Claims. (Cl. 115—18)



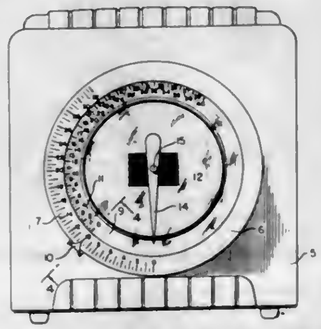
1. In combination with an outboard motor and a motor supporting bracket, a longitudinally adjustable motor mount interposed between said bracket and said motor for raising and lowering the motor when the bracket is operatively mounted on a boat comprising an auxiliary bracket structure pivotally connected at one end to said bracket for movement about an axis extending transversely of said bracket and overlapping the latter, a pair of guide tubes secured to said auxiliary bracket structure and extending from the other end of the latter longitudinally thereof in spaced apart and substantially parallel relationship to each other, cylindrical plungers slidably mounted one in each of said guide tubes and projecting from the ends of the latter remote from said other end of the auxiliary bracket structure, a yoke mounted on said cylindrical plungers at the ends of the latter projecting out of said guide tubes, a tongue depending from said yoke, means guiding said tongue relative to said auxiliary bracket structure for longitudinal movement of the former relative to the latter, means carried by said tongue and pivotally connecting said motor to said tongue for movement about an axis extending longitudinally of the latter, and manually operated means connected between said auxiliary bracket structure and said plungers for imparting substantially vertical movements to said yoke and said tongue relative to said auxiliary bracket structure.

2,638,864
EFFECTIVE BRAKE INDICATOR FOR RAILROAD CARS
Carl H. Beck, Los Altos, Calif.
Application April 3, 1951, Serial No. 219,098
9 Claims. (Cl. 116—55)



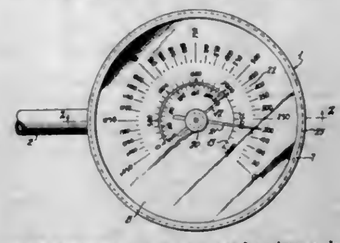
1. In a brake system for a railroad car, having a brake pipe line, an auxiliary air storage tank and a brake operating cylinder and piston, the combination of a warning signal, means normally responsive to a drop in pressure in said brake pipe line for operating said signal, and means operable by the movement of said piston for blocking the operation of said signal if the brake piston moves into normal brake applying position upon said drop in pressure.

2,638,865
WEIGHING METER
John Lindstrom, Montclair, N. J., assignor to The Viking Tool & Machine Corporation, Belleville, N. J., a corporation of New Jersey
Application January 7, 1950, Serial No. 137,449
1 Claim. (Cl. 116—129)



A weighing meter for liquids in a container comprising a casing enclosing a weighing mechanism and having a front vertical panel with a central opening, a bearing having an intermediate portion and reduced end portions, one of said end portions fitted into said front panel and having a turned edge to clamp said intermediate portion against said panel and securely fasten the bearing to the panel, an outer disc-shaped panel mounted on the other reduced end of said bearing and spaced from said front panel by said intermediate portion, said disc-shaped panel being rigidly secured to the bearing by a turned edge pressing said panel against said intermediate portion, a disc-shaped dial with a peripheral scale rotatably mounted on said intermediate portion between said outer panel and the front panel, a shaft journaled in said bearing and extending from in front of said outer panel to the rear of said front panel, means for turning said shaft on actuation of said weighing mechanism, a pointer attached to the outer end of said shaft and extending to said scale, an outer ring-shaped mounting having a cylindrical side extending outwardly from said front panel and an annular face with a stationary scale graduated to correspond with the tare of the container, said mounting being positioned concentric with said disc-shaped panel and dial and having a slot in the cylindrical side, a pointer attached to said disc-shaped dial and extending through said slot in said ring mounting and bent around with a pointer portion adjacent to said scale on said mounting, said pointer adjusting said scale on said mounting for the tare of the container.

2,638,866
COMBINATION PRESSURE AND COST COMPUTING GAUGE ATTACHMENT
Luther W. Sage, Grundy, Va.
Application June 13, 1950, Serial No. 167,885
2 Claims. (Cl. 116—129)

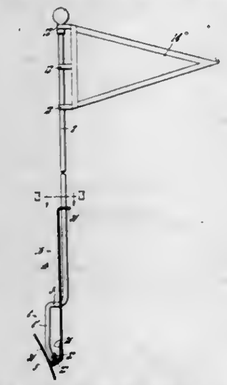


1. An attachment for gauges having a housing threaded about its peripheral edge and a driven spindle, a dial housing having a threaded collar to fit upon said gauge housing, a dial having concentric volume and cost indicating scales, a stem projecting through an opening in said dial housing for driving engagement with said spindle, a hand fixedly mounted on said stem within the dial housing for movement over said volume scale, a friction disk upon said stem in engagement with said hand, a barrel rotatably mounted upon said stem, a spring surrounding said stem within said barrel to yieldably hold said barrel in contact with said disk, and a hand carried by said barrel for movement over said cost indicating scale.

2,638,867
INSIGNIA MOUNT
George F. Felton, Millers Falls, Mass.
Application September 21, 1951, Serial No. 247,607
2 Claims. (Cl. 116—173)

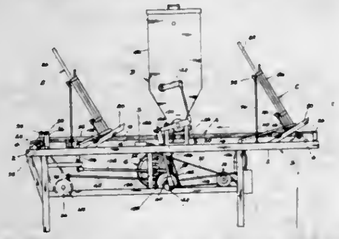
1. Insignia mounting means adapted for securement to the rain gutter of an automobile comprising in combination, a mast for an insignia and a clamp, said mast including an elongated rod like member formed to have an upper vertical main body portion and an intermediate horizontal offset portion extending rearwardly from the lower end thereof and a lower vertical portion extending downwardly from said inter-

mediate portion in parallelism with said body and provided with a lower extremity for engagement with the inner side of a rain gutter, said clamp being in the form of an elongated strip having vertical a main body and upper lock end and lower gutter engaging end and provided with a hole intermediate said ends in which the horizontal portion of said mast is disposed for relative swinging of said clamp and mast, said lower end of the clamp being inclined towards the lower extremity of said mast, said upper lock end of the clamp extending at right angles relative to the body thereof in a plane intersecting a vertical plane extending through the longi-



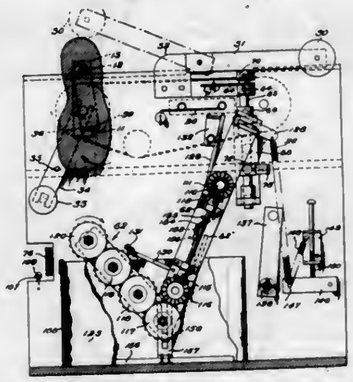
tudinal axis of the upper main body portion of the mast and provided with a locking slot extending inwardly of an edge thereof for slidably receiving a portion of the main body of the mast, all adapted and arranged whereby with the lower extremity of the mast in engagement with the inner side of a gutter and the mast extending upwardly at right angles therefrom the clamp may be swung on the intermediate portion of the mast to engage the lower end of said clamp with the outer side of the gutter and engage the mast in the locking slot of the lock end of said clamp. for clamping of the gutter between the down extremity of the mast and lower end of the clamp.

2,638,868
SANDWICH MACHINE FOR APPLYING COATINGS TO BAKERY GOODS
Harvey P. Curlee, Raleigh, N. C., assignor to Curlee Machinery Company, Inc., a corporation of North Carolina
Application March 2, 1948, Serial No. 12,661
4 Claims. (Cl. 118—27)



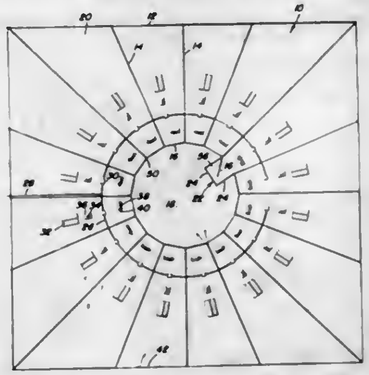
1. In a sandwich machine for coating fragile articles such as crackers, cookies, or cakes with sticky coating material, said machine including an article holding magazine, a movable article ejecting plate in said magazine, a depositor, a coating extruding mechanism in said depositor, a power driven conveyor movable beneath both said depositor and magazine, a power driven drive shaft, means for power actuating said ejecting plate from said drive shaft, means for power operating said extruding mechanism from said drive shaft, and means for power operating said conveyor from said drive shaft, the improvement comprising a first eccentric element driven by said shaft and connecting said conveyor operating means to said shaft for intermittently moving said conveyor, a second eccentric element driven by said shaft in offset relation to said first element and connecting said shaft to said means for actuating said article ejecting plate for actuating said plate to deposit an article on said conveyor only when said conveyor is moving, and a third eccentric element driven by said shaft in offset relation to said first and second elements and connecting said shaft with said means for operating said coating extruding mechanism to operate said mechanism initially only as said conveyor is moving, and finally as said conveyor is stationary, said eccentrics being so shaped and offset with respect to each other as to complete the depositing of an article from said magazine onto said conveyor and to coat an article beneath said depositor during one complete cycle of the intermittent operation of said conveyor.

2,638,869
MACHINE FOR INKING THE EDGES OF SOLES AND HEELS OF SHOES
George S. Shaak, Avon, Pa.
Application June 29, 1950, Serial No. 171,126
9 Claims. (Cl. 118—209)



6. A machine for inking the edge surface of the sole and heel of a shoe comprising a frame, a first shaft rotatably supported in the frame, a shoe retainer connected to said shaft for movement axially thereof, a second shaft rotatably supported in the frame, cooperating means connected to the second shaft and to the frame for effecting axial movement of said second shaft, a third shaft rotatably supported in the frame having a tread rest supported by one end thereof in normally spaced relation to said retainer, lever means disposed between said second and third shafts for transferring axial movement of said second shaft to said third shaft, an ink reservoir disposed beneath said third shaft, an ink-supplying assembly supported by the reservoir and being normally spaced from said retainer, means for imparting rotation to all of said shafts, a hand operable lever, connections from said lever for setting shafts into rotation, moving said retainer toward said tread rest and for moving said inking assembly toward said retainer for inking engagement with a shoe retained thereby.

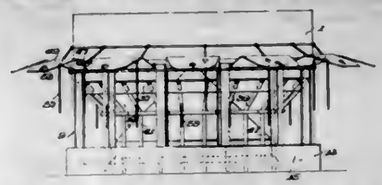
2,638,870
LIVESTOCK PEN LAYOUT
John R. Macdonald, Fort Dodge, Iowa
Application December 27, 1949, Serial No. 135,133
4 Claims. (Cl. 119—15)



1. A livestock pen layout comprising a closure fence enclosing a surface area, a plurality of spaced partition fences in said area each having its outermost extremity at said closure fence and its innermost extremity disposed upon an arc of a circle in the area, pen gates hingedly connecting the innermost extremity of each of the partition fences to the innermost extremity of the immediately adjacent partition fence, said pen gates, partition fences, and closure fence dividing said area into a plurality of livestock pens each of which is coterminous with a sector of a circle defined by said pen gates constituting a working space separated from each of said pens by one of said pen gates, a segregation pocket disposed in said working space including a plurality of gate sections hingedly connected together in end-to-end relation, the end gate sections of said pocket being hinged to the innermost extremities of a selected pair of adjacent partition fences, the pen gate connecting said selected pair of partition fences comprising an end wall of said pocket.

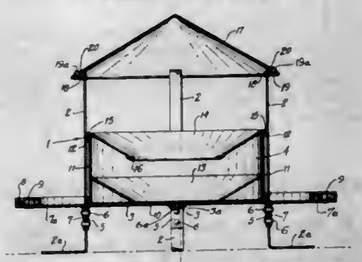
2,638,871
SELF-FEEDER SILO
Dana W. Ruedemann, Plainsboro, N. J.
Application December 8, 1950, Serial No. 199,872
9 Claims. (Cl. 119—53)

1. In a self-feeder silo, in combination, a storage cell for silage having a feeding zone and a plurality of feed openings about the base of the cell, means within the cell within the contained mass of silage for dividing the silage and constantly urging the silage in the feeding zone toward the feed openings, and means mounted within the cell at each feed opening preventing ejection of the silage through the opening while permitting an animal to eat into the silage and preventing the animal from being trapped by



falling silage, said second named means including spaced uprights and spaced top bars connected therewith.

2,638,872
FEED TROUGH
Charles A. Potter, Essex, Conn.
Application May 29, 1948, Serial No. 30,107
4 Claims. (Cl. 119—61)



1. A poultry feeder including a feed pan having a bottom portion and an inwardly and downwardly sloping wall portion, a shield generally covering said pan and having ends, and inwardly and downwardly sloping wall portions defining a centrally located opening which provides the sole access to the pan, said shield being removably supported by and on said pan, a frame supporting said pan and preventing lateral movement of said shield relative to said pan, a hood covering said pan and removably secured to said frame, and means for adjusting the height of the pan relative to the hood and the frame.

2,638,873
FOUNTAIN PEN WITH CARTRIDGE BARREL
Fred D. Woods, Glencoe, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application April 15, 1947, Serial No. 741,461
1 Claim. (Cl. 120—45.4)

In a fountain pen having a nib assembly provided with a feed tube and a feed bar therein projecting beyond the end of the tube, a removable and replaceable barrel assembly containing a relatively large ink supply, said barrel assembly including a collar rigidly affixed to the open end of the barrel and having a part extending beyond the end of the barrel and adapted to be detachably connected to a nib assembly, and a tubular member having an outer open end press-fitted inwardly of the end of said extended part of the collar and an inner end closed and projecting into the barrel to provide in one position a closure sealing the contents of the barrel and in another position receiving a limited quantity of ink from the barrel, said tubular member being

provided with a port in its tubular wall which is covered and thereby closed by the collar when the barrel is sealed against leakage but is adapted to be uncovered and opened upon contact with a feed tube part through said end of said ex-



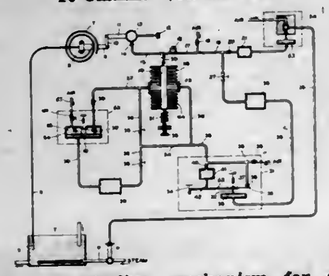
tended part of the collar and consequent lengthwise movement of the tubular member relative to the collar and inwardly of the barrel whereby said tubular member receives a limited quantity of ink from the barrel and supplies this ink to a feed tube and feed bar.

2,638,874

PNEUMATICALLY-OPERATED CONTROL INSTRUMENT WITH FOLLOW-UP

Elliot H. Woodhull, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application March 17, 1950, Serial No. 150,139
10 Claims. (Cl. 121—41)



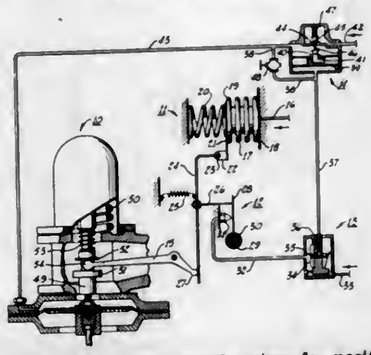
1. In a controller, mechanism for sensing changes in a variable condition, a source of elastic fluid under pressure, a pneumatic couple comprising a nozzle element and a baffle element relatively movable with respect to each other, a restriction through which said fluid is supplied to said nozzle, means including said mechanism for relatively moving said baffle and nozzle whereby the back pressure in the nozzle is changed in amounts corresponding to changes in the variable, a pneumatically operated control device, means responsive in correspondence with said back pressure for supplying throttled pressure fluid to such device, a follow-up unit tending to reduce any given relative movement of said elements without moving said mechanism, said follow-up unit including two pressure chambers and means responsive to the difference in pressure in said chambers for moving one of said elements in a direction tending to reduce any relative movement therebetween, means for applying to one of said chambers a pressure corresponding to said back pressure, and governing means for supplying fluid under modifying pressure to said other chamber, said governing means comprising two restrictions each of which communicates with said other chamber, one of which restrictions is supplied with fluid under a given pressure, the other of the restrictions being supplied with fluid under a pressure proportional to said back pressure.

2,638,875

PNEUMATIC VALVE CONTROL VOLUME BOOSTER SYSTEM

Hoel L. Bowditch and Allan R. Catheron, Foxboro, Mass., assignors to Foxboro Company, Foxboro, Mass.

Application February 12, 1952, Serial No. 271,268
3 Claims. (Cl. 121—41)



1. In a pneumatic control system for positioning a valve stem in accordance with a pneumatic control signal, a pneumatic motor for receiving a pneumatic representation of said signal and for actuating said stem in response thereto, and an arrangement for receiving said signal, producing said representation, and applying said representation to said motor; said arrangement including a member movable with said valve stem in representation of the actual movement of said stem, a pneumatic nozzle-baffle assembly operable jointly by said signal and said member, a pneumatic volume booster unit operable through the action of said nozzle-baffle assembly, a first pneumatic transmission pipe operatively connecting said assembly with said booster unit, a second pneumatic transmission pipe operatively connecting said booster unit with said pneumatic motor, and a small capacity pipe of predetermined restriction to pneumatic flow connecting said first and second transmission pipes as a by-pass with respect to said booster unit.

2,638,876

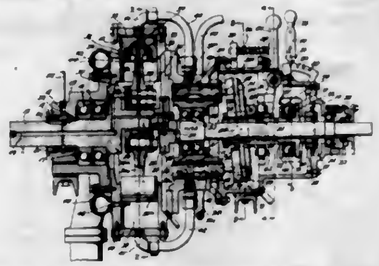
RADIAL CYLINDER ENGINE

Harry C. Dunning, Columbus, Ohio

Application September 10, 1951, Serial No. 245,856
4 Claims. (Cl. 121—120)

1. A fluid-actuated motor, comprising a casing, a shaft rotatably supported by said casing and extending longitudinally of the axis thereof, said casing being formed with a plurality of radially disposed piston cylinders, the latter being closed at their outer ends and having their inner ends in open communication with a crank chamber

formed in said casing, a crank forming a part of said shaft and rotatable in said chamber, pistons slidably mounted in said cylinders, a collar assembly surrounding said crank, connecting rod means extending from said collar assembly to each of said pistons, said casing being formed with a plurality of open-ended valve chambers arranged in circularly spaced relationship concentric with the axis of and extending parallel to said shaft, means for conducting an expansible working fluid under pressure from a source of supply to said valve chambers, valves slidably mounted in said chambers, wabble-plate



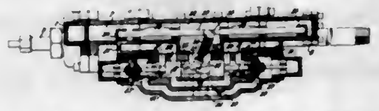
means disposed within said casing concentric to and actuated by the rotation of said shaft for imparting sliding movement to said valves, fluid inlet connections leading from said valve chambers to the closed ends of said cylinders and operative when said valves occupy one position of operation in said cylinders to admit regulated quantities of the expansible fluid into said cylinders to effect operation of said pistons, and exhaust means communicating with said cylinders and operative upon predetermined travel of said pistons on power-delivering strokes to open and exhaust spent fluid from said cylinders.

2,638,877

FLUID MOTOR

Frank R. Emig, Wadsworth, Ohio, assignor to The Ohio Injector Company, Wadsworth, Ohio, a corporation of Ohio

Application November 8, 1949, Serial No. 126,228
5 Claims. (Cl. 121—164)



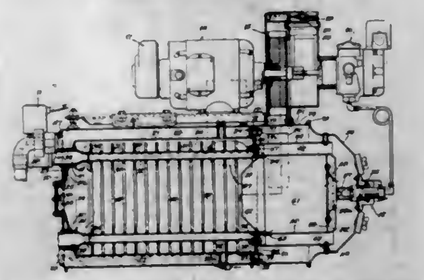
1. A fluid actuated motor having a body provided with a power cylinder, a power piston reciprocative in said cylinder and to which means to be reciprocated may be connected, and means for controlling the flow of motive fluid alternately to and from the opposite ends of said cylinder, said controlling means including inlet and exhaust ports in said body and communicating with the cylinder at opposite ends thereof and with a source of motive fluid and with an exhaust cavity in said body, respectively, a reversing valve cooperatively associated with said ports and reciprocable relatively thereto and subjected to fluid pressure serving normally to hold it immovable, means operable in response to reciprocation of said power piston for mechanically imparting preliminary movement to said reversing valve in opposition to the holding effect of said fluid pressure, and including means for thereafter automatically biasing said reversing valve to complete its movement alternately in one or the other direction of its reciprocation, and pressure relief valve means mechanically actuated by said reversing valve during its preliminary movement and serving to relieve the fluid pressure acting upon said reversing valve to thereby permit substantially instantaneous operation of said biasing means.

2,638,878

WATER HEATER HAVING EXTENSIVE HEAT TRANSFER SURFACES

Albert Lemos, Jr., Hinsdale, and Richard Cunningham, Jr., Downers Grove, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware

Application January 19, 1951, Serial No. 206,888
5 Claims. (Cl. 122—136)



1. A boiler structure of high capacity in relation to its size comprising, in combination, a cylindrical water jacket comprising concentrically arranged tubular sections, the inner section of which defines the side wall of a cylindrical heat transfer chamber, a fuel burner including a cylindrical firepot located at one end of said water jacket and means for directing combustion air into the firepot tangential to its side wall and operative to form a vortex flame and to direct said flame and hot gases of combustion axis-wise into the heat transfer chamber of said water jacket, and a plurality of thermally conductive rings of identical construction arranged co-axial with and metallically bonded to the inner wall of said water jacket and spaced apart axis-wise thereof, whereby the vortex flame and hot gases swirl around the heat transfer chamber between said rings, each of said rings having a plurality of circumferentially spaced teeth projecting toward the axis of the water jacket, the teeth of each ring being of a depth, radially, at least equal to a major portion of the radial width of the ring and arranged in staggered relation with the teeth of adjacent rings to provide tortuous passages for directing portions of said swirling flame and gases axially of said heat transfer chamber.

2,638,879

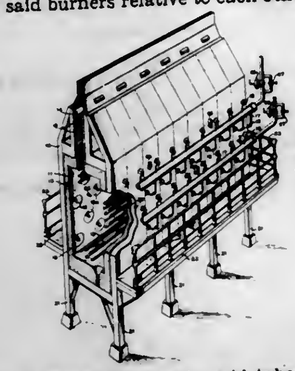
APPARATUS FOR HEAT TREATMENT OF FLUENT SUBSTANCES

Frederic O. Hess, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application June 30, 1947, Serial No. 758,022
9 Claims. (Cl. 122—356)

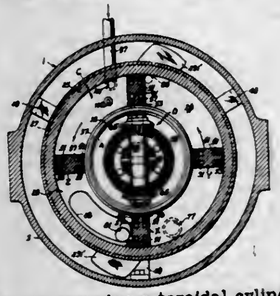
6. Apparatus for the continuous heat treatment of fluent substance flowing in a confined path comprising wall structure of refractory material defining a relatively narrow chamber, a

horizontally disposed serpentine tube disposed centrally within said chamber whereby material treated will flow back and forth in a series of substantially horizontally disposed passes between the upper and lower portions of said chamber, a plurality of horizontal rows of burners distributed over the interior of the walls of said chamber on opposite sides of said tube, the spacing of said burners relative to each other and the



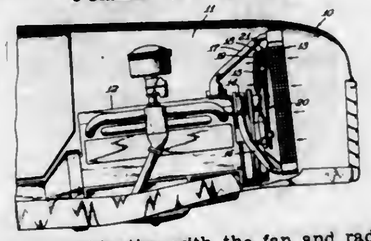
spacing thereof relative to said tube being in a manner to provide intimately overlapping radiant heat areas located throughout the length of said tube for providing uniform and continuous heat distribution, means for selectively controlling the fuel supplied to each row of burner whereby upon operation of said control means the heat output of the associated burners can be varied for modifying the temperature of the tube portion receiving heat from that burner.

2,638,880
ROTARY EXPANSION ENGINE
George E. Mallinckrodt, St. Louis, Mo.
Application November 8, 1950, Serial No. 194,599
12 Claims. (Cl. 123—11)



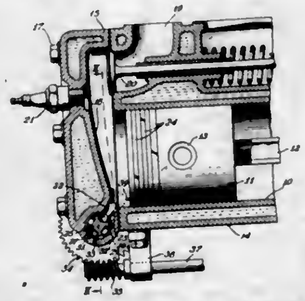
1. In a rotary engine a toroidal cylinder, relatively movable pistons in the cylinder successively passing in the same direction a predetermined reverse locking position prior to an expansion event, means responsive to expansion for successively reverse locking the pistons as they reach said position, each succeeding piston compressing a charge against a preceding piston when the latter is reverse locked, said compressed charge being adapted to move the reverse locked piston from said locking position after said expansion event has substantially progressed, relatively movable rotors carrying the respective pistons to and from the locking position, and centrifugal apparatus on each rotor responsive to rotor speed temporarily to increase the moment of inertia of the respective rotor and its connected parts over the moment of inertia of the other rotor and its connected parts, as a piston of the former approaches a reverse locking position.

2,638,881
TEMPERATURE CONTROL OF ENGINE COOLING
William J. Pankuch and William S. Gleeson, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 26, 1951, Serial No. 208,007
8 Claims. (Cl. 123—41.05)



1. In combination with the fan and radiator assembly of a liquid cooled internal combustion engine, a shroud extending from the radiator into spaced surrounding relation with the fan, a stationary shutter part in the shroud confronting the inlet face of the fan in closely spaced relation therewith, a movable shutter part in the shroud in closely spaced confronting relation with the stationary part, said shutter parts coacting with said shroud to provide a passageway in the shroud communicating with the periphery of the fan even when the shutter is in closed position, and means for shifting the movable shutter part relative to the stationary shutter part for opening and closing the shutter, whereupon in the open position of the shutter air will flow axially through the radiator, the shroud and the fan, and in the closed position of the shutter air will flow radially from the fan through the passageway past the shutter into the radiator.

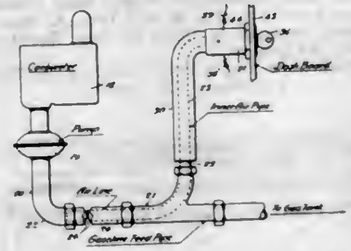
2,638,882
CARBON-FREE OPERATION OF INTERNAL-COMBUSTION ENGINES
Elmer Ryder, Aurora, Ill.
Application December 20, 1948, Serial No. 66,328
6 Claims. (Cl. 123—191)



1. In combination in an internal combustion engine including a cylinder and piston operable

therein and a cylinder head providing a compression chamber having fuel inlet and exhaust passages leading from a high position therein, a sump depression at the lowest point in said compression chamber for collecting carbon gravitationally, and means effecting drainage from said sump while maintaining a compression tight closure for the sump, said means comprising a drainage pocketed plug valve rotatably mounted under said sump.

2,638,883
FUEL DILUTION DEVICE
Charles Simon, Lynbrook, N. Y.
Application December 30, 1949, Serial No. 136,099
3 Claims. (Cl. 123—198)



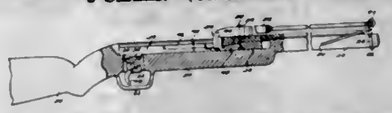
1. In an automobile, the combination of a carburetor, a fuel supply, a pipe between said carburetor and said supply, a pump for moving fuel from said supply to said carburetor, a joint in said pipe, a secondary piping leading through said joint into said first pipe and extending to a point higher than said carburetor, an automatically opened valve in said second piping to admit air into said fuel pipe, and means for closing said valve to prevent air from reaching said carburetor.

2,638,884
AIR GUN
William S. Wells, Palo Alto, Calif., assignor to Daisy Manufacturing Company, Plymouth, Mich., a corporation of Michigan
Application January 27, 1951, Serial No. 208,092
4 Claims. (Cl. 124—15)



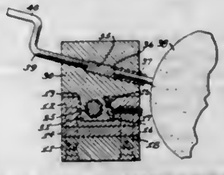
3. In an air gun, a barrel adapted to receive a projectile, a chamber for holding a charge of compressed air, charging mechanism for compressing air within said chamber, valve means disposed between said chamber and said barrel for controlling communication between the same, said valve means including a valve body having a passageway communicating with said chamber and with said barrel, a sealing element engaging said valve body adjacent said chamber and having an aperture therein in alignment with said valve body passageway, an elongated valve element slidably disposed in said valve body and having an end portion frictionally insertable into said sealing element aperture when said valve element is in its closed position to prevent air from flowing from said chamber to said barrel, said valve element being adapted to be forced from engagement with said sealing element by a charge of air within said chamber so as to open said valve means and permit air to flow from said chamber to said barrel, means engageable with said valve element to retain the same in said closed position and releasable to permit said valve element to open when it is desired to propel a projectile from said barrel, and actuatable means operatively connected with said charging mechanism for moving said valve element from its open position to its closed position upon actuation of said charging mechanism.

2,638,885
SLINGSHOT GUN
James R. Keadle, Alderson, W. Va.
Application July 23, 1951, Serial No. 238,076
5 Claims. (Cl. 124—20)



1. A sling shot gun comprising a stock having a handle on one end with a barrel extended from the opposite end, means mounting an elastic band on the end of the barrel, a breech block slidably mounted in the stock, gripping jaws pivotally mounted on the breech block and positioned to retain a projectile held in the said elastic band, a sear mounted in the stock in the path of movement of said breech block, and a trigger for actuating the said sear to actuate the said jaws to release the projectile and elastic band.

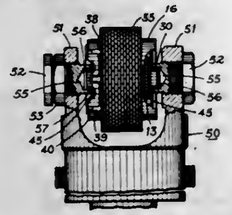
2,638,886
GRINDING WHEEL DRESSER
Cecil D. Chandler, Odessa, Tex.
Application September 7, 1951, Serial No. 245,543
3 Claims. (Cl. 125—11)



1. A grinding wheel dresser comprising a base of rectangular shape including a magnetized bottom block, a top block superimposed on said bottom block and having an undercut groove extending longitudinally thereof and opening to the side of said top block remote from said bottom block, and a separator plate of non-magnetic material interposed between said top and bottom blocks, end plates secured to said base one at each end thereof and having apertures opening into said groove at the corresponding ends of the latter, a slide block mounted on said top block for sliding movement longitudinally of the latter and having a key slidably received in said groove and provided with a screw threaded aperture extending transversely therethrough, a screw shaft journaled at its ends in the apertures in said end plates and threaded through the aperture in said key, means connected to said screw shaft for imparting rotational movements in either direction thereto to slide said slide block longitudinally of said base, said slide block having a bore extending transversely therethrough with its center line substantially at right angles to the axis of said

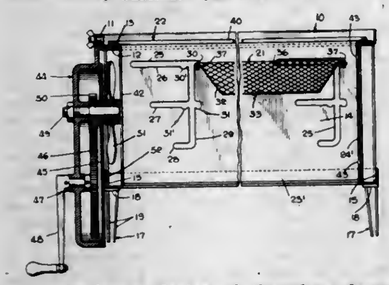
screw shaft and inclined relative to the surface of said bottom block remote from said top block, said bore being threaded from one end to a location intermediate the length thereof, a dressing point carrier slidably mounted in said bore and projecting from the other end thereof, and an adjusting screw threaded into the screw threaded portion of said bore and projecting from said one end thereof with its end disposed inwardly of said bore in contact with the adjacent end of said point carrier.

2,638,887
GRINDING WHEEL DRESSER
George Eaton, Urbana, Ohio, assignor to The Desmond-Stephan Mfg. Co., Urbana, Ohio, a partnership
Application December 2, 1949, Serial No. 130,700
14 Claims. (Cl. 125—37)



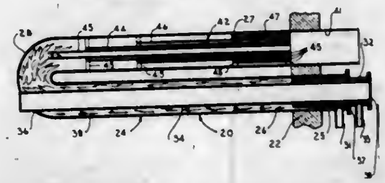
1. A grinding wheel dresser comprising a head, a dresser assembly rotatably supported in said head and including a sleeve, a set of dresser cutters on said sleeve, a plurality of separate ball bearings mounted within said sleeve having inner and outer races, said outer races being mounted in said sleeve in spaced relation with each other, a pin directly fitting in and projecting through both said inner races, means independent of said pin establishing direct bearing engagement between adjacent ends of the inner races of said bearings, and pressure applying means carried by said head in spaced relation with said sleeve and having direct thrust transmitting engagement with the two outer ends of said inner bearing races respectively to apply axial pressure thereto to locate and secure said assembly within said head.

2,638,888
BARBECUE DEVICE
Charles P. Molla, New Hyde Park, N. Y., assignor to Molla Incorporated, New York, N. Y., a corporation of New York
Application December 8, 1949, Serial No. 131,808
9 Claims. (Cl. 126—25)



1. A barbecue device of the class described, comprising a rectangular frame, defined by upper and lower angleiron members joined by corner posts, legs detachable with respect to the frame, a casing detachably mounted upon the upper angleiron member of the frame, opposed walls of the casing having pairs of substantially inverted F-shaped apertures, the apertures in one wall being in alinement with those of the opposed wall, a firebox unit including a pair of rods movably mounted in said apertures to adjust the position of the firebox horizontally and vertically in the casing, and a grill detachably mounted on the upper end portion of the casing.

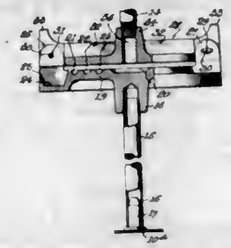
2,638,889
HEAT-TREATING ELEMENT FOR HEAT-TREATING FURNACES
John A. Dow, Huntington Woods, Mich.; Doris B. Dow, administratrix of said John A. Dow, deceased, assignor to Doris B. Dow, Royal Oak, Mich., as trustee
Application May 8, 1947, Serial No. 746,724
3 Claims. (Cl. 126—91)



3. A heating element for heat treating furnaces comprising a heating tube adapted to be disposed within a furnace for heating work to be disposed therein, the interior of said heating tube providing a combustion chamber for the combustion of a gaseous combustible mixture to be supplied thereto, the exterior of said heating tube providing a heating surface for heating said work in response to the combustion of said mixture therein, said heating tube being provided with inlet and outlet means for supplying thereto and discharging therefrom said mixture and the products of said combustion respectively, and radiant heat absorbing and radiating means disposed within the outlet portion of said combustion chamber for increasing the heating effect of said heating element at the outlet portion thereof so as to tend to maintain the exterior surface temperature along the tube at the outlet portion thereof relatively uniform and at a value which approximates the average temperature of the tube at the inlet portion thereof, said means comprising a plurality of sheets of material having parallel opposite surfaces, said sheets being of different lengths, said lengths decreasing from said inlet toward said outlet.

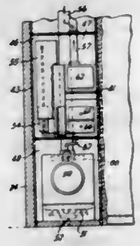
2,638,890
OIL BURNER AND SUPPORT THEREFOR
Horace E. Hopkins, Jeffersonville, Ind.
Application August 8, 1949, Serial No. 109,211
4 Claims. (Cl. 126—93)
(Granted under Title 35, U. S. Code (1952), sec. 266)

2. In combination with a heating stove having a bottom; upstanding means fixed to the stove bottom; a tubular vertical standard fitting over but removable from the upstanding means and having screwthreads on its upper end; a burner base screwed at its center to the upper end of the standard; a burner top secured to the burner base in spaced relation thereto; and liquid-fuel-delivering means connected to the burner top and adapted to discharge fuel by gravity into the space between the burner top and base; the



standard constituting the sole support for the burner and in turn receiving its sole support from the stove bottom.

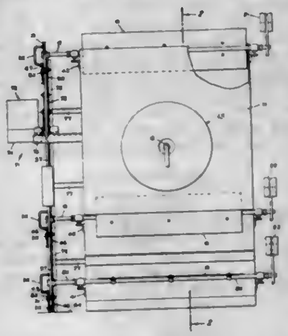
2,638,891
COMBINATION SPACE AND WATER HEATER AND INCINERATOR UNIT
Guyon L. C. Earle, Forest Hills, N. Y.
Application December 12, 1947, Serial No. 791,255
2 Claims. (Cl. 126—224)



1. A single-package house heater and incinerator unit comprising an enclosure member formed by vertical insulated walls, an insulated top and an insulated bottom, said enclosure member having upper and lower portions, a space heater located in said lower portion, a hot water heater element in said space heater, an incinerator and a hot water tank located in said upper portion, and closed piping between said hot water heater element and said hot water tank, said piping passing through said incinerator to dry garbage placed therein.

2,638,892
FURNACE DAMPER CONTROL
Dale V. Hammond, Pittsburg, Kans., and Thomas R. Shaw and Guy O. Miller, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application December 22, 1947, Serial No. 793,238
4 Claims. (Cl. 126—286)

1. A damper operating device comprising, in combination, a damper disposed in a gas carrying conduit and mounted on a shaft, said damper being nonrotatable with respect to said shaft, both ends of said shaft extending beyond the confines of said conduit, a weighted damper closing means at one end of said shaft and outside of said conduit for constantly biasing said damper toward a closed position, a sprocket wheel on the other end of said damper shaft, a hand lever pivoted at one end to a fixed support for vertical movement with respect to said sprocket wheel, a sprocket tooth attached to said hand lever in such a manner as to mesh between teeth of said sprocket wheel when the other end of said hand lever is in a raised position and to disengage from the teeth of said sprocket wheel when said other end of the lever is in a lowered position, a compression spring for biasing said other end of said hand lever toward said raised position, a vertically disposed weighted shaft, means for guiding said vertical shaft for vertical reciprocating movement only, means attached to said vertically disposed weighted shaft and engaging said lever to bias said compression spring upwardly in a compressed condition when said vertically disposed shaft is positioned at the upward end of its extent of longitudinal movement, and a toggle assembly for holding said vertically disposed shaft at the upper end of its extent of longitudinal movement, said toggle assembly comprising a first and lower fixed pivot, a first generally upright disposed toggle arm member rotatably fixed

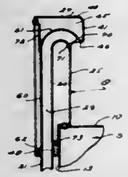


at its lower end to said first pivot, a second generally upright disposed toggle arm member pivoted at its lower end to the upper end of said first arm member at a second and generally horizontally movable pivot point, the upper end of said second toggle arm member being pivoted to said vertically disposed weighted shaft, aforesaid pivot points being disposed substantially in a straight line when said vertically disposed weighted shaft is at the upper end of its extent of longitudinal movement, stop means to prevent movement of said second pivot point in one horizontal direction from its substantially centered position, means to move said second pivot point from said centered position in the opposite horizontal direction whereupon said vertically disposed weighted shaft moves downward by force of gravity to release the bias of said compression spring to unmesh said sprocket tooth from said sprocket wheel and said damper will return to its closed position under the influence of its bias, and a manually operable means for rotating said damper shaft to open said damper against its bias.

2,638,893
VENTED GUARDRAIL FOR STOVES
Daniel P. O'Keefe, Los Angeles, Calif.
Application May 2, 1949, Serial No. 90,813
10 Claims. (Cl. 126—299)

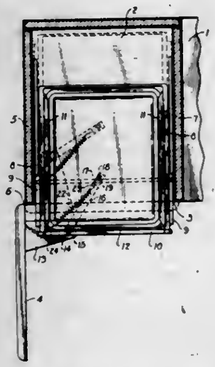
4. A stove including, a box-like body provided with a back, a top, an upwardly opening

vent flue at the back of the body, and a guard rail having a substantially vertical front wall located above the top of the body, end walls projecting rearwardly from the ends of the front wall, and beyond the back of the body, a top wall projecting rearwardly of the front wall beyond the back of the body and having a portion projecting forwardly of the front wall, a lip depending from the forward edge of the said forwardly projecting portion, and a duct having a vertical shaft portion extending up from the opening of the flue behind the back of the body



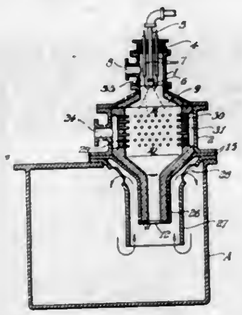
and the front wall and having a forwardly projecting curved head continuing from the upper end of the shaft portion and discharging downwardly between the lip and the front wall, the shaft portion being spaced behind the front wall and rearwardly of the back of the body and joined to the upper end of the flue at a point below the top of the body, the structure defined by the said walls being open at the rear and encasing the duct at the top and sides thereof.

2,638,894
BROILER RACK OPERATING MECHANISM
James F. Corn, Jr., Cleveland, Tenn., assignor to Hardwick Stove Company, Incorporated, Cleveland, Tenn., a corporation of Delaware
Application March 29, 1950, Serial No. 152,735
4 Claims. (Cl. 126—340)



1. A stove comprising a broiling compartment having side walls and a door opening, brackets secured to said side walls, a broiler rack having inwardly extending ledges for supporting a pan and formed with outwardly extending flanges seating on said brackets for sliding movement through said door opening, a door hinged to one of said side walls for closing said opening and having a lug extending therefrom, a lever parallel to said rack and having a longitudinally extending slot therein at one end, means operatively associated with said slot by which said lever is slidably and pivotally attached to said broiler rack, means for pivotally and removably attaching said lever at its other end to said lug, a tension spring parallel to said rack connected at one end to the lever and at its other end connected to the rack, initial movement of the door in one direction causing the lug to align the lever with the spring and to move the lever inwardly relative to the rack resisted by the spring, and further movement in the same direction causing the spring and the lever to assume disaligned positions which will be accelerated by the action of the spring.

2,638,895
SUBMERGED FLAME BURNER
Norman Swindin, London, England
Application August 18, 1947, Serial No. 769,294
In Great Britain August 19, 1946
1 Claim. (Cl. 126—360)



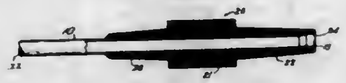
A submerged flame burner for operation with liquid fuel for heating a liquid, comprising a combustion chamber having a cylindrical main portion and a downwardly directed flame orifice at its lower end of smaller cross sectional area than that of the main portion of the combustion chamber, and having means for mounting it with the axis of its cylindrical portion upright and with said orifice submerged in a body of liquid, said main portion of said combustion chamber being formed with concentric walls having an annular space therebetween, means for supplying air to said space, the inner of said walls being formed of refractory material and provided with a plurality of tubes of refractory material extending therethrough, the inner ends of said tubes protruding into the combustion chamber and the outer ends of said tubes communicating with said annular space to adapt said tubes to pass preheated air to said combustion chamber, a housing fixed to and closing the upper portion of the combustion chamber and having a passage therein coaxial with and communicating with the upper portion of the combustion chamber, spraying means for supplying atomized liquid fuel to the passage in the housing, the combustion chamber having a throat in its upper portion which is coaxial and continuous with the main portion thereof and leads from said passage in the housing and widens toward the main portion of the combustion chamber, and means for supplying compressed air to said passage at a level above the level of supply of fuel thereto for deflecting the fuel introduced therein downwardly into the combustion chamber.

2,638,896
SPRING STRUCTURE
John T. Clark, Cicero, Ill.
Application July 10, 1948, Serial No. 38,034
6 Claims. (Cl. 128—127)



1. In combination a composite spring structure comprising a member generally flexible in all directions and a member flexible in only one direction, said first member comprising a coil spring, said second member comprising a flat spring arranged in generally circular plan with overlapping, freely movable ends within said coil spring, said spring structure being combined with a body of rubber-like material enclosing said spring structure.

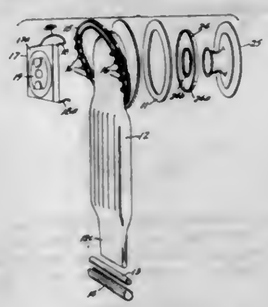
2,638,897
FLARED EXIT PHLEBOTOMY NEEDLE
Edward J. Poitras, Holliston, Mass.
Application January 18, 1951, Serial No. 206,599
6 Claims. (Cl. 128—221)



1. A new and improved anti-coagulant hypodermic needle adapted directly and sealingly to be coupled to a blood conducting member, said needle comprising a rigid cannula having opposite pointed and non-pointed ends, said cannula defining and extending continuously over substantially the full length of the needle, an elongate coupling and manipulating element directly concentrically surrounding an intermediate portion of the cannula and the adjoining non-pointed end thereof, said cannula having a laminar flow promoting lumen of generally uniform diameter but formed at the non-pointed end with a gently flaring enlargement of the opening reducing the wall thickness of the needle at said end and also guiding and controlling the flow of the blood for minimum disturbance in the region of the coupling whereby clotting of the blood thereat is substantially eliminated.

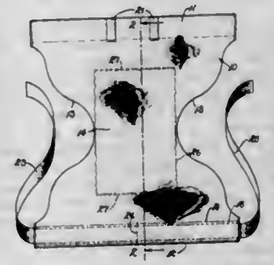
2,638,898
STOMA RECEIVER
Murle Perry, Minneapolis, Minn.
Application July 7, 1950, Serial No. 172,520
10 Claims. (Cl. 128—283)

7. A stoma receiver comprising a flexible apertured disc adapted to be cemented directly to the body of the wearer to receive a stoma through the aperture thereof, a flexible resilient tubular extension projecting outwardly from the outer side of said disc, an apertured head having an outwardly projecting grooved flange, said tubular extension being adapted to be projected through said aperture in said head with the outer portion thereof engaged by said grooved flange, means for sealingly attaching the mouth of a container to



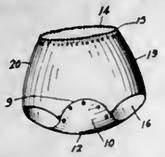
said apertured head, and means for attaching said container and said head to the body of a wearer.

2,638,899
SANITARY GARMENT
Alice Ambarian, Fresno, Calif.
Application September 14, 1951, Serial No. 246,583
4 Claims. (Cl. 128—284)



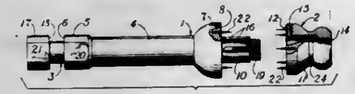
4. An infant's diaper comprising an elongated longitudinally U-shaped member of absorbent sheet material having an upwardly extended forward end edge, an upwardly extended rearward end edge and a central crotch portion of reduced width intermediate the end edges, the forward end edge having opposite side edges arcuately rearwardly extended and the rearward end edge having opposite side edges arcuately forwardly extended in overlying relation to the rearwardly extended side edges of the forward edge, means for releasably securing the side edges of the rearward end edge in said overlying relation to the side edges of the forward edge, a rectangular panel of absorbent sheet material of a transverse dimension of the crotch portion of the sheet member and a length substantially less than the length of the sheet member positioned longitudinally of the sheet member inwardly disposed in the crotch portion and having opposite ends secured to the sheet member in substantially parallel spaced relation to the end edges of the sheet member, elastic strips mounted in the opposite side edges of the panel having opposite ends secured to the sheet member at opposite ends of the panel, and a disposable pad of absorbent material fitted between the panel and the sheet member.

2,638,900
BABY PANTY STRUCTURE OR THE LIKE
Leo Gruenberg and Bernard Fletcher, New York, N. Y.
Application May 24, 1950, Serial No. 164,810
8 Claims. (Cl. 128—288)



3. A garment comprising panties made of knitted fabric, the fibers of which are impregnated with a water repellent substance comprising substantially methyl methacrylate and methylene chloride.

2,638,901
SURGICAL CLAMP
Everett D. Sugarbaker, Jefferson City, Mo.
Application July 30, 1951, Serial No. 239,245
12 Claims. (Cl. 128—334)



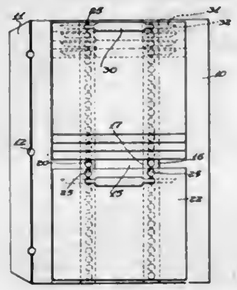
1. In a recto-colic anastomosis clamp adjustable from below the anal sphincter of the patient when in use, the combination of a central tube of such length as to extend from within the colon to a point below the anal sphincter and provided at one end with an exteriorly enlarged portion presenting a transverse stop shoulder; a first clamping member including a body portion with an annular clamping face, and an extended shank terminating in a transverse shoulder directed away from said face, and an axial bore, said first clamping member being positioned on said tube with its transverse shoulder facing the stop shoulder of said tube; a second clamping member including an annular clamping face and an axial bore, said second clamping member being positioned with its face directed toward that of said first clamping member and with its bore embracing said central tube, and manually operable means including said tube for establishing relative axial adjustment of said second clamping member along said tube to vary the spacing between said clamping faces.

2,638,902
BOOK AND BINDER THEREFOR
Charles Edward Emmer, Chicago, Ill., assignor to General Binding Corporation, Chicago, Ill., a corporation of Illinois
Application October 25, 1947, Serial No. 782,063
1 Claim. (Cl. 129—1)



A binder, for securing together a plurality of sheets provided with aligned perforations along one of their edges, formed of resilient material and comprising a backbone having a plurality of fingers extending from one longitudinal edge thereof, each finger having a curled body portion and a tip portion bent sharply inwardly, said backbone having a plurality of spaced notches along its other longitudinal edge, the elbow formed by the junction of said body portion of each finger and said tip portion being disposed in a notch of said backbone, said tip portion of each finger being disposed at a substantial angle to the marginal portion of said backbone which has the notches therein.

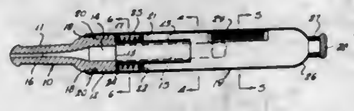
2,638,903
VISIBLE INDEX UNIT
Rudolph Janovsky, Berwyn, and Saul Hurtig, Chicago, Ill.
Application June 19, 1951, Serial No. 232,328
1 Claim. (Cl. 129—16)



A visible index unit comprising a base member, a retainer member comprising a central body portion rigidly secured to said base member, and a pair of oppositely disposed laterally extending wings foldable upwardly relative to said base member, each of said wings being provided with a series of perforations, each perforation in one wing being aligned laterally with a corresponding perforation in said other wing, a series of sheets, each of said sheets being provided with two vertically spaced pairs of perforations adapted to register with two adjacent pairs of perforations in said wings, and a pair of fastening members each having a body portion and a pair of end portions, one of said fastening members having its body portion overlying the portion of one of said sheets between the lower pair of perforations and having its end portions extending through said lower pair of perforations and through perforations in the preceding sheet and said wings aligned therewith, said other fastening member having its body portion overlying the portion of said first mentioned sheet between the upper pair of perforations and having its end portions extending through said upper pair of perforations and through perforations in said wings aligned therewith, whereby each of said sheets is secured to said wings at a plurality of vertically spaced positions.

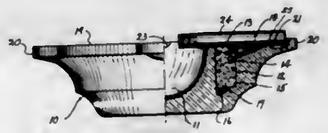
2,638,904
CIGARETTE HOLDER
Amos M. Mitchell, Pueblo, Colo.
Application April 18, 1950, Serial No. 156,658
2 Claims. (Cl. 131—175)

2. A cigarette holder comprising a mouthpiece including a stem portion and a head projecting from one end of said stem portion, said head being provided with a bore extending therethrough of a diameter such as to embracingly receive an end of a cigarette and in communication with an axial bore formed in said stem portion, a hollow casing arranged longitudinally of said head and having one end frictionally surrounding and connected to said head for rotary and reciprocatory movement and having the other end closed, a flange positioned within said casing adjacent to and spaced from one end thereof and carried by the inner surface of said casing, a screen in the wall of said casing adjacent to and spaced inwardly of the closed end of said casing and providing an air and smoke



passage, a sleeve of a diameter such as to spacedly receive a cigarette positioned within and slidably supported in said flange and having a flange on one end abutting said head and slidably engaging the adjacent inner surface portion of said casing, the other end of said sleeve being positioned adjacent to said screen, and a compressible coiled spring circumposed about said sleeve and engaging said flanges and serving to bias said one end of said sleeve into abutment with said head.

2,638,905
ASH TRAY
James Morrison, Seattle, Wash.
Application February 28, 1949, Serial No. 78,833
1 Claim. (Cl. 131—236)



An ash tray comprising a body having a central ash-receiving bowl and a continuous water-holding channel surrounding the bowl, said channel being spaced inwardly from the peripheral edge of the body and separated from the bowl by a partition constituting the wall of the bowl and also defining an inner side wall for the channel, the upper edge of said partition being formed with spaced notches about the bowl, said channel being open along its top and having an outer side wall having its inner upper edge below the level of the upper edge of its inner side wall, and a ledge in the lower portion of said channel spaced upwardly from the bottom thereof, the channel being surrounded by a sloping surface extending at an upward incline from the inner upper edge of the outer wall of the channel toward the marginal portion of the body, the marginal portion of the body being provided with outwardly projecting portions each disposed opposite a companion notch and formed with a recess, each projecting portion being set off from the outer side edge of the sloping surface by a ridge extending across the recess and spaced upwardly from the bottom of the recess, and a sponge adapted to be fitted into said channel through the open top thereof and supported by and upon said ledge, the upper surface of said sponge extending transversely at an upward incline from the inner upper edge of the outer wall of the channel to the inner wall thereof, when positioned in said channel.

2,638,906
TOBACCO APPLIANCE
Sylvester A. Schramm, Short Hills, N. J.
Application January 22, 1949, Serial No. 72,157
1 Claim. (Cl. 131—257)



A shield for a smoking article of the class of cigarettes and the like comprising a support tube adapted to grip the article near the mouth end thereof and having a length only a small fraction of the length of said article, and an open-work globular member attached at one end portion thereof to the support tube and having an opening at the other end portion for the article to pass therethrough, said globular member having a diameter at the largest portion thereof which is at least several times the article diameter and having a length which is shorter than that of said article before use and said support member having a greater density than said globular member.

2,638,907
COMB WITH SCISSORS REST
Mathew L. Boyer, Nome, Tex., assignor of forty per cent to C. D. Victery, Liberty, Tex.
Application January 10, 1952, Serial No. 265,768
1 Claim. (Cl. 132—11)



As a new article of manufacture, a barber's comb embodying a back provided with teeth, and a hook-shaped scissors rest having a shank attached to said back and a beak projecting beyond the shank, the shank being coplanar with said back, and said beak being at approximate right angles to said shank and the upper scissors-supporting surface of said beak being concave.

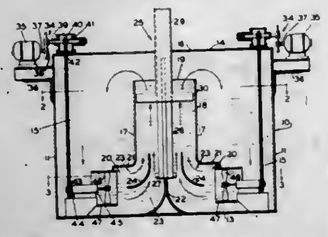
2,638,908
CURL CLIP
John Schildt, Baldwin, N. Y.
Application August 15, 1952, Serial No. 304,459
3 Claims. (Cl. 132—46)



1. A hair clip comprising a lower part and an upper part, each made of a single piece of sheet metal, the lower part comprising an intermediate portion, and a flat jaw extending forwardly therefrom, and a handle extending rearwardly therefrom and slightly inclined upwardly, said intermediate portion and handle being formed with an opening, and the metal from said opening forming an upwardly and forwardly curved spring tongue with the free end of the tongue extending downwardly, said opening being formed with opposite notches and the metal from the notches extending upwardly to form a pair of parallel spaced lugs at opposite sides of said

spring tongue, the upper part having an intermediate portion from which extend forwardly a jaw inclined downwardly so that the forward ends of the two jaws contact, a portion curved downwardly from said intermediate portion and contacting the upper side of the intermediate portion of the lower part, a handle sharply inclined upwardly and rearwardly and extending from said downwardly curved portion, said downwardly curved portion being formed with transverse slots forming a pair of notches, and said lugs projecting upwardly through said notches, and said handle of the upper part being formed with an opening communicating with said transverse slot, and said spring tongue passing through said opening in the handle of the upper part, and the free end of said spring tongue pressing downwardly against the intermediate portion of the upper part to normally close said jaws, whereby pressure of the handles toward each other will cause the jaw of the upper part to move away from the jaw of the lower part and thereby to tension the spring tongue.

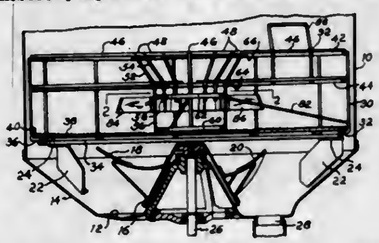
2,638,909
QUENCH TANK FOR HEAT-TREATING PROCESSES
William C. Hiatt and Walter B. Cheney, New Haven, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application September 22, 1949, Serial No. 117,164
5 Claims. (Cl. 134—147)



1. A device for quenching heated articles comprising a quench tank having a fluid chamber, walls extending vertically within said chamber, said walls defining a passageway open at its upper end for communication with said chamber, said walls having inlet openings adjacent their lower ends, a baffle positioned at the lower end of said passageway arranged to divide the lower end thereof into separate inlet channels, each channel including wall portions projecting outwardly from the passageway into the chamber, an impeller positioned adjacent each inlet channel, each impeller being arranged to impel quench fluid at high velocity from the chamber through said passageway, and an article carrier positioned in said passageway whereby articles to be quenched on the carrier are immersed in the high velocity flow.

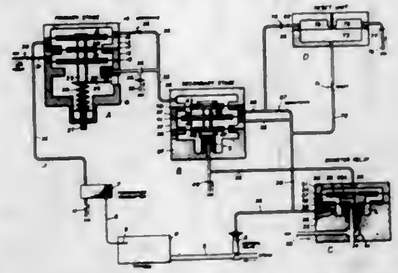
2,638,910
RACK FOR DISHWASHERS
Willard R. Walker, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application August 16, 1948, Serial No. 44,542
14 Claims. (Cl. 134—182)

1. A dish rack comprising a plurality of wire frames radially arranged and lying substantially in radial planes, each of said frames being composed of horizontally disposed elements, peripherally disposed vertical elements, and centrally disposed elements defining an aperture to receive a silver-receiving vessel, and certain of said frames having diagonally disposed brace members lying substantially in the vertical plane



of the respective frame, and extending between said circumferential and central vertical elements, and a plurality of circular members of large and small diameters lying in spaced planes connecting said peripherally disposed elements and said centrally disposed elements, respectively.

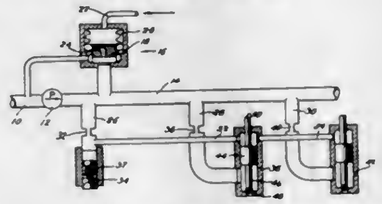
2,638,911
PNEUMATICALLY OPERATED CONTROL SYSTEM
Augustus W. Griswold, Rochester, N. Y., and Nathaniel B. Nichols, St. Paul, Minn., assignors to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application December 1, 1950, Serial No. 198,696
4 Claims. (Cl. 137—84)



1. In a system for maintaining a variable condition at a given value, means for sensing the value of the condition, a primary unit portion comprising casing walls and parallel diaphragms functioning therewith to define primary, secondary and tertiary chambers, said primary chamber and said tertiary chamber acting in opposition to one another, an element connecting said diaphragms to partake of the resultant movement thereof, means for applying to the primary chamber fluid under pressure corresponding to the value of the variable condition, means for supplying fluid at a reference pressure to the secondary chamber, a source of fluid under pressure, an output pipe, valve means governed by the resultant movement of said element for controlling the pressure of signal fluid supplied from said source to said output pipe, means for supplying fluid to said tertiary chamber at a pressure related to the pressure of the signal fluid in said output pipe and at a rate proportional to the rate of change of the pressure in said output pipe, a secondary unit portion comprising casing walls and a group of parallel diaphragms

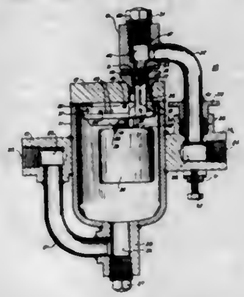
defining therewith a signal pressure chamber, a balancing pressure chamber, a reset chamber, certain of said last named group of chambers acting in opposition to one another, a member connecting said diaphragms to partake of the resultant movement thereof, said signal chamber being responsive to the pressure of the signal fluid in said output pipe, a control pipe, a primary source of fluid under pressure, means including valve mechanism governed by said member for controlling the pressure of operating fluid supplied from said primary source to said control pipe, means for supplying said operating pressure fluid to said balancing chamber, a secondary source of fluid under pressure, means responsive to the operating fluid at the controlled pressure for controlling the pressure of the fluid from said secondary source, means including a pressure proportioning network comprising a pair of restrictions connected in multiple, at least one of which is adjustable and through which restrictions the operating pressure fluid and controlled pressure fluid from said secondary source are jointly supplied to said reset chamber whereby the pressure of the fluid in the reset chamber is proportional both to the pressure of the operating fluid and to the controlled pressure of the secondary source, the proportionality factors being dependent on the ratio of the resistance values of said restrictions.

2,638,912
FLUID DISTRIBUTING APPARATUS
Leighton Lee II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Original application November 21, 1947, Serial No. 787,415, now Patent No. 2,601,849, dated July 1, 1952. Divided and this application September 21, 1949, Serial No. 117,001
8 Claims. (Cl. 137—118)



1. Apparatus for distributing fluid from a common source to a plurality of discharge points, comprising a plurality of branch conduits, each leading from said source to one of said points, a metering restriction in each of said conduits, a valve in each of said conduits downstream from its associated restriction, a spring biasing the valve in one of said conduits toward closed position, said spring biased valve being subject to the pressure of the fluid in its associated conduit acting directly thereon in an opening direction, said spring and valve being effective to maintain said pressure substantially constant, operating means for each of the valves in the other of said conduits including, for each valve, a pair of expansible chambers separated by a movable wall, a connection between said wall and its associated valve, a fluid conduit connecting one of said chambers to its associated branch conduit on the downstream side of the restriction therein, and a fluid conduit connecting the other of said chambers to said one conduit on the downstream side of the restriction therein, so that said other valves maintain the pressure drops across their associated restrictions equal to the pressure drop across the restriction in said one conduit.

2,638,913
IN-LINE STEAM TRAP
James W. Kaye, Montclair, N. J., assignor to Kaye & MacDonald, Inc., West Orange, N. J., a corporation of New Jersey
Application February 20, 1948, Serial No. 9,724
6 Claims. (Cl. 137—185)

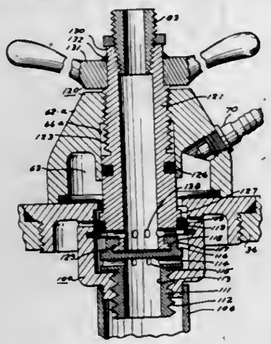


1. An in-line steam trap comprising a main casing, inlet and outlet blocks on opposite sides of said casing, each of said blocks having a port for connection to a pipe line having fluid flow therein, means for connecting said port in said inlet block to the interior of said casing, a head for said casing having an opening therein, a valve holder positioned within said opening and extending above it, a valve seat having a port therein and being positioned above said valve holder, a valve carried by the valve holder and adapted by an upward movement to close the port in the valve seat, a float within said casing, lever mechanism between the float and valve for operating said valve, a cap positioned above said valve seat and fastened to said casing head thereby holding said seat in position, said cap having a chamber therein having an inlet port adjacent said valve seat and an outlet port, means for connecting said outlet port in said cap to said port in said outlet block, said last-mentioned means comprising a tube outside of both said main casing and said head and which is readily removable from said outlet block, and a stuffing box surrounding a portion of said last-mentioned means in said outlet block.

2,638,914
TAP AND COUPLING FOR BARRELS
George Donald Flaith and Joseph E. Smith, Jr., Philadelphia, Pa.
Application June 23, 1948, Serial No. 34,728
15 Claims. (Cl. 137—212)

1. In a closure-and-tapping mechanism for barrels or the like; a bung constructed and arranged for detachable connection within the bung-opening of the barrel, said bung including a bung-body having a socket formed in its upper edge and having a downwardly-protruding chamber communicating with said socket, upper and lower annular inwardly-protruding valve-seats disposed within said chamber, an air-inlet opening extending through said bung-body and providing communication between the upper end of the barrel and that portion of said chamber intermediate the two valve-seats, a liquid-outlet passageway communicating with that portion of

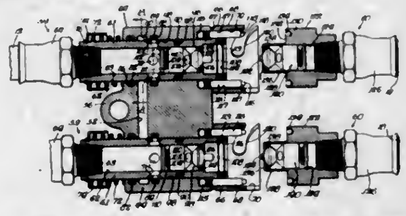
the chamber below the lower valve-seat, an O-ring disposed within said chamber intermediate said valve-seats, a valve-member screw-threadedly mounted within said chamber and having an annular outwardly-protruding shoulder constructed and arranged to contact the underside of said O-ring; and a bung-operating connector constructed and arranged for quick-attachable and -detachable fluid-tight connection to said bung, said bung-operating connector including a body portion having an air-passageway formed therein and having an annular flange provided with a peripheral sealing gasket constructed and arranged to provide a fluid-tight seal with said bung, said bung-operating connector also including an operating-member screw-threadedly adjustable relative to said body portion, said operating-member being provided with an elongated stem having an axial passageway formed therein and having connecting means at its lowermost end for detachable engagement with said valve-member, whereby operation of said



operating-member will cause opening or closing movement of said valve-member, the screw-threads of said operating member and said valve-member being of different pitch whereby operation of said operating-member will result in relative movement of said valve-member and said body portion so as to clamp said body portion firmly against said bung simultaneously with the opening movement of said valve-member, said stem having an annular outwardly-protruding shoulder formed somewhat above its lower end and constructed and arranged to contact the upper edge of said O-ring, downward movement of said stem causing said O-ring to be moved downward from the upper valve-seat and to be compressed against the lower valve-seat by the stem shoulder thereby establishing communication between the air-inlet opening of said bung and the air-passageway of said housing and simultaneously establishing communication between the liquid-outlet passageway and the axial stem passageway.

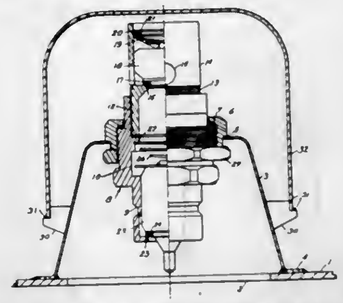
2,638,915
FLUID COUPLING
Wallace F. Mitchell, Chicago, Ill., assignor to MBG Corporation, Chicago, Ill., a corporation of Illinois
Application December 13, 1950, Serial No. 200,659
8 Claims. (Cl. 137—235)

1. A twin coupling unit for connecting the adjacent ends of two pairs of fluid conduit sections to establish two fluid lines, said unit comprising a twin coupling section and a pair of single coupling sections cooperable therewith, each single coupling section having a passage therethrough, said twin coupling section including a block portion having a pair of bores formed therein and a passage establishing communication between the bores, a tubular member slidably disposed in each of said bores and having a coupling head designed for detachable coupling engagement with one of said single coupling sections, a valve port in each of said tubular members and mov-



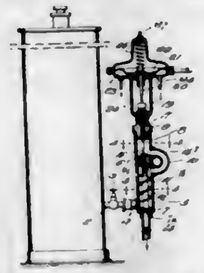
able with the member from a first position wherein the valve port is in communication with said passage to a second position wherein it is out of communication with said passage, means normally maintaining each tubular member in said first position, means for detachably coupling each single coupling section with a respective tubular member, and means operable upon coupling of each single coupling section with a respective tubular member for moving the latter to said second position.

2,638,916
FUELING DEVICE
Albert T. Scheiwer, Erie, Pa.
Application March 29, 1947, Serial No. 738,042
4 Claims. (Cl. 137—235)



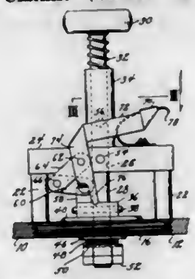
3. A fueling device for fueling a tank having an aperture in the underside thereof comprising a first inverted cup shaped member supported in said tank and surrounding said aperture, a second inverted cup shaped member supported in said tank above and in spaced relation to said first cup shaped member, said second cup shaped member having a comparatively long skirt whereby air is trapped in the upper inner side thereof, a fuel line extending through said first cup shaped member and into the upper inner portion of said second inverted cup shaped member, a coupling member attached to said fuel line adapted to be coupled with a mated coupling member externally of said tank, and a check valve in said coupling member movable longitudinally thereof upon connection of said coupling member with a mated coupling member externally of said tank.

2,638,917
REDUCTION CHOKE FOR OIL AND GAS WELL SYSTEMS
Louis C. Clair, Bernice, La.
Application September 6, 1950, Serial No. 183,313
7 Claims. (Cl. 137—340)



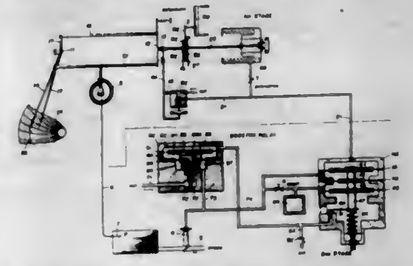
1. A reduction choke for oil and gas well systems comprising a tubular expansion chamber, a cylindrical screw-threaded header on one end thereof, a coupling member on the other end thereof and extending radially therefrom, a spiral baffle formed on the exterior of said chamber between said header and said coupling member, a cylindrical warming chamber, a choke chamber, a tubular member interconnecting said chambers, said cylindrical warming chamber being screw-threaded to engage said screw-threaded header, both said warming chamber and said choke chamber being interconnected by said coupling member, a cylindrical header carried by the end of said choke chamber and an adjustable valve member carried by said last mentioned header and adjustable therein for controlling said tubular expansion chamber.

2,638,918
QUICK CLOSING VALVE
George W. Perry, Port Clinton, Ohio
Application June 11, 1949, Serial No. 98,525
8 Claims. (Cl. 137—410)



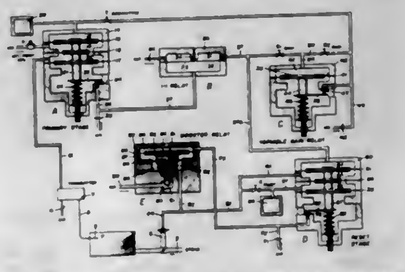
1. A valve for the opening into a drain comprising a ring having an orifice therethrough, said ring providing a valve seat about the orifice on the drain side thereof, a frame on the opposite side of said ring providing a bridge across the orifice, a valve stem reciprocatively mounted in said bridge, a gasket freely mounted by said stem adjacent one end thereof for cooperating with said valve seat, retaining means for said gasket fixed to the stem adjacent said gasket, an operating head at the other end of said stem, a spring coacting between said stem and bridge normally urging said gasket to engage said seat, a toggle-joint connection between said retaining means and frame operative to lock said gasket away from said seat, and means to initiate collapse of the toggle from its locking position.

2,638,919
APPARATUS FOR CONTROLLING A PROCESS
Ralph E. Clarridge, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application January 10, 1951, Serial No. 205,262
5 Claims. (Cl. 137—492)



1. In a system for maintaining a variable condition at a predetermined value, means for sensing the value of the variable condition, means translating the sensed value into a pneumatic signal proportional to the sensed value, a primary unit operated in response to a signal change for delivering elastic fluid under pressure proportional to the magnitude of the signal change and to the rate of change of the signal, a secondary unit including automatic reset mechanism operated responsive to the delivered pressure for supplying elastic fluid under pressure proportional solely to the change in delivered pressure and to the integral with respect to time of said change in pressure of the delivered fluid and responsive to a stabilizing pressure equal to that of the final pressure, and means responsive to the supplied fluid for restoring said condition to said predetermined value.

2,638,920
PNEUMATICALLY OPERATED CONTROL SYSTEM
Elliot H. Woodhull, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application January 13, 1951, Serial No. 205,905
10 Claims. (Cl. 137—492)



10. In a fluid actuated system, a selectively adjustable gain relay having an input pipe to which a fluid under modulated pressure is supplied, and an output pipe, an auxiliary source of fluid under selectively adjustable predetermined pressure,

said relay comprising a member responsive to fluid under pressure supplied through an input conduit, a valve operated by said member to vary the pressure of the fluid supplied to said output pipe from said auxiliary source, a connecting conduit communicating with said input pipe and with said output pipe, and two restrictions connected in series in said connecting conduit, at least one of said restrictions being selectively adjustable, said input conduit communicating with said connection conduit at a point between said restrictions whereby the pressure differential between the pressures in the input pipe and in the output pipe can be amplified or attenuated at will with respect to the change in pressure in the input pipe.

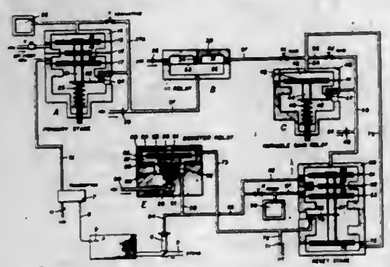
2,638,921

CONTROL SYSTEM

William I. Caldwell and Elliot H. Woodhull, Rochester, N. Y., assignors to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application January 13, 1951, Serial No. 205,906

8 Claims. (Cl. 137—492)



1. In a system for maintaining a variable condition at a predetermined value, means for sensing changes in the value of the variable, a primary stage operated in response to a sensed change for delivering fluid under controlled pressure corresponding to the sensed change, a reset stage, a variable gain relay stage for coupling said reset stage to said primary stage, a source of fluid under a selectively adjustable predetermined pressure, said variable gain relay stage including a relay for adjustably controlling the pressure of the fluid applied from said source to said reset stage for controlling the action thereof, said relay stage including an adjustable pressure proportioning net-work for supplying operating fluid under pressure to said relay jointly and adjustably from said applied fluid and from said delivered fluid in accordance with a selected ratio whereby the change of pressure of said applied fluid from the relay stage can be amplified or attenuated at will with respect to the delivered fluid pressure, and mechanism responsive to the delivered fluid for restoring said condition to substantially said predetermined value.

2,638,922

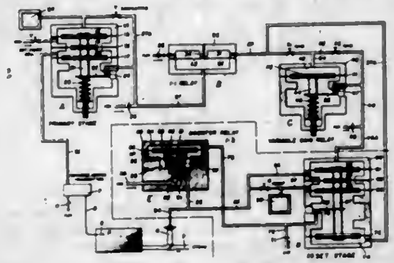
PNEUMATICALLY OPERATED CONTROL SYSTEM

William I. Caldwell, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application June 9, 1951, Serial No. 230,831

8 Claims. (Cl. 137—492)

5. In a fluid actuated system, a selectively adjustable gain relay having an input pipe to which a fluid under modulated pressure is supplied, and an output pipe, an auxiliary source of fluid under selectively adjustable predetermined pressure in communication with said output pipe, said relay comprising a member responsive to fluid under pressure supplied through an input conduit, a valve in communication with said output pipe operated by said member to vary the pressure of the fluid supplied to said output pipe from said auxiliary source, a connecting conduit communicating with said input pipe and with said output pipe, two restrictions connected in series in said



connecting conduit, at least one of said restrictions being selectively adjustable, said input conduit communicating with said connection conduit at a point between said restrictions whereby the pressure differential between the pressures in the input pipe and in the output pipe can be amplified or attenuated at will with respect to the change in pressure in the input pipe, and a differential pressure responsive device having pressure chambers acting in opposition to each other, said chambers respectively communicating with said input pipe and with said output pipe.

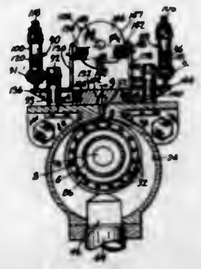
2,638,923

PILOT CONTROLLED REVERSING VALVE MECHANISM

Wm W. Paget, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 25, 1948, Serial No. 35,092

4 Claims. (Cl. 137—622)



1. A pilot valve device comprising a base, a first fluid passage provided in the base, an external connection to said first passage, a source of fluid under pressure connected to said first passage, a second fluid passage provided in the base, an external connection to said second passage, first conduit means connected with said first passage external connection and with said second passage external connection, a third fluid passage provided in the base, an external connection to said third passage, second conduit means connected with said first passage external connection and with said third passage external connection, first and second stop valves in the first and second conduit means respectively and mounted on the base in spaced apart relation, third conduit means connected with said third passage external connection and with the atmosphere, fourth conduit means connected with said second passage external connection and with the atmosphere, third and fourth stop valves in the third and fourth conduit means respectively and mounted on the base in spaced apart relation with respect to each other and adjacent the first and second stop valves respectively, each said valve having yielding means urging it closed and being movable to open position, means to open the first and third valves simultaneously, other means to open the second and fourth valves simultaneously, a cam positioned to actuate the two last-mentioned means, and a source of power connected to operate the cam.

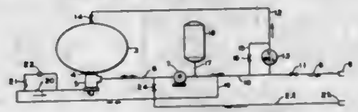
2,638,924

AUTOMATIC TANK VALVE

Theodore A. St. Clair, South Euclid, Ohio, assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 28, 1949, Serial No. 129,741

14 Claims. (Cl. 137—641)



1. A quick-closing valve comprising in combination a valve body having a chamber, a main inlet and outlet to said chamber, an opening in said chamber opposite said inlet, a valve normally closing said main inlet, said valve body having an easily frangible section adjacent said valve, a spring biasing said valve to a closed position, a valve stem attached to said valve and extending into said chamber, a bonnet across said opening in said chamber, a flexible diaphragm disposed between said chamber and said bonnet thereby forming a wall of said chamber opposite said valve, a diaphragm stem attached at one end to said diaphragm and received at the other end in said valve stem extending in said chamber, a diaphragm stem guide plate extending across said chamber parallel and adjacent to said diaphragm, said guide plate having an opening therein adapted to fit loosely about said diaphragm stem and having a recess therein adapted to receive said diaphragm in a flexed position, said bonnet having a recess therein adapted to receive said diaphragm when flexed in a position away from said guide plate, said bonnet having an opening therethrough connecting to said recess in said bonnet, a manually operated push pin extending into said opening in said bonnet and adapted to be normally seated against a sealing means to thereby form a pressure chamber in a portion of said opening in said bonnet between said sealing means and said diaphragm, said push pin being adapted to be manually advanced to move said diaphragm and thereby cause said diaphragm stem and said valve stem to coact to open said valve and at the same time being adapted to then be in an unseated position with respect to said sealing means, a pressure inlet to said pressure chamber in said bonnet, a fluid passageway through said diaphragm connecting said pressure chamber on one side of said diaphragm with said recess in said diaphragm stem guide plate and a shield rigidly attached to said diaphragm stem adjacent to side of said valve plate internal to said chamber in said valve body and adapted to form a fluid passageway connecting said opening in said diaphragm stem guide plate to said chamber of said valve body.

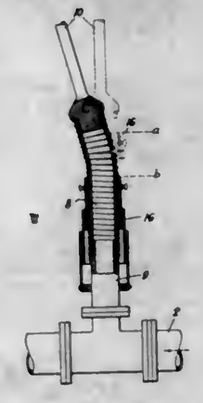
2,638,925

HELICAL SPRING VALVE

Thomas P. Monahan, Salt Lake City, Utah, assignor to Utah Oil Refining Company, Salt Lake City, Utah, a corporation of Utah

Application March 23, 1949, Serial No. 82,943

2 Claims. (Cl. 137—655)



1. A combustion control apparatus comprising a meter having a movable member responsive to changes in pressure, a pressure conduit, a diaphragm valve at one end of said pressure conduit the diaphragm of which is responsive to changes in fluid pressure within said conduit, a helical spring with one end firmly fastened in substantially air tight fluid communication with said conduit, the said spring being tightly wound and of such strength that the tightly wound coils thereof will bear against each other and consequently prevent leakage of fluid therebetween, a sleeve of adjustable length surrounding a portion of the said helical spring and fixedly attached at the said one end at which the said spring is fastened, and a closure at the opposite, unfastened end of said spring, the said closure forming a rod extending outwardly along the axis of said spring, the outwardly extending portion of said rod bearing laterally against the said movable member so that when the member moves in response to changes in pressure the outwardly extending portion of the rod will be moved laterally and will bend the said spring by lever action and will hold the spring at such bent position as dictated by the position of the said movable member whereby fluid is released from the conduit.

2,638,926

VALVE ACTUATING MECHANISM

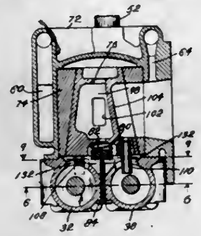
Walter Mizen, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 18, 1950, Serial No. 190,745

7 Claims. (Cl. 137—658)

1. A valve device including a valve having an axis of rotation and rotatable about said axis into at least two operating positions, actuating mech-

anism including a pair of valve operating pins associated with one end of the valve to apply a turning force having a zero linear resultant, a pair of actuating cylinders adjacent said end of the valve, a pair of alined pistons reciprocably



mounted in each cylinder, means to connect the pistons in a cylinder together, means providing spaced shoulders associated with the last-named means to engage a pin, and pressure fluid connections for the cylinders.

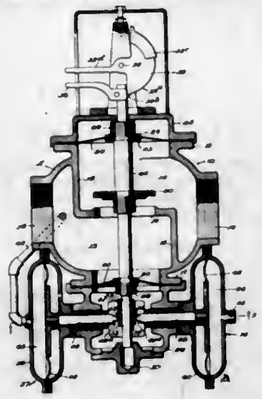
2,638,927
FLUID ACTUATED VALVE
Willard R. Walker, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application April 6, 1948, Serial No. 19,389
3 Claims. (Cl. 137—670)



1. In a valve, a one-piece valve body portion having inlet and outlet port recesses arranged side by side and an opposed cylindrical walled expansible chamber recess, the last-named recess being separated from the inlet and outlet recesses by an integral partition forming a head for the expansible chamber recess, said partition having ports connecting said chamber to each of said inlet and outlet port recesses, and providing a flat valve seat upon the expansible chamber recess side of said partition, a flat valve member in the form of a piston movable in said expansible chamber recess and having a valve pad on one end adapted to engage said seat and seal both inlet and outlet ports, a port in said valve member and pad aligned with an inlet port in said seat, means forming a closure for said expansible chamber, and a valve controlled bypass interconnecting the outlet port recess with the expansible chamber recess at a point behind said member.

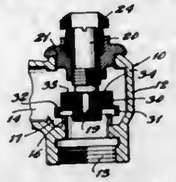
2,638,928
AUTOMATIC VALVE CONTROL MEANS RESPONSIVE TO FAILURE OF EITHER OF TWO SOURCES OF FLUID PRESSURE
Albert Stadler, Rockford, Ill., assignor to Eclipse Fuel Engineering Co., Rockford, Ill., a corporation of Illinois
Application September 27, 1947, Serial No. 776,533
6 Claims. (Cl. 137—698)

1. In combination, two oppositely positioned spaced apart latch bolts mounted to move to and from one another, each having an inner latching position and an outer retracted position, and an element disposed between the two latch bolts and mounted so that it is movable bodily back and forth in a given path at right angles to the latch bolts and also rectilinearly back and forth in a plane that is normal to the path, said element being adapted to be latched against movement in said path by said latch bolts conjointly, each of said latch bolts being operative when in latching position to hold said element in a position wherein it is latchingly engageable by the other latch bolt provided the last-mentioned latch



bolt is also in latching position, each of said latch bolts being operative when the other is retracted, but not otherwise, to move said element rectilinearly in said plane to a position wherein it is not latchingly engageable by either latch bolt, the arrangement being such that a retraction of either latch bolt will unlatch said element.

2,638,929
SELF-THROTTLING VALVE
John J. Delany and Edwin C. Baisel, New York, N. Y., assignors to Delany Realty Corporation, New York, N. Y., a corporation of New York
Application June 4, 1949, Serial No. 97,256
2 Claims. (Cl. 137—712)



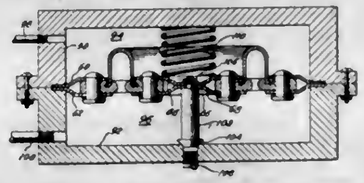
1. An automatic throttling valve including a casing having a chamber therein and inlet and outlet openings and a peripheral wall surrounding the inlet opening and extending into and terminating in said chamber, a valve element carried by said casing and having an inner end adapted to be disposed in narrowly spaced relation to the inner end of said peripheral wall to provide a narrow passageway therebetween, said valve element having a flexible resilient skirt extending from said inner end into surrounding spaced relation to the end of said peripheral wall, and said peripheral skirt flexing outwardly by the pressure of the flow of the liquid thereagainst and gradually returning to unflexed surrounding relation with said peripheral wall with the reduction of flow of the liquid through the valve to thereby minimize noise with the reduction of flow.

2,638,930
DIAPHRAGM
John M. Barr, West Hartford, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application October 25, 1946, Serial No. 705,587
6 Claims. (Cl. 137—793)



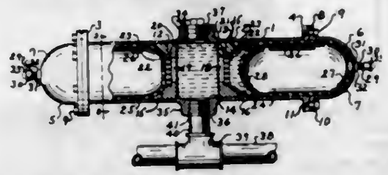
1. A differential pressure responsive diaphragm, comprising a flexible annular member of seamless woven fabric having an annular convolution near its mid-portion with a substantial portion of the threads of said fabric extending radially, and the remaining threads extending circumferentially, of said convolution.

2,638,931
DIAPHRAGM
John M. Barr, West Hartford, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application December 12, 1946, Serial No. 715,786
13 Claims. (Cl. 137—793)



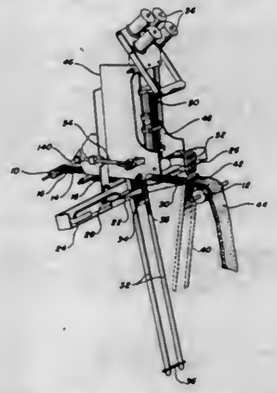
1. A differential fluid pressure responsive diaphragm comprising a rigid annular member, a rigid central disc member having a diameter smaller than the inner diameter of said annular member, a thin flexible annular, element connecting said members, said element having a convolution with straight, tubular sidewalls terminating in outwardly extending flanges, and means connecting said flanges to said members in substantially parallel relation thereto, so that said element is stressed only in tension and not in shear by the application of a differential fluid pressure to said diaphragm.

2,638,932
PRESSURE EQUALIZER
Emmett Lee Alexander, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application April 10, 1948, Serial No. 20,265
3 Claims. Cl. 138—30)



1. A surge equalizer for a flow duct containing liquid under pulsating flow through a widely variable pressure range including a casing having separate pressure chambers and a pressure transmission passage connecting the flow duct with each pressure chamber, grids separating the pressure chambers from said passage, and a deformable gas filled bladder in each chamber and having portions normally seated on said grids and both of said bladders being simultaneously subject to the same pressures in the flow duct, one of said bladders containing a pressure corresponding to the lower portion of the pressure range and the other containing a pressure corresponding with the upper portion of the pressure range whereby the member having the lower pressure responds to the lower pressure in said flow duct and the member having the higher pressure responds to the higher pressure in equalizing pulsations in said pressure flow.

2,638,933
METHOD AND APPARATUS FOR PRODUCING PILED FABRICS
Parker H. Stortz, Glendale, Calif.
Application June 17, 1950, Serial No. 168,795
39 Claims. (Cl. 139—5)

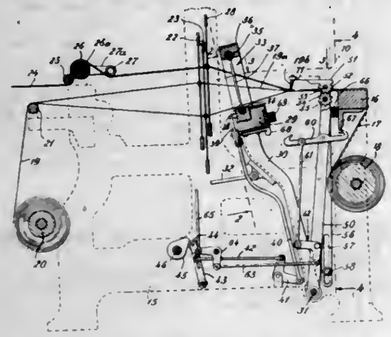


1. A process for producing tufted fabrics which comprises establishing a warp sheet consisting of a plurality of parallel warp ends, passing the leading tuft of a pile filament through the warp sheet, securing the leading tuft thus passed, subsequently passing the trailing tuft through said warp sheet, securing the thus passed trailing tuft and forming a knot with said pile filament secured to at least two of said warp ends by passing the secured leading and trailing tufts back through said warp sheet.

2,638,934
PILE FABRIC LOOM
Samuel P. Parker, La Grange, Ga., assignor to Callaway Mills Company, La Grange, Ga., a corporation of Georgia
Application March 23, 1950, Serial No. 151,370
8 Claims. (Cl. 139—38)

1. In a loom, having pattern mechanism the combination of separate means for supplying pile and ground warp yarns, means for forming the pile and ground warp yarns into sheds, said means raising the pile warp yarns higher than the ground warp yarns in the upper line in the shed, means for inserting a weft yarn in each shed, a lay carrying a reed and mounted to swing about an axis to cause the reed to beat up the inserted weft yarns, the reed being mounted on

the lay for endwise movement transversely of the lay, a pair of arms mounted to swing about the same axis as the lay, a bar mounted on the arms and carrying a plurality of hooks extending warpwise, means for connecting the bar to the lay to move rearwardly therewith to pass the



hooks between the pile warp yarns, the lay returning the bar to its initial position, means controlled by the pattern mechanism for rendering the connecting means effective, and means for shifting the reed endwise, when the hooks are between the pile yarns, to cause the pile warp yarns to be caught by the hooks.

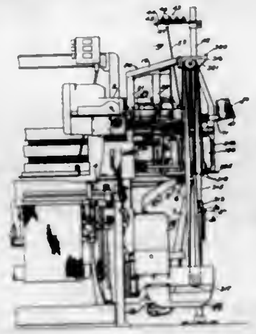
2,638,935
APPARATUS FOR PRODUCING WOVEN FABRICS
Parker H. Stortz, Glendale, Calif.
Application February 20, 1951, Serial No. 211,916
19 Claims. (Cl. 139—55)



1. A shedding apparatus for weaving apparatus which comprises a primary heddle actuating shaft and a secondary heddle actuating shaft disposed transverse to the warp ends and spaced apart from the plane of the warp in the weaving apparatus, a plurality of primary heddle rods attached at one end to said primary heddle shaft, a plurality of secondary heddle rods attached at one end to said secondary heddle shaft, said heddle rods being provided at their other ends with an eye through each of which an individual warp end passes, and means for rotating said primary and secondary heddle shafts through an arc forming a shed in the warp.

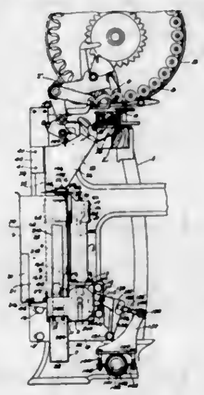
2,638,936
METHOD AND MEANS FOR AUTOMATICALLY WINDING FILLING BOBBINS IN A LOOM AND SUPPLYING THEM TO THE SHUTTLE THEREOF
William V. Goodhue and Robert E. Morton, Warwick, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application May 3, 1950, Serial No. 159,814
32 Claims. (Cl. 139—224)

1. In combination, means for winding filling-bobbins and supplying them to the shuttle of a loom embodying filling-changing mechanism, means for donning empty bobbins on said winding means, means for doffing wound bobbins from the winding means and furnishing them to the filling-changing mechanism of the loom, means



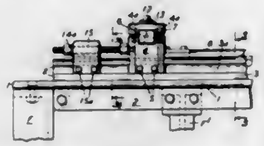
for receiving spent bobbins ejected from the loom-shuttle by the filling-changing mechanism and stripping the residue of yarn therefrom, and means for conveying the stripped or denuded bobbins back to the winding means for donning them in operative connection therewith.

2,638,937
BOBBIN STRIPPER
William V. Goodhue and Robert E. Morton, Warwick, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application August 25, 1949, Serial No. 112,362
32 Claims. (Cl. 139—262)



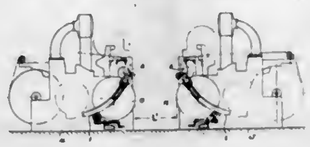
1. For use with a loom having filling-changing mechanism for supplying wound bobbins to the shuttle and ejecting spent bobbins therefrom, a bobbin-stripper having means for receiving a spent bobbin, means engageable with the bobbin to fixedly hold it for drawing off the yarn remaining on said bobbin, and means for ejecting the denuded bobbin from the stripper for transfer to another location.

2,638,938
LOOM TEMPLE
Thomas Hindle, Blackburn, England
Application September 28, 1949, Serial No. 118,254
In Great Britain October 7, 1948
5 Claims. (Cl. 139—301)



1. Means for supporting a temple on the front rest of a weaving loom comprising a temple, a clamp stand, and a temple holder bar rectangular in cross section, the vertical faces being parallel, the under surface being horizontal and the top surface inclined rearwardly and the clamp stand being formed with a correspondingly shaped tapered slot through which the holder bar passes whereby when the holder bar is moved rearwardly through the tapered slot it will be held sufficiently tightly to withstand any normal force tending to displace it during the normal running of the loom; but should any abnormal force be applied to the temple, such as caused by a shuttle being trapped between the temple and the advancing reed, the holder bar will be instantly released and displaced in a forward direction.

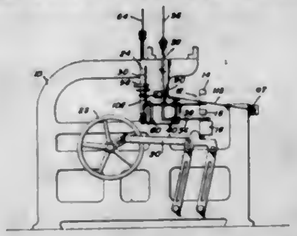
2,638,939
WEAVING LOOM CLOTH BEAM SUPPORT
Jaime Picanol, Zandberg, Zillebeke-lez-Ypres, Belgium
Application September 27, 1951, Serial No. 248,610
In Belgium April 27, 1951
5 Claims. (Cl. 139—308)



1. In a support for the cloth beam of a weaving loom, two curved racks placed at both sides of the cloth beam and supporting said cloth beam; means to guide longitudinally said racks, an axle substantially parallel to the cloth beam, placed under the latter, toothed pinions keyed to said axle and meshing with said racks; resilient means connected to said axle whereby said means become progressively stressed with the increasing weight of said cloth beam.

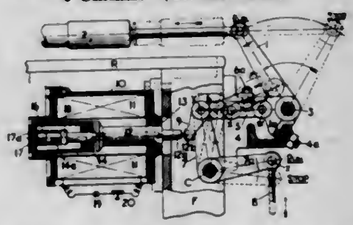
2,638,940
HEAD AND BATTEN STOP MOTION ATTACHMENT FOR LOOMS
J C. Case, Lynn, N. C.
Application November 27, 1951, Serial No. 258,432
8 Claims. (Cl. 139—336)

1. A stop motion for looms comprising a support, slides mounted on said support and adapted to engage the batten of a loom, guide means on said support limiting said slides to vertical movement and tilting movement in one direction from the vertical, means actuated by tilting motion of one of said slides for stopping operation of a loom,



means connecting said slides to the head motion of a loom for preventing tilting of said slides.

2,638,941
LOOM FOR WEAVING
Thomas Hindle, Blackburn, England
Application September 7, 1950, Serial No. 183,541
In Great Britain September 24, 1949
6 Claims. (Cl. 139—345)

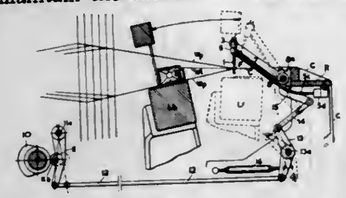


1. In a stop motion for a loom having a starting rod, and a member for actuation by said rod to control the starting and stopping of the loom, a device for holding said member in running position and trippable to release said member for movement to stopping position, a solenoid active when deenergized to trip said holding device, a circuit for energizing said solenoid, a switch for closing said circuit to render said solenoid inactive relatively to said holding device and thereby condition said member for movement into starting position and for holding said circuit closed and said solenoid energized for continued running of the loom, and a controlling switch in said circuit operative in response to an abnormal condition in a part of the loom to open said circuit and de-energize said solenoid and thereby condition said solenoid to trip said holding device.

2,638,942
WEFT DETECTOR AND STOP MOTION FOR WEAVING LOOMS
Thomas Hindle, Blackburn, England
Application September 21, 1950, Serial No. 185,990
In Great Britain September 25, 1949
5 Claims. (Cl. 139—370)

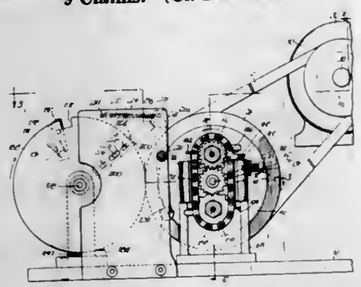
1. A weft detector motion for controlling the stop motion of a loom comprising the combination with an electric switch of a sensitive detector-pin, means for temporarily positioning said pin in close relationship to the selvage warp threads near the fell of the cloth during the passage of the shuttle across the slay, and a member between said pin and switch for controlling the switch, the movement of the shuttle causing the weft to loop around the detector pin and exert a pull thereon to move it into a posi-

tion to operate said member to close the switch and maintain the switch closed so long as the



pin remains in close relationship to the selvage warp threads and the weft continues to exert a pull on the pin.

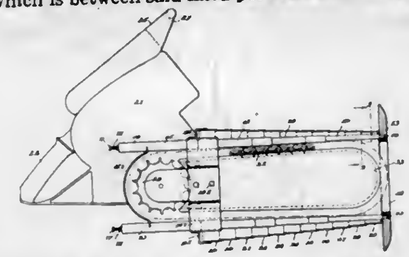
2,638,943
COIL WINDING DEVICE
Kenly C. Bugg, Fort Wayne, Ind., assignor, by mesne assignments, to Kendick Manufacturing Company, Inc., Fort Wayne, Ind., a corporation of Indiana, nominee
Application March 11, 1949, Serial No. 80,904
9 Claims. (Cl. 140—92.1)



8. A winding head for a coil winding machine, said head comprising a head block provided with fastening means for releasably securing said head to the winding machine, said head block having a rotatable driven shaft journalled therein and provided at one end thereof with coupling means whereby said driven shaft may be driven, said head block having die means thereon, winding guiding means located on opposite sides of the head block and die means and rotatable in opposite directions by said driven shaft, and a needle driven by said driven shaft in a predetermined manner with respect to said wire winding guiding means for leading wire to said die means.

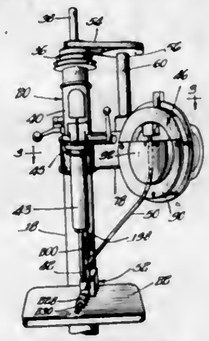
2,638,944
CHAIN SAW GUARD
Arnold Wolesiagie, Geneseo, N. Y.
Application February 7, 1951, Serial No. 209,716
10 Claims. (Cl. 143—32)

5. A guard for chain saws of the type including a fixed part and a toothed chain extending longitudinally in upper and lower reaches forwardly from the general vicinity of said fixed part, said guard comprising a bucking bar extending generally transverse to the longitudinal directions of said upper and lower reaches of said chain, means for supporting said bucking bar from said fixed part for movement relative thereto in said longitudinal directions and for holding said bucking bar against substantial movement transverse to said longitudinal directions, and collapsible and extensible guard means supported from and extending between said fixed part and said bucking bar for protecting that part of the chain which is between said fixed part and said bucking



bar from lateral contact with other objects, the bucking bar being directly connected to the fixed part independently of the guard means.

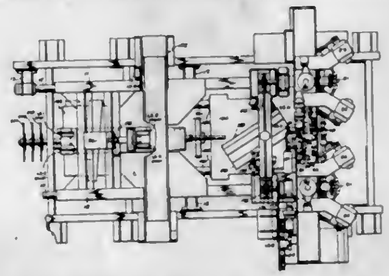
2,638,945
MACHINE FOR ORIENTING AND DRIVING LONGITUDINALLY ASYMMETRICAL HEADLESS FASTENERS
Leonard Edmond Austin, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application November 12, 1949, Serial No. 126,883
17 Claims. (Cl. 144—32)



1. In a mechanism for feeding longitudinally asymmetrical stud means, rotatable hopper means for receiving a mass of heterogeneously positioned longitudinally asymmetrical stud means, means for aligning said stud means in oriented and in unoriented positions, means for determining the longitudinal position of the aligned stud means according to their longitudinal asymmetry, means for engaging and retaining those of said stud means which are in one longitudinal position, means for rotating said hopper means at a continuous uniform rate, and means for operating said engaging means in timed relation to the rotation of said hopper means.

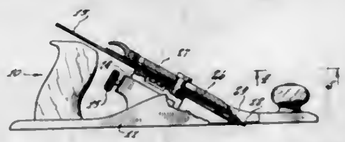
2,638,946
CHECKERING MACHINE
Frank H. McDonald, Ilion, and James J. Mackrell, Brooklyn, N. Y., Kosta P. Rado, Huntington, Conn., and John R. Brand, Claymont, Del., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application November 23, 1948, Serial No. 61,682
32 Claims. (Cl. 144—136)

1. Apparatus for cutting on a workpiece having a longitudinal axis a plurality of patterns, each pattern comprising a plurality of border cuts separated by a predetermined number of checker cuts, the cuts of one pattern being disposed at a predetermined positive angle to said axis and the cuts of a second pattern being disposed at a negative angle to said axis; said apparatus comprising a main carriage; a work-holding arbor rotatably held in said carriage; arbor rotating means; arbor indexing means; reversing means for said arbor rotating and indexing means; a tool frame; a plurality of tools including a checkering tool for each pattern and a bordering tool common to both patterns mount-



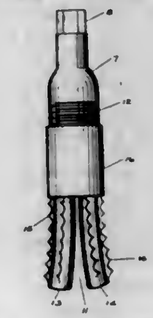
ed for movement on said tool frame and relative to said arbor; actuating and control devices for said main carriage, said arbor, said arbor rotating and indexing means, said tool frame and said tools for performing automatically and without interruption a series of sequences of operations comprising sequence A, an idle cycle followed by a border cut; sequence B, a predetermined number of checker cuts; the repetition of sequence A; the actuation of said reversing means; sequence C, a border cut followed by an idle cycle; and the repetition of sequences B and C in turn a predetermined number of times.

2,638,947
REMOVABLE CUTTER BLADE FOR CARPENTERS' PLANES
Paul Lausch, Richmond Hill, N. Y.
Application April 3, 1950, Serial No. 153,597
1 Claim. (Cl. 145—17)



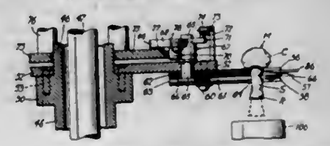
In a carpenter's plane having a transverse opening through the bottom thereof and having an inclined plate having a lower edge adapted to protrude through said opening, and further having means for releasably locking said plate therein, the improvement comprising a removable blade releasably and slidably mounted on the lower end of said plate, said plate having longitudinal slits therein extending through said lower edge a distance into the plate at opposite and equal angles with respect to the plane of the plate, said blade having flaps extending downward therefrom at angles and in positions complementary to said slits and registrable in said slits whereby upon sliding of said blade over said lower edge of the plate said flaps register in said slits.

2,638,948
INTERNAL REVERSE TAPER EXPANDING BIT REAMER
George Lee White, San Pablo, Calif.
Application December 22, 1949, Serial No. 134,376
1 Claim. (Cl. 145—114)



A device of the character described comprising a shank equipped with a solid upper end portion and a slotted lower end portion, said shank being threaded at the juncture of said portions with the threads extending over a part of each of said portions; the slot in the lower end defining a pair of sections which are provided with a series of external circumferentially spaced vertically extending rows of teeth capable of reaming out, upon a rotation of said device, a hole in a wooden tie to form a tapered hole, and an internally threaded sleeve threadedly engaging the external threads to prevent a distortion of the sections of said slotted lower end, and a cone shaped bit detachably mounted in said lower end and having a plurality of bottom teeth for engaging the tie.

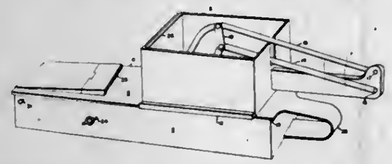
2,638,949
MUSHROOM TRIMMING MACHINE
Walter G. Blevins, Sr., and Richard A. Coleman, West Chester, and John Mills, Drexel Hill, Pa., assignors to Brandywine Mushroom Corporation, West Chester, Pa., a corporation of Delaware
Application November 30, 1951, Serial No. 259,212
6 Claims. (Cl. 146—81)



1. In a machine for trimming mushrooms, each consisting of a cap, a stem and a root part, a support, a substantially vertical rotary shaft carried by the support, a wheel secured to and rotatable with the shaft, said wheel comprising a plurality of substantially circular discs coaxial with the shaft and including a top disc, a bottom disc and a disc intermediate and spaced from the top and bottom discs, each disc having a plurality of angularly spaced peripheral openings that are aligned with corresponding openings in the other discs for receiving a like plurality of mushrooms arranged with their caps bearing against the upper surface of the top disc and their roots projecting beyond the lower surface of the bottom disc, resilient means for releasably engaging each

mushroom stem whereby to maintain the same in corresponding disc openings during a portion of each complete revolution of the wheel, first cutting means carried by the support and including a knife blade that extends into the space between the top and intermediate discs for severing the cap and a minor portion of the stem from the remainder of each mushroom during a first increment of said portion of each complete revolution of the wheel, elevating means responsive to rotation of the shaft for moving said remaidner of each mushroom upwardly with respect to the discs whereby the root part thereof projects a selected distance below the lower surface of the bottom disc during a second increment of said portion of each complete revolution of the wheel, and second cutting means carried by the support and including a knife spaced from the lower surface of the bottom disc for severing the root part of each mushroom from said remainder during a third increment of said portion of each complete revolution of the wheel.

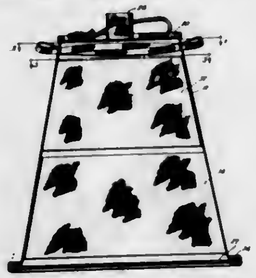
2,638,950
FOOD SLICING MACHINE
Herman G. Menssen, West Norwood, N. J.
Application May 31, 1949, Serial No. 96,314
1 Claim. (Cl. 146—168)



In a food slicing machine, a food receiving box, a pressure feed plate movable vertically within the box, the side edges of said pressure feed plate having a running clearance with the inner side walls of the food box, a plane surfaced table slidably supporting said box, guides on the edges of the table cooperating with guides on the lower side edges of the box, a shearing element fixed to the table and projecting upwardly from the table, a member attached to said box and extending rearwardly thereof and forming a handle support, two handle arms pivotally attached at vertically spaced pivots on the outer end of the handle support, a link of a length to maintain the arms parallel connecting pivotally the free ends of the arms, the pressure feed plate having a pair of longitudinally spaced pivots on its upper surface and a pair of links each pivotally connecting one of the pivots on the pressure plate with a pivot on one of the free ends of the arms.

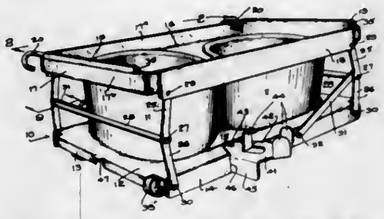
2,638,951
COLLAPSIBLE TANK AND STABILIZER MEANS
Franklin E. Smith, South Dartmouth, and Nathan H. Friedman, North Dighton, Mass.
Application December 18, 1950, Serial No. 201,412
1 Claim. (Cl. 150—0.5)

An improved collapsible tank structure comprising four side wall portions which correspond in shape to the sides of a truncated pyramid, adjacent edges of said side wall portions being secured, one to another, to form seams which provide four separated corners for the tank structure, top and bottom tank sections secured to the side wall portions, said side wall portions, when containing a fluid body, being adapted to occur in an inclined position, a fluid conduit member located in the said top section, a stabilizer sheet located at the top part of the tank structure, two opposite edges of said stabilizer sheet being secured internally of the tank structure along two opposite corners thereof in a position to resist laterally directed inertial forces of a fluid in the tank acting in one direction, and a second stabilizer sheet located cross-wise be-



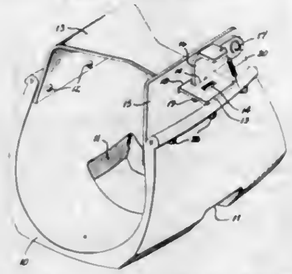
low the said first stabilizer sheet at the bottom part of the tank structure, two opposite edges of the said second sheet being secured internally along two opposite remaining corners of the tank structure in a position to cooperate with the first stabilizer sheet and resist laterally directed inertial forces of the fluid in the tank acting substantially at right angles to the plane of the said first sheet material.

2,638,952
COLLAPSIBLE SCRUB BUCKET
Doris K. Sanderson, Rochester, N. Y.
Application April 29, 1950, Serial No. 158,971
4 Claims. (Cl. 150—49)



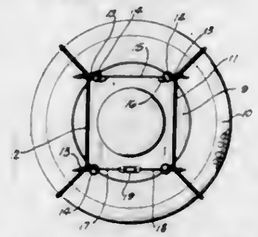
1. A collapsible unit of the character described comprising a pair of substantially coextensive plate members arranged in vertically spaced, substantially parallel relation, the upper one of said members having an aperture therein providing an annular ledge for suspension of a tub from said apertured plate member, an open-topped flexible tub operatively disposed between said members and adapted to be expanded to receive a liquid when said members are spread apart and to be collapsed between said members when the latter are brought together, said tub having a beaded top edge which overlies said annular ledge and is adapted to be quick-releasably locked to said ledge, and means interconnecting said plate members for shifting the same toward and away from each other to effect collapse and expansion of said flexible tub therebetween, said interconnecting means including at each opposite end of the unit a pair of toggle joints and a transversely extending rod interconnecting the paired joints for commonly actuating the same, said rods serving as opposed carrying handles for the unit when it is expanded for use.

2,638,953
ANTISKID DEVICE
Frank J. Mulholland, Newburgh, N. Y.
Application July 24, 1948, Serial No. 40,580
1 Claim. (Cl. 152—221)



An anti-skid device for use on an automobile wheel having a rim and a tire mounted thereon, comprising, in combination, an anti-skid casing formed as a curved strip of material having about the flexible characteristics of a pneumatic tire casing and adapted to fit closely about the transverse circumferential perimeter of the tire; a rigid bracket having a first portion rigidly secured to and overlapping said anti-skid casing at its inboard side and extending substantially in prolongation thereof toward the wheel axis, and another portion integrally connected to said first portion and angularly turned with respect thereto, extending substantially parallel to the axis of the wheel and adapted to be positioned radially inwardly of the rim and presenting an end thereof at the outboard side of the wheel; a rigid plate secured to and overlapping said anti-skid casing at its outboard side and extending substantially in prolongation thereof toward the wheel axis; an aperture in said plate adapted to receive the end of said bracket; a plurality of apertures in said bracket adjacent the end thereof; a latch carried by said plate and alternately engageable with one of said apertures in said bracket for detachably interconnecting said plate and said bracket; and spring means for urging said latch into engagement with one of said apertures in said bracket.

2,638,954
NONSKID ATTACHMENT
James D. Anderson, Detroit, Mich.
Application February 19, 1951, Serial No. 211,655
1 Claim. (Cl. 152—221)



A non-skid attachment for vehicle wheels of the class described adapted for mounting on a vehicle wheel having a tire, comprising a pair of endless loops of flexible cord, the material of each of said loops being less than twice the diameter of the vehicle wheel tire and positioned on the tire with an equal portion of each loop lying at opposite sides of the tire and a connecting rod at each side of the vehicle wheel connecting the oppositely disposed loops together at one side of the center of the wheel; and a connecting member at each side of the vehicle wheel connecting both of said loops together at the opposite side of the center of the wheel, one of said connecting members being adjustable into a position for stretching said loops into taut condition in direct embracing engagement with the periphery of the tire.

2,638,955
REPAIR PATCH FOR RUBBER ARTICLES
Willy Gruber, Munich, Germany
Application July 29, 1949, Serial No. 107,508
In France August 26, 1948
5 Claims. (Cl. 152—367)



1. A repair patch for rubber articles comprising a body layer of vulcanized rubber and a thin attaching layer of flexible unvulcanized rubber, said body layer having a flat bottom and said attaching layer being secured to said bottom, said body layer further having graduated thickness including a central portion of substantial thickness in relation to the thickness of the layer of unvulcanized rubber and a thin flexible perimetrical rim portion, the upper surface of said body layer tapering laterally outwardly from the central portion to the periphery to form the thin tapered rim, said thin layer of unvulcanized rubber having a substantially greater area than the area of the body layer so that the perimeter of the body layer is disposed inwardly of the perimeter of the attaching layer to provide a thin flexible marginal rim of substantial width and of unvulcanized rubber extending laterally outwardly of the tapered rim of the body layer so that the patch can effectively adhere to a rubber article to be repaired without knurling, wrinkling or loosening of the thin tapered rim of the body layer and with equalized tension between the body layer and the article to be repaired.

2,638,956
TIRE VALVE STEM PROTECTOR
John W. Nelson and Joel B. Nelson, Independence, Kans., assignors of one-third to Jack W. Ashcraft
Application February 3, 1950, Serial No. 142,114
1 Claim. (Cl. 152—428)



A valve stem protector for enclosing a portion of a valve stem projecting through an aperture in a rim mounting a pneumatic tire and inner tube for a vehicle wheel for shielding said valve stem from physical damage due to impact by foreign objects comprising, a ferrule having a

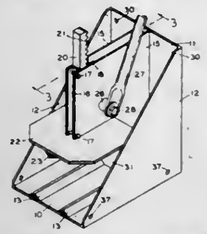
threaded shank adapted to extend through the aperture in the rim, said ferrule having an axial bore for sleeving the ferrule on the valve stem, said ferrule being split substantially on a diameter to form two pieces whereby said ferrule may be inserted in the aperture of the rim with the tire mounted thereon, flanges on each of the ferrule pieces adapted to engage the inner surface of the rim surrounding the aperture, a fastening device threadedly mounted on the threaded ferrule shank for rigidly securing the ferrule to the rim, a hollow cap having one end open for enclosing the projecting portion of the valve stem, and means for removably securing the hollow cap relative to the ferrule with the walls of the cap spaced from the valve stem to form a rigid housing for said valve stem whereby the force from any impact on the cap is all transmitted to the ferrule and rim and not to the valve stem which is movable through the ferrule independently of the protector.

2,638,957

CAN CRUSHING DEVICE

Carl G. Danielson, Rocky River, Ohio, assignor to Danco Metal Products, Inc., Westlake, Ohio, a corporation of Ohio

Application September 9, 1950, Serial No. 184,041
1 Claim. (Cl. 153—10.5)



A can crushing device, comprising a frame structure having a generally horizontal base plate and a generally vertical rear wall, a pair of generally vertical flanges carried by and extending forwardly from said rear wall in laterally spaced, generally parallel relation, a pair of generally vertical, oppositely extending channel members carried by said flanges in the space therebetween and spaced apart to provide a generally vertical passageway, a plunger in said passageway provided with rack teeth along a substantial portion of its length, a can crushing plate carried by said plunger at the lower end thereof, a pinion journaled in said flanges and disposed in the space therebetween for meshing engagement with the rack teeth of said plunger, one of said channel members being of reduced length to permit such meshing engagement, and a lever for rotating said pinion to thereby raise and lower the plunger and the can crushing plate carried thereby relative to the base plate of the frame structure.

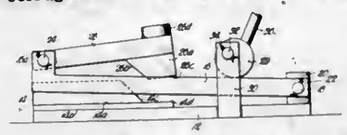
2,638,958

CORRUGATION CRIMPING DEVICE

Victor C. Norquist and Harl S. Day, Kansas City, Mo., assignors to Butler Manufacturing Company, Kansas City, Mo., a corporation of Missouri

Application February 15, 1952, Serial No. 271,692
8 Claims. (Cl. 153—16)

1. In a device of the character described, a mandrel adapted to be fitted into the concave side of a corrugation of a corrugated metal sheet, a member cooperating with said mandrel comprising a yoke aligned with said mandrel and having its legs disposed on opposite sides thereof, said yoke being movable vertically with respect to said mandrel to permit the placing of the corrugated sheet therebetween with a portion of said corrugation extending beyond the end of



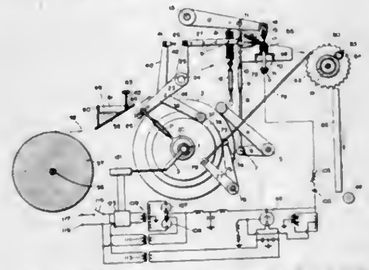
said mandrel, means for drawing said yoke and mandrel together thereby to clamp said sheet firmly on said mandrel, and a forming block normally positioned above and beyond one end of the mandrel and movable vertically relative thereto whereby any portion of said corrugation projecting past the end of said mandrel can be reduced in height under the impact of said forming block.

2,638,959

NONWOVEN SOFT-SURFACE FLOOR COVERING AND METHOD AND APPARATUS FOR PRODUCING THE SAME

Charles R. Johnson, Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn., a corporation of Delaware

Application August 18, 1951, Serial No. 242,515
18 Claims. (Cl. 154—1.1)



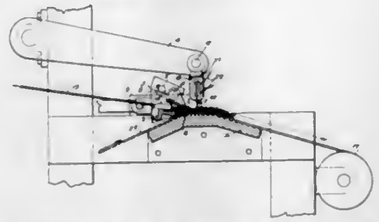
3. An apparatus for producing a floor covering having a soft-surface material securely adhered in transverse lines or rows to a backing sheet by an adhesive, which comprises means for coating the backing sheet with an adhesive, an anvil over which the coated sheet is fed and intermittently caused to dwell during the attaching of the surface material to said coated backing sheet, a pair of grippers to grip the surface material and feed it into position over the backing sheet when said sheet is on the anvil, an electrode and means to operate it to press bights of the surface material against the adhesive on said backing sheet while said backing sheet dwells on said anvil, a high frequency electric generator connected to the electrode and to the anvil to apply a high frequency field to the adhesive material between the bights of the surface material and the backing sheet, and means for feeding the backing sheet with its coat of adhesive material onto the anvil and below the electrode and for advancing the backing sheet with the affixed surface material thereon step by step by a distance equal to that between two rows of the attached surface material.

2,638,960

APPARATUS FOR PRODUCING A NONWOVEN SOFT-SURFACE FLOOR COVERING

Henry A. Reinhardt, Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn., a corporation of Delaware

Application December 18, 1952, Serial No. 326,710
3 Claims. (Cl. 154—1.1)



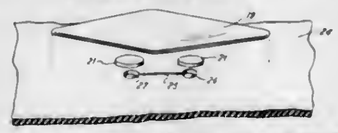
1. An apparatus for producing a floor covering having a soft-surface material securely adhered in transverse lines or rows to a backing sheet by an adhesive, which comprises means for coating the backing sheet with an adhesive, an anvil over which the coated sheet is fed and intermittently caused to dwell during the attaching of the surface material to said coated backing sheet, a pair of grippers to grip the surface material and feed it into position over the backing sheet when said sheet is on the anvil, means for pressing bights of the surface material against the adhesive on said backing sheet while said backing sheet dwells on said anvil, means for heating the adhesive material between the bottoms of the bights of the surface material and the backing sheet, and means for feeding the backing sheet with its coat of adhesive material onto the anvil and for advancing the backing sheet with the affixed surface material thereon by a distance equal to that between two rows of the attached surface material.

2,638,961

METHOD OF PATCHING AUTOMOBILE INNER TUBES

Luther M. Everett, Sr., Dallas, Tex., assignor to Better Monkey Grip Company, Dallas, Tex., a corporation of Texas

Application October 23, 1950, Serial No. 191,710
3 Claims. (Cl. 154—14)



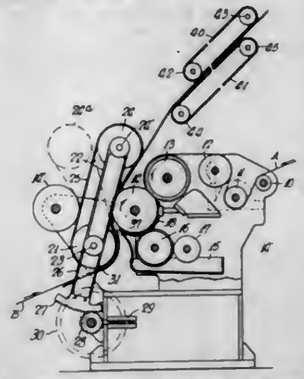
3. The method of effecting the closure of a rent in plastic material comprising the provision of a pair of integrally attached bodies of thermoplastic material of greatly dissimilar size under a continuous cover, the detachment of the smaller body from the larger body and from the cover, the placing of the smaller body immediately over the rent, the removal of the cover from the larger body so as to leave a clean exposed surface thereon, the placing of the larger body immediately over the smaller body with such surface in immediate contact with the last named body and the plastic material to be mended, and the heating of the three members so in contact until fusion is effected therebetween.

2,638,962

MACHINE FOR MAKING CORRUGATED PAPER

Charles D. Nitchie, Haddonfield, N. J., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey

Application February 24, 1951, Serial No. 212,659
9 Claims. (Cl. 154—31)



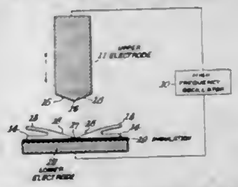
4. A machine for making single faced corrugated paper, including a pair of fluted rolls for corrugating a sheet, means for applying adhesive to the crowns of the corrugations in said sheet while the latter is in engagement with one of said fluted rolls, a pivoted frame having a pair of idler pulleys one being at the pivotal center of said frame, an endless belt supported by said pulleys, a third idler roll of substantially the same diameter as said last mentioned fluted roll and spaced therefrom to a distance less than the diameter of said idler rolls, whereby said belt is kept under substantially constant tension in different adjusted positions, and means for adjusting the position of said frame to press a facing sheet against the corrugated sheet along a desired portion of the periphery of one of said fluted rolls.

2,638,963

APPARATUS FOR DIELECTRIC FABRICATION

Edward R. Frederick and Paul R. Malmberg, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Army

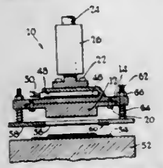
Application March 31, 1949, Serial No. 84,636
6 Claims. (Cl. 154—42)



1. In apparatus for fabricating thermoplastic dielectric material, two relatively movable electrodes, a source of high frequency voltage, means to apply said voltage across said electrodes, one of said electrodes having a flat surface provided with a heat resistant electrical insulating cover, the other of said electrodes having a substantially flat surface provided with a ridge thereon, means for moving said electrodes convergently into a position wherein said surfaces are substantially par-

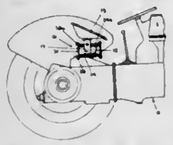
allel so that said ridge cuts and determines the thickness of said material contacted by said other electrode.

2,638,964
MACHINE FOR HEAT-SEALING THERMOPLASTIC MATERIALS
Ernest J. Andina, New York, N. Y., assignor to Amsco Packaging Machinery, Inc., Long Island City, N. Y., a corporation of New York
Application February 7, 1950, Serial No. 142,745
4 Claims. (Cl. 154—42)



1. Apparatus for heat-sealing thermoplastic pellicles, said apparatus comprising a sheet capable of maintaining its own form under the heat and pressure imposed thereon as an incident to heat-sealing, a frame engaging the edges of said sheet to support said sheet in flat condition, a sealing shoe, means continuously to heat said sealing shoe, means to mount said sealing shoe for movement into and out of engagement with one side of said flat sheet, means ot connect said shoe and frame and a spring biasing said shoe and frame apart.

2,638,965
TRACTOR SEAT MOUNT
Walter F. Woodin, Laurens, Iowa
Application November 29, 1950, Serial No. 198,123
5 Claims. (Cl. 155—9)



5. A seat attachment for a tractor including a seat carrying member having a horizontal center section and downwardly projected end sections, a horizontal tractor mounting member arranged below said center section and between said end sections, means movably supporting said seat carrying member from said mounting member including combination parallel link systems connected between said end sections and said mounting member to provide for the movement of said seat carrying member both longitudinally and transversely of said mounting member.

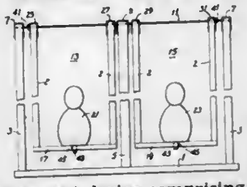
2,638,966
INFANT'S SWING SEAT ASSEMBLY
Robert F. Wardlaw, Anderson, S. C.
Application October 6, 1950, Serial No. 188,785
5 Claims. (Cl. 155—17)

1. A seat assembly comprising a frame having a base plate, a top bar and spaced-apart standards supporting said top bar from said base plate, brackets secured to said top bar and depending therefrom one near each of said standards, variable length struts pivotally connected at their upper ends one to each of said brackets and depending therefrom, each of said struts including an upper section pivotally connected at its upper end to the corresponding bracket for swinging movements about an axis substantially parallel to said top bar, a lower section disposed with its upper end overlapping the lower end of said upper section, and means connecting said upper and lower sections at their overlapping ends providing a limited freedom of relative lon-



gitudinal movement between said sections while restraining said sections against relative angular movement, springs connected at their upper ends to said top bar one near each of said brackets and depending from said top bar with their lower ends connected to the upper ends of the corresponding lower strut sections to resiliently resist downward movement of said lower sections, and a seat disposed between and secured to said lower sections at the lower ends of the latter.

2,638,967
AMUSEMENT DEVICE
Robert L. Morton, Jr., Clayton, and Frank W. Bubb, Webster Groves, Mo.
Application April 4, 1951, Serial No. 219,246
13 Claims. (Cl. 155—64)

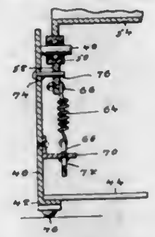


1. An amusement device comprising a support, coaxial bearings thereon, a freely oscillatory structure supported as a whole by said bearings, said structure comprising a resilient torsional member and pendulous swings having spaced torque-transmitting connections with the torsional member, the space between said torque-transmitting connections being sufficient to allow maximum displacement of said swings without exceeding the elastic limits of said torsional member, the motion of each swing being controlled from the other through torque transmitted by said torsional member, whereby energy exhibited by oscillations of the swings may, as the swings oscillate out of equal displacements, periodically interchange between a part of said structure containing one swing and a part thereof containing the other swing.

2,638,968
ROCKING CHAIR
Phillip A. Joncas, Hollywood, Calif.
Application November 18, 1949, Serial No. 128,069
1 Claim. (Cl. 155—77)

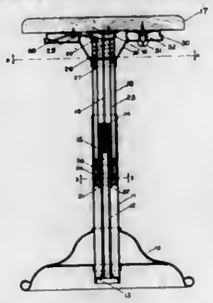
An exercising chair comprising a pair of spaced parallel vertically disposed side plates each having

their lower ends extending inwardly, horizontally disposed cross bars extending between said plates and secured thereto, a pair of pins extending inwardly from the upper portion of each of said plates, a chair seat including a pair of spaced parallel vertically disposed panels arranged inwardly of said plates, a ball bearing mounted in



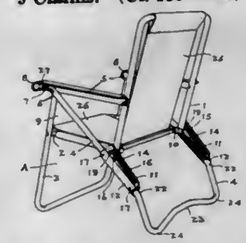
each of said panels and receiving one of said pins, there being an arcuate slot in each of said panels receiving the other of said pins, a bracket extending inwardly from each of said plates, coil springs extending between said brackets and panels, and means for adjusting the tension of said coil springs.

2,638,969
ADJUSTABLE STOOL
Angelo Restivo, Jamaica Estates, N. Y.
Application December 14, 1950, Serial No. 200,771
6 Claims. (Cl. 155—94)



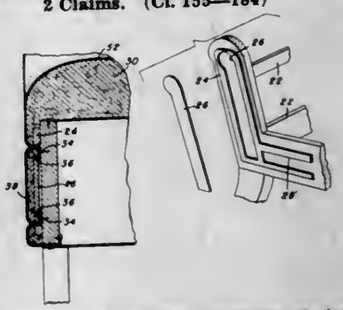
1. A device of the class described comprising a support, an upwardly extending tubular member secured at its lower end to said support, a second tubular member concentrically mounted within said first tubular member and secured thereto at its lower portion, said second tubular member having its opening at the upper end reduced in diameter, a third tubular member slidably mounted within said first tubular member, a stool seat secured to the upper end of said third tubular member, an annular housing secured to the lower end of said last named tubular member, a chamber having a conical wall structure contained at the lower portion of said housing, a fourth tubular member slidably engaging said second tubular member and extending from said conical chamber to a position adjacent said seat, said fourth tubular member having a flanged upper end portion, horizontally disposed bores mounted on said tubular member within said chamber, a plurality of ball bearings mounted in said bores engaging said conical wall and said second tubular member, a spring encircling said fourth tubular member and extending between said flanged end portion and a stop means mounted on the inside wall of said third tubular member, a rod secured at one end to said stool seat and slidably mounted in said second tubular member, said rod having an enlarged portion at its free end, and lever means pivotally mounted on the lower surface of said seat having its free end engaging said flanged end of said fourth tubular member.

2,638,970
TUBULAR CHAIR CONSTRUCTION
Blair Fowler Harber, Fort Erie, Ontario, Canada
Application March 24, 1950, Serial No. 151,625
9 Claims. (Cl. 155—139)



9. In a collapsible chair having pivotally connected back, seat, front and rear leg frames with said seat frame pivoted at the rear to the lower end of said back frame, a pair of guide members encircling portions of said rear leg frame intermediate the top and bottom thereof and at opposite sides of the chair, means forming an extension of the pivot connection of said back and seat frames non-removably and slidably engaged in said guide members and affording a pivotal sliding control connection tying the pivot of said back and seat frames to said rear leg frame and constraining the pivot of said back and seat frames to move in guided linear sliding motion along said rear leg frame while permitting free pivotal movement of said back and seat frames, said guide members including stop means to bar movement of the aforesaid connecting means along said rear leg frame under loading to maintain said back, seat and rear leg frames against relative movement with the chair in extended position.

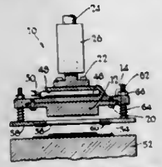
2,638,971
FURNITURE STRUCTURE, MARQUETRY WITH FABRIC
Jack Furman, San Antonio, Tex.
Application January 26, 1951, Serial No. 207,900
2 Claims. (Cl. 155—184)



1. A furniture structure comprising a frame, said frame including members having plane

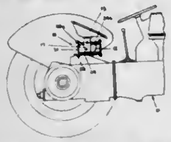
allel so that said ridge cuts and determines the thickness of said material contacted by said other electrode.

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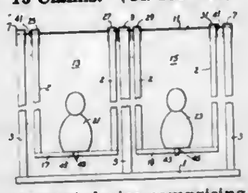
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gitudinal movement between said sections while restraining said sections against relative angular movement, springs connected at their upper ends to said top bar one near each of said brackets and depending from said top bar with their lower ends connected to the upper ends of the corresponding lower strut sections to resiliently resist downward movement of said lower sections, and a seat disposed between and secured to said lower sections at the lower ends of the latter.

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AMUSEMENT DEVICE
Robert L. Morton, Jr., Clayton, and Frank W. Bubb, Webster Groves, Mo.
Application April 4, 1951, Serial No. 216,246
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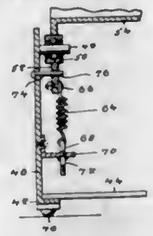


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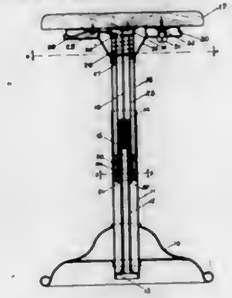
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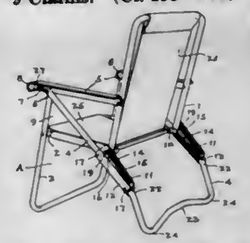
each of said panels and receiving one of said pins, there being an arcuate slot in each of said panels receiving the other of said pins, a bracket extending inwardly from each of said plates, coil springs extending between said brackets and panels, and means for adjusting the tension of said coil springs.

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ADJUSTABLE STOOL
Angelo Restivo, Jamaica Estates, N. Y.
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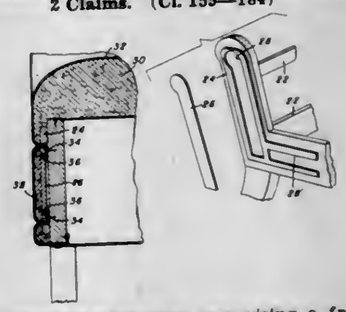
1. A device of the class described comprising a support, an upwardly extending tubular member secured at its lower end to said support, a second tubular member concentrically mounted within said first tubular member and secured thereto at its lower portion, said second tubular member having its opening at the upper end reduced in diameter, a third tubular member slidably mounted within said first tubular member, a stool seat secured to the upper end of said third tubular member, an annular housing secured to the lower end of said last named tubular member, a chamber having a conical wall structure contained at the lower portion of said housing, a fourth tubular member slidably engaging said second tubular member and extending from said conical chamber to a position adjacent said seat, said fourth tubular member having a flanged upper end portion, horizontally disposed bores mounted on said tubular member within said chamber, a plurality of ball bearings mounted in said bores engaging said conical wall and said second tubular member, a spring encircling said fourth tubular member and extending between said flanged end portion and a stop means mounted on the inside wall of said third tubular member, a rod secured at one end to said stool seat and slidably mounted in said second tubular member, said rod having an enlarged portion at its free end, and lever means pivotally mounted on the lower surface of said seat having its free end engaging said flanged end of said fourth tubular member.

2,638,970
TUBULAR CHAIR CONSTRUCTION
Blair Fowler Harber, Fort Erie, Ontario, Canada
Application March 24, 1950, Serial No. 151,625
9 Claims. (Cl. 155—139)



9. In a collapsible chair having pivotally connected back, seat, front and rear leg frames with said seat frame pivoted at the rear to the lower end of said back frame, a pair of guide members encircling portions of said rear leg frame intermediate the top and bottom thereof and at opposite sides of the chair, means forming an extension of the pivot connection of said back and seat frames non-removably and slidably engaged in said guide members and affording a pivotal sliding control connection tying the pivot of said back and seat frames to said rear leg frame and constraining the pivot of said back and seat frames to move in guided linear sliding motion along said rear leg frame while permitting free pivotal movement of said back and seat frames, said guide members including stop means to bar movement of the aforesaid connecting means along said rear leg frame under loading to maintain said back, seat and rear leg frames against relative movement with the chair in extended position.

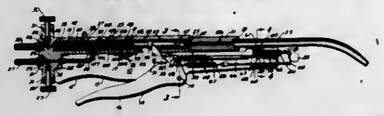
2,638,971
FURNITURE STRUCTURE, MARQUETRY WITH FABRIC
Jack Furman, San Antonio, Tex.
Application January 26, 1951, Serial No. 207,900
2 Claims. (Cl. 155—184)



1. A furniture structure comprising a frame, said frame including members having plane

surfaces, said structure being upholstered, female elements secured to the plane surfaces of preselected members of said frame, said upholstery enveloping said female elements, male elements covered with preselected fabric secured within said female elements whereby a certain design may be produced on said structure.

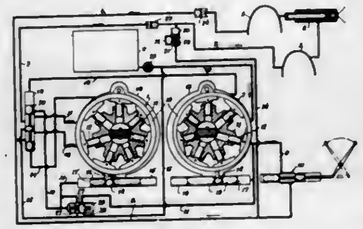
2,638,972
TORCH
Warren A. Sparks, Long Beach, Calif., assignor to John M. Henry, Los Angeles, Calif.
Application January 28, 1950, Serial No. 140,981
2 Claims. (Cl. 158—27.4)



1. A torch comprising: a body; a burner tube; a trigger; a flint and striker; resilient means biasing said flint against said striker; resilient means connecting said trigger and said striker and operable to snap said striker against said flint on compression sufficient to overcome the resistance of said flint against said striker to ignite gas in said burner tube; said body having a longitudinal bore; a piston slidable in said bore and operably associated with said trigger; said piston being provided with a longitudinal gas passage; a conduit for supplying acetylene to said bore; a valve seat in said bore; a valve associated with said valve seat and having a stem; said stem being engageable by said piston upon actuation of said trigger to unseat said valve; a spring normally biasing said valve against said seat; a second valve seat in said bore having an opening communicating with said first valve seat; a second valve associated with said second valve seat and having a stem engageable upon further movement of said piston by said first valve to unseat said second valve; a second spring normally biasing said second valve toward closed position; a conduit for supplying oxygen to said bore on the inlet side of said second valve, whereby on actuation of said trigger said first valve is opened to first admit acetylene to said burner tube, said flint is next sparked to ignite said acetylene and said second valve is then opened to admit oxygen to said burner tube.

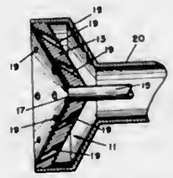
2,638,973
FUEL SUPPLY SYSTEM WITH EMERGENCY SWITCHING MEANS
Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application January 14, 1948, Serial No. 2,342
In Great Britain December 24, 1947
9 Claims. (Cl. 158—36.3)

1. A fuel supply system, for the supply of liquid fuel in variable quantities under normal or under abnormal or emergency conditions to a spill type burner, particularly in an aircraft engine, said system comprising, in combination with a fuel reservoir, a normally operative circulating pump, a supply pump also and simultaneously normally operative, first conduit means constituting a closed circulation path arranged to lead from the output side of the circulating pump to the burner, and from the burner to the input side of the circulating pump, second conduit means leading from the reservoir to the return portion of the first conduit means through the supply pump, means operatively associated with the supply pump to vary its delivery automatically in accordance with the burner's requirements, throttle means in the second conduit means intermediate the supply pump and the connection to the first conduit means, to regulate the supply of fuel to the burner from the supply pump, a circuit control valve in the first conduit means subject to pressure developed in the supply pump, and thereby normally biased to remain in a position for delivery to the burner from the circulating pump, and return to the latter from the burner, but subject also to pressure developed in the circulating pump and thereby counterbiased to shift from such normal to an emergency position in event of failure of the supply pump, an emergency output conduit



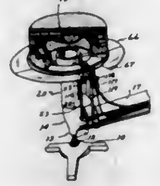
connecting the output side of the circulating pump, by way of said circuit control valve when in its emergency position, with the second conduit means between the output side of the supply pump and the throttle means, and arranged for delivery of fuel through the throttle means to the burner from the circulating pump, an emergency input conduit connecting the input side of the circulating pump, by way of said circuit control valve when in its emergency position, with the reservoir, and means operatively associated with the circulating pump, and operatively connectable thereto only through the circuit control valve when the latter is in its emergency position, to vary the delivery of the circulating pump in accordance with pressure in said pump's output as varied by the setting of said throttle means.

2,638,974
FUEL BURNER DIFFUSER
Ralph C. Brierly, Narberth, Pa.
Application January 24, 1947, Serial No. 724,220
12 Claims. (Cl. 158—76)
(Granted under Title 35, U. S. Code (1952), sec. 266)



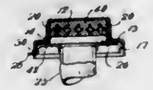
1. A diffuser for oxidant supplied to a fuel burner, said diffuser comprising a plate having a rear face and a front face indented substantially in the form of a cone, said plate having ports therethrough extending from said rear face to said front face, and means for supplying oxidant under pressure solely to said rear face for flow through said ports, each of said ports being positioned in said plate to discharge the oxidant flowing through the respective ports from said front face in a direction diverging from the axis of said cone and lying in a plane passing through the axis of said cone.

2,638,975
COMBUSTION CHAMBER FOR GASEOUS FUELS
Michael F. Berry, Cleveland, Ohio
Application April 23, 1948, Serial No. 22,844
3 Claims. (Cl. 158—115)



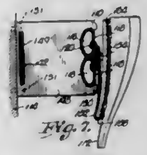
3. In a furnace burner adapted for use with a fuel mixing mechanism; comprising a combustion chamber adapted to be connected to said fuel mixing mechanism and including a support member, a base plate mounted on said support member, a circumferential rim on said base plate, a pair of substantially radial ribs on said base plate defining a channel formed therein, said combustion chamber comprising a plurality of ceramic members supported on said base plate to provide a lower combustion chamber element, said members resting on said plate within said rim and being thereby held in a predetermined lateral position on said plate, at least one of said members being formed with a groove on its lower surface adapted to embrace said ribs to close the channel formed thereby and to locate said combustion chamber element angularly on said base plate, a pilot light mounted on said support plate adapted to burn opposite the outer end of said channel, an upper portion for said combustion chamber comprising at least two upper ceramic members, said upper and lower members being formed so that the lower members hold the upper members in position, said ceramic members being formed to provide a primary combustion chamber and burner ports extending through said members from said chamber.

2,638,976
GAS BURNER CAP WITH BRANCHED OUTLET PORTS
Leslie F. Vixler, Rocky River, Ohio, assignor to The Patrol Valve Company, Cleveland, Ohio, a corporation of Ohio
Application December 16, 1952, Serial No. 326,336
7 Claims. (Cl. 158—116)



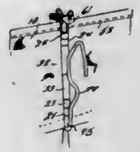
1. A burner of the class described, comprising means for mixing gas and air and including a burner head forming a chamber communicating with said mixing means, and having a substantially imperforate top and a substantially vertically disposed side wall, said side wall having a series of separate outlet ports arranged around and extending through the periphery of said side wall, each port comprising three or more elongated narrow open portions radiating from a common central opening of substantially the width of said elongated portions, and in which each of the ports has a perimeter, the value of the numbers indicating its length in linear inches ranging from twenty to fifty times the value of the number indicating its area expressed in square inches.

2,638,977
SLIDE-ON WELT DRAPERY HANGER
Michael Hardwick, Independence, Mo.
Application January 2, 1951, Serial No. 204,047
10 Claims. (Cl. 160—344)



9. In a traverse assembly adapted to hang draperies; a plurality of hangers each having a vertically disposed inverted, frusto-conical, slotted portion thereon; and beads on the draperies having at least a portion of their lengths within the slotted portions respectively; one of the hangers having structure for engaging a cord comprising a cord embracing member on the said one hanger, a pin for extending through the cord and a detent for holding the pin in place.

2,638,978
DRAPERY, DRAPERY HEADING, AND SUPPORTING MEANS THEREFOR
Elizabeth S. Atkins, Asheville, N. C.
Application October 11, 1949, Serial No. 120,756
11 Claims. (Cl. 160—348)



1. In a drapery heading, a drapery body, a stiffening strip fixed to said body against the inner face of the upper edge portion thereof, and horizontally spaced groups of loops projecting from the inner face of said strip, the loops of each group being vertically offset whereby, when the strip is folded vertically on lines coincident with the respective loops, said strip and said drapery body will be formed in outwardly extending pleats with the loops of each group in vertical alignment, said strip being folded as indicated to bring the loops of each group into vertical alignment and a supporting hook having a straight upwardly extending shank inserted through the aligned loops of each group and serving to hold them in aligned position and maintain said strip folded along said lines.

surfaces, said structure being upholstered, female elements secured to the plane surfaces of preselected members of said frame, said upholstery enveloping said female elements, male elements covered with preselected fabric secured within said female elements whereby a certain design may be produced on said structure.

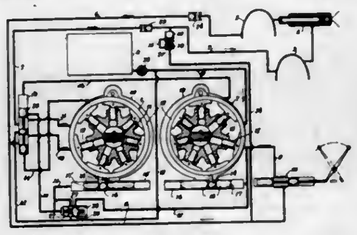
2,638,972
TORCH
Warren A. Sparks, Long Beach, Calif., assignor to John M. Henry, Los Angeles, Calif.
Application January 28, 1950, Serial No. 140,981
2 Claims. (Cl. 158—27.4)



1. A torch comprising: a body; a burner tube; a trigger; a flint and striker; resilient means biasing said flint against said striker; resilient means connecting said trigger and said striker and operable to snap said striker against said flint on compression sufficient to overcome the resistance of said flint against said striker to ignite gas in said burner tube; said body having a longitudinal bore; a piston slidable in said bore and operably associated with said trigger; said piston being provided with a longitudinal gas passage; a conduit for supplying acetylene to said bore; a valve seat in said bore; a valve associated with said valve seat and having a stem; said stem being engageable by said piston upon actuation of said trigger to unseat said valve; a spring normally biasing said valve against said seat; a second valve seat in said bore having an opening communicating with said first valve seat; a second valve associated with said second valve seat and having a stem engageable upon further movement of said piston by said first valve to unseat said second valve; a second spring normally biasing said second valve toward closed position; a conduit for supplying oxygen to said bore on the inlet side of said second valve, whereby on actuation of said trigger said first valve is opened to first admit acetylene to said burner tube, said flint is next sparked to ignite said acetylene and said second valve is then opened to admit oxygen to said burner tube.

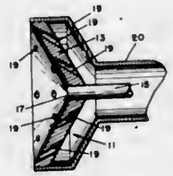
2,638,973
FUEL SUPPLY SYSTEM WITH EMERGENCY SWITCHING MEANS
Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application January 14, 1948, Serial No. 2,342
In Great Britain December 24, 1947
9 Claims. (Cl. 158—36.3)

1. A fuel supply system, for the supply of liquid fuel in variable quantities under normal or under abnormal or emergency conditions to a spill type burner, particularly in an aircraft engine, said system comprising, in combination with a fuel reservoir, a normally operative circulating pump, a supply pump also and simultaneously normally operative, first conduit means constituting a closed circulation path arranged to lead from the output side of the circulating pump to the burner, and from the burner to the input side of the circulating pump, second conduit means leading from the reservoir to the return portion of the first conduit means through the supply pump, means operatively associated with the supply pump to vary its delivery automatically in accordance with the burner's requirements, throttle means in the second conduit means intermediate the supply pump and the connection to the first conduit means, to regulate the supply of fuel to the burner from the supply pump, a circuit control valve in the first conduit means subject to pressure developed in the supply pump, and thereby normally biased to remain in a position for delivery to the burner from the circulating pump, and return to the latter from the burner, but subject also to pressure developed in the circulating pump and thereby counterbiased to shift from such normal to an emergency position in event of failure of the supply pump, an emergency output conduit



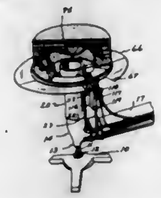
connecting the output side of the circulating pump, by way of said circuit control valve when in its emergency position, with the second conduit means between the output side of the supply pump and the throttle means, and arranged for delivery of fuel through the throttle means to the burner from the circulating pump, an emergency input conduit connecting the input side of the circulating pump, by way of said circuit control valve when in its emergency position, with the reservoir, and means operatively associated with the circulating pump, and operatively connectable thereto only through the circuit control valve when the latter is in its emergency position, to vary the delivery of the circulating pump in accordance with pressure in said pump's output as varied by the setting of said throttle means.

2,638,974
FUEL BURNER DIFFUSER
Ralph C. Brierly, Narberth, Pa.
Application January 24, 1947, Serial No. 724,220
12 Claims. (Cl. 158—76)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A diffuser for oxidant supplied to a fuel burner, said diffuser comprising a plate having a rear face and a front face indented substantially in the form of a cone, said plate having ports therethrough extending from said rear face to said front face, and means for supplying oxidant under pressure solely to said rear face for flow through said ports, each of said ports being positioned in said plate to discharge the oxidant flowing through the respective ports from said front face in a direction diverging from the axis of said cone and lying in a plane passing through the axis of said cone.

2,638,975
COMBUSTION CHAMBER FOR GASEOUS FUELS
Michael F. Berry, Cleveland, Ohio
Application April 23, 1948, Serial No. 22,844
3 Claims. (Cl. 158—115)



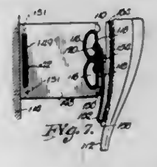
3. In a furnace burner adapted for use with a fuel mixing mechanism; comprising a combustion chamber adapted to be connected to said fuel mixing mechanism and including a support member, a base plate mounted on said support member, a circumferential rim on said base plate, a pair of substantially radial ribs on said base plate defining a channel formed therein, said combustion chamber comprising a plurality of ceramic members supported on said base plate to provide a lower combustion chamber element, said members resting on said plate within said rim and being thereby held in a predetermined lateral position on said plate, at least one of said members being formed with a groove on its lower surface adapted to embrace said ribs to close the channel formed thereby and to locate said combustion chamber element angularly on said base plate, a pilot light mounted on said support plate adapted to burn opposite the outer end of said channel, an upper portion for said combustion chamber comprising at least two upper ceramic members, said upper and lower members being formed so that the lower members hold the upper members in position, said ceramic members being formed to provide a primary combustion chamber and burner ports extending through said members from said chamber.

2,638,976
GAS BURNER CAP WITH BRANCHED OUTLET PORTS
Leslie F. Vixler, Rocky River, Ohio, assignor to The Patrol Valve Company, Cleveland, Ohio, a corporation of Ohio
Application December 16, 1952, Serial No. 326,336
7 Claims. (Cl. 158—116)



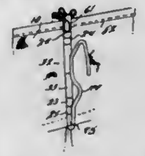
1. A burner of the class described, comprising means for mixing gas and air and including a burner head forming a chamber communicating with said mixing means, and having a substantially imperforate top and a substantially vertically disposed side wall, said side wall having a series of separate outlet ports arranged around and extending through the periphery of said side wall, each port comprising three or more elongated narrow open portions radiating from a common central opening of substantially the width of said elongated portions, and in which each of the ports has a perimeter, the value of the numbers indicating its length in linear inches ranging from twenty to fifty times the value of the number indicating its area expressed in square inches.

2,638,977
SLIDE-ON WELT DRAPERY HANGER
Michael Hardwick, Independence, Mo.
Application January 2, 1951, Serial No. 204,047
10 Claims. (Cl. 160—344)



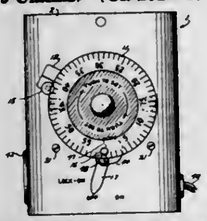
9. In a traverse assembly adapted to hang draperies; a plurality of hangers each having a vertically disposed inverted, frusto-conical, slotted portion thereon; and beads on the draperies having at least a portion of their lengths within the slotted portions respectively; one of the hangers having structure for engaging a cord comprising a cord embracing member on the said one hanger, a pin for extending through the cord and a detent for holding the pin in place.

2,638,978
DRAPERY, DRAPERY HEADING, AND SUPPORTING MEANS THEREFOR
Elizabeth S. Atkins, Asheville, N. C.
Application October 11, 1949, Serial No. 120,756
11 Claims. (Cl. 160—348)



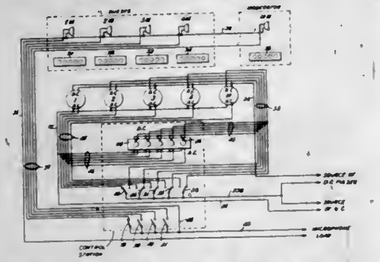
1. In a drapery heading, a drapery body, a stiffening strip fixed to said body against the inner face of the upper edge portion thereof, and horizontally spaced groups of loops projecting from the inner face of said strip, the loops of each group being vertically offset whereby, when the strip is folded vertically on lines coincident with the respective loops, said strip and said drapery body will be formed in outwardly extending pleats with the loops of each group in vertical alignment, said strip being folded as indicated to bring the loops of each group into vertical alignment and a supporting hook having a straight upwardly extending shank inserted through the aligned loops of each group and serving to hold them in aligned position and maintain said strip folded along said lines.

2,638,979
CONTROL DEVICE
John L. Harris, Whitefish Bay, Wis.
Application August 2, 1948, Serial No. 42,119
9 Claims. (Cl. 161—1)



1. In a timer mechanism, the combination of, timer motor means, a switch, means including an operator for said switch constructed and arranged to move the switch from a first position to a second position and then back to its first position as the operator moves in a single direction, actuating means operated by the timer motor means for actuating said operator in a direction to move the switch from its first position to its second position, means for setting the actuating means for a predetermined period of time, and means operated by the setting means at the end of its setting stroke for actuating said operator in a direction to move the switch from its second position to its first position.

2,638,980
PROGRAM CONTROL APPARATUS
William B. Dolph, Washington, D. C.
Application June 18, 1952, Serial No. 294,210
16 Claims. (Cl. 161—17)



1. A program device of the class described comprising in combination; a plurality of microphones, a plurality of timing clocks equal in number to the number of said microphones and associated with said microphones, said clocks being so situated and of such a size as to be readily readable by an audience, clock actuating and deactuating means, microphone connector means, means for actuating each clock during such time as its associated microphone is delivering an output, means for disconnecting each microphone when its associated clock has run a predetermined total of time.

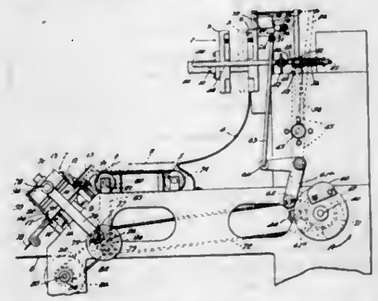
2,638,981
GUN PERFORATOR ACTUATOR
Thomas C. Bannon, Altadena, and Lloyd Spencer, South Pasadena, Calif., assignors of thirty-three and one-third per cent to John D. Chesnut, Newport Beach, Calif.
Application January 22, 1948, Serial No. 3,675
13 Claims. (Cl. 164—0.5)

2. The combination with a suspension line, a godevil adapted to travel on said line, and a gun perforator having a firing pin, of an actuator adapted to be interposed between said suspension line and said gun perforator, and comprising: a lost motion jar structure connected with said suspension line and adapted to occupy an extended position when supporting said gun perforator and to move to a retracted position when free from the weight thereof; a firing device incorporating said jar structure having a dis-



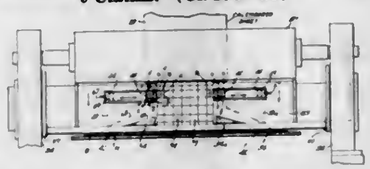
armed position when said jar is extended and an armed position when said jar structure is retracted to transmit an impact from a godevil traveling down said suspension line to the firing pin of said gun perforator; and means including wedging slips operable to transfer support of said gun perforator from said suspension line to a surrounding well casing, thereby to permit retraction of said jar structure.

2,638,982
BATTERY GRID TRIMMING MACHINE
Herbert C. Winkel, Watervliet, Mich.
Continuation of application Serial No. 678,770, June 24, 1946. This application July 8, 1952, Serial No. 297,607
7 Claims. (Cl. 164—20)



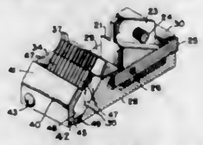
1. A grid trimming machine for trimming cast grids having laterally spaced finless stop-engaging lugs on the lower forward edges on opposite sides of the center of gravity of the grids comprising a grid-trimming apparatus, and means for delivering the grids one at a time to the trimming apparatus, said trimming apparatus comprising an inclined grid-supporting face, positioning stop means at the forward delivery edge of the grid-supporting face for normally engaging the finless stop-engaging lugs on the grid casting, relatively reciprocable transversely extending cooperating shear blades spaced rearwardly of said stop means a distance equal to the length of said lugs for shearing off the overflow and lugs along the transversely extending forward edge of the grid, and means operated in timed relation to said shear blades for disengaging said stop means from the stop-engaging lugs of the grid casting after the shearing operation.

2,638,983
APPARATUS FOR THE MANUFACTURE OF INLAID FLEXIBLE SMOOTH SURFACE COVERINGS AND THE LIKE
Hugh Ward, Kearny, N. J., assignor to Congoleum-Nairn Inc., a corporation of New York
Application April 8, 1950, Serial No. 154,786
9 Claims. (Cl. 164—28)



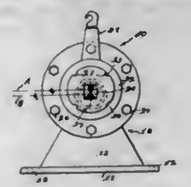
1. In apparatus of the character described, the combination with a cutting cylinder adapted for cutting and inlaying tesserae of means for rotatably mounting said cylinder, a cutting die peripherally carried by said cutting cylinder and adapted for cutting a tessera, means for mounting said cutting die on said cutting cylinder for movement along the periphery of said cylinder between two positions spaced apart lengthwise of the cylinder, and means for moving said cutting die back and forth between said positions during the rotation of said cylinder.

2,638,984
CIRCUMFERENTIAL TIRE SLITTING TOOL
William F. Errig, Jenkintown, Pa., and Edward S. De Hart, Collingswood, N. J., assignors, by direct and mesne assignments, to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application January 13, 1950, Serial No. 138,374
5 Claims. (Cl. 164—39)



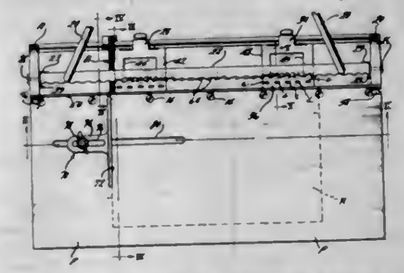
1. In apparatus for the circumferential slitting of the peripheral surface of a tire, a blade holder having an exterior contact face for contact with the peripheral surface, said holder having an interior recess disposed at an angle to said contact face, an end closure for said holder and providing with said holder a blade receptacle with an end opening, said end closure having an interior face thereof with the central portion thereof of offset with respect to the ends thereof, a plurality of parallel blades in said receptacle having portions seated on said interior face and having longitudinal cutting edges disposed parallel and extending through said end opening beyond said contact face, and means carried by said holder for holding said blades in position.

2,638,985
IRON SHEAR AND SEPARATOR
John A. Ross, Klamath Falls, Oreg.
Application March 21, 1951, Serial No. 216,808
3 Claims. (Cl. 164—40)



1. An iron shear and separator comprising a stationary frame including an elongated sleeve, a pair of corresponding chucks having adjacent end portions journaled in said sleeve including adjacently disposed flat end faces, said chucks including restricted remote end portions projecting from the ends of said sleeve, retaining members engaging loosely around parts of the restricted remote end portions of the chucks and detachably secured to the ends of the sleeve, said retaining members having inner portions abutting against the shoulders of the enlarged ends of the chucks surrounding said restricted remote ends of the chucks and retaining the adjacent faces of the chucks in abutting engagement, leverage members fixed to the restricted end portions of the chucks beyond said retaining members and extending radially therefrom for revolving the chucks in the sleeve, a pair of dies nonrotatably disposed in each chuck have a bore of noncircular cross section extending longitudinally therethrough for receiving a workpiece, the axis of the bores of each pair of dies being radially spaced from the axis of the chucks, portions of the bores of the pairs of dies being disposed in alignment with the axis of the chucks and other portions of said bores being radially spaced from the axis of the chucks whereby a workpiece engaging the bores of the pairs of dies of both chucks will be separated in the plane of the abutting faces of the chucks by a shearing and twisting force upon relative rotation of the chucks in the sleeve.

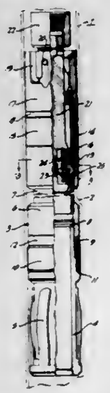
2,638,986
PORTABLE PUNCHING MACHINE
Charles Edward Emmer, Chicago, Ill., assignor to General Binding Corporation, Chicago, Ill., a corporation of Illinois
Application August 29, 1947, Serial No. 771,161
14 Claims. (Cl. 164—91)



1. A portable punch for punching sheets to receive a ring binder or the like comprising a frame having a substantially flat surface to support said

sheets, a cam bar extending across said frame and pivotally supported therefrom, a plurality of punch gangs each having a plurality of equally spaced punching elements disposed to be engaged by said bar to punch holes in said sheets as said bar is rotated, means to bias said elements to retracted positions free of said sheets, said gangs being shiftable relative to said frame to adjust the positions of the holes punched in said sheets and said operating bar having a plurality of slots along the surface in engagement with said punching elements, said slots being spaced in accord with the spacing of said elements so that the positions of said gangs may be fixed relative to each other by aligning said slots and said elements.

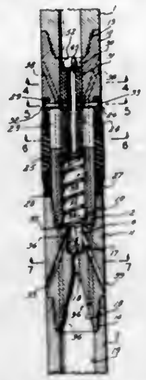
2,638,987
PIPE REPAIR SLEEVE
Elmo L. Condra, Long Beach, Calif.
Application August 3, 1950, Serial No. 177,415
5 Claims. (Cl. 166—11)



1. A pipe repair sleeve, a drill pipe on which said sleeve is mounted, said pipe being movable into a well, the sleeve consisting of an outer tubular assembly comprising a sub, a center section, and a shoe, said sub being threaded into the top of the center section, and said shoe being threaded into the bottom of the center section, a packer mounted on the sub, a second packer mounted on the shoe, each of said packers being compressed against the center section on rotation of the repair sleeve, spring fingers on the shoe engaging the pipe, a drive mandrel mounted on the drill pipe and extending into said tubular assembly, and spring detent means engaging said center section whereby the tubular assembly is rotated with said mandrel.

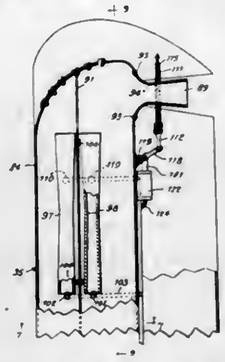
2,638,988
WELL DRILLING APPARATUS
Welton J. Williams, Brownfield, Tex.
Application February 12, 1951, Serial No. 210,516
7 Claims. (Cl. 166—19)

1. A reverse circulation wash-out mechanism to be run in a cased well on the lower end of a pipe-string extending downwardly in the well from the earth's surface to adjacent the well bottom, said mechanism being positioned above a debris or core catching tool, and including: a tubular body having its upper end threadedly connected to the lower end of the pipe-string, and having its lower end connected to the upper end of said tool; an axial bore in the upper portion of said body; a reduced upwardly presented shoulder in said bore and forming a ball seat; a second bore extending axially through the body below said seat; radially spaced fluid outlet ports extending from the upper bore outwardly through the wall of the body; a tubular sleeve slidably disposed in said upper bore; a ball seat on the upper end of said sleeve; longitudinal flow



passages in the wall of said sleeve through which fluid may flow when its bore is closed; a resilient packer around the body, said packer connected to the sleeve and expandable by downward movement thereof; and radially spaced vertical passages in the wall of said body, said passages extending upwardly from the lower bore to a point above the packer, and thence outwardly through the body wall above said packer.

2,638,989
METHOD OF BURNING FUEL IN JET-OPERATED ROTOR BLADES
Witold Brzozowski, Westmount, Montreal, Quebec, Canada, assignor to Stefan Czarnecki, Walden, N. Y.
Original application November 28, 1945, Serial No. 631,319. Divided and this application August 23, 1949, Serial No. 116,190
2 Claims. (Cl. 170—135.4)



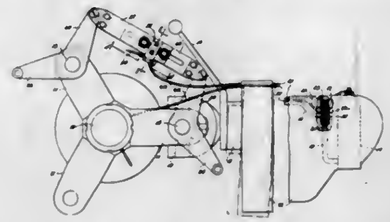
1. The method of burning fuel in a sustaining airfoil section through which a stream of air is blown at a maximum velocity of V feet per second and in which the fuel mixture within the air has a rate of flame propagation of P feet per second in the air fuel mixture within the airfoil section, the flame propagation rate being substantially less than the velocity of the air stream, which method comprises passing a portion of the air stream through an open ended tube extending lengthwise of the air stream, mixing fuel with the portion of the air stream that flows through the tube by supplying the fuel to said portion of the air stream at a location near the upstream end of the tube, and igniting the air fuel mixture from incandescent surfaces of the tube wall throughout a length of the air-fuel stream which is equal in feet to at least RV/P where R is the distance of the ignition wall surfaces from the longitudinal axis of the air-fuel stream.

2,638,990
AIRCRAFT SUSTAINING ROTOR BLADE WITH AIRFLOW CONTROL
Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application April 1, 1947, Serial No. 738,588
7 Claims. (Cl. 170—135.4)



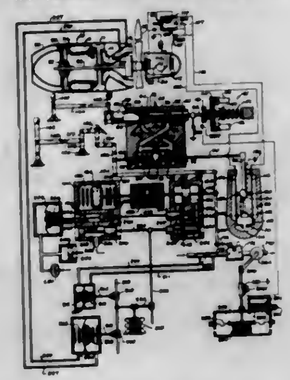
1. An aircraft sustaining rotor blade comprising a main longitudinal spar extended throughout a major portion of the blade length and disposed well forwardly in the blade, blade surfacing defining the external contour thereof and being slotted toward the outer end of the blade in the upper surface thereof to deliver air to said upper surface, blade rib elements extended rearwardly of the spar within the blade surfacing, the rib elements being transversely apertured to the rear of the spar, and a duct extended through the rib apertures and having an air inlet toward the inner end of the blade and being in communication with the slotting of the blade surfacing to discharge air under pressure through said slotting.

2,638,991
CONTROL MECHANISM FOR JET DRIVEN AIRCRAFT SUSTAINING ROTOR BLADES
Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application November 15, 1947, Serial No. 786,178
14 Claims. (Cl. 170—135.4)



1. For an aircraft having a sustaining rotor, a plurality of rotor blades, means for mounting each blade for swinging movement in the lag-lead sense, a driving jet carried by each blade, individual control devices for the several jets, and mechanism responsive to relative lag-lead blade movement to actuate the control devices to terminate operation of the several jets.

2,638,992
GAS TURBINE POWER CONTROL
Wilton G. Lundquist, Hohokus, William T. Stark, Pompton Lakes, and William C. Schaffer, Fairlawn, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application July 12, 1946, Serial No. 683,264
26 Claims. (Cl. 170—135.74)

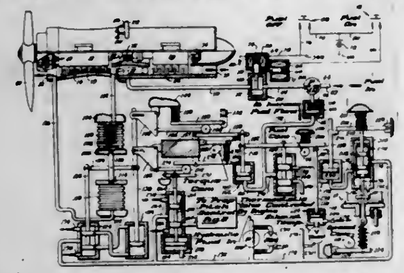


7. A control system for a gas turbine drivably connected to an adjustable pitch propeller and having means for supplying fuel to said turbine; said system comprising propeller blade pitch angle regulating means; fuel flow regulating means; turbine speed control mechanism including means responsive to the speed of said turbine and including adjustable means for setting the turbine speed to be maintained; means operatively connecting said speed responsive means to said fuel regulating means such that a change in turbine speed from said set value is effective to cause operation of said fuel regulating means in a manner tending to return said turbine speed toward said set value; and means including lost-motion means operatively connecting said speed responsive means to said pitch angle regulating means such that a change in turbine speed from said set value is effective to cause operation of said pitch angle regulating means only upon a speed change from said set value in excess of a predetermined amount, the operation of said pitch angle regulating means being in a manner tending to return said turbine speed toward said set value.

2,638,993
HYDRAULIC CONTROL APPARATUS FOR INTERNAL-COMBUSTION ENGINES AND VARIABLE PITCH PROPELLERS
James S. Woodward, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application October 1, 1947, Serial No. 777,323
19 Claims. (Cl. 170—135.74)

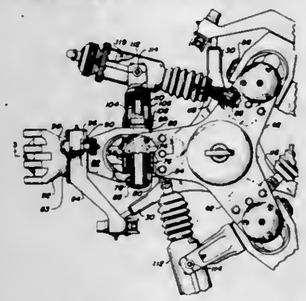
2. Control apparatus for an internal combustion engine and a variable pitch propeller driven thereby, comprising: propeller pitch changing means, means for regulating the fuel supply to said engine, a first manually movable control device, means including said device for controlling both said pitch changing means and said fuel

supply regulating means, speed responsive means for additionally controlling the fuel supply, and a second manually movable control device for varying the response characteristic of said speed



responsive means; said control devices being operatively interconnected so that the movement of one device is limited by the position of the other device.

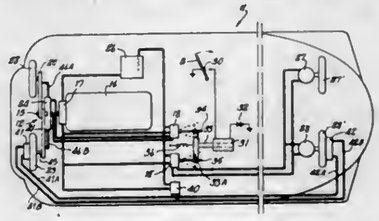
2,638,994
ROTOR HEAD
Michel D. Buivid, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 30, 1951, Serial No. 218,313
4 Claims. (Cl. 170—160.55)



1. In a rotary wing aircraft, a hub structure, a generally horizontal flapping hinge pin journalled in said hub structure, a flapping link secured rigidly to said pin and movable bodily therewith in said hub journal, said pin having an extension on one side of said flapping link, a sleeve journalled on said extension, a damper including cooperation piston and cylinder elements, a pivotal connection between said sleeve and one of said damper elements, and a pivotal connection between the other damper element and said hub structure.

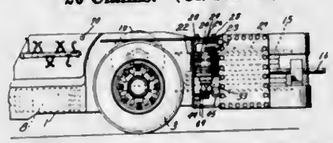
2,638,995
VEHICLE PARKING DEVICE
George A. Gottlieb, New York, N. Y.
Application April 30, 1948, Serial No. 24,216
2 Claims. (Cl. 180—1)

1. The combination of fluid jacking means and fluid driving means in a fluid system to raise and move a vehicle having wheels into a parked position which includes an engine, a plurality of hydraulic jacks mounted on the front and rear ends of said vehicle for raising both the front end and rear end of said vehicle from said wheels, a fluid pump on said vehicle, means operatively connecting said pump and said engine for driving said pump from said engine, a fluid reservoir on said vehicle, a pair of selector valves on said vehicle, means connecting said reservoir with said pump, means connecting said reservoir with each of said valves, means connecting said pump with each of said valves, means connecting one of said valves with the hydraulic jacking means at the front end of the vehicle, means connecting the other of said valves with the hydraulic jacking means at the rear end of the vehicle, auxiliary wheels mounted at the ground end of each hydraulic jack and positioned to rotate at 90° to the plane in which the vehicle wheels rotate, a pair of fluid motors, one of said



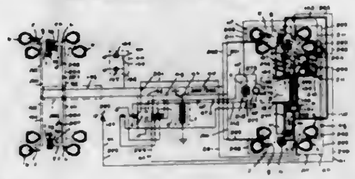
motors mounted to a front auxiliary wheel and the other of said motors mounted to a rear auxiliary wheel, a third selector valve, means connecting said pump and said third valve, means connecting said third valve with each of said motors, whereby fluid from said pump is transmitted through said third valve and said last mentioned means to thereby drive said motors and said auxiliary wheels, and whereby fluid from said pump is transmitted through said first and second valves and through said means connecting each of said first and second valves with their respective jacking means to thereby extend or retract said jacking means, and means to retract said jack wheels to an unobstructed position.

2,638,996
POWER SUPPLY SYSTEM FOR SELF-PROPELLED VEHICLES
Harry H. Vanderzee, Chicago, Ill., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Original application January 9, 1945, Serial No. 571,991, now Patent No. 2,593,367, dated April 15, 1952. Divided and this application January 28, 1947, Serial No. 724,766
20 Claims. (Cl. 180—2)



1. In combination, in a fluid propelled vehicle, fluid operated propelling means, a pump for supplying operating fluid to said propelling means, said pump having a driving motor, a reel having thereon a cable by which operating medium for said motor is transmitted to the latter, fluid operated reel rotating means, and means for effecting serial flow of operating fluid through said fluid operated propelling means and through said reel rotating means and for effecting the automatic by-passing of the major portion of the fluid passing through said propelling means without entering the reel rotating means when resistance to reel rotation exceeds a predetermined amount, said last mentioned means including a valve controlling fluid by-passing, means for subjecting it to the fluid passing through said propelling means to provide a valve shifting force, and yieldable means for opposing such force.

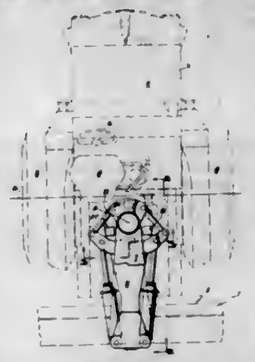
2,638,997
WHEEL EMERGENCY EQUIPMENT
Federico Carlos Kember, Buenos Aires, Argentina
Application May 13, 1947, Serial No. 747,694
16 Claims. (Cl. 180—15)



3. Emergency equipment for vehicles having ground engaging wheels carried by axles, comprising an auxiliary wheel adjacent each of at least two ground engaging wheels and spaced laterally therefrom, a hub for each auxiliary wheel mounted eccentrically with respect to each axle, means mounting each auxiliary wheel on each hub for movement of said auxiliary wheel from an inoperative position considerably eccentric to each ground engaging wheel and out of contact with the ground to an operative position different in respect to said axle and ground engaging wheel and in contact with the ground, means for moving each auxiliary wheel from inoperative to operative position, a fluid pressure tire on each ground engaging wheel having an adjacent auxiliary wheel, fluid pressure responsive means associated with each ground engaging wheel having an adjacent auxiliary wheel, a control power line connected with said fluid pressure responsive means and with said means for moving said auxiliary wheel whereby upon a predetermined reduction in pressure in at least one of said tires said means for moving said auxiliary wheel will be actuated to move at least the associated auxiliary wheel from inoperative to operative position to assume the associated axle load of said vehicle.

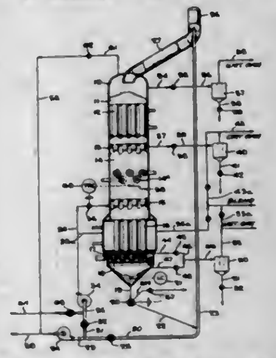
2,638,998
HYDRAULIC POWER STEERING MECHANISM
Harvey W. Rockwell, Cedar Rapids, Iowa, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, a corporation of Delaware
Application September 21, 1950, Serial No. 186,043
9 Claims. (Cl. 180—79.2)

2. A steering mechanism for a tractor and a trailer comprising a frame, a longitudinal pivot for connecting said frame to the rearward portion of said tractor for relative transverse tilting about a longitudinal central axis, a pivot pin on said frame having a substantially vertical axis intersecting said longitudinal axis near the center of said frame, a pivot housing journaled on said pivot pin and interconnected with the trailer, a fulcrum pin on said frame behind said pivot pin and having a substantially vertical axis intersecting said longitudinal axis, levers journaled at their inner ends on said fulcrum pin and extending in opposite directions therefrom, each of said levers being curved to extend around said pivot housing, a pair of double acting hydraulic jacks each being at one end mounted on the rearward part of said frame behind said pivot pin and at the other end engaging an intermediate part of one of said levers, an extension bracket on the forward part of said pivot



housing ahead of said pivot pin, a pair of transversely spaced pivot connections on said housing ahead of said pivot pin, and a pair of struts converging in a forward direction, each of said struts at one end engaging the outer end of one of said levers and at the other end engaging a respective one of said pivot connections.

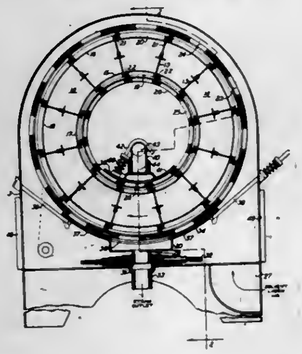
2,638,999
ADSORPTION PROCESS
Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application December 13, 1947, Serial No. 791,640
21 Claims. (Cl. 183—4.2)



1. A method for the separation of a gaseous mixture which comprises passing a solid granular adsorbent downwardly successively through an adsorption zone and a desorption zone as a moving bed, introducing said gaseous mixture into contact with said adsorbent whereby a first portion passes countercurrently through said adsorption zone wherein the more readily adsorbable constituents are adsorbed to form a rich adsorbent and leaving less readily adsorbable constituents as a substantially unadsorbed lean gas and a second portion passes concurrently with said rich adsorbent through said desorption zone, subjecting said rich adsorbent therein to

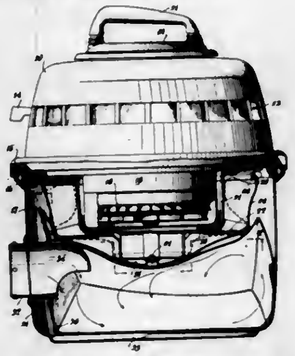
indirect heating while directly contacting the thus heated rich adsorbent concurrently with said second portion of said gaseous mixture in the absence of other stripping gases thereby desorbing more readily adsorbable constituents to form a rich gas and a partially stripped adsorbent, subsequently indirectly cooling said partially stripped adsorbent in a cooling zone while contacting it with a portion of said lean gas to form a lean adsorbent, and returning said lean adsorbent to said adsorption zone.

2,639,000
ROTATING BED ADSORBER
William E. Edwards, Leigh, England, assignor to Sutcliffe Speakman & Company Limited, Leigh, England, a British company
Application June 12, 1951, Serial No. 235,212
In Great Britain March 1, 1950
1 Claim. (Cl. 183—4.6)



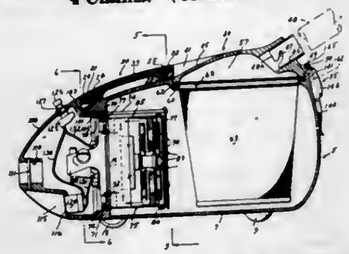
In that apparatus for the recovery of a liquid of the nature of a solvent from a mixture of such liquid with a gas wherein an outer gas-tight casing surrounds an annular container comprising peripherally perforate radial compartments adapted to contain an adsorbent, said container being mounted for rotation therein to connect said compartments with adsorption and regeneration stations, wherein means are provided for passing solvent-laden gas through said compartments at an adsorption station and means are provided for passing steam through said compartments at a regeneration station, that improvement which comprises sealing means for separating said stations, said sealing means comprising auxiliary cylinders fixed surrounding the inner and outer periphery of said annular container, said cylinders being provided with spaced apertures in registry with one another and each in registry with one of said compartments, but being otherwise permanently sealed between said compartments, whereby gas is directed through the apertures to the compartments, and a pair of arcuate shoes, one of said shoes being continuously spring pressed into gas-tight sliding engagement with the inner cylinder and the other shoe being spring pressed into gas-tight sliding engagement with the outer cylinder, the inner shoe being positioned surrounding the inlet of said regeneration station and the outer shoe being positioned surrounding the outlet of said regeneration station, whereby high pressure steam may be used for continuous regeneration of only single compartments of said annular container.

2,639,001
VACUUM CLEANER
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to Lewyt Corporation, Brooklyn, N. Y., a corporation of New York
Application July 29, 1950, Serial No. 176,714
1 Claim. (Cl. 183—37)



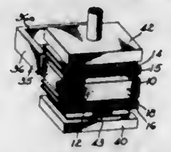
A vacuum cleaner including in combination a housing, a casing for a motor-driven fan carried by and extending beyond said housing, straps connected with said housing and extending below said casing, a flexible filter connected to said housing and loosely enclosing the extended casing portion and straps, a ring-shaped plate extending laterally from and connected to said casing, a series of radially extending arms projecting outwardly from the outer edge of said plate, said straps extending through and below said ring, said plate being disposed within said filter and the projecting arm portions thereof bearing against the inner face of the latter to maintain it in distended condition.

2,639,002
TANK TYPE SUCTION CLEANER
Leslie L. Miller, Inglewood, and Harold S. Ryden, Redondo Beach, Calif., assignors to Interstate Aircraft and Engineering Corp., El Segundo, Calif., a corporation of California
Application March 25, 1946, Serial No. 656,816
4 Claims. (Cl. 183—37)



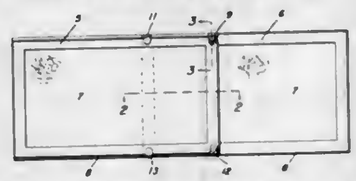
1. In a vacuum cleaner, an elongated hollow casing whose rear end has an inwardly disposed boss providing an annular shoulder, a resilient gasket mounted against said shoulder, a motor-blower unit having its rear end disposed against said gasket, a retainer ring, a resilient gasket interposed between said ring and the forward end of said unit, screw means engaging said ring and threadedly mounted in the boss to confine said unit between said gaskets, the front end of the casing presenting an inlet opening.

2,639,003
METHOD OF ASSEMBLING AN AIR FILTER PANEL
Kenneth F. Russell, Claremont, Calif., assignor to Herman H. Garner, Claremont, Calif.
Application May 19, 1947, Serial No. 748,916
2 Claims. (Cl. 183—47)



1. A method of assembling a filter panel comprising: dropping relatively short resilient coil springs to form a coil body having opposite substantially flat faces; placing screen means in a press; depositing said coil body upon said screen means with one flat face of said coil body engaging said screen means; placing other screens upon the opposite face of said deposited coil body; applying pressure to said other screen means to compress said coil body; placing frame members around the edges of said coil body and said screen means to engage the outside portions at the edges of the screen means and retain said screen means and coil body in assembled relation; and securing said frame members in operative position.

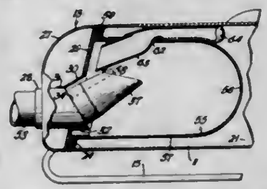
2,639,004
WINDOW AIR FILTER
Robert E. McIntyre, San Francisco, Calif.
Application May 7, 1951, Serial No. 224,971
1 Claim. (Cl. 183—51)



A window air filter, comprising a pair of frames, each having filtering material stretched between the inner edges of said frames, each of said frames having a resilient edging for engaging the window and frame in which said filter is placed and retainers carried by each of said frames and slidably engaging the other of said frames, said retainers each being slidably secured to its respective frame, whereby said retainers will be imbedded in said resilient edging when contacted.

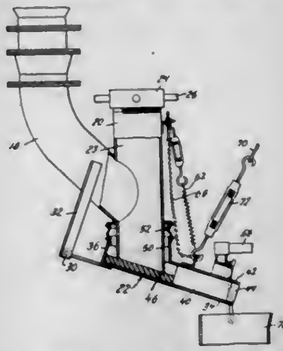
2,639,005
LIQUID SUCTION DEVICE
William Gerstmann, Buffalo, N. Y.
Application May 12, 1950, Serial No. 161,607
5 Claims. (Cl. 183—75)

1. In a liquid-collecting suction device having a body forming a chamber having an open end providing an inlet and having an outlet at its opposite end; an inlet head removably attached to said body and covering said open end of said chamber, an inlet tube extending through said head and having one end adapted for attachment to a suction head, and an inlet nozzle in said chamber carried by the other end of said inlet tube and projecting at an angle to the horizontal upwardly and toward said opposite end of said body, the combination therewith of a means for collecting and holding entrained liquid entering said chamber with air through said inlet nozzle, comprising a flexible, water-impervious dispensable bag having an open end adjacent the open end of said chamber, an opposite closed end and a tubular side wall spaced from the corresponding wall of said chamber, an outward flange around said open end of said bag sealing the inlet end of said chamber and supporting said bag in said chamber, and a conduit projecting in said bag, from the top and adjacent to the



open end thereof and terminating intermediate said nozzle and said flange, said conduit having an open ended passage therethrough the outlet end of which is in communication with the space between said bag and body and the inlet end of which is in communication with the interior of said bag and is arranged between said nozzle and said flange whereby said nozzle discharges its stream of air and entrained water upwardly alongside said conduit but from a point intermediate, said inlet end of said conduit and the closed end of said bag.

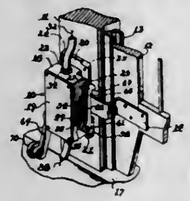
2,639,006
APPARATUS FOR COLLECTING AND DISCHARGING METAL POWDERS
Henry A. Golwynne, New York, N. Y.
Application September 29, 1949, Serial No. 118,626
9 Claims. (Cl. 183—85)



1. In an apparatus for collecting and discharging finely-divided material subject to spontaneous combustion, the improvement comprising a separator for separating the finely-divided material, a hopper for the separated finely-divided material so connected to the separator as to receive finely-divided material therefrom, a container closed at its upper end, a discharge conduit connected to the hopper for the discharge of finely-divided material therefrom, said discharge conduit having its lower portion connected to said container a substantial distance below the closed end thereof for the feeding of material discharged

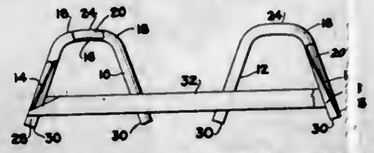
from the hopper laterally into said container, the upper portion of said container forming a relief chamber and the lower portion thereof forming a continuation of the discharge conduit, the bottom of the chamber having an opening forming an outlet for material discharged from the hopper through said discharge conduit, and a closure member for said outlet, the closure member being so mounted that on moving to its closed position it moves in an upward direction against the finely-divided material being discharged from the outlet, whereby the lifting effect exerted on the finely-divided material by the closure member when moving to its closed position will force finely-divided material adjacent the outlet upwardly into said relief chamber rather than backwardly through the discharge conduit towards the hopper.

2,639,007
ELECTRICAL INTERLOCK
Arthur G. Zippler, Philadelphia, Pa.
Application February 26, 1952, Serial No. 273,507
7 Claims. (Cl. 187—50)



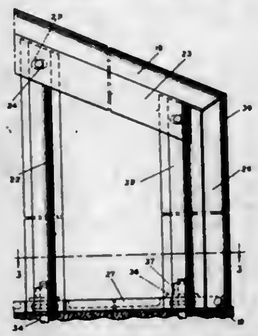
1. An electrical interlock comprising a box body including back, side and upper and lower end walls providing a compartment with an open front normally closed by a detachable cover, said back wall having vertical slots therein at opposite sides thereof and open at the tops and the respective opposite outer sides of the body, said interlock adapted to be mounted on either side of an elevator well entrance whereby one of said slots is adjacent to and facing towards said entrance, such slot adapted to receive a knife carried by a safety gate vertically slidably mounted in said entrance, a lock shaft projecting through the body and journalled in the side walls with the ends of said lock shaft protruding beyond the side walls, a locking lever detachably mounted on the end of the lock shaft at the same side of the body as the slot with which the knife cooperates, said locking lever having a nose for projection across the vertical plane of the slot to hold the knife therein, means to normally urge the locking lever in a direction to cause its nose to project across the vertical plane of the slot, an operating lever detachably fastened to said lock shaft to be acted upon by means carried by an elevator car to retract the locking lever, a contact shaft projecting through the body and journalled in the side walls with the ends of said contact shaft protruding beyond the side walls, a contact lever detachably mounted on an end of said lock shaft at the same side of the body as the slot with which the knife cooperates, said contact lever having a nose with upper and lower beveled edges and adapted to be projected across the vertical plane of the slot, means as a part of said contact lever to be acted upon by the knife for projecting the contact lever nose across said vertical plane of the slot, said contact lever nose to be retracted by direct action of the knife thereon, an electrical switch within the body compartment and including a contactor on the contact shaft, and a light tensioned spring to normally urge said contact shaft in a rotational direction to maintain the switch opened.

2,639,008
WHEEL BLOCK AND CHOCK
Donald A. Howard, Worcester, and William N. Matson, Fitchburg, Mass.
Application March 10, 1950, Serial No. 148,786
4 Claims. (Cl. 188—32)



1. A device of the class described comprising a pair of spaced inverted trough-like members secured in fixed relation to each other and having sloping sides, relatively sharp pointed elements at the widest parts of the trough-like members to dig into a ground surface when weight is applied to the device, the bottoms of the troughs being uppermost and relatively broad to support a tired wheel without damage thereto, and upstanding ribs at the edges of the troughs, said ribs diminishing in height from the trough bottoms toward the widest parts thereof and terminating in sharp ended, laterally flat areas forming the said sharp pointed elements.

2,639,009
GREENHOUSE CONSTRUCTION
Arthur B. Kleinhans, Easton, Pa.; Millicent B. Kleinhans, executrix of said Arthur B. Kleinhans, deceased, assignor to Lord & Burnham Division of Burnham Corporation, Irvington, N. Y.
Application February 5, 1947, Serial No. 726,511
4 Claims. (Cl. 189—4)



1. In a greenhouse including a masonry foundation wall and vertical astragals comprising inwardly open channel strips; means supporting the astragals providing for horizontal movement thereof to accommodate expansion of panels supported between them, said means comprising plural sill plates supported on the top of the foundation wall, each of said plates having a single laterally projecting tongue extending into and secured to an astragal, and supporting said astragal out of contact with the foundation wall, the sill plates being provided with tongue and

slot structure that slidably interfit in adjacent plates, studs mounted in the foundation wall and extending vertically through holes in the said tongues, and securing means mounted on the studs and overlying the tongue and slot structure to permit their relative movement.

2,639,010
ANCHORED CORRUGATED DECKING
Adolph Carl Weber, University City, Mo., assignor to Laclede Steel Company, St. Louis, Mo., a corporation of Missouri
Application June 30, 1949, Serial No. 102,243
1 Claim. (Cl. 189—35)



In a deck wherein corrugated sheeting having valleys and crests is laid upon and anchored to joists having spaced upper chords, the combination of an anchor clip having a shank, a projecting part at one end of said shank, said projecting part being of greater length than the width of the space between said chords, and a crossbar at the other end thereof, said shank extending through a hole in a valley of said sheeting and between said spaced upper chords of a joist, the projecting part engaging an edge of one of the upper chords of said joist below the sheeting, and the crossbar engaging a crest of said sheeting adjacent said hole.

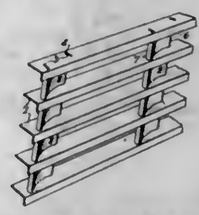
2,639,011
CEILING CONSTRUCTION
Victor E. Peterson, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application September 25, 1948, Serial No. 51,159
1 Claim. (Cl. 189—82)



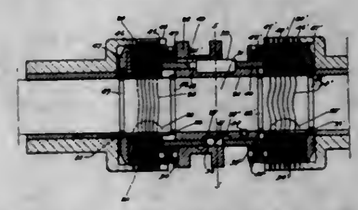
In a ceiling construction including a multiplicity of interlocking flat metal strips, each of said interlocking strips having a plurality of regularly spaced interlocking notches; each of said notches being of T-shaped configuration having a straight, narrow center portion and a pair of oppositely extending wings at the inner end of said center portion separating the edges of the notch from the adjoining metal of the strip to provide unsupported, relatively flexible fins at each side of the notch whereby when an assembly of such strips is collapsed, the fins are flexed within their elastic limits and return to normal coplanar position with the strips upon expanding the assembly.

2,639,012
STRUCTURAL MEMBER
Albert J. Fitzgerald, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application October 11, 1946, Serial No. 702,823
16 Claims. (Cl. 189—82)

16. In combination, a plurality of parallel grille members having pairs of substantially aligned, spaced openings, a pair of flexible holding members extending through said pairs of aligned, spaced openings, transversely relative to said parallel grille members, and secured at their ends to the outermost of said grille members, and a resilient, sheet metal spacer positioned between a successive pair of said grille members maintaining said grille members in spaced relationship, said spacer including an intermediate curved portion and end portions engaging said pair of holding members, the distance between said end portions being different from the spacing of said pair of aligned, spaced openings thereby flexing and biasing said holding members relative to one another and into engagement with said grille members.



2,639,013
MULTIPLE DISK FRICTION CLUTCH
Carlo Meschia, Milan, Italy
Application July 30, 1947, Serial No. 764,630
In France October 22, 1946
5 Claims. (Cl. 192—48)



1. A friction coupling comprising in combination, a drive shaft; a driven shaft; cooperating friction discs carried by said two shafts for transmitting motion between the shafts when compressed; end members provided for said friction discs; a first recess formed on the outer surface of said drive shaft, said first recess having two stepped cylindrical bottom portions connected by an inclined surface; a clutch collar slidable on said drive shaft across said recess; a second recess formed on the inner face of said clutch collar, said second recess having oppositely inclined surfaces and being in inoperative position disposed across the shallower of said stepped bottom portions of said first recess; a ring of balls disposed in said first recess; a slide member disposed for contact with one of said end members and said ring of balls; a stop plate fixedly secured to said drive shaft; spring means abutting at one end against said stop plate and at the other end against the other of said end members and urging said friction discs in one direction toward said slide member; and means for moving said clutch collar axially on said drive shaft whereby said balls are forced by one of said inclined surfaces of said second recess across said inclined surface of said first recess from the shallower onto the deeper of said bottom por-

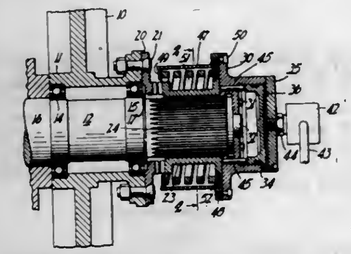
tions of said first recess when moved in the direction opposite to said one direction, and whereby said balls are forced by the action of said spring means to ride upwardly across said inclined surface from the deeper to the shallower of said bottom portions when said clutch collar is moved in said one direction into inoperative position.

2,639,014

FLUID AND SPRING OPERATED CLUTCH

Frederick E. Munschauer, Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y.

Application August 25, 1950, Serial No. 181,478
2 Claims. (Cl. 192—85)



1. Drive means for power presses, shears and like machines comprising a drive shaft, a normally rotating drive wheel mounted on said shaft for free rotation, a jaw clutch element fixed against a face of said wheel, an axially slidable complementary jaw clutch element having an internally splined sleeve portion and interfitting external splines on said drive shaft for movement of the slidable clutch element toward and away from said wheel for connecting and disconnecting the clutch elements, a cylinder element secured to said drive shaft beyond said slidable clutch element and a piston therein movable under the influence of fluid pressure to move the slidable clutch element to engaged position, an external flange at the outer end of the sleeve portion of the clutch element, a sleeve fixed at one end to said cylinder element and telescoping over the slidable clutch element and terminating in an internal flange, and a compression coil spring seated at its opposite ends against said external and internal flanges for urging the slidable clutch element toward the cylinder element to normally disconnect the same.

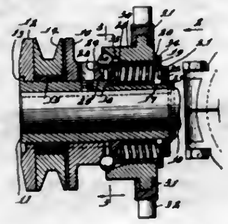
2,639,015

CAM OPERATED CLUTCH WITH SPRING LOADING

Lloyd J. Wolf, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin

Application May 14, 1949, Serial No. 93,358
9 Claims. (Cl. 192—93)

1. In a clutch, the combination of a friction plate, a clamping plate arranged to engage the friction plate, a hub to which the clamping plate is connected for rotation therewith and axial movement relative thereto, a ring slidable on the hub in coaxial relation to the clamping plate, spring means urging the ring towards the clamping plate, wedge-acting means movable inwardly of the hub for moving the clamping plate in one direction to engage the friction plate and for moving the ring in the opposite and further loading direction against the spring means, and



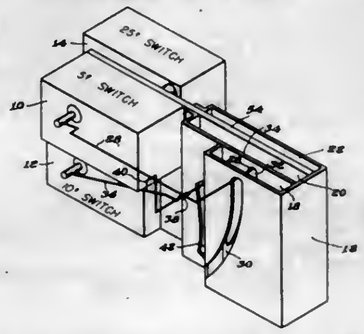
means limiting the movement of the ring towards the clamping plate.

2,639,016

CONTROL ASSEMBLY FOR COIN OR TOKEN OPERATED VENDING MACHINES

Ernest E. York, Falmouth Corner, Maine, assignor to American Coin Changer Corp., Boston, Mass., a corporation of Maine

Application May 18, 1950, Serial No. 162,745
3 Claims. (Cl. 194—10)



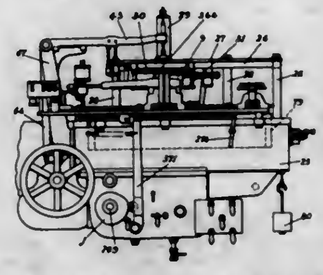
2. In a control assembly for a coin or token operated vending machine or the like having an article-delivering mechanism, a single relay actuating said mechanism, three coin tracks, each adapted for the reception of coins of a particular value, a switch biased in open position in the circuit with said relay, a first coin actuable switch arm extending from said switch into the coin track adapted for the reception of the coins of lowest value, a second switch biased in open position having a coin actuable switch arm extending therefrom into the coin track adapted for the reception of the coins of highest value, and a third switch biased in open position having a coin actuable switch arm extending into the coin track adapted for the reception of the coins of intermediate value, said third mentioned switch arm overlying said first mentioned switch arm and underlying said second mentioned switch arm so that said second-mentioned switch arm is actuated only by a coin passing through its corresponding track, said third-mentioned switch arm is actuated both by a coin passing through its corresponding track and by actuation of said second-mentioned switch arm, and said first-mentioned switch arm is actuated both by a coin passing through its corresponding track and by actuation of said third-mentioned switch arm.

2,639,017

MACHINE FOR PRODUCING TYPE FACED IMPRESSIONS IN OR FOR PRINTING

Henry George Croucher, Beccles, England, assignor to William Clowes & Sons Limited, Beccles, England

Application March 7, 1950, Serial No. 148,132
In Great Britain March 12, 1949
38 Claims. (Cl. 197—2)



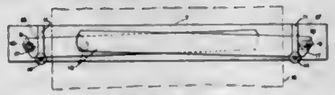
1. A machine for producing spaced lines of type faced characters upon a receiving surface comprising, in combination, a unitary support carrying a plurality of type faced character bearing elements individually displaceable therein to enable any one character face to be advanced beyond the remainder, means for temporarily displacing a selected element to advance its character bearing face with respect to said unitary support, plane surface supporting means for a receiving surface capable of having characters reproduced thereon from said elements, means for effecting relative movement between said supporting means and said unitary support in a direction to form, on the said receiving surface, a character from the previously advanced character bearing element, means for effecting relative movement between the said surface supporting means and the unitary support in a direction to predetermine the position upon the said surface at which the character is formed by said first mentioned relative movement, and means for controlling said second mentioned relative movements to form spaced lines of characters upon the receiving surface.

2,639,018

CARBON HOLDER FOR CONTINUOUS-FORM STATIONERY

Charles W. Hatfield, St. Louis, Mo., assignor to Standard Manifold Company, a corporation of Illinois

Application December 20, 1951, Serial No. 262,588
3 Claims. (Cl. 197—126)



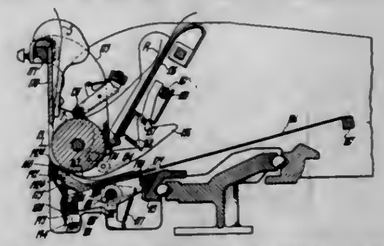
1. A carbon holder for use with continuous-form stationery comprising: a base member provided with a pair of spaced upwardly extending posts; a pair of spacer members mounted on said base member between said posts, each of said spacer members having forwardly open spaced slots; a plurality of carbon blades, each adapted to be pivotally mounted on one of said posts and swung into a spacer-member slot; and a releasable closure member at the front of each of the spacer members adapted to lock said carbon blades in the slots.

2,639,019

FRONT FEED CARRIAGE FOR ACCOUNTING MACHINES

Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 22, 1949, Serial No. 134,537
5 Claims. (Cl. 197—128)



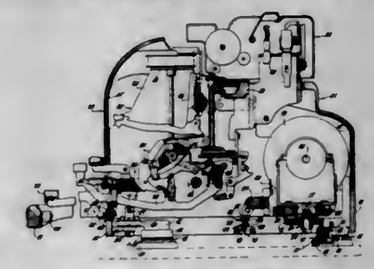
1. In a business machine, a platen roller, a series of feed-rolls bearing against the underside of the platen, means to support said feed-rolls, comprising arms wherein the feed-rolls turn, said arms being supported at the rear of the rolls and being tapered closely to the platen in front of the feed-rolls, and a series of sheet-clamping elements engageable with said arms, means for resiliently pressing said clamping elements individually into engagement with said arms, and means operable to effect release of said clamping elements.

2,639,020

CONTROLLED NOISE-REDUCTION MEANS FOR TYPEWRITERS

Charles Schroder, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 23, 1949, Serial No. 134,703
11 Claims. (Cl. 197—186)

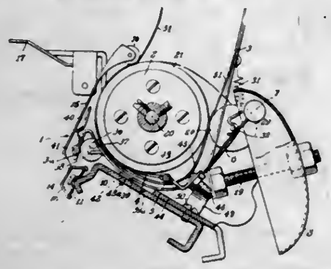


1. A machine of the class described comprising a base constituting an integral part of the machine proper and adapted to rest on a platform, a mask supported from said base, a skeleton frame within said mask having mounted thereon a platen-carriage and a set of type bars, and means mounting the frame on the base comprising a plurality of sound-deadening diaphragms which hold the frame otherwise normally generally spaced from the base and the mask.

6. A typewriter comprising a substantially horizontal base provided with a plurality of rubber feet, said base being also provided with a plurality of rubber-in-shear diaphragms, a frame carrying type bars and other operating parts of a typewriter, said frame being mounted on said diaphragms with a capability of vibratory move-

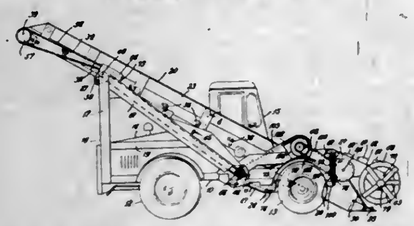
ment relatively to said base, and means for limiting the amplitude of vibratory movement to less than the maximum permitted by said diaphragms.

2,639,021
TYPEWRITER WARNING DEVICE
David B. Brannen, Tucson, Ariz.
Application September 27, 1949, Serial No. 118,081
3 Claims. (Cl. 197—189)



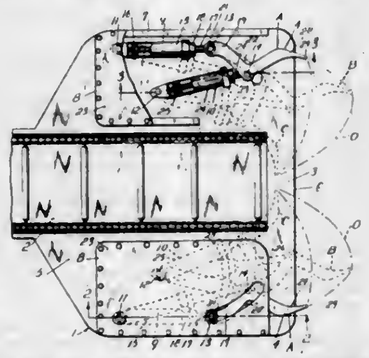
1. In a typewriter having a carriage frame, a platen and first and second paper guide rollers, a paper page end warning device comprising a warning bell, a paper engaging lever having an end directed towards the forward side of the platen, a mounting rod supported by the carriage frame for the paper engaging lever, actuating means for the warning bell responsive to movement of the paper engaging lever, and a paper guide having a slot in juxtaposition to the end of the paper engaging lever, the paper guide being turned away from the platen to provide a recess therewith in tangential alignment with the direction of the paper as it passes between the platen and the first paper guide roller, the mounting rod being interposed between the paper guide and the platen at a position between the recess and the second paper guide roller so that the paper is guided outside the rod away from the platen and tensioned between said rod and said paper guide roller to urge the paper engaging lever end out of the slot, the paper engaging lever being thereafter released by the end of the paper to reenter the slot to actuate the warning bell.

2,639,022
POWER ACTUATED CONVEYER TYPE LOADER
Raymore D. MacDonald, La Grange, Ill., assignor to Athey Products Corporation, Chicago, Ill., a corporation of Illinois
Application February 5, 1949, Serial No. 74,743
3 Claims. (Cl. 198—9)



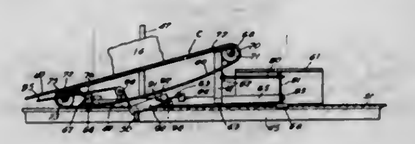
2. In a loader, the combination comprising a main chassis, an elevating conveyor mounted for swinging movement about one end on the main chassis and sloping downward from said one end, a feeder conveyor positioned over the lower end of the elevating conveyor, a carrier for the feeder conveyor extending beyond one end of the feeder conveyor, means providing a swinging mounting of a region of the carrier beyond the said one end of the feeder conveyor on the main chassis below the elevating conveyor, and means connecting the carrier adjacent the said one end of the feeding conveyor and the main chassis below the last mentioned region so as to provide adjustable and floating support of the feeding conveyor, the last mentioned means comprising telescoping cylinders having flanges, a spring acting between the flanges to make the feeder conveyor and its carrier float on the main chassis, and a piston slidable in one of the cylinders so as to cooperate therewith to form an hydraulic device to adjust the feeder conveyor and its carrier on the main chassis.

2,639,023
LOADING MACHINE
Ross H. Goodrich, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application March 26, 1946, Serial No. 657,107
1 Claim. (Cl. 198—10)



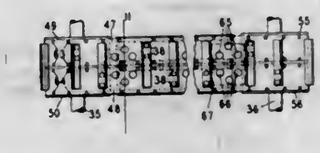
In a loading machine having a gathering and loading head provided with an inclined deck, a gathering arm movable bodily forwardly relative to said deck in planes parallel with the latter to effect penetration of the material to be loaded and swingable laterally and rearwardly in said planes to load the material rearwardly onto said deck, a guideway for said arm on said deck, a guide for said arm movable along said guideway and to which said arm is pivotally connected, fluid cylinders on said deck and pivotally connected to said arm and simultaneously operable to effect bodily movement of said arm along said guideway thereby to effect penetration of the material, said arm when it reaches the forward end of said guideway being prevented from farther forward bodily movement, one of said fluid cylinders then being operable while the other cylinder remains stationary thereby to effect swinging of said arm about its pivotal connection with said guide while the latter is held in engagement with the forward end of said guideway, said other fluid cylinder thereafter being operable to effect movement of said arm rearwardly along said guideway into its initial retracted position with respect to said deck, and control valve means for controlling fluid flow to and from said fluid cylinders for effecting operation of said fluid cylinders in the definite sequence aforementioned, said control valve means having power actuating means and means for coordinating the motion of said valve means with the arm-movement so that said arm is moved to effect penetration and loading of the material as aforementioned.

2,639,024
CONVEYER
Paul Kneer, Monica, Ill.
Application February 27, 1948, Serial No. 11,372
5 Claims. (Cl. 198—89)



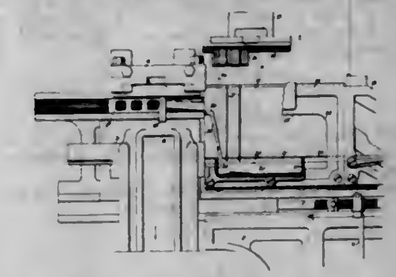
1. In a device of the class described a horizontal rail, a stationary element attached to said rail, an endless moving chain supported on the top of said rail, a conveyor assembly having a frame movably mounted on said rail, a pivoted latch member carried by said frame, means on said latch for engaging said stationary element in one rotative position to prevent movement of said assembly, and a projection on said latch for engaging said moving chain in a second rotative position of the latch to lock said assembly to said chain and move it with respect to said rail.

2,639,025
NONCREEPING METALLIC BELT
Frank R. Schmitt, Queens Village, N. Y.
Application May 22, 1947, Serial No. 749,681
7 Claims. (Cl. 198—184)



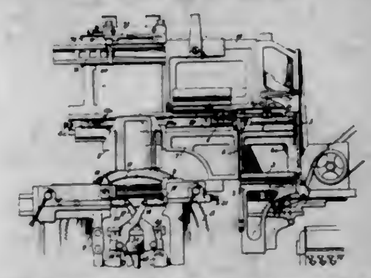
4. A conveyor system comprising a vacuum box open at the upper end, said vacuum box being sub-divided into separate compartments, each of said compartments being adapted to be maintained at a pressure below atmospheric, a flexible metallic duplex belt comprising two interdependent sections, said belt being mounted to move across and seal the mouth of said vacuum box, flights secured to said sections to form conveyor pockets, alternate flights being separately secured to the same section of said duplex belt, said adjacent sections of said belt being relatively movable to vary the size of said pockets, each section of said belt having groups of holes formed therein at spaced intervals between flights, said holes being arranged in accordance with a predetermined pattern so that relative movement of the flights seals off the holes which are thereby rendered ineffective, and said vacuum box compartments being separately operable to reduce the pressure beneath successive groups of holes in one or the other of said sections of belt below atmospheric pressure.

2,639,026
TYPOGRAPHICAL DISTRIBUTING MACHINE
Frederick Hahn, San Francisco, Calif., assignor to Mergenthaler Linotype Company, a corporation of New York
Application October 26, 1949, Serial No. 123,586
9 Claims. (Cl. 199—36)



1. In a typographical distributing machine equipped with an upper transfer channel formed at the top throughout its length with a pair of horizontally disposed rails to support and guide spacebands by their projecting ears for return to their storage magazine and means for shifting endwise into said channel composed lines containing hair spaces, said hair spaces being free for lack of support to drop from the composed lines down through the channel for discharge therefrom, the combination of a quad box or tray arranged to receive the hair spaces as they are discharged from the channel, and downwardly inclined guide means located in the channel at the entrance end thereof and below the level of the lower ends of the hair spaces as they enter the channel, said inclined guide means being positioned to intercept hair spaces dropping through the channel from terminal positions in the composed lines and deflect the hair spaces endwise at a corresponding inclination into position for discharge into the quad box or tray.

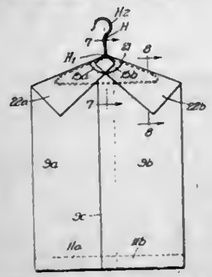
2,639,027
TYPOGRAPHICAL CASTING MACHINE
Ransom H. Turner, Great Neck, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application March 11, 1949, Serial No. 80,887
22 Claims. (Cl. 199—50)



1. In a slug casting machine equipped with a vertically movable line transporter and a horizontally reciprocable slide for delivering composed lines to the transporter, the combination of a pair of line clamping jaws, each movable independently toward the other for quadding and both movable in unison toward each other for

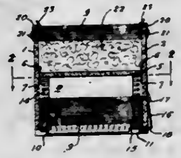
centering, mechanism to effect such quadding or centering movement of the jaws, means to condition said mechanism for a quadding or centering operation, adjustable devices carried by the line transporter and adapted during its downward movement to actuate the conditioning mechanism for a quadding or centering operation, and pre-settable means carried by the line delivery slide for effecting the required adjustment of the actuating devices as a composed line is delivered to the transporter.

2,639,028
GARMENT BAG
Walter Stern, Chicago, Ill., assignor to The Cromwell Paper Company, Chicago, Ill., a corporation of Illinois
Application November 3, 1949, Serial No. 125,215
5 Claims. (Cl. 206—7)



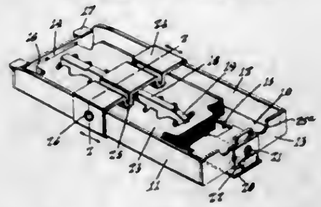
1. A garment bag of the character described, comprising front and rear panels joined at their sides, one panel having an integral flap projecting beyond one end of said panels and having adhesive thereon, said flap having a slit therethrough extending centrally and longitudinally of said panels from the free edge of said flap, said flap having oppositely disposed arcuate slits therein spaced from and on opposite sides of said longitudinal slit, the portions of the bag adjacent said flap to either side of said arcuate slits being adapted to be folded on inclined lines to bring the portions of said flap on opposite sides of said arcuate slits into engagement with the other of said panels to close one end of said bag except for a central portion thereof forming an opening for the passage of the hook of a hanger, the portions of said flap between said central slit and each of said arcuate slits being adapted to be individually folded around the shank of the hanger and into engagement with said other of said panels to seal said one end of the bag around the shank of the hanger.

2,639,029
RAZOR BLADE MAGAZINE
James M. Austin, Old Westbury, N. Y.
Application October 15, 1948, Serial No. 54,617
1 Claim. (Cl. 206—16)



A razor blade magazine comprising an open ended box, a central rib for slidably holding a stack of razor blades by means of central apertures therein, a supporting ledge formed on the lower end of the rib for extending under the bottom blade of the stack adjacent one end of the central aperture thereof, a supporting ledge on the box positioned to extend under the opposite end of the blade, spring means for pressing a stack of blades carried by the said rib downwardly onto the said supporting ledges and an ejector positioned for sliding the lowermost blade of the stack held on the rib longitudinally of the rib and off the ledges so that it may be dropped into a razor.

2,639,030
REFILL UNIT FOR BLADE MAGAZINES
Joseph Muros, Cambridge, Mass., assignor to The Gillette Company, a corporation of Delaware
Application February 25, 1947, Serial No. 730,841
4 Claims. (Cl. 206—16)



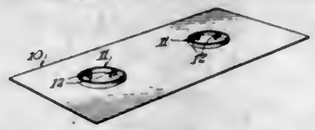
2. A refill unit for safety razor blades comprising an elongated shell having a bottom, front and rear walls, an internal rib upstanding from said bottom wall, a stack of slotted blades threaded on said rib, a hold-down keeper slidable on said shell and having downwardly-extending ribs normally engaging the blade stack, the said rear wall of said shell being apertured to permit the passage there-through of the ribs of the keeper.

2,639,031
DEVICE FOR SEVERING ROLLED MATERIALS
Paul E. Fuchs, Colorado Springs, Colo.
Application July 28, 1947, Serial No. 764,054
2 Claims. (Cl. 206—59)



1. The combination with a spool and a roll of material on the spool, of a hub member mounted in one end of said spool having a hub plate including a central spool-engaging portion and an offset peripheral flange engaging one side of the spool and terminating substantially at the juncture of the spool and roll of material, and a cutter hub member positioned in the opposite end of said spool having a central spool-engaging portion and an offset peripheral flange of greater diameter than the first-named offset peripheral flange, said second offset peripheral flange extending to the juncture of the spool and roll of material and having an outer integral portion lying flatwise against the adjacent surface of the roll of material, said flange of greater diameter terminating in a circumferential portion beyond the outer surface of the roll of material and having a cutting edge for severing material of the roll.

2,639,032
SEPARATOR MEMBER FOR USE IN PACKING ARTICLES FOR SHIPMENT
Larry J. Budd, Chicago, Ill., assignor to Pallet Devices, Inc., Melrose Park, Ill., a corporation of Illinois
Application January 17, 1949, Serial No. 71,235
1 Claim. (Cl. 206—65)



In a package of spaced bowed articles arranged in generally parallel form and each having a peripheral flange projecting laterally from an outer surface of the article, a separator for disposition between the articles comprising a sheet-like member having attached to one face thereof a plurality of annular spacers in contact with an inner surface of an article inside its peripheral flange and said member having its marginal portion on said same face in engagement with the flange of the article, the other face of the member being in contact with the other and adjoining article, said member being flexibly formed into a bowed shape corresponding to the bowed shape of the articles and being snugly and tightly fitted into the space between the bowed articles.

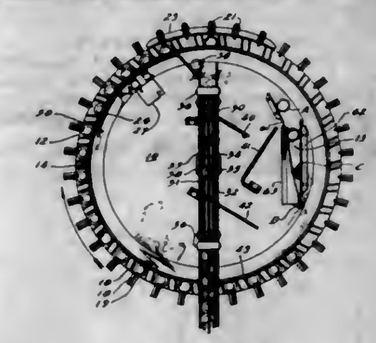
2,639,033
DISPLAY TRAY
William G. Michaelsen, Charles W. Michaelsen, William H. Gerbode, and Lawrence E. Dolan, Rockford, Ill., assignors to Rockford Show Case & Fixture Co., Rockford, Ill., a corporation of Illinois
Application February 12, 1951, Serial No. 210,543
10 Claims. (Cl. 206—72)



7. A display tray comprising a base of rectangular form made from a single piece of sheet metal, the opposite ends of which are bent upwardly to define end walls, one of which has an inwardly projecting top portion, an article-receiving display rack of rectangular form disposed on said base and having one end portion engaged under the inwardly projecting top portion of the base, said inwardly projecting top portion having a downwardly projecting flange on the edge portion thereof, and a channelled protective covering strip enclosing the edge of said flange in the channel thereof.

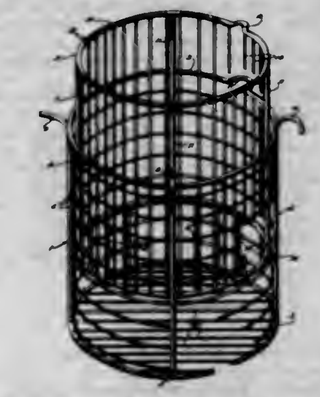
2,639,034
CUP ORIENTING DEVICE
Henry W. Roeber, Emporium, Pa., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application April 30, 1948, Serial No. 24,212
3 Claims. (Cl. 209—72)

1. An article handling arrangement adapted to deliver cup shaped articles into a dispensing chute and including a tilted reservoir having an upstanding rim rotatable in an orbit around a stationary plate, said rim including a number of article receiving chambers, the side walls of said chambers being skewed so that articles picked up by said chambers at the lower portion of said orbit are not released until said chambers substantially reach the top of said orbit and a dispensing chute having its floor merging with said plate at its upper end and passing over said rim at the lower part of said orbit, a cup-engaging finger individual to each of said chambers, a



cam at the top portion of the orbit of said rim for moving said fingers so that they enter the hollow of those of said articles which have their hollow sides up, said chute being adapted to receive articles released from said chambers at the top of said orbit, said cam thereafter releasing said fingers whereby the held cups are released into said reservoir and means for retarding the fall across said disc of said articles.

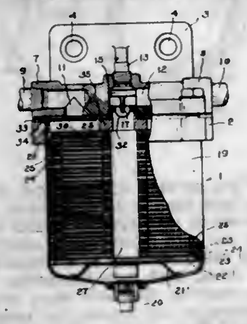
2,639,035
SIFTING AND STRAINING DEVICE
Joseph Pearlstein, Arlington, Va.
Application October 22, 1947, Serial No. 781,376
1 Claim. (Cl. 210—169)



As an article of manufacture, a strainer and sifter comprising a first right cylindrical unit, a second conjoinable right cylindrical unit adapted to fit snugly within said first right cylindrical unit, said units being open at one end, the other end of each of said units being formed of a plurality of parallel elongated elements, means forming the cylindrical surface of one of said units of parallel elongated elements running peripherally of the cylindrical surface thereof, means forming the cylindrical surface of the

other of said units of parallel elongated elements running along generating elements of said cylindrical surface of the other of said elements, and means enforcing mutual orientation of said units, when conjoined, with the elongated elements forming the ends of said units in mutually perpendicular relation.

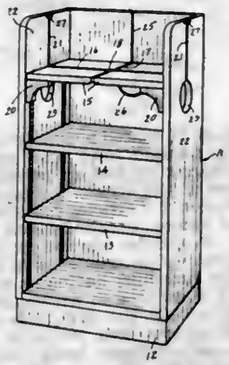
2,639,036
FILTERING APPARATUS
John N. Humber, North Wilbraham, Hans Hogeman, Longmeadow, and Paul G. Burman, Springfield, Mass., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application February 19, 1949, Serial No. 77,404
4 Claims. (Cl. 210—185)



1. In a device of the character described, a supporting ring, a hollow sealed cartridge container having a peripheral flange adjacent its upper end and substantially parallel with the adjacent upper surface of the container, said container having a filtering element therein, said container being adapted to be positioned within said supporting ring with said peripheral flange positioned on the upper surface of said ring for supporting said container, a bracket member adapted to be supported on said ring and overlying said flange on said container, said bracket having means for attachment thereof to a support and having fittings for connection to the oil supply and delivery lines, said container having a projecting portion on its upper surface adapted to extend into said fitting for said delivery line, said bracket having projections aligned with said supply and delivery fittings adapted to displace portions of the adjacent side of said container to establish communication through the upper surface of said container to said oil supply line and through said projecting portion to said delivery line and means for connecting said bracket to said ring.

2,639,037
STORAGE AND BALER CABINET
Benjamin R. Friend, Indianapolis, Ind.
Application July 3, 1950, Serial No. 171,897
1 Claim. (Cl. 211—50)

A baler comprising spaced parallel end walls, a back wall connecting said end walls, supporting shelves disposed below the upper edges of said end and back walls extending from one of said end walls toward the other end wall and two of said shelves being contiguous at one longitudinal edge with said back wall, said shelves having spaced longitudinal edges defining a first slot extending the entire thickness thereof and throughout the length thereof and from end to end and parallel to the outer longitudinal edges thereof, said shelves also having spaced lateral edges defining a second slot extending throughout the width thereof and intersecting said first slot, said end and back walls having slots extending the entire thickness thereof and from their upper edges past and beyond said shelves, said latter slots communicating with said first and second



slots, and said end and back walls having enlarged receiving openings for the human hand extending therethrough below said shelves and which open into lower ends of said end and back wall slots respectively, whereby a bundle supported on said shelves may be longitudinally and laterally overwrapped without interference by the baler structure.

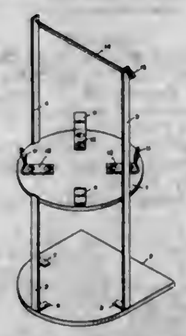
2,639,038
MEAT KNIFE HOLDER
Norman A. Merritt, Wilmington, N. C.
Application January 10, 1952, Serial No. 265,884
4 Claims. (Cl. 211—60)



1. A meat knife holder to be detachably mounted on a meat block, comprising a back skirt board, a pair of brackets secured in spaced apart relation on said skirt, a knife rack detachably supported on said brackets, a guard board detachably mounted on said brackets.

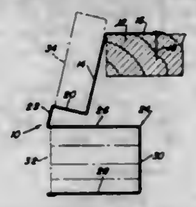
2,639,039
SUPPORT FOR ICE-CREAM CONTAINERS AND THE LIKE
William A. Daniels, Seven Hills Village, Ohio
Application December 17, 1948, Serial No. 65,781
2 Claims. (Cl. 211—71)

1. A device for supporting bulk ice cream containers in a freezing cabinet comprising spaced, upper and lower shelves each adapted to support a container thereon, and the lower shelf adapted to non-rotatably fit within a freezing compartment and serve as a supporting base for the entire device; vertical members between said shelves fixedly securing said shelves in spaced relation; a pair of said members diametrically opposed extending upwardly above said upper



shelf, said pair of members each provided at its upper end with an upwardly inclined slot open at the lower end, and a flat pry bar having its opposite ends removably fitted into such slots, said flat pry bar having transversely bent ends beyond said pair of members for longitudinally retaining said bar in engagement with such slots.

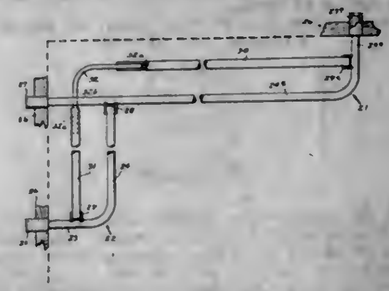
2,639,040
RACK ATTACHMENT FOR SHELVES
Emmett E. Tapley, Las Vegas, N. Mex.
Application August 1, 1951, Serial No. 239,752
2 Claims. (Cl. 211—86)



1. A rack attachment for shelves, comprising a rearwardly inclined panel adapted at its upper edge for securing to a shelf, a forwardly inclined article supporting ledge provided at the lower edge of said panel, a downturned flange provided at the forward edge of said ledge, and a substantially U-shaped extension provided at the lower edge of said flange and including vertically spaced upper and lower walls and a back wall connecting the same together, the lower wall of said extension affording a second article supporting ledge.

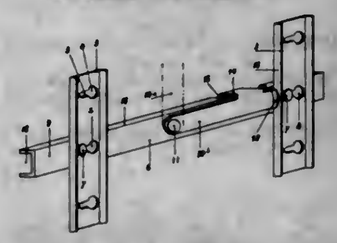
2,639,041
CURTAIN AND DRAPE SUPPORT
Joseph M. Davis, Tacoma, Wash.
Application November 7, 1949, Serial No. 125,885
4 Claims. (Cl. 211—123)

1. A curtain and drape support comprising a pair of substantially L-shaped rods each forming a support arm and a drape guide arm, means for interconnecting the guide arms, bracket means mounted intermediate the ends of each support arm and extending in the direction of the corresponding guide arm, a pair of curtain rods each proportioned and arranged to be mounted detach-



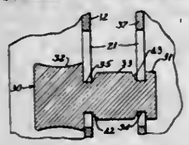
ably at one of its ends on one of said support arm brackets and to extend in spaced relation with said guide arms, and bar means telescopically interconnecting the free adjacent ends of said curtain rods.

2,639,042
SLIDING SHELF OR DRAWER SUPPORT
Henri Jacques Marc Lambert, Sevres, and Georges Paul Mongin, St-Gratien, France
Application April 13, 1949, Serial No. 87,172
In France February 23, 1949
2 Claims. (Cl. 211—147)



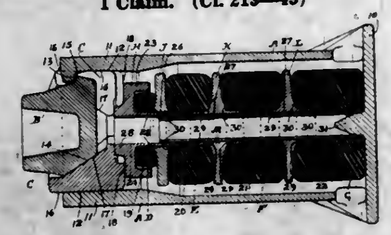
1. A support for sliding shelves, drawers and the like comprising spaced, vertical and horizontal members substantially perpendicular to one another and joined together, the vertical members being spaced from one another and having spaced, aligned keyhole slots along their lengths, the elongated portion of said slots extending forwardly and being substantially perpendicular to the longitudinal axis of said vertical members, each horizontal member having a spaced, headed stud adjacent each end, said studs being engageable with said keyhole slots and lockable therewith upon movement of said horizontal member in a forward direction to position said studs in the elongated portion of said slots, each horizontal member having a recess formed in its upper surface adjacent one end, a locking lever pivoted on said horizontal member between said vertical members, said lever having a laterally extending lug which is accessible through said recess when the lever is in locking position, said lever having at its free end a lug extending in a direction opposite to that of said first lug, said end lug being frictionally engageable with the adjacent vertical member to lock said vertical and horizontal members against relative movement.

2,639,043
SHELF ATTACHING AND SUPPORTING MEANS
Thomas M. Dunham, Batavia, Ill., assignor to Aurora Equipment Company, Aurora, Ill., a corporation of Illinois
Application April 17, 1946, Serial No. 662,847
3 Claims. (Cl. 211—147)



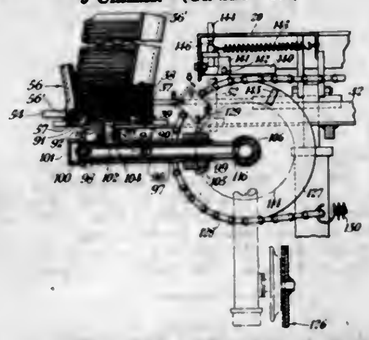
2. In combination, shelving units each having shelf-supporting members provided with aligned sets of spaced key-hole shaped openings having converging margins and capable of inter-registration, and attaching means insertable into registered openings in said shelf-supporting members to fixedly position said shelving units in spaced relation by friction camming engagement with said converging margins of said key-hole shaped openings, each of said attaching means having spaced heads of unequal size and an intermediate shank portion having spaced frusto-conical oppositely directed tapered portions adjacent said heads, respectively, for frictional camming engagement with the margins of said openings, said attaching means including reduced diameter necks between the tapered portions and the heads.

2,639,044
FRICTION SHOCK ABSORBER FOR RAILWAY DRAFT RIGGINGS
Harry W. Mulcahy, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application March 30, 1950, Serial No. 152,795
1 Claim. (Cl. 213—45)



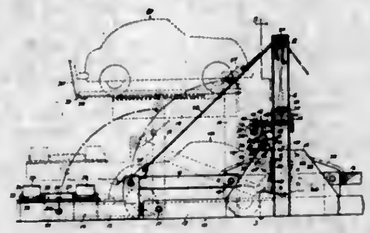
In a shock absorbing mechanism, the combination with a tubular casing closed at one end and open at the other end; of a follower slidable within the open end of said casing, said follower having a rearwardly projecting central boss thereon, said follower having a lengthwise disposed central bore extending therethrough and through said boss thereof; yielding means within the casing bearing at its front end on said follower and at its rear end on said closed end of the casing, said yielding means including a plurality of rubber blocks arranged in series, and spacing members alternated with said blocks, said blocks and spacing members having longitudinally aligned central bores, the boss of said follower extending into and slidingly fitting within the bore of the spacing member adjacent thereto; a centrally disposed tubular centering member projecting into the bore of the boss of said follower, said centering member extending through and snugly fitting the bores of said blocks and the bores of the spacing members which are beyond the spacing member adjacent said follower; and a tapered centering boss on said casing at said closed end thereof fitting within the corresponding end of the tubular centering member.

2,639,045
AUTOMATIC WARE DEALING AND TRANSFERRING APPARATUS
Albert J. Wahl, Brocton, N. Y., assignor to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania
Original application October 23, 1946, Serial No. 705,143. Divided and this application July 20, 1948, Serial No. 39,639
9 Claims. (Cl. 214—8.5)



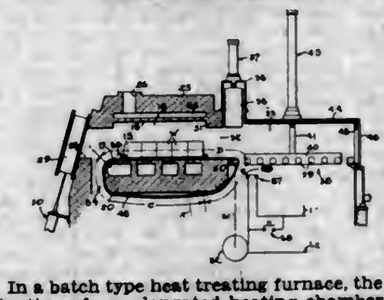
3. A dealer for supporting a bung of dinnerware operable to release a piece of ware at a time from the bottom of the bung comprising, a pair of grippers arranged to grip between them some of the lower components of the bung and means for moving one of the grippers relative to the other to apply and relax a gripping pressure on the bung, the bottom sections of said grippers being outwardly flared a sufficient amount to exert less pressure on the lowermost piece of ware than is exerted by the grippers on the pieces of ware above said lowermost piece.

2,639,046
AUTOMOBILE PARKING DEVICE
Charles Magar Tatosian, New York, N. Y.
Application April 29, 1949, Serial No. 90,368
1 Claim. (Cl. 214—16.1)



A vehicle parking device comprising a frame structure, a platform connected to said frame structure, a vehicle cradle turnably mounted on said platform, said cradle adapted to turn through at least 90°, a plurality of radial arms pivotally connected at opposite ends to said platform and frame structure, electro-mechanical means to raise and lower said platform in an arcuate path while maintaining said platform horizontal during such movement, said electro-mechanical means including an electric motor, a clutch and a clutch fork, said electric motor and clutch fork each being operatively connected to said clutch, and an automatic stop arm engaging said clutch fork and pivotally mounted on one of said radial arms and so disposed that after a predetermined movement of said radial arm said stop arm actuates said clutch fork which in turn disengages the clutch.

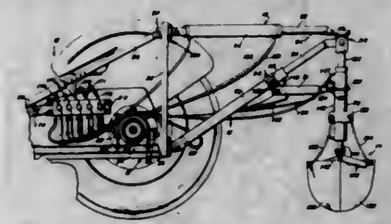
2,639,047
CONVEYER APPARATUS FOR HEAT-TREATING METAL PARTS
Harold N. Ipsen, Rockford, Ill.
Application February 2, 1950, Serial No. 142,326
1 Claim. (Cl. 214—21)



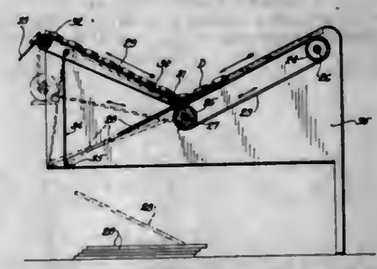
In a batch type heat treating furnace, the combination of, an elongated heating chamber having an outlet opening at one end through which heated work may be removed, an endless flexible chain supported for endwise movement longitudinally through said chamber and said opening and adapted to pass freely beneath the work disposed in the chamber, said chain having a heated section disposed within the chamber and a cooler section disposed outside of the latter during heating of the work therein while the chain is dwelling in a normal rest position, a sprocket meshing with said chain outside of said chamber and operable during turning of the sprocket in one direction to move said heated section past the work and said cooler chain section away from its normal rest position and toward and through said chamber and said opening, and a single abutment projecting outwardly from said cooler chain section and operable after advance of said cooler chain section through said heating chamber and into mesh with said sprocket to engage the work in said chamber and advance the same out of the chamber through said opening, said abutment being positioned on said cooler section to follow behind the trailing end of said heated chain section before engagement with the work in said chamber a distance at least as long as said heating chamber whereby only said cooler chain section is disposed between said lug and said sprocket during actual movement of the work out of said heating chamber.

2,639,048
FLUID PRESSURE ACTUATED ARTICULATED BOOM
Frank L. Glashaw, St. Ignace, Mich.
Application September 22, 1950, Serial No. 186,291
1 Claim. (Cl. 214—147)

A fluid actuated tool carrying apparatus comprising a frame adjustably mounted on a vehicle, three fluid cylinders hingedly mounted on said frame in spaced apart relation, a plunger in each of said cylinders, the outer ends of said plungers being connected to a common hinge joint, a tool support mounted on said common hinge joint, a fourth cylinder, a plunger in said fourth cylinder, said fourth cylinder and plunger being connected between said tool support and one of said three cylinders, a source of fluid pressure, fluid conduits connected to each end of each cylinder, a control valve for each cylinder, said control valves selectively applying fluid to said cylinders to control said tool support.

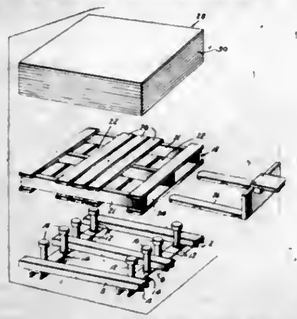


2,639,049
DOUGHNUT HANDLING APPARATUS
Joseph Kinselman, Northbrook, and Frank A. Anetsberger, Chicago, Ill., assignors to Anetsberger Bros., Inc., Northbrook, Ill., a corporation of Illinois
Application October 28, 1949, Serial No. 124,171
1 Claim. (Cl. 214—310)



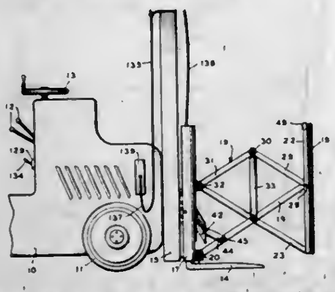
Apparatus for transferring uncooked bakery articles such as doughnuts from trays comprising a driven endless carrier means for the trays the upper run of which is inclined in the direction of travel thereof, an endless driven conveyor belt having the upper run disposed at an obtuse angle with respect to the upper run of the carrier means and moving in a direction away from the carrier means, a member around which the lower end of the conveyor belt passes, said member being shaped and located for causing the upper and lower runs of the belt to form an acute angle with the apex thereof disposed closely adjacent the plane of the upper surface of a tray moving on said carrier means whereby the apex of the belt engages the advancing ends of the articles on the tray and effects transfer of the same to the conveyor belt as the tray moves beneath said apex, and means for engaging the advancing end portion of a tray as the same moves beyond said apex of the belt for retaining the tray against gravitational displacement from the plane of the upper run of the carrier means as the rear portion of the tray moves under said apex.

2,639,050
PALLETIZING SUPPORT
George A. Hoffmann, Jr., Richmond, Va.
Application May 14, 1952, Serial No. 287,767
10 Claims. (Cl. 214—310)



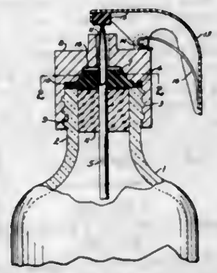
1. In combination, a pallet having a plurality of spaced passages extending vertically therethrough, and a pallet support comprising a base having pallet supporting surfaces thereon and a plurality of spaced upstanding post-like members affixed to and extending upwardly from said base, said post-like members registering with and extending through the passages through said pallet and having their upper ends extending above said pallet when the latter is supported on said base, whereby to support a pallet load spaced above said pallet.

2,639,051
PALLET STACK UNLOADER
Julian B. Thomas, Fort Worth, Tex.
Application April 16, 1948, Serial No. 21,536
31 Claims. (Cl. 214—514)



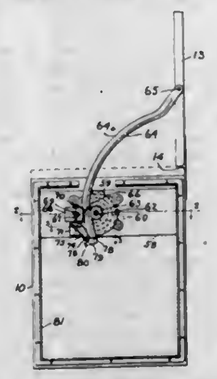
1. For use with a commercial lift truck having vertical rails secured to the front of said truck, a carriage slidably mounted for vertical movement on said rails and pallet engaging forks secured to said carriage, an unloading device comprising upstanding members secured to said carriage, a load engaging member, a plurality of links connecting said load engaging member and said upstanding members, certain of said links being slidably mounted on said upstanding members and others of said links being pivotally mounted thereon, said links being constructed and arranged to restrain movement of said load engaging member to substantially a straight line while maintaining said load engaging member in a vertical position substantially parallel to said upstanding members, power actuating means for said load engaging member comprising a pair of pressure cylinders, pistons and piston rods slidably received in said cylinders, means connecting the outer ends of said piston rods with certain of said links, means for introducing fluid pressure to the upper portion of said cylinders to move said piston rods outwardly therefrom, said movement resulting in extension of said load engaging member, and means for introducing fluid pressure to the lower portion of said cylinders to move said piston rods inwardly, said inward movement resulting in retraction of said load engaging member, pallet gripping means disposed between said pallet engaging forks, said gripping means comprising a pair of opposed jaws slidably mounted on a portion of said carriage, a fluid pressure cylinder having a piston slidably received therein, a pair of links pivotally connected to said piston, said links being also pivotally connected to a second pair of links pivotally mounted from said cylinder and the opposite ends of said second pair of links being pivotally connected to said jaws, a third pair of links pivotally mounted from said cylinder and secured at their opposite ends to said jaws, said second and third pairs of links thus providing a floating support for said cylinder on said jaws, said second pair of links serving to transmit motion from said piston to said jaws for movement toward and away from each other, whereby upon introduction of fluid pressure to said cylinder said jaws will engage and grip a portion of said pallet thus preventing movement thereof relative to said forks, the floating mounting of said cylinder permitting engagement of said jaws with said pallet portion, regardless of any misalignment thereof, a source of fluid pressure on said unloading device and means on said truck comprising a switch for controlling the operation of said fluid pressure source and for controlling a solenoid valve whereby fluid pressure is simultaneously introduced to said pressure cylinders and said pressure cylinder associated with said gripping means whereby said pallet is restrained against movement during actuation of said load engaging member to eject a load from said pallet and whereby said switch may be operated for retracting said load engaging member and to release said gripping means.

2,639,052
MEANS FOR DISPENSING LIQUIDS
Charles Lewis Gebauer, Shaker Heights, and Thomas Shimrock, Cleveland, Ohio; said Shimrock assignor to said Gebauer
Application August 3, 1948, Serial No. 42,325
1 Claim. (Cl. 215—73)



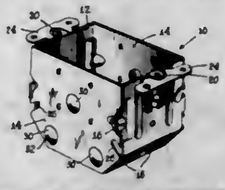
A dispensing device for volatile liquids comprising a container for the liquid having a reduced area discharge neck provided therein, a cork tightly positioned in the discharge neck of said container, a capillary tube extending through said cork and protruding axially beyond said neck, a resilient sealing disc positioned on the outer surface of said cork and covering the end of said discharge neck, said disc having a boss formed on only the center portion thereof, and a sealing cap having an axially inwardly directed annular rib thereon, said sealing cap being engaged with said discharge neck with said annular rib forcing an outer edge portion of said disc into engagement with said neck, said boss having said tube extend therethrough, the peripheral edge of said sealing disc being radially spaced from said cap, said boss being of frusto-conical shape and said cap having a recess of complementary shape to but axially longer than said boss formed therein tightly receiving said boss in the axially inner part thereof to provide a second sealing zone in the device for permitting distortion of said boss with attendant increased axial compression of said boss against said tube, the recess in said cap terminating in a shoulder adjacent the axially outer end of said boss to prevent excessive distortion of said boss, said capillary tube extending beyond the upper portion of said sealing disc to provide additional length of said tube for engagement by said sealing disc when compressed and distorted.

2,639,053
SPRING COUNTERBALANCING MEANS FOR THE COVERS OF CABINETS
Charles B. Ulrich, Jamestown, N. Y.
Application January 27, 1950, Serial No. 140,895
4 Claims. (Cl. 217—60)



1. Means for counterbalancing the hinged covers of cabinets, including a cabinet having enclosing side walls and an open upper end, a cover hinged at one edge to one of said walls and movable to open and close said upper end, a link pivotally connected at its upper end with said cover and extending downwardly therefrom adjacent one of said side walls, spring means connected with the lower portion of said link and stressed by closing movement of said cover, said link having rack teeth in one of its surfaces, and said spring means including a spiral spring held at one end by a fixed support, and a gear secured to the other end of said spring and meshing with said rack teeth, the toothed surface of said link having a longitudinal curvature, a roller engaging a surface of said link opposed to said toothed surface and holding said rack teeth in mesh with said gear, said roller having a bearing rod projecting from its ends, a U-shaped bearing member with slots in its side legs supporting the ends of said bearing rod, said slots extending away from said link and having a length substantially greater than the diameter of said bearing rod, and movable means holding said bearing rod in a position in said slots effecting a meshing engagement of said rack teeth with said gear, whereby moving said movable means to rod-releasing position permits moving said rack teeth from engagement with said gear for spring adjusting purposes.

2,639,054
ELECTRICAL OUTLET BOX
Merritt B. Austin, Jr., Deerfield, Ill.
Application June 27, 1950, Serial No. 170,534
2 Claims. (Cl. 220—3.92)



1. An electrical wiring accessory comprising an open-sided sectional sheet metal box including a C-shaped spacer member and a pair of removable sides closing opposite ends of said spacer member; means for retaining said sides on said spacer, including integral tabs, one extending beyond each of said sides, said sides having aligned openings for receiving fasteners to be driven from one side of the box into a support member which is adjacent the other side; and three spaced blunt spacing projections located within the edges of and extending outwardly from said other side, the tips thereof lying in a plane perpendicular to the open side and spacing the said other side sufficiently from the surface of a supporting member to prevent misaligning interference of the corresponding tab with the portion of the surface on which the box is mounted, said projections having convergently inclined sides and having extremities of substantially reduced area adapted for slight anchoring embedment in the supporting surface when the same is of usual wood studding material, and forming a triangular support for the box with one altitude of the triangle passing through the plane of the fasteners whereby rocking of the box is substantially prevented after the fasteners are driven home.

2,639,055
ASH RECEIVER WITH MOUNTING PLATE
Eric Swen Carlson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 1, 1947, Serial No. 745,355
1 Claim. (Cl. 220—18)

The combination with a mounting plate of an ash receiver having a front, back, sides, bottom, and top, said top having an ash receiving opening and a lid for closing said opening, and means for detachably supporting said ash receiver on said mounting plate including transversely spaced openings in said plate adjacent the lower edge thereof, tongues projecting rearwardly from said receiver back adjacent the lower edge thereof and extending inwardly and downwardly through the openings in said plate, said receiver back having

an opening adjacent the upper edge thereof, and a spring latch which is normally concealed by said lid having one end thereof secured to said plate adjacent the upper edge thereof and extending through said receiver back opening and releasably engaging the lower edge of said receiver back opening to exert a downward and inward pressure on said receiver to normally prevent movement of said receiver in a direction to disengage said tongues from said plate and accessible for manual release through said ash receiving opening when said lid is in open position.

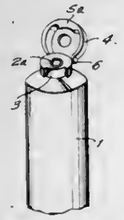


2,639,056

ATTACHED CLOSURE FOR CONTAINERS

Willi Gräbner, Zell on the Mosel, Germany, assignor to Dr. Lucas & Co., Zell on the Mosel, Germany

Application October 18, 1950, Serial No. 190,772
In Germany October 31, 1949
4 Claims. (Cl. 220—30.5)



2. A closure comprising in combination, a cylindrical holding member having a transversal bottom face and a transversal top face and formed with an axial bore extending between said top face and said bottom face for receiving the neck portion of a container, said cylindrical holding member being formed with a cutout extending through the cylindrical outer surface thereof from said top face to said bottom face, said holding member being further formed with a groove in said bottom face thereof, said groove being concentric with said cylindrical surface and having two ends opening into said cutout, said groove having two portions of varying depth, one of said portions of said groove gradually decreasing its depth from one of said ends of said groove, and the other portion of said groove gradually increasing its depth from the other of said ends of said groove; and a closure cap having a cylindrical wall and a transversal top wall, said closure cap having two diametrically located inwardly curved lugs projecting from the free edge of said cylindrical wall, each of said lugs engaging one of said portions of said groove in a position of said closure cap in which said top wall thereof is adapted to abut against the end of a container neck portion passing through said axial bore, said top wall of said closure cap moving towards said top face of said holding member while said closure cap is rotated in a direction causing movement of said lugs toward portions of decreased depth of said portions of said groove, said closure cap being turnable in a direction opposite to said direction to a pivoting position in which one of said lugs registers with said cutout in said holding member, from which pivoting position said closure cap may be pivoted about a joint formed by the end portion of the other of said lugs and by said groove, said one of said lugs passing through said cutout during such opening pivoting movement.

2,639,057

CONTAINER CLOSURE

Erich Gronemeyer, Pompton Plains, and Samuel Cherba, Totowa, N. J.

Application March 15, 1949, Serial No. 81,456
4 Claims. (Cl. 220—42)



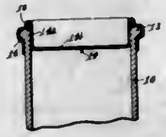
2. The combination with a container having a neck, said neck having an axial opening therethrough, said neck having an outer lip in the form of an annular zone lying substantially in a plane at right angles to the axis of the neck, of a removable cap closing the axial opening through the neck of the container and effecting a temporary seal with the neck, the neck being approximately cylindrical over the major portion of its length, the neck having within an annular zone intermediate the ends thereof at least one relatively low ridge in the form of a helical land thereon encircling the neck, the annular zones of the outer surface of the neck outwardly and inwardly of the ridge being smooth and uninterrupted, the outer and inner ends of the helical land starting and ending, respectively, at the level of the outer and inner smooth annular zones, respectively, the helical land increasing gradually in radial height in opposite directions from the outer and inner ends thereof, said cap being cup shaped and including a sleeve telescoped over the neck of the container, the sleeve being made of a relatively stiff elastomeric material, the sleeve having an annular zone on its inner surface which elastically engages the uninterrupted annular zone on the container neck completely therearound and throughout substantially the length of such zone on the neck, the inner surface of the sleeve, in another zone, overlying and frictionally engaging the ridge on the container neck, the inner top surface of the cap having at least the annular zone thereof confronting the lip of the neck lying in a plane substantially at right angles to the axis of the sleeve of the cap, said annular zone on the inner top surface of the cap effecting a seal with the lip of the neck of the container, the sleeve when removed from the container neck having an inner surface throughout the major portion of its length which is substantially cylindrical, the diameter of such cylindrical inner surface being slightly smaller than the diameter of the smooth annular uninterrupted zone on the container neck at the outer end thereof.

2,639,058

ELASTICALLY SEALED CLOSURE FOR CONTAINERS

Frederick Lobl, Middleboro, Mass.

Application July 26, 1951, Serial No. 238,609
1 Claim. (Cl. 220—42)



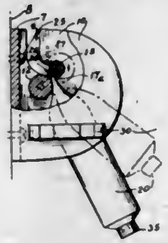
A closure for a container having walls defining a mouth opening, said closure comprising a generally cup-shaped plug formed of sheet material having a bottom wall and integral annular side walls terminating in an out-turned annular bead, an elastic band having internal diameter less than the exterior diameter of said annular side walls of the plug, said band being stretched and arranged exteriorly on said plug with one end portion of the band walls secured to the plug at said bead, the material of said bead being formed to secure said end portion of the band within the bead whereby the main portions of said band may be stretched and turned outwardly about said bead to uncover the said plug for insertion of the plug in said mouth opening of the container with portions of said band engaging between the rim of the container and said bead on the plug, said main portions of the band being then movable into resilient gripping engagement around exterior portions of the container for resiliently biasing said plug into the mouth of the container while sealing the container.

2,639,059

MEANS INCLUDING A WINDING SHAFT AND A ROLLER FOR MOUNTING AND COLLAPSING TUBULAR CONTAINERS

Arthur S. Durham, Pico, Calif.

Application June 19, 1951, Serial No. 232,291
6 Claims. (Cl. 222—98)



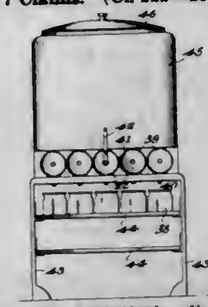
1. A combined holder and dispenser for collapsible tubes, comprising a base, two mounting members both projecting from the same face of said base, one of said members projecting from one side edge portion of said base and the other of said members projecting from the opposite side edge portion thereof, said members consisting of parallel plates, a roller rotatably supported by said plates and spanning the space between them, and a manually rotatable shaft supported by and between said plates in an adjacent, parallel relation to said roller, said shaft being diametrically slotted to receive the thin end portion of a conventional collapsible tube, there being a slot cut into an edge portion of each of said parallel plates, the inner end portions of said slots forming bearings for said shaft, and recess forming bearing means forming lateral extensions leading from said slots, said roller carrying trunnions which have their bearings in the recesses formed by said lateral extensions.

2,639,060

DISPENSING APPARATUS FOR MEASURING AND DELIVERING A PLURALITY OF LIQUIDS

Frank Mantell, Detroit, Mich.

Application April 17, 1951, Serial No. 221,505
7 Claims. (Cl. 222—138)



1. A device for selectively dispensing fluids comprising a hollow cylindrical valve body, a partition within said body dividing the interior thereof into two chambers, said body containing separate means for admitting and discharging fluid to and from each chamber, a cylindrical sleeve surrounding the periphery of said valve body, said sleeve having an inlet opening alined with each of said fluid admitting means at a predetermined position of the valve and having a dispensing opening selectively alined with one of said discharge means upon rotation of the valve body in one direction and with the other of said discharge means upon rotation in the opposite direction, and means for rotating said valve body within the sleeve.

2,639,061

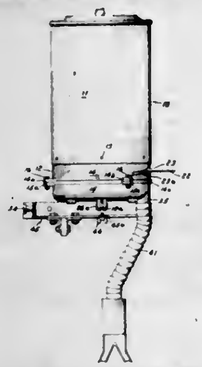
FLOW ADJUSTING MEANS FOR FERTILIZER DISTRIBUTORS

Cyril M. Gladis, Butler, Pa., assignor, by mesne assignments, to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware

Application January 31, 1950, Serial No. 141,460
2 Claims. (Cl. 222—285)

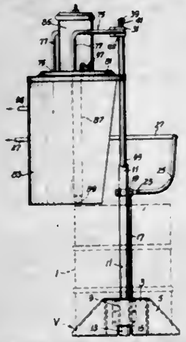
1. In a fertilizer distributor, a hollow base element, side walls mounted on said base element defining a hopper for granulated fertilizer, a cup-shaped member rotatably mounted on said base element, a funnel-shaped member mounted in said base element above said cup member and having a stem portion projecting into said cup member but being axially spaced above the bottom of said cup-shaped member, a sleeve-like valve member helically adjustably mounted on said stem portion of the funnel-shaped element and cooperating with the bottom of said cup-

shaped member to define a variable width, annular orifice to control fertilizer flow from said stem portion into the outer peripheral portions of said cup-shaped member, said base element having a helically extending slot formed in the



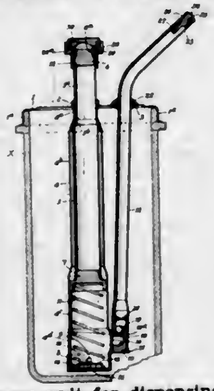
wall thereof, at least one of the helical walls of said slot having a plurality of spaced notches formed therein, and a resilient operating arm secured in radial relationship to said sleeve-like valve member and projecting through said aperture, said operating arm being resiliently engageable with any selected one of said notches to retain said valve member in any selected axial position.

2,639,062
ELEVATING MEANS FOR LANCE TYPE LUBRICANT PUMPS
Alexander P. Fox, University City, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application October 21, 1948, Serial No. 55,659
20 Claims. (Cl. 222—325)



1. An elevating lubricant-pump construction for vertical movement of application of lance type pumps to and from interchangeable containers, comprising vertically arranged telescoping assemblies, one of which is stationary and the other being vertically movable and rotary relative to the other, an overhanging support for a pump mounted upon the upper end of the movable telescoping assembly, said support including a container cover, a latching mechanism having one element thereof near the upper end of the stationary assembly and a cooperating element thereof near the bottom end of the movable assembly adapted automatically to engage when the movable member is lifted to a topmost position so as to hold said movable assembly in said topmost position, said latching mechanism comprising a movable detaining member on one of the telescoping assemblies and a part on the other telescoping assembly for engagement by said movable detaining member in order to latch, said part permitting rotary movement of the movable telescoping assembly when latched up so that the cover may be raised from a container and swung laterally, manual means for disengaging the latch, and a piston in the stationary telescoping assembly and carried on the movable telescoping assembly near its lower end, said stationary telescoping assembly including a restricted air supply and exhaust port near its lower end for controlling rising and falling movements of the movable assembly.

2,639,063
SIRUP PUMP
Joseph J. Yuza, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application May 14, 1949, Serial No. 93,279
3 Claims. (Cl. 222—385)

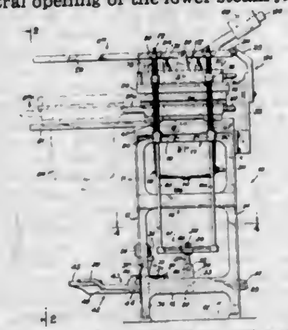


1. In a pump unit for dispensing soda fountain syrup and the like, a supporting plate adapted to serve as a removable cover for an open-topped syrup container, said cover having two apertures, an outer tube secured in one such aperture and including unitary tubular portions of different diameters, said outer tube being open at top and bottom, a dispensing tube secured to a lower part of said outer tube and having an upper portion extending outwardly through the other of said apertures in the plate and terminating in a discharge end, a tubular piston structure movably mounted in said outer tube, a removable closure for the lower end of said outer tube, and a removable handle enlargement for the upper end of the tubular piston, whereby the tubular piston structure is downwardly removable through the lower end of the outer tube.

2,639,064
HAT BLOCKING MACHINE
Joseph Sarnelle, New York, N. Y.
Application January 10, 1950, Serial No. 137,691
18 Claims. (Cl. 223—12)

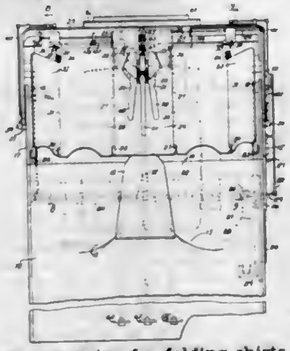
1. A hat blocking machine comprising a stand, rails attached to the stand, and extending therefrom, a spring supported upper steam jacket slidably mounted on the stand for up and down movement, a lower steam jacket slidably mounted on said rails and slidable from a position in front

of the stand to a position over the stand and below the upper steam jacket, a steam pot fixed to the underside of the lower steam jacket, said lower steam jacket being formed with a central through opening communicating with the interior of the steam pot, a hat brim pressing member on the top of the lower steam jacket, said pressing member being provided with a top wall formed with a central opening so that the brim of the hat may be placed on said top wall with the crown of the hat projecting downwardly through the central opening in said top wall and through the central opening of the lower steam jacket and



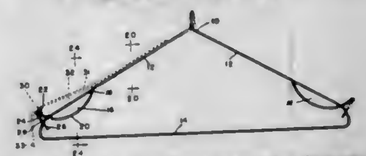
into the upper end of the steam pot, said presser member being further formed with a skirted wall extending downwardly from the outer end of said top wall and with an outwardly extending flange at the lower end of said skirted wall and a ring slidably mounted and surrounding said skirted wall, spring means interposed between the ring and said flange for resiliently urging the ring upwardly, and a plate fixed to the underside of the top jacket and means for lowering the top steam jacket for pressing the ring downwardly toward the flange whereby said plate will press against the upper surface of the brim on said top wall.

2,639,065
SHIRT FOLDING APPARATUS
Harry D. Forse, William P. Thompson, and Leon T. Hooper, Anderson, Ind.; said Thompson and said Hooper assignors to Forse Corporation, Anderson, Ind., a corporation of Delaware
Application June 2, 1947, Serial No. 751,884
2 Claims. (Cl. 223—37)



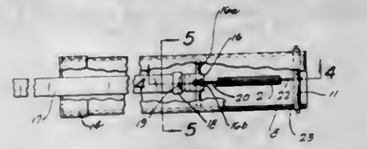
1. In an apparatus for folding shirts with the front up, a frame, a supporting member pivotally associated with said frame, a shirt supporting and folding panel secured to said supporting member and movable therewith, folding vanes hingedly secured to opposed sides of said panel, shirt clamping means operably associated with each of said folding vanes, means for operating said vanes in timed sequence to fold beneath said panel, and means for concurrently rotating said frame, said panel and said folded vanes between two limit positions.

2,639,066
GARMENT HANGER
John W. Kinney, Jr., and Harry A. Tomarin, Cincinnati, Ohio; said Tomarin assignor to J. Warren Kinney, Jr., Cincinnati, Ohio
Application August 16, 1947, Serial No. 769,040
7 Claims. (Cl. 223—88)



4. In combination with a garment hanger including a pair of upwardly convergent elements for supporting the shoulder portions of garments supported therefrom, of an upwardly inclined shoulder pad supporting member provided along, on opposite sides of and adjacent the lower end of each of said elements, each member including an upturned end portion for providing an abutment engagable by the end of a shoulder pad of a garment suspended from said hanger.

2,639,067
WATCH WRISTBAND
Theodore Hirsch, Detroit, Mich.
Application December 14, 1951, Serial No. 261,722
4 Claims. (Cl. 224—4)

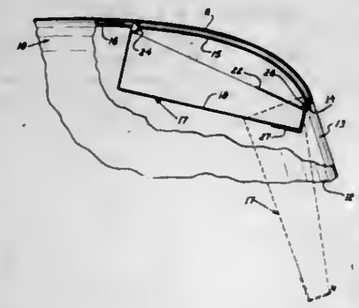


1. A wrist band of the class described adapted for use with a wrist watch, comprising: a pair of curved hollow arms, each of said arms being pivotally connectable at one of its ends to the opposite sides of a wrist watch; a flexible member insertable at its opposite ends into the free ends of each of said arms; a spring in each of said arms connected at one end in fixed relation to the arm in which positioned and at its opposite ends to the inner end of said flexible member; an engagement member carried on the free end of at least one of said arms; an engagement member carried by said flexible member within the engagement carrying arm and engageable therewith for normally preventing the pulling of said end into said arm by said spring.

2,639,068
TOOL TRAY FOR VEHICLE BODIES OR THE LIKE
Henry N. Luby and Charles A. Wefing, Denver Colo.
Application February 18, 1947, Serial No. 729,340
3 Claims. (Cl. 224—42.1)

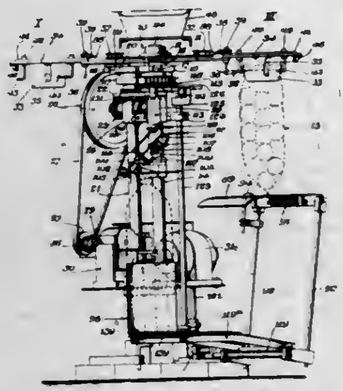
1. In combination with a vehicle body roof panel in which the body has a rear door opening

and a door for closing said opening, a pair of trackways extending in spaced relationship lengthwise of the roof panel throughout a portion of its length and terminating at the upper end of the door opening in the body, said panel having an inwardly and upwardly projecting flange defining the upper edge of the door opening, of a tool tray having at its inner side spaced means



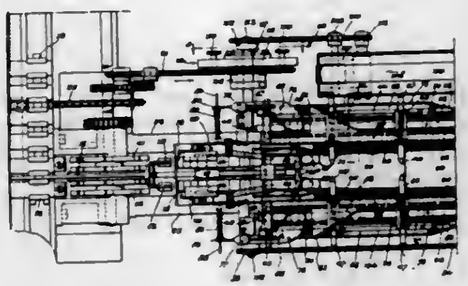
slidably engaged in said trackways, and hook-like members located at its outer side and engageable with said flange for maintaining the tray in its out-of-use position beneath the roof panel, said tray being capable of sliding movement along said trackways to a position of use within said door opening upon release of said hook-like members from said flange.

2,639,069
BAG FILLING, CLOSING, AND TYING MACHINE
Edward E. West, Richmond, Va., assignor to Chase Bag Company, Richmond, Va., a corporation of Delaware
Application February 10, 1948, Serial No. 7,393
12 Claims. (Cl. 226—2)



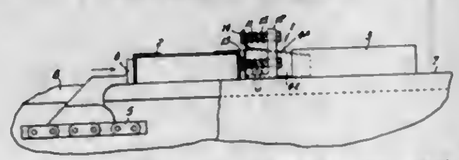
6. An apparatus of the type described for filling a bag having a drawstring closure with a predetermined number of articles, closing the mouth of the bag, tying the drawstring and discharging the filled bag, the combination which includes a series of radially extending arms rotatable as a unit about a fixed axis, a member carried at the end of each of said arms for supporting a bag in open-mouthed position on each of said arms, said members including grippers engaging with the sides of the bag, operating levers connected to the grippers and a drawstring-engaging member engaging with the drawstring of the bag, an intermittent movement connected to said arms for moving the arms as a unit about the fixed axis and positioning the arms sequentially at a series of spaced positions, a feed mechanism located at one of said positions for delivering a predetermined number of articles to the bag at said position, cams engaging with and operating the gripper-operating levers upon movement of the arms, said cams being positioned to bring the grippers into engagement with the sides of the bag prior to the bag-filling position of the arms and to release the grippers from engagement with the bag at the position of the arms following said bag-filling position, a pivoted platform located beneath the filled bag at said bag-releasing position, said platform being tiltable downwardly under the weight of the filled bag, a reciprocating hopper located at the position of the arms following said bag-releasing position, said hopper being positioned to receive the filled bag from said tiltable platform upon movement of the arms, a knotting mechanism positioned to engage with the drawstring of the bag as the bag is moved from the platform to the hopper, means for operating said knotting mechanism to tie a knot in the drawstring and means for simultaneously raising the hopper during operation of the knotting mechanism.

2,639,070
SEPARATING AND PACKAGING OF BOOK MATCHES
Eric P. Olson, Oswego, N. Y., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application April 28, 1949, Serial No. 90,163
19 Claims. (Cl. 226—4)



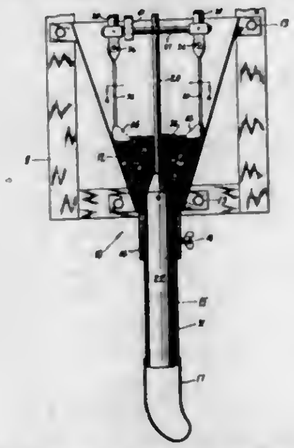
1. A book match separating and packaging machine comprising means for feeding a plurality of match books in a substantially continuous stream and in face-to-face, compressed relationship, means adjacent said feeding means for periodically and successively separating said stream into groups and maintaining the match books in each group in compressed relation separated by said separating means from each successive group, means for moving said separating means to move said groups to a first station for assembling a carton with one of said groups, means for moving said separating means to a second station, means at said second station for inverting said assembled group and carton so as to produce a packed carton in normal position and means for moving said packed carton to a third station adjacent said first station to permit assembly of a cover therewith.

2,639,071
MOUTHPIECE FOR MACHINES FOR PACKING CIGARETTES AND LIKE ARTICLES
Charles Thomas Hall, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application December 14, 1949, Serial No. 132,844
In Great Britain December 29, 1948
2 Claims. (Cl. 226—5)



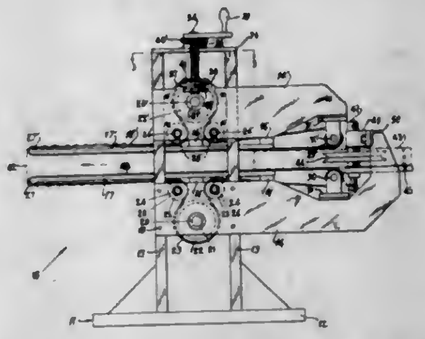
1. A mouthpiece for machines for packing cigarettes and like articles in packets having flat adjoining sides, comprising mouthpiece blades engaging two such adjoining sides and integrally constructed to include the corner between them and form a single corner member, the said member being flexibly mounted to move as necessary to afford passage for an article passing through the mouthpiece, the flexible mounting for each corner member comprising a supporting frame, a pair of studs mounted on said frame and extending lengthwise of the mouthpiece, apertured ears formed on and extended laterally from said blades, one of said ears being freely received on each stud, and a spring on each stud compressed between the frame and the ear.

2,639,072
FILLING MACHINE HAVING VERTICALLY RECIPROCABLE TAMPING ARMS AND PLUNGER
Robert J. Goldberg, New York, N. Y., assignor of one-half to Max Goldberg, New York, N. Y.
Application October 1, 1948, Serial No. 52,280
2 Claims. (Cl. 226—19)



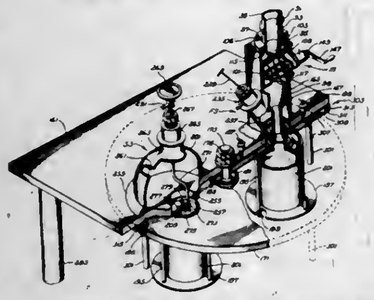
1. In a two-step feeding machine for filling containers with particles of non-fluent material, a housing, an upright conical and perforated hopper fixed to said housing and having a tubular nozzle at its lower end, a plunger reciprocally mounted on said housing for up and down movement in said hopper and through said nozzle, a cross-head slidably mounted on said housing, two tamping arms pivotally mounted on said cross-head and reciprocally mounted for up and down movements, said arms being in diametrically contacting relation with the inclined walls of said hopper and guided by said walls for simultaneous movement to said nozzle, the lower end portions of said arms facing said nozzle being semi-circular and adapted for movement toward the axis of said nozzle for collecting and feeding said filling material to said nozzle, to permit said plunger in its downward movement to pack said collected material into said container, a drive shaft mounted transversely of said housing and having an eccentric thereon, a connecting rod mounted on said eccentric at one end and being connected to said cross-head at the other end, a crank fixed at one end of said shaft, a link pivotally secured to said crank at one end and being pivotally connected to said plunger at the other end, said plunger and said tamping arms being independently driven from said drive shaft in timed relation, whereby the tamping arms first feed the filling material toward the opening in the bottom of the hopper and hold the material in compacted form and the plunger then comes down and pushes the already compacted material into and through said nozzle, and air suction means communicating with said perforated hopper for removing the air from said filling material for creating an air stream in said hopper facilitating the downward movement of said material.

2,639,073
MATTRESS FILLING MACHINE
Max Goldberg, New York, N. Y.
Application October 21, 1950, Serial No. 191,469
7 Claims. (Cl. 226—45)



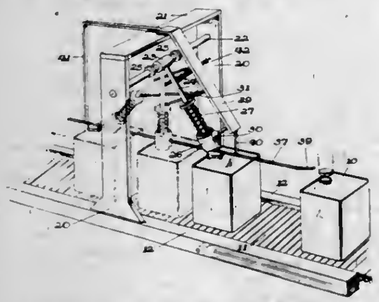
1. In a filling machine for filling a mattress casing with a unitary foam rubber filler, the combination of a frame and means for supporting said unitary filler, upper and lower longitudinally endless substantially parallel conveyors made of fabric and forming a spout, said conveyors being adapted to compress said filler and thereby exert longitudinal feeding actions on the upper and lower faces of said filler, and two sheave pulleys rotatably mounted horizontally intermediate said conveyors, at the feeding end of said machine, a portion of each of said sheave pulleys being in overlapping relation with an end portion of said conveyors and being thereby adapted for compressing both side portions of said unitary filler prior to the initiation of compression by said conveyors, said reduced width and bodily compressed filler being thereby adapted to freely enter into said mattress casing, said pulleys causing feeding actions on both sides of said filler and thereby augmenting the longitudinal feeding of said filler by said conveyors, said upper conveyor being vertically movably mounted relative to said lower conveyor for filling mattress casings of different thicknesses.

2,639,074
IMPLEMENT FOR USE IN CHEMICAL APPARATUS
Charles H. Prescott, Jr., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application April 25, 1946, Serial No. 664,956
9 Claims. (Cl. 226—82)



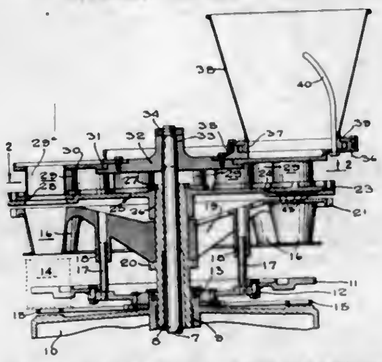
1. In apparatus for filling receptacles with a material that tends to decompose upon contact with ordinary atmospheric air, and for hermetically sealing the receptacles so filled, the combination of: a pair of relatively rotatable, superposed plates having aligned apertures defining a receptacle filling station and spacially disposed apertures in alignment defining a receptacle sealing station, means for introducing the material into a receptacle positioned at the filling station, means for simultaneously sealing hermetically another receptacle positioned at the sealing station and previously filled with a desired quantity of the material, and means for moving the freshly filled receptacle from the filling station to the sealing station and for moving an empty receptacle to be filled to the filling station.

2,639,075
APPARATUS FOR APPLYING CAPS TO CONTAINERS
John W. Kerlin, Teaneck, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware
Application July 2, 1952, Serial No. 296,837
9 Claims. (Cl. 226—84)



1. Apparatus for applying container caps of the type closed by downward pressure applied to the top of the cap comprising conveyor means for moving a line of containers with caps placed loosely thereon, a chuck having a downwardly opening cap-receiving recess shaped to apply downward pressure to the top of a cap therein, means pivotally mounting said chuck to swing in a pendulum-like arc in substantially the same plane with the path of movement of said caps, said mounting means including resilient means yieldingly resisting radially inward movement of said chuck with respect to its pivot, means limiting the swinging of said chuck in the direction opposite to the direction of movement of said containers at a cap-receiving position, and means biasing said chuck toward said position, whereby the loose cap on a moving container engages the chuck at said position, moves it through the low point of its arc with resulting closing of the cap by yieldingly applied pressure, and then disengages itself from the chuck for return of the latter to said cap-receiving position.

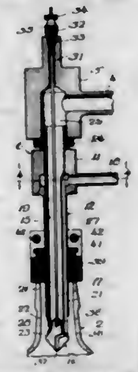
2,639,076
APPARATUS FOR FILLING CONTAINERS WITH MOIST GRANULAR MATERIAL
Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application November 22, 1950, Serial No. 197,098
3 Claims. (Cl. 226—102)



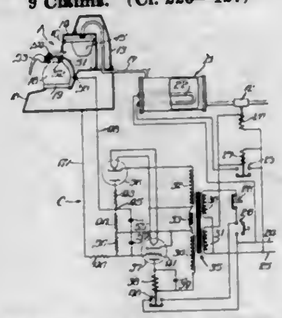
1. Apparatus for filling containers with moist granular material comprising a filling hopper adapted to be filled with granular material having water entrained therein, a drain including a foraminous element horizontally disposed beneath said hopper, a pocket, means operable to interpose said pocket between said hopper and said drain whereby a mass of granular material is deposited in said pocket and a substantial portion of said entrained water is passed through said pocket into said drain, and means for discharging said mass of granular material into the container.

2,639,077
VACUUM FILLING STEM
Ivan H. Risser, Glenview, Ill., assignor to U. S. Bottlers Machinery Company, Chicago, Ill., a corporation of Illinois
Application December 8, 1949, Serial No. 131,769
4 Claims. (Cl. 226—116)

1. In a vacuum filling stem attachment for the filler head of a vacuum filling machine and adapted to fill a container to a predetermined level, an inner and an outer telescoping tube assembly with the outer freely movable vertically upon the inner, the inner tube assembly being connected at its upper end to the filler head and having a depending tubular part provided adjacent its lower end with a relatively large discharge opening and a removably and adjustably mounted tube tip and valve seat therebelow closing the lower end of said tubular part except for the discharge opening, an air vent groove in the exterior of the inner tube assembly extending upwardly from the lower end and communicating with an aligned and laterally opening air vent in the tip, the outer telescoping tube assembly having a valve seating surface at its lower end for sealing engagement when lowered into contact with the valve seat and in which position it closes off passage through the discharge opening in the inner tube assembly and establishes communication between the air vent groove and the air vent, said outer tube assembly being provided with a head at its upper end having an internal groove connected to a source of vacuum and in communication with the air vent groove and provided with an adjustably mounted sealer rubber for contact with the neck of a bottle to be filled and when the outer tube assembly is elevated with respect to the inner tube assembly, the valve seating surface is withdrawn from its sealing contact with the valve seat, breaks the vacuum through the air vent groove and the air vent in the valve tip and uncovers the discharge port.

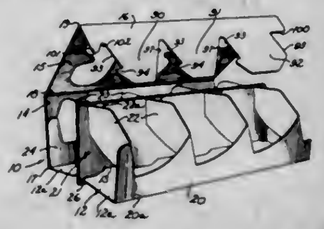


2,639,078
RECEPTACLE FILLING AND LIQUID LEVEL CONTROL SYSTEM
Harvey R. Karlen, Chicago, Ill., assignor to Cory Corporation, Chicago, Ill., a corporation of Delaware
Application September 28, 1949, Serial No. 118,341
9 Claims. (Cl. 226—127)



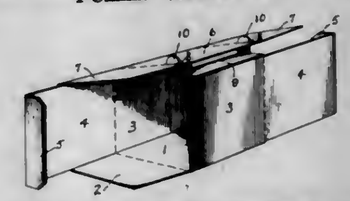
1. An apparatus including a receptacle, means for conducting liquid into the receptacle, an electric control circuit having a terminal in a liquid stream flowing into the receptacle and a second terminal positioned to be contacted by the pool of liquid in the receptacle, said circuit being adapted to be completed between the terminals through said liquid stream and the pool when the pool of liquid within the receptacle contacts said second terminal.

2,639,079
MULTIPLE CELL CARTON
Noel A. Petter, Glendale, Calif.
Application April 28, 1950, Serial No. 158,723
8 Claims. (Cl. 229—28)



1. A multiple cell carton comprising: a bottom wall, a rearward side wall integrally joined with and turned upwardly from one edge of said bottom wall, a single-ply front side wall integrally joined with and turned upwardly from the other edge of said bottom wall, two parallel sets of transverse partitions overlying said bottom wall, the outer ends of the partitions of one of said sets integrally joined with the upper portion of said single-ply front side wall along generally vertically disposed hinge lines, an attachment panel joined to the inside surface of said rearward side wall, and the outer ends of the partitions of the other of said parallel sets integrally joined with said attachment panel along generally vertically disposed hinge lines, a central longitudinal partition between said parallel sets of transverse partitions comprising two adjacent partition panels joined back to back and formed integrally with one another along their lower edges, and the inner ends of said transverse partitions being integrally joined to the upper edge portions of the adjacent longitudinal partition panels.

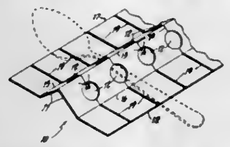
2,639,080
FOLDING BOX
Wilbur G. Anderson, Jr., Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan
Application October 31, 1949, Serial No. 124,699
1 Claim. (Cl. 229—38)



A box having a bottom, two spaced vertical sides integrally connected thereto, a top connected at one edge to the upper edge of one of said sides, other flaps, one at each end of the top

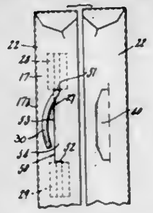
extending downwardly therefrom, said top at each end thereof at the connection of said flaps thereto having slots therethrough, a member connected to the other of said sides and extending under said top and at each end having a tongue passing upwardly through said slots and thence bent downward outside of said other flaps, and two ends each connected to the vertical edge of a side and extending outside of said other flaps and tongues.

2,639,081
ARTICLE HOLDING INSERT FOR CARTONS
Henry L. Metzger, Castleton-on-Hudson, N. Y.
Application October 6, 1949, Serial No. 119,876
1 Claim. (Cl. 229—42)



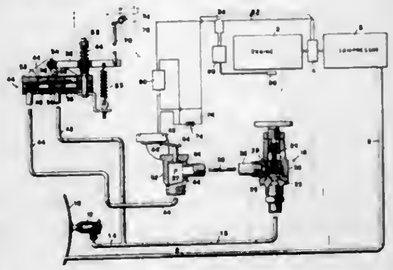
An article holding insert for a carton comprising a blank of bendable material having spaced parallel longitudinally extending score lines defining an intermediate article holding portion provided with spaced aligned openings therein disposed along opposite sides of one axis thereof, and adapted to receive articles therein transversely of said axis, extension members connected to opposite sides of said article holding portion lying in a single plane adapted to rest on the bottom of said carton and against the walls thereof to maintain said article holding portion in angular upraised position, said article holding portion having article retaining sections lying along said axis between said aligned openings, spaced slits traversing said article holding portion from one score line to the other including said article retaining sections, said slits extending diametrically across said aligned openings, and score lines traversing said extension members in alignment with said slits, whereby said insert can be bent transversely of said axis so that said article retaining sections readily can be separated to receive said articles in said openings.

2,639,082
CONTAINER STRUCTURE WITH HANDLE ATTACHMENT
Albert J. Goldsmith, New York, N. Y.
Application May 26, 1948, Serial No. 29,357
1 Claim. (Cl. 229—52)



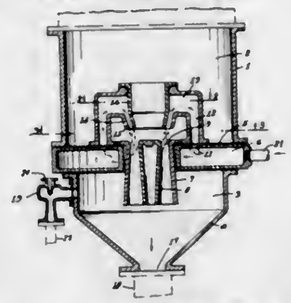
In a container having upper and lower walls arranged in superposed position in closed condition of said container; said upper wall and said lower wall being each provided with an elongated flap, the lengths of said flaps being substantially equal, each flap being defined by a narrow knife-edge slit provided in the respective wall and being provided with opposite ends of substantially equal width, said flaps being arranged in overlapping relation to each other so that a portion of the flap of the upper wall overlies in lateral direction said slit of said lower wall and closes said slit of said lower wall in closed condition of said container, the opposite ends of said flap of said upper wall being parallel, said flap of said upper wall including portions extending obliquely from the ends at an angle greater than 90° to provide handle guide means, a handle provided with a median gripping piece and with enlarged end pieces, said end pieces being permanently affixed to the underface of said lower wall, the width of said median gripping piece corresponding substantially to the width of the opposite ends of said flaps, whereby said median gripping piece may be moved through said slits and guided past said flaps along said guide means for position within said opposite slit ends and for contact with said opposite flap ends so as to extend above said flaps in said closed condition of said container, said enlarged end pieces of said handle terminating at said opposite ends of said slits of said lower wall and forming a reinforcement thereat, and a fabric tape reinforcing and laminated to said handle, said fabric tape being of uniform width throughout its length and corresponding to the width of said median gripping piece and being of a length terminating at said end pieces of said handle, the width of each end piece being at least twice the width of said median gripping piece.

2,639,083
CONTROL MECHANISM FOR ENGINE DRIVEN COMPRESSORS
Howard H. Rambo, West Chester, Pa., assignor to Schramm, Inc., West Chester, Pa., a corporation of Pennsylvania
Application May 8, 1948, Serial No. 25,888
1 Claim. (Cl. 230—3)



In combination, a combustion engine, at least two compressors, a pair of magnetic clutches through which the engine drives the compressors, a tank connected to the compressors to receive compressed gas therefrom, a pair of pressure responsive pilot mechanisms, a first switch means, one of said pilot mechanisms operating in response to pressure in the tank and controlling said first switch means when the pressure in the tank reaches a predetermined value to disengage one of said clutches to stop one of said compressors, a second switch means, the other of said pilot mechanisms operating in response to pressure in the tank when it reaches a value greater than the first mentioned predetermined value to control said second switch means to disengage the other of said clutches to stop the other of said compressors, and means responsive to variations of pressure in the tank throughout a predetermined range of pressure therein to adjust the engine speed within a predetermined range of speeds in response to substantially any change in tank pressure and responsive to operation of said other of said pilot mechanisms to reduce the engine speed to idling speed when both of said compressors have been stopped.

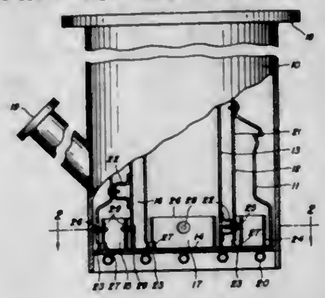
2,639,084
PUMP
Frederick J. MacKenzie, Trenton, N. J.
Application August 8, 1951, Serial No. 240,817
3 Claims. (Cl. 230—92)



1. A jet pump comprising a housing enclosing a low pressure chamber and a high pressure chamber, a partition within said housing separating said chambers, an annular venturi extending through said partition, the transverse area thereof increasing in the direction of the higher pressure chamber, an annular nozzle tapering inwardly toward its exit end positioned coaxially with and spaced apart from, the annular venturi and directed toward the throat of the venturi, an annular water chamber coaxially positioned with respect to the nozzle and in open communication with the upstream end thereof, conduit means leading tangentially into said annular chamber, a passageway extending through said nozzle and water chamber, whereby the interior surface of the jet is exposed to the atmosphere of the low pressure chamber, an inlet to the low pressure chamber and an outlet from the high pressure chamber.

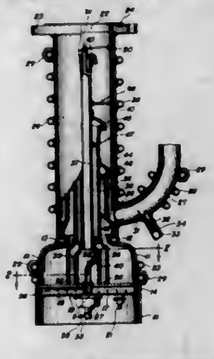
2,639,085
VACUUM PUMP
Merriam E. Johnson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 2, 1951, Serial No. 203,946
3 Claims. (Cl. 230—101)

1. In a vertical diffusion pump, the combination comprising a generally cylindrical casing, a bottom for said casing, a plurality of concentric vapor chimneys disposed in said casing and generally concentric with said casing, said chimneys being secured together into a unitary chimney assembly, said chimneys being spaced from each other and from said casing and having the lower ends of said chimneys contiguous to the bottom of said casing and forming a plurality of generally concentric boiler compartments, each said chimney having a notch in the lower end of the chimney for permitting flow of pump fluid through said boiler compartments in series, a floating collar disposed around the lower end of each chimney in closely adjacent concentric relation with said chimney, said collars being substantially out of frictional contact with said chimneys and having the lower circumferential edge of each said collar in contact with the bottom of said casing, said collars extending upwardly along said chimneys to a height above the normal level of pump fluid in said boiler compartments, each said collar having a notch in the lower edge thereof in general alignment



with the notch in the next adjacent chimney, each said collar having a wall opening therein in a localized upper zone of said collar, and pinning means secured to each said chimney and extending into the wall opening in the next adjacent collar, said pinning means being substantially smaller than said wall opening for permitting limited vertical movement of said collars relative to said chimneys.

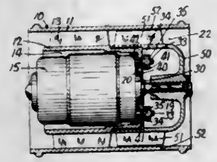
2,639,086
HIGH VACUUM DIFFUSION PUMP
Benjamin B. Dayton, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 30, 1951, Serial No. 259,081
5 Claims. (Cl. 230—101)



1. A fractionating diffusion pump comprising wall means defining a boiler and a pump casing extending upwardly from said boiler, spaced-apart inlet and outlet ports in said casing, a plurality of generally concentric vapor chimneys disposed within said wall means and being arranged to divide said boiler into a plurality of generally concentric boiler compartments, the upper ends of said chimneys being in said casing between said inlet and outlet ports, jet nozzle means communicating with the upper ends of said chimneys, centrally disposed means for draining pump fluid from said boiler compartment formed by the inner vapor chimney, re-

movable closure means for said draining means, and means disposed within said inner chimney for channeling gases from the region of said draining means into a vapor chimney other than said inner vapor chimney.

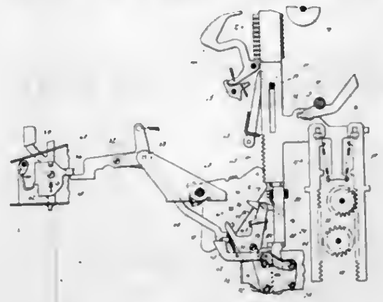
2,639,087
AXIAL FLOW FAN
Charles F. Goede, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application November 4, 1947, Serial No. 784,015
8 Claims. (Cl. 230—117)



1. In combination, in an axial flow fan, a fan and motor housing comprising an outer annular wall and an inner annular wall in substantially concentric relation, the outer annular wall providing a fan chamber and the inner annular wall a motor housing, and a plurality of circumferentially spaced vanes connecting said walls in fixed spaced relation, said inner wall having a radially inwardly extending portion to provide a transversely extending surface toward which a motor received in the motor housing moves upon insertive movement, a motor having a casing and a rotating shaft, said motor casing and said inner annular wall having spaced, respectively external and internal, surfaces of revolution, the latter surrounding the former, which surfaces are cut by common planes to which the axis of said rotating shaft is perpendicular, a fan for which said shaft constitutes both a support and driving means, said motor casing having a surface thereon facing said transversely extending surface when said motor casing is arranged within the motor chamber, and means for fixing the motor relative to the fan and motor housing with the fan centered in the fan chamber, including a hardened thermoplastic annulus having portions extending between and simultaneously contacting said surfaces of revolution and thereby providing a radial support for the motor casing and other portions extending between said transverse surface and the oppositely facing surface of the motor casing and means for maintaining said plastic annulus under compression between said transverse surface and the oppositely facing surface of the motor casing.

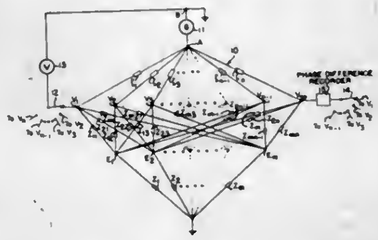
2,639,088
TYPE BAR RESTRAINING MECHANISM FOR ACCOUNTING MACHINES
Walter A. Anderson, Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application July 25, 1951, Serial No. 238,446
3 Claims. (Cl. 235—60.31)

1. In a machine of the class described having a power means, a plurality of actuators resiliently advanceable from and power restored to a home position, and a register engageable with said actuators to differentially limit movement of said actuators from home position and disengageable from said actuators to permit their power return, the combination of means to prevent advancing movement of said actuators upon disengagement of said register therefrom, said means including actuator engaging detents, and a member common to said detents to hold them from engagement with said actuators, a first latch to hold said preventing means in an ineffective position, a function control member operable to release



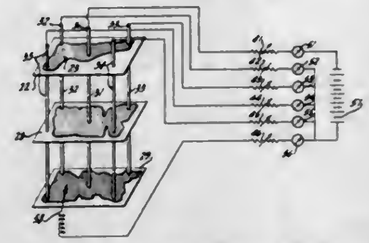
said latch, a second latch to hold said preventing means ineffective when said first latch is released, a cyclically operated releasing mechanism for said second latch and a connection from said power means to said member and said detents common to said detents to restore said member to and hold them in the disengaged position at the end of a machine cycle.

2,639,089
ELECTRICAL CALCULATOR
André Noël Gleyzal, Cleveland, Ohio
Application June 3, 1949, Serial No. 97,067
6 Claims. (Cl. 235—61)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a system for solving a linear algebraic equation in n variables, an electrical network including a set of junction points one for each of said variables, another junction point, a set of impedance elements one for each coefficient of the equation directly connecting each junction point of said set of junction points with said other junction point, a source of voltage, means connecting at least one of the junction points of said set with one terminal of said voltage source, another impedance element directly connecting said other junction point with the other terminal of said voltage source, the sum of the reciprocals of the impedances connected directly to said other junction point being zero, and means for measuring the voltage between any one of said junction points of said set and said other terminal of the voltage source.

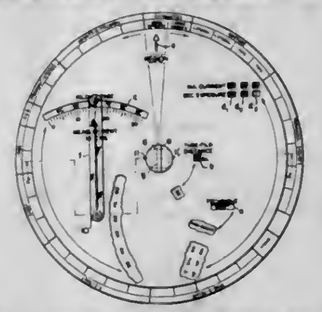
2,639,090
ELECTRICAL RESERVOIR MODEL
John E. Sherborne, Whittier, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application October 13, 1949, Serial No. 121,094
15 Claims. (Cl. 235—61)



1. A method for electrically representing a segment of an oil-bearing formation which comprises joining an electrically conductive material with a relatively non-conductive material thereby forming a solid model layer, the area of said solid model layer corresponding to the area of said segment of said oil-bearing formation, controlling the quantity of said electrically conductive material per unit area of said solid model layer so as to be proportional to the product of the varying height of said segment of said oil-bearing formation by the average permeability per unit area of said segment of said oil-bearing formation, attaching input electrodes to said electrically conductive material of said solid model layer to correspond to input wells of said segment of said oil-bearing formation, attaching output electrodes to said electrically conductive material to correspond to output wells of said segment of said oil-bearing formation, causing an electrical current flow through each of said input electrodes which is proportional to the injection rate of each of the corresponding input wells of said segment of said oil-bearing formation respectively, causing an electrical current to flow through each of said output electrodes which is proportional to the output rate of each of the corresponding output wells of said segment of said oil-bearing formation, respectively, said electrical current flow through each of said input electrodes being opposite in sign to said electrical current flow through each of said output electrodes, and determining the relative voltage distribution throughout at least a part of said electrically conductive material.

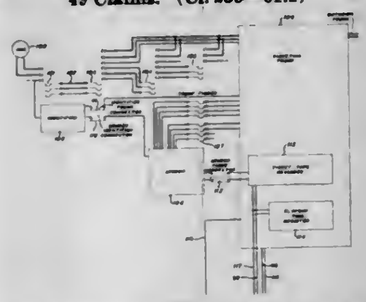
2,639,091
RADIOGRAPH CALCULATOR
Frederick Elias, Woodbourne, N. Y.
Application April 10, 1951, Serial No. 220,150
3 Claims. (Cl. 235—61)

1. A radiograph calculator device comprising a flat surfaced base member, a disc selector member, and means sustaining the selector member for axial rotation over the flat surface of the base member, a plurality of window openings in the selector member each in a different segment of the selector member and at a different distance from the center of the selector member, one of said windows being arcuate and extending generally radially in its segment, a pointer means pivotally sustained on the selector member at the axial center of the arcuate window and having a length greater than the radius of the arcuate window, and a chart non-rotatively sustained in the space gap between the base member and the selector member, said chart having indicia markings thereon aligned annularly to be visible through the said windows at each segmental position of



rotation of the said selector member and indicia markings identifying the segmental positions of rotation, and an indexing means for selectively rotating the selector member to a desired segmental position.

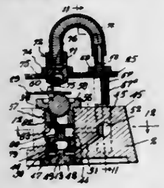
2,639,092
AUTOMATIC MESSAGE ACCOUNTING SYSTEM
John B. Retallack, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 4, 1947, Serial No. 772,092
49 Claims. (Cl. 235—61.1)



11. In a system for computing charges for telephone calls, means for registering the tens digit of the minutes of the total elapsed time for a call, a group of ten incoming tens conductors any one of which is selectable by said registering means, means for registering the units digit of the minutes of the total elapsed time, a group of ten incoming units conductors any one of which is selectable by said latter registering means, a group of ten outgoing tens conductors representing the tens digit of the calculated overtime period of conversation, a group of ten outgoing units conductors representative of the units digit of the calculated overtime period of conversation, a charge route relay, a plurality of subtracting relays selectively operable by said charge route relay in accordance with the digital value of the minutes of the initial period of conversation, any one of said subtracting relays being arranged to connect the conductors of the incoming units group to the conductors of the outgoing units group by a reduced slip having a reduction factor equivalent to the minutes of the initial period prescribed by such relays, and relay means con-

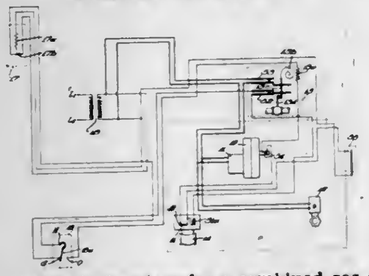
trollable by any operated one of said subtracting relays to connect the conductors of the incoming tens group to the conductors of the outgoing tens group without slip if the units digit of elapsed time is equal to or more than the digital value of the minutes prescribed for the initial period and to connect the tens group of conductors together with a reduced slip of one digit if the units digit of the elapsed time is less than the digital value of the minutes prescribed for the initial period.

2,639,093
TRAFFIC COUNTER
Glen R. Hall, Uhrichsville, Ohio
Application May 25, 1950, Serial No. 164,120
9 Claims. (Cl. 235—92)



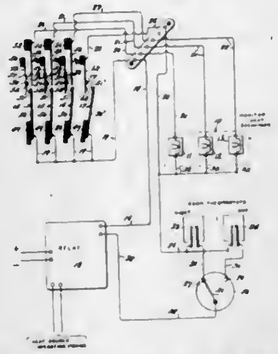
7. In a traffic counter, a body formed with a pocket, a counting unit having electrically actuated operating means, a circuit for said operating means including a contact movable into and out of circuit closing engagement with a second contact, a contact operating member normally blocking the pocket and movable in a direction to shift the movable contact into engagement with the second contact by action of air forced through the pocket and about the contact operating member, a pneumatically operated valve in said pocket normally open and movable to a closed position for preventing flow of air through the pocket to effect closing of the circuit, pneumatic means for forcing air past the open valve and through the pocket to move the contact operator in a circuit closing direction including an air ejector adapted to have air forced from it by a vehicle passing across it, and a second pneumatic means for forcing air into the pocket in position to act upon and temporarily close said valve including an air ejector adapted to have air forced from it by a vehicle passing across it.

2,639,094
INTERLOCKING SWITCH STRUCTURE FOR ELECTRICALLY OPERATED VALVES
Cyril Charles Young, Kansas City, Mo.
Application July 14, 1949, Serial No. 104,708
2 Claims. (Cl. 236—1)



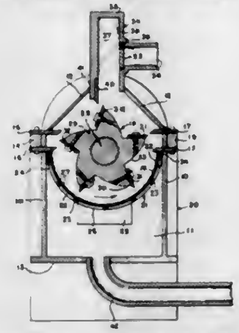
2. In a control system for a combined gas and oil burning heater of the type including a first electrically operated valve for controlling the supply of gas to the heater, a second electrically operated valve for controlling the supply of oil to the heater, a thermostat and circuit means controlled by the thermostat for selectively energizing the first or second valve, the improvement of an interlocking switch structure for the first electrically operated valve comprising a contact board, a first switch contact carried by said board, an insulating spacer on said board, a flexible switch contact blade carried by said spacer with a portion thereof normally contacting said first switch contact, a tab of electrically nonconductive material projecting from the free end of said blade into cooperative relationship with a portion of the stem of a valve and lead terminals on said contact board electrically connected to the switch contacts, whereby the interlocking switch structure may be electrically connected in said circuit means to preclude simultaneous electrical operation of the first and second electrical operated valves thereby insuring that only oil or only gas be supplied to the combined gas and oil burning heater.

2,639,095
HEATING CONTROL SYSTEM
Amariah H. Cubberley, Belleville, N. J.
Application September 23, 1949, Serial No. 117,348
3 Claims. (Cl. 236—37)



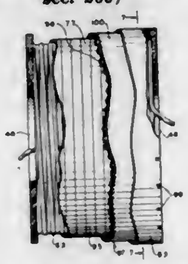
1. In a heat control system, in combination, a heat exchanger means within indoor space to be heated, thermostatic selector devices for said heat exchanger means operative to determine use of various proportions of the capacity of the latter, thermostatic control means responsive to outdoor temperature comprising a plurality of thermostatic switches respectively connected in series with respective thermostatic selector devices of the heat exchanger means, means to relatively adjust said switches so that the same respectively respond to different successive ranges of outdoor temperature drop, whereby to selectively condition said thermostatic selector devices of the heat exchanger means for operation, said thermostatic selector devices and outdoor thermostatic control means being electrically connected in circuit with means for actuating a heat supplying means, said circuit including room thermostatic means located within the space to be heated remote from the heat exchanger means and connected in series with said thermostatic selector devices of the latter, and said outdoor thermostatic control means including an additional thermostatic switch, responsive to extreme low outdoor temperatures, and directly connected in said circuit in series with said room thermostatic means so as to by-pass the thermostatic selector devices of the heat exchanger means, whereby to operate the heat supplying means solely under control of said room thermostatic means.

2,639,096
MEANS FOR GRANULATING PLASTIC MATERIALS
Irving Hinerfeld, New York, N. Y.
Application December 28, 1950, Serial No. 203,189
1 Claim. (Cl. 241—222)



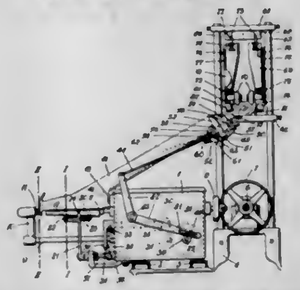
In a device for reducing a doughy slab of plastic material to granular form, a housing, a rotary cutter assembly extending across said housing and carrying cutter blades, an enclosed vertical feed chute having a top, side and end walls, the bottom end of said chute being open and in communication with said housing, an opening on one of the side walls of said chute, a flap hingedly secured to a wall of said chute pendantly closing said opening, a feed port for introducing a slab of doughy plastic material into said chute, a fixed cutter blade secured to a side wall of said chute at its lower extremity and flush with and comprising a smooth continuation of the interior surface thereof, whereby said blade permits the free vertical movement of said slab within said chute, said blade extending into said housing in cooperative relation to the blades of the cutter assembly whereby a slab of material positioned within said chute is constantly subjected to the shearing action of said blades and is continuously reciprocated within said chute.

2,639,097
COIL WINDING
Benjamin B. Scott, Jr., Pittsburgh, Pa.
Application June 5, 1946, Serial No. 674,411
9 Claims. (Cl. 242—10)
(Granted under Title 35, U. S. Code (1952), sec. 266)



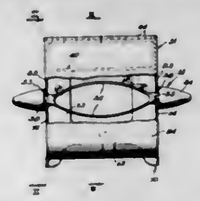
1. In a coil, a plurality of turns of elongated material about an axis, each of said turns having a pretwist, a container encompassing said coil, an adhesive means between each of said turns and at least some other turns with which it comes in contact, an adhesive means between each of the outermost turns and the interior of the container, both of said adhesive means having substantially only sufficient resistance to separation so as to maintain adhesion under ordinary handling but being easily broken under the pull sustained by the turns during the paying out thereof.

2,639,098
COP SUPPLIER
Walter Schweiter, Horgen, Switzerland, assignor to Maschinenfabrik Schweiter A. G., a corporation of Switzerland
Application February 15, 1947, Serial No. 728,833
In Switzerland March 11, 1946
8 Claims. (Cl. 242—32)



1. The combination with a plurality of cop-winders, each having a control shaft, of a conveyor disposed adjacent said cop-winders, and continuously run along said cop-winders, a plurality of carriers for cops mounted on said conveyor, a cover for each cop-carrier to retain cops therein, and a trip at each of said cop-winders, operable by the control shaft of its respectively adjacent cop-winder to tripping position, to open said covers of said cop-carriers and release cops individually from said carriers.

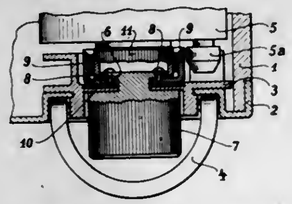
2,639,099
HOLDER FOR REPLACEABLE PAPER ROLLS
William E. Gough, Jr., Chicago, Ill., assignor to The Feb Products Company, Chicago, Ill., a partnership
Application August 17, 1948, Serial No. 44,777
6 Claims. (Cl. 242—55.2)



5. In a paper roll supporting device of the character described, a mandrel comprising a one-piece member of inherently resilient material comprising a central portion including a plurality of outwardly bowed leaf spring sections having the ends thereof integrally connected in one piece in the form of journal neck portions, said neck portions having respective bullet-

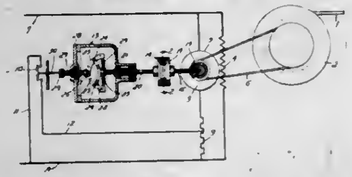
shaped terminal knobs of substantially greater diameter than the neck portions and having shoulders facing toward the adjacent ends of the spring sections and in spaced relation thereto.

2,639,100
CAMERA WINDING KEY
Hugo Wehrenfennig and Ludwig Leitz, Wetzlar (Lahn), Germany, assignors to Ernst Leitz G. m. b. H., Wetzlar (Lahn), Germany, a corporation of Germany
Application April 17, 1951, Serial No. 221,361
In Germany July 10, 1950
6 Claims. (Cl. 242—71)



1. A roll film camera housing enclosing a change spool mounting and comprising a removable base cover for the camera housing and a rotatable clutch mounted thereon and having gripping elements positioned to engage the rim of a spool in said housing.

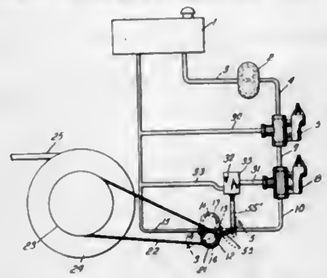
2,639,101
REEL DRIVE AND CONTROL MECHANISM
Richard T. Hair, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application February 26, 1947, Serial No. 731,120
14 Claims. (Cl. 242—90)



2. A control system for a motor operating a vehicle mounted cable reel or drum for a cable supplying electrical energy to the vehicle from an external source, comprising means operable to vary the torque of the cable reel driving motor and control means for said torque varying means including a speed responsive device operative whenever rotated at or above a predetermined rate to operate said torque varying means to effect and to maintain, so long as so driven, an increase in motor torque and means for driving said speed responsive device during rotation of the reel in a cable winding direction only.

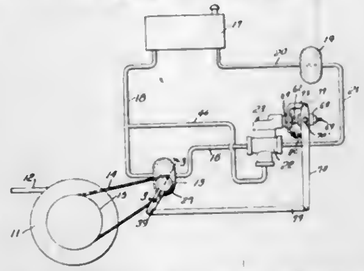
2,639,102
REELING MECHANISM FOR POWER CONDUCTORS
Charles F. Ball, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application February 26, 1947, Serial No. 731,123
25 Claims. (Cl. 242—90)

22. In a cable reeling mechanism, a cable reel, a fluid operated motor for driving said reel in cable winding direction, the pull of the cable off from the reel effecting reel rotation in a direction to drive said motor backwards, and means frictionally actuated and yieldingly held by said



reel as it turns in cable unwinding direction for automatically reducing the back pressure on said motor when cable is pulled off of the reel, to reduce the resistance to reel-rotation.

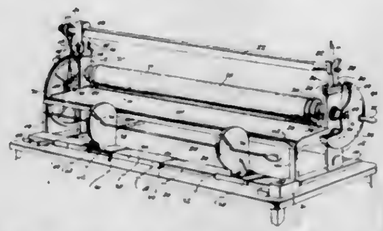
2,639,103
VEHICLE REEL CONTROL
Charles F. Ball and Richard T. Hair, Franklin, Pa., assignors to Joy Manufacturing Company, a corporation of Pennsylvania
Application February 26, 1947, Serial No. 731,125
19 Claims. (Cl. 242—90)



2. In combination, a vehicle supported cable reel having a conductor cable wound thereon and having a motor-pump device connected in driving relation to it, a pump for supplying operating fluid for said motor-pump device, a reservoir, conduits respectively constituting an intake line for the pump from the reservoir, an operating fluid delivery line between the pump and the motor-pump device, and an alternatively intake and discharge line between the reservoir and the motor-pump device, and means for permitting the escape of fluid from said operating fluid line at different predetermined pressures, including a single relief valve and means for rendering the same operative to effect relief at different predetermined pressures, said relief valve having a single connection with the reservoir.

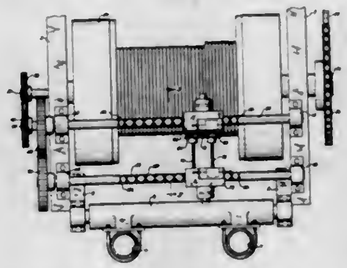
2,639,104
ROLL HOLDER
Bernard A. Gustafson, Kewanee, and John Hugo Wahlbeck, Kankakee, Ill.
Application February 9, 1949, Serial No. 75,442
7 Claims. (Cl. 242—139)

1. An adjustable holder for roll paper and like material comprising an elongated fixed base, opposed members at least one of which is longitudinally movable of said base, a pair of roll supporting standards supported respectively upon said opposed members, yieldable means urging said opposed members to a position of minimum spacing, a third member movable independently of said opposed members when the spacing between said standards is to be varied a distance



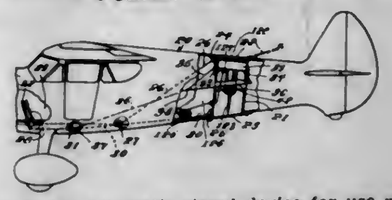
corresponding to a variation desired in the spacing of said standards to render the yieldable means ineffective to bias said opposed members, said third member and said opposed members being coaxial, and releasable means to lock said independently movable member against independent movement and thereby render said yieldable means effective to bias said standards against separation.

2,639,105
TRAVERSING MECHANISM
Willie W. Farrar, Wichita Falls, Tex.
Application May 24, 1949, Serial No. 95,042
6 Claims. (Cl. 242—158)



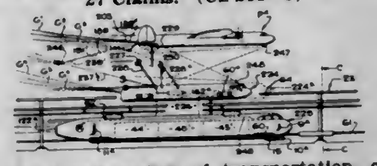
1. A level winding device for a cable receiving drum comprising a pair of parallel screw shafts spaced apart and mounted a spaced distance from the axis of said drum, a carriage supported on each of the screw shafts for traversing movement longitudinally of said drum, a pair of parallel transverse shafts supported between said carriages in universal bearings so as to permit angular movement of said parallel transverse shafts with respect to said parallel screw shafts, cable guiding means positioned on said parallel transverse shafts in position to engage opposite sides of a cable being spooled onto said drum, said cable engaging means being adapted to move along said parallel transverse shafts transversely of said drum while said carriages are moving longitudinally of said parallel screw shafts, gear means for driving said parallel screw shafts in a unity ratio and gear means for driving said parallel screw shafts at a predetermined ratio to said drum.

2,639,106
AUTOMATIC SIGNAL FLARE AND MARKER BUOY
Michael Sesera, West Orange, N. J.
Application July 15, 1949, Serial No. 104,907
5 Claims. (Cl. 244—1)



4. In an automatic signal device for use with an airplane the improvement comprising a casing mounted in said airplane for retaining the signal device therein, said casing having remote controlled spring hinged doors, a buoyant body in said casing having a flare containing portion thereon, flares in said portion, a plurality of apertured discs in said flare containing portion engaging said flares to retain the same in spaced relation to each other, an electrical source of current connected to said flares and means carried by said body and connected to said flares and to said source of current for causing ignition of said flares by said source of current upon the opening of the doors of said container.

2,639,107
INTERCOOPERATIVE SYSTEM FOR AIR-BORNE AND SURFACE CARRIERS
Owen Brown, Los Angeles, Calif.
Application November 1, 1946, Serial No. 707,153
27 Claims. (Cl. 244—3)

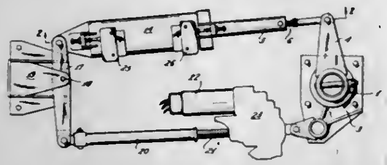


1. In a new system of transportation, components in combination including: a duality of locomotive bodies traveling at coordinated speeds, one of said bodies having burden-handling tackle which comprises a winch, a master burden-line payable therefrom, and means associated with this line which connects it releasably to at least one subsidiary burden-line at the opposite end of which trails an airborne glider craft, in combination, to be switched in midair to the other of said bodies; a transfer line on said one of said bodies, said transfer line being releasable in its entirety from one locomotive body to the other and bearing a member operable to connect it releasably to said subsidiary burden-line, independently of the connection between the latter and said master burden-line, as well as a sectional portion which is releasably supported in the path of travel of line-engaging means extendable from the other of said locomotive bodies.

2,639,108
AIRPLANE TRIM CONTROL
Thomas A. Feeney, Los Angeles, and Stanley A. Hall, Gardena, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application April 30, 1948, Serial No. 24,226
14 Claims. (Cl. 244—83)

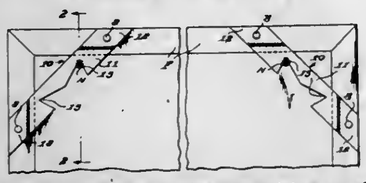
1. In combination with an airplane control, elastic means exerting opposed restoring forces

on said control from predetermined points in the airplane having said control to maintain said control in a neutral position, power operated means, including a power circuit, connected to shift said points in said airplane when energized, sensing means associated with the elastic means and included in said power circuit for detecting



the direction of movement of said control by the pilot against one or the other of said restoring forces, and means operated by the pilot of said airplane to complete the power circuit for energizing said power operated means and to move said points in said airplane in the direction determined by said sensing means to equalize said restoring forces at a new neutral position.

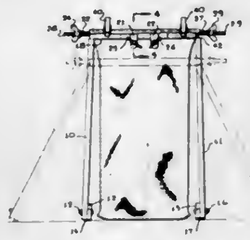
2,639,109
PICTURE HANGING BRACKET
Marion R. Hoag, Chicago, Ill.
Application March 1, 1949, Serial No. 79,101
3 Claims. (Cl. 248—29)



1. A frame hanging device comprising an elongated relatively wide metallic strip including coplanar end portions providing supporting feet, and a relatively long plane central portion laterally offset from the end portions, the strip having parallel side edges and end edges which converge toward one side edge at an angle of 45° thereto, whereby one side edge is longer than the other, the material of the strip being cut out inwardly from the central portion of the longer side edge providing therefor a pair of fastener receiving notches spaced longitudinally of the strip and said notches being defined by side edges merging into apices in equally spaced relation from the transverse center line of the strip.

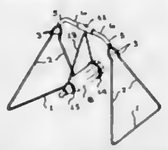
2,639,110
BAG HOLDER
William A. Nicolas, Girard, Kans.
Application April 28, 1950, Serial No. 158,707
2 Claims. (Cl. 248—99)

2. A bag holder comprising a pair of elongated legs each having a foot at one end extending to opposite sides thereof and having a tapered aperture extending therethrough at its other end, an annular band of flexible material having overlapping ends and spaced apart apertures therein, clamp means on said band securing the ends thereof together at selected positions of adjustment relative to each other to adjustably vary the size of said band, each of said legs having the aperture therein in registry with a corresponding aperture in said band with the smaller ends of the tapered leg apertures adjacent the band, bolts extending one through each leg aperture and through the corresponding aperture in said band, a coil compression spring surrounding each bolt at the outer side of said band, nuts threaded one onto each bolt compressing the corresponding springs, said tapered leg apertures



and said springs providing limited freedom of angular movement of said legs relative to said band, and clips loosely attached to said band at spaced apart intervals therearound and operative to secure a bag at its open end to said band to depend from said band between said legs.

2,639,111
NURSING BOTTLE HOLDER
Sylvanus A. Wells, Daytona Beach, Fla.
Application July 24, 1951, Serial No. 238,199
5 Claims. (Cl. 248—105)

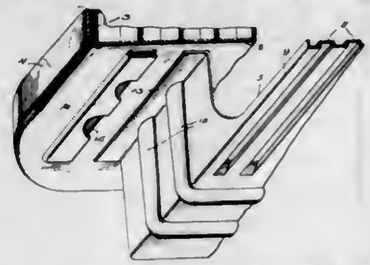


1. A nursing bottle holder including a pair of spaced, upwardly extended supports; clamping sleeves having outer end portions clampably engaged with the upper ends of the respective supports and spaced apart, coaxial inner end portions extended toward one another across the space between the supports, the inner ends of said inner end portions having arcuate, transverse recesses opening upon the space therebetween; a connecting sleeve coaxial with said inner end portions and medially disposed between said supports, the inner end portions extending into opposite ends of the connecting sleeve; a pin extending transversely through the connecting sleeve and engageable in the recesses to prevent relative rotation between the connecting and clamping sleeves; and means depending from the pin and adapted for supporting a nursing bottle in the space between the supports.

2,639,112
PALLET
Walton W. Cushman, Webb City, Mo.
Application April 9, 1948, Serial No. 20,120
5 Claims. (Cl. 248—120)
(Granted under Title 35, U. S. Code (1952), sec. 266)

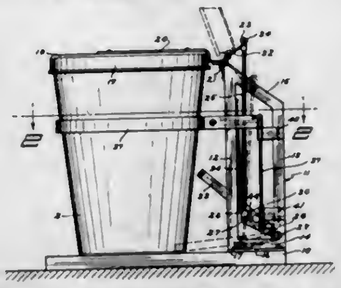
1. A knockdown pallet including a body portion, a pair of spaced clips secured to the underside of the body portion and arranged in opposed relationship, said clips provided with opposed cut-out portions, a detachable substantially U-shaped leg of resilient material, a flange

on the upper end of each arm of the U-shaped leg for engaging a clip, and a protuberance on



each arm of the leg for interlocking with the wall of the cut-out portion.

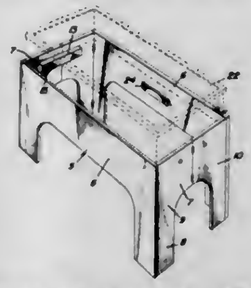
2,639,113
TRASH CAN HOLDER
Stanley E. Kriz, Hopkins, Minn.
Application May 17, 1951, Serial No. 226,784
3 Claims. (Cl. 248—147)



1. A device for holding and covering a trash container which comprises an upright frame, holding means on the frame extending laterally outward therefrom to engage the sides of a container to prevent sidewise movement of the container, said means including a container engaging arm hinged to the frame on a vertical axis allowing the same to be manually swung outwardly away from the container to release the container from said holding means, a cover hinged to the frame for opening and closing over the container and having an actuating lever arm thereon adapted to raise the cover to an open position when moved downwardly, an inclined member having one end pivoted to the frame and its other end associated with the lever arm to lower the lever arm as said member is moved downwardly about its pivot, and a finger portion on said container engaging arm adapted to engage said member and move it downwardly about its pivot as said container arm is swung to a container releasing position to simultaneously open the cover.

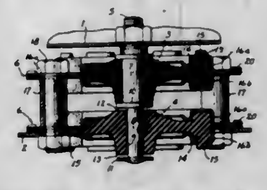
2,639,114
COLLAPSIBLE ADJUSTABLE SUPPORTING BASE FOR PINBALL MACHINES
Ormand E. Allen, Geneva-on-the-Lake, Ohio
Application October 14, 1949, Serial No. 121,391
1 Claim. (Cl. 248—167)

A supporting base for a coin controlled machine comprising a pair of opposite side walls and end walls each including a pair of sections hinged to the side walls and having vertical edges hinged together for folding of said end walls inwardly between said side walls, said base adapted to receive a machine within the upper portion of the same, and means on said end wall adapted to support a machine and to prevent the end walls from



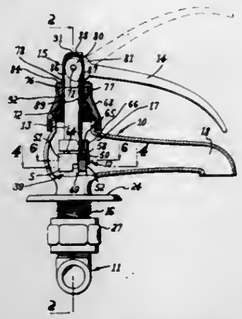
folding comprising horizontal rails extended across said end walls adjacent the upper edges thereof and across the hinged together edges of the sections, and vertical slots in said rails and bolts on said sections extending through said slots and providing for vertical sliding and tilting of said rails to level the machine.

2,639,115
ANTIVIBRATION MOUNTING
Robert Iredell, Jr., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 9, 1945, Serial No. 603,875
8 Claims. (Cl. 248—358)



5. A mounting comprising main and auxiliary flexible annuli of rubberlike material having less axial thickness than diameter having intermediate portions thinner than inner and outer portions having stress-strain curves of the same order and resisting deflection by both compression and tension and separated from each other, an inner connector for connecting central regions of said annuli together and to one of two members to be subjected to relative vibrational movement, an outer connector for connecting the peripheral portions of said annuli together and to the other of said two members, one of said connectors engaging both of said annuli and the other of said connectors engaging said main annulus and loosely connecting to the auxiliary annulus to provide axial space for lost motion between said connector and said auxiliary annulus, whereby said auxiliary annulus deflects only after the axial space for lost motion is taken up by a predetermined amount of axial deflection and the auxiliary annulus sustains a portion of the load of the system and shifts the natural frequency thereof, said annuli and said mounting resisting deflection only by strain in said annuli, said auxiliary annulus being unenclosed with free air circulation top and bottom.

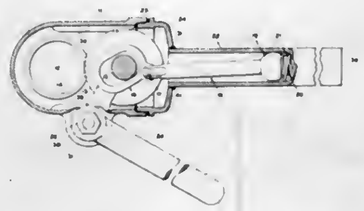
2,639,116
VALVE STRUCTURE
William P. Green, Los Angeles, Calif.
Application April 26, 1949, Serial No. 89,765
26 Claims. (Cl. 251—4)



1. A device comprising a body structure containing a fluid conducting chamber, an axially and rotatably movable valve stem extending from said chamber through a wall of said body structure to project outwardly therefrom, valve means within said chamber and operable by axial and rotational movement of said stem to control both the total rate of fluid flow through a pair of fluid passing openings communicating with said chamber and the proportion of said total flow passing through each opening, a handle, means mounting said handle to said stem at the outside of the body for pivotal movement about an axis extending transversely of said stem, said mounting means rotatably interconnecting said handle and stem whereby swinging movement of said handle about the axis of said stem effects rotation of said stem, said handle having a first curved surface facing said body wall and of a changing radius relative to said transverse axis, said handle having also a second curved surface facing away from said body wall, and a spring bearing against said second curved surface of the handle to urge the handle toward said body wall and to maintain said first curved surface in engagement with a transversely extending surface at the outside of said body wall, whereby said pivotal movement of the handle effects predetermined axial displacement of the stem by virtue of the changing radius of said first handle surface.

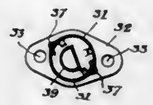
2,639,117
SPRING CLOSED PIVOTED GATE LIQUID LOADING VALVE
Rufus W. Hogard, Kansas City, Kans., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 29, 1947, Serial No. 794,359
1 Claim. (Cl. 251—125)

In a valve adapted for the control of the flow of liquid, the combination comprising, a body member having a conduit therethrough and a side extension the axis of which is normal to the axis of said conduit, a pair of circular ported seats disposed rigidly in said body member at a spaced distance from one another, said seats being adapted to permit flow of liquid therethrough, a pair of movable closure discs, said pair of closure discs being mounted on a shaft at a spaced distance apart and being adapted to move slidably, linearly and simultaneously to open and to close said valve to the flow of liquid through said conduit, a pair of linear guide flanges on the inner wall of said body member disposed parallel to the axis of said side extension for guiding linearly the opening and closing movement of each of said movable closure discs, a swivel yoke member pivoted to said body member, loosely surrounding said shaft intermediate said closure discs, and disposed to swing about said pivot, an elongated hollow and nonperforate cylindrical member having one nonperforate end and attached at its other end liquid-tight to the wall of said side extension and being disposed axially thereto, an elongated rod



pivoted at one end to said yoke member so that said end swings with said yoke member and the other end terminates within said cylinder as a ball piston, a helical compression spring in said cylinder intermediate said ball piston and said nonperforate end of said cylinder, the outer diameter of the spring helix being substantially equal to the inner diameter of the cylindrical member, said spring biasing said rod to close said closure discs in a normally closed position against said ported seats, and a hand lever means connected to said yoke member at said first named pivot for moving slidably said pair of closure discs away from and to open said pair of seats to the flow of liquid and against the bias of said spring.

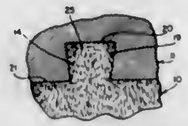
2,639,118
ROTATION INDICATOR FOR PLUG-COCK TYPE OF VALVES
John E. Stott, Wallaceburg, Ontario, Canada, assignor to Wallaceburg Brass Limited, Wallaceburg, Ontario, Canada, a corporation of Canada
Application July 24, 1950, Serial No. 175,515
In Canada May 5, 1950
4 Claims. (Cl. 251—163)



1. A detent mechanism for a valve, comprising a fixed casing adapted to surround a length of a valve operating stem, said casing having a generally circular inner wall substantially parallel to the axis of rotation of the valve stem, means within said casing having an opening to receive the valve stem to rotate therewith in either direction, said means having at least two diametrically opposed spring arms, each of which has a U-shaped portion bearing against the inner surface of said wall of said casing, said wall of said casing having at least two diametrically opposed U-

shaped recesses to receive said U-shaped portions thereby forming a detent at a predetermined degree of rotation of the valve stem.

2,639,119
ROTOR BLADE ATTACHMENT MEANS AND METHOD
Harold A. Greenwald, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application November 14, 1947, Serial No. 785,880
9 Claims. (Cl. 253—77)



6. In combination, two metal elements, one element being formed of harder material more resistant to deformation than the material of the other element, one element being a rotor, the other a blade, the element formed of said harder material having a dovetailed groove, a dovetailed rib on the other element extending into and closely conforming to the groove, said rib having the fibers of its metal curved, interlocked and following generally the contours of the surfaces of the rib, and metal of the two elements united in a weld at said groove and rib.

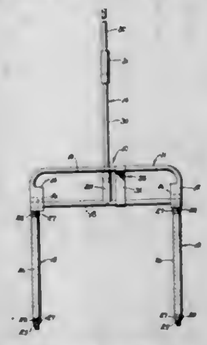
2,639,120
TRAILER TONGUE AND ADJUSTABLE HITCHING STAND THEREFOR
Ottmar R. Gruber, Fontanelle, Iowa
Application May 16, 1951, Serial No. 226,603
4 Claims. (Cl. 254—86)



1. In combination, a mobile vehicle embodying a horizontal draft tongue, an adapter fixture embodying upper and lower plates bolted on the tongue, a keeper fixed on the upper plate, and a leg frame embodying channel-shaped side members slidably and pivotally connected with the respective end portions of one of said plates, said frame including a stationary jack-screw and said jack-screw being releasably engageable with said keeper.

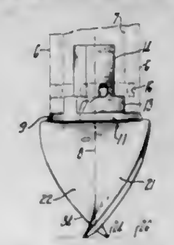
2,639,121
WHEEL-CHANGING TOOL
Clark Hudspeth, Fowler, Calif.
Application September 10, 1951, Serial No. 245,923
5 Claims. (Cl. 254—131)

1. A collapsible wheel-changing tool comprising a body member having a pair of substantially parallel legs having endwardly disposed bores and defining a receiving rack therebetween, a pair of leg extensions releasably receivable in the bores of the legs, a handle releasably mountable in the body member, said handle and leg extensions being receivable by the rack in nested re-



lation, and means for releasably retaining the handle and the leg extensions in the rack.

2,639,122
PILOT BIT FOR EARTH AUGERS
Gerald A. Petersen, San Francisco, Calif.
Application November 1, 1949, Serial No. 124,888
1 Claim. (Cl. 255—61)

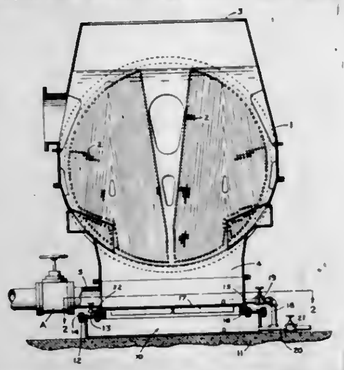


A pilot bit for earth augers comprising a shank adapted to rotate in a predetermined direction about an axis to bore a hole of predetermined circumference, a pair of identical blade members depending from said shank, each of said blade members having a helical leading surface generated throughout its length by a right line moving in a downward direction in a substantially helical curve, said line being tangent to a small circle concentric with said axis and located between the perimeter of said bore and said axis, said leading surface terminating in a leading edge disposed in a plane perpendicular to said axis on a right line tangent to said small circle, said leading edge extending from said small circle to a point on said circumference of said hole, the outer margins of said blade members receding from said points on said circumference to a lesser diameter in a spiral plan as said margin ascends from said leading edge.

2,639,123
SURFACE CONDENSER AND SUPPORT THEREFOR
John F. Grace, Arlington, N. J., assignor to Worthington Corporation, Harrison, N. J., a corporation of Delaware
Application November 15, 1951, Serial No. 256,558
8 Claims. (Cl. 257—43)

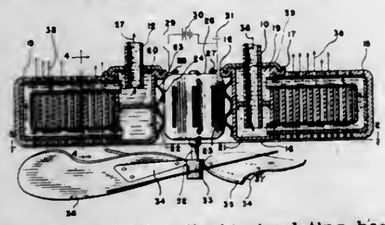
1. In a surface condenser embodying a shell, a hollow tank beneath the bottom of the shell, a

flexible connection between the tank and shell, an inlet pipe for admitting fluid to said tank, and



an outlet pipe for permitting removal of fluid from the tank.

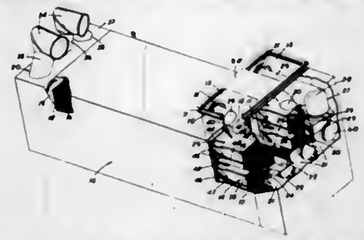
2,639,124
ANNULAR CORE AUTOMOBILE HEATER WITH FAN AND SUPPORT THEREFOR
Heinrich Stein, Chicago, Ill.
Application May 16, 1951, Serial No. 226,620
1 Claim. (Cl. 257—137)



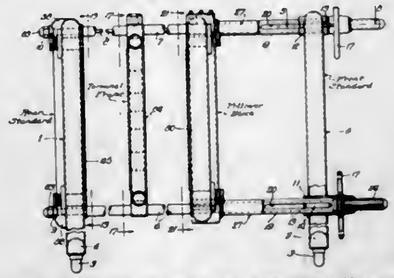
A blower radiating liquid circulating heater, comprising in combination liquid circulating radiator means provided with a central core structure, corrugated and resilient heat insulating means secured within the said central core structure, prime mover means retained frictionally within the confines of the said corrugated and resilient heat insulating means, and blower fan means mounted below the said prime mover to dissipate the heated air currents from the said circulating heater.

2,639,125
FLUID TO FLUID HEAT EXCHANGER
Geoffrey Bertram Robert Feilden, Lincoln, and Raymond Ernest Wigg, Ealing Common, London, England, assignors to Ruston & Hornsby Limited, Lincoln, England, a British company
Application April 10, 1950, Serial No. 155,032
In Great Britain April 14, 1949
7 Claims. (Cl. 257—236)

1. A multi-block tubular heat-exchanger comprising an outer casing, a transverse bulkhead having openings therein and dividing the interior of the casing into two compartments, one compartment having an inlet opening and the other compartment having an outlet opening, a collector member in each compartment extending outside the casing for admission of fluid to one collector member and discharge of fluid from the other collector member, said collector members having openings therein, a number of closely spaced parallel tube-blocks, each comprising an open-ended tubular casing inserted through one of the openings of the bulkhead and secured to the bulkhead in a substantially fluid-tight manner, a bundle of closely spaced parallel tubes housed in said open-ended casing and extending beyond both open ends thereof, and a header plate secured to the tube ends at each end of the tube-block, one of said header plates being secured in a fluid-tight manner to the collector member in one compartment of the casing so as to register with an opening thereof, a tubular cowl-like extension of the other header plate registering with an opening of the other collector member, and a fluid-tight expansion joint between the cowl-like extension and the last-named collectors member permitting movement of the cowl-like extension relatively to the collector member in the axial direction of the tube-block.

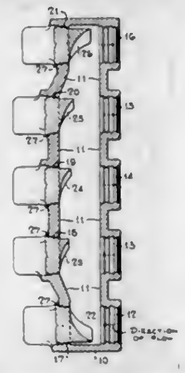


2,639,126
PLATE APPARATUS AND PRESS
Benjamin G. Newhall, Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Application February 24, 1947, Serial No. 730,639
13 Claims. (Cl. 257—245)



13. In a device of the class described the combination of a frame having a fixed vertically disposed end wall upon one side of which is provided a compression face having a top margin, a bottom margin, and spaced sides extending therebetween, an upper support member adjacent the top margin of said compression face, substantially centered between the respective sides thereof, and projecting substantially perpendicularly therefrom, a lower support member adjacent the bottom margin of said compression face, substantially centered between the respective sides thereof, and projecting therefrom in substantially parallel relation with respect to said upper support member, a movable wall member having roller means whereby said movable wall member is slidably suspended from said upper support member and having a compression face corresponding to the compression face of said vertically disposed end wall and facing theretoward, said movable wall member having a lower notch adapted to straddle said lower support member whereby said movable wall member is stabilized against lateral displacement, a plurality of plate-like element substantially corresponding with the compression faces of the end wall and the movable wall member, respectively, and interposed therebetween, each of said plate-like elements being provided with an upper peripheral notch and a lower peripheral notch, said upper and lower notches being engaged in straddling relation with the respective upper and lower support members with clearance, said plate-like elements being supported on the lower support member and stabilized against lateral displacement by said upper support member, and pressure exerting means engageable with a portion of said frame and adapted selectively to bear against said movable wall member and exert pressure thereagainst toward said fixed end wall to engage said plate-like elements therebetween.

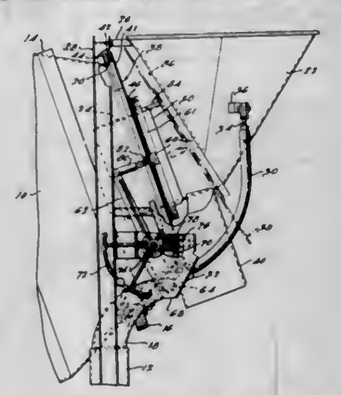
2,639,127
RETURN BEND FOR FIRED COILS
Herman M. Becnel, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 30, 1950, Serial No. 198,288
3 Claims. (Cl. 259—4)



1. Improved return bend header comprising a header provided with a passage having a plurality of inlet and outlet orifices located in one wall communicating with said passage having a plurality of openings communicating with said passage on the opposite wall, closure plugs in said openings extending into said passage, said closure plugs being characterized by the two outside plugs having a surface curved to conform with the direction of flow with respect to said orifices, said intermediate closure plugs having an inner surface curvature oriented in the same direction as the curvature of said outside plug opposite the exit orifice.

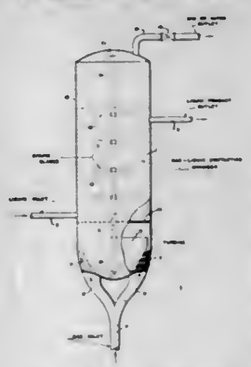
2,639,128
MIXER CLOSURE
Chris Gerst, Detroit, Mich., assignor to The Transmission & Gear Company, Dearborn, Mich., a corporation of Michigan
Application January 22, 1952, Serial No. 267,659
9 Claims. (Cl. 259—161)

1. In a concrete mixer having a rotatable drum provided with an opening therein through which material may be discharged from said drum, a charging hopper supported in fixed relation relative to said drum and having a cylindrical portion thereof projecting through said opening into said drum for charging material into said drum, an annular closure rotatable about said cylindrical portion of said hopper and axially shiftable relative to said drum and hopper and engageable with said drum about said opening for sealing said opening, said closure



being rotatable with said drum when in engagement therewith, means between said closure and said cylindrical portion of said hopper for forming a seal therebetween, a nonrotatable yoke member and an operating lever therefor for shifting said yoke member toward and away from said drum, said closure being connected to said yoke member for movement therewith toward and away from said drum and being rotatably supported thereby.

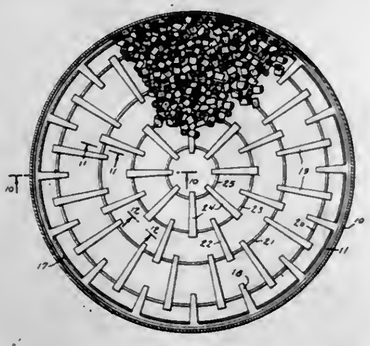
2,639,129
APPARATUS FOR EFFECTING GAS-LIQUID MIXING
Armand J. de Rosset, Clarendon Hills, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 31, 1951, Serial No. 208,724
3 Claims. (Cl. 261—93)



1. A gas-liquid mixing apparatus comprising in combination a confined pressure tight chamber having liquid inlet and outlet means connecting thereto and a liquid retaining section therein, a

turbine within one end of said chamber, gas outlet means from the opposite end of the chamber, a rotatable shaft having mixing blades extending therefrom connecting with said turbine, said shaft extending axially through the interior of said confined chamber, a gas inlet connecting to said chamber and to the intake end of said turbine in a manner operating the latter and effecting the rotation of said shaft and mixing blades, and a perforated plate extending across the interior of said chamber between said turbine and said liquid retaining section.

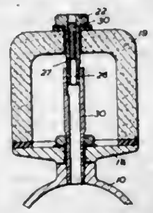
2,639,130
APPARATUS FOR EQUALIZING DISTRIBUTION IN PACKED COLUMNS
Peter N. Heere, South Plainfield, N. J.
Application November 27, 1948, Serial No. 62,256
1 Claim. (Cl. 261—97)



A packed column having distributors in vertically spaced superposed relation, said distributors having collecting rings in intimate engagement with the column wall to collect any liquid running down said wall and having vanes radially inclined to the horizontal extending from these collecting rings to distribute evenly liquid collected by the rings together with liquid intercepted by these vanes and the packed column having further vanes radially inclined to the horizontal located in even order across the area of the column, means for indirectly attaching said further vanes to said collecting rings for support thereby in circumferentially staggered relation to said first named vanes, the latter vanes radially inclined and serving as intermediate interceptors and distributors of liquid in the column proper.

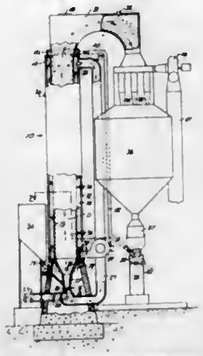
2,639,131
DIFFUSER FOR GASES
Eric Procter Coombs, Finchley, London, England, assignor to Activated Sludge Limited, London, England, a British company
Application October 27, 1949, Serial No. 123,889
In Great Britain November 19, 1948
3 Claims. (Cl. 261—122)

1. A diffuser for diffusing air into liquids comprising a diffuser pipe, a tubular stem having a screw threaded and open upper end and projecting from said pipe and in communication with the interior thereof for the flow of air or other gas from the diffuser pipe through the stem, a hollow dome having porous walls and a bolt hole in its crown-part and mounted on the diffuser pipe and over said stem, seal means between said dome and said diffuser pipe for sealing the mounting of said dome on said pipe in a substantially airtight manner, a screw threaded bolt having a tubular shank passing through said bolt hole in the crown of the porous dome and screwed onto said tubular stem so that it can be



removed without disturbing said dome, and seal means between said dome and said bolt for closing the bolt hole in a substantially airtight manner, the tubular shank of the bolt having an orifice for the discharge of air from the tubular stem to the interior of the hollow porous dome.

2,639,132
PROCESSING FURNACE FOR DISCRETE SOLIDS
James H. Bradford, Tooele, Utah, assignor of one-half to Combined Metals Reduction Company, a corporation of Utah
Application August 13, 1948, Serial No. 44,194
11 Claims. (Cl. 263—21)

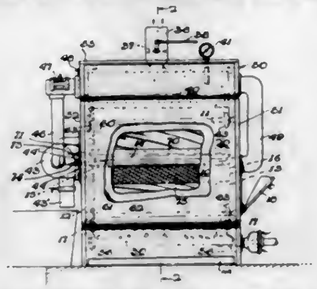


1. Processing apparatus, comprising a substantially vertical tubular shell defining therein a reaction chamber of given cross-sectional area; a Venturi-tube burner, having a discharge mouth of less than the given cross-sectional area, in communication with said reaction chamber; means defining an air jacket around said tubular shell; a circulator for propelling cooling air into, through, and out of said air-jacket; a source of fluid fuel supply leading into said burner; and means for supplying material to be processed in said reaction chamber.

2,639,133
COFFEE ROASTER
Patrick T. Clary, Carnegie, Pa.
Application August 26, 1949, Serial No. 112,422
1 Claim. (Cl. 263—33)

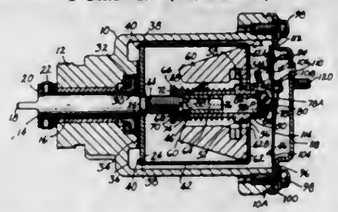
A roaster for coffee beans and similar bean-like materials comprising an outer insulated housing, a rotary drum mounted for rotation in

the housing, an insulated casing about the drum, a burner manifold mounted at the bottom of the drum and longitudinally thereof, means for introducing combustion air to said burner and directing the products of combustion through the space between the rotary drum and the insulated casing, a second fixed drum mounted above the rotary drum, a second insulating casing surrounding and spaced from the fixed drum and continuous with the first insulated casing, means comprising a hot air pipe connecting the said



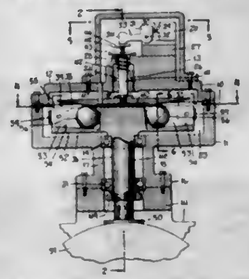
rotary drum and the stationary drum, and means for discharging heated air from the said stationary drum to the rotary drum and circulating same comprising a valved discharge line, cold air valving means in said discharge line, a blower connecting said discharge line and the rotary drum, whereby the rotary drum and the stationary hot air heater are directly heated by the products of combustion of the burner, and the coffee in the rotary drum is continuously heated by a separate recycled stream of hot air.

2,639,134
CENTRIFUGAL GOVERNOR
John C. Winslow and Clinton B. Boothby, Toledo, Ohio
Application February 24, 1949, Serial No. 78,106
8 Claims. (Cl. 264—3)



1. In a device of the class described, a rotatable cup having a perforated bottom, means to support the cup for rotation, sectional weights mounted in the cup for rotation therewith and free to rotate separately within the cup, fulcrum means for the weights adjacent the bottom thereof at the inner periphery of the cup, resilient means concentric with the axis of rotation cooperating with the weights and adapted to be moved along the axis of rotation by the centrifugal force active on the weights during rotation thereof acting through said fulcrum means, adjustable spring means to bias the resilient means to an initial position, sleeve means cooperating with said resilient means to perform a function to be controlled by said centrifugal force active on said weights, said sleeve means being adapted for manual manipulation, and means acting between the sleeve means and the adjustable spring means when the sleeve is manually manipulatd to vary the bias of the adjustable spring means.

2,639,135
SPEED-CONTROLLED ACTUATING DEVICE
Harry E. Sloan, Hartford, Conn., assignor to The Cushman Chuck Company, Hartford, Conn., a corporation of Connecticut
Application October 10, 1950, Serial No. 189,339
9 Claims. (Cl. 264—3)

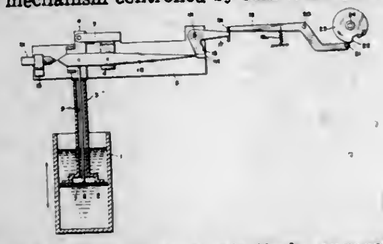


1. A speed-responsive device, comprising a driver mounted for rotation about a substantially vertical axis and provided in its top with identical, substantially radially extending guideways terminating at their inner ends short of the rotary axis of said driver and having inwardly and downwardly inclined bottoms, respectively; identical balls received with a rolling fit in said guideways, respectively, and normally gravitating toward the respective inner ends thereof, said balls projecting above their respective guideways in any positions therein; a follower disc disposed above said driver in coaxial alignment therewith and being axially movable, said disc having a bottom surface riding on said balls and forming with the inclined bottoms of the adjacent guideways identical angles, respectively, so that said disc is raised and lowered on movement of said balls in opposite directions, respectively, in their respective guideways and will hinder gravitational inward movement of said balls in their respective guideways; and spring means partly counterbalancing said disc to permit said balls, despite the residual weight of said disc thereon, to gravitate toward the inner ends of their respective guideways as said driver comes to rest.

2,639,136
FLUID PRESSURE OPERATED LOCKING DEVICE FOR REGISTERING APPARATUS OF WEIGHING SCALES
Adrianus van Duyn, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind., a corporation of Indiana
Application June 26, 1951, Serial No. 233,507
In the Netherlands July 8, 1950
1 Claim. (Cl. 265—5)

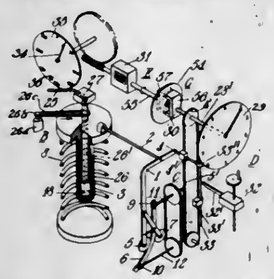
A weighing apparatus having a vessel adapted to contain a fluid, two pistons arranged one within the other in the vessel, said vessel being adapted to move relatively with respect to said pistons under the influence of a weighing mechanism, one of said pistons being relatively movable with respect to the other in response to the pressure of said fluid, a pivotally mounted locking member connected with said movable piston for responsive movement, a rotatable shaft

adapted to operate a registering apparatus, a stop mechanism mounted for rotation with said shaft, and mechanism controlled by said locking mem-



ber and having means selectively engageable with said stop member to prevent rotation of said shaft only when said movable piston is in motion.

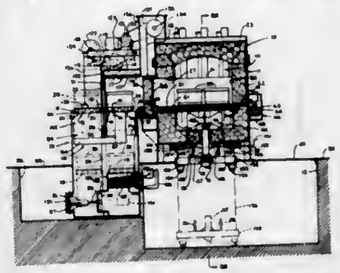
2,639,137
AUTOMATIC WEIGHING GEAR
Frederick David Minors Gamble, London, England, assignor of one-half to Samuel Williams & Sons, Limited, London, England
Application September 1, 1949, Serial No. 113,541
In Great Britain September 6, 1948
8 Claims. (Cl. 265—28)



1. Automatic weighing gear for a crane incorporating a load balancing unit comprising a piston, a liquid-containing cylinder, a flexible diaphragm therebetween, a relay valve, mechanical connecting means between said piston and said valve, a source of pressure liquid, a weighing liquid-containing cylinder, a connecting duct between said latter cylinder and said former cylinder, a piston in said latter cylinder, a spring associated with said latter cylinder, apparatus compensating for departure from specified rate and linearity of said spring and for variations in weight of rope between load and load balancing unit, gross weight indicating apparatus, net load measuring apparatus connected thereto by means for deducting the tare weight from the gross load and net load integrating apparatus comprising a high-speed-acting clutch and a switch for controlling action of said clutch co-acting with said compensating apparatus.

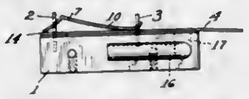
2,639,138
HEAT-TREATING APPARATUS
John A. Dow, Huntington Woods, Mich.; Doris B. Dow, administratrix of said John A. Dow, deceased, assignor to Doris B. Dow, Royal Oak, Mich., as trustee
Application October 28, 1947, Serial No. 782,647
4 Claims. (Cl. 266—4)

1. A heat treating apparatus useful in the art of heat treating metal work comprising an elevator, quenching means for work associated with said elevator, said quenching means comprising a tank of quenching fluid beneath the normal upper position of said elevator, said tank having circulating means therein beneath the level of said quenching fluid, said elevator being provided with drive means for moving said elevator into operative position with respect to said circulating means, said circulating means being operable for circulating said quenching fluid over said work and in intimate contact therewith when said elevator is in operative position with respect to



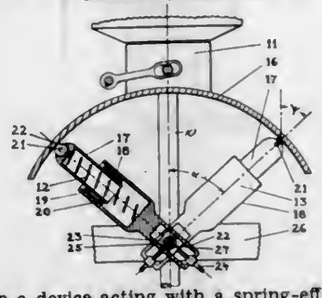
said circulating means, said elevator comprising a frame adapted to register with an opening in said circulating means and being provided with a removable work container having side walls adapted to register with said frame and a perforated bottom wall within said side walls, said frame and said side walls when in registry being adapted to direct said quenching fluid over said work during the operation of said circulating means, and to prevent circulation of said quenching fluid without passing directly in contact with said work.

2,639,139
SPRING BIASED ACTUATOR
George W. Carlson, Wayne, Mich., assignor to Robotyper Corporation, Detroit, Mich., a corporation of Michigan
Application September 23, 1948, Serial No. 50,746
4 Claims. (Cl. 267—1)



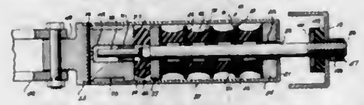
1. In an actuator, a support, an operating member comprising a flat strip adapted to normally lie flat on said support, and having an opening adjacent an end thereof and an elongated slot positioned inwardly from said opening, a pair of pins projecting upwardly from said support and extending through said opening and slot, respectively, for positioning said strip on said support, and a strip of spring steel formed of two parts extending angularly relative to each other, one of said parts being relatively short and having an opening slightly larger than and receiving the pin extending through said operating strip opening to mount said spring strip on said support with the end of said short part engaged with the end of said operating strip adjacent the opening therein, the other of said parts being relatively long and in resilient engagement with said operating strip adjacent said elongated slot when said shorter part is mounted on said pin, said other part being resiliently yieldable to allow pivotal movement of said operating strip about an axis extending transversely thereof and adjacent said end, said pins and spring being operative to restrain said operating strip against movement about axes other than said pivotal axis.

2,639,140
VARIABLE RATE SPRING DEVICE
Meyer Frenkel, London, England
Application December 18, 1948, Serial No. 66,127
In Great Britain December 24, 1947
7 Claims. (Cl. 267—1)



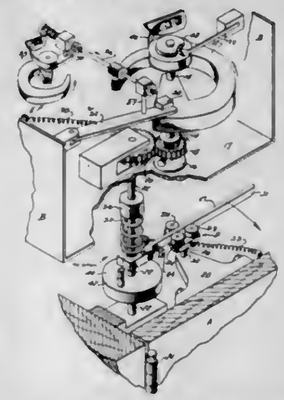
1. In a device acting with a spring-effect, the combination of at least two members, of a first guide-means for permitting relative motion of said two members only along a straight line which is the line of action of said device, of a spring means comprising at least one spring and a second guide-means for permitting deflection of said spring only along a straight line which is the line of action of said spring means, of a first engagement means between said spring means and a first of said members for maintaining the line of action of said spring means at the same inclination to the line of action of said device during operation of said device, of a second engagement means between said spring means and a second of said members for effecting movable abutment of said spring means against an abutment surface on said second member, and of means connected to said first engagement means for adjusting the angle formed between the line of action of said spring means and the line of action of said device to effect adjustment of the rate of the spring effect of said device.

2,639,141
SHOCK-ABSORBING MECHANISM
Gustave O. Gabriel, West Haven, Conn., assignor of one-half to Perma Realty Co., New York, N. Y., a co-partnership
Application October 27, 1950, Serial No. 192,489
2 Claims. (Cl. 267—63)



1. In a shock absorbing mechanism, a casing having one end closed and the other end open, an end plate positioned within said casing adjacent said one closed end thereof, a bearing carried by said end plate, an abutment block positioned within said casing adjacent to and closing said other open end thereof, there being a bore extending longitudinally inwardly from the face of said abutment block contiguous to said end plate, a sleeve supported in said bore, a piston rod extending axially of said casing and mounted in said bearing for longitudinal sliding movement, said piston rod having one end terminating adjacent to and spaced from said abutment block and having the other end projecting exteriorly of the closed end of said casing, a piston head on the other end of said piston rod, a guide bar carried by said piston head and slidably supported in said sleeve, a stack of compressible shocks disposed in spaced relation with respect to each other and circumposed about and spaced from said piston rod between said head and said end plate, a compression plate interposed between adjacent compressible blocks, a flange on each of said compression plates extending into the space between and slidably engaging with said piston rod and adjacent shocks, means on the projecting end of said piston rod for attachment to a supporting member, and means on the face of said abutment block remote from said end plate for connection of a supporting surface thereto.

2,639,142
AUTOMATIC DOOR ACTUATOR
John Lowler Morgan and William J. Morgan, Pennsauken, N. J., assignors to Perfection Plastic Engineering Corporation, Philadelphia, Pa.
Application February 8, 1950, Serial No. 142,958
7 Claims. (Cl. 268—33)

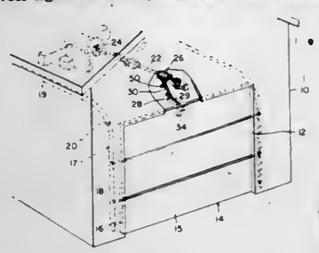


1. In combination with a door, a rotor shaft, a fixed electromagnetic solenoid of an arcuate construction, a rotor having a free end and an end attached to said rotor shaft tapering from its free end to its attached end and adapted to be drawn into said solenoid when said solenoid is energized, a second shaft, means joining said second shaft to said rotor shaft, an arm adapted to open or close said door, a member affixed to said door and engaged by said arm whereby said door is opened or closed, one end of said arm freely encircling said second shaft, and a torsional spring encircling said second shaft and having one end connected to said arm and the other end of said spring connected to said second shaft, said second shaft being adapted to turn said spring whereby the arm turns said door.

2,639,143
SAFETY DOOR ARM
Joseph J. Vaughn, Detroit, Mich., assignor, by mesne assignments, to McKee Door Company, Aurora, Ill., a corporation of Illinois
Application July 5, 1949, Serial No. 103,043
3 Claims. (Cl. 268—58)

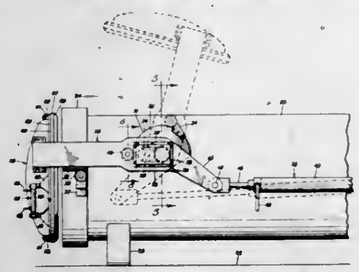
1. Releasable connector structure for an overhead garage door comprising a movable part hav-

ing a pin extending transversely to the direction of movement, a member having a hook at one end engaging said pin, a latch movably secured to said member having a surface engaging said pin opposed to said hook, yieldable means urging said latch against said pin, said latch being yield-



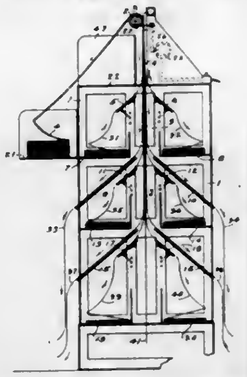
able upon exertion of a predetermined force between said latch and pin to release said member from said pin, and a lock for said member effective to prevent displacement of said hook and pin when said structure is at one limit of its movement, said locking comprising interengaging portions on said hook and part.

2,639,144
CLOSURE AND OPERATING MEANS THEREFOR
Charles A. Long, Titusville, Pa., assignor to Struthers Wells Corporation, Titusville, Pa., a corporation of Maryland
Application June 15, 1948, Serial No. 33,080
8 Claims. (Cl. 268—74)



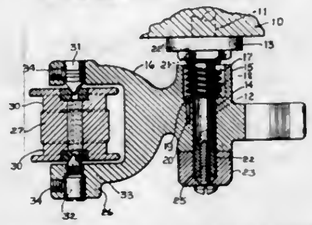
2. A closure for an opening in one end of an elongated vessel, comprising a cover adapted to close and uncover said opening, an arm arranged exteriorly of said vessel and rigidly connected to said cover, means supporting said arm on said vessel for rectilinear movement axially of said vessel a predetermined distance and also for pivotal movement about an axis extending transversely of said vessel, and a prime mover operatively connected with said arm and adapted to apply a force to said arm in a direction generally parallel to the direction of movement of said arm but spaced from said axis whereby to uncover said opening said arm is first moved rectilinearly said predetermined distance in a direction to move said cover away from said opening and thereafter said arm is pivoted about said axis thereby to move said cover to a position on one side of said vessel, said prime mover being also operable to reverse such movements of said arm whereby said cover is moved to close said opening.

2,639,145
CARBON PAPER REMOVER
Martin L. Long, Washington, D. C., assignor to the United States of America as represented by the Postmaster General
Application January 10, 1951, Serial No. 205,399
1 Claim. (Cl. 271—2.1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



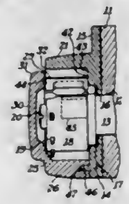
In an apparatus for removing carbon sheets from fan-folded typed copy sheets, the improvement which comprises a supporting frame provided with a central vertical passage, a copy feeding element mounted in said frame, a means for driving said feeding element, a plurality of pairs of oppositely inclined diverging copy deflectors mounted in said frame the deflectors of each pair being on opposite sides of said central passage and communicating therewith, a pair of copy receiving shelves mounted below each of said pairs of deflectors and a pair of inclined diverging carbon sheet deflectors also arranged on opposite sides of said central passage and communicating therewith, whereby fan-folded typed multiple copy sheets are separated into a plurality of sets and the plurality of used carbon sheets are discarded.

2,639,146
FILM GUIDE ROLLER FOR MOTION-PICTURE PROJECTING MACHINES
Ellis Wellington D'Arcy, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois
Application September 9, 1950, Serial No. 184,030
2 Claims. (Cl. 271—2.3)



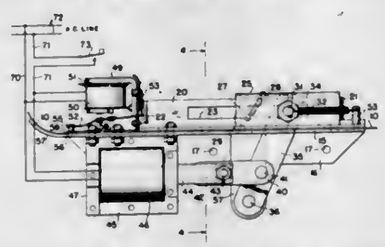
1. In a combination comprising a stud shaft, a yoke having an integrally formed bearing sleeve and an opening through the sleeve through which the stud shaft is projected, said sleeve having an enlarged counterbore communicating with the opening, a stop nut mounted on the stud shaft adjacent said counterbore, an expansion spring embracing said stud shaft and arranged in the counterbore and having one end portion connected to the stop nut and an opposite end portion connected to the bearing sleeve, a lock nut threaded on the outer end portion of the stud shaft and adapted to bear against the bearing sleeve for shifting the sleeve longitudinally with respect to the stud shaft against the action of the expansion spring, a roller carried by said yoke, said spring acting on said yoke to bias said roller with respect to said stud shaft.

2,639,147
SPROCKET ENCLOSING SYSTEM
Henry N. Fairbanks, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 1, 1950, Serial No. 193,395
18 Claims. (Cl. 271—2.3)



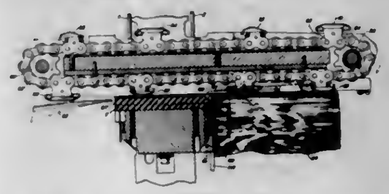
1. In a motion picture apparatus, the combination with a film feeding sprocket, a supporting shaft therefor, and a base plate through which said shaft projects, of a sprocket enclosing system comprising, in combination, an inner sprocket housing having a portion positioned on one side of said sprocket and between said sprocket and said plate, another portion of said housing being formed to provide an arcuate section which extends over at least a part of said sprocket, an outer sprocket housing having at least a portion thereof positioned on another side of said sprocket and cooperating with said first housing to provide an enclosed system for said sprocket, said system being formed to provide a film insertion slot and a film entrance opening and a film exit opening, and film guide means on said housings.

2,639,148
TICKET DISPENSING APPARATUS
Max E. Adams, Wilkes-Barre, Pa.; Francis Adamski Adams, administratrix of said Max E. Adams, deceased
Application May 1, 1948, Serial No. 24,502
3 Claims. (Cl. 271—2.5)



1. In ticket dispensing apparatus for tickets in a strip having equally spaced perforations, a base plate, guide members carried by said base plate for guiding the ticket strip, a carriage reciprocable on said base plate, resilient means for urging said carriage in one direction, a member carried by said carriage for driving engagement with a perforation in said ticket strip for advancing the same upon forward movement of the carriage and movable out of driving engagement upon return movement of said carriage, a locking lever having a pin engageable with the perforations in said ticket strip for preventing the advance thereof, a first solenoid for retracting said locking lever, a second solenoid for moving said carriage in the other direction, means including a switch for simultaneously energizing both of said solenoids, and means providing a lost motion connection between said second solenoid and said carriage whereby upon operating said switch means said first solenoid is energized to retract said lever prior to the time said second solenoid functions to move said carriage in the other direction.

2,639,149
FLEXIBLE CARD FEED
Leon N. Hampton, Pleasantville, and Martin Salser, Great Neck, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 4, 1949, Serial No. 125,622
16 Claims. (Cl. 271—34)

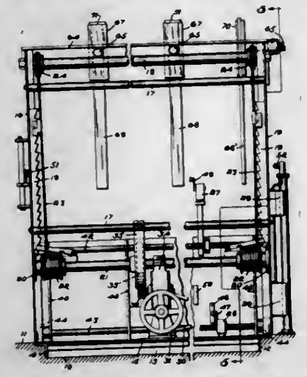


1. In a card perforator, a card receptacle, a stack of cards in said receptacle, each card having preformed configurations therein, adjacent configurations having parallelly disposed edges to form an engageable strap, and means for feeding cards one at a time from said stack regardless of possible warped conditions of said cards comprising floating throats and flexible card hooks, each of said throats having an opening greater than the thickness of one card and less than the thickness of two cards, means for determining the position of said throats by the position of the top card in said stack, a flexible drive medium comprising an endless chain for moving said card hooks only in one direction over said stack of cards, means for mounting said card hooks on predetermined links of said chain, prongs projecting from said card hooks a distance less than the thickness of one card and arranged to engage said strap, and spring means in said mounting for pressing said prongs against the top card in said stack until said prongs engage said strap.

2,639,150
SKID LIFT
Roy Aberle, Portland, Maine, assignor to Southworth Machine Company, Portland, Maine, a company of Maine
Application December 15, 1947, Serial No. 791,746
3 Claims. (Cl. 271—62)

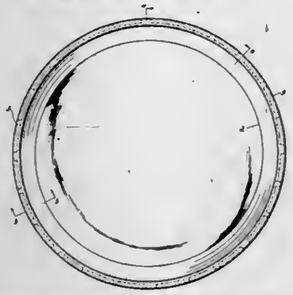
1. An improved automatic lifting machine for handling a stack of sheets, comprising an upright

framework, a stack supporting platform mounted for vertical movement on the framework, means including an electric motor for moving the platform vertically on the framework, means controlled by the height of the stack on the platform for automatically causing the motor to be energized and move the platform intermittently upwardly to thereby maintain the top level of the stack at a predetermined height as the height of the stack is diminished by the gradual removal



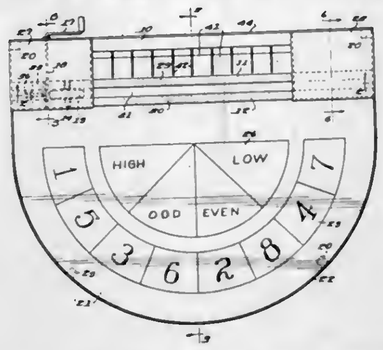
of the sheets from the top of the stack, safety latches carried by the platform for limiting downward movement of the platform following the intermittent upward movements thereof, means carried by and adjustable along the upright framework for automatically moving the latches out of operative position to thereby permit return of the platform to its lowermost position, and means for automatically restoring the latches to operative position when the platform reaches its lowermost position.

2,639,151
INDOOR MARBLE PLAYING RING
Woodrow A. Kennon, Birmingham, Ala.
Application February 8, 1951, Serial No. 209,964
1 Claim. (Cl. 273—118)



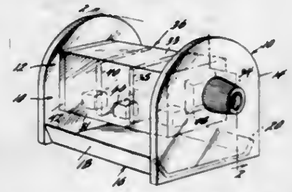
An indoor marble playing ring of the character described comprising, a ring structure consisting of a wall, a floor attached within the wall, the said floor being flat except for a narrow portion of its outer edge which is slightly slanting toward the wall, a plurality of slots spaced apart around the edge of the floor and adjacent the inner face of the wall, said wall extending upward from said floor for some distance and then extending inward to thus form a roof portion and then extending downward toward the floor with space between the said down turned edge and the floor of sufficient width to permit a game playing marble to pass between said edge and floor; a sub floor attached to the bottom edge of said surrounding wall, said sub floor being slanting toward one point in said wall, an opening and closing means therefor positioned at the point where the slant of said floor is the lowest.

2,639,152
SPRING ACTUATED WHEEL AND TRACK DEVICE
John O. Redlind, Napa County, Calif., assignor of one-fourth to Clayton E. Bargewell, Gustine, Calif.
Application November 10, 1950, Serial No. 195,025
3 Claims. (Cl. 273—138)



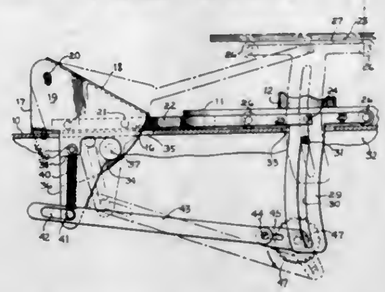
1. In a game, the combination which comprises a game board having a track thereon and with one end of said track extended upwardly, a wheel rotatably mounted on said track and having shafts extending from the opposite sides of the wheel and engaging the track a spring positioned to drive the said wheel on the track, and means actuating the spring for driving the wheel on the track whereby the wheel travels up the inclined section of the track and is returned by gravity to a position of rest upon the track.

2,639,153
DICE SHAKING DEVICE
Richard P. Murray, Joplin, Mo.
Application December 11, 1950, Serial No. 200,160
3 Claims. (Cl. 273—145)



1. A game device comprising spaced vertical end members, a substantially horizontal base member attached to said end members, a substantially horizontal casing formed as a hollow polyhedron, having end walls, transparent sides, and spaced parallel transparent partition members dividing said casing into a plurality of separate compartments, a freely movable die enclosed within each of said compartments, and aligned journals extending from said end walls and rotatably supported by said vertical end members, said journals being in eccentric relation to said end walls whereby when said casing is rotated, it will always come to rest with one of its sides substantially horizontal.

2,639,154
RECORD LIFTING MECHANISM FOR AUTOMATIC PHONOGRAPH RECORD PLAYERS
Edward J. Collins, Los Angeles, Calif., assignor to Williams Patent Corporation, Chicago, Ill., a corporation of Illinois
Application January 10, 1951, Serial No. 205,247
2 Claims. (Cl. 274—10)



1. A phonograph record lifting mechanism comprising a pair of plates adapted to engage the underside of a record adjacent the peripheral edge thereof, a yoke comprising parallelly extending arms, means pivotally connecting the plates intermediate their end portions to the end portion of said arms, a mounting plate, a pair of spaced brackets connected to said mounting plate, said yoke having an end portion positioned between said brackets, means pivotally connecting said end portion of the yoke to said brackets, means for pivotally moving said yoke relative to said brackets in a direction to bear said plates against the underside of said record, said last-named means including a depending link carried by said yoke, a connecting link, a slot and pin connection between the connecting link and said depending link, a driven shaft, a driving link, and a slot and pin connection between the driving link and the connecting link.

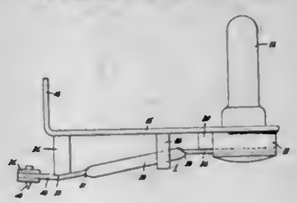
2,639,155
APPARATUS FOR SUPPORTING AND MANIPULATING PHONOGRAPH RECORDS
David M. Groves, Knoxville, Tenn.
Application March 27, 1947, Serial No. 737,586
9 Claims. (Cl. 274—10)

1. In a record player, a mounting board, a turntable mounted for rotation on said board, a plurality of shafts extending upwardly from said mounting board and circumferentially spaced around the turntable, a roller arranged laterally of each of the vertical shafts for supporting a plurality of records above the turntable, means for driving one of said rollers for rotating said records, a tone arm for operative association with an under face of a lowermost of said records, means for moving said tone arm outside the diameter of said records, means operable thereafter for rotating said vertical shafts in unison for releasing the lowermost of said records for downward movement onto the turntable, and a finger carried by each of said vertical shafts spaced above the associated roller a distance sub-



stantially equal to the thickness of a record for supporting the records above the lowermost during release of the lowermost record.

2,639,156
DOUBLE-TWIST PHONOGRAPH STYLUS ASSEMBLY
William W. Ward, Liverpool, N. Y., assignor to General Electric Company, a corporation of New York
Application October 29, 1949, Serial No. 124,266
12 Claims. (Cl. 274—38)

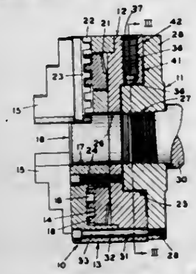


10. A stylus carrier assembly for a magnetic pickup head having a pair of magnetic pole pieces, comprising a magnetic ribbon-like member adapted to extend from a point between said pole pieces to a support in a direction generally parallel to the surface of a record to be reproduced, one end of said member being affixed to said support, a stylus affixed to said member near said point and adapted to engage said record, said member having end portions lying generally parallel to the plane of said record and an intermediate portion lying substantially normal to said plane, thereby to provide compliance for desired vibration of said intermediate portion in said plane while said pole pieces and support remain fixed, said support being adapted for attachment in fixed relation to said pickup head, and damping means in engagement with the end of said member to which said stylus is affixed for damping vibration of said member in the plane of said record.

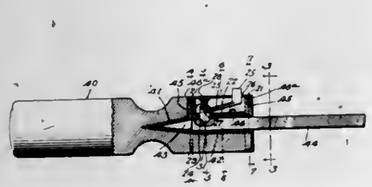
2,639,157
ADJUSTABLE CHUCK
Russell E. Buck, Kalamazoo, and James R. Buck, Scotts, Mich.
Application April 9, 1951, Serial No. 220,014
2 Claims. (Cl. 279—6)

2. In a mechanism for accurately centering the jaws of an universal chuck for a given jaw open-

ing, the combination comprising: means defining a plurality of circumferentially spaced bolt openings through said chuck, said openings being parallel with and substantially equi-distant from the axis of said chuck; means defining a co-axial cylindrical recess in the end of said chuck remote from said jaws; an annular surface on said last-named end of said chuck radially outwardly of said recess; a cylindrical adapter positioned loosely within said recess; said adapter having an annular, radially extending, flange engageable with said annular surface, and said flange having threaded bores alignable with said bolt openings; headed bolts of diameter substantially less than the diameter of said bolt openings positioned respectively in said bolt openings with the heads of said bolts each engaging a radially disposed surface adjacent the end of said chuck at which said jaws are located, and the threaded ends of said bolts engaged within said threaded bores for holding said adapter flange tightly against said annular surface; and screw means mounted upon said chuck and engageable with said adapter in a plane intermediate said annular surface and the heads of said bolts for radial adjustment of said adapter within said recess; the axial distance from the surfaces engaged by the heads of said bolts to said annular surface being materially greater than the axial distance from the axes of said screw means to said annular surface.

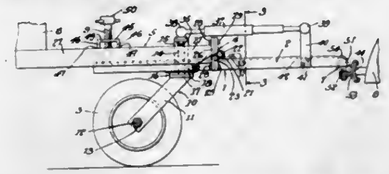


2,639,158
GRAPPLE HOLDER
Steve J. Procos, Chicago, Ill.
Application May 23, 1952, Serial No. 289,461
2 Claims. (Cl. 279—77)



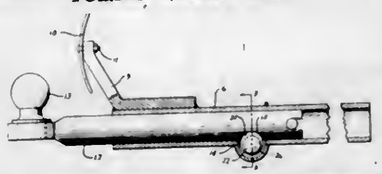
1. In a tool holder, the combination of a body having a tool shank socket-opening extending inwardly from one end thereof, said body also provided with a box recess between its ends, said box recess opening into said tool shank socket-opening, a box in said box recess and registering with said tool shank socket-opening, a lever pivotally mounted on said box, said lever provided with a plunger extending into said tool shank socket-opening, and said lever provided with a push button extending through the top of said box.

2,639,159
TRAILER SUPPORTING AND STEERING DOLLY AND WEIGHT EQUALIZER
Charles L. Milligan, San Fernando, Calif., and Clarence D. Swaim, Waterloo, Iowa
Application September 27, 1949, Serial No. 117,964
1 Claim. (Cl. 280—33.44)



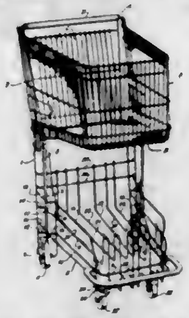
In combination, a dolly including a wheel and a beam mounted upon said wheel, a bearing secured to said beam, a pivot shaft turnably fitted in said bearing, connecting members on the ends, respectively, of said pivot shaft, to which connecting members the forward ends of the arms of a trailer tongue may be secured for pivotally connecting a trailer to said dolly to enable the trailer and said dolly to move up or down with relation to each other over an irregular road surface, means for operatively connecting the forward end of said dolly beam to a towing car, a jack mounted on said trailer tongue, rearwardly of the pivotal connection between the trailer and the dolly, for engaging the upper rear part of the dolly beam for swinging the forward end of said beam upwardly for disconnecting the connecting means between the forward end of said dolly beam and said towing car.

2,639,160
TRAILER HITCH
Robert H. Studebaker, Dayton, and David Emmert Studebaker, Tipp City, Ohio
Application January 23, 1950, Serial No. 140,012
4 Claims. (Cl. 280—33.44)



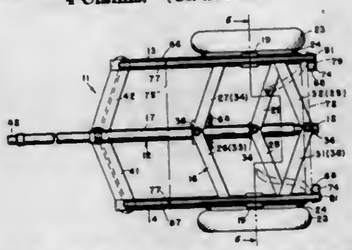
1. A trailer hitch comprising a tubular supporting member adapted to be mounted on an automobile beneath the body thereof, an elongate cylindrical member removably mounted in said tubular member, said tubular supporting member forming a housing enclosing most of said elongate cylindrical member, a substantially ball-shaped coupling element supported on one end of the elongate members, said elongate member also having in one side thereof a semi-cylindrical locking recess, said tubular member having a transversely disposed slot in one side thereof, a housing member having cylindrical end portions and a substantially semi-cylindrical center portion straddling said slot, said housing extending transversely to the tubular member and permanently secured thereto, and a locking device rotatably mounted in said housing and having an arcuate part movable into and out of said recess by the rotary movement of said device, said locking device including an eccentric cam-like portion seated in the recess when in locking position.

2,639,161
STORE SERVICE TRUCK
Sylvan N. Goldman, Oklahoma City, Okla.
Application November 21, 1949, Serial No. 128,582
6 Claims. (Cl. 280—33.99)



1. In a store service truck, a wheel supported frame structure including spaced uprights, a member connecting and retaining said uprights in spaced position, and a forwardly projecting lading carrying assembly formed of a plurality of U-shaped laterally spaced wickets, said wickets being connected at their rearward upper portions to said spacing member, and being held in rigid spaced relation at their forward ends, the spacing of the wickets at their rearward ends being greater than the spacing at their forward ends, whereby the forward end of the lading carrying structure may move into telescopic association between the more widely spaced rearward ends of wickets of an associated service truck of like construction.

2,639,162
COLLAPSIBLE CARRIAGE
Leo Schon, New York, N. Y.
Application May 17, 1949, Serial No. 93,687
4 Claims. (Cl. 280—42)



1. In a collapsible carriage, comprsing a frame structure, a pair of wheels connected with relation to said structure, and a propelling handle associated with said structure and shiftable relative thereto between two opposite stations for increasing and decreasing respectively the overall length, said structure including two telescoping parts reciprocable relative to each other between two extreme positions, and a linkage system including a plurality of links, some of said links being pivotally interconnected, and a pair of links thereof pivoted at one end of one of said telescoping parts and another pair of links thereof pivoted to said other telescoping part, wheel holding means connected to said link system near the points of interconnection of said links and movable laterally of said frame and adapted to be restrained from angular movement and arranged to hold said wheels freely rotatable, spring tensioned latching means intermediate said telescoping parts and operable automatically to lock the same when moved to one of said extreme positions, and latch releasing means associated with said handle and movable thereby in a path, said latching means including a projection protruding into said path in the locking position and being movable out of said path for latch release, said latch releasing means being operable to move said projection upon impact therewith to release the locking engagement between said parts when said handle is moved towards length decreasing position.

2,639,163
SHOPPER'S CART
Bernard M. Walker, Glendale, Calif.
Application August 3, 1948, Serial No. 42,200
9 Claims. (Cl. 280—47.26)



1. In a shopper's cart or the like, having a holder for articles purchased, the combination of a substantially upright spindle, an axle with wheels, extending transversely to said spindle, a bracket plate for supporting the holder, having a body with integral extensions at different levels, said extensions having sockets receiving said spindle, means for securing said bracket and said axle to said spindle, said bracket having an axle retainer struck from the material thereof forming a socket engaging said axle at a location disposed laterally with respect to said spindle, and means on the spindle at a higher level for engaging the holder to assist in securing the same.

2,639,164
ROLLER DEVICE FOR MOVING HEAVY OBJECTS
David F. Jorgensen, Altadena, Calif.
Application August 13, 1949, Serial No. 110,140
6 Claims. (Cl. 280—47.32)

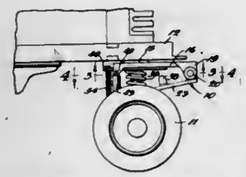
1. An apparatus for moving heavy objects comprising a roller, a pair of hangers, a separate

one of said hangers being mounted at each end of said roller, an elongated rod suspended between the hangers, a handle slidably mounted on said elongated rod, and a pair of sleeves having high coefficients of friction with the surface upon which said roller is operating and with said roller,



said pair of sleeves being mounted on said elongated rod and spaced on opposite sides of said handle, with the hangers being loosely journaled on the roller to provide a play which permits jamming of the roller against the sleeves upon counter-rotation of the roller.

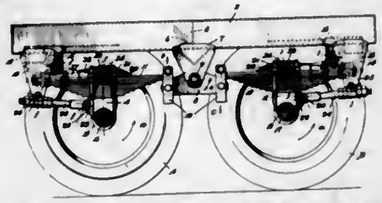
2,639,165
TRACTOR FRONT WHEEL SPRING SUSPENSION ASSEMBLY
Frederick W. Winters, Beaver, Wis.
Application May 17, 1950, Serial No. 162,409
3 Claims. (Cl. 280—87)



3. A front wheel spring suspension assembly for a farm tractor of the three wheel type having a vertically arranged steering post comprising, a supporting member adapted to be secured to the steering post underneath the tractor and turnable about a vertical axis coincident with the axis of the steering post, a carrier member underlying the supporting member and turnable therewith, horizontally arranged pivot means offset from the vertical turning axis for vertically pivoting the carrier member to the supporting member, wheel carrying means on the carrier member in alignment with the vertical turning axis for supporting a pair of front wheels for the tractor on opposite sides of the carrier member, a downwardly facing spring seat on the supporting member in alignment with the turning axis, an upwardly facing spring seat on the carrier member between the front wheels and in alignment with the turning axis, a helical spring interposed between the two spring seats in alignment with the turning axis, and resilient stop means offset from the turning axis and interconnecting the supporting member and the carrier member for limiting separation thereof.

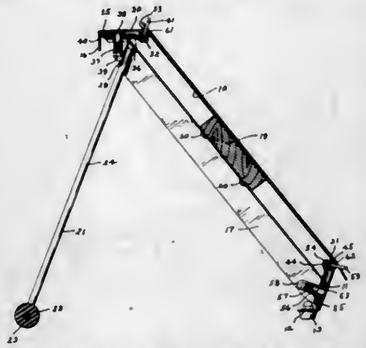
2,639,166
TRAILER TRUCK TANDEM AXLE SPRING SUSPENSION
Frank A. Jones, Bristol, Tenn., assignor, by mesne assignments, to Enterprise Wheel & Car Corporation, Bristol, Va.
Application January 30, 1950, Serial No. 141,185
5 Claims. (Cl. 280—104.5)

1. In a twin axle truck, a frame, a pair of wheel carrying axles spaced in parallelism across said frame, brakes for said wheels, leaf spring assemblies arranged in aligned pairs at each end of said axles, each pair of leaf springs having their adjacent ends pivotally connected to the end portions of a medially pivoted equalizing beam, and the outer end of said spring being free and operating against stool members located outward of the axles, said springs being supported medially of their length upon the tops of said axles, radius rods pivotally connected to the frame and to the axles adjacent and below the outward ends of said springs to maintain the axles in alignment, torque brackets mounted upon and



fixed to the medial portion of the axles and extending above said springs, and torque rods each pivotally suspended from the end portion of the frame outward of the axles and pivotally mounted at the upper end portion to a torque bracket, and lying in planes above the springs and radius rods, and being constructed and arranged to absorb the brake torque load by opposing rotational movement of the axle during brake loading.

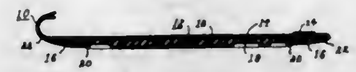
2,639,167
APPARATUS FOR AID IN GRADING EXAMINATIONS
Leroy W. Shrode, Vanderburg, Ind.
Application January 27, 1950, Serial No. 140,919
1 Claim. (Cl. 281—44)



A grade examination perforated end tape checking aid comprising a table; a flange extending backwardly through a bend from one end of the table; a second flange extending backwardly through a bend from the opposite end of the table; both of said flange bends having spaced apart slots therethrough, a slot in one bend longitudinally aligned with a slot in the second bend; a shaft revolubly mounted back of each of said bends; a plurality of tape receiving pins fixed to said shafts, one pin extending through each of said slots; said slots limiting by their ends the travel of said pins respectively toward said table to approximately upright positions in respect to the table top; and the transverse widths of said slots being less than the diameter of said tape perforations wherein said tapes while being stretched by

rocking of said pins through said slots away from said table are withheld from wrapping about said shafts.

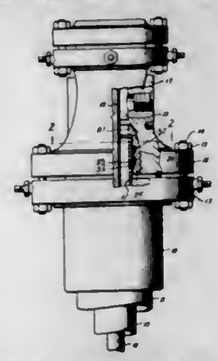
2,639,168
COVER CONSTRUCTION
Franklin E. Coppock, Dayton, Ohio, assignor to Dayton Embossed Products Corporation, Dayton, Ohio, a corporation of Ohio
Application September 19, 1950, Serial No. 185,568
2 Claims. (Cl. 283—64)



1. In a book cover adapted to be bound, the combination including a substantially rectangular backing member having dimensions substantially equal to the dimensions of the book cover, an embossed insert secured to the backing member, the width and length of the embossed insert being less than the width and length of the backing member, the embossed portion of the insert being bounded by an outwardly directed rib, the outer margin of the rib extending substantially perpendicular to the backing member, masking material surrounding the insert, the thickness of the masking material in the vicinity of the insert being substantially equal to the thickness of the margin of the insert, the outer margins of the masking material being substantially coextensive with the outer margins of the backing member, an embossed sheet overlying the embossed portion of the insert, the embossed sheet being slightly larger than the embossed portion so as to extend beyond the margins of the embossed portion, means for securing the insert to the backing member, a covering material having an opening therein equal in size to the embossed portion of the insert adhesively secured to the outer margin of the insert and the outer margin of the masking material, the edges of the opening of the covering material abutting the outer perpendicular margins of the rib surrounding the embossed portion so as to prevent scuffing, said covering being folded over three margins of the backing member, and a finish sheet secured to the inside of the cover and adhesively attached to the backing member and overlapping the margins of the covering material, one margin of the covering material and one margin of the finish sheet overlapping each other along the side of the book cover to be bound.

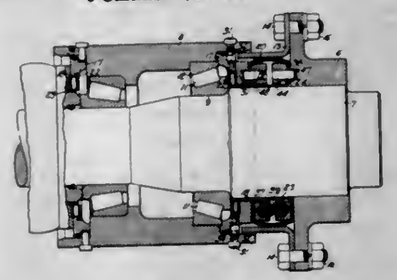
2,639,169
WELL HEAD
Marvin R. Jones, Houston, Tex., assignor to Oil Center Tool Company, Houston, Tex., a corporation of Texas
Application November 26, 1948, Serial No. 62,075
2 Claims. (Cl. 285—122)

1. A well head assembly including, a casing head, a tubing head having an axial bore mounted on said casing head, a well pipe supported by the casing head and having its upper portion extending upwardly into the lower portion of the bore of the tubing head, an adapter sleeve element mounted within the lower portion of the bore of the tubing head and surrounding the well pipe, the upper end of said element overhanging the upper end of said pipe to protect the same and form a tool guide, and a sealing means between said well pipe and the adapter element, wherein the adapter element is removably mounted within the bore of the tubing head by screw threads, and also wherein an additional



sealing means is provided between the adapter element and tubing head.

2,639,170
CARTRIDGE TYPE SEAL
Frederick A. Schick and Paul A. Knaust, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application March 11, 1952, Serial No. 276,902
6 Claims. (Cl. 286—11)

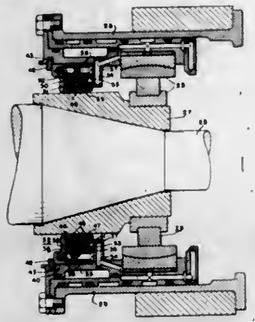


1. An axial contact type seal unit comprising, in combination, an axially shiftable sealing ring; an abutment ring at one side of said sealing ring; an annular, axially resilient backing unit at the other side of said sealing ring; a radially contractible and expansible tubular element in coaxial, radially confronting relation to said rings and backing unit; flange means formed on said tubular element at the axially outer side of and extending in radially overlapping relation to said abutment ring; and other flange means formed on said tubular element at the axially outer side of and extending in radially overlapping relation to said backing unit, one of said flange means being of a radial width enabling said one flange means to clear said rings and backing unit upon radial, elastic deformation of said tubular element.

2,639,171
SHAFT SEAL APPARATUS
Douglas Johnson, Ridley Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 7, 1950, Serial No. 166,723
2 Claims. (Cl. 286—11.15)

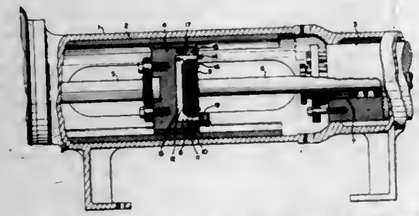
2. A fluid seal for a rotary shaft comprising a pair of split, lap-jointed metal rings friction-

ally engaging the shaft and rotatable therewith, said rings having flat sides extending radially of said shaft, an annular retainer member spaced outwardly of and encircling said split rings, spring means interposed between said retainer member and the peripheral portions of said split rings for resisting displacement thereof by centrifugal force, stationary annular channel structure encompassing the portion of said shaft carrying



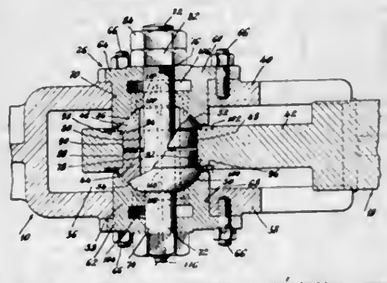
said rings and retainer member, said channel structure including end walls disposed parallel to said rings and an annular spacer element disposed between said walls, and a plurality of rings formed of carbonaceous material slidably interposed between said metal rings and said end walls of the channel structure, each of said carbonaceous rings having an inner diameter larger than that of said shaft and a peripheral surface spaced inwardly of said annular spacer element.

2,639,172
FLOATING CONNECTION
Byron H. Leonard, Jr., St. Louis, Mo., assignor to the United States of America as represented by the Secretary of the Interior
Application March 4, 1952, Serial No. 274,819
8 Claims. (Cl. 287—85)
(Granted under Title 35, U. S. Code (1952), sec. 268)



1. In a device comprising two connected members, one driven by the other, and each separately guided for rectilinear reciprocation along substantially the same axis, whereby slight angularity and offset is likely to occur between the axes of the separate guides, an improved floating connection between said members including a chamber having an open end carried by one of said members, a plug carried by the other of said members fitting into the open end of said chamber and occupying a portion of its volume, said plug being dimensioned so as to occupy the greater portion of the open end of said chamber, leaving a small clearance between its periphery and the adjacent walls of said chamber, said plug likewise being arranged so as to leave a clearance between its bottom side and the bottom of said chamber, flexible sealing means connected across the periphery of said plug and the adjacent walls of said chamber so as to close the gap therebetween, the remaining portion of said chamber unoccupied by said plug being filled with a fluid, whereby the force exerted by said driving member is transmitted to said driven member through said fluid, thereby permitting automatic compensation for both angularity and offset between the axes of said separate guides.

2,639,173
ARTICULATED TRUCK FOR RAILWAY CARS
Johan H. Olson, Larchmont, N. Y., assignor to M. H. Treadwell Company, Inc., New York, N. Y., a corporation of New York
Application May 29, 1951, Serial No. 228,887
4 Claims. (Cl. 287—89)

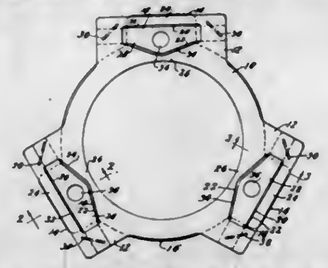


1. In an articulated truck, articulation means for pivotally interconnecting two side frames comprising a pair of spaced walls defining an open pocket in one of said frames and being formed with opposed side openings, a tongue portion of the other frame extending into said pocket and formed with a transverse bore substantially coaxial with said side openings, a pair of substantially similar ball members having inner cylindrical extensions disposed oppositely within said transverse bore and radially outwardly extending shoulders defining the outer ends of said extensions and coacting with the sides of the tongue to limit the extension of said extensions into said transverse bore and to prevent translatory movement of the tongue portion relatively to the pair of ball members, and a pair of socket members removably disposed fixedly within said openings and having inwardly facing concave spherical surfaces in engagement with convex spherical surfaces on said ball members; the said tongue portion being of less thickness than the space between the said two walls to permit pivotal movement of the two frames laterally in relation to each other, and the said side openings being larger than said ball members whereby to enable the latter to be passed separately through the opposite said side openings into their stated association with the tongue during assembly.

2,639,174
COMBINED SHIM AND GASKET
Franklin Woolley Farnam, Elmhurst, and Robert G. Farnam, Glen Ellyn, Ill., assignors to F. D. Farnam Co., Chicago, Ill., a corporation of Illinois
Application October 20, 1950, Serial No. 191,264
9 Claims. (Cl. 288—20)

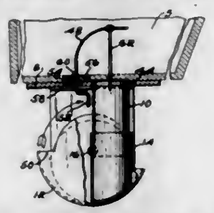
1. A combined shim and gasket adapted to be inserted between machine parts and comprising

a gasket for effecting a seal between opposed surfaces of such parts, said gasket having a cut-away segment adapted to be located between such surfaces, and a shim extending transversely of



said cut-away segment and adapted to space said surfaces, said shim and gasket having attached overlapping portions adapted to be located outside of said surfaces.

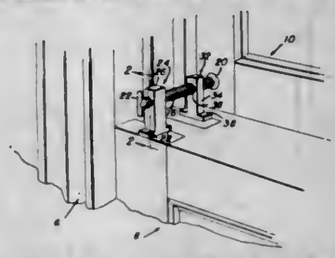
2,639,175
SANDER
James W. Coveney, Watertown, Mass., assignor to The Palmer Electric & Manufacturing Co., Wakefield, Mass., a corporation of Massachusetts
Application August 30, 1948, Serial No. 46,756
13 Claims. (Cl. 291—29)



1. In a road sander for vehicles of the type having a depending discharge conduit for the gravity discharge of sand, a cup mounted adjacent the outlet end of the conduit having a closed position beneath but spaced from said outlet end providing for the accumulation of sand therein to seal the outlet and an open position laterally removed from the conduit, means for moving the cup between open and closed positions, the combination therewith of a stirrer having a portion extending above the inlet end of the conduit and a portion extending into the path of movement of said cup, a support for said stirrer, means to effect a reciprocation of the stirrer with at least a substantial vertical component of movement of said portion toward and from the inlet of said conduit when the cup moves to open position and cooperating means effective while the cup is in open position to effect repeated like reciprocations.

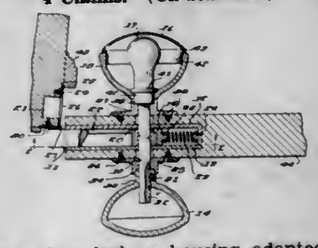
2,639,176
SASH FASTENING MEANS
Michael J. Montalbano, Jersey City, N. J.
Application April 25, 1951, Serial No. 222,815
4 Claims. (Cl. 292—58)

1. A sash fastener comprising a bracket having a base provided with a depending wood screw, an upright rising from said base, said upright being polygonal in cross-section and provided with a screw-threaded bolt hole, a bolt screwed through said hole and having a finger-grip to one end, having a smooth detent at the opposite end and a stop flange adjacent said detent, and a second relatively movable bracket having a base adapted to rest slidably on a portion of a cooperating sash frame member and also having an upright rising



from said base, said upright being of a height conformable with the height of the first named upright and having a smooth-walled bolt hole therein, that portion of the bolt between said stop flange and first named upright extending freely and slidably through said smooth-walled hole.

2,639,177
DOORKNOB ACTUATED LOCK
Oliver S. Smith, Edwardsville, Ill.
Application April 5, 1951, Serial No. 219,357
4 Claims. (Cl. 292—169)

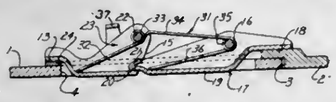


1. In a door lock, a housing adapted to be mounted in a door, a latch slidably mounted in said housing and provided with a slot, the outer end of said latch being square, a staff extending transversely through said latch and being square in cross section, a cover plate for said housing, a first knob rigidly mounted on one end of said staff, a second knob removably mounted on the other end of said staff, a cap removably mounted on said second knob, a handle arranged within said second knob, a rocker engageable by said staff and provided with a sleeve extending into the slot in said latch, and resilient means for normally urging said latch out of said housing.

2,639,178
FLUSH LATCH
John E. Hogan, Los Angeles, Calif., assignor to Clark Hartwell and Eleanor M. Hartwell, co-partners doing business as Hartwell Aviation Supply Company, Los Angeles, Calif.
Application July 2, 1949, Serial No. 102,893
3 Claims. (Cl. 292—229)

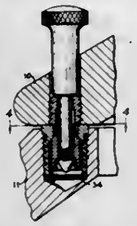
1. A flush latch structure, comprising: a mounting plate including coplanar side flanges, a longitudinal slot and pairs of journal lugs bordering said slot; journal pins connecting said pairs of journal lugs; tandem disposed levers each of channel cross section pivoted within said slot on said pins between said journal lugs and

adapted to occupy a coplanar closed position and an angular open position; and a wire spring unit including at least a pair of helical coils joined by a connecting link, and spring arms



extending beyond said coils, said coils adapted to fit said pins, one of said arms engaging one of said levers to urge it to its closed position, the other of said arms engaging the other of said levers to urge it to its angular position.

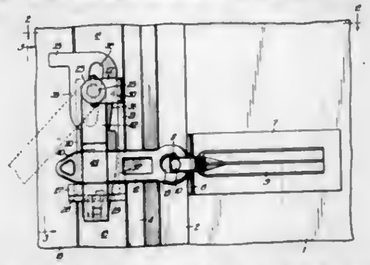
2,639,179
SELF-ALIGNING, SCREW-THREADED FASTENING DEVICE
Malcolm T. Phelps, Jamestown, N. Y., assignor to Weber-Knapp Company, Jamestown, N. Y., a corporation of New York
Application March 31, 1950, Serial No. 153,083
1 Claim. (Cl. 292—251)



A fastening device for securing two members together comprising a bolt, a retainer threaded into one of said members loosely mounting said bolt for free rotating movement and limited axial movement, threads adjacent one end only of said bolt, said end being beveled to form a pilot, a housing comprising an externally threaded annular sleeve threaded into the other of said members, a reduced diametered portion in the outer end of said housing forming a shoulder, an internally threaded keeper for receiving the pilot end of said bolt, said keeper being mounted in said housing and having substantial lateral movement with respect thereto, a shoulder on said keeper larger than the opening in the shoulder of said housing, the keeper shoulder being engageable with the housing shoulder to limit relative axial movement in one direction, and interengaging means on said keeper and said housing for preventing relative rotation.

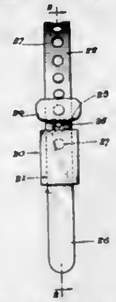
2,639,180
CAR DOOR LOCK
Karl T. Nystrom, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 30, 1949, Serial No. 113,044
8 Claims. (Cl. 292—283)

2. A lock for a sliding door comprising a bracket adapted to be secured to a stationary member associated with said door said bracket having spaced arms supporting a journal pin, a latch pivotally and slidably supported upon said pin, a hasp adapted to be swingably mounted upon said door and having a hook portion engageable with said latch, and a dog supported upon said journal pin so as to engage said hasp



when in hooked relation with said latch and hold said hasp in said hooked relation.

2,639,181
BAG SEAL
Sigurd Manfred Moberg, Pompton Plains, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application June 6, 1951, Serial No. 230,140
3 Claims. (Cl. 292—315)

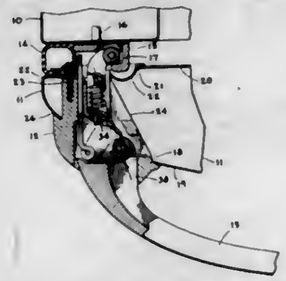


1. In a bag seal, a sealing-member of compressible material having an interior slot, open at both ends; a sheet-material member of nontearable material, to be formed into a bag-encircling loop, having one end anchored in the sealing-member, its other end to be passed through and out of the slot of said sealing-member; a guard member to be interposed between the bag and said sealing-member, said guard-member having an opening through which said sheet-material member passes; and means to prevent retraction of said sheet-material member out of the slot of said sealing-member, before the latter is deformed, including a detent-and-perforation connection between said guard-member and said sheet-material member.

2,639,182
LATCH MECHANISM
Edwin B. Jacobson, Grand Rapids, Mich., assignor to Crampton Manufacturing Company, a corporation of Michigan
Application February 26, 1949, Serial No. 78,576
9 Claims. (Cl. 292—332)

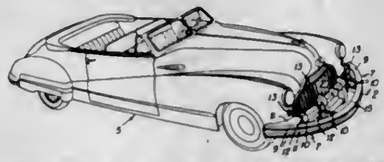
2. A latch mechanism for a container door, said mechanism comprising: housing means adapted for attachment to said door; an elongated bolt having a keeper-engaging portion at one end, said bolt being slideably and pivotally mounted at an intermediate point thereon in said housing means; crank means pivotally mounted

in said housing means on an axis parallel to the axis of the pivotal mounting of said bolt, said crank pivotally engaging said bolt at the opposite end thereof from said keeper-engaging portion; biasing means urging said bolt toward said crank; stop means limiting the movement of the point of pivotal engagement between said bolt and crank at points on opposite sides of the plane containing the axes of said pivotal mountings; handle means adapted to rotate said crank;



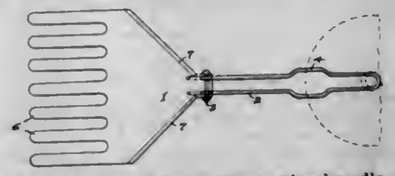
and trigger means slideably mounted in said housing for movement in a direction perpendicular to said door, said trigger means at one end engaging said crank at a point remote from the pivotal mounting thereof, and the opposite end of said trigger means being disposed to contact said container on the closing of said door, thereby urging said point of pivotal engagement of said bolt and crank across the plane containing the axes of said pivotal mountings.

2,639,183
AUTOMOBILE COLLISION GUARD
Moses M. Williams, Miami, Fla., assignor of one-third to Clyde Killens
Application August 2, 1948, Serial No. 41,942
1 Claim. (Cl. 293—75)



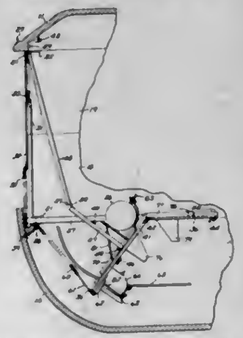
The combination of a vehicle bumper with a head-on collision guard for the bumper including a transverse bumper bar, said guard comprising an arcuate forwardly curved channel member, and attaching means on the back of said channel member to rigidly mount the same on an end portion of and in the same horizontal plane as the bumper bar, with the channel member diverging forwardly from said bumper bar in an inward direction and with the flanges of said channel member directed forwardly, the channel of said channel member being empty and of a size to freely receive the bumper bar of a colliding vehicle therein to deflect and guide the latter sidewise, said attaching means comprising a plurality of laterally spaced arms of different lengths rigid with and projecting rearwardly from the intermediate portion of the channel member and having vertical U-shaped brackets rigid with their rear ends, said brackets being disposed in the same transverse vertical plane and adapted to fit over the bumper bar, and means to bolt said brackets to said bumper bar.

2,639,184
LIFTER FOR COOKING UTENSILS
Vera M. Watts, Plainville, Kans.
Application October 13, 1948, Serial No. 54,259
1 Claim. (Cl. 294—92)



A kitchen utensil including a wire handle attached thereto, said handle being of substantial length and formed in a substantially flat elongated U-shape, the substantially straight parallel lengths of wire in said handle being formed intermediate their ends with a relatively short outward bulge to provide an enlarged opening between said lengths of wire through which the enlarged portion of a knob-like projection on another utensil may pass so that the more narrowly spaced straight parallel portions of the handle at opposite ends of said enlarged opening may be moved into engagement under the enlarged portion of the knob-like projection whereby said handle may be detachably secured to said projection.

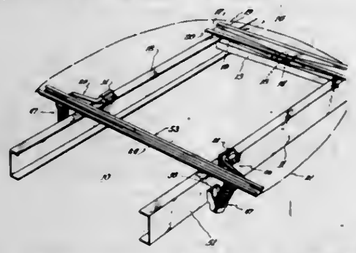
2,639,185
COLLAPSIBLE TRAILER
Harold C. Brumbaugh, Portland, Oreg., assignor of one-third to Max E. Krueger and one-third to Herbert Heltzel, both of Portland, Oreg.
Application January 12, 1951, Serial No. 205,708
13 Claims. (Cl. 296—23)



9. A collapsible trailer comprising a box-like base section, a roof section, inwardly foldable side walls hingedly connecting said base section to said roof section, an end wall, means hinging said end wall at its lower edge to said base section in such manner as to permit said end wall to swing inwardly to a horizontal position prior to collapsing movement of the roof section and side walls and to swing to an upright position after said side walls have been fully extended and said roof section elevated, said end wall having an opening in the lower portion thereof, a flap, horizontal hinge means connecting said flap at its upper edge to said end wall, said flap being movable from a depending position when said end wall is horizontally disposed to a position substantially closing said opening when said end wall is upright, a burner appliance on the inner

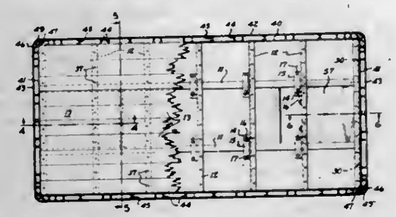
surface of said flap, a burner fuel supply tank mounted on the outer surface of said flap, a fuel tube extending from said supply tank through said flap to said burner appliance, and a valve controlling the flow through said fuel tube, said valve being mounted on top of said tank.

2,639,186
CAB MOUNTING
Ernest R. Sewelin, Waterloo, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application December 22, 1950, Serial No. 202,357
8 Claims. (Cl. 296—35)



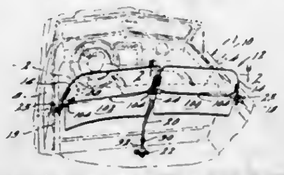
1. In a motor vehicle having a longitudinal frame and a body, the combination including said frame and body comprising means for connecting said body to said frame for controlled relative movement therebetween comprising pivot means securing one end of said body to said frame whereby said body is capable of rocking laterally with respect to said frame about a longitudinal axis vertically spaced above said frame; and means for yieldably resisting rocking of the body with respect to the frame including a pair of coil springs, said coil springs each having one end supported by said frame and having their opposite ends terminating adjacent the respective opposite sides of said body; and link means interconnecting the respective opposite sides of said body with said frame, the free end of each of said coil springs being connected to a portion of said link means.

2,639,187
TRUCK BODY PLATFORM
Edward S. Grumbache, Paris, Ill., assignor to Electrographic Corporation, New York, N. Y., a corporation of Delaware
Application June 19, 1947, Serial No. 755,593
2 Claims. (Cl. 296—37)



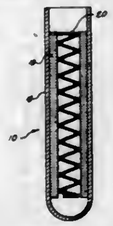
2. A truck body platform comprising, in combination, a pair of longitudinally extending sill members, a plurality of transversely extending bolster elements, means for adjustably connecting said elements and members comprising a transverse plate secured to each said member and a bracket secured to each said element seated on a said plate, said plate having elongated apertures and said bracket having apertures for receiving connecting bolts whereby said members and elements may be secured together with said members maximum and minimum distances apart, and a separately formed tool compartment extending to the rear end of said sill members having a width not greater than said minimum distance, positioned between said members but not connected thereto, secured to one or more of said elements, said compartment having a rear door at least as wide as said maximum distance.

2,639,188
AUXILIARY WIND DEFLECTOR
Curt Saurer, Detroit, Mich.
Application December 13, 1949, Serial No. 132,651
7 Claims. (Cl. 296—85)



1. An article for use with a motor vehicle having side walls and a floor, a supporting post adapted to be secured to such floor at the rear of such seat and extending upwardly of such floor to a point adjacent the top of such seat, a hinge block carried by said post at its upper end and having a pair of vertically extending upwardly opening holes, a pair of hinge brackets each having a vertically extending cylindrical pin, said pins being individually received within said holes, a frame carried by each of said brackets and extending outwardly therefrom toward respective adjacent ones of such walls, and having means to support a wind deflecting member in a plane extending at an angle relative to the vertical, a bracket carried by each such wall and releasable means for individually securing said frames to respective ones of said brackets.

2,639,189
VAPOR PRESSURE THERMOMETER
David K. Bragg, Foxboro, Willis F. Hickes, Sharon, and Herbert A. Nenman, Wrentham, Mass., assignors to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application March 14, 1951, Serial No. 215,428
2 Claims. (Cl. 297—5)



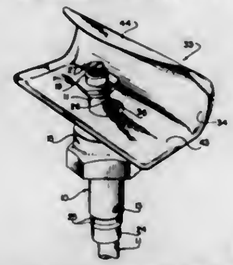
1. A vapor thermometer bulb in the form of a tube with one end closed, said tube containing a mixture of two liquids having different boiling points, vapors of said liquids, a wick in the form of a tubular sleeve engaging the walls of said bulb, and a coil spring within said wick as a means of holding said wick against the inner walls of said bulb, said wick being dimensioned so as to present a large, exposed, surface area in relation to its thickness whereby said mixture, when contained by said wick, presents a large, liquid, exposed surface area for rapid absorption and diffusion to homogeneity of the vapor condensates of said liquids under temperature dropping conditions.

2,639,190
MULTIPLE STRAND THERMAL PULL WIRE UNIT
Philip Sitzer, Irvington, N. J., assignor to Tung-Sol Electric Inc., Newark, N. J., a corporation of Delaware
Continuation of application Serial No. 573,736, January 20, 1945. This application September 19, 1949, Serial No. 116,597
1 Claim. (Cl. 297—12)



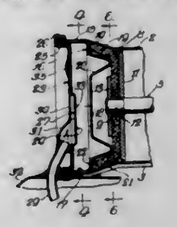
A multiple pull wire unit for mounting in a thermal switch comprising multiple turns of fine wire closely disposed to each other with the opposite ends of the multiple strand unit disposed in insulating cup-like shells having a hemispherical bottom part including a central opening therein, with the wires passing through said opening and a cement-like filler in the shell in which the ends of the wires are embedded.

2,639,191
SPRINKLER HEAD AND NOZZLE
John O. Hruby, Jr., Glendale, Calif.
Application April 10, 1950, Serial No. 154,983
9 Claims. (Cl. 299—18)



4. A sprinkler comprising a body having an internal wall defining a liquid-conducting bore which is open at its outer end for the discharge of liquid, a tubular stem of smaller external diameter than said bore arranged longitudinally in the bore to extend from the outer end thereof, bearing means spaced from said outer end of the bore positioning and restraining the stem for gyration while inclined with respect to the axis of said bore so as to lean against and roll along said wall of said bore adjacent said outer end thereof and carrying the stem for rotation about its own longitudinal axis, means for imparting angular motion to the liquid flowing through said bore to cause such gyration of the stem, the rolling engagement of the stem with said wall of the opening causing rotation of the stem, the interior of the tubular stem constituting a liquid passage which is open at its inner end for the reception of liquid, the gyration of the stem serving to break up the liquid stream discharging from the outer end of said bore, and there being at least one liquid discharge opening in the gyrating rotating tubular stem beyond the outer end of said body bore, and manually adjustable means for controlling the admission of liquid to the interior of the tubular stem.

2,639,192
SPRAYER
Lynn Fletcher, Lowell, Mich., and William Dickison, Des Plaines, Ill., assignors to Lowell Specialty Company, Lowell, Mich., a corporation of Michigan
Application April 15, 1950, Serial No. 156,134
9 Claims. (Cl. 299—88)

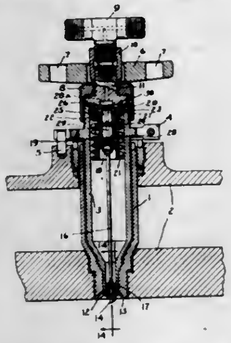


1. In an atomizing sprayer having a cylinder and a plunger operable therein, a cap assembly for the open end of the cylinder and comprising a transverse partition adjacent one end of the cylinder provided with an inclined expending surface against which the end of the plunger engages and is expanded, an air discharge port in the upper portion of the partition, and an end cap assembly comprising an outer and an inner transverse member providing a closure for the end of the cylinder, said outer member being nested within the inner member and each provided with a flange anchored to the cylinder and said members each having a plurality of spaced apertures arranged in horizontal alignment and a liquid chamber therebetween aligned with and into which said apertures open, and a liquid supply tube discharging into the chamber whereby liquid entering the chamber is discharged through the apertures in the outer member in the form of a plurality of intersecting jets.

2,639,193
FUEL INJECTION DEVICE
George B. Wood, Jr., Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application February 5, 1947, Serial No. 726,489
5 Claims. (Cl. 299—107.6)

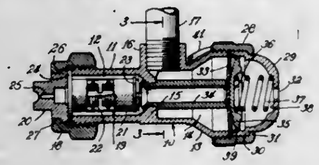
1. In a device of the character described, a nozzle body having a fuel inlet and fuel outlet adjacent its opposite ends, a longitudinally movable needle valve for controlling the delivery of fuel through said fuel outlet, a check valve arrangement for controlling the admission of fuel through said fuel inlet into said nozzle body, said check valve arrangement comprising a cylinder and a pair of longitudinally relatively movable piston members in said cylinder, a check valve carried by one of said piston members, said check valve being adapted to be opened by fuel inlet pressure and to be closed by fuel pressure in said nozzle body, one

of said piston members having an end engaging the adjacent end of said needle valve and a



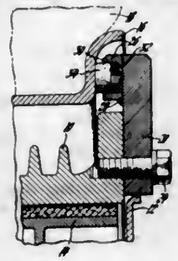
spring normally urging said needle valve into position to close said outlet.

2,639,194
ANTIDRIP VALVE FOR SPRAY NOZZLES
Fred W. Wahlin, Oak Park, Ill., assignor to Spraying Systems Co., Chicago, Ill., a corporation of Illinois
Application December 21, 1950, Serial No. 201,939
3 Claims. (Cl. 299—150)



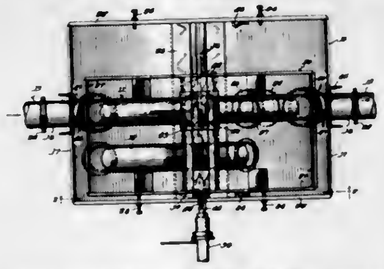
2. A diaphragm valve device of the class described comprising an elongated hollow one piece body which has an opening extending therethrough from end to end, said body being formed between the ends thereof with an internal annular partition which is between the opposite end portions of said opening and divides the latter into two adjoining chambers, one of which is flared to increased size at the outer end thereof remote from said partition, and the other of which has a cylindrical strainer therein and is closed at the outer end by a removable spray tip, said partition having a central opening extending therethrough between said chambers at the inner ends thereof, a tube which is open at both ends and secured at its inner open end in said central opening of the partition and projects therefrom centrally through the said flared chamber and has its outer open end thereof at the flared end of said flared chamber, a cap member which is detachably secured to the body at the flared end of the flared chamber and contains a spring and a plate which is pressed by the spring toward the said outer open end of the tube, and a flexible diaphragm of elastic material which is interposed between said outer end of the tube and the spring pressed plate and centrally engaged by the latter, said diaphragm being peripherally clamped by said cap member against said body around the flared end of the flared chamber, and said body having an opening through the side thereof and leading directly into the side of the flared chamber at the partition end thereof.

2,639,195
BRAKE DRUM VIBRATION DAMPER
Carl J. Bock, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 18, 1949, Serial No. 82,247
9 Claims. (Cl. 301—6)



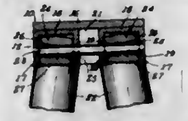
3. In a wheel having a brake drum and a rim, a vibration damper consisting of a block firmly secured to said drum at a point adjacent the perimeter of said drum, said block extending radially to a point adjacent said rim, the width of said block extending over a very minor portion of the perimeter of said drum, the major portion of the perimeter of said drum being free, a friction material stud positioned on said block adjacent said rim and resiliently pressing against said rim to damp the vibrations of said drum.

2,639,196
COMBINED PIPE-LINE SWITCH AND DIVERTER
Thaddeus J. Glaza, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 21, 1950, Serial No. 157,248
5 Claims. (Cl. 302—28)



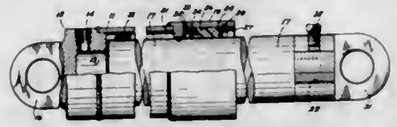
1. A pipeline switch for use in a selectively discontinuous pipe system having a main line and a branch line, the switch comprising two sections of movable pipe suitable for predetermined alternate movement to be separately interposed into the said pipe system thereby to complete either the said main line or the branch line, a stationary base frame having conduit means for predetermined registry with said movable pipe sections, carriage means operable on the said base frame for mounting the said movable pipe sections, and means for reciprocally moving the said carriage means on said base frame for selectively positioning one of the said movable pipe sections to communicate with either the said corresponding main line or branch line thereby to effect a continuous pipeline along the said selected line.

2,639,197
PORTABLE SAWHORSE
James L. Chelsea, Los Angeles, Calif.
Application March 11, 1950, Serial No. 149,131
3 Claims. (Cl. 304—6)



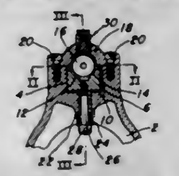
1. A portable sawhorse comprising a table beam, a pair of transversely spaced channels arranged longitudinally along the bottom of said table beam, the flanges of said channels all being parallel both longitudinally and vertically, a transverse hinge pin adjacent each end of the sawhorse and extending in parallelism with the table beam through the four flanges of the pair of channels, an ear in each end of each channel and each having a bore formed to have a double conical flare from its middle part outward, the mentioned hinge pins extending through said bores, each ear having opposite faces directed toward the flanges of the channel in which it resides, said opposite faces having oppositely angled chamfer portions that provide each said ear with a thicker part across the bore and thinner parts thereabove and therebelow, said ears being swingable around the axes of said hinge pins and also transversely tiltable on said pins on the fulcrums provided by said middle parts of the conically flared bores, a rigid support leg extending from each said ear, said legs being arranged in pairs at the opposite ends of the sawhorse, a foldable brace connecting each pair of legs and said braces being longer than the space between the ears of each pair of support legs, said legs, thereby, being divergent and at an angle to the flanges of the mentioned channels, and the upper chamfer of one side of each ear and the lower chamfer of the opposite side having bearing engagement with the inner faces of the flanges of said channels during said divergent position of the legs.

2,639,198
CYLINDER BEARING AND PACKING
Hall Kirkham, Cleveland, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey
Application August 31, 1949, Serial No. 113,285
7 Claims. (Cl. 308—3.5)



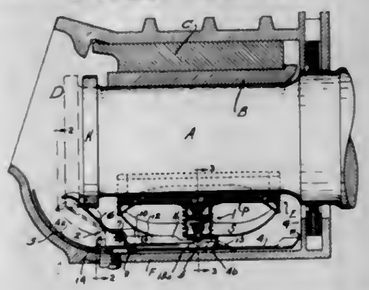
1. In combination, a cylinder, a rod reciprocable into and out of the cylinder and out of contact therewith, and an integral annular member mounted in the cylinder between fixed abutments and ringing the rod, the said member comprising a slightly yielding central portion supported by the cylinder and serving to support the rod and maintain it out of contact with the cylinder during the normal intended reciprocating movements of the rod; an inner portion on the end of the central portion exposed to pressure within the cylinder, the inner portion comprising a flexible U-packing urged against the rod and the cylinder by fluid pressure within the cylinder; and an outer resilient portion constituting a wiper for the rod when the same is retracted.

2,639,199
ADJUSTABLE BEARING FOR SURVEYING INSTRUMENTS
William Patrosio, Jersey City, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application December 1, 1948, Serial No. 62,867
6 Claims. (Cl. 308—59)



1. In an instrument having a horizontal axle resting on a lower bearing, an enclosing member mounted over the axle, a sleeve member having a concentric hole mounted in said enclosing member and a bearing block slidably supported in said concentric hole and making contact with the axle to brake its rotation under the action of small forces, said combination of said sleeve and said bearing block preventing excessive movement between the axle and the lower bearing.

2,639,200
RAILWAY AXLE BOX LUBRICATOR
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application December 7, 1949, Serial No. 131,579
18 Claims. (Cl. 308—84)



1. In a railway axle journal lubricator, a lubricant distributor with an upper surface concaved about a longitudinal axis above the distributor to adapt the distributor for application to a railway axle journal, a support member below said distributor, a lever fulcrumed on said support member and having an arm extending longitudinally of the distributor in the general direction of said axis and spaced below the distributor, a pumping device mounted on said arm and comprising a body with flexible walls, there being a connection between the upper portion of said body and said distributor for the passage of lubricant between them, said lever having another arm extending from its fulcrum in the direction opposite to that of said first-mentioned arm and upwardly to

the level of the lower portion of the distributor and having a terminal facing towards and spaced from the end of the latter and in a position where it could be operatively engaged by an end portion of a journal to which the distributor is applied.

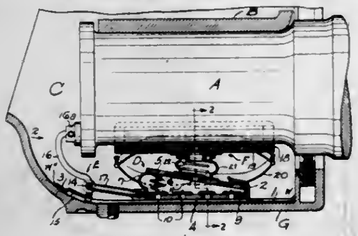
2,639,201

RAILWAY JOURNAL LUBRICATOR PUMP

James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware

Application December 9, 1949, Serial No. 131,975

9 Claims. (Cl. 308—84)



1. In a railway axle journal lubricator, a pump body, comprising a bellows-like structure, there being a support element in fixed relation to one part of said bellows-like structure, an elongated distributor pad above said structure shaped for application to a journal to be lubricated, a lever fulcrumed upon said support element with one arm connected to one side of the bellows-like structure and with its other arm disposed beyond an end of said pad to be engaged by a portion of the journal above the level of the pump body.

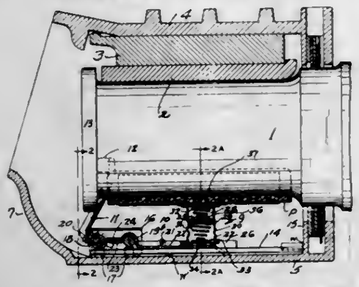
2,639,202

RAILWAY AXLE JOURNAL LUBRICATOR

James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware

Application March 13, 1950, Serial No. 149,415

17 Claims. (Cl. 308—84)



1. In combination with a railway axle journal having a radial collar at its outer end and a box carried by the journal and including a bottom wall and an upright rear end wall, a journal lubricator comprising a support member mounted on the bottom of the box near the rear end wall thereof, a lever pivoted on said support member with an arm extending forwardly beneath the journal, a lubricant pump carried by said lever arm, means associated with said lever for distributing lubricant from said pump to the journal, and lever actuating means positioned to be engaged by the inner face of the journal collar.

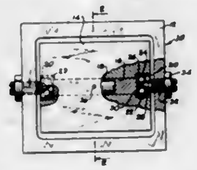
2,639,203

PRELOADED BEARING WITH TEMPERATURE COMPENSATION

Richard C. Sasse, Packanack Lake, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application December 30, 1950, Serial No. 203,685

1 Claim. (Cl. 308—159)



A pivot bearing construction comprising a support structure; a first member; rod-like second member having a different temperature coefficient of expansion from that of said first member and having substantially the same temperature coefficient of expansion as that of said support structure, said rod-like second member extending through and being supported by said first member so that said first member can expand and contract relative to said rod-like second member; and a pair of ball-type bearings disposed adjacent to the opposite ends of said rod-like second member and each comprising a conical inner ball race carried by the support structure and an outer ball race carried by said first member for pivotally supporting said first and second members from said support structure, each said outer ball race axially abutting the adjacent end of said rod-like second member and being fitted within said first member for axially sliding movement relative thereto.

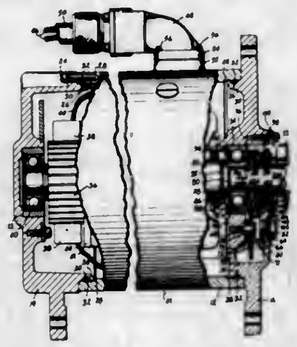
2,639,204

SEALED BEARING FOR ROTATABLE SHAFTS WITH LUBRICATORS

Stanley M. Terry, Toledo, Ohio

Application February 4, 1950, Serial No. 142,367

4 Claims. (Cl. 308—187.1)



1. In a lubricating device, a rotatable shaft journaled in a relatively fixed member, a gear element rotatable with the shaft, an idler gear adapted to mesh with the first gear element and

to be rotated therewith, said idler gear being journaled on the relatively fixed member adjacent the lower side of the shaft, an oil reservoir in the relatively fixed member, a sealing element for the shaft cooperating with the first gear element including a pair of lapped mating surfaces, and filling means for the oil reservoir adapted to maintain the oil level at a point where the idler gear is partly submerged in the oil whereby upon rotation of the elements the oil is carried upwardly to the shaft.

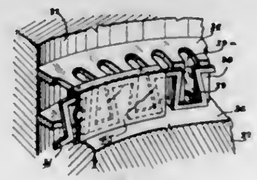
2,639,205

EXPANDER FOR PISTON RINGS OR THE LIKE

Frederick W. Wilkening, Penn Valley, Helmuth G. Braendel, Paoli, and Carl F. Engelhardt, Yeadon, Pa., assignors to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware

Application June 3, 1948, Serial No. 30,937

18 Claims. (Cl. 309—45)



3. In a composite oil-control piston-ring including an outer integral trans-split ring of flexible but relatively non-resilient sheet-metal generally U-shaped in cross-section with upper and lower radially-extending walls providing annular axially-spaced cylinder-contacting lands and an intermediate axially-extending wall spaced inwardly from the land edges and having a plurality of circumferentially-spaced oil-drain openings formed therein; and including an inner non-bottoming expander comprising a strip of resilient sheet-metal or the like which is generally axially-corrugated and which has legs extending alternately generally axially and circumferentially; a fastening clip of metal or the like constructed and arranged to hold the free ends of the expander strip in generally abutting relationship thereby to maintain the expander in the form of a closed annulus constructed and arranged to bear against the inner wall of the outer ring and to exert generally uniform circumferentially-distributed outward tension thereon, said clip having a generally C-shaped axial cross-section providing a channel having an axial dimension generally the same as that of the expander into which the ends of the expander can be fitted circumferentially.

2,639,206

APPARATUS FOR INVERTING PATIENTS DURING X-RAY EXAMINATIONS

George V. Butler, Rochester, N. Y.

Application November 14, 1950, Serial No. 195,657

2 Claims. (Cl. 311—10)

1. Apparatus for use in connection with an examination table of the tip type having a table surface for the reception of the patient comprising, in combination, a support secured to the table adjacent one end thereof, an element carried by said support and rotatable in a plane substantially normal to said table surface, fastening members carried by and movable approximately radially of the axis of rotation of said element, said element forming a surface against which the feet of the patient may rest, a garment which includes shoulder portions and side portions having ends extending along the sides of the patient, means for detachably securing the ends of said side portions to said fastening members, and



means for varying the length of said side portions to the end that the side portions may be drawn taut and when the table is tipped so that the feet of the patient are uppermost the feet of the patient still lie at least adjacent said element and the side portions are in tension and exerting a straight pull on the shoulders along the sides of the patient to support a major portion of the weight thereof.

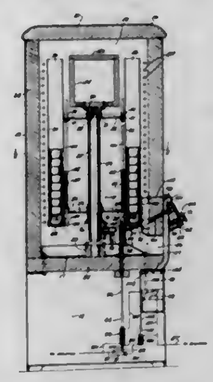
2,639,207

VENDING MACHINE

Adam Ziska, Wauwatosa, Wis., assignor to Samuel M. Kaufman, Milwaukee, Wis.

Application June 4, 1947, Serial No. 752,382

3 Claims. (Cl. 312—44)



1. In a vending machine having a cabinet, a vertically disposed cup holding hopper in said cabinet having side openings, hinge pins supported for rocking movement on opposite sides of said hopper at the lower end thereof, complementary door sections rigidly connected to said hinge pins and projecting inwardly therefrom, lugs connected to said door sections and projecting outwardly from said hinge pins, cup holding arms pivotally mounted on said hinge pins adjacent the side openings of the hopper, yielding means normally urging said arms inwardly into said openings to prevent downward movement by gravity of cups thereabove in the hopper, means on said arms engaged by said door section lugs when the door sections are closed for preventing said in-

the level of the lower portion of the distributor and having a terminal facing towards and spaced from the end of the latter and in a position where it could be operatively engaged by an end portion of a journal to which the distributor is applied.

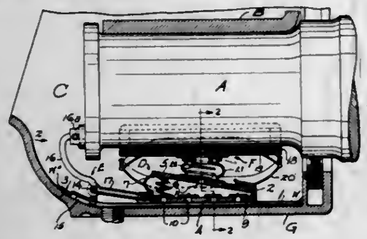
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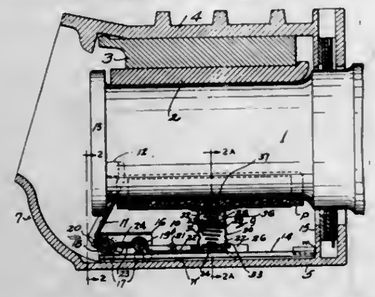
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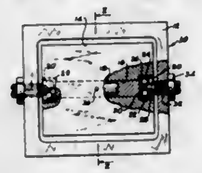
2,639,203

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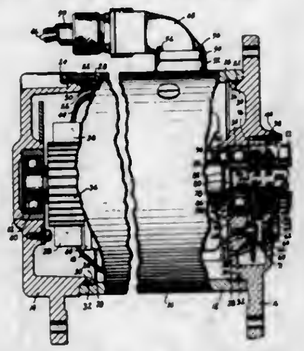
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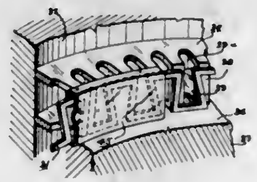
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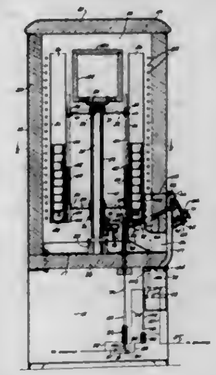
2,639,207

VENDING MACHINE

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Application June 4, 1947, Serial No. 752,382

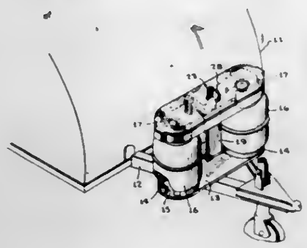
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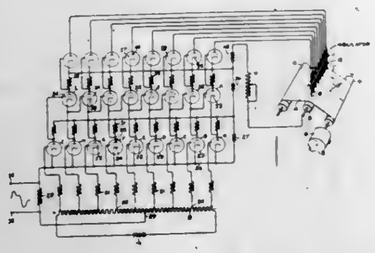
ward movement of the cup holding arms, and means for controlling opening and closing movement of said door sections.

2,639,208
GAS BOTTLE RACK FOR TRAILERS
Leo B. Obenchain, Branford, Conn.
Original application May 14, 1948, Serial No. 27,010. Divided and this application June 15, 1951, Serial No. 231,883
3 Claims. (Cl. 312—100)



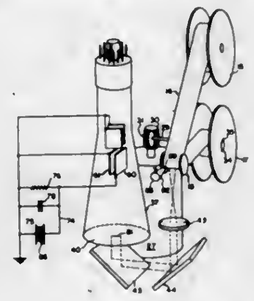
1. A support for gas bottles comprising a base plate, a plurality of ring members secured to said base plate and each adapted to receive the base flange of a gas bottle, an upstanding bar member secured to said base plate, a horizontal arm positioned adjacent the upper end of said bar member and having one end secured to said bar member, a cover member provided with a depending peripheral flange positioned above said horizontal arm, there being an opening in said cover member slidably receiving the upper end of said bar member, said cover member being adapted to be placed over the top ends of the neck portions of gas bottles when positioned in said ring members, and a connecting means dependingly carried by said cover member and slidably receiving the other end of said arm.

2,639,209
RECORDING APPARATUS
Sooren E. Gamarekian, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 29, 1949, Serial No. 118,532
3 Claims. (Cl. 346—33)



1. Apparatus for recording high frequency voltage variations comprising an electrically conductive printing member, an array of electrodes having tips in close proximity with linearly spaced points on said member, means for feeding a sheet of electrosensitive recording material between said member and said electrode tips, an array of voltage amplifier stages each constructed to provide an output voltage of a first similar magnitude when operative and of a second similar magnitude when inoperative, means for varying the ratio of an adjacent series of operative stages to an adjacent series of inoperative stages in accord with instantaneous amplitude level variations of an input voltage, and separate control means connected in circuit with said printing member and each electrode, each control means being connected to be energized by a difference in voltage between the output voltages of a respective adjacent pair of amplifier stages.

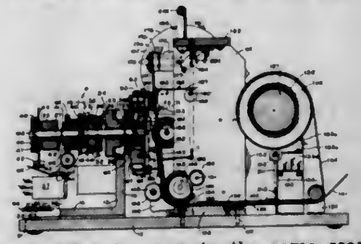
2,639,210
RECORDING DECELEROMETER
Alexander F. Robertson, Charlottesville, Va., and John R. Tallackson, Oak Ridge, Tenn.
Application August 24, 1948, Serial No. 45,962
11 Claims. (Cl. 346—38)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A recording accelerator of the character disclosed secured within an aircraft planted mine, the deceleration of which is to be recorded, comprising in combination, a housing having a cylindrical bore therein, a piezoelectric element disposed in said bore and adapted to generate voltages selectively in accordance with the rate of contraction and expansion thereof, means for initially loading said element yieldably, means including an inertia responsive piston slideably and guidably disposed within said bore and arranged slideably between said element and loading means in coacting relation with respect to said element for causing said expansion and contraction of the element from the initially loaded condition thereof selectively in accordance with the direction of movement of said mass with respect to the element as the mine is momentarily decelerated in response to the shock of impact of the mine with the water and the bed of the body of water respectively, means including a cathode-ray tube having a pair of electrodes electrically connected to the piezoelectric element for producing deflections of the electron beam of the tube proportional to said voltages to produce an image on the screen of the tube as a visual measure of the sudden deceleration of the mine, and means including a moving film for producing a photographic record of said image indicative of the acceleration-time characteristics of the mine during the planting operation thereof.

2,639,211
MULTISTYLUS FACSIMILE MACHINE
Frederick G. Halliden, Bellerose, N. Y., and Douglas M. Zabriskie, Northvale, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application March 25, 1949, Serial No. 83,333
26 Claims. (Cl. 346—139)

1. A facsimile scanning mechanism comprising an endless belt, driving means operatively supporting said belt, a plurality of stylus holders rigidly mounted on said belt in uniform spaced relation, a stylus rigidly carried by each of said holders, a fixed rail for guiding said belt through a scanning path, said rail having a straight rigid edge and means for retaining each of said stylus in steady pressure contact with said edge throughout its travel through the scanning path, whereby each stylus is held in strict alignment



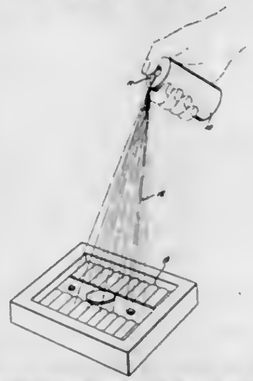
and compelled to move in the same scanning path.

CHEMICAL

2,639,212
PAN LINER
Paul Thompson, Wellesley Hills, Mass., assignor to Bestpak Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application June 7, 1950, Serial No. 166,770
1 Claim. (Cl. 8—120)

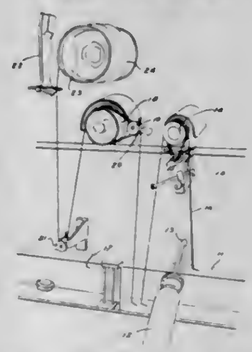
A new and improved pan liner comprising a body of paper having a smooth, undisturbed and integral surface portion thereof which has been converted in situ into an esterified cellulose composition selected from the group consisting of cellulose acetate, cellulose benzoate and cellulose stearate, the said surface portion being capable of withstanding elevated baking temperatures without impairing its characteristic of freely parting from the baked product.

2,639,213
MOLD PARTING SURFACE AND METHOD OF APPLICATION
Robert Menning Barth, Pelham Manor, N. Y., assignor to Price-Driscoll Corporation, New York, N. Y., a corporation of New York
Application March 21, 1950, Serial No. 151,041
6 Claims. (Cl. 18—47)



1. A composition for the application of a parting surface to the face of a mold comprising a liquified gas selected from the group consisting of dichlorodifluoroethane, chlorodifluoromethane and fluoroethane and a silicone base oil dissolved therein, said silicone base oil having a viscosity in excess of 5000 S. S. U.

2,639,214
PROCESS OF FORMING THREAD
Carl F. Gram, Rowayton, Conn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
Application August 3, 1945, Serial No. 608,655
1 Claim. (Cl. 18—54)



In the method of producing high tenacity rayon yarn wherein a spinning solution is extruded into a spin bath under conditions to form a multifilament yarn strand, the resultant strand being then directed through a hot aqueous liquid, subjected to stretch, and finally collected on a perforated bobbin in the form of a cross-wound take-up package ready for after-treatment, the improvement comprising the steps of forming said multifilament strand in a spin bath of relatively low temperature, withdrawing the strand as fast as formed from the bath by means of a first godet and roller unit before complete regeneration has set in, then passing said strand through an aqueous bath of substantially higher temperature to accelerate regeneration thereof, withdrawing it therefrom by means of a second godet and roller unit driven at a slightly higher peripheral speed than said first unit to impart stretch to said strand, and, while stretching said strand and while the regeneration thereof is continuing in ac-

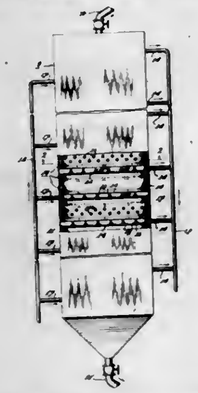
celerated fashion, abruptly changing the path of said strand a plurality of times for a short distance of travel and in such angular directions during its passage over said second godet as to impart a rolling motion thereto and cause it to acquire a lasting, substantially circular cylindrical shape and collecting said circular strand into a cross-wound package having a multitude of interstices.

2,639,215

ART OF PROTECTING THE WALLS OF VESSELS CONTAINING FLUENT GRANULAR SOLIDS

Rophie E. Bland, New York, N. Y., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application October 11, 1947, Serial No. 779,240
6 Claims. (Cl. 23—1)



1. In a vessel wherein a downwardly moving nonturbulent bed of fluent granular solid contacts gases, which vessel comprises inlet and outlet means for continuously introducing and removing said solid, inlet and outlet means for said gases and a vertically elongated chamber for the contact of said solids and gases, the perimeter of said chamber confining said downwardly moving bed, the combination thereof with means for producing vertically elongated substantially static masses of said solid between the walls of said chamber and said bed, said means comprising a plurality of narrow horizontal shelves substantially contiguous to said wall at vertically spaced intervals equal to less than five times the width of said shelves within said chamber.

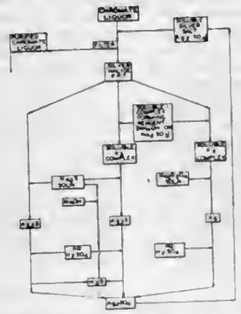
2,639,216

REMOVAL OF HALIDE IONS FROM CHROMATE LIQUORS

Robert G. Banner, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

Application February 11, 1949, Serial No. 75,796
5 Claims. (Cl. 23—56)

1. The method of obtaining halide-free bichromate liquors, which includes roasting chrome ore containing halide compounds under alkaline conditions, leaching said roast to obtain a halide-containing liquor having a pH below 9, adding a source of silver ions thereto in an amount slightly less than the stoichiometric equivalent of halide ion present in said liquor to precipitate silver halide, separating said silver halide, recovering said halide-freed bichromate liquor, converting the silver of said silver halide precipitate to a



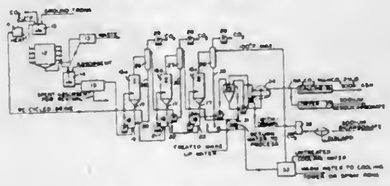
water-soluble source of silver ions, and recycling said soluble source of silver ions to further amounts of said halide-containing aqueous liquor.

2,639,217

PRODUCTION OF SODIUM SESQUICARBONATE FROM CRUDE TRONA

Robert D. Pike, Greenwich, Conn.

Application July 29, 1949, Serial No. 107,529
4 Claims. (Cl. 23—63)



1. A process for the production of sodium sesquicarbonate from crude trona which comprises dissolving the trona in a circulating system open to the atmosphere in a recirculating solution of sodium carbonate and sodium bicarbonate containing a greater concentration of the normal carbonate than of the bicarbonate at a temperature not substantially less than the boiling point of the recirculating solution with consequent substantial loss of CO_2 from the circulating system, crystallizing and separating sodium sesquicarbonate by cooling, and maintaining the ratio of concentrations of sodium carbonate and sodium bicarbonate in the recirculating solution substantially constant by withdrawing from the circulation the stoichiometric amount of solution corresponding to the amount of CO_2 lost to restore the desired sodium carbonate to sodium bicarbonate concentration, and recirculating the remainder of said solution of sodium carbonate and sodium bicarbonate and dissolving more trona therein.

2,639,218

PRODUCTION OF ANHYDROUS ZIRCONIUM FLUORIDE

Raymond J. Anderson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 13, 1950, Serial No. 184,717
4 Claims. (Cl. 23—88)

1. A method of producing anhydrous zirconium fluoride that comprises (1) subjecting a reactive zirconium oxide to the action of from 30 to 70 per cent aqueous hydrofluoric acid containing from 4.2 to 4.4 mols of HF per mol of zirconium oxide at 60 to 80° C. for from four to six hours; (2) heating the resulting products to dryness at from 140 to 160° C.; and (3) calcining the dried products at 300 to 350° C. for from four to five hours to produce anhydrous zirconium fluoride.

2,639,219

NONCAKING POTASSIUM BROMIDE FOR PHOTOGRAPHIC DEVELOPERS

Edwin S. Wiitala and William J. Rogers, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 28, 1952, Serial No. 279,208
6 Claims. (Cl. 23—89)

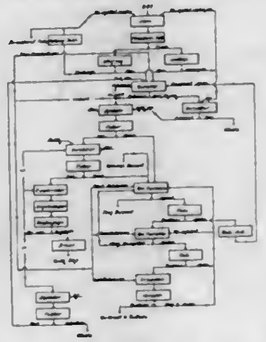
5. The method of preventing caking of finely divided potassium bromide which comprises mixing therewith a small amount of a non-caking agent selected from the group consisting of boric anhydride, metaboric acid and orthoboric acid.

2,639,220

METHOD OF MAKING COPPER SULFATE

Alfred M. Thomsen, San Francisco, Calif.

Application October 4, 1951, Serial No. 249,741
6 Claims. (Cl. 23—125)



1. The method of making copper sulphate from a sulphide copper ore which comprises; dressing said ore to obtain a concentrate in which more iron shall be present than copper with silica approximately the same as the iron; commingling said concentrate with powdered matte, obtained at a later step in the process, and with a previously roasted part of said mixture; roasting said mixture of raw and roasted material under a low red heat to obtain maximum formation of sulphates, the gases from said operation being scrubbed with water to extract their sulphuric acid content; recycling a portion of the calcines thus obtained and leaching the remainder with the scrubbing medium previously described; smelting the insoluble residue from said leaching to obtain slag, matte and copper bullion; recycling the matte as previously described; aerating the copper sulphate solution previously obtained in the leaching step and precipitating the resident ferric iron by means of a basic calcium compound; evaporating and crystallizing the purified copper sulphate solution thus obtained and separating the crystallized bluestone from the mother liquor.

2,639,221

NONCAKING SODIUM AND POTASSIUM HYDROXIDE FOR PHOTOGRAPHIC DEVELOPER POWDERS

Richard W. Henn, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 26, 1952, Serial No. 295,803
8 Claims. (Cl. 23—184)

1. The method of reducing the hydroscopic properties of sodium and potassium hydroxide which comprises coating the hydroxide with phthalic anhydride.

2,639,222

TREATMENT OF ACID WASTE LIQUORS

Edwin S. Tanski, Chicago, Ill., assignor to Marblehead Lime Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 22, 1949, Serial No. 128,915
5 Claims. (Cl. 23—200)

1. The method of treating acid waste liquors containing ferrous ions and sulfate ions which comprises slaking lime to provide a slurry, treating said liquor with said slurry to precipitate iron and to provide calcium sulfate in the resulting liquid phase, removing at least a portion of the liquid phase containing calcium sulfate, and recycling the same to the slaking stage for admixture with said lime.

2,639,223

CATALYTIC DECOMPOSITION OF HYDROCARBONS

James H. Shapleigh, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application May 18, 1946, Serial No. 670,839. Divided and this application August 4, 1951, Serial No. 240,458
5 Claims. (Cl. 23—212)

1. The process of decomposing a hydrocarbon to form hydrogen which comprises passing a gaseous mixture of hydrocarbon and steam over a heated catalyst comprising zirconium silicate, magnesia and from about 5% to about 50% of nickel.

2,639,224

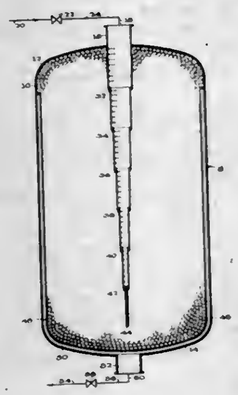
CATALYTIC REACTOR

Jerry McAfee, Oakmont, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 31, 1950, Serial No. 182,582
4 Claims. (Cl. 23—288)

1. A catalytic reactor for contacting a liquid-gas biphase charge stock with a bed of catalyst, comprising in combination a tubular elongated vessel which is closed at each end, an inlet for biphase charge stock at the central portion of one end of the elongated vessel, means positioned along the longitudinal axis of the elongated vessel for equally distributing biphase charge stock throughout a catalyst bed in the elongated vessel, said means comprising a plurality of separated tubular elements of successively smaller diameter, positioned along the axis of the elongated vessel in co-axial alignment, the element of largest diameter being connected to the inlet, the other of said tubular elements being each presented at one end to the end of an adjacent element of larger diameter nearer the inlet and radially spaced from the wall of such

larger element to define an annular shave-off port facing the incoming feed charge, and each said element having perforations in the tubular wall thereof for radial discharge of the fluid charge stock throughout the contained catalyst bed, the several said elements being so positioned that both ends thereof are at spaced intervals along the axis and at different distances from



the inlet and so that each successive tubular element is of smaller diameter than the preceding tubular element, collecting means for reaction product positioned at the periphery of the elongated vessel, a catalyst zone comprising the entire space intermediate the collecting means and the co-axial tubular elements, and means for removing collected reaction product from the tubular elongated vessel.

2,639,225

FURNACE BLACK PELLETIZING PROCESS

Louis Joseph Venuto, Bayside, N. Y., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware

No Drawing. Application August 31, 1946, Serial No. 694,410

6 Claims. (Cl. 23—314)

1. In the process for producing substantially dry pellets of furnace black wherein the furnace black is mixed with an amount of water not exceeding the weight of the black, the mixture agitated to form the moist black into pellets and the pellets dried, the step of including in the furnace black-water mixture a minor proportion of a surface active agent of the group consisting of the sodium salts of the aldehyde condensation products of sulfonated naphthalene, the sodium alkyl aryl sulfonates, the sodium salts of aryl alkyl poly-ether sulfonates, the sodium salts of aryl alkyl ether sulfates, sodium lauryl sulfate, the dibutyl phenyl phenol sodium disulfonates, the sodium sulfo lignates, the magnesium barium lignin sulfonates, the long chain fatty acid basic amides, cetyl dimethyl benzyl ammonium chloride, the aryl alkyl poly-ether alcohols, tannic acid and glucocide mixtures of sapotoxin lactosin and quillajac acid, the proportion of the surface active agent so included being within the range of 0.1 to 0.5 parts per 100 parts of the black, by weight.

2,639,226

METHOD OF STAINING EMBOSSING PLATES

Howard M. Gadberry and Erik Peterson, Kansas City, Mo., assignors to Hall Brothers Incorporated, Kansas City, Mo., a corporation of Missouri

No Drawing. Application August 27, 1951, Serial No. 243,926

3 Claims. (Cl. 41—41)

1. The method of staining designs on brass plates in the preparation for engraving of embossing plates consisting of, scribing a design on a pliable plastic sheet, scraping any burrs from around the scribed lines, applying a transfer wax coating onto the surface of the plastic sheet but not on the scribed lines, placing the wax coated sheet on a polished surface of a brass plate, rubbing the other side of the plastic sheet to transfer the wax coating thereof onto the brass plate except where the design has been scribed in the plastic sheet to leave clean exposed areas of the brass plate corresponding to the design to be reproduced, contacting the wax coated brass plate with a staining solution including a salt of a noble metal selected from the group consisting of chloroplatinic acid, bromoplatinic acid, platinum tetrachloride, platinum sulphate, chloroauric acid, bromoauric acid, gold chloride, palladium chloride and palladium sulphate to stain the exposed areas of the brass plate, and removing the wax coating from the brass plate with a suitable solvent to present a clean surface with the design stained thereon.

2,639,227

ANTICLOGGING FUEL OIL COMPOSITIONS

Everett B. Glendenning, Cranford, N. J., Calmy Wies, New York, N. Y., and John B. R. Caron, North Plainfield, N. J., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application September 2, 1950, Serial No. 182,962

20 Claims. (Cl. 44—76)

12. A non-clogging fuel oil normally susceptible to cause clogging due to the presence of cracked components in the fuel oil, containing in combination therewith from 0.0025% to about 0.05% of an oil-soluble calcium petroleum sulfonate and from 0.0015 to 0.0042% of oil-soluble calcium salt of octylphenol-formaldehyde condensation product.

2,639,228

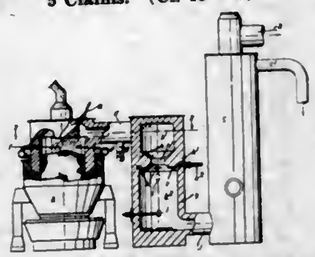
APPARATUS FOR CARBURETED WATER GAS

Norman Henry Williams, Westminster, England, assignor to Humphreys & Glasgow Limited, Westminster, England

Application September 6, 1949, Serial No. 114,164

In Great Britain September 16, 1948

5 Claims. (Cl. 48—80)



1. A carbureted water gas apparatus having a generator and having a carbureter devoid of checkerwork and having a superheater, said generator, carbureter and superheater being so connected by passages that the blast air passes through the generator and the blast gases pass down through the carbureter and up through the superheater, and the uprun follows the same course through the generator, down through the carbureter and up through the superheater; wherein the carbureter comprises a substantially cylindrical upper chamber having adjacent its top a substantially tangential gas inlet from the generator, said carbureter having a substantially cylindrical lower chamber of substantially same diameter as the upper chamber; a throat between the upper and lower chambers of the carbureter formed by an annular inward projection from the carbureter disposed a substantial distance below the gas inlet, the upper surface of which projection slopes downwardly and inwardly towards said throat, and the lower surface of which slopes downwardly and outwardly away from said throat; and movable means in said tangential carbureter inlet adjustable to divert the straight line flow of a portion of the gas in the connecting passage and to vary the angle of the lines of flow of said portion into said carbureter and the direction of said lines of flow in respect to the vertical axis of the carbureter.

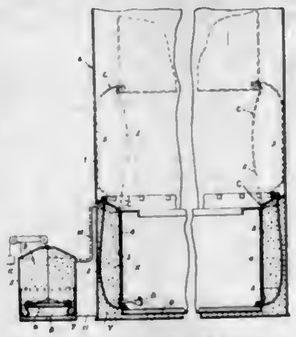
2,639,229

DRY SEAL PISTON-TYPE GAS HOLDER

John H. Wiggins, Chicago, Ill.

Application April 6, 1950, Serial No. 154,357

6 Claims. (Cl. 48—178)



1. A gas holder, comprising a container having a vertical side wall that forms a stationary portion of the storage chamber of the apparatus, a vertically-movable piston in said container that forms a movable wall of said storage chamber, a sealing device for said piston composed of a pair of substantially cylindrical flexible elements arranged in opposed relation with their outer edges attached to the container side wall and their inner edges attached to the piston, and a body of inert gas interposed between and confined by the opposed flexible elements.

2,639,230

FUEL AND AIR MIXER FOR USE IN CONJUNCTION WITH A CARBURETOR

Maurice Lefebre, Detroit, Mich.

Application August 25, 1950, Serial No. 181,519

3 Claims. (Cl. 48—180)

1. A fuel and air mixer adapted for use in conjunction with the carburetor of an internal combustion engine comprising a centrally apertured block having inlet and outlet openings, said block having formed along its interior surface a plurality of annular longitudinally spaced upwardly inclined flanges extending toward said inlet opening, a central cone shaped baffle within said block positioned centrally of its outlet opening and secured thereto and having a plurality of longitudinally spaced outwardly inclined annular flanges of decreasing diameter extending toward said inlet opening, and a transverse apertured plate secured within said inlet opening spaced from said baffle and having formed therein a plurality of apertured angularly inclined radially spaced fuel mixture obstructing surfaces.



2,639,231

FERTILIZER PROCESS AND PRODUCT

Ernest A. Snow, Jr., Amherst, Mass.

No Drawing. Application March 28, 1952, Serial No. 279,219

2 Claims. (Cl. 71—13)

1. The method of making a complete fertilizer base containing in available form the primary, secondary and also the trace elements essential to plant growth which comprises combining relatively small weights of ammonium chloride and a soluble ferrocyanide with a relatively large weight of sea water and in the presence of a reaction inducing weight of alcohol to derive a precipitate; separating, drying and grinding said precipitate; combining the precipitate with an equal or lesser weight of sewage sludge and in the presence of a sludge digesting weight of concentrated sulfuric acid; combining with the precipitate and sludge a similar acid neutralizing weight of a ground phosphate; adding thereto a relatively larger weight of dried sewage sludge; and drying and grinding the final product.

2,639,232

ADDITION MATERIALS FOR IRON AND STEEL MANUFACTURE AND METHOD OF USE THEREOF

James C. Vignos, Canton, Ohio, assignor to Ohio Ferro-Alloys Corporation, Canton, Ohio, a corporation of Ohio

No Drawing. Application October 19, 1951, Serial No. 252,210

14 Claims. (Cl. 75—130.5)

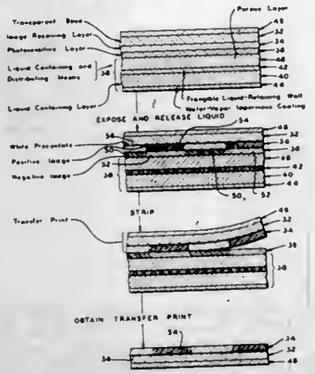
1. An addition material for making chromium additions to a bath of molten steel comprising a mixture of finely divided particles of a high chromium-containing ferro-alloy coated with a wetting agent not exceeding about 5% of the mixture.

2,639,233

PHOTOGRAPHIC PRODUCT FOR FORMING A TRANSFER IMAGE

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Original application June 9, 1944, Serial No. 539,550. Divided and this application February 1, 1949, Serial No. 73,961
19 Claims. (Cl. 95—8)



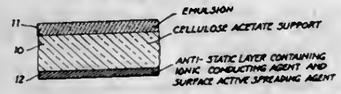
1. A composite photographic product containing at least one photographic chemical reagent and all of the liquid for rendering said reagent effective to process an image in a photoexposed, photographic, photosensitive element, said product being very thin in relation to its length and breadth and comprising a pair of layers impervious to said liquid and superposed with respect to one another, all of said liquid being held in said product between the outer surface portions of said layers and being confined within said product by said layers, one of said layers being substantially more frangible than the other so that the application of a given stress to both layers of said product causes the rupture of said more frangible layer without rupturing the other layer, the liquid being releasable from said product depthwise through the fractures formed in said more frangible layer, said photographic chemical reagent being from the class consisting of the silver halide developers and the silver halide solvents.

2,639,234

ANTISTATIC PHOTOGRAPHIC FILM

Donald R. Morey and Walter R. White, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 22, 1950, Serial No. 186,232
8 Claims. (Cl. 95—9)



1. An anti-static photographic film comprising a cellulose ester support having thereon a sensitive silver halide emulsion layer and in one of the layers of the film a mixture of (1) a surface-active ionic conductor material selected from the class consisting of salts of sulfonated naphthalene formaldehyde condensates selected from the group consisting of alkali metal and amine salts, alkali metal alkyl phosphates, and cellulose sulfates in which one valence of the sulfate is satisfied by a radical selected from the group consisting of alkali metal, ammonium and amine, and (2) a surface-active spreading agent selected from the class consisting of esters of polyhydric alcohols with higher fatty acids, alkyl aryl sulfonates, sodium salts of fatty alcohol sulfates, sodium salts of sulfated higher fatty esters, mixed fatty acid alkylolamine condensates, and alkylated aryl polyether alcohols, said surface-active conductor comprising from about 30% to about 95% of said mixture.

2,639,235

CASEIN-LACTIC-ACID COMPOSITION

John G. Kennedy, Mason, and Finn W. Bernhart, Holt, Mich., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 23, 1951, Serial No. 217,304
6 Claims. (Cl. 99—20)

1. A casein-lactic-acid composition in dry comminuted form containing 40% to 70% casein, 13% to 43% lactic acid, 0.2% to 0.9% sodium and not over 3% water, the sodium being present chiefly as sodium lactate, and the lactic acid being present partly in free and partly in combined form, said composition having the property on dispersion in milk of forming a smooth creamy curd.

2,639,236

METHOD OF PRODUCING A COFFEE SUBSTITUTE

James H. Zachary, Arlington, Calif.

No Drawing. Application October 18, 1950, Serial No. 190,869
4 Claims. (Cl. 99—74)

4. A method of preparing a coffee substitute from alfalfa which comprises breaking freshly cut alfalfa into finely divided parts, reducing the finely divided parts of the alfalfa to a pulpy product, coagulating juices drained and pressed from said pulpy product by heat, separating proteins from carbohydrates of said pulpy product by filtering, evaporating liquid from the product that passes through the filter, dehydrating the product from which the liquid is evaporated by heating a thin film of the product, comminuting the dehydrated product to minute granulations, and screening the final product.

2,639,237

TEA EXTRACTION

William R. Johnston, Bronxville, Ismar M. Reich, New York, and Glennard E. Miller, Bronx, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application July 20, 1950, Serial No. 175,024
4 Claims. (Cl. 99—77)

1. The process of producing a tea extract which comprises charging an extractor with tea leaves, evacuating air from the extractor, filling the evacuated extractor with carbon dioxide and then passing water through said extractor.

2,639,238

EFFERVESCENT DRINK CONCENTRATE

Joseph G. Alther, Evanston, and Prudence M. Van Arsdell, Chicago, Ill.

No Drawing. Application July 2, 1952, Serial No. 296,946
19 Claims. (Cl. 99—78)

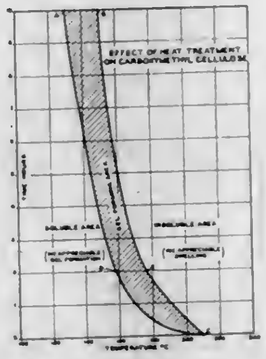
1. A process for producing an inorganic carbonate-monosaccharide complex which comprises heating to a temperature of from about 80° F. to about 200° F. a mixture of a normally crystalline monosaccharide and an inorganic carbonate containing from about 3% to about 15% by weight of water.

2,639,239

HEAT-TREATED ALKALI-METAL CARBOXYMETHYL CELLULOSE AND PROCESS OF PREPARING IT

Edwin S. Elliott, Petersburg, Va., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application November 18, 1950, Serial No. 196,408
8 Claims. (Cl. 106—197)



1. A process for reducing the solubility of a water-soluble alkali-metal salt of carboxymethylcellulose having between about 0.5 and about 1 carboxymethyl group for each anhydroglucose unit in the cellulose which comprises subjecting the said water-soluble salt in a substantially dry and finely-divided particulate form to a temperature between about 130° C. and about 210° C. under time and temperature conditions within the area ABC as defined on the appended drawing to form a heat-treated salt of reduced solubility characterized by the formation of separate, discrete, highly-swollen gel particles substantially all of which have diameters at least 2½ times, and a substantial majority of which have diameters at least 10 times the diameters of the dry particles when suspended in water having pH values between about 6 and about 10.

7. A substantially dry, particulate, heat-treated alkali-metal salt of carboxymethylcellulose of reduced solubility made in accordance with the process of claim 1 and characterized by the formation of separate, discrete, highly-swollen gel particles substantially all of which have diameters at least 2½ times, and a substantial majority of which have diameters at least 10 times the diameters of the dry particles when suspended in water having pH values between about 6 and about 10.

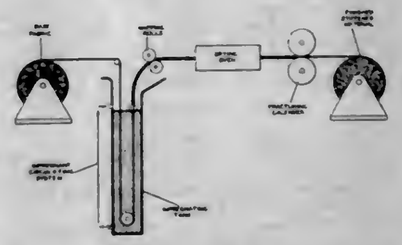
8. An aqueous gel suspension comprising a heat-treated alkali-metal salt of carboxymethylcellulose of reduced solubility, made in accordance with the process of claim 1, suspended in water having a pH value between about 6 and about 10.

2,639,240

SHOE STIFFENER AND METHOD OF MAKING SAME

George E. Ehle, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application June 26, 1948, Serial No. 35,453
6 Claims. (Cl. 117—8)



1. In a method of making a shoe stiffener material the steps comprising: (a) impregnating a fibrous base of napped fabric with an aqueous mixture of a reactive water-soluble urea-formaldehyde resin stabilized in partially condensed condition, sufficient inert thixotropic thickening gel, between about 1% and 5% based on the dry weight of the resin, to cause said resin to dry in discontinuous porous films, and 80% to 120% of finely divided acid-resistant filler based on the dry weight of the resin, said mixture containing between 55% and 65% of solids; (b) subjecting said impregnated fabric to a napping operation to distend the fibers of the fabric and to meter the quantity of impregnant in and on the fabric to provide a matrix containing when dry between 200% and 300% of the weight of the fabric; (c) heating said mixture on and within said fabric, while said fibers are maintained in distended condition by the thixotropic action of said gel, until at least about 95% of the moisture is removed from said aqueous mixture and a dried, porous matrix is formed on said distended fibers and within the body of the fabric; and (d) pressing said fabric in such dried condition and while it contains not more than 5% of water to fracture said porous matrix on said distended fibers and within the body of the fabric at a multiplicity of points throughout its extent to form a stiffener material which may be rendered soft and flaccid substantially instantaneously upon immersion in water.

2,639,241

NONFOGGY MOISTUREPROOF SHEET

Ralph T. K. Cornwell, Rosemont, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 14, 1948, Serial No. 38,741
3 Claims. (Cl. 117—68)

1. As an article of manufacture, a non-fogging sheet material comprising a non-fibrous, clear, transparent pellicle of regenerated cellulose having on both faces thereof a water-resisting coating comprising a resin from the group consisting of urea-formaldehyde and melamine-formaldehyde resins and an outer inherently moisture-proof coating on both faces containing a synthetic thermoplastic resin selected from the group consisting of cyclized rubbers and copolymers of 20 to 80% vinylidene chloride with a member from

the group consisting of vinyl chloride and acrylonitrile, said outer coating containing, on the weight of the resin, ½ to 5% of a compatible wetting agent selected from the group consisting of the surface-active dialkyl esters of sulfophthalic acid and of sulfosuccinic acid, the surface-active trialkyl esters of sulfotricarballyic acid, the sulfates of higher fatty alcohols having from 8 to 20 carbon atoms, surface-active sodium and ammonium salts of alkyl aryl sulfonates, surface-active alkylated aryl sulfonates, alkyl phenylene sodium sulfonates, the stearyl amide of methyl taurine, and the sodium sulfonate of oleic acid esters of aliphatic alcohols, said outer coating having the characteristic of heat-sealing at temperatures between 70 and 130° C.

2,639,242

ACID-RESISTANT WET STRENGTH PAPER

Tzeng-Jiueq Suen, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 14, 1950, Serial No. 179,386

1 Claim. (Cl. 117—155)

An acid-resistant wet strength paper made by incorporating into said paper an aqueous solution of a water-soluble resin, and curing the paper at 105–110° C. for about 2 minutes, said resin being a condensation product formed by refluxing an alkaline aqueous solution containing reactive ingredients consisting of formaldehyde, phenol, and beta-alanine in the mol ratio of 1.5:1.0:0.5, respectively, said paper undergoing substantially no loss in wet strength on being immersed for about one week in a 5% citric acid solution having a pH of about 1.8.

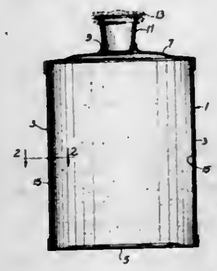
2,639,243

PRESERVATION OF ETHER

Edward Mallinckrodt, Jr., St. Louis, and Archie E. Ruehle, Kirkwood, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

Original application February 12, 1949, Serial No. 76,142. Divided and this application February 5, 1951, Serial No. 209,396

7 Claims. (Cl. 148—6)



1. The method of making a container for ether which comprises coating an internal surface of a container which has a layer of tin on the interior thereof, with a thermally unstable copper salt of an organic acid compound which decomposes upon baking in the presence of oxygen to give cupric oxide, and baking the container to form a mixture of cupric oxide and tin oxide on an internal surface thereof.

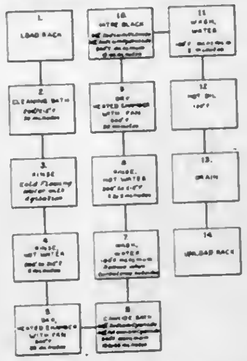
2,639,244

METAL FINISHING METHOD

Milton B. Vordahl, Trumbull, Conn., Robert H. Grace, Athol, Mass., and Paul H. Eccleston, Ilion, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware

Application July 15, 1950, Serial No. 174,062

10 Claims. (Cl. 148—6.11)



1. The process of securing a stable, uniform, substantially black coating upon an article having a surface of iron, nickel, cobalt, manganese, or of an alloy containing 50% or more by weight of one or more of said metals, said process comprising the steps of submerging the article in a first treating bath having as its essential ingredient a molten cyanide of at least one of the alkali metals at a temperature not less than about 940° F. for a period of time sufficient to develop a shallow hardened skin; and subsequently submerging the article in a second treating bath having as its essential ingredients a molten nitrate of at least one of the alkali metals admixed with from 5% to 15% of alkali metal hydroxide, said second bath being maintained at a temperature not less than about 940° F. for a period of time sufficient to develop the black color, said first treating bath having been aged at substantially working temperatures and thereby partially oxidized to increase the cyanate content and thereafter controlled to maintain the cyanate content in a range between about five percent and about twenty percent.

2,639,245

SULFIDE COATING

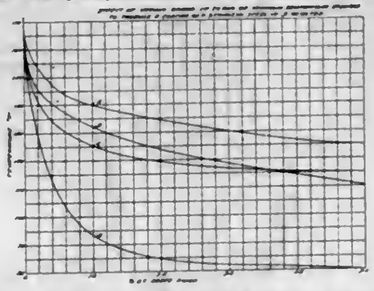
John Edgar Baxter, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich., a corporation of Michigan

Application January 12, 1950, Serial No. 138,251

12 Claims. (Cl. 148—6.24)

7. A composition for forming a sulfide coating on a steel surface which consists of an aqueous solution of a member of the group consisting of the sulfide ion and ions which form the sulfide ion through reduction on the steel surface and in a proportion equivalent to about 0.3–1.3% sulfite ion; a member of the group of anions consisting of chloride, bromide, and iodide in a proportion

of about 1% to about 5%; and an acid selected from the group consisting of sulfuric, hydro-



chloric, and nitric in a proportion sufficient to provide a pH in the range of about 0.3–1.1.

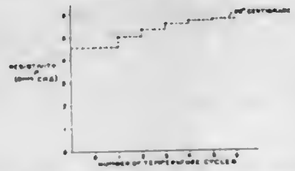
2,639,246

METHOD FOR STABILIZING SEMICONDUCTOR MATERIAL

William C. Dunlap, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 29, 1951, Serial No. 258,826

7 Claims. (Cl. 148—13)



1. The method of stabilizing the temperature versus resistivity characteristic of a germanium body having an original resistivity between 1 and 20 ohm centimeters at room temperature, which method comprises cyclically raising and lowering the temperature of the body for several times over a temperature range including two different temperatures at least 50 degrees apart lying between 0 and 200 degrees centigrade and corresponding to the operating temperature range of the body.

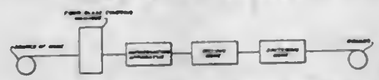
2,639,247

METHOD OF MAKING HEAT OR FLAME DETECTING ELEMENTS

Donald R. Squier, Pompton Plains, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey

Application November 17, 1949, Serial No. 127,845

14 Claims. (Cl. 154—2.28)



1. A method of making continuous flexible heat or flame detecting elements of the class described, which comprises applying a continuous flexible covering of fiber glass yarn to an electrically conductive flexible wire, and applying a material to the covering adapted to give the covering desired heat detecting characteristics said material being a substance selected from the group consisting of aluminum oxide, aluminum silicate, calcium oxide, chromic oxide, chromite, magnesium oxide, magnesium silicate, silicon carbide, titanium oxide, zirconium oxide and zirconium carbide.

2,639,248

DIELECTRIC MATERIAL

Ray L. Overholt, New Rochelle, N. Y., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York

Application July 27, 1949, Serial No. 107,052

10 Claims. (Cl. 154—43)



1. A lightweight sandwich construction capable of transmitting high frequency radar signals comprising: a plurality of layers of fibrous dielectric materials adhesively united over their entire contacting surface areas into a thin sandwich unit of substantially uniform thickness, at least one of said layers forming a low density core of low dielectric constant and substantially uniform thickness, and certain of said layers forming oppositely disposed skins for said core substantially uniformly spaced thereby from each other over substantially their entire opposing surface areas, said core layer comprising a plurality of substantially non-hygroscopic nettings of said dielectric materials laid up upon each other in planes substantially parallel to those of said skins and bonded together at their contacting surfaces by a set resin which does not substantially extend into the mesh openings in each of said nettings to provide a multiplicity of unfilled spaces, and said other layers comprising a substantially non-hygroscopic dielectric material which provides a pair of continuously surfaced outer coverings for said core.

2,639,249

LINER FOR RUBBER SHEETING

Emanuel Gurin and Karl Fox, Chicago, Ill., assignors to Rapid Roller Company, Chicago, Ill., a corporation of Illinois

Application April 26, 1949, Serial No. 89,672

1 Claim. (Cl. 154—46)



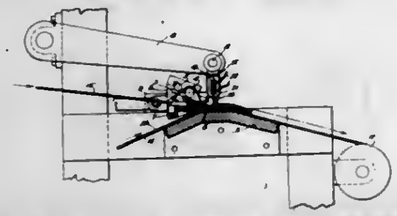
As a new article of manufacture, a laminated structure comprising alternate layers of a coated fabric liner and of a synthetic rubber selected from the group consisting of copolymers of butadiene and acrylonitrile and of copolymers of butadiene, acrylonitrile and styrene, said fabric liner being coated on both sides with a cured polyvinyl butyral composition comprising the reaction product of 100 parts by weight of polyvinyl butyral, an acetal forming compound equivalent to from 5 to 25 parts by weight of hexamethylenetetramine and an ester type plasticizer, whereby said rubber layer may be readily stripped from said liner without portions of said synthetic rubber layer being left stuck thereto.

2,639,250

NONWOVEN SOFT-SURFACE FLOOR COVERING AND METHOD OF PRODUCING THE SAME

Henry A. Reinhardt, Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn., a corporation of Delaware

Application November 7, 1951, Serial No. 255,232
16 Claims. (Cl. 154—78)



1. The method of making batt-covered sheet material which comprises corrugating a grained batt of fibrous material to form corrugations therein extending crosswise of the grain thereof, depositing the corrugated batt on the thermoplastic-coated face of a fibrous sheet, pressing the troughs of the corrugations against the coating on the sheet, locally heating the pressed troughs to soften the thermoplastic material and embed the troughs therein, and allowing the thermoplastic material to cool for retaining the embedded trough thereby fixedly connecting the batt to the fibrous material and forming a ribbed batt surface on the fibrous material.

2,639,251

PRODUCTION OF FILTER UNITS FOR A FILTER APPARATUS

Aloysius C. Kracklauer, Mundelein, Ill.

Application March 21, 1950, Serial No. 150,927
2 Claims. (Cl. 154—81)



1. In the production of a filter unit which comprises filtering sheets applied over opposite faces of a hollow foraminous disc and extended outwardly beyond the periphery thereof, the method of interconnecting and sealing the sheets adjacent their peripheral portions which comprises first assembling the filter sheets in place upon the disc, in then securing the sheets together at points outwardly of each disc periphery, in assembling in coaxial unitary relation a plurality of such discs with secured sheets applied thereto for rotation about a horizontal axis, and in slowly rotating the assembled discs and sheets as a unit above an adhesive bath with only the lowermost portions of the filter sheets on each disc dipped thereinto to thereby unite the peripheral portions of the sheets and simultaneously apply a sealing coat thereover.

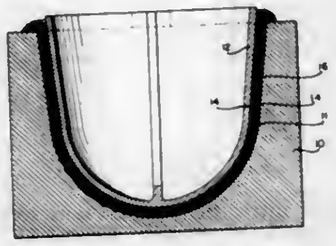
2,639,252

METHOD OF MAKING HOUSING FOR ELECTRICAL APPARATUS

Eli Simon, Los Angeles, Frank W. Thomas, Burbank, and Edward H. Burkart, North Hollywood, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.

Application February 17, 1949, Serial No. 76,952
8 Claims. (Cl. 154—83)

1. The method of making a laminated article comprising providing laminating material carrying a wet polymerizable unsaturated organic substance containing at least two groups per molecule as the reactive constituents, said groups being selected from the class consisting of vinyl groups and allyl groups, said substance being capable of copolymerizing with isocyanate molecules, and then bonding a cellular plastic layer



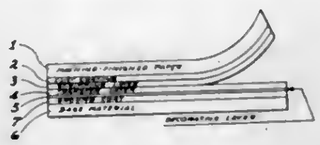
with said material by contacting a reactant cellular plastic isocyanate-containing mixture with the wet organic substance-carrying material, and then allowing the mixture to react to form the cellular plastic layer and to copolymerize with said organic substance of said laminating material.

2,639,253

MELAMINE TRANSFER

Thomas S. Reese, University Heights, Ohio, assignor to The Di-Noc Company, Cleveland, Ohio, a corporation of Ohio

Application April 28, 1951, Serial No. 223,570
16 Claims. (Cl. 154—95)



1. A process of making a hard-surfaced laminate comprising the steps of applying to a base material a tacky ground coat containing a resinous material; applying to the tacky ground coat a decorative transfer comprising a decorative layer, a resinous transfer layer, a resinous stripping layer, and a temporary carrier, the side of the transfer incorporating the decorative layer being imposed on the tacky ground coat on the base material; stripping from the transfer the temporary carrier and the associated stripping layer; superimposing a resin-impregnated tissue on the exposed transfer layer of the stripped transfer; and, to the end of consolidating the laminate, subjecting it to temperature and pressure conditions conducive to curing and bonding of the resinous components of the tacky ground coat on the base material, the transfer layer and the resin-impregnated tissue.

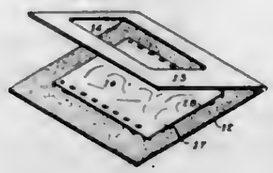
12. An article of manufacture comprising a base material; a transparent tissue impregnated with a cured melamine-formaldehyde resin; and, intervening between and bonded to both of them, a pressure-consolidated composite made up of a resinous layer in contact with the base material, a nitrocellulose decorative layer, and, in contact with the transparent tissue, a resinuous layer containing a cured melamine-formaldehyde resin.

2,639,254

METHOD OF MOUNTING 35-MILLIMETER SLIDES TO PREVENT FILM BUCKLE DURING PROJECTION

Robert C. Smith, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 27, 1951, Serial No. 212,868
11 Claims. (Cl. 154—116)



1. A method of mounting a transparency in a mount composed of a pair of apertured members adapted to be arranged in overlying relation with said apertures in registry to frame an image area of a transparency, at least one of said members being adhesively coated, comprising, in combination, positioning said transparency on one of said members with the image area in registry with the aperture thereof, preheating said transparency, and then sealing the edges of said transparency while still heated to said coated member.

2,639,255

MEANS AND METHOD OF MARKING TEXTILE ARTICLES

Hans Meyer, Richmond, England

No Drawing. Application February 11, 1948, Serial No. 7,711. In Great Britain January 25, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires January 25, 1963
7 Claims. (Cl. 154—118)

1. A removable tab for marking textile articles by adhesive application thereto, said tab comprising a strip of material carrying identifying indicia on one surface thereof and presenting on a portion only of the reverse side thereof exposed thermoplastic material having an initial softening point lying in the temperature range above 100° C. and below the scorching point of the textile material of which the article is formed, the remainder of the reverse side of said tab being free of thermoplastic material and serving as a tear-off finger piece.

4. A method of marking textile articles comprising the steps of applying to a surface of a textile article a marking tab in the form of a strip of textile material carrying identifying indicia on one face thereof and presenting on a portion only of the reverse side thereof thermoplastic material having an initial softening point lying in the temperature range above 100° C. and below the scorching point of the textile material of which the article is formed, positioning said tab with the identifying indicia facing outward from said fabric and with its opposite face against the article, applying pressure and heat at a temperature within the aforesaid range to the indicia-carrying face of said tab to cause said tab to adhere to said article over the portion of said tab presenting said thermoplastic material while leaving the remainder free to serve as a finger piece for eventual tearing-off of said tab and finally removing the heat and pressure.

2,639,256

METHOD OF MARKING TEXTILE ARTICLES

Hans Meyer, Richmond, England

No Drawing. Original application February 11, 1948, Serial No. 7,711. Divided and this application November 14, 1952, Serial No. 320,622. In Great Britain January 25, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires January 25, 1963
6 Claims. (Cl. 154—118)

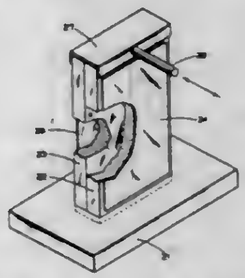
1. A method of marking textile articles comprising the steps of applying to the surface of a textile article a marking tab in the form of a strip of material carrying identifying indicia on one face thereof and presenting on the reverse side thereof thermoplastic material having an initial softening point lying in the temperature range above 100° C. and below the scorching point of the textile material of which the article is formed, positioning said tab with the identifying indicia facing outward from said article and with its opposite face against the article, applying pressure and heat at a temperature within the aforesaid range to a portion only of the exposed face of said tab to cause said portion to adhere to said article while leaving the remainder free to serve as a finger piece for eventual tearing-off of said tab, and finally removing the heat and pressure.

2,639,257

PROCESS FOR MAKING TRANSDUCER DEVICES HAVING BONDED ELEMENTS

Andrew Szegvari, Akron, and Charles K. Gravley, Lakewood, Ohio, assignors to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application May 3, 1950, Serial No. 159,746
18 Claims. (Cl. 154—140)



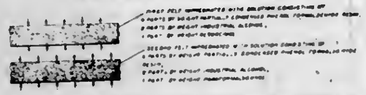
1. The process for making a transducer device having an electromechanically sensitive element one surface of which is secured to another similarly shaped surface comprising: applying to at least one of said two surfaces a bonding material, which is partially polymerized to enable further rapid polymerization for bonding purposes at temperatures not highly elevated, and which is in a state of molecular dispersion in a quantity of a polymerizable liquid solvent material to increase the liquidity of said bonding material and permit a satisfactory bonding contact with elemental areas of said surfaces in spite of the substantially large average molecular size of said partially polymerized bonding material; and placing said two surfaces one against the other with the introduction therebetween of a catalyst to effect a polymerization reaction involving simultaneously said partially polymerized bonding material and said polymerizable solvent material at a temperature under 90° C. without evolution of any volatile material, thereby effecting strong adhesion of said two surfaces.

2,639,258

PRODUCTION OF ARTICLES FROM SYNTHETIC RESINOUS MATERIALS

Cyril George Evans, Sandhurst, and Arthur Baker, Farnborough, England, assignors to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application December 29, 1950, Serial No. 203,568
In Great Britain April 2, 1948
10 Claims. (Cl. 154—140)



1. A method of manufacturing reinforced synthetic resinous products in which at least two reinforcements are employed and a meta-hydroxy phenol and an aldehyde are used as constituents of a resin forming condensation reaction, which comprises the steps of impregnating said reinforcements throughout with a liquid condensation product of a reaction between a monohydric phenol and an aldehyde, impregnating at least one reinforcement throughout with the meta-hydroxy phenol, separately impregnating at least one other reinforcement throughout with the aldehyde, subsequently bringing at least one meta-hydroxy phenol impregnated reinforcement into intimate contact with at least one aldehyde impregnated reinforcement whereby the meta-hydroxy phenol and the aldehyde become mixed and react in the presence of the monohydric phenol to form a cured composite resin throughout the reinforcements.

2,639,259

INSECTICIDES

Richard H. Wellman, Yonkers, N. Y., and Raymond W. McNamee, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application July 20, 1948, Serial No. 39,811
18 Claims. (Cl. 167—22)

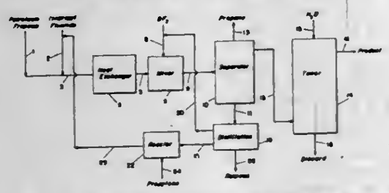
8. Composition for protection of a base against insects comprising a monobutoxy polypropylene glycol having a viscosity between 100 and 850 Saybolt Universal seconds at 100° F., an emulsifying agent and an insecticide.

2,639,260

PROCESS OF REFINING OILS

Robert M. Kennedy, Newtown Square, and Abraham Schneider, Philadelphia, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application July 14, 1950, Serial No. 173,745
24 Claims. (Cl. 196—23)



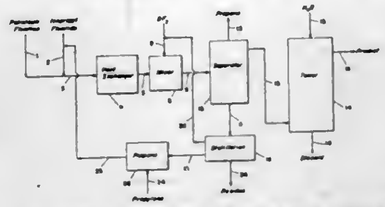
1. Process of refining hydrocarbons which comprises reacting a mixture of hydrocarbons and non-hydrocarbons with boron fluoride and an alkyl mono-fluoride selected from the group consisting of primary alkyl mono-fluorides having at least two carbon atoms per molecule and secondary alkyl mono-fluorides as the sole refining agents, said boron fluoride and said alkyl mono-fluoride being brought together only in the presence of said mixture of hydrocarbons and non-hydrocarbons, whereby said non-hydrocarbons are converted to a sludge, and separating said sludge from the reaction mixture.

2,639,261

HYDROCARBON PROCESS

Robert M. Kennedy, Newtown Square, and Abraham Schneider, Philadelphia, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application July 14, 1950, Serial No. 173,746
23 Claims. (Cl. 196—23)



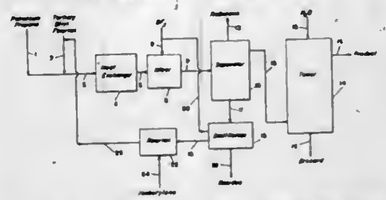
1. Process of treating hydrocarbons to separate aromatic hydrocarbons from a mixture thereof with saturated non-aromatic hydrocarbons which comprises reacting a mixture of aromatic hydrocarbons and saturated non-aromatic hydrocarbons with boron fluoride and an alkyl mono-fluoride selected from the group consisting of primary alkyl mono-fluorides having at least two carbon atoms per molecule and secondary alkyl mono-fluorides as the sole refining agents, said boron fluoride and said alkyl mono-fluoride being brought together only in the presence of said mixture of aromatic hydrocarbons and saturated non-aromatic hydrocarbons, whereby aromatic hydrocarbons are converted to a sludge, and separating said sludge from the reaction mixture.

2,639,262

PROCESS FOR REFINING OILS

Robert M. Kennedy, Newtown Square, and Abraham Schneider, Philadelphia, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application July 14, 1950, Serial No. 173,747
22 Claims. (Cl. 196—23)



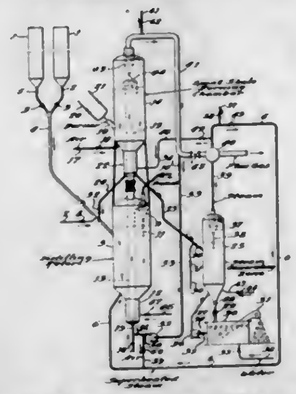
1. Process of refining hydrocarbons which comprises reacting a mixture of hydrocarbons and non-hydrocarbons with boron fluoride and a tertiary alkyl mono-fluoride as the sole refining agents, said boron fluoride and said tertiary alkyl mono-fluoride being brought together only in the presence of said mixture of hydrocarbons and non-hydrocarbons, whereby said non-hydrocarbons are converted to a sludge, and separating said sludge from the reaction mixture.

2,639,263

METHOD FOR DISTILLING SOLID HYDROCARBONACEOUS MATERIAL

Frederick W. Leffer, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 5, 1948, Serial No. 52,941
9 Claims. (Cl. 202—14)



1. A method for distilling solid hydrocarbonaceous material which comprises continuously passing said material in finely divided form downwardly through a confined distillation zone and therein contacting said material with an upwardly flowing gasiform heating medium substantially devoid of free oxygen, discharging mixed fluid distillation products and heating medium from the upper portion of said distillation zone and withdrawing a stream of distilled solid particles from the lower portion thereof into a vertically upwardly flowing gas stream comprising hot combustion gases, obtained as hereinafter set forth, passing the resultant mixture in a confined vertical straight line path upwardly to the top portion of a downwardly moving bed of solid particles maintained in a confined burning zone superimposed above said distillation zone, said confined straight line path extending through and in indirect heat exchange with said material in the distillation zone and said bed of solid particles in the burning zone, introducing a free oxygen-containing gas stream to the lower portion of said burning zone and thereby burning substantially the residual carbonaceous content from the solid particles in said downwardly moving bed, continuously removing hot combustion gases formed in the burning step from the upper portion of said burning zone and hot residual solid particles from the lower portion thereof and supplying a portion of said hot gases to said stream of distilled solid particles withdrawn from the distillation zone, passing a stream of the hot residual solid particles withdrawn from the burning zone in a generally downward direction substantially by its own gravity and at its temperature of discharge from said burning zone into a cooling zone and therein contacting the same with water so that said stream of residual particles is cooled and high temperature steam is generated, passing steam thus obtained into indirect heat exchange with a second portion of the hot combustion gases removed from the burning zone and thereby superheating the steam to a temperature substantially above that prevailing in the distillation zone, and introducing a stream of the thus superheated steam as said gasiform heating medium to the lower portion of said distillation zone.

2,639,264

VITREOUS ENAMELING PROCESSES AND PRODUCTS

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 13, 1949, Serial No. 87,375
6 Claims. (Cl. 204—34)

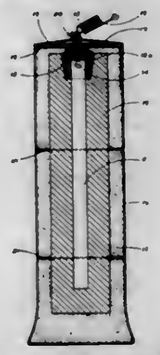
1. A method of controlling the adherence of vitreous enamels to mild alloy steels which consists essentially in subjecting a mild alloy steel having a carbon content between 0.02% and 0.20% to the action of a surface etching bath comprising an acid solution of ferrous sulfate, manganese dioxide and a compound from the group consisting of the soluble salts of zinc, cadmium, aluminum and magnesium, treating the steel with a dilute substantially non-etching acid solution containing a soluble salt of a metal from the group consisting of nickel and cobalt, then electrodepositing on the steel a thin coating of a metal from the group consisting of nickel, cobalt and alloys of nickel and cobalt, and firing a vitreous enamel on the plated surface.

2,639,265

ANODES FOR CATHODIC PROTECTION OF METAL STRUCTURES

Horace J. Simcox, Clifton Junction, near Manchester, England, assignor, by mesne assignments, to F. A. Hughes & Company Limited, London, England, a company of England

Application January 24, 1951, Serial No. 207,618
In Great Britain January 27, 1950
5 Claims. (Cl. 204—197)



1. A cathodic protection device for metal structures comprising a fabric bag, an anode, a loose granular backfill, and at least one ring, said anode being positioned centrally of said bag and being surrounding by said backfill, said ring being composed of fibrous material and surrounding said anode intermediate the ends thereof, and having its inner periphery engaging said anode and its outer periphery in fairly tight engagement with said bag.

2,639,266

LUBRICATING GREASE COMPRISING A COMPLEX ESTER BASE AND SODIUM MYRISTATE

John P. Dilworth and Charles H. Culnane, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application April 7, 1951, Serial No. 219,892
10 Claims. (Cl. 252—42)

10. A lubricating grease consisting essentially of an oleaginous liquid lubricating base, about 15–25% by weight based on the grease of a sodium soap of a soap-forming fatty material containing at least 70% based on the fatty material of myristic acid, 0.5–5% by weight of N,N' diphenyl p-phenylene diamine, 1.5–15% by weight of tricresyl phosphate and 0.1-1.0% of free alkali, said oleaginous liquid lubricating base comprising in minor proportion a mineral lubricating oil and in major proportion a complex polyester of lubricating characteristics obtained by reacting together under esterification conditions a polypropylene glycol containing from 6 to 9 carbon atoms, sebacic acid and 2-ethyl hexanol.

2,639,267

THIOCYANOGEN CONTAINING COMPOSITIONS

Harry F. Pfann, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application April 13, 1948, Serial No. 20,840
7 Claims. (Cl. 252—182)

1. A process for making a solution of thiocyanogen consisting essentially of reacting thiocyanic acid and hydrogen peroxide in an acidic water-containing mutual organic solvent at a temperature between 0 and 50° C.

2,639,268

PROCESS FOR TREATING DRY, HYDROPHILIC PROTECTIVE COLLOIDS

Herbert L. Heiss, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.

No Drawing. Application October 12, 1948, Serial No. 54,214
12 Claims. (Cl. 252—313)

1. In a process of preparing a dry, hydrophilic protective colloid for incorporation in a composition wherein a water-insoluble powder is maintained in stable suspension in an aqueous medium by means of said colloid, the improved steps of mixing said colloid with said water-insoluble powder in a dry state, then agitating said mixture and gradually adding water thereto until said protective colloid is put in a colloidal state, said water-insoluble material remaining invariable.

2,639,269

METHOD FOR PRODUCING LIGHTWEIGHT AGGREGATES

John B. Dube, Dallas, Tex.

Application August 23, 1950, Serial No. 181,036
10 Claims. (Cl. 252—378)

1. The method of treating a granular material to form lightweight aggregates composed of discrete substantially non-agglomerated granules comprising heating the granular material to a temperature intermediate the incipent and complete vitrification temperatures of the material to cause expansion of the granules, sealing the surface voids in the molten expanded granules with cementitious material, and treating the expanded granules with water or steam to set the cementitious material sealing the voids of the granules.

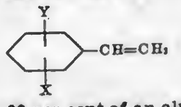
2,639,270

STYRENE MODIFIED ALKYD RESINS

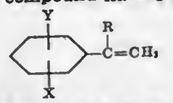
Gerald A. Griess, Midland, Mich., and Carl V. Strandskov, Des Moines, Iowa, assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 28, 1949, Serial No. 90,263
11 Claims. (Cl. 260—22)

1. In a method of making a styrene modified alkyd resin, the steps of esterifying a toluene-soluble interpolymer of from 30 to 90 parts by weight of a drying oil fatty acid and from 70 to 10 parts of a mixture consisting of from 50 to 80 per cent by weight of a monovinyl aromatic compound having the formula:



and from 50 to 20 per cent of an alpha-methylene alkyl aromatic compound having the formula:



in which formulas X and Y each represents a member of the group consisting of hydrogen and lower alkyl radicals containing not more than 3 carbon atoms and R is an alkyl radical containing not more than 2 carbon atoms, with a polyhydric alcohol in amount sufficient to neutralize the carboxylic acid groups of the drying oil fatty acid and leave an average of from 1.5 to 2.5 free hydroxyl groups per polyhydric alcohol nucleus, by heating the mixture at a temperature of from 200° to 240° C., to form a resinous ester containing free hydroxyl groups, thereafter mixing the polyhydroxy ester with a chemically equivalent proportion of phthalic anhydride and heating the mixture at a temperature of from 230° to 260° C.

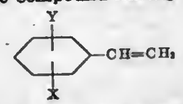
2,639,271

STYRENE, ALPHA METHYL STYRENE, DRYING OIL MODIFIED ALKYD RESINS

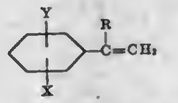
Gerald A. Griess, Midland, Mich., and Carl V. Strandskov, Des Moines, Iowa, assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 28, 1949, Serial No. 90,264
11 Claims. (Cl. 260—22)

1. In a method of making a styrene-drying oil modified alkyd resin, the step of forming a phthalate of a toluene-soluble interpolymer containing free hydroxyl groups resulting from the interpolymerization and condensation of from 30 to 90 parts by weight of a drying oil having a degree of conjugation not greater than 35 per cent, from 70 to 10 parts of a mixture consisting of from 50 to 80 per cent by weight of a monovinyl aromatic compound having the formula:



and from 50 to 20 per cent of an alpha-methylene alkyl aromatic compound having the formula:



in which formulas X and Y each represents a member of the group consisting of hydrogen and lower alkyl radicals containing not more than 3 carbon atoms and R is an alkyl radical containing not more than 2 carbon atoms and from 0.06 to 0.3 part by weight of a polyhydric alcohol per part of drying oil, by mixing the interpolymer containing free hydroxyl groups with a chemically equivalent proportion of phthalic anhydride and heating the mixture at a temperature of from 230° to 260° C.

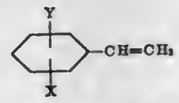
2,639,272

STYRENE, ALPHA METHYL STYRENE, DRYING OIL FATTY ACID INTERPOLYMERS

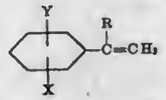
Gerald A. Griess and Arthur S. Teot, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 28, 1949, Serial No. 90,265
8 Claims. (Cl. 260—23)

1. A process for making a toluene-soluble interpolymer of a monovinyl aromatic compound, an alpha-methylene alkyl aromatic compound and a drying oil fatty acid, which comprises interpolymerizing from 10 to 90 parts by weight of a drying oil fatty acid and from 90 to 10 parts of a mixture consisting of from 50 to 85 per cent by weight of a monovinyl aromatic compound having the formula:



and from 50 to 15 per cent of an alpha-methylene alkyl aromatic compound having the formula:



in which formulas X and Y each represents a member of the group consisting of hydrogen and lower alkyl radicals containing not more than three carbon atoms and R is an alkyl radical containing not more than two carbon atoms, by heating the mixture of polymerizable materials at temperatures between 120° and 300° C.

2,639,273

COPOLYMERS OF ALLYL ESTERS OF STABILIZED ROSIN ACIDS

Charles W. Gould, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 1, 1950, Serial No. 153,496
8 Claims. (Cl. 260—27)

1. The process of copolymerizing an allylic ester of a stabilized rosin acid with an unsaturated compound containing a single ethylenic linkage as the only nonbenzenoid carbon to carbon unsaturation which comprises heating a mixture of the two monomers in the presence of a peroxidic polymerization catalyst.

2,639,274

SULFONATED PHENOL FORMALDEHYDE CONDENSATION PRODUCT AND METHOD FOR MAKING SAME

Richard A. Salathiel, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application April 3, 1952, Serial No. 280,365
6 Claims. (Cl. 260—29.3)

4. A water soluble salt of a sulfonated phenol formaldehyde condensation product which is made by forming a starting mixture of mono-sulfonated phenol, phenol, water and sulfuric acid, adding formaldehyde to said starting mixture while maintaining said mixture at a condensation temperature of about 85° C. to cause reaction between the phenol, mono-sulfonated phenol, and formaldehyde, the formaldehyde being added in an amount sufficient to result in a reaction mixture of about 15.5% concentration, based on the total phenol present in said starting mixture, said total phenol including free phenol and the phenol radical in said sulfonated phenol, having a viscosity in the range of 80 to 300 centipoises at 95° C., then adding a sufficient amount of phenol to the reaction mixture to stop further condensation therein, and neutralizing the condensation products with an aqueous solution of alkali metal hydroxide to form an aqueous solution containing a water soluble salt of sulfonated phenol formaldehyde condensation product.

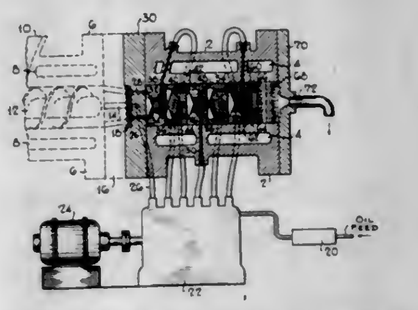
2,639,275

PROCESS AND APPARATUS FOR PREPARING OIL SOLUTIONS OF HIGH MOLECULAR WEIGHT POLYMERS

Herbert H. Vickers, Union Township, Union County, and Stanley E. Jaros, Rahway, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 28, 1950, Serial No. 176,328
11 Claims. (Cl. 260—34.2)

1. A process for the preparation of solutions of



high molecular weight polymeric materials in liquids capable of dissolving them which comprises extruding the polymeric material, passing the extruded polymer through a series of screens, admixing hot pressurized liquid with the screened polymeric material, passing the mixture of poly-

meric material and liquid through orifices and into a conical-shaped mixing and converging zone, passing the mixture of polymeric material and liquid through second orifices smaller in size than and misaligned axially with the first mentioned orifices, admixing additional hot pressurized liquid with the mass and diverging the flow for mixing and passing through additional misaligned orifices and repeating these operations until the mixture of polymeric material and liquid is substantially a solution.

2,639,276

ORGANOPOLYSILOXANES OF IMPROVED ADHESION CONTAINING PEROXIDES

Robert Smith-Johannsen and Curtis S. Oliver, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application November 21, 1950, Serial No. 196,944

15 Claims. (Cl. 260—37)

1. A composition of matter comprising (1) a titanium dioxide-filled organopolysiloxane convertible to the cured, solid, elastic state in which the organic groups are selected from the class consisting of alkyl, aryl, aralkyl, and alkaryl radicals, the said organic groups being present in the ratio of from about 1.98 to 2.2 organic groups per silicon atom, (2) a curing agent for (1) selected from the class consisting of benzoyl peroxide and tertiary butyl perbenzoate, and (3) an organic peroxide compound present in an amount up to 0.5%, by weight, based on the weight of the organopolysiloxane, the said organic peroxide compound being selected from the class consisting of ditertiary butyl diperphthalate, tertiary butyl hydroperoxide, dipersuccinic acid, ditertiary butyl diperadipate, and ditertiary butyl dipersuccinate.

2,639,277

MELAMINE-FORMALDEHYDE RESINOUS COMPOSITION WITH FILLER

Andrew A. Varela, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 23, 1951, Serial No. 252,791

4 Claims. (Cl. 260—39)

1. A resinous composition having diminished toxicity at decomposition temperatures consisting of from 35 to 45% by weight of a melamine-formaldehyde resin and from 65 to 55% by weight of a filler, respectively, based on the total weight of said composition; wherein said filler consists of from 10 to 20% by weight of china clay and from 90 to 80% by weight of glass fibers, respectively, based on the total weight of the filler.

2,639,278

METHOD OF PREPARING FINELY DIVIDED NYLON POWDER

Louis L. Stott, Reading, Pa., and Laurence R. B. Hervey, West Concord, Mass., assignors, by direct and meane assignments, to The Polymer Corporation, Reading, Pa., a corporation of Pennsylvania

No Drawing. Application December 22, 1950, Serial No. 202,405

11 Claims. (Cl. 260—78)

1. The process of producing a finely divided simple synthetic linear polyamide which comprises forming a mixture of said polyamide with a liquid solvent, heating said mixture to a sufficient temperature to dissolve said polyamide to form a solution, cooling said solution to precipitate the polyamide as a finely divided powder, removing said solvent to recover finely divided polyamide and drying said polyamide, said heating, cooling, removing of solvent, and drying of said polyamide being carried out under conditions which will not cause oxidation of said polyamide, said liquid solvent consisting of a polyhydric alcohol, said polyamide being a simple unsubstituted polyamide soluble in phenol and insoluble in methyl alcohol at room temperature and being one which on hydrolysis with hydrochloric acid yields material selected from the group consisting of (*a*) amino carboxylic acid hydrochloride, and (*b*) mixtures of diamine hydrochloride and dibasic carboxylic acid.

2,639,279

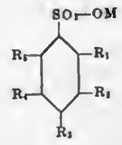
SOLUTION POLYMERIZATION EMPLOYING AQUEOUS SOLUTIONS OF AROMATIC SULFONATES

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 21, 1949, Serial No. 134,339

20 Claims. (Cl. 260—78.4)

1. A process for preparing a synthetic resin by the solution polymerization process comprising polymerizing in an aqueous solution containing a polymerization catalyst and from 20 to 40 per cent by weight of the water of an aromatic sulfonate containing from 6 to 9 carbon atoms having the general formula:



wherein each of R_1, R_2, R_3, R_4, and R_5 represents a substituent selected from the group consisting of hydrogen atoms and methyl, ethyl, propyl and isopropyl radicals and M represents an alkali metal atom, a monomeric compound containing a single aliphatic >C=C< group which is soluble in the solution at 50° C. to the extent of at least 3 grams per 100 cc. of the solution.

2,639,280

PROCESS FOR PREPARING CELLULOSE ACETAL DERIVATIVES

John W. Mench and Marian S. Lounsbery, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 30, 1950, Serial No. 187,823

7 Claims. (Cl. 260—228)

1. A process for preparing oxy derivatives of cellulose which comprises mixing a lower fatty acid ester of cellulose having 0.4–2.6 hydroxyls per C_6 unit of cellulose with a vinyl ether selected from the group consisting of the cyclic vinyl oxygen ethers and the aliphatic monovinyl oxygen ethers and a strongly acidic catalyst until a cellulose acetal derivative is obtained.

2,639,281

MANUFACTURE OF CARBOXYMETHYL CELLULOSE

Arthur Hodge, James Gordon Napier Drewitt, and John Downing, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application September 20, 1950, Serial No. 185,906. In Great Britain October 5, 1949

21 Claims. (Cl. 260—231)

1. Process for the manufacture of carboxymethyl cellulose which comprises impregnating cellulose with caustic soda by immersing the cellulose in a caustic soda solution of concentration 15%–33% at a temperature above 50° C., subjecting the impregnated cellulose to pressure until the molecular ratio of caustic soda to cellulose, as determined by analysis, reckoning the cellulose as $C_6H_{10}O_5$, is between 2.0 and 3.1 mixing a compound selected from the group consisting of chloracetic acid and sodium chloracetate with the alkali cellulose so obtained, and milling the mixture at a temperature kept below 25° C.

2,639,282

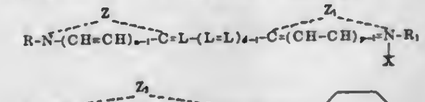
RESIN-DYES OF THE CYANINE TYPE

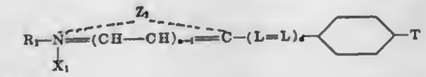
Robert H. Sprague, Leslie G. S. Brooker, and Samuel G. Dent, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 29, 1949, Serial No. 118,702

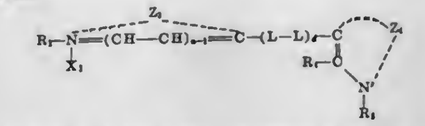
8 Claims. (Cl. 260—240)

1. A resin-dye selected from those represented by the three following general formulas:





and



wherein *d*, *n* and p each represents a positive integer from 1 to 2, X, X_1 and X_2 each represents an acid radical, R and R_3 each represents a primary alkyl group containing from 1 to 4 carbon atoms, R_1, R_2 and R_4 each represents a hydroxyalkyl group containing from 2 to 3 carbon atoms, the hydroxyl group of said hydroxyalkyl groups having been esterified by a polymer of a monomer selected from the group consisting of an α,β-ethylenically-unsaturated, aliphatic hydrocarbon carboxylic halide containing from 3 to 4 carbon atoms and an α,β-ethylenically-unsaturated, aliphatic hydrocarbon carboxylic anhydride containing from 4 to 12 carbon atoms, R_4 represents a member selected from the group consisting of a hydrogen atom, a methyl group and an ethyl group, L represents a methenyl group, T represents a member selected from the group consisting of a hydroxyl group, a dimethylamino group and a diethylamino group, Z_4 represents the non-metallic atoms necessary to complete a heterocyclic nucleus of the pyrrole series, and Z, Z_1, Z_2 and Z_3 each represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of oxazole series, the benzoxazole series, the nathphoxazole series, the thiazole series, the benzothiazole series, the naththothiazole series, the selenazole series, the benzoselenazole series, the thiazoline series, the 3,3-dimethylindolenine series, the quinoline series and the pyridine series.

2,639,283

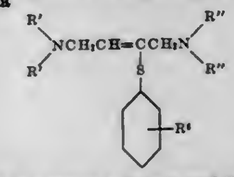
DIAMINOPHENYLTHIOBUTENES

Louis R. Freimiller, South Bend, Ind., and Charles H. McKeever, Glenside, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application May 13, 1952, Serial No. 287,592

5 Claims. (Cl. 260—247.1)

1. As new chemical substances, compounds of the formula



wherein R^0 represents a member of the class consisting of hydrogen and alkyl groups of not over nine carbon atoms, the R′ substituents when taken as individual groups represent alkyl groups of not over four carbon atoms, and when taken together represent a divalent chain from the group consisting of —$CH_2CH_2OCH_2CH_2$—, —$CH_2CH_2SCH_2CH_2$—, —$CH_2CH_2CH_2CH_2$—, and —$CH_2CH_2CH_2CH_2CH_2$—, which jointly with the nitrogen atom form a heterocycle, and the R″ substituents represent the same groups as R′.

2,639,284

PROCESS OF PREPARING MONOMETHYL PIPERAZINES

Henri Morren, Forest-Brussels, Belgium

No Drawing. Application November 25, 1950, Serial No. 197,633. In Belgium November 25, 1949

6 Claims. (Cl. 260—268)

1. A process of making N-monomethylpiperazine which comprises reacting piperazine with formaldehyde, thereby forming polymethylenepiperazine, subjecting said polymethylenepiperazine to hydrogenolysis, thereby forming N-monomethylpiperazine, and separating said N-monomethylpiperazine from the reaction mixture.

2,639,285

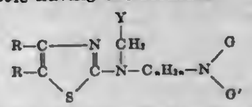
PRODUCTION OF THIAZOLYLAMINES

Clarence W. Sondern, Mendham, and Philip J. Breivogel, Glen Ridge, N. J., assignors to White Laboratories, Incorporated, Newark, N. J., a corporation of New Jersey

No Drawing. Application December 15, 1948, Serial No. 65,528

5 Claims. (Cl. 260—306.8)

1. A process for the preparation of a substituted thiazole having the formula

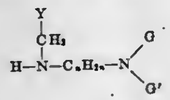


in which R is a radical of the group consisting of

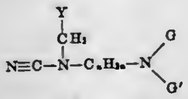
hydrogen, alkyl, aralkyl and aryl radicals; Y is a radical of the group consisting of phenyl, cycloalkyl, thienyl and alkyl-substituted, alkoxy-substituted, halogen-substituted and nuclearly hydroxy-substituted phenyl, cycloalkyl and thienyl radicals, G and G' are each radicals of the group consisting of alkyl and aralkyl radicals and, where G and G' are not as aforesaid, then



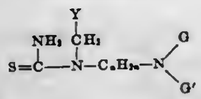
is a heterocyclic ring selected from the group consisting of pyrrolidino, piperidino, morpholino, thiomorpholino and methylpiperidino and n is an integer from 1 to 4, inclusive, which comprises (1) the reaction of cyanogen halide with a secondary amine having the formula



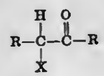
in which Y, G and G' have the foregoing significance, to produce the corresponding cyanamide having the formula:



(2) reacting the resulting cyanamide with hydrogen sulfide to produce the corresponding thiourea having the formula



and (3) subsequently reacting the resulting thiourea with a carbonyl compound of the group consisting of compounds having the formula



in which R is a radical of the group consisting of hydrogen, alkyl, aralkyl and aryl radicals and X is a halogen of the group consisting of chlorine, bromine and iodine, and acetals of the said carbonyl compounds, and subsequently recovering the resulting substituted thiazole.

2,639,286

ALKYLATION OF HETEROCYCLIC ORGANIC COMPOUNDS

Julian M. Mavity, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 29, 1948, Serial No. 41,396

17 Claims. (Cl. 260—329)

1. A process which comprises reacting a heterocyclic organic compound selected from the group consisting of thiophenes and furans containing a substitutable hydrogen atom attached to a carbon atom of the heterocyclic ring with a compound capable of yielding a hydrocarbon radical at condensation conditions in the presence of a catalyst prepared by reacting boric acid and a metal halide of the Friedel-Crafts type with the evolution of hydrogen halide.

2,639,287

THIOSEMICARBAZONES OF FURYLKETONES

John V. Scudi, Riverdale, and Floyd E. Anderson, Yonkers, N. Y., assignors to Nepera Chemical Co., Inc., Yonkers, N. Y., a corporation of New York

No Drawing. Application July 13, 1950, Serial No. 173,681

1 Claim. (Cl. 260—347.2)

As a new product, 2,5-dimethyl, 3-acetylfuranthiosemicarbazone.

2,639,288

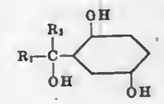
STABILIZATION OF FATS AND OILS WITH 2,5-DIHYDROXYPHENYL DIMETHYL CARBINOL AND RELATED ANTIOXIDANTS

Alan Bell and Donald J. Shields, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

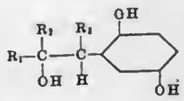
No Drawing. Application April 23, 1952, Serial No. 283,972

19 Claims. (Cl. 260—398.5)

1. Stabilized fats and oils containing from about 0.001% to about 1.0% by weight of an antioxidant selected from those having the following formulas:



and



wherein R_1 represents a substituent selected from those consisting of an alkyl group containing from 1 to 4 carbon atoms and an aryl group of the benzene series containing from 6 to 9 carbon atoms, R_2 represents an alkyl group containing from 1 to 4 carbon atoms, and R_3 represents a substituent selected from those consisting of R_1 as defined above and a hydrogen atom.

2,639,289

ADSORBENT REFINING OF OILS

Henry A. Vogel, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application April 21, 1950, Serial No. 157,260

22 Claims. (Cl. 260—428)

1. In a process of refining glyceride oil containing color matter, the steps of admixing the oil with synthetic magnesium silicate having active adsorbing surfaces, then blowing the oil at 200 to 250° F. with live steam to adsorb the color-

ing matter upon the magnesium silicate, and filtering off the magnesium silicate with the adsorbed coloring matter.

2,639,290

REACTION PRODUCTS OF CUPRIC CHLORIDE AND AMINO HYDROQUINONE ETHERS AND PROCESS

Joseph Mahler, Southport, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application June 30, 1950, Serial No. 171,473

12 Claims. (Cl. 260—438)

1. A relatively fine, powdery, black, substantially dense, low reflective composition which is a precipitate resulting from the reaction of cupric chloride and an ingredient selected from the group consisting of amino hydroquinone diethyl ether and amino hydroquinone dimethyl ether in a solvent selected from the group consisting of water, acetone and denatured alcohol.

2,639,291

PROCESS FOR MAKING THIOCYANOGEN DERIVATIVES

Harry F. Pfann, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

No Drawing. Original application April 13, 1948, Serial No. 20,840. Divided and this application May 6, 1952, Serial No. 288,300

18 Claims. (Cl. 260—454)

1. In a process for preparing a thiocyanogen derivative of a thiocyanogen acceptor selected from the class consisting of aromatic amines, phenols and olefinic compounds the steps of bringing thiocyanic acid, hydrogen peroxide, and said thiocyanogen acceptor together in a mutual solvent at a temperature between about 0 and 50° C. and recovering the thiocyanogen derivative therefrom.

2,639,292

METHOD FOR PREPARING MIXED ALKYL ESTERS OF PHOSPHORIC ACID

Kent C. Brannock, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 26, 1951, Serial No. 208,076

8 Claims. (Cl. 260—461)

1. A method for replacing, at least partially, the alkyl groups of a trialkyl phosphate the alkyl of which is of 1–10 carbon atoms which comprises reacting therewith at 120–200° C. a compound selected from the group of the alkyl chlorosulfinates and the alkyl chloroformates, the alkyl groups of which are of 1–10 carbon atoms and differ from those of the trialkyl phosphate, for a time sufficient to replace some of the alkyl groups of the trialkyl phosphate with alkyl groups from the other reactant used.

2,639,293

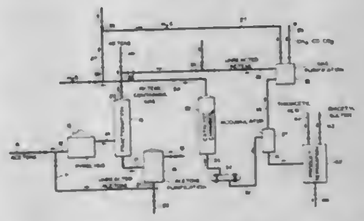
MANUFACTURE OF THIOACETIC ACID AND DIACETYL SULFIDE

Willie W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 16, 1948, Serial No. 65,622

13 Claims. (Cl. 260—500)

11. A process for the production of thioacetic acid and diacetyl sulfide, comprising passing hydrogen sulfide and ketene each in the vapor phase and in a mol ratio of hydrogen sulfide to ketene within the limits of 0.2:1 to 8:1 into contact with a solid adsorbent contact catalyst selected from the group consisting of an alumina, charcoal,



and molybdenum sulfide, at a temperature within the limits of 50 to 400° F., whereby thioacetic acid and diacetyl sulfide are formed by the vapor phase reaction of hydrogen sulfide and ketene, and recovering thioacetic acid and diacetyl sulfide as products of the process.

2,639,294

METHOD OF PRODUCING N-SUBSTITUTED DERIVATIVES OF 4-AMINO-2-HYDROXYBENZOIC ACID

Karl-Gustaf Rosdahl, Malmo, Sweden, assignor to Aktiebolaget Ferrosan, Malmo, Sweden, a corporation of Sweden

No Drawing. Application December 10, 1948, Serial No. 64,716. In Sweden December 11, 1947

2 Claims. (Cl. 260—519)

1. A method of producing N-substituted alkyl derivatives of 4-amino-2-hydroxybenzoic acid having not more than three carbon atoms in the N-substituent, which comprises mixing 4-amino-2-hydroxybenzoic acid with a member of the group consisting of dialkyl sulfates having one, two and three carbon atoms in each alkyl group in an alkali metal hydroxide solution, whereby the N-substituted alkyl derivative of 4-amino-2-hydroxybenzoic acid corresponding to the dialkyl sulfate used is formed and due only to the step of mixing the reagents.

2,639,295

MANUFACTURE OF UNSATURATED ALDEHYDES

Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 16, 1948, Serial No. 39,171

6 Claims. (Cl. 260—530)

1. A process for the preparation of an acroleinic unsaturated aldehyde of the formula $CH_2=C(R)CHO$ where (R) is a member from the group consisting of hydrogen, alkyl and aryl which comprises reacting formaldehyde with another aliphatic aldehyde of the formula $(R)CH_2CHO$, wherein (R) has the significance set forth above, said reaction being carried out by substantially continuously passing the formaldehyde and the other aldehyde to be reacted therewith into contact with a boiling catalyst liquid at a temperature within the range of 80–130° C., said catalyst liquid containing catalytic amounts up to 25% of a salt of a radical from the group consisting of NH_3, NH_2 and NH carried in an aqueous environment whereby the

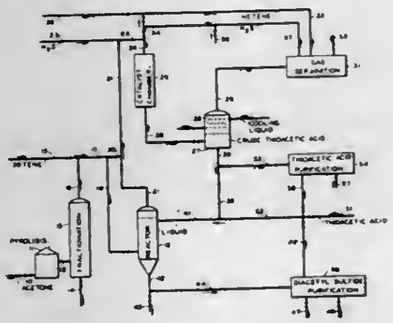
formation of the acroleinic unsaturated aldehyde is caused to take place and substantially continuously distilling off an azeotrope of the unsaturated aldehyde thus produced.

2,639,296

MANUFACTURE OF DIACETYL SULFIDE

Willie W. Crouch and Robert T. Werkman, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application January 4, 1949, Serial No. 69,216
13 Claims. (Cl. 260—545)



6. A process for the production of diacetyl sulfide comprising introducing ketene from a source described hereafter together with hydrogen sulfide in a mole ratio of hydrogen sulfide to said ketene within the limits of 2:1 to 8:1, into a reaction zone containing a solid adsorbent contact catalyst and therein reacting ketene with hydrogen sulfide in the vapor phase at a temperature within the limits of 10 to 200° C., recovering unreacted hydrogen sulfide and a thioacetic acid-containing liquid product from the resulting ketene-hydrogen sulfide reaction mixture and recycling recovered hydrogen sulfide to the zone of said catalyst, passing said thioacetic acid-rich liquid product in countercurrent flow relation with ketene introduced in a mole ratio to thioacetic acid greater than 1:1 and not exceeding 3.5:1, during said countercurrent contacting reacting ketene with thioacetic acid at a temperature within the range of 10 to 100° C., recovering unreacted ketene from the resulting ketene-thioacetic acid reaction mixture and passing same together with hydrogen sulfide into the zone of said catalyst, said recovered ketene being that introduced with hydrogen sulfide as described hereinbefore, and recovering diacetyl sulfide from the resulting ketene-thioacetic acid reaction mixture as a product of the process.

2,639,297

PREPARATION OF 2-HYDROXY-1,6-HEXANEDIAL

Richard R. Whetstone and Seaver A. Ballard, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 30, 1946, Serial No. 694,144
7 Claims. (Cl. 260—602)

1. 2-hydroxy-1,6-hexanedial.

2. A process of preparing 2-hydroxy-1,6-hexanedial which consists in reacting 2,3-dihydro-1,4-pyran-2-carboxaldehyde with water under neutral to acidic conditions of reaction.

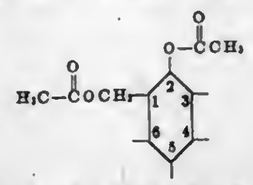
2,639,298

DEESTERIFICATION OF AROMATIC COMPOUNDS

James D. Head, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 23, 1949, Serial No. 134,838
4 Claims. (Cl. 260—623)

4. A method of de-esterifying the diacetate of a 1-hydroxy methyl-2-phenol corresponding to the formula



wherein each of the positions 3, 4, 5, and 6 is substituted with a member of the group consisting of hydrogen, halogen, lower alkyl, lower alkoxy, phenyl, phenoxy, aralkyl, alkaryl, alkaroxy and aralkoxy, each of the four latter radicals containing not more than ten carbon atoms, that comprises heating a mixture of such diacetate with methanol at a refluxing temperature in the presence of a strong acid, and distilling low-boiling material formed until the head temperature reaches the boiling temperature of methanol.

2,639,299

HALODIETHYLBENZENES

Earl T. McBee, Lafayette, Ind., assignor to Purdue Research Foundation, Lafayette, Ind., a corporation

No Drawing. Application December 3, 1943, Serial No. 512,809
7 Claims. (Cl. 260—651)

1. A halodiethylbenzene wherein the hydrogen of the substituting ethyl groups has been entirely replaced with halogen and the total number of fluorine atoms in such groups is at least 8.

2,639,300

PREPARATION OF FLUOROMETHANES

Robert P. Ruh and Ralph A. Davis, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 2, 1949, Serial No. 125,161
4 Claims. (Cl. 260—653)

1. A method of producing dichlorodifluoromethane which comprises passing a stream of a vapor phase mixture of difluoromethane and from 50 to 500 mol per cent thereof of molecular chlorine, the mixture being initially supplied as such, through a zone heated to a temperature between about 100° C. and about 400° C. using a contact time of from 1 to 25 seconds, and separating dichlorodifluoromethane from the effluent product.

2,639,301

PREPARATION OF BROMOFLUOROMETHANES

Robert P. Ruh and Ralph A. Davis, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 2, 1949, Serial No. 125,162
8 Claims. (Cl. 260—653)

1. A method of producing bromofluoromethanes that comprises effecting a vapor phase bromination of difluoromethane with molecular bromine at a temperature between about 250° C. and the pyrolysis temperature under the conditions employed, using a contact time not longer than about 75 seconds.

2,639,302

PREPARATION OF CHLOROBROMODIFLUOROMETHANE

Robert P. Ruh and Ralph A. Davis, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Continuation of application Serial No. 125,163, November 2, 1949. This application January 11, 1952, Serial No. 266,096
2 Claims. (Cl. 260—653)

1. A method of producing chlorobromodifluoromethane that comprises passing a vapor mixture of bromodifluoromethane and chlorine through a zone heated to a temperature at which hydrogen of the bromodifluoromethane is replaced by chlorine with consequent formation of hydrogen chloride, using a contact time not longer than about 75 seconds.

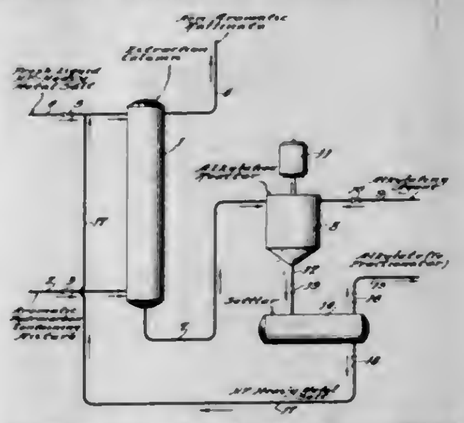
2,639,303

PRODUCTION OF ALKYL AROMATIC HYDROCARBONS UTILIZING A COMMON REAGENT AS AROMATIC EXTRACTANT AND ALKYLATION CATALYST

Carl B. Linn, Riverside, and George L. Hervert, Downers Grove, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application December 30, 1949, Serial No. 135,928
9 Claims. (Cl. 260—671)

1. A combination solvent extraction and alkylation process which comprises contacting a mixture of aromatic and paraffinic hydrocarbons with an extractive solvent for said aromatic hydrocarbon comprising liquid substantially anhydrous hydrogen fluoride containing dissolved therein a salt stable in said hydrogen fluoride and selected from at least one of the group consisting of the silver, gold, platinum, palladium, and mercury fluorides, cyanides, and nitrides, separating an extract phase comprising said solvent and said aromatic hydrocarbon and thereafter contacting said extract phase containing said solvent and aromatic hydrocarbon with an olefinic hydrocarbon at a temperature of from about —30°



to about 30° C. and other reaction conditions to alkylate the aromatic hydrocarbon with the olefinic hydrocarbon.

2,639,304

PURIFICATION OF AROMATIC HYDROCARBONS

Frank P. Hazlett, Pittsburgh, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application January 11, 1952, Serial No. 266,107
6 Claims. (Cl. 260—674)

1. A method of reducing the percentage of "paraffin" hydrocarbons in a mixture of a small percentage of "paraffin" hydrocarbons dissolved as normally occurring impurities in a liquid aromatic hydrocarbon produced from coal, said "paraffin" hydrocarbons being unsulfonatable, nonaromatic and of such nature as to distill over with the aromatic hydrocarbon, comprising treating the said mixture with anhydrous aluminum chloride and alpha picoline, at a temperature and pressure below the boiling point of the aromatic hydrocarbon, until the percentage of said "paraffin" hydrocarbons in the mixture is reduced to about 0.2% or less by volume.

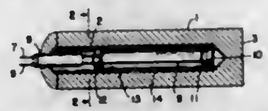
ELECTRICAL

2,639,305

ANNULAR THERMOCOUPLE

Walter P. Wills, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 28, 1950, Serial No. 152,422
12 Claims. (Cl. 136—4)



1. In a thermocouple, a substantially annular tube of sufficient strength to stand alone and of sufficient elasticity to yieldingly engage the walls of a protecting well and having interengaging surfaces of two different metals, said interengaging surfaces constituting the hot junction of the thermocouple.

2,639,306

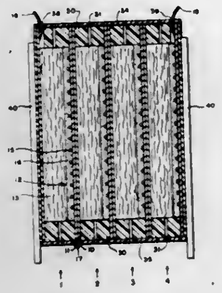
PILE BATTERY FABRICATION

Adolph Fischbach, Ocean Township, Monmouth County, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application February 2, 1951, Serial No. 209,194
1 Claim. (Cl. 136—112)
(Granted under Title 35, U. S. Code (1952), sec. 266)

A deferred action primary battery comprising a pile of flat cell units, each of said flat cell units consisting of a thin magnesium electrode, a cuprous chloride electrode, a spacer of bibulous electrolyte retaining material between said electrodes, a thin, flat, electrically conducting plate of liquid-tight material disposed between said cuprous chloride carrying electrode of one cell and the magnesium electrode of the adjacent cell, said conducting plate and said magnesium elec-

trode being welded together and said conducting plate and the cuprous chloride carrying electrode being welded together to form a unitary structure



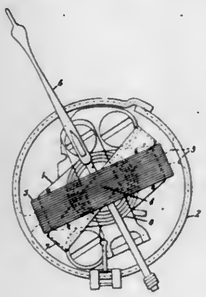
constituting at once a physical barrier with respect to the electrolyte and an electrical interconnection of low resistance between adjacent cells.

2,639,307

OFFSET DAMPING OF ELECTRICAL MEASURING INSTRUMENTS

Hans A. Bakke, Swampscott, Mass., assignor to General Electric Company, a corporation of New York

Application June 10, 1950, Serial No. 167,436
3 Claims. (Cl. 171—95)



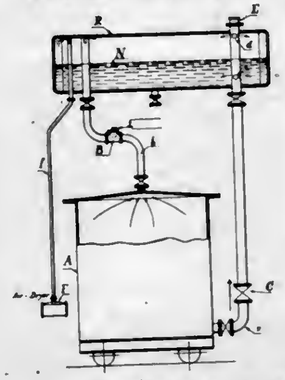
1. An electrical measuring instrument comprising a stationary field structure which contains an air gap and being provided with means for producing a flux across said gap, the flux crossing said gap having a nonuniform distribution, an armature coil mounted for movement through said air gap from a region of high flux distribution to a region of lower flux distribution over its operating range, and a damping member having no external circuit connections secured to said armature coil and also movable through said air gap, said armature coil and damping member being angularly offset in their directions of movement by an amount of the order of ½ of the normal deflection range of said instrument so that when the armature coil is in a region of low air gap flux concentration the damping member is in a region of higher air gap flux concentration within the operating range.

2,639,308

SAFETY DEVICE FOR TRANSFORMERS WITH EXPANSION TANKS

Léon Jean Egger, Aix-les-Bains, France, assignor to Societe Savoisienne de Constructions Electriques, Aix-les-Bains, France, a French corporation

Application July 18, 1949, Serial No. 105,431
In France July 20, 1948
8 Claims. (Cl. 174—11)



1. In a protection device for an oil bath transformer combined with an oil reservoir arranged above the transformer container, a pipe connecting the top of the container with the reservoir, said pipe carrying a gas detecting device having a float located in a chamber which collects the gas formed in the container and will cause operation of electric contacts by the float after the gas collected reaches a predetermined volume, the upper extremity of the pipe ending in the reservoir above the highest possible level of the oil therein, and a second pipe starting from the lower part of the transformer container and passing through the reservoir, with which it communicates with two openings disposed in the vicinity of the highest point and the lowest point of the reservoir.

2,639,309

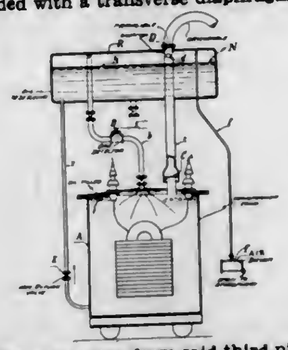
SAFETY DEVICE FOR TRANSFORMERS WITH OIL RESERVOIR

Léon Egger, Aix-les-Bains, France, assignor to Societe Savoisienne de Constructions Electriques, Aix-les-Bains, France, a French corporation

Application February 28, 1951, Serial No. 213,185
In France March 20, 1950
5 Claims. (Cl. 174—11)

1. An improved protective device for a transformer immersed in a tank completely filled with oil associated with a container partially filled with oil and arranged above the tank, said device comprising a first pipe connecting the top of the tank with the top of the container, a second pipe connecting the lower part of the tank with the lower part of the container, said first pipe being provided with a gas detecting device having a float located in a chamber which collects the gas formed in the tank to cause electric contacts to operate by means of the float as soon as the collected gas attains a determined volume, said protective device comprising further a third straight tube of large cross section and substantially vertical which connects the upper part of the container and which

extends through the upper wall of said container and has an open end above said upper wall and is provided with a transverse diaphragm situated



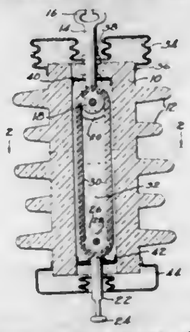
above the connection from said third pipe to said container and being constituted of a wall of small resistance.

2,639,310

OIL-FILLED STRAIN INSULATOR FOR DAMPING LINE VIBRATION

Lloyd F. Hunt, Glendale, Calif.

Application June 12, 1950, Serial No. 167,539
5 Claims. (Cl. 174—30)



1. A combined high-voltage strain insulator and damping device comprising a hollow cylindrical housing of insulating material, an expansible and contractible closure at each end of said housing, a tension member characterized by high electrical resistance and slight longitudinal resilience extending lengthwise within said housing, strain rods passing through and secured in sealed relation to said respective closures and connected within said housing to opposite ends of said tension member, a body of liquid insulating material in said hollow housing, and vibration damping means comprising a piston element snugly fitting within said housing and fixedly secured to one of said strain rods for cooperative damping action with said body of liquid.

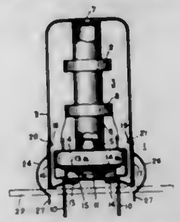
2,639,311

FASTENING DEVICE FOR SHIELD CANS

Frank W. Cook, Baldwinsville, N. Y., assignor to General Electric Company, a corporation of New York

Application June 28, 1949, Serial No. 101,751
5 Claims. (Cl. 174—35)

1. A unitary spring mounting clip of generally U-shaped configuration comprising an arcuate yieldable base portion, a pair of arms extending upwardly from said base portion, said arms having inwardly directed projections at the free ends thereof, each of said arms having a pair of downwardly extending arcuately-shaped members secured thereto near its free end, each of said members having a free end terminating below the plane of said base portion in a laterally extending hook portion.



2,639,312

INSULATING FLEXIBLE SPLICER CORE FOR PLURAL CABLE JOINTS

Daniel G. Kerwin, Chicago, Ill.

Application March 5, 1949, Serial No. 79,859
2 Claims. (Cl. 174—138)



2. A splicing core for multi-conductor cable splicing comprising an elongated block of flexible, non-conductive material, each end of the block being tapered to a substantially smaller diameter, a plurality of open-ended chambers spaced from each other around the longitudinal axis of the block and parallel thereto, and a split connecting each chamber to the adjacent surface of the block throughout the entire length of the chamber.

2,639,313

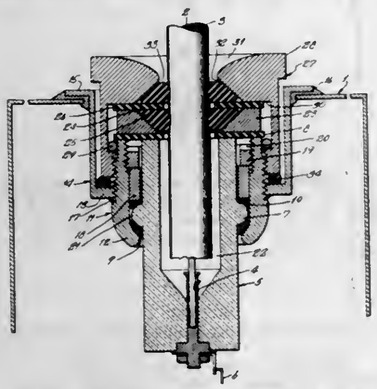
HIGH-VOLTAGE TERMINAL CONNECTOR

Frederick G. Street, Jr., New York, N. Y.

Application August 9, 1949, Serial No. 109,269
5 Claims. (Cl. 174—152)

1. In combination, a metal housing for a high voltage electrical device, an opening in a wall of said housing through which an insulation-sheathed conductor is to pass, metallic means rigidly united to said wall around said opening and extending interiorly of said casing and having a circular opening with a shouldered flange, a cup-like insulating member having an integral peripheral shoulder, said member being closed at one end and being supported within said casing and with its other end open and facing the exterior of said casing, a first sealing ring located between said flange and said shoulder, another sealing ring also engaging said shoulder but out of moisture conducting contact with the first ring, means to clamp said flange said shoulder and said rings together as a unit, separately removable means for sealing the open end of said

cup-like member and for gripping said sheathed conductor; said removable means comprising an annular bushing in threaded engagement with said first-mentioned metallic means, said bushing having a clamping surface inclined downwardly and outwardly from said sheathed conductor, a non-porous washer, a first sealing ring located between the inclined surface of said bush-



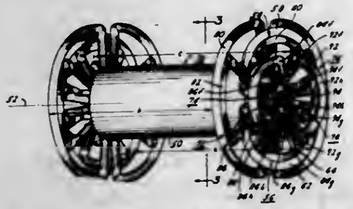
ing and said non-porous washer, a clamping washer having an inner surface inclined downwardly towards said sheathed conductor, a second sealing ring located between said non-porous washer and the inclined rim of said sealing washer, and a sealing gasket located between said clamping washer and the rim of said cup-like member.

2,639,314

ELECTROMAGNETIC DEFLECTION YOKE

James S. Bryan, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application July 9, 1952, Serial No. 297,896
9 Claims. (Cl. 175—21)



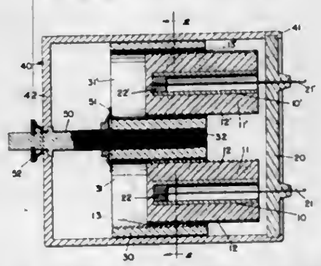
1. An electron beam-deflecting yoke assembly comprising first and second coil systems for producing magnetic lines of force respectively in first and second mutually perpendicular directions, said lines of force defining a magnetic field extending along the longitudinal axis of the said yoke assembly, said axis being substantially perpendicular to the said first and second directions, the said coil systems defining a surface of revolution about the said longitudinal axis, said first coil system comprising first and second coil assemblies of similar geometry, each of the said coil assemblies comprising a first coil having a multiplicity of axially arranged conductor portions conforming to the said surface of revolution, said conductor portions extending into opposing loop-ends each bent away from the said longitudinal axis and arranged respectively in first and second planes perpendicular to a third plane containing the said longitudinal axis and a line parallel to the said first direction, each of the said loop-ends having two groups of radially extending conductor portions, and arcuate conductor portions interconnecting the said radially extending conductor portions, the said second coil system comprising third and fourth coil assemblies of similar geometry arranged in space-quadrature with respect to the said first and second coil assemblies, each of the said third and fourth coil assemblies comprising second and third coils, each having a multiplicity of axially arranged conductor portions conforming to the said surface of revolution, said axially arranged conductor portions extending into opposing loop-ends each bent away from the said longitudinal axis, the loop-ends of the said second coil extending beyond the loop-ends of the said first coil and being arranged respectively in fourth and fifth planes perpendicular to a sixth plane containing the said longitudinal axis and a line parallel to the said second direction, and the loop-ends of the said third coil extending within the loop-ends of the said first coil and being arranged respectively in seventh and eighth planes perpendicular to the said sixth plane, each of said loop-ends of each of the said coils having two groups of radially extending conductor portions, and arcuate conductor portions interconnecting the said radially extending conductor portions, the axially arranged conductor portions of the said second and third coils occupying radially aligned circumferentially spaced positions about the periphery of the said surface of revolution, the mean lengths of the said axially arranged and radially extending conductor portions and the mean radius of the said arcuate conductor portions of the said first coil assembly being substantially equal respectively to the mean lengths of the said axially arranged and radially extending conductor portions and the mean radius of the said arcuate conductor portions of the said second coil assembly.

2,639,315

VARIABLE HIGH-VOLTAGE ELECTRICAL CONDENSER

Robert P. Gutterman, Silver Spring, Md., assignor to Engineering Research Associates, Inc., St. Paul, Minn., a corporation of Minnesota

Application June 15, 1949, Serial No. 99,203
8 Claims. (Cl. 175—41.5)



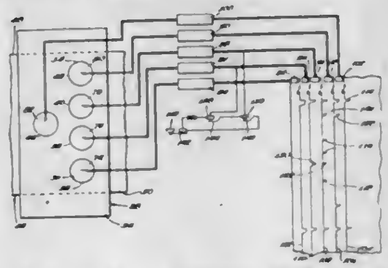
1. A high voltage variable condenser comprising a housing, a pair of capacitive elements carried by said housing, one of said elements being a high voltage element of tubular shape comprising an internal metal tube, a surrounding tubular body of ceramic material carried by said metal tube and an adherent layer consisting of a stable metal oxide overlying said ceramic material, the second element being a low voltage element comprising a metallic member having a tubular opening therein of a shape corresponding to said high voltage element, but slightly larger in size, whereby said high voltage element may slide axially within said opening, said opening having a surface formed of a layer of stable metal oxide and means carried by said housing for moving said elements relative to one another.

2,639,316

RAILROAD FISSURE DETECTOR CAR

Chester W. McKee and Richard W. McKee, Chicago, Ill., assignors to Teledetector, Inc., Chicago, Ill., a corporation of Delaware

Application January 24, 1949, Serial No. 72,382
7 Claims. (Cl. 175—183)



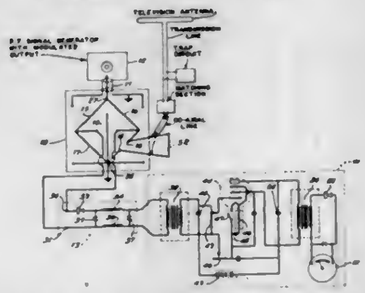
1. Rail car fissure detection apparatus comprising a car supported by track wheels, a plurality of pickup coils each wound on a vertically disposed nonmagnetic core and suspended above the rail ball, said pickup coils being non-overlapping longitudinally and transversely over the rail ball so that each will examine exclusively a longitudinal path of flux fields above the ball, and a separate amplifier connected to a separate visible signal producing means with the input of each amplifier connected to each pickup coil.

2,639,317

APPARATUS FOR DETERMINING IMPEDANCE CHARACTERISTICS OF TRANSMISSION LINES

John Oden Bennett, Bartow, Fla.

Application December 8, 1949, Serial No. 131,776
5 Claims. (Cl. 175—183)



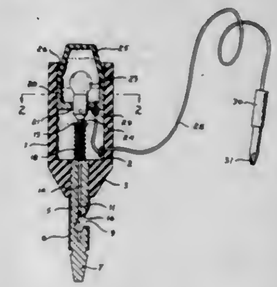
5. Apparatus for measuring the characteristic impedance of transmission lines and antennas, such as are used in the transmission or reception of television signals, over a wide band of frequencies comprising a shielded impedance bridge device having three legs made up of shielded resistors of predetermined values and terminals connected to the fourth leg of said bridge device, said terminals being adapted to be connected to a transmission line having an antenna connected to the other end thereof, said bridge device having an input circuit, a source of high frequency oscillations connected to said input circuit, means for varying the frequency of said source over a frequency band for which said antenna is to be used, said source having means for amplitude modulation of said oscillations at a predetermined low frequency, said bridge device having an output circuit, a detector connected to said output circuit, a frequency selective low frequency amplifier connected to the output of said detector to selectively amplify oscillations of said predetermined low frequency, and a meter calibrated to indicate the degree of impedance match between the transmission line and the antenna connected thereto as the frequency of said source is varied over said band, said meter being connected to the output of said amplifier.

2,639,318

CIRCUIT TESTER

Emile Des Roches, Vancouver, British Columbia, Canada

Application February 12, 1951, Serial No. 210,461
4 Claims. (Cl. 175—183)



4. A circuit tester comprising a hollow dielectric casing, a metallic lamp bulb socket slidable in the casing, a cylindrical contact member extending concentrically through the base of the casing and having a transverse notch, a metallic rod extending through said cylindrical contact member and into the notch, said rod being adapted to normally engage the centre terminal of a lamp within the socket, said socket being adapted to form a connection with the screw terminal of the lamp, a contact wire connecting the socket and extending outwardly through the casing, and means for urging the rod away from the notch, said cylindrical contact being covered with insulating material from the casing to a point beyond the transverse notch.

2,639,319

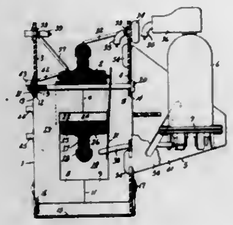
UNIVERSAL SWEEP AND HIGH-VOLTAGE TRANSFORMER

Charles E. Torsch, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application May 27, 1949, Serial No. 95,852
8 Claims. (Cl. 175—356)

5. A transformer comprising a base member, a pair of insulating side panels supported on said

base member and extending upwardly therefrom, said side panels having aligned apertures therethrough, a core assembly comprising a pair of U-shaped core members of magnetic material positioned in opposed relation so as to define a rectangular window therebetween and having portions thereof extending through said aligned



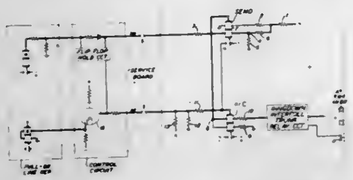
apertures, means for clamping said core members in abutting relation between said side panels whereby said core members are suspended therebetween, a coil form surrounding a leg of said core assembly extending between said panels, and a coil winding surrounding said coil form and supported thereby.

2,639,320

TELEGRAPH TRUNK AND CONTROL CIRCUITS

Leland A. Gardner, Summit, N. J., and Wilton T. Rea, Manhasset, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 22, 1950, Serial No. 202,208
8 Claims. (Cl. 178—2)



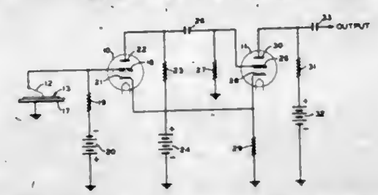
8. In a direct-current telegraph system, a full-duplex direct-current telegraph repeater, a potential responsive transmission direction control circuit, a receiving leg and a sending leg extending from said repeater through said control circuit, said repeater, control circuit and legs constituting a two-way transmission unit connectable at a first time in a hub telegraph repeater concentration group, said control circuit including instrumentalities, including a space discharge device as the potential responsive element, for regulating the direction of transmission through said legs, a relay trunk circuit, a magnetic relay telegraph repeater in said trunk circuit, a receiving leg and a sending leg in said repeater in said trunk circuit, said legs in said unit connectable at a second time to said legs in said repeater in said trunk, and impedance means in each of said legs in said repeater in said trunk to develop proper potentials in response to signals transmitted between said repeaters, so as to form an operable telegraph channel between said full-duplex repeater and said trunk.

2,639,321

FACSIMILE KEYING CIRCUIT

Frank T. Turner, Hampton Bays, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application January 18, 1951, Serial No. 206,644
10 Claims. (Cl. 178—5)



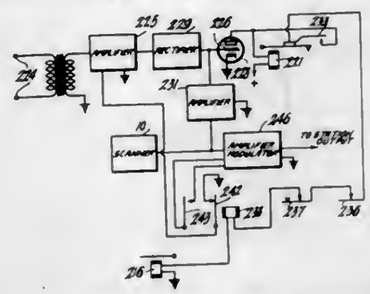
1. Facsimile transmission apparatus, comprising an electric stylus for scanning a transmitting blank having the subject matter to be transmitted delineated thereon by marking areas having a resistance substantially different from the remaining areas of said blank, a free-running multivibrator comprising first and second electron discharge tubes each having cathode, control grid and anode electrodes, means to interconnect said cathodes, an impedance element intercoupling said cathodes and ground potential and capacitive means intercoupling the anode of said first tube and the control grid of said second tube, means to suppress oscillations in said multivibrator circuit comprising biasing means coupled to the control grid of said first tube to prevent current flow in said first tube, means to produce oscillations in said multivibrator circuit while said electric stylus scans one of said areas comprising means to reduce the bias on the control grid of said first tube, said latter means including a series circuit arrangement intercoupling the control grid of said first tube and ground potential and comprising said electric stylus and said one area, and means coupled to said multivibrator circuit to derive therefrom an output signal while said electric stylus scans said one area.

2,639,322

FACSIMILE SCANNER

Charles J. Young, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 30, 1948, Serial No. 57,606
4 Claims. (Cl. 178—7.1)



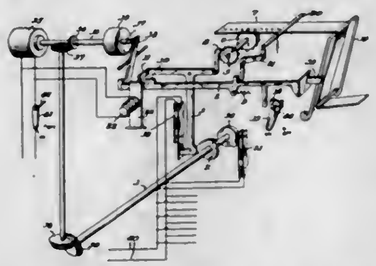
4. A transmitting station for a communication system comprising transmitting equipment, a discharge tube having at least a control electrode, an anode and a cathode, means for delaying operation of said transmitting equipment coupled to said anode, said transmitting equipment having means to develop a signal having a maximum and a minimum amplitude level, means to supply said signal to said control electrode, means for deriving a control signal, said means being responsive to a signal received at said transmitting station, and means for applying said derived signal to said control electrode, said operation delaying means thereby becoming operative upon coincidental occurrence of a signal of one amplitude level with a derived control signal.

2,639,323

TELEPRINTER TRANSMITTER FOR PERFORATED TAPE RECORDS

Herbert Wüsteney, Kladow, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a German corporation

Application October 5, 1950, Serial No. 188,613
In Great Britain October 19, 1949
12 Claims. (Cl. 178—17)



1. A perforated tape record signal transmitter of the class described comprising a drive motor, a transmitter shaft controlled by said drive motor, transmitter contacts, cam means on said transmitter shaft for periodically actuating said transmitter contacts, said transmitter shaft being directly coupled with the shaft of said drive motor, and contact means for short-circuiting said transmitter contacts to interrupt transmission under control of said perforated tape record while continuing operation of said drive motor.

2,639,324

TUNED INDUCTIVE COUPLING SYSTEM

Robert L. Harvey, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 29, 1948, Serial No. 24,001
16 Claims. (Cl. 178—44)



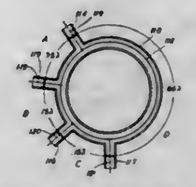
16. In a high frequency signal conveying system, the combination with a tuned signal responsive circuit comprising an inductance element, and a ceramic body having a high dielectric constant having at least one face in inductive coupling relation to said inductive element and dimensioned to resonate at the frequency of said tuned circuit.

2,639,325

HYBRID RING

Willard D. Lewis, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 24, 1950, Serial No. 151,620
10 Claims. (Cl. 178—44)



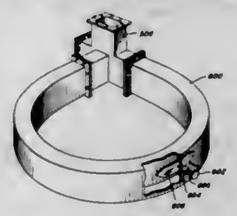
2. An electrical hybrid junction adapted to join four external electrical circuits, each having a predetermined impedance of Z_0, said junction comprising a closed loop of uniform transmission line having a characteristic impedance of Z_0 and four connection points spaced along said loop, three of the intervals between said connection points each being .15λ, the fourth interval between connection points being .65λ where λ is the wavelength of the energy to be transmitted through said junction.

2,639,326

ELECTROMAGNETIC WAVE MICROWAVE FREQUENCY STRUCTURE USING HYBRID JUNCTIONS

Douglas H. Ring, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 6, 1951, Serial No. 214,061
20 Claims. (Cl. 178—44)



1. The combination which comprises an electromagnetic wave, microwave frequency, hybrid structure having four terminals, a first terminal of said structure being conjugately related to a second terminal of said structure, a third terminal of said structure being conjugately related to a fourth terminal of said structure, said first terminal being effectively electrically in series with said third and fourth terminals, said second terminal being effectively electrically in parallel with said third and fourth terminals, and an electromagnetic wave, microwave frequency, impedance structure having an input terminal and an output terminal, said structure being proportioned to manifest predetermined electrical transmission properties between said input and said output terminals, the input terminal of said structure being electrically connected to one of said first-mentioned two terminals of said hybrid structure and the output terminal of said structure being electrically connected to one of said last-mentioned two terminals of said hybrid

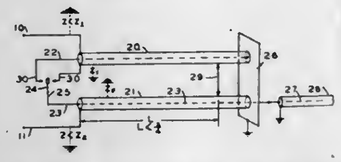
structure, whereby a predetermined transmission characteristic of said over-all combination between the other of said first-mentioned two terminals of said hybrid structure and the other of said last-mentioned two terminals of said hybrid structure is obtained.

2,639,327
ULTRAHIGH-FREQUENCY CAVITY RESONATOR
Gerald S. Heller, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application June 7, 1945, Serial No. 598,154
5 Claims. (Cl. 178—44)



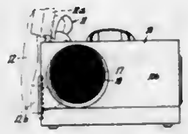
1. An ultra-high frequency device comprising a cavity resonator having conducting walls and being adapted to be resonant to ultra-high frequency electromagnetic wave energy in a plurality of modes and electromagnetic wave energy absorptive and dissipative means forming a part of the inner surface of said conducting walls at points at which the current flowing along the surface of said conducting walls for a desired one of said resonant modes is to be a minimum.

2,639,328
BALANCED TO UNBALANCED ENERGY TRANSFER CIRCUIT
John B. Caraway, Evansville, Ind., assignor to the United States of America as represented by the Secretary of War
Application June 23, 1945, Serial No. 601,117
10 Claims. (Cl. 178—44)



2. Electrical apparatus for transferring electrical energy at radio frequencies between first and second circuits, comprising: a pair of coaxial transmission line sections spaced substantially in parallel relationship with one another; means for short circuiting one of said sections at one end thereof; a third circuit including the outer conductors of said sections, and means for coupling said outer conductors to said first circuit; a fourth circuit including the inner conductor of the other of said sections connected at one end thereof to said second circuit, at least a portion of one of the conductors of said one section, and means connecting the other end of said last-named inner conductor to said portion of said one section; and means for shorting said outer conductors to ground at a distance from their other ends corresponding to less than one-quarter of a wavelength of the operating radio frequency, said outer conductors having an impedance with respect to ground that is high in comparison with the impedance to ground of said first circuit.

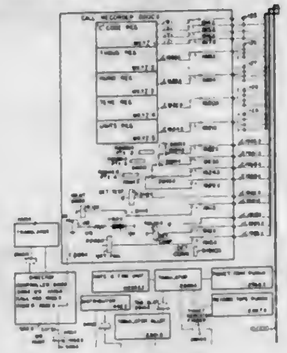
2,639,329
AMPLIFYING APPARATUS FOR USE WITH TELEPHONES
David J. Ferrier, St. Kilda, Victoria, Australia
Application March 27, 1951, Serial No. 217,722
6 Claims. (Cl. 179—1)



1. In amplifying apparatus for use with a telephone instrument of the hand-set type having a mouth-piece and an ear-piece; a cabinet having a vertical exterior wall, a two-armed bell crank member, flat pivot projections extending laterally from one arm of said bell crank member, supporting brackets for said projections secured to said cabinet adjacent the upper portion of said vertical wall, resilient packing material between said flat pivot projections and said supporting brackets to cushion resiliently the projections in the brackets, an inductive pick-up device mounted in the other arm of the bell crank member, said one arm of the bell crank member being formed to support the telephone ear-piece whereby the mouth-piece hangs downwardly below said bell crank member and the arm of the bell-crank member carrying the inductive pick-up device is urged by the weight of the telephone instrument to lie against the front face of the ear-piece, said vertical wall of the cabinet having an opening into which the mouth-piece of the hand-set projects when the ear-piece of the telephone instrument is supported by said bell crank member, a resilient seating member for the mouth-piece of the telephone instrument in said opening in the vertical wall of the cabinet, an amplifier in the cabinet, electric circuit connections between said amplifier and said inductive pick-up device, a loudspeaker in the cabinet, electric circuit connections between the amplifier and the loudspeaker and a tubular member in the cabinet positioned to pick up local sound and to conduct the same to said opening in the vertical wall of the cabinet for communication to the mouthpiece of a telephone instrument positioned in said opening.

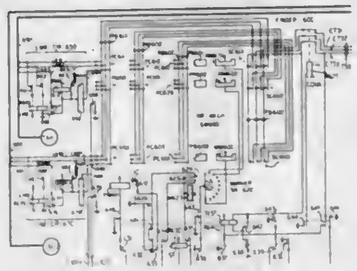
2,639,330
CALLING LINE IDENTIFICATION APPARATUS
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application March 4, 1949, Serial No. 79,677
26 Claims. (Cl. 179—7.1)

1. A line identification circuit for a telephone system having a subscriber line identified by a multi-digit designation, comprising a single gas-filled electronic device individual to said line, said device having only two electrodes, one of said electrodes connected to said line, means controlled over said line responsive to a call initiated thereover for rendering said gas-filled device conducting between said electrodes, a plural digit register, and control means connected to the other of said electrodes and operated responsive to the conductivity of said device for first operating said register to register a portion of the digits of the multi-digit designation of said calling line



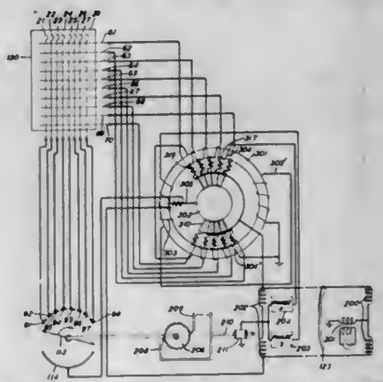
and for thereafter operating said register to register the remaining portion of the digits of the multi-digit designation of said calling line.

2,639,331
AUTOMATIC TELEPHONE SYSTEM
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application March 11, 1947, Serial No. 733,915
21 Claims. (Cl. 179—18)



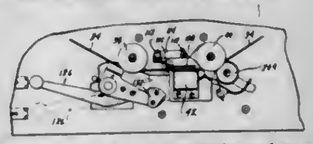
1. Switching apparatus comprising a plurality of groups of lines, a plurality of busses, a trunk, a plurality of members respectively associated with said groups of lines, a plurality of contact sets respectively associated with said busses, a plurality of magnets respectively associated with said members and respectively associated with said contact sets so that any particular one of said magnets is commonly associated with a particular one of said members and with a particular one of said contact sets, said magnets being respectively provided with armatures selectively operative to select any one of said members and to operate any one of said contact sets, means for selecting any one of said magnets and for operating its armature to select the associated one of said members and to operate the associated one of said contact sets, means for operating said one member, and means controlled by the operation of said one member for connecting the individual lines in the associated one of said groups of lines respectively to said busses, the operation of said one contact set connecting the associated one of said busses to said trunk.

2,639,332
ROTATING-FIELD PULSE TRANSMITTER
David B. Parkinson, Cleveland Heights, Ohio, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 13, 1950, Serial No. 149,326
5 Claims. (Cl. 179—90)



1. In combination in a telephone signaling system, apparatus for generating a plurality of pulses comprising a subscriber's line, means for receiving alternating-current power from said line, phase adjusting networks for obtaining polyphase currents from said alternating current power, apparatus for generating a radial rotating magnetic field from said polyphase currents, a plurality of saturable magnetic elements radially disposed within said magnetic field, a winding surrounding each of said magnetic elements having a pulse generated therein as the zero of the rotating magnetic field passes the position of the respective magnetic elements, and switch means for connecting said winding to said line for transmitting said pulses over said line.

2,639,333
MAGNETIC RECORDER
Hugh A. Howell, Valparaiso, Ind., and Elmer B. Offutt, Kansas City, Mo., assignors to The Indiana Steel Products Company, Chicago, Ill., a corporation of Indiana
Application May 12, 1947, Serial No. 747,540
11 Claims. (Cl. 179—100.2)



1. In a device to vary a condition of a medium in accord with an intelligence, a magnetic transducer head to impart a controlled degree of said condition to an incremental length of said medium in accord with the time variations in said intelligence, a single drive for said intelligence conditioning device operable in one condition to cause travel of said medium across said head in a predetermined direction and in another condition to impart no travel to said medium, an erasing device movable independently of said head and operable in a first condition to erase intelligence or noise from said medium before it

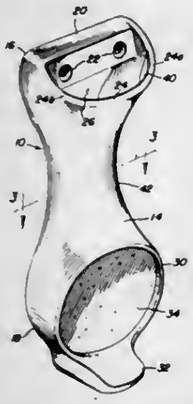
reaches said head when traveling in said predetermined direction and in a second condition to have no effect on the said condition of said medium, and elements interconnecting said erasing device and said drive to shift said erasing device from said first condition to said second condition when said drive is changed from said one condition to said other condition, whereby accidental erasure of said medium is prevented.

2,639,334

TELEPHONE HANDSET HANGER

John J. Fleming, Davenport, Iowa

Application February 9, 1950, Serial No. 143,266
2 Claims. (Cl. 179—146)



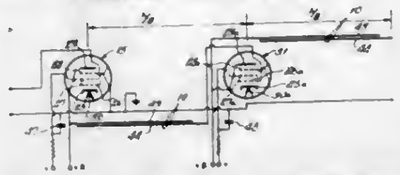
1. For use with a conventional telephone instrument of the type having a hand-set demountable from the circuit-controlling key of the instrument and combining a circular transmitter and a circular receiver spaced apart and joined by a handle in such manner that the planes of the circular faces of the transmitter and receiver converge toward the handle: a support for suspending the demounted hand-set by its receiver, comprising an elongated body of relatively rigid material adapted normally to assume an upright position and having a back side to lie flat against a wall or similar upright and including a front or outer side provided integrally with a lower carrying part and an upper carrying part joined by an integral intermediate body part and spaced apart on the order of and respectively adapted to face the transmitter and receiver faces; means on the upper carrying part including an upwardly and outwardly opening recess, an integral outwardly projecting concave lip having a relatively narrow marginal edge to hook under the receiver adjacent to its junction with the handle, the underside of the lip receding toward the body so as to lie out of contact with the hand-set handle and thus to provide a free fulcrum on which the receiver-supported hand-set may swing freely inwardly for engagement of the transmitter with the lower carrying part; and said lower carrying part having a flat, circular, outwardly facing surface of a diameter slightly larger than the diameter of the transmitter face and lying in a plane at such angle to the body that the transmitter face of the freely suspended hand-set swings inwardly to seat in face-to-surface contact on said surface, said lower part further including integrally therewith a peripheral wall about said surface and outstanding therefrom generally uniformly to such distance as to receive and loosely encircle the rim of the seated transmitter for blocking external sound waves.

2,639,335

ULTRAHIGH-FREQUENCY AMPLIFIER

Dougal B. Reeves, Madison, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware

Application June 23, 1950, Serial No. 169,799
3 Claims. (Cl. 179—171)



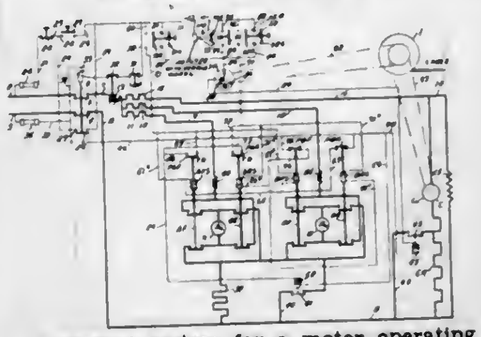
1. Ultra high frequency amplifier apparatus, comprising a metal housing having a metal partition therein defining a ground plane, a plurality of grid-controlled electron tubes partially extending through a wall of said housing each of said tubes having respective grid and plate lead-ins with the plate lead-in of one tube and the grid lead-in of the next tube disposed on the same side of said partition and with the control grid lead-in of the first tube and the plate lead-in of the next tube disposed on the opposite side of said partition, said partition extending in overlapping electrostatic relation between the grid and plate prongs of each tube, and a half wavelength transmission line serving as the signal coupling means between the plate of the first tube and the grid of the second tube, one conductor of said line being constituted of said partition and the other conductor of said line being constituted of a pair of elongated linear metal strips separated by a dielectric to form an electrostatic condenser extending along the major part of the line length.

2,639,336

REEL DRIVING AND CONTROL MECHANISM

James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application February 26, 1947, Serial No. 731,121
17 Claims. (Cl. 191—12.2)



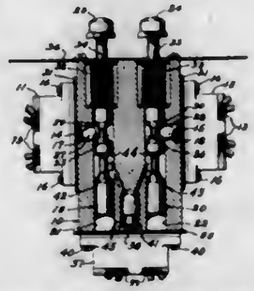
1. A control system for a motor operating a vehicle-supported reel for a cable supplying electrical energy from an extraneous source to the vehicle, comprising a device operable to alter the torque of the cable reel motor and means for automatically controlling said torque altering device including a device responsive to vehicle motion along its path of travel and another and different device responsive to reel rotation, said device responsive to vehicle motion along its path of travel having positions for effecting high and low torque respectively and moved to its position for effecting high torque upon travel of said vehicle in either direction at any point in its path, and said device responsive to reel rotation controlling the effecting of high torque by said device responsive to vehicle motion and moved, upon reel rotation in an unwinding direction, to prevent such effecting.

2,639,337

TWO-SPEED REVERSIBLE CONTROLLER

Herbert J. Framhein, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut

Application January 3, 1951, Serial No. 204,165
14 Claims. (Cl. 200—5)



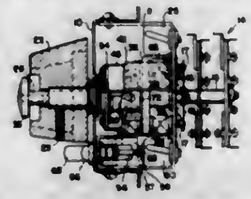
1. In a controller of the class described, a pair of switches, a pair of operating members, means whereby movement of each of said operating members operates one of said pair of switches independently of the other, means for resisting said movement of said operating members, a common secondary switch, means whereby the continued movement of each of said operating members after operation of one of said pair of switches operates said common secondary switch sequentially, and additional means for resisting movement of said operating members during said continued movement whereby the operator may sense the condition of the controller through said operating members.

2,639,338

SELECTOR SWITCH

George A. Kwasniewski, Moundview Township, Ramsey County, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application June 5, 1951, Serial No. 230,055
9 Claims. (Cl. 200—5)



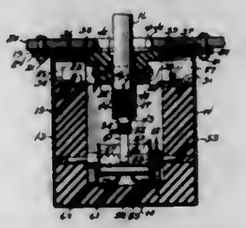
5. An electric switching mechanism comprising, a frame, a member pivotally mounted in said frame, means on said frame preventing axial movement of said member, a tap switch carried by said frame and actuatable between a plurality of operative positions on a rotation of said member, a rod slidable axially within a tubular portion of said member, a sleeve slidable axially on an external surface of said member, means extending radially through a lateral opening in said member and interconnecting said rod and said sleeve to cause the axial position of said sleeve to correspond to the axial position of said rod, a second switch carried by said frame and having an actuator movable between two operative positions by said sleeve on axial movement thereof, a pair of cooperating cam surfaces carried by said frame and said sleeve causing said sleeve to assume a predetermined axial position when said member is moved to a predetermined angular position, and a knob on said rod for manually positioning said sleeve.

2,639,339

COMBINATION DIMMER AND DIRECTION SWITCH

Paul L. Franck, Washington, D. C.

Application April 13, 1951, Serial No. 220,791
3 Claims. (Cl. 200—14)



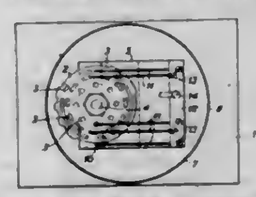
1. A combination motor vehicle dimmer and direction signal switch comprising a switch casing, a block of insulating material U-shape is cross section positioned in the casing, a carrier slidably mounted for lateral travel on one end of the casing, contacts positioned on the sides of the carrier, a button slidably mounted in the carrier and positioned to extend into an open area in the block of insulating material, a ratchet wheel having a series of contacts thereon journaled in the said block of insulating material and positioned perpendicular to the axis of said button, means actuating the ratchet wheel by the button as the button is pressed inwardly, contacts positioned to be engaged by the said series of contacts of the ratchet wheel for making and breaking circuits, and contacts mounted on the said block of insulating material and positioned to be engaged by the contacts of the carrier upon lateral movement of the carrier.

2,639,340

CAM DEVICE FOR CONTROLLING ELECTRIC CIRCUITS

Harold Dodimead Gaite, Taplow, England, assignor to British Telecommunications Research Limited, Taplow, England, a British company

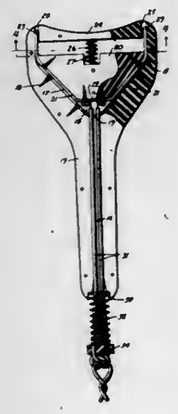
Application August 29, 1951, Serial No. 244,193
In Great Britain September 6, 1950
5 Claims. (Cl. 200—46)



1. An electrical switching device comprising a shaft, means for rotating said shaft, a thin metallic disc secured to said shaft with its plane normal thereto so as to be rotated therewith and provided with a plurality of rows of perforations at different radii, a plurality of contact members located in a plane parallel to the plane of said disc and spaced apart so as to register with said rows of perforations respectively, an insulating

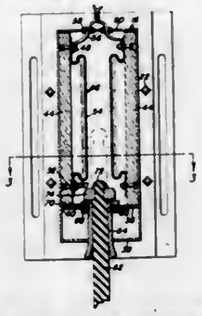
support for said disc located on the side thereof remote from said contact members, and metallic inserts in said support at radii corresponding to the contact-making ends of said contact members whereby as said disc is rotated said contact members make intermittent contact with said inserts.

2,639,341
SAFETY BATTERY CONNECTOR SWITCH
George G. Truax, Renton, Pa.
Application April 27, 1948, Serial No. 23,501
3 Claims. (Cl. 200—51)



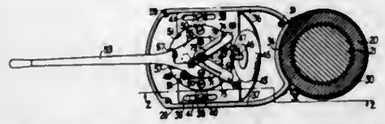
1. An electrical connector comprising a hollow casing of electrically insulating material including a handle portion and a receptacle portion, said receptacle portion having a generally triangular interior with an apex at the adjacent end of said handle portion and an elongated opening therein adjacent said handle portion, a V-shaped strap of electrically conductive material secured to the interior wall of said receptacle portion and having an opening in the apex portion thereof, a triangular block of electrically insulating material in said receptacle portion slidable toward and away from said V-shaped strap, a pair of straps secured to said block, one on each divergent side thereof, and each providing a contact point extending outwardly of the side of said block remote from said handle portion, an end wall extending across the open end of and spaced at its ends from the side walls of said receptacle portion to provide respective passageways for said contact points, a compression spring between said end wall and said block resiliently urging said block inwardly of said casing until said contact points are retracted into said casing and said block-carried straps are in electrical contact with said V-shaped strap, a thumb button secured to said block and extending through the elongated opening in said casing for moving said block to separate said block-carried straps from said V-shaped strap and project said contact points out of said casing, and a pair of electrical conductors extending through said handle portion and the opening in said V-shaped strap and electrically connected one to each of said block-carried straps.

2,639,342
LOW TIRE INDICATOR
Archie C. Cope, Ashland, Ky.
Application November 14, 1950, Serial No. 195,671
2 Claims. (Cl. 200—58)



1. An indicating device comprising a housing including a vertically extending back plate, a hollow member detachably secured to said back plate, said back plate having spaced slots adjacent opposite edges thereof whereby the housing may be adjustably secured to the axle of a wheel, a pair of contacts disposed in vertically disposed, parallel spaced relation within said housing, a resilient plunger vertically disposed and reciprocably mounted in said housing with a lower end portion adapted to engage the surface supporting the wheel upon a predetermined decrease in the pressure within the tire on the wheel, the upper end of said plunger being adapted to be vertically displaced to a position between said contacts, and means on said plunger providing an electrical connection when disposed between said contacts, said plunger being formed of a rubber-like material, said means including a conductor ring disposed around the upper end of said plunger.

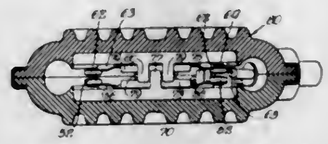
2,639,343
TURN SIGNAL
Robert P. Donley, Columbus, Ohio, assignor to Columbus Metal Products, Inc., Columbus, Ohio, a corporation of Ohio
Application July 7, 1951, Serial No. 235,645
4 Claims. (Cl. 200—59)



1. In a vehicle direction signal, a support; a wheel on the support adapted to frictionally engage and be rotated by the rotating steering mechanism of a vehicle; an actuator mounted on the wheel and rotatable therewith; a switch carried by the support; an oscillating shaft connected with the switch for actuating the switch, said switch having an "off" position and two "on" positions, said shaft being movable in one direction for moving the switch from the "off" position to one of the "on" positions and movable in the opposite direction for moving the switch from the "off" position to the other "on" position; means yieldingly tending to retain the shaft in any of the three positions in which it is placed; a hand operated lever for moving the shaft to any

of said positions; two levers actuated by the hand operated lever; stops on the hand operated lever for limiting the movement of the two levers; spring means yieldingly urging the levers against said stop, one only of said two levers being movable by the hand operated lever into the path of movement of the actuator on the wheel when the hand operated lever is moved to one of the "on" positions and the other only of said two levers being movable by the hand operated lever into the path of movement of the said actuator when the hand operated lever is moved to the other of the "on" positions.

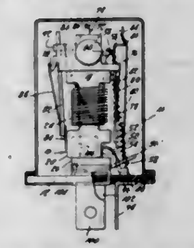
2,639,344
ELECTRIC SWITCH
Ernst W. Rickmeyer, Palatine, Ill.
Application August 16, 1949, Serial No. 110,609
12 Claims. (Cl. 200—86)



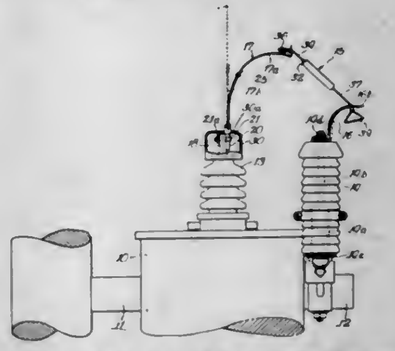
1. An electric switch comprising a pair of discoidal shape, contact-carrying members disposed normally in generally coaxial parallel relation, guiding and retaining means connecting said members for relative movement toward and away from each other in a direction along their common axis and for universal relative rocking movement between a first limit position in which said members are substantially parallel and at a maximum distance apart and a second limit position in which said members are at a minimum distance apart at least at one peripheral portion, spring means urging said members toward said first limit position, and contact elements insulatingly carried by said members respectively, outwardly of their centers, positioned for mutual abutment when said members are in one of said limit positions and separation when said members are in the other of said limit positions, and a generally discoidal shape casing of flexible, resilient insulating material surrounding and enclosing said contact-carrying members and the contact elements carried thereby, said casing having normally parallel, generally flat opposite portions closely fitting respective ones of said contact-carrying members and interengaging peripheral portions surrounding the periphery of said members, said casing being adapted to be flexed and compressed by pressure upon any peripheral portion thereof for moving the corresponding peripheral portions of said contact-carrying members relatively together, and being adapted to return to its normal condition upon release of said pressure, said casing being imperforate except for a portion having an opening adapted to receive conductors leading into said casing.

2,639,345
ELECTRIC CONTROL DEVICE
Philip Sitzer, Irvington, N. J., assignor to Tung-Sol Electric Inc., Newark, N. J., a corporation of Delaware
Application May 18, 1949, Serial No. 93,909
4 Claims. (Cl. 200—88)

1. An electric circuit control device having an electromagnet and an armature, comprising an electromagnetic core having a recess at one end with one edge substantially parallel to the armature when in attracted position, a Z-shaped spring having one leg disposed parallel to said edge and secured thereto and its opposite and parallel leg secured flush to one end of said armature, the middle leg of said spring forming an angle of less than 90° with each of the other legs, the depth of said recess and the length of the middle leg of said spring being correlated to bring the supported end of said armature close to the core above the recess therein.



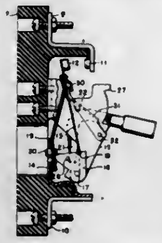
2,639,346
TRANSFORMER PROTECTIVE APPARATUS
Edward H. Yonkers, Glencoe, Ill., assignor to Joslyn Mfg. & Supply Co., Chicago, Ill., a corporation of Illinois
Original application September 25, 1948, Serial No. 51,236, now Patent No. 2,572,901, dated October 30, 1951. Divided and this application September 20, 1951, Serial No. 247,442
4 Claims. (Cl. 200—115)



1. Protective apparatus for a transformer provided with a terminal conductor extending upward from the transformer tank, comprising an elongated lightning arrestor supported at one side of said tank in a substantially vertical position and provided with a terminal conductor at its upper end, a conductive bracket mounted upon one of said terminal conductors, and a spring arm mounted upon and extending upwardly from the other of said terminal conductors, said bracket and arm being provided with means at the extended ends thereof for mechanically holding the opposed terminal conductors of a fuse link and said arm being deformable toward said bracket to permit connection of the terminal conductors of the link to said holding means and to bias the link for arc elongation in response to rupture of the fusible element of the link, said bracket and arm being so supported and ar-

ranged that the inner portions of the holding means thereof form a pair of acute angles with respect to the tensioned fuse link.

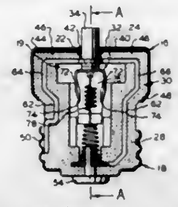
2,639,347
ELECTRIC CIRCUIT BREAKER
Raymond N. Rowe, Plainville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application December 4, 1948, Serial No. 63,578
9 Claims. (Cl. 200—116)



5. A circuit breaker comprising a stationary contact, a pivotally mounted trip member, a switch member having a contact at one end movable to a closed position into engagement with said stationary contact and having its other end pivotally mounted on said trip member on one side of the pivot of said trip member, a bimetal latch arm having one end secured to said switch member and its other end engaging said trip member on the opposite side of said pivot, a spring connected at one end to said switch member for applying an endwise force pressing said switch member against said trip member, means for moving the other end of said spring to move the direction of its force from one side to the other of the pivot of said trip member thereby to move said switch member and said trip member as a unit about the pivot of said trip member between closed and open circuit positions, a guide arm having a pivot on the side of said spring force direction opposite said switch member when said switch member is in said closed circuit position, a connection between the movable end of said guide arm and said switch member for mounting said switch member on said guide arm upon endwise movement of said switch member, and connections for heating said bimetal arm in response to the current through said contacts so as to cause said bimetal arm to disengage said trip member upon the occurrence of a predetermined high current whereupon said trip member turns on its pivot and said switch member moves endwise into mounting engagement with said guide arm for movement by said spring about the pivot of said guide arm to an open circuit position.

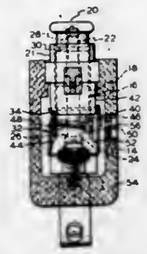
2,639,348
CIRCUIT BREAKER WITH SPARK SEALING CASING CONSTRUCTION
Richard C. Ingwersen, Jackson, Mich., assignor to Mechanical Products, Inc., Jackson, Mich., a corporation of Michigan
Application July 1, 1950, Serial No. 171,596
5 Claims. (Cl. 200—116)

1. In an electric circuit breaker, casing structure, said casing structure being constituted by two similar molded sections of insulating material defining a split between them which extends diametrically across annular end walls defined by the assembled sections and continuously along a cylindrical body also defined by said assembled sections, one end portion of said cylindrical body having external screw threads, said assembled sections defining a single interior compartment with its opposite ends in communication with restricted openings defined by the central openings in said annular end walls, circuit breaker mechanism mounted within said casing compartment and including an actuator plunger, said plunger extending slidably through one said restricted opening and carrying a sealing washer for fluid sealing engagement with the interior end wall



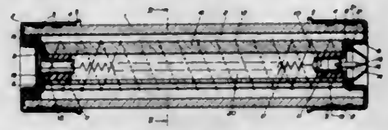
surface portion defining said restricted opening, a pair of end cups, one said end cup being press-fitted over the end portion of the casing through which the said actuator plunger extends and the other end cup having a screw-threaded skirt engaged with said screw-threaded body portion, said first mentioned end cup having an annular end flange extending over and covering the diametrical split in the corresponding casing end wall, and an annular fluid sealing washer clamped between said annular end flange and said casing end wall.

2,639,349
THERMAL LATCH CIRCUIT BREAKER WITH SCREW ADJUSTMENT FOR LATCHES
Richard C. Ingwersen, Jackson, Mich., assignor to Mechanical Products, Inc., Jackson, Mich., a corporation of Michigan
Application February 7, 1952, Serial No. 270,335
7 Claims. (Cl. 200—116)



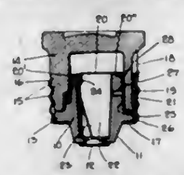
1. In an electric switch having overload protection, casing structure presenting a side wall with an opening therethrough, an actuator plunger reciprocably mounted in said casing and carrying a thermal latch element, said casing structure including fixed abutment structure for engagement by said thermal latch element to hold the element in latched position, and a screw member on said actuator plunger and engageable with said thermal latch element to adjust the position thereof with respect to said abutment structure, said casing opening being so positioned that the said screw member is accessible for adjustment when the said thermal latch element is latched against said abutment structure.

2,639,350
ELECTRIC FUSE
John Edward Cox, Westlands, Newcastle, England
Application July 30, 1951, Serial No. 239,289
In Great Britain August 11, 1950
13 Claims. (Cl. 200—120)



1. An electrical fuse comprising in combination, a tubular casing of insulating material, a metallic terminal cap closing said casing at each end, said cap having a cylindrical portion telescoping a portion of said casing and providing an intervening annular space, one of said telescoping portions having an annular groove formed in its surface bounding said space, and a yieldable sealing ring compressed between the inner wall of each of said end caps and the outer wall of said casing and retained in said annular groove, and a fusible conductor enclosed in said casing and extending between said end caps, said sealing rings being engaged and deformed under compression by forcing said terminal caps over the body of said casing at both ends, each sealing ring being of sufficient volume to fill completely the annular groove in which it is mounted and to fill a substantial part of said annular space.

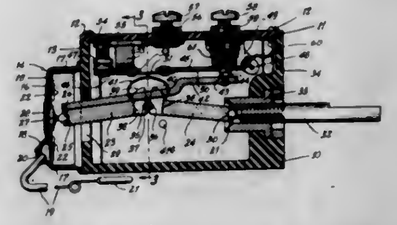
2,639,351
REUSEABLE PLUG FUSE
Otto C. Larson, Sr., Brooklyn, N. Y.
Application May 17, 1951, Serial No. 226,786
5 Claims. (Cl. 200—130)



1. A fuse of the class described, comprising two detachably coupled body parts of insulating material arranged one upon the other, one of said parts having a terminal at the outer end thereof, a threaded sleeve forming the other terminal, said sleeve being in engagement with the other of said parts and engaging the first part to form an assemblage of said parts, spaced spring contacts within said parts, one contact being in circuit with said end terminal, the other contact being in circuit with said sleeve terminal, a fuse element detachable with and bridging and electrically connecting said spring contacts, and means movable on and keyed to one of said parts to render the fuse element accessible for replacement.

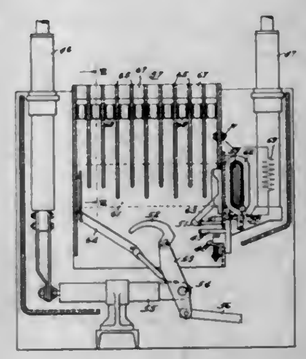
2,639,352
THERMOSTATIC SWITCHING DEVICE
Robert A. Watson, St. Louis, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri
Application March 2, 1951, Serial No. 213,507
8 Claims. (Cl. 200—140)

1. In a thermostatic switching device, a temperature responsive actuator having a definite path of motion in response to temperature change, a pair of links lying end to end in general alignment with said path of motion and being pivotally connected to each other at their adjacent ends, one of said links being pivotally



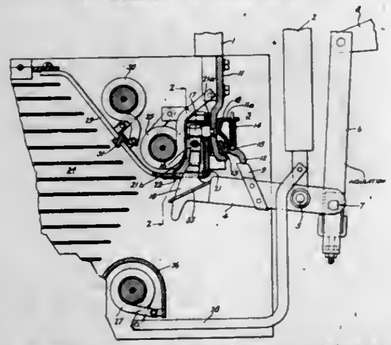
connected at its other end to said actuator, and the other of said links being pivoted at its other end on a fixed pivot, a stationary switch contact and a cooperating movable switch contact arranged to be moved by one of said links as it is rotated due to movement of said actuator.

2,639,353
CIRCUIT BREAKER WITH ARC CHUTE SHORT CIRCUITING SECTIONS OF THE ARC
Gustav E. Jansson, North Quincy, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application January 24, 1950, Serial No. 140,337
10 Claims. (Cl. 200—147)



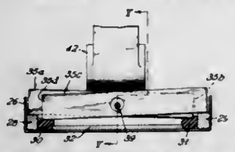
10. An electric circuit interrupter comprising means for drawing an arc and an arc chute for receiving the arc at one end thereof and exhausting the arc products at the other end, said chute comprising a pair of relatively closely spaced side walls, a pair of relatively widely spaced end plates extending between said side walls and a plurality of spaced partitions of insulating material disposed between said end plates and extending from one of said side walls to the other transversely of the arc to define a plurality of passages, and metallic inserts forming tubes mounted within and closely fitting against adjacent partitions and said side walls for limiting arc elongation, said tubes being of substantially less length than said partitions and disposed intermediate the ends thereof.

2,639,354
ELECTRIC CIRCUIT BREAKER
Edward J. Frank, Springfield, and Virgel E. Phillips, Philadelphia, Pa., assignors to General Electric Company, a corporation of New York
Application October 7, 1950, Serial No. 189,026
8 Claims. (Cl. 200—147)



1. An electric circuit breaker comprising a pair of relatively movable current-carrying contacts, a pair of relatively movable arcing contacts, arc runner means disposed in the region intermediate said pairs of contacts, an opening in said arc runner through which a movable one of said arcing contacts is movable, and means for urging the arc drawn between said arcing contacts in a direction away from said current-carrying contacts.

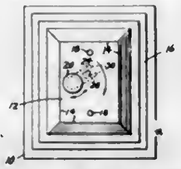
2,639,355
ELECTRICAL CONTACT
Thomas J. Dunsheath, Chicago, Ill., assignor to Magnaflux Corporation, Chicago, Ill., a corporation of Delaware
Application May 25, 1951, Serial No. 228,318
7 Claims. (Cl. 200—166)



2. An electrical contact comprising a support, a pair of electrically conductive contact elements in spaced parallel relationship along said support, a pair of resiliently deformable members in spaced parallel relation along said support, a plurality of elongated conducting elements, said conducting elements being arranged with an end portion of one of said conducting elements supported on one of said contact elements, and the other end of said conducting elements being supported on one of said resiliently deformable members, and the next adjacent conducting element having one end portion supported on the other of said contact elements, and its other end portion supported on the other of said resiliently deformable members.

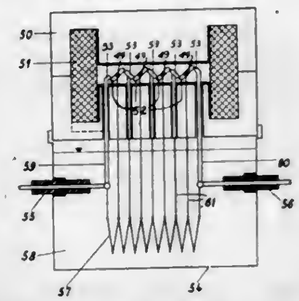
2,639,356
COVER PLATE AND TOGGLE SWITCH ACTUATOR
Kenneth E. Savage, Fitchburg, Mass.
Application August 7, 1951, Serial No. 240,619
1 Claim. (Cl. 200—172)

A switch cover plate for toggle type electric switches comprising a raised plate portion, an eccentrically positioned pin rotatable in the plate in the raised portion on an axis normal thereto, a knob at the exposed side of the plate and a yoke at the opposite side thereof, the knob and yoke being secured to the pin, the yoke being located wholly within the raised plate portion for disposition in spaced relation to a wall or other



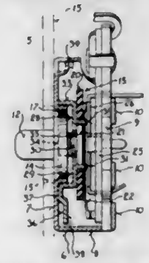
support on which the toggle switch is mounted, and a depressed continuous skirt integral with the raised portion and adapted to contact the wall surrounding the switch to protect the wall, the yoke being rigid and non-resilient and the arms thereof embracing the toggle switch handle.

2,639,357
CURRENT LIMITING APPARATUS
Fritz Kesselring, Zollikon, Zurich, Switzerland
Original application August 1, 1946, Serial No. 687,625, now Patent No. 2,619,563, dated November 25, 1952. Divided and this application December 5, 1951, Serial No. 259,993. In Switzerland August 7, 1945
6 Claims. (Cl. 201—48)



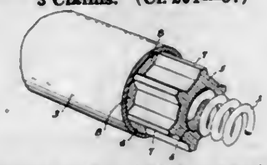
1. Current limiting apparatus for direct-current or alternating-current power circuits, comprising terminals for connection in a circuit whose current is to be limited, a magnetic circuit having a magnet with a coil and having at least one armature disposed in the field of said magnet and movable between two given positions, spring means connected with said armature and having at said armature a force opposed to and normally stronger than that of said field so as to normally hold said armature in one of said positions so that said magnet field is effective to move said armature to said other position only when said current has an excess value, stationary contact means engaging said armature in said one position and being connected through said armature and in series with said coil across said terminals, said armature having in the direction of said field a maximum length of one centimeter and having a maximum travel between said positions of one millimeter and a maximum travel period of 10^{-4} seconds, impedance means connected between said stationary contact means across said armature, said magnetic circuit having a time constant below 10^{-4} seconds so that the armature-moving variation of excitation of said magnetic circuit takes place at the latest a few 10^{-5} seconds after the initiation of the building-up of said excess current value, whereby contact separation occurs at most 10^{-4} seconds after said initiation and at least half said travel is traversed before the restriking potential corresponding to the voltage drop at said impedance means attains its first maximum value.

2,639,358
SHAFTLESS ELECTRICAL CONTROL INSTRUMENTALITY
Wilbert H. Budd and Arthur M. Daily, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application November 30, 1951, Serial No. 259,272
9 Claims. (Cl. 201—55)



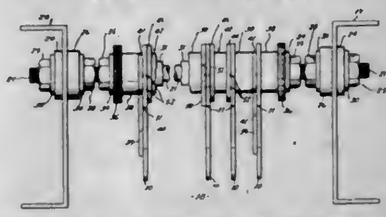
1. In an electrical control instrumentality of the character described: a housing having a front wall provided with a central access hole; stationary means in the housing remote from the front wall thereof; a rotor assembly in the housing comprising a rotatable rotor supporting part having a wall portion adjacent to the front of the housing and extending at least partway across said access hole, and an element carried by the rotor supporting part and rotatable therewith, said element cooperating with the stationary means in the housing; and radially overlapping flange means on the front wall of the housing and said wall portion of the rotor supporting part having cooperating contiguous substantially cylindrically shaped bearing surfaces thereon to mount the rotor assembly on the housing for rotation about an axis normal to the front wall of the housing.

2,639,359
ELECTRIC HEATER
Irving G. Glenn, New York, N. Y.
Original application May 31, 1949, Serial No. 96,185, now Patent No. 2,577,080, dated December 4, 1951. Divided and this application September 25, 1951, Serial No. 248,197
3 Claims. (Cl. 201—67)



1. A flexible electric heater comprising a suitable heating element, a tubular liner of frangible insulating material, preformed externally ribbed of maximum proportions and dimensions attained by the liner, for temporary use of the same in assembling and positioning the elements of the heater and adapted to be thereafter crushed and compacted about the heating element, the said liner as preformed being in a continuous one piece length equaling at least the length of the body of the heating element, the heating element being entered, centered and supported throughout its length in the enclosing bore of the liner by snugly fitting the same, an outer tubular jacket in the bore of which the heating element and liner assembly is entered filling the greater portion of the same, the aforesaid assembly being temporarily centered therein by the ribs of the liner closely and comparatively broadly contacting a substantial area of the wall of the jacket bore and a compacted filling of granular insulating material in the unoccupied space within the jacket, the aforesaid assembly when completed being flexible and permitting cold bending of the heater unit on any radius without displacing the centered heating element.

2,639,360
ELECTRIC RESISTANCE UNIT
Richard G. Widdows, Shaker Heights, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 2, 1951, Serial No. 234,745
10 Claims. (Cl. 201—69)



1. An electric resistance unit of the type in which a plurality of resistance elements, each having an opening at one end portion, are arranged in a row in flat-wise spaced relation to each other with the openings aligned and are supported at said end portions by a bolt passing through said openings, metal spacing elements having portions received on the bolt, said resistance and spacing elements, at the portions adjacent said bolt, being arranged in groups each of which includes at least two resistance elements and one spacing element, each of the elements of each group being in electrical conductive relation to those next adjacent to it at a contact area at its said portions, the said portion of at least one of said spacing elements of each group being interposed between a pair of the resistance elements of its associated group and in electrical conductive relation thereto to provide a conductive path therebetween, insulating collars on the bolt interposed between the groups, certain elements of the group having exposed areas facing away from each other, each of said exposed areas being exposed endwise of the row, spaced radially outwardly of the bolt, and spaced endwise of the row from any next adjacent surface of the unit exposed toward it endwise of the row, said contact area of each element facing endwise of the row and being inwardly of the group endwise of the row from said exposed areas of its associated group, and said spacing of said exposed areas radially of the bolt and said spacing of said exposed areas endwise of the row being sufficient,

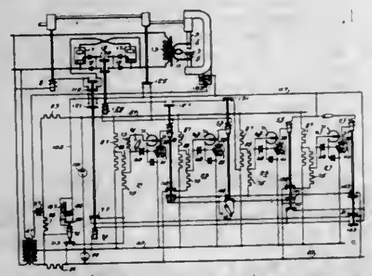
respectively, so that a pair of said exposed areas can be engaged concurrently with the respective jaws of a spot welder, whereby the contact areas between said pair of exposed areas can be spot-welded together simultaneously.

2,639,361

TIMER FOR WELDING SYSTEMS

Edward C. Hartwig, Tonawanda, and Robert F. Barrell, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 2, 1948, Serial No. 18,684
21 Claims. (Cl. 219—4)



1. Apparatus for controlling a welding system having welding electrodes, a starter for actuating said electrodes to close, and a contactor for controlling the current flow through said electrodes; comprising in combination a Squeeze timer coupled to said starter for causing said contactor to transmit current through said electrodes a predetermined time interval after actuation of said starter; a Weld timer for timing the duration of said current; a Hold timer for timing the interval during which said electrodes are in engagement; and connections for initiating the timing operation of said Weld and Hold timers substantially simultaneously.

2,639,362

ARTICLE FOR WELDING STAINLESS STEEL

Prentiss S. Viles, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Original application October 23, 1950, Serial No. 191,725. Divided and this application September 10, 1951, Serial No. 245,977
3 Claims. (Cl. 219—8)

1. An article suitable for use in welding a ferrous alloy comprising nickel, chromium and iron which comprises a welding rod of nickel, chromium and iron, having a coating of a welding flux in an amount in the range between 99.75% and 75% by weight and elementary sulfur in an amount in the range between 0.25% and 25% by weight, the weight ratio of said coat to said rod being in the range between about 1:2 to 1:4.

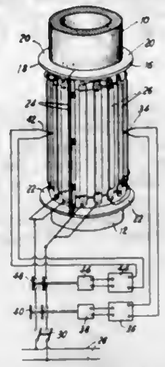
2,639,363

WELDED JOINT OF DISSIMILAR METALS

Paul M. Brister, Madison, N. J., and Lambert F. Kooistra, Akron, Ohio, assignors to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application June 15, 1950, Serial No. 168,306
9 Claims. (Cl. 219—11)

4. In combination, a welded joint formed by and between dissimilar metal tubular conduit members having different thermal coefficients of expansion, and means for uniformly heating said welded joint comprising electrical resistance heating elements uniformly spaced apart circumferentially completely around said tubular conduit members and arranged to radiantly heat the



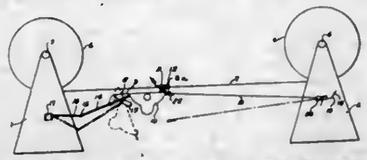
portions of said tubular conduit members adjoining said weld, and means for connecting the alternate heating elements around the entire circumference of the joint in a first electric circuit and the heating elements intermediate such alternate heating elements in a second electric circuit in parallel with said first electric circuit.

2,639,364

HEATING-CONTROL APPLIANCE

Charles C. Doyle, Willoughby, Ohio

Application July 14, 1949, Serial No. 104,720
11 Claims. (Cl. 219—19)



1. An electric heating-control appliance comprising the combination of a frame, an electrically driven conveyor mounted for movement on said frame, an electric heater movably mounted on said frame for adjustable location relative to said conveyor, a brake-equipped electric motor arranged to actuate said heater mounting and a pair of automatically operative contactor means in an auxiliary electrical circuit together with said motor for alternately energizing it and its brake whereby automatically to shift the location of said heater.

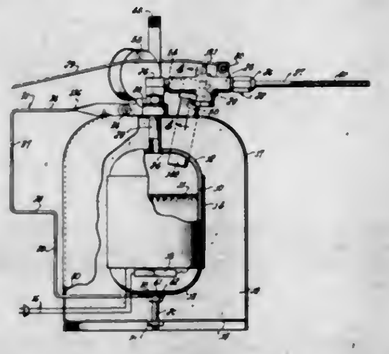
2,639,365

PORTABLE STEAM CLEANER

Paul T. Krampe, Sherman Oaks, and Jay J. Hanzlik, Los Angeles, Calif.; said Hanzlik assignor to said Krampe

Application June 8, 1951, Serial No. 230,458
7 Claims. (Cl. 219—38)

1. A portable steam cleaner comprising a boiler for containing a supply of water, a heating element carried by the boiler for converting said water to steam, a discharge nozzle carried by the boiler in communication with an upper portion thereof and acting to discharge steam in a forward direction from the boiler, valve means for controlling the discharge of steam from said nozzle, a handle projecting from said boiler to be gripped by an operator's hand for supporting the



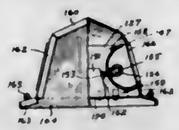
boiler, and a rearwardly extending manually depressible operating lever means for said valve means terminating superjacent and operable by the hand gripping said handle.

2,639,366

AIRPORT RUNWAY MARKER LIGHT

Harold A. Cline, Dayton, Ohio, assignor to Emarco Corporation, Dayton, Ohio, a corporation of Illinois

Original application May 23, 1946, Serial No. 671,696. Divided and this application November 5, 1948, Serial No. 58,420
2 Claims. (Cl. 240—1.2)



1. A light source of the type adapted to mark the end of a runway and comprising a base, an elongated supporting member mounted on said base and having inclined opposite side faces, two elongated gaseous discharge tubes, each of said tubes being mounted on a corresponding one of said side faces of said supporting member in parallel relation to said corresponding side face, and to said base, reflectors mounted between said tubes and said supporting member for directing light from said tubes in opposite directions and away from each other, each of said reflectors comprising an elongated cup-shaped member having a closed side and an open side and being mounted between a respective one of said tubes and said corresponding face of said supporting member with said open side disposed in parallel relation to said last mentioned face of said supporting member, and a housing mounted on said base and enclosing said tubes and said reflectors, said housing having two windows therein and a top wall separating said windows, each of said windows being disposed adjacent to the said open side of one of said reflectors in parallel relation to said open side on the side of said reflector opposite to that at which said corresponding face of said supporting member is disposed.

2,639,367

MANUALLY ROTATABLE AND TILTABLE HEADLAMP

Angel Felipe Chiuzzi, Saavedra, Argentina

Application February 15, 1950, Serial No. 144,211
In Argentina April 4, 1949
1 Claim. (Cl. 240—61.6)



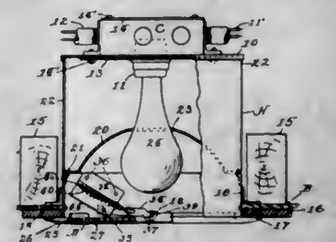
A dirigible head-lamp structure for vehicles, comprising, in combination, a pair of inner and outer concentric rings, said rings of each pair arranged within the walls of a head-lamp cavity, a head-lamp casing mounted in each inner ring, horizontal pivot members connecting the inner ring of each pair with the outer ring to tilt said casing vertically up and down, vertical pivot members connecting the outer ring of each pair with the walls of said cavity to provide for horizontal swinging of both rings to move the head-lamp casings from side to side, a lever fixed at one end of each inner ring, an elongated U-shaped bar having the ends of its upwardly extending portions pivotally connected with the free end of each of said levers, an arm extending downwardly from the U-shaped bar, a pin offset from the free end of the arm, an oscillatable shaft having a slotted angularly disposed member for receiving said pin, whereby rotary movement of the shaft will move the bar up and down to tilt both inner rings only in a vertical direction; a tubular sleeve surrounding said shaft, a member rigid with said sleeve and projecting radially therefrom, a U-shaped bracket having upwardly extending slotted arms, a link connecting the free end of said member with said bracket, a post rigidly connected to and depending from each headlamp casing and having a laterally offset pin engaging in related slotted arms of the bracket, whereby movement of the bracket by turning of the sleeve will impart sidewise movement to said posts, and means for selectively and manually turning the shaft and the sleeve.

2,639,368

RECESSED LIGHTING FIXTURE WITH DROP HINGED COVER

Ralph Pryne, Pomona, Calif.

Application May 12, 1949, Serial No. 92,857
1 Claim. (Cl. 240—78)



In a lighting fixture unit adapted to be recessed into a building wall structure, an outer shell, a lamp socket in said shell, a window cover over the lower portion of said shell, snap-acting open-

ing and closing means for said cover comprising a pair of similar, oppositely-disposed, spring-controlled hinge units, each hinge element consisting of a supporting plate positioned on opposite sides of said shell, said plate being formed with a longitudinal shoulder and an integral offset outstanding portion, a spring-operated supporting arm pivotally secured to said plate near one end thereof, said end of the supporting arm being sufficiently spaced from the pivot so that it will strike said longitudinal shoulder and limit the downward inclination of the window cover and hold it by spring action in predetermined open position, the other end of said arm being provided with a lateral pivot, a corresponding socket in said window cover, a retractible helical spring between catches on the supporting plate and supporting arm respectively, the connecting points of the spring to said catches being offset with respect to the pivot point of the arm on said supporting plate, whereby the cover is retained in closed position automatically by spring action.

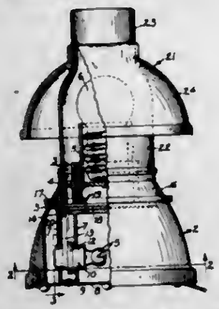
2,639,369

MERCURY SWITCH ACTUATING MECHANISM FOR STAND LAMPS

Earl S. Boynton, East Orange, N. J.

Application November 30, 1948, Serial No. 62,629

4 Claims. (Cl. 240—123)



1. An electric light fixture of the class described, comprising a hollow base, an electric lamp mounted on said base, an electric switch arranged in said base for said lamp and in an electric circuit therewith, a lever-like member oscillatively mounted in said base for actuating said switch, an annular groove arranged in the upper surface of said base, said groove having an opening therein through which said lever-like member extends into said groove, an annular member rotatably arranged in said groove which cooperates with the upper end of said lever-like member to actuate the same whereby said switch is adapted to close when said annular member is rotated in one direction and to open said switch when rotated in the opposite direction.

2,639,370

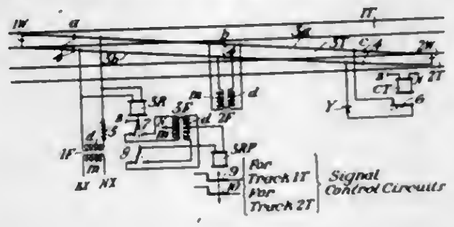
APPARATUS FOR EFFECTING INDICATION AND SIGNAL CONTROL BY TRANSIENT DIRECT CURRENT

Paul N. Martin, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application September 20, 1946, Serial No. 698,354

18 Claims. (Cl. 246—219)

1. In combination, a transformer having a primary winding and a secondary winding, an asymmetric unit, a secondary circuit including said secondary winding and said asymmetric unit, a source of alternating current energy, a direct current code following device, a primary circuit for energizing said primary winding from said source with said code following device connected in multiple with said source, means for interrupting the



current in said secondary circuit for effecting operation of said code following device, and indication means controlled by said code following device.

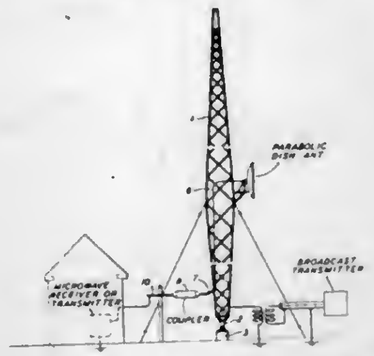
2,639,371

WAVE-GUIDE ISOLATION COUPLING SYSTEM

Wallace C. Babcock, Bayside, and Harry W. Nylund, Great Neck, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 25, 1950, Serial No. 140,434

4 Claims. (Cl. 250—17)



3. In combination, a high voltage radio frequency broadcasting tower, a broadcast transmitter coupled to said tower, insulating means supporting the base of said tower a predetermined height above ground, microwave equipment spaced from said tower, an electrical conductor connecting said microwave equipment to ground, an elevated microwave antenna mounted on said tower, a conductive hollow pipe wave guide extending between said microwave antenna and equipment for the propagation of microwaves therebetween, said wave guide being conductively secured to said tower substantially throughout its length between said base and said microwave antenna, said wave guide having a non-conductive gap therein at a location between said microwave equipment and the base of said tower, and a low-loss dielectric bar extending across said gap to the ends of the wave guide on both sides of said gap to bridge said gap for the transmission of microwaves, the length of said non-conductive gap and the distance of said wave guide above ground between said gap and the tower base both being greater than said predetermined height, whereby flashover from said high voltage tower to ground through said wave guide or said gap is prevented.

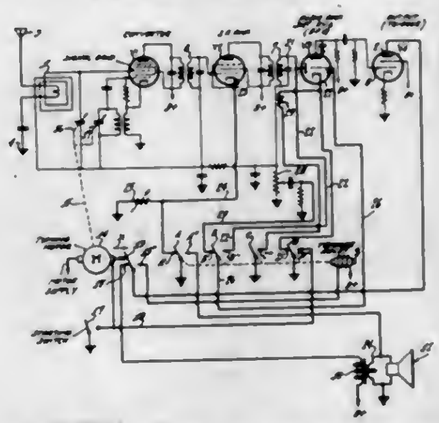
2,639,372

SIGNAL SEEKING TUNER

Oliver E. Colgan, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 5, 1948, Serial No. 25,210

5 Claims. (Cl. 250—20)



1. A radio receiver for receiving signals within the radio frequency spectrum comprising at least one electron tube and tuning means connected in operative relation for selecting and converting received radio signals to corresponding intermediate frequency signals, means including additional electronic tubes for amplifying said intermediate frequency signals, means coupled to the output of said electronic tubes tuned to a predetermined fixed intermediate frequency, an audio frequency amplifier tube and a signal output circuit for said receiver coupled with said last named means, said tuning means including a tuning device having a movable element for scanning said spectrum to select a desired radio signal, a motor for driving said tuning device, means including a switch for energizing said motor, a reactive element selectively connected in circuit with one of said tubes and said motor to establish beat frequency oscillations therein of a fixed frequency substantially equal to said predetermined intermediate frequency only upon operation of said motor, means for beating said beat frequency oscillations with said intermediate frequency signals to produce resultant low beat frequency signals, relay means selectively connected in circuit with said output circuit and said motor only upon operation of said motor, and means responsive to certain of said low beat frequency signals developed only when the frequency of said intermediate frequency signals substantially corresponds to the frequency of said beat frequency oscillations for operating said relay means to deenergize said motor.

2,639,373

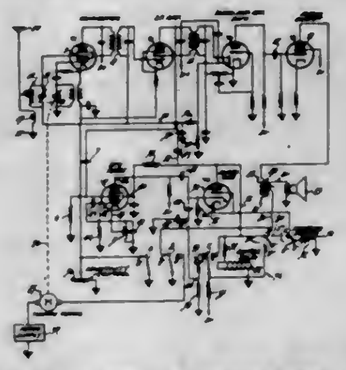
SIGNAL SEEKING RECEIVER

Hunter C. Goodrich, Jr., Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 26, 1948, Serial No. 29,267

8 Claims. (Cl. 250—20)

4. In a signal seeking radio receiver system the combination comprising tuning means for said receiver, scanning means causing said tuning means to scan the tuning frequency spectrum until a station is automatically selected, a starting switch for initiating operation of said scanning means upon actuation thereof from resting position to initial starting position, and control means for causing said tuner to stop on the first received signal of predetermined strength when said starting switch is in either the resting position or the initial starting position, said control means including a control tube having an input circuit actuated in response to signals of predetermined strength, a control relay energized by



said starting switch to initiate said scanning means, and a contact set on said relay to hold the relay in an energized position, said control tube being connected in parallel with said relay to provide a low impedance path for the energizing current of said relay whereby said relay is de-energized in response to actuation of said control tube at either the resting or initial starting position of the starting switch.

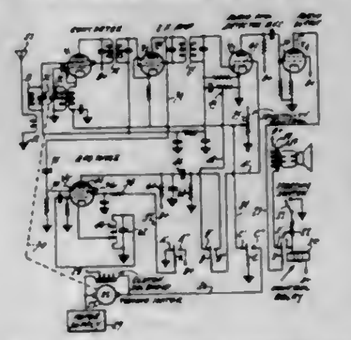
2,639,374

SIGNAL SEEKING RADIO RECEIVER

Hunter C. Goodrich, Jr., Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 30, 1948, Serial No. 36,111

6 Claims. (Cl. 250—20)



1. In a signal-seeking radio receiver apparatus: a heterodyne tuning means connected for selectably receiving incoming modulated radio carrier waves in a predetermined band of frequencies, and converting said carrier waves to a predetermined intermediate frequency signal wave; an amplification stage, a demodulation stage and a signal output stage normally connected to said tuning section for reproducing, at an amplified level, the modulation of the converted signals; a beat frequency mixer stage connected with said amplification stage for beating the converted signals with a wave having a fixed intermediate frequency thereby to provide a beat signal output having a frequency that approaches zero as said

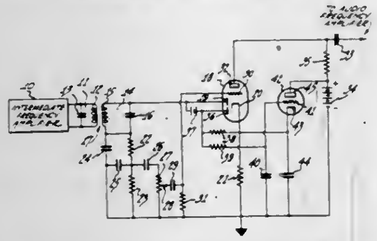
tuning means approaches exact tuning; signal seeking means for causing said tuning means to scan said band of frequencies, contact sets for selectively coupling said mixer stage in circuit with said output stage, and a relay connected with said output stage to respond to said beat waves, actuate said contact sets and terminate the scanning in response to the beat waves reaching a predetermined low frequency.

2,639,375

TUNING AID FOR HIGH FIDELITY RADIO RECEIVING SYSTEMS AND THE LIKE

Benjamin S. Vilkomerson, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1949, Serial No. 90,674
5 Claims. (Cl. 250—20)



1. A tuning aid adapted for use with high fidelity radio receiving systems and the like, comprising a singe tuned signal input circuit responsive to signal-modulated carrier waves covering a relatively wide band of freqencies, an electronic signal-demodulating tube coupled to said signal input circuit and having an output circuit in which to develop said signals, an electronic signal-amplifying tube having an input circuit and a cathode circuit coupled to said output circuit, an electronic carrier wave-rectifying tube having an output circuit, an electronic biasing voltage-developing tube having an input circuit coupled to the output circuit of said rectifying tube and an output circuit in which to develop said biasing voltage coupled to the input circuit of said amplifying tube, and a circuit including a piezoelectric crystal resonant and effective only at a predetermined carrier wave frequency connected between one terminal of said signal input circuit and said rectifying tube to couple said rectifying tube to said signal input circuit.

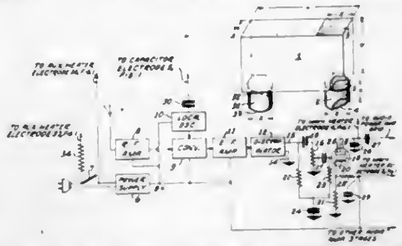
2,639,376

AUTOMATIC FREQUENCY CONTROL

Hugh L. Donley and Eugene O. Keizer, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application February 25, 1950, Serial No. 146,166
7 Claims. (Cl. 250—20)

5. In a tunable receiver adapted to be energized at will and having a predetermined start-up time, a temperature-responsive variable capacitor coupled to said receiver to control the tuning of one stage thereof, controllable means operative in response to energization of said receiver for heating said capacitor to a predetermined operating temperature, said capacitor having a warm-up time, from room temperature to said operating temperature, which exceeds the receiver start-up time, a discriminator in said receiver having its input coupled to said one receiver stage, means responsive to the output of said discriminator for controlling said heating means to vary the temperature of said capacitor



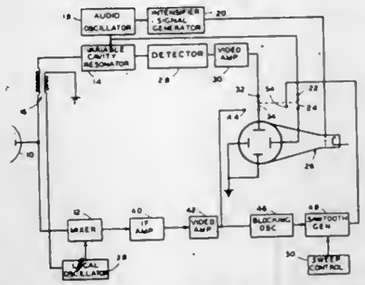
with respect to said operating temperature, and means for maintaining said capacitor substantially at said operating temperature during periods of deenergization of said receiver.

2,639,377

PULSE ANALYZER

Albert M. Stone, Newton, Mass., assignor, by mesne assignments, to United States of America as represented by the Secretary of War

Application April 30, 1946, Serial No. 665,996
3 Claims. (Cl. 250—20)



3. A signal analyzing apparatus for determining the characteristics of input radio signals, comprising a cathode ray tube indicator, a first channel having said radio signals applied to the input thereof for producing upon said indicator a spectrum representation of said input radio signals, a second channel fed by said radio signals including a tunable local oscillator for selecting a single one of said radio signals and separately producing upon said indicator a representation of said single signal; means in said second channel to provide a time base upon said indicator, means for determining the repetition rate and wave shape of said signals, comprising means for varying the time interval represented by said time base, means for applying the output of said local oscillator to the input of said first channel, and means for delineating the signals from either said first or second channels upon said indicator.

2,639,378

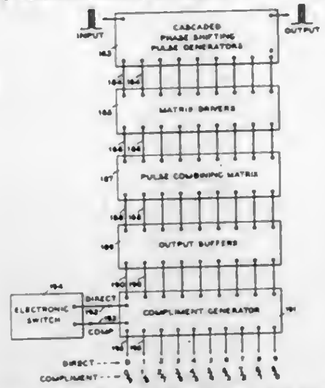
ELECTRONIC PULSE GENERATOR

Nathan A. Moerman, Jackson Heights, N. Y., assignor to Potter Instrument Co. Inc., Great Neck, N. Y., a corporation of New York

Application June 30, 1950, Serial No. 171,303
9 Claims. (Cl. 250—27)

1. In a pulse generating system, the combination of, a plurality of single pulse generators, time

delay means for coupling said pulse generators in cascade to provide a plurality of substantially equally spaced pulses, a resistive network matrix,



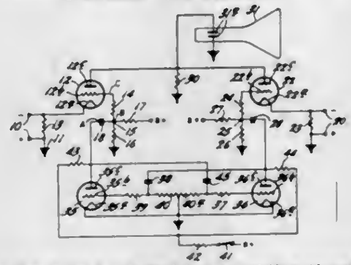
and means for feeding the last said pulses into said matrix for combining said pulses to form predetermined groups of pulses.

2,639,379

ELECTRONIC SWITCHING AND MIXING CIRCUIT FOR PULSATING DIRECT CURRENT

Donald W. Blancher, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 16, 1950, Serial No. 190,429
3 Claims. (Cl. 250—27)



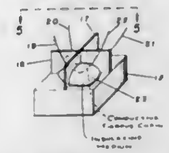
1. Apparatus for switching a unidirectional signal potential comprising: an electronic tube having a cathode, grid and anode; input and output resistors connected in series between said cathode and anode, the juncture of said resistors constituting a reference terminal; means for applying the said unidirectional signal potential across said input resistor, with its negative polarity connected to said cathode; a condenser, and a grid resistor connecting one terminal thereof to said grid; a source of periodically varying potential of substantially square wave form and means connecting it between the other terminal of said condenser and said reference terminal, the variations of potential of said source being of substantially larger order of magnitude than said signal potentials; and resistance means connecting said one terminal of said condenser to said reference terminal, said grid resistor being of lower resistance than said last mentioned resistance means, and both being large relative to said input resistor, and said condenser being sufficiently large relative to said resistance means and the frequency of said source to maintain a substantial charge during each half cycle of said source.

2,639,380

ELECTRICAL DEVICE AND METHOD OF PREPARATION

Hans Erich Hollmann, Oxnard, Calif.

Application May 1, 1952, Serial No. 285,529
18 Claims. (Cl. 250—31)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An electrical device comprising a detector crystal, an insulating medium on the surface of said crystal, an electrode in physical contact with said medium and spaced from said crystal, and fine conductive particles suspended in said medium and electrically oriented therein in the form of at least one fibrous chain between said crystal and said electrode.

2,639,381

HIGH RECEIVING AND LOW SERVICING ANTENNA MOUNTING

Donald Nelson Thompson, Brooklyn, and Walter B. Harris, New York, N. Y.

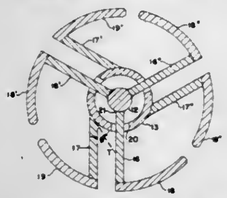
Application March 27, 1950, Serial No. 152,124
4 Claims. (Cl. 250—33)



3. In a two-position antenna mounting designed for a selective high reception position and a low service position, comprising an upward support having a bracket fixed at its upper end portion and having latching means, said bracket having a pulley rotatably mounted at the upper end thereof, a housing fixed to the lower portion of said upright support and supporting a pulley in alinement with said upper pulley, an endless cable rotatably mounted on said pulleys, a boom carrier secured to said cable intermediate said pulleys and having a pivot, an antenna carrier boom mounted on said pivot in a manner to cause an unbalanced moment about said pivot, said boom having latch bars and being thereby adapted to be latched to said bracket to occupy a high reception position, said carrier and boom being vertically movable by said cable to cause said boom to disengage from said bracket, further cable means for moving said boom and antenna from said high latched position to a pre-set un-

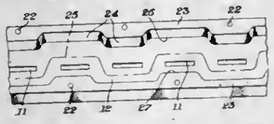
latched position and clear of said bracket, and means for controlling the inherent downward movement of said carrier and boom to said low service position.

2,639,382
ANTENNA
George A. Jarvis, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 30, 1945, Serial No. 613,602
4 Claims. (Cl. 250—33)



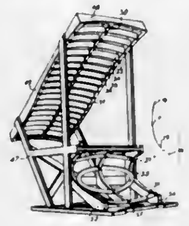
1. An antenna construction, adapted for use with an enclosed transmission line, for high frequency electromagnetic energy, comprising three curved dipoles uniformly spaced about said line, each of said dipoles comprising a pair of spaced dipole sections lying in a plane perpendicular to the longitudinal axis of said line, and means for supporting and exciting each of said dipoles, each of said means comprising a pair of spaced parallel supporting arms having a length substantially equal to a quarter of the wavelength of the exciting energy, and extending outwardly from said line, one of said dipole sections being electrically connected and carried at the outer end of each of said supporting arms, one of each pair of supporting arms being connected to the outer conductor wall of said line at a point adjacent one of three apertures and extending substantially tangentially from said outer conductor, the other of each pair of supporting arms extending substantially radially of said line through the corresponding aperture in said wall and into the region of propagation within said line, the inner end of each of said radially extending supporting arms being electrically coupled to said energy in said line whereby said dipoles are excited by said energy.

2,639,383
MICROWAVE ANTENNA
Harry Gruenberg, Ottawa, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a corporation of Canada
Application March 21, 1951, Serial No. 216,717
7 Claims. (Cl. 250—33.63)



1. A directive antenna for microwaves comprising a waveguide of substantially rectangular cross-section with two opposite narrow faces and two relatively broad faces, the waveguide having formed in a broad face thereof a series of slots substantially resonant for a wave of a given wavelength and of substantially greater length than width, the centres of the slots of the series being spaced along the waveguide at intervals of less than substantially seven-eighths of said wavelength in free space, the longitudinal centre lines of the slots being substantially collinear, the narrow faces of the waveguide being shaped so that the centre line between the narrow faces in the plane of the broad face containing the series of slots is sinuous and lies on opposite sides of adjacent slots, and the distance of substantially every slot from the centre line between the narrow faces being at least substantially the same as said distance for either adjacent slot.

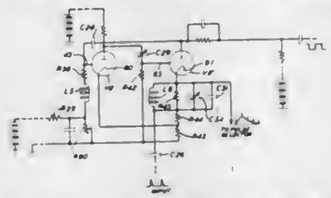
2,639,384
METHOD AND DEVICE FOR FOCUSING OF RADIATIONS BY MEANS OF STATIONARY REFLECTOR AND REFRACTOR GRATINGS
Guerric de Pillot de Coligny, Versailles, France
Application December 2, 1949, Serial No. 130,814
In France December 4, 1948
6 Claims. (Cl. 250—33.65)



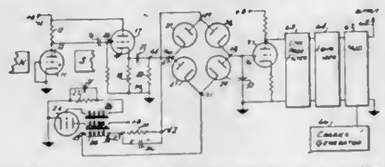
1. A device for projecting a constant angle scanning beam of radiant energy of a given frequency comprising a movable primary driven radiator having a small oscillatory motion along a trajectory and about a center and a fixed focusing arrangement having said trajectory as a linear focus and comprising grating components constituted by a plurality of narrow surface portions each cut within a distinct surface of a family of focusing surfaces of revolution having a common focus located upon said trajectory, a common revolution axis, mutual distances between their vertexes equal to integral multiples of the half-wavelength of the wave radiated by said primary radiator and adapted to give rise to common emergent equiphase wavefronts, said surface portions being cut along the locus of the feet of the perpendiculars let fall from said trajectory center onto the focusing surfaces of the family.

2,639,385
ALTERNATING WAVE GENERATOR
Herbert W. Augustadt, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application September 5, 1947, Serial No. 772,429. Divided and this application December 20, 1948, Serial No. 66,381
7 Claims. (Cl. 250—36)

1. A multivibrator oscillatory circuit comprising two thermionic discharge devices, each of said devices including an anode, a cathode and a control grid electrode, anode-cathode and control grid-cathode circuits therefor, the control grid of one of said devices being connected to the anode of said other device through the capacitive member of a resistance-capacitance time constant circuit, and the control grid of said other device being connected to the anode of said one device through the capacitive member of a serially connected inductance-capacitance circuit so proportioned as to resonate at a fraction of the frequency of operation of said multivibrator oscillatory circuit.



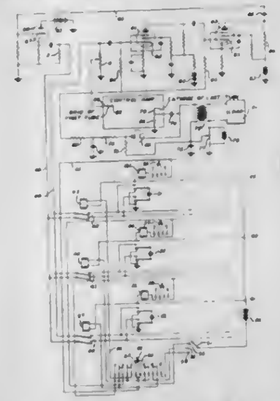
2,639,386
NOISE COMPRESSOR
Mark A. Karpeles, Tarrytown, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application August 30, 1950, Serial No. 182,221
2 Claims. (Cl. 250—36)



1. A noise compressor comprising, a noise generator, a four arm bridge circuit having a unidirectional conducting device in each of said arms, said devices being so poled as respects each other that current is permitted to flow in only one direction between one pair of opposite conjugate terminals, a pulse generator generating a train of pulse signals each of which has a time duration equal to the reciprocal of the maximum frequency of the noise spectrum selected for utilization, the pulse repetition frequency of said train of pulses being equal to the desired output bandwidth, a circuit connecting the output circuit of said pulse generator between said one pair of conjugate terminals whereby said bridge circuit is rendered conductive during the occurrence of said pulses, a condenser connected to one of the remaining pair of conjugate terminals of said bridge circuit, a circuit connecting the output of said noise generator to the remaining terminal of said last mentioned pair of conjugate terminals, and a circuit connected to said condenser deriving from the energy stored therein a noise signal having the requisite narrow frequency spectrum.

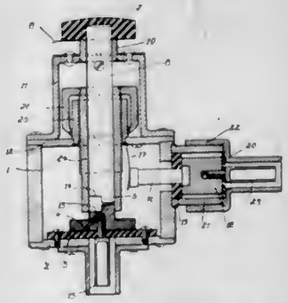
2,639,387
CRYSTAL CONTROLLED OSCILLATOR
James S. Bell, Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1947, Serial No. 788,501
9 Claims. (Cl. 250—36)

3. In an oscillator the combination with an amplifier having input and output circuits, a feedback connection from the output to the input circuit forming with the amplifier a feedback loop for causing the generation of oscillations, a plurality of piezoelectric crystals having different resonant frequencies, a relay for each crystal normally connecting the crystal to ground, and keys for operating the relays selectively to disconnect one of the crystals from ground and connect it serially in the feedback loop to produce oscillations of the resonant frequency of the selected crystal, and a single protective means for all of



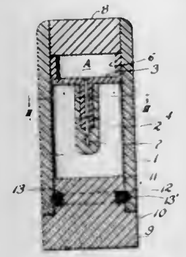
the crystals actuated in accordance with the current through the selected crystal in the feedback loop for controlling the trans-conductance of the amplifier to prevent the application of excess potential or current to the selected crystal.

2,639,388
WIDE-BAND WAVEMETER
Herbert François Mataré, Vaucresson, France, assignor to Societe Anonyme dite: Compagnie des Freins & Signaux Westinghouse, Paris, France
Application November 23, 1949, Serial No. 129,025
In France December 4, 1948
4 Claims. (Cl. 250—39)



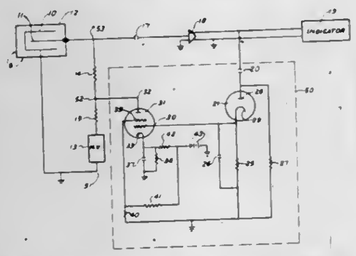
1. A cavity resonator comprising a resonant cavity, a variable capacity in said cavity including a fixed and a rotatable electrode, offset means at the adjacent ends of said electrodes to vary the capacitance therebetween on rotation of the rotatable electrode, a sleeve surrounding and freely slidable on said rotatable electrode and projecting into said cavity and means for moving said sleeve axially to vary the extent of said sleeve projects into the cavity to adjust the effective resonant volume of said cavity and a detector projecting into said cavity through a side thereof and coupled with the field set up by the electrodes in said cavity.

2,639,389
POCKET IONIZATION CHAMBER
Ole G. Landsverk, Mount Healthy, Ohio
Application December 22, 1949, Serial No. 134,385
16 Claims. (Cl. 250—83.3)



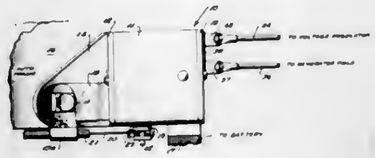
1. A gamma and X-ray responsive pocket chamber comprising a condenser having a hollow cylindrical plate, an insulator disk disposed within and at right angles to the longitudinal axis of the cylindrical plate, said insulator being attached at its peripheral edge to the interior wall of said cylindrical plate, a cylindrical charge collecting electrode plate disposed within said hollow cylindrical plate, the hollow plate and the charge collecting electrode plate being composed of substantially air-wall equivalent material, means extending into one end of said charge-collecting electrode and secured to the central portion of said insulator in coaxial relationship with the longitudinal axis of said hollow plate for securing said charge-collecting electrode to said disk in coaxial relation to said plate, and means for closing the ends of said hollow plate, the insulator disk being of a material that provides a resistance of at least 5×10^{19} ohms between said condenser plates.

2,639,390
RADIATION DETECTING DEVICE
Serge A. Scherbatskoy, Tulsa, Okla.
Application December 15, 1950, Serial No. 200,920
4 Claims. (Cl. 250—83.6)



1. A radiation counter of the type comprising a gas-filled discharge chamber, of the type wherein radiation traversing said discharge chamber is operative to produce voltage pulses, the intensity of said radiation being indicated by the frequency of said pulses, in combination with a D.-C. voltage source for said discharge chamber and control means for said voltage source coupled to said discharge chamber operative to vary the D.-C. voltage output of said voltage source responsively to changes in the magnitude of said pulses.

2,639,391
CIRCUIT BREAKER
Sink J. Stone, Swannanoa, N. C.
Application February 8, 1950, Serial No. 143,006
8 Claims. (Cl. 307—10)



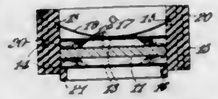
8. Apparatus for controlling an automotive circuit including a battery and a generator having field windings therefor comprising a single-throw double pole switch, said poles being mounted in spaced relation at their ends to an arcuate pivot member, a ground line from said battery passing through one of the poles of said switch, the field windings of the generator connecting thorugh the other pole of said switch, means to normally bias both poles of said switch in circuit-closing position, a cam mounted to cause the poles of said switch to pivot about the said arcuate pivot member to overcome said bias and to simultaneously place the poles of said switch in circuit-opening position, a lever arm connected to said cam, means to operate said lever arm and operating means to rigidly hold said switch in circuit-opening position.

2,639,392
MASKING DEVICE FOR CRYSTALS
Arthur W. Warner, Jr., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1949, Serial No. 136,070
5 Claims. (Cl. 310—8.9)



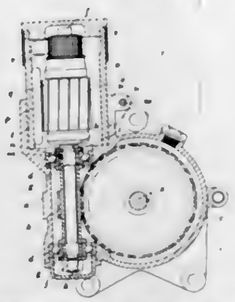
1. A self-aligning mask for use during the coating to frequency of a piezoelectric crystal having spaced supporting leads for connection to coatings of opposite polarity, said leads having portions engaging a common surface of said crystal, said mask comprising a masking plate at least coextensive laterally with said crystal, shoulder portions extending from said plate to space said plate away from said crystal and having an extent normal to said crystal greater than that of said lead portions, and a lip, restricted in extent to prevent engaging more than one of said lead portions simultaneously, projecting from said plate over a portion of the periphery of said crystal adjacent one of said shoulder portions.

2,639,393
MOUNTING AND HOLDER FOR PIEZO-ELECTRIC CRYSTALS
Arthur William Birt, Kings Langley, and Jack Wilson Richardson, Watford, England, assignors to Piezo Crystals Limited, Redhill, Surrey, England, a British company
Application March 3, 1949, Serial No. 79,342
In Great Britain February 26, 1948
2 Claims. (Cl. 310—9.2)



1. A mounting for a plate-like piezo-electric crystal comprising an open rectangular frame made of insulating material, an inwardly directed flange in the opening of said frame, telescoping means extending from said flange to telescope into the opening of a frame similar to said frame, a pair of slots in said frame one in each of two of its inwardly facing surfaces, a single leaf compression spring arranged with its ends abutting said slots, a first contact-plate engaging said spring at a point intermediate the ends of said spring, a crystal-plate, a second contact-plate abutting said flange, said first and second contact plates being of the same size as said crystal plate and having offset tongues, one at each corner, to engage said crystal plate; said spring, first contact-plate, crystal plate and second contact plate being arranged in compression between said slots and said flange.

2,639,394
ELECTRIC MOTOR-DRIVEN WORM GEARING
Cecil James Douglas, Ruislip, England, assignor to C. A. V. Limited, London, England
Application July 30, 1951, Serial No. 239,353
In Great Britain August 23, 1950
3 Claims. (Cl. 310—83)



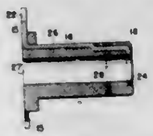
1. An electric motor driven worm gearing comprising, a housing, a worm integral with a hollow cylindrical structure extending axially on both sides of said worm, spaced bearings in the housing rotatably supporting the two ends of said hollow cylindrical structure, an overhung motor armature having a spindle extending from one end thereof adapted to be removably inserted into and supported by said hollow structure, means for detachably securing said spindle against axial movement in said hollow structure, slidable keying means forming a driving connection between said spindle and said hollow structure and enabling axial withdrawal of the spindle therefrom, a hollow cylindrical housing part coaxial with the aforesaid spaced bearings, and a cylindrical motor stator removably supported in said cylindrical housing part whereby the motor stator and armature may be readily withdrawn axially without disturbing the worm structure in its bearings.

2,639,395
CONTROL
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application October 23, 1950, Serial No. 191,520
12 Claims. (Cl. 310—95)



1. A control circuit for dynamoelectric apparatus comprising a grid-controlled vacuum tube controlling excitation of the dynamoelectric apparatus, means providing a first grid signal component responsive to the driven speed of the dynamoelectric apparatus, means providing in parallel with said first grid signal component a second reference grid signal component, and means providing in series opposition with said first and second grid signal components a third grid signal component responsive to the torque transmitted by the dynamoelectric apparatus.

2,639,396
COMMUTATOR, ARMATURE, AND METHOD OF MAKING THE SAME
William R. Harry, Hartland, Wis., assignor to N. T. Kyle
Application April 10, 1950, Serial No. 155,012
3 Claims. (Cl. 310—235)



1. A small commutator formed of sheet metal having terminal members and current carrying segments, said segments and terminal members being integral, said segments being regularly, radially deployed; said segments being bonded together but electrically isolated from each other solely by a thermo-plastic insulating material without mechanical locking means, said segment members curved so as to form a lesser diameter at a lateral edge of said commutator, said

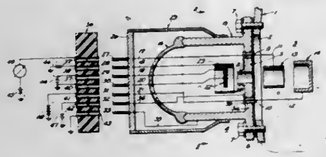
thermo-plastic insulating material further providing passage means for a shaft, an annulus of thermo-plastic material surrounding said lateral edge of the commutator while homogeneously bonding the entire assembly together whereby a strong commutator of small diameter is provided, and said annulus being of the same outer diameter as the outer diameter of the brush contacting portions of the commutator bar segments.

2,639,397

VACUUM GAUGE OF THE IONIZATION PRODUCING TYPE

John W. Clark and Sterling G. McNees, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application June 4, 1949, Serial No. 97,254
5 Claims. (Cl. 313—7)



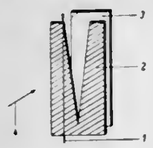
1. A unitary device for external attachment to and insertion through the wall of an evacuated chamber for determining the degree of vacuum within the chamber by ionization, comprising a housing enclosing a first sub-assembly consisting of an electron emitter and electron beam focussing electrodes, means removably attaching said housing in a vacuum-tight manner to the external wall of the chamber, said housing having an opening in registry with a corresponding opening in said wall and through which said beam is projected, and another sub-assembly consisting of an electron collector electrode and an ion collector electrode forming a structural unit with said first-mentioned sub-assembly for insertion of said other sub-assembly through said opening into the chamber at the point where the degree of vacuum is to be determined.

2,639,398

ELECTRONIC TUNING OR INDICATING TUBE

Werner Jacobi, Erlangen, Hermann Hinderer, Marloffstein bei Erlangen, and Karl Buchta, Karlsruhe, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany, a German corporation

Application November 29, 1950, Serial No. 204,122
In Germany December 9, 1949
13 Claims. (Cl. 313—107.5)



1. An electronic tube, especially for use as a tuning or indicating tube in an electronic circuit, comprising a plurality of electrodes which are structurally formed as specified and which are as seen in the direction of observation by an observer disposed as specified, namely, first, an elongated threadlike cathode, second, a flat control electrode in which is formed a cutout, said control electrode being disposed in back of said cathode substantially in parallel therewith and in its entirety radially spaced therefrom, and third, an elongated generally flat and narrow luminescent anode disposed in back of said control electrode substantially in parallel therewith and rearwardly spaced therefrom.

2,639,399

ELECTRON EMITTER

James M. Lafferty, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application March 31, 1950, Serial No. 153,212
8 Claims. (Cl. 313—345)



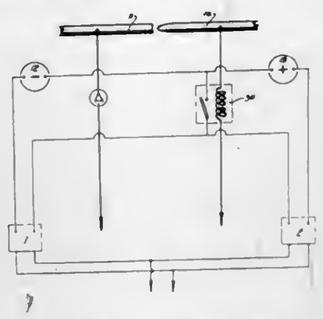
8. A cathode comprising a conductive support providing a heater and a coating comprising as the essential ingredient thereof at least one metal boride, the borides being selected from the group consisting of the borides of barium, strontium, calcium, thorium, uranium and the rare earth metals.

2,639,400

CARBON ARC LAMP OPERATION AND ARC INTENSITY CONTROL

Joseph J. Mascuch, Maplewood, and James K. Elderkin, Montclair, N. J.

Application March 25, 1950, Serial No. 151,834
2 Claims. (Cl. 314—52)



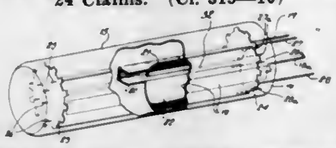
1. In a carbon arc lamp operating system, a pair of aligned carriages movable toward each other, a positive carbon electrode carried by one of said carriages, a negative carbon electrode carried by the other of said carriages, means including a pair of motors and a pair of gear and clutch assemblies for driving said carriages, said driving means also including a pair of feed screws, each having motion translating engagement with its respective carriage, and means including electronic circuits operating independently of voltage conditions across said electrodes for controlling current flow to each of said motors, to control selectively the feeding rate of each carbon electrode.

2,639,401

ELECTROOPTICAL TRANSLATING SYSTEM

Albert M. Skellett, Madison, N. J., assignor to National Union Radio Corporation, Newark, N. J., a corporation of Delaware

Application September 7, 1946, Serial No. 695,529
24 Claims. (Cl. 315—10)



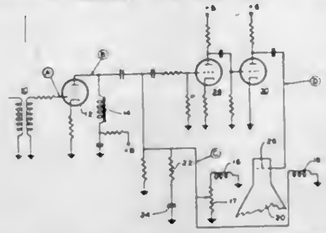
1. Electron tube apparatus, comprising an evacuated closing envelope containing an elongated linear photoelectric cathode extending parallel to the length of the axis of the envelope and arranged to be excited in accordance with different light values along its length, an electron collector electrode, means located between the cathode and collector electrode defining an electron permeable slit extending in spaced parallelism with the cathode and arranged to form an electron image of the said cathode excitation, a plurality of field-producing elements arranged in helical arcuate array and with the arcuate curvature at least partially surrounding said cathode along its length, and means to energize said elements to set up an electron deflecting field having a helical trajectory with respect to said slit and for rotating said field around an axis parallel to said cathode to cause successive elemental sections of said electron image to register successively with said slit.

2,639,402

SWEEP CIRCUIT

Chalmers W. Sherwin, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application December 29, 1944, Serial No. 570,416
5 Claims. (Cl. 315—22)



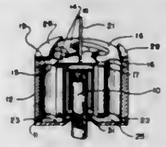
1. An electron tube circuit comprising first and second electron discharge tubes having electron control means, said second tube being a cathode ray tube having a beam deflecting coil, reactance in the plate circuit of said first electron discharge tube, means to abruptly vary the impedance of said plate circuit to shock-excite said reactance and generate recurrent transient waves thereacross, each wave having a portion which varies substantially linearly with time, means to impress each wave in its entirety upon the beam deflecting coil of said second tube, means responsive to said waves to generate square waves having a peak only during the occurrence of each of said linearly varying portions, and means to impress said square waves upon the control electrode of said second tube in such direction as to brighten said tube only during the occurrence of each of said linearly varying portions.

2,639,403

STRAPPED MULTICAVITY MAGNETRON

Prescott D. Crout, Lexington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application February 27, 1945, Serial No. 580,013
8 Claims. (Cl. 315—39)



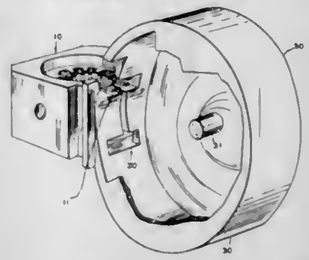
1. An ultra-high frequency magnetron multiresonator anode with a plurality of radially disposed anode segments, the resonators of said anode being defined in part by said segments, and metallic plates at both ends of said anode defining serpentine paths for the ultra-high frequency magnetic field generated in said resonators when said magnetron is operated in the pi mode.

2,639,404

MAGNETRON CIRCUIT

Edgar Everhart and Melvin A. Herlin, Cambridge, and Alexander G. Smith, Boston, and William V. Smith, Medford, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War

Application April 3, 1945, Serial No. 586,411
12 Claims. (Cl. 315—39)



5. An electronic device comprising means for developing electronic oscillations, means including a substantially tubular tunable cavity resonator for tuning and stabilizing the frequency of said oscillations, said means for developing electronic oscillations being connected to said tubular cavity resonator by an iris.

2,639,405

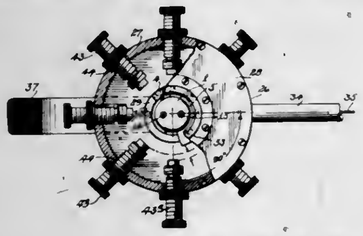
ELECTRON DISCHARGE DEVICE

Donald L. Benedict, Manhasset, N. Y., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts

Application September 29, 1945, Serial No. 619,289
16 Claims. (Cl. 315—39)

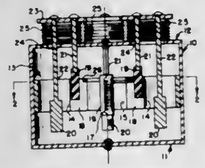
1. An electron discharge device adapted to be connected to an encircling cavity resonator and to operate as a magnetron, comprising a cathode elongated along an axis, and anode means surrounding said cathode and exposed in substantially all radial directions to said cathode, said anode means including continuous encircling terminal rings for connection to an encircling resonator, a pair of connectors about said cathode and a plurality of like axially extending con-

ductors joined together in alternation by a respective one of said connectors, the foregoing



construction being generally mechanically circularly symmetric about said axis and incorporating a circularly asymmetric structure.

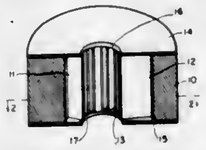
2,639,406
TUNABLE MAGNETRON TUBE
Franzo H. Crawford, Williamstown, Mass., assignor to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,895
2 Claims. (Cl. 315—40)



1. A magnetron comprising a cylindrical cathode, a plurality of cavity resonators concentrically disposed around said cathode and each having an open end facing said cathode, a case enclosing said cavity resonators, and an axially expandable Sylphon means connected to said case, said Sylphon means being disposed perpendicular to the axis of said cathode, frequency adjusting means including a plurality of inductance loading conductive elements, each centrally disposed in one of said cavity resonators, and a plurality of dielectric insert capacity-varying elements, each extending substantially across the open end of one of said cavity resonators, all of said inductance loading elements and all of said dielectric inserted elements being adjustably supported within said resonators of said magnetron by said Sylphon means, whereby the amounts that the inductance loading elements and said dielectric insert elements are inserted into said resonators are simultaneously adjustable and whereby the frequency of oscillation may be adjusted over a range of frequencies and spurious resonances are minimized.

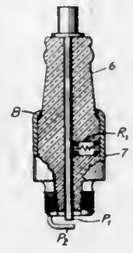
2,639,407
CLOSED END MAGNETRON
Willis E. Lamb, Jr., New York, N. Y., assignor to United States of America as represented by the Secretary of War
Application April 9, 1946, Serial No. 660,604
7 Claims. (Cl. 315—40)

1. A magnetron anode, comprising a cylindrical body, radially disposed and inwardly extending vanes in said body, said vanes extending along less than the whole radius of the body and forming alternate like and adjacent unlike cavity resonators therebetween, said resonators being open at the ends of said body, and an end plate at each end of the body directly secured to said



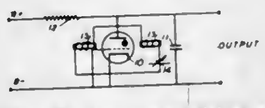
ends and said vanes to close said resonators, said plates being formed with a central aperture circumferentially coincident with the inner ends of said vanes.

2,639,408
FUEL IGNITION CONTROL
Melville F. Peters, East Orange, N. J.
Application November 12, 1949, Serial No. 126,771
2 Claims. (Cl. 315—59)



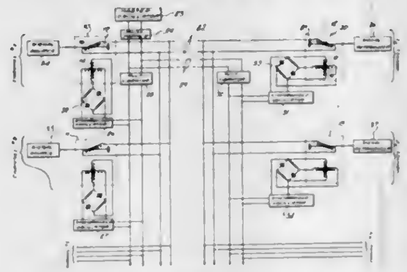
1. In an ignition system, in combination with each individual ignition current supply circuit, a circuit venting path operable as an integral part of each successive cycle of operation of the system, during normal use of the system, at its normal operating voltage, said path including a relatively high resistance element having one of its terminals connected to ground and the other of its terminals continuously and permanently connected in series with said current supply circuit.

2,639,409
GAS DISCHARGE TUBE
James D. Cobine, Schenectady, N. Y., assignor to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,090
5 Claims. (Cl. 315—236)



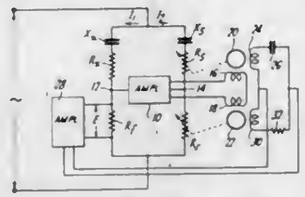
1. A noise generator, comprising a normally conducting gas discharge tube having an anode and a cathode, a source of positive potential, resistance means electrically connecting said anode to said source of potential, capacitor means electrically connecting said anode to said cathode and means for applying a constant magnetic field transverse to the longitudinal axis of said tube whereby the output of said tube consists substantially of random noise and random pulses.

2,639,410
MULTICHANNEL TELEMETRIC SYSTEM
Donald B. Harris, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application January 20, 1950, Serial No. 139,712
5 Claims. (Cl. 318—19)



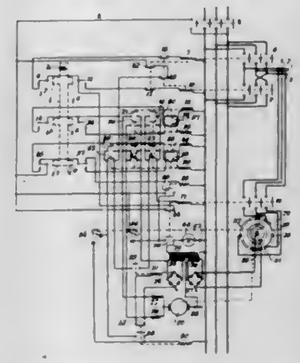
1. A frequency-division multiplex system of the type described, a plurality of signal-originating channels, a plurality of signal-reproducing channels, a signal transmission channel interconnecting all said originating and reproducing channels, means at each of said originating channels and including a master oscillator to produce thereat a phase-modulated carrier but with the carriers of respectively different frequencies, and means to receive and demodulate said carriers into their respective signal-reproducing channels, the last-mentioned means comprising a series of receiving synchros one for each reproducing channel, each synchro having a pair of stator windings with the stator windings of each synchro excited by respective carriers of the same frequency but displaced in substantial quadrature phase, and means to apply all the phase-modulated carriers from said transmission channel simultaneously to the rotor windings of said receiving synchros, each of said synchros serving in itself as a frequency selective demodulator for a corresponding one of said phase-modulated carriers.

2,639,411
ALTERNATING-CURRENT BRIDGE
Curtiss R. Schafer, Ridgefield, Conn.
Application July 8, 1950, Serial No. 172,678
11 Claims. (Cl. 318—19)



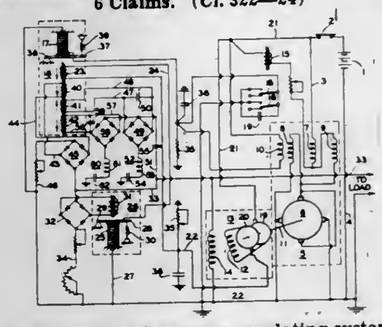
10. A self-balancing bridge including two resistors of adjustable ratio connected in series to constitute two bridge arms, a reactor and an adjustable resistor connected in series as a third arm, and a complex reactor as the fourth arm of the bridge, said arms being connected together and providing four terminals, means for deriving a reference voltage in phase with one of said resistors, a phase-sensitive unbalance detector having input connections to two diagonally opposite bridge terminals and to said reference voltage means, and the remaining two bridge terminals constituting alternating current input terminals, said unbalance detector including two motors, one motor being operable in response to the quadrature component of the unbalance voltage relative to the reference voltage to adjust said adjustable resistor, and the other motor being operable in response to the in-phase component of the unbalance voltage to adjust the ratio of said bridge arms.

2,639,412
CONTROL OF ELECTRICALLY EFFECTED ADJUSTMENTS OF HORIZONTAL BORING MACHINES
Henry Ward Lionel Kearns, Altrincham, England, assignor to H. W. Kearns & Co. Limited, Broadheath, England
Application November 2, 1950, Serial No. 193,600
In Great Britain November 24, 1949
2 Claims. (Cl. 318—198)



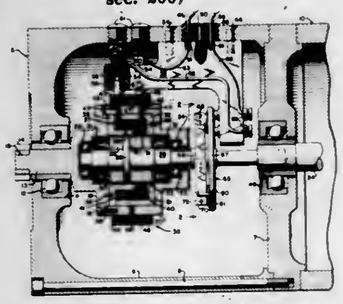
1. In a horizontal boring machine, a three-phase electromotor effecting adjustments of said machine, a control lever of said machine, a gate having pairs of opposed notches and in which said lever is displaceable in mutually perpendicular directions, microswitches operated by displacement of said lever into said notches, electric circuits controlled by said microswitches in one of said pairs of opposed notches and connecting said three-phase electromotor to a three-phase electric supply to rotate in selected directions, a source of direct current, a pilot electromotor driven by said source of direct current, a rotary switch driven by said pilot electromotor and connected to said source of direct current, electric circuits controlled by said microswitches in another of said pairs of opposed notches connecting said three-phase electromotor to said source of direct current through said rotary switch to rotate in selected directions in phase therewith, electric circuits controlled by said micro-switches in a further of said pairs of opposed notches also connecting said three-phase electromotor to said source of direct current through said rotary switch to rotate in selected direction in phase therewith, a slugged relay coil, an electric circuit through said slugged relay coil, a switch normally closing said circuit through said slugged relay coil and opened by said micro-switches in said further pairs of opposed notches, and a switch in the circuit of said pilot electromotor opened by said slugged relay coil.

2,639,413
FREQUENCY REGULATOR
Harold G. Haas, Belleville, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application January 13, 1950, Serial No. 138,436
6 Claims. (Cl. 322—24)



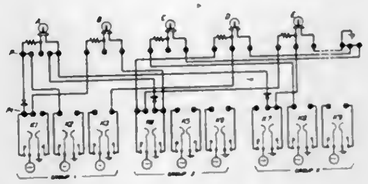
1. For use in a frequency regulating system for a motor driven alternator in which said motor has a winding for controlling the speed of said motor and thereby the output frequency of the alternator; the combination comprising means for regulating the energization of said speed control winding, an armature operatively connected to said regulating means, a spring biasing the armature in one direction to tend to operate said regulating means in one sense, a main winding biasing the armature in an opposite direction to tend to operate said regulating means in an opposite sense, a first auxiliary winding energized in a direction tending to operate the armature so as to cause said regulating means to effect a decrease in motor speed upon an increase in output frequency above a predetermined value, a second auxiliary winding energized in a direction tending to operate the armature so as to cause said regulating means to effect an increase in motor speed upon a decrease in alternator output frequency below said predetermined value, the energization of said auxiliary windings being equal and opposing at said predetermined value.

2,639,414
CONSTANT SPEED DRIVE BY USE OF A MAGNETIC-FLUID CLUTCH
Gerald G. Gould, Silver Spring, Md.
Application August 11, 1950, Serial No. 178,945
3 Claims. (Cl. 322—30)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A constant speed magnetic fluid clutch of the character disclosed including, in combination, a driving shaft, a driven shaft arranged in closely spaced adjacency from said driving shaft, a quantity of magnetic fluid interposed between said shafts for providing a driving connection between said shafts as said fluid is magnetically activated, a permanent magnet carried by one of said shafts for initially activating said fluid, an electromagnet carried by the other of said shafts for additionally magnetically activating said fluid as the electromagnet is energized, a generator driven by said driven shaft and operatively connected to said electromagnet for energizing said electromagnet, a switch secured to said driven shaft and interposed between said electromagnet and said generator, and a pair of normally closed contacts on said switch and selectively actuated in response to centrifugal force for intermittently interrupting the energizing of said electromagnet.

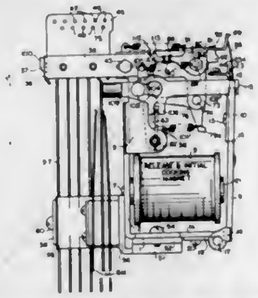
2,639,415
INDICATOR SELECTING AND LOCK-IN CIRCUIT
Paul Mallery, Murray Hill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 27, 1948, Serial No. 56,833
7 Claims. (Cl. 340—147)



1. In combination, a series of circuit closers, a series of indicators, plurality of said circuit closers having connected to them a plurality of multipled terminals forming a first series, a plurality of said indicators having connected to them a plurality of multipled terminals forming a second series, plain conductive cords connected between certain terminals of said first and second series, conductive cords including rectifiers connected between terminals of said first and second series poled toward said first series, and other conductive cords including rectifiers connected between terminals of said first and second series poled toward said second series, terminals of certain of said cords being connected to the same multipled group.

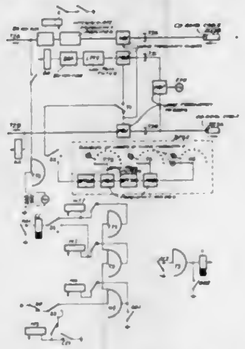
2,639,416
COUNTING RELAY
Kenneth W. Graybill, Elmhurst, and Hans Sengebusch, Villa Park, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 13, 1949, Serial No. 115,468
22 Claims. (Cl. 340—168)

1. A switch comprising a magnet, an armature, a plurality of successive driving members directly engageable and operable by said armature, a plurality of sets of contact springs respectively associated with and operable by said driving members, a plurality of interlinking members respectively carried by said driving members, and means including the interlinking member carried by any one of said driving members for causing only the next succeeding one of said driving members to be engaged and operated each time said armature is actuated by said magnet so as to operate the corresponding one of said



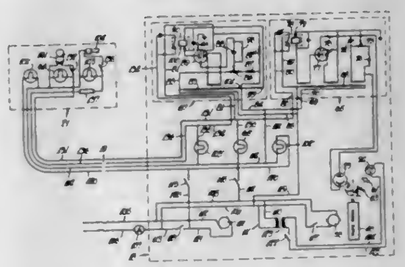
sets of contact springs in order to establish succeeding temporary electrical connections.

2,639,417
SELECTOR
Guy Harington Bellairs, London, and John Charles Ireland, Tunbridge Wells, England, assignors to British Telecommunications Research Limited, Taplow, England, a British company
Application January 24, 1948, Serial No. 4,146
In Great Britain January 27, 1947
6 Claims. (Cl. 340—171)



1. A frequency selector for use in a telecommunication system having input and output terminals, a variable frequency generator comprising a first series of sources of fixed frequency waves, the sources of said first series being designed to supply waves having distinctive frequencies which are separated by amounts of one value, a second series of sources of fixed frequency waves, the sources of said second series being designed to supply waves having distinctive frequencies which are separated by amounts of another value, the amount between the lowest and highest frequency of said second series of sources being less than any amount separating the frequencies of said first series, wave mixing means, a first selecting device by which any one of said first series of sources may be connected to said mixing means, a second selecting device by which any one of said second series of sources may be connected to said mixing means, filter means for restricting the output from said mixer to a resultant wave of a single frequency, which frequency is a distinctive combination of the frequencies of the waves selected by said selecting devices and distinct from any of the frequencies of the first and second series of sources, means for connecting said resultant wave to said output terminals and control means operable over and responsive to successive signals received at said input terminals by which the first and second selecting devices are operated in turn whereby the wave from the output to said mixer is directly distinctive of the combination of signals received by said control means, means responsive to signals received at said input terminals for successively operating said selecting devices, testing means connected to said output terminals, means responsive to the cessation of said signals for applying the resultant wave derived from said frequency generator to said testing means, means forming part of said testing means adapted to respond if said resultant wave and a wave present on said output terminals cooperate to produce a wave of a given frequency, and means operable on the cessation of said signals if said testing means fail to respond for causing said resultant wave to be applied to said output terminals to provide carrier currents for communication passing between said input and output terminals.

2,639,418
PHOTOSENSITIVE DETECTION APPARATUS
Carl Sundstrom and Paul L. Fairbanks, Syracuse, N. Y., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application December 9, 1950, Serial No. 200,016
14 Claims. (Cl. 340—228)



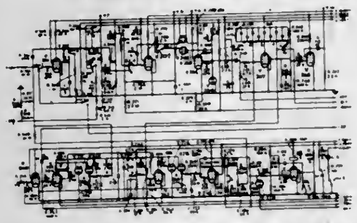
1. In a photosensitive detection apparatus, in combination, means for moving a test strip which changes color upon being subjected to a constituent the presence of which it is desired to detect in a gaseous medium, means for moving said gaseous medium into contact with said test strip, means for projecting a beam of light onto said test strip, a photosensitive device responsive to light received from said test strip, means for periodically reducing the intensity of the light passing from said test strip to said photosensitive device, a signal actuated by said photosensitive device responsive to said periodic reduction in the intensity of the light received by said photosensitive device, and a warning alarm actuated by said photosensitive device upon change in color of said test strip due to the presence of said constituent in said medium passing into contact with said test strip.

2,639,419

ELECTRONIC SIGNAL TRACKING CIRCUITS

Frederic Calland Williams, Timperley, and Norman Frank Moody, Cuffley, England, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application August 6, 1947, Serial No. 766,652
In Great Britain June 22, 1945
14 Claims. (Cl. 343—7)



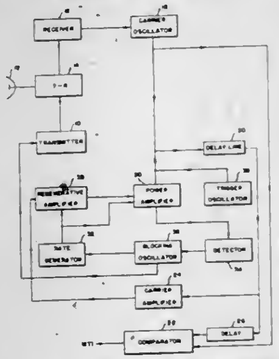
1. A pulse echo circuit comprising a source of recurrent input signals, a source of locally generated recurrent signals, means responsive to said input and locally generated recurrent signals for deriving a control voltage substantially proportional to the duration of the coexistence of said input and locally generated recurrent signals with one another, a load circuit and a condenser, circuit means to feed said control voltage to said load circuit and to said condenser to charge said condenser to a voltage equivalent to the mean value of said control voltage, and switching means coupled to said source of recurrent input signals, said switching means being operative in response to a drop in signal amplitude to a selected minimum value of said input signal to cause said condenser to discharge slowly into said load circuit.

2,639,420

RADAR SYSTEM FOR MOVING TARGET INDICATION

Bob E. Watt, Tulsa, Okla., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application February 18, 1946, Serial No. 648,531
7 Claims. (Cl. 343—9)



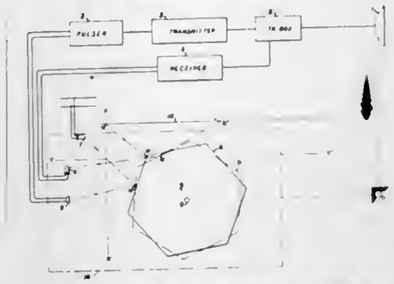
1. In a radio object locating system including a pulse type transmitter, a receiver supplying echo signals and an antenna connected to said receiver and transmitter, the apparatus comprising a carrier oscillator, means for modulating the output of said oscillator with the output of said receiver, a first and second delay means, comparison means, means for applying the output of said oscillator to a first input of said comparison means through said first and said second delay means in series, means for applying the output of said oscillator directly to a second input of said comparison means, a first amplifier means, a first and a second gated amplifier means, a detector means, means for applying the output of said first delay means to said detector means through said first amplifier means and said first and second gated amplifiers in series, the output of said second gated amplifier being connected to the input of said first delay means, a gate generator means supplying a controlling signal and connected to said first and second gated amplifier means, a blocking oscillator connected to the output of said detector means and responsive to the output of said detector means, said blocking oscillator being connected to said gate generator and said transmitter for supplying a controlling signal thereto, and a source of oscillatory energy connected to the input of said first delay means.

2,639,421

OPTICAL PROJECTION DISPLAY SYSTEM

Charles W. Miller, Sale, England, assignor to General Electric Company, a corporation of New York

Application April 14, 1948, Serial No. 20,982
In Great Britain April 17, 1947
1 Claim. (Cl. 343—11)



Apparatus for displaying echo pulses arriving at a receiver from an obstacle located in the field of scan of an angularly moving, directive pulse transmitter comprising a light beam source and a reflector, rotatable about an axis, carried on a movable carriage, means for modulating the intensity of said light beam in accordance with received pulses, means for synchronizing rotation of said reflector about said axis with the transmission of pulses, and means for rotating said carriage together with said reflector and light source about another non-intersecting axis, and means for synchronizing rotation of said carrier about said other axis with the directivity of said transmitter.

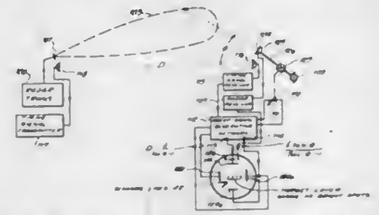
2,639,422

FORWARD RADAR ECHO-RANGING METHOD AND SYSTEM

Donald B. Harris, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application March 8, 1949, Serial No. 80,204
20 Claims. (Cl. 343—11)

1. The method of detecting the range and direction of a target located at an unknown position in a wave-propagation medium, which comprises, transmitting from a transmitting point a pulsed beam of high frequency radio waves through said medium to a remotely-located receiving point over a reflection path from the target, receiving said waves at the receiving point



over an adjustable azimuthal angle of reception, simultaneously transmitting timing pulses over a direct path from the transmitting point to the receiving point, adjusting said azimuthal angle to produce at the receiving point an electric signal which is controlled by

$$\frac{\delta}{D}$$

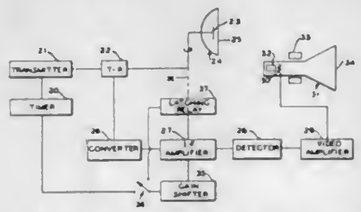
and the arrival angle of the reflected waves at the receiving point, wherein "δ" is the difference in physical length between the direct path from the transmitting point to the receiving point and the reflected or refracted path from the transmitting point to the receiving point, and "D" is the physical length of the direct path from the transmitting point to the receiving point, and applying said signal at the receiving point to produce an indication representing the said range and direction.

2,639,423

RADAR CONTRAST CONTROL SYSTEM

Rubby Sherr, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application August 1, 1945, Serial No. 608,306
4 Claims. (Cl. 343—11)



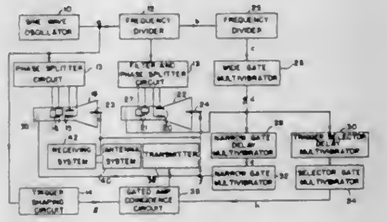
1. In a radiant energy object detection system having an antenna rotatable with a given azimuthal scan frequency, apparatus for controlling and improving the contrast in the presentation of radio object detection echoes, comprising a radio signal receiver, means coupled to said receiver for displaying said echoes, means connected to said receiver for periodically switching between two values above zero the sensitivity of said receiver to provide alternate high and low sensitivity periods, means responsive to said antenna azimuthal scan frequency and connected to said periodic switching means for rendering the duration of each of said periods equal to the duration of one scan cycle.

2,639,424

RADIO PULSE ECHO OBJECT LOCATING SYSTEM

Ivan A. Getting, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application August 30, 1945, Serial No. 613,608
7 Claims. (Cl. 343—11)



1. A radar system comprising a transmitter, a first indicating means, a second indicating means, generator means for producing a sinusoidal voltage, means connected to said generator means for utilizing said sinusoidal voltage in the production of a circular sweep on said first indicating means, trigger shaping means connected to said generator means for producing from said sinusoidal voltage a series of trigger pulses, first frequency division means connected to said generator means for producing from said sinusoidal voltage a second periodic voltage having a repetition frequency which is some submultiple of the frequency of said sinusoidal voltage, means connected to said frequency division means for producing from said second periodic voltage a circular sweep on said second indicating means, a second frequency division means connected to the output of said first frequency division means for producing from said second periodic voltage a third periodic voltage having a repetition frequency which is some submultiple of the repetition frequency of said second periodic voltage, means connected to the output of said second frequency division means for producing periodic gate voltage pulses to cause selected portions of said circular sweeps on said first and second indicating means to be visible, selector means for producing a periodic selector voltage pulse having the same repetition frequency as said gate voltage pulses and having a variable phase relation with respect thereto, and means connected both with said selector means and said trigger shaping means for amplifying any of said trigger pulses occurring simultaneously with one of said selector voltage pulses and for impressing said amplified trigger pulses on said transmitter to pulse said transmitter.

2,639,425

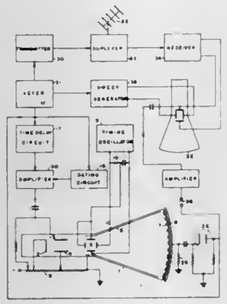
CATHODE-RAY TUBE TIMING PULSE GENERATOR FOR RADAR SYSTEMS AND THE LIKE

James L. Russell and Elvin E. Herman, Washington, D. C.

Application December 16, 1943, Serial No. 514,486
12 Claims. (Cl. 343—13)
(Granted under Title 35, U. S. Code (1952), sec. 266)

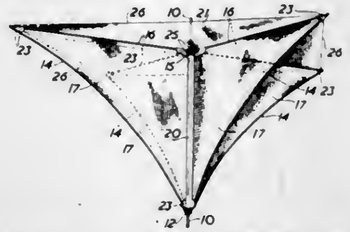
1. Means for time delaying a momentary input signal comprising a cathode ray tube including a

charge pattern sustaining target and a single electron beam generating means, means for periodically tracing the electron beam generated by said single electron beam generating means over a closed locus on said target to establish a voltage distribution along said locus, means modulating



said electron beam responsive to the input signal to establish a potential departure from said voltage distribution on said locus on receipt of said signal, and a target output circuit operative to furnish an output signal on the next subsequent trace of said beam over said departure.

2,639,426
RADAR REFLECTOR
David J. McAuley and Harold E. G. Richards, London, and Edward W. Clark, Lower Sydenham, London, England, assignors to Suchy Holdings Limited, London, England, a British company
Application March 24, 1950, Serial No. 151,678
In Great Britain March 28, 1949
4 Claims. (Cl. 343—18)



1. A radar corner reflector comprising in combination a central supporting post, four arms pivoted each at one end to said post, a sleeve member slidably mounted on said post, four struts each pivotally secured at one end to that end of one of said arms not pivoted to said post and pivotally secured at their other end to said sleeve member, means for securing said sleeve member in a position on said post at which said four struts all lie in a plane, and four panels of flexible reflecting material each secured with one side adjacent the central post, one side adjacent one of the four arms and the other side adjacent that strut which is pivotally secured to the latter one of said arms.

DESIGNS

MAY 19, 1953

169,571
COMBINED WHISK BROOM AND WINDOW WIPER
Nicholas Abrams, Los Angeles, Calif., assignor to Lee Products, Inc., Pasadena, Calif., a corporation of California
Application December 16, 1952, Serial No. 22,734
Term of patent 14 years
(Cl. D9—2)



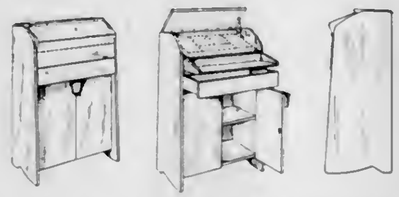
The ornamental design for a combined whisk broom and window wiper, as shown.

169,572
COMBINATION SEAM RIPPER AND THREAD PICKER
Herman Ament, New York, N. Y.
Application January 9, 1951, Serial No. 13,720
Term of patent 7 years
(Cl. D3—19)



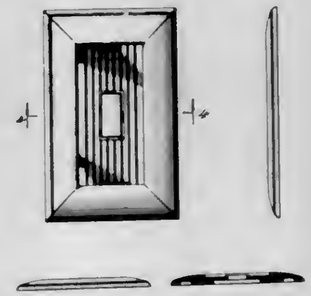
The ornamental design for a combination seam ripper and thread picker, substantially as shown.

169,573
CABINET
John T. Armbruster, Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 15, 1952, Serial No. 22,314
Term of patent 14 years
(Cl. D33—19)



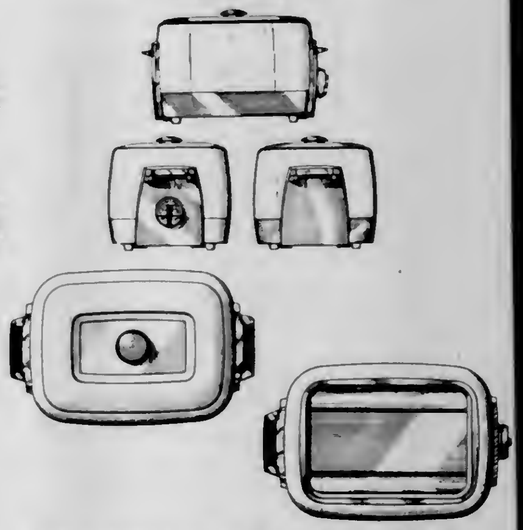
The ornamental design for a cabinet, substantially as shown and described.

169,574
SWITCH ESCUTCHEON
Lee T. Bordner, Los Angeles, Calif.
Application March 17, 1952, Serial No. 18,925
Term of patent 14 years
(Cl. D26—13)



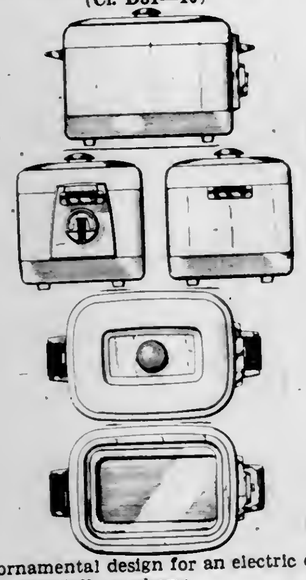
The ornamental design for a switch escutcheon, substantially as shown.

169,575
ELECTRIC DEEP FAT FRIER
Stanley J. Budlane, Palatine, and Robert Dusek, Cicero, Ill., assignors to Dulane, Inc., River Grove, Ill., a corporation of Illinois
Application August 25, 1952, Serial No. 21,186
Term of patent 14 years
(Cl. D81—10)



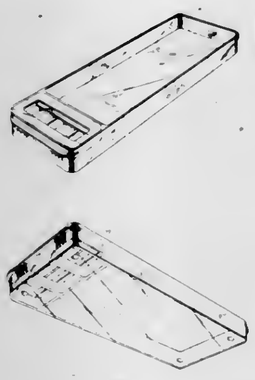
The ornamental design for an electric deep fat frier, substantially as shown.

169,576
ELECTRIC DEEP FAT FRIER
Stanley J. Budlane, Palatine, and Robert Dusek, Cicero, Ill., assignors to Dulane, Inc., River Grove, Ill., a corporation of Illinois
Application August 25, 1952, Serial No. 21,187
Term of patent 14 years
(Cl. D81—10)



The ornamental design for an electric deep fat frier, substantially as shown.

169,577
LUGGAGE TRAY
Clarence S. Burtchaell, Ross, Calif.
Application October 13, 1952, Serial No. 21,814
Term of patent 14 years
(Cl. D87—5)



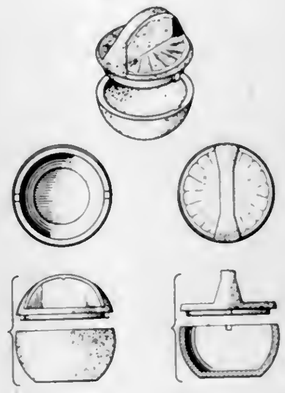
The ornamental design for a luggage tray, substantially as shown.

169,578
PSYCHIATRIC TESTING AND DEMONSTRATION DEVICE OR SIMILAR ARTICLE
Kenneth K. Buzby, Medford Lakes, N. J.
Application July 11, 1952, Serial No. 20,572
Term of patent 14 years
(Cl. D25—1)



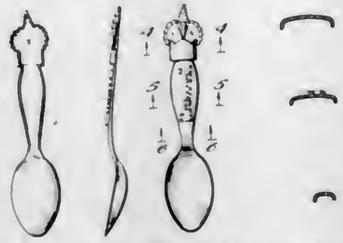
The ornamental design for a psychiatric testing and demonstration device or similar article, as shown and described.

169,579
COMBINATION BENCH AND RECEPTACLE
Walter L. Campbell, St. Petersburg, Fla.
Application August 6, 1952, Serial No. 20,931
Term of patent 14 years
(Cl. D15—11)



The ornamental design for a combination bench and receptacle, substantially as shown.

169,580
SPOON
Thomas Carvel, Yonkers, N. Y.
Application November 21, 1952, Serial No. 22,400
Term of patent 14 years
(Cl. D54—12)



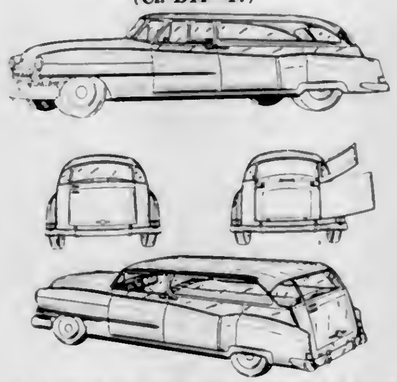
The ornamental design for a spoon, substantially as shown.

169,581
VASE
Millesan Drews, Laguna Beach, Calif.
Application November 29, 1952, Serial No. 22,501
Term of patent 14 years
(Cl. D29—28)



The ornamental design for a vase, as shown.

169,582
COMBINED FUNERAL AND FLOWER CAR
Robert D. Ehret, Hato Rey, P. R.
Application July 1, 1952, Serial No. 20,435
Term of patent 14 years
(Cl. D14—17)



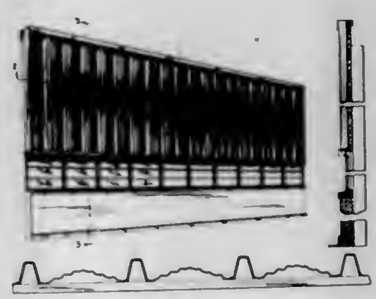
The ornamental design for a combined funeral and flower car, substantially as shown and described.

169,583
PILLOW
William M. Emery, New Providence, N. J.
Application October 6, 1952, Serial No. 21,736
Term of patent 14 years
(Cl. D3—9)



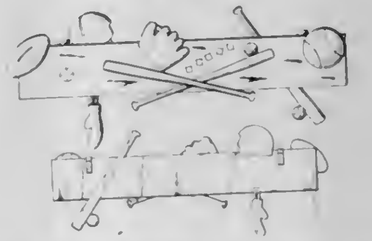
The ornamental design for a pillow, as shown.

169,584
BUILDING WALL
Joseph K. Gannett, Chagrin Falls, and Robert H. Strasmyer, Lakewood, Ohio, assignors to The Austin Company, East Cleveland, Ohio, a corporation of Ohio
Application September 3, 1952, Serial No. 21,292
Term of patent 14 years
(Cl. D13—1)



The ornamental design for a building wall, substantially as shown.

169,585
SPORTS DISPLAY CORNICE UNIT
Wallace M. Goodstein, San Francisco, Calif.
Application February 18, 1952, Serial No. 18,571
Term of patent 14 years
(Cl. D21—1)



The ornamental design for a sports display cornice unit, as shown.

169,586
HANDBAG
Lorris Vester Hagewood, Gatlinburg, Tenn.
Application January 14, 1953, Serial No. 23,134
Term of patent 7 years
(Cl. D87—3)

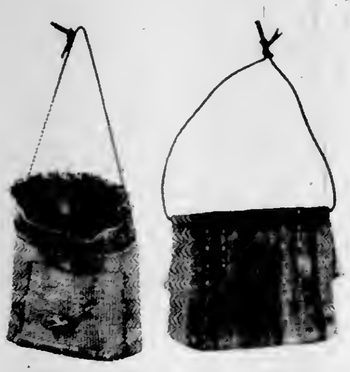


The ornamental design for a handbag, as shown.

169,587
HANDBAG
Lorris Vester Hagewood, Gatlinburg, Tenn.
Application January 14, 1953, Serial No. 23,135
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown and described.





169,588
SCARF
Willy Hanselmann, Paris, France, assignor to Edgar C. Hyman Co. Inc., New York, N. Y., a corporation of New York
Application December 10, 1952, Serial No. 22,612
Term of patent 7 years
(Cl. D3—12)



The ornamental design for a scarf, substantially as shown.

169,589
TETHERED TOP TOY
Merrill L. Hassenfeld, Providence, R. I.
Application April 18, 1951, Serial No. 14,881
Term of patent 3½ years
(Cl. D34—15)



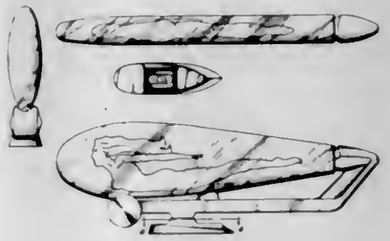
The ornamental design for a tethered top toy, as shown and described.

169,590
COMBINED TOILET SEAT AND COVER THEREFOR
Jon W. Hauser, Oak Park, Ill., assignor to Hawley Products Company, St. Charles, Ill., a corporation of Delaware
Application November 1, 1952, Serial No. 22,099
Term of patent 14 years
(Cl. D4—5)



The ornamental design for a combined toilet seat and cover therefor, substantially as shown and described.

169,591
AUTOMOBILE HOOD ORNAMENT
Frederick A. Helm, Detroit, Mich., assignor to Helm Accessories, Inc., Detroit, Mich., a corporation of Michigan
Application May 17, 1952, Serial No. 19,766
Term of patent 7 years
(Cl. D14—18)



The ornamental design for an automobile hood ornament, as shown.

169,592
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,012
Term of patent 7 years
(Cl. D45—4)



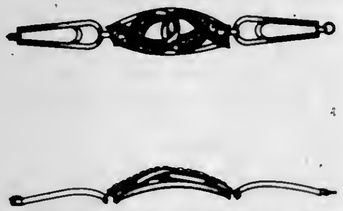
The ornamental design for a link chain for a bracelet or the like, substantially as shown.

169,593
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,013
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,594
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,016
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

169,595
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,017
Term of patent 7 years
(Cl. D45—16)



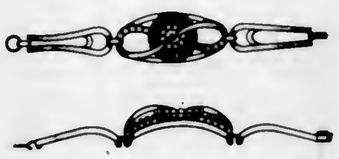
The ornamental design for a necklace or the like, substantially as shown and described.

169,596
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,022
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

169,597
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,024
Term of patent 7 years
(Cl. D45—4)



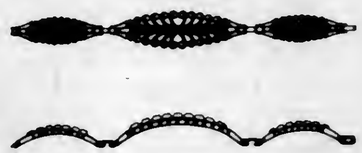
The ornamental design for a bracelet or the like, substantially as shown.

169,598
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 6, 1953, Serial No. 23,025
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,599
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,212
Term of patent 7 years
(Cl. D45—4)



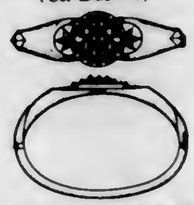
The ornamental design for a bracelet or the like, substantially as shown.

169,600
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,213
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,601
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,220
Term of patent 7 years
(Cl. D45—4)



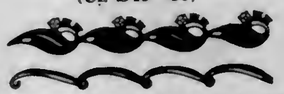
The ornamental design for a bracelet or the like, substantially as shown.

169,602
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,510
Term of patent 7 years
(Cl. D45—9)



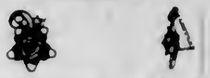
The ornamental design for an earring or the like, substantially as shown.

169,603
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,222
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

169,604
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,512
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,605
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,513
Term of patent 7 years
(Cl. D45—9)



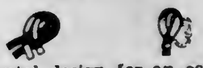
The ornamental design for an earring or the like, substantially as shown.

169,606
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,514
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,607
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,515
Term of patent 7 years
(Cl. D45—9)



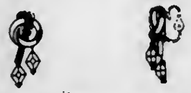
The ornamental design for an earring or the like, substantially as shown.

169,608
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,516
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,609
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 9, 1953, Serial No. 23,517
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,610
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,718
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,611
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,719
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,612
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,720
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,613
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,721
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,614
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,722
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,615
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,723
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,616
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,724
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,617
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,725
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,618
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,726
Term of patent 7 years
(Cl. D45—19)



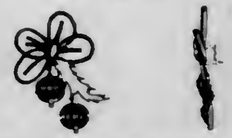
The ornamental design for a brooch or the like, substantially as shown.

169,619
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,727
Term of patent 7 years
(Cl. D45—19)



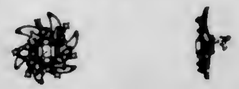
The ornamental design for a brooch or the like, substantially as shown.

169,620
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,728
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,621
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 20, 1953, Serial No. 23,729
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,622
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,905
Term of patent 7 years
(Cl. D45—19)



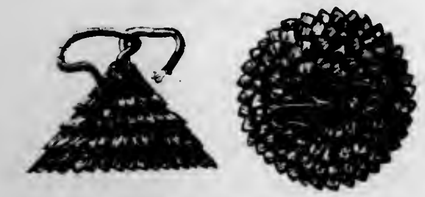
The ornamental design for a brooch or the like, substantially as shown.

169,623
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,907
Term of patent 7 years
(Cl. D45—9)



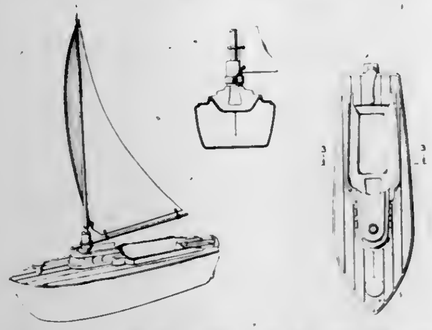
The ornamental design for an earring or the like, substantially as shown.

169,624
HAT
Sonia Katzin, Chicago, Ill.
Application April 2, 1952, Serial No. 19,155
Term of patent 3½ years
(Cl. D3—13)



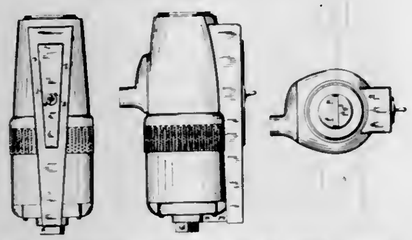
The ornamental design for a hat, as shown.

169,625
TELEVISION ANTENNA
Mack Kohl, Hampshire, Ill., assignor to Joseph N. Marks, Julius Tunkl, I. Rosenthal, and E. Lichtenstein, doing business as Tricraft Products Co., Chicago, Ill.
Application February 23, 1952, Serial No. 18,642
Term of patent 3½ years
(Cl. D26—14)



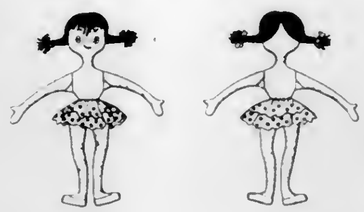
The ornamental design for a television antenna, substantially as shown.

169,626
GARBAGE GRINDER
Robert C. Koslo, Parma, Ohio, assignor to Lockley Machine Company, New Castle, Pa., a corporation of Pennsylvania
Application January 7, 1953, Serial No. 23,056
Term of patent 14 years
(Cl. D55—1)



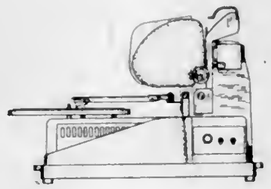
The ornamental design for a garbage grinder, substantially as shown.

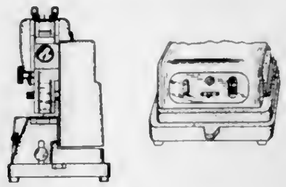
169,627
DOLL
Howard Landorf, New York, N. Y.
Application May 23, 1952, Serial No. 19,851
Term of patent 3½ years
(Cl. D34—4)



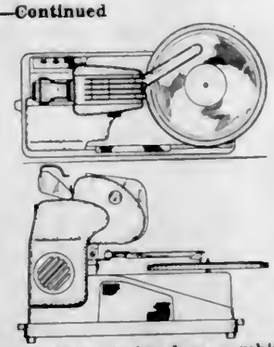
The ornamental design for a doll, as shown.

169,628
COMBINATION PROJECTOR AND PHONOGRAPH
Robert H. Larson, Batavia, Ill., assignor to Du Kane Corporation, St. Charles, Ill., a corporation of Illinois
Application February 8, 1952, Serial No. 18,439
Term of patent 14 years
(Cl. D61—1)



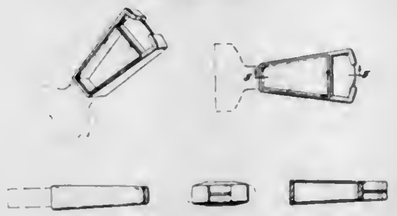


169,628—Continued



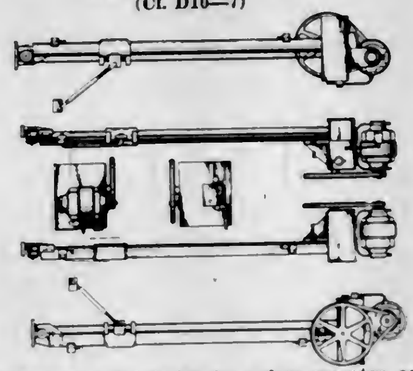
The ornamental design for a combination projector and phonograph, as shown.

169,629
IMPLEMENT HANDLE
James O. Melton, Los Angeles, Calif., assignor to R. R. Kellogg Advertising Services, Inc., Los Angeles, Calif., a corporation of California
Application July 5, 1952, Serial No. 20,472
Term of patent 14 years
(Cl. D44—29)



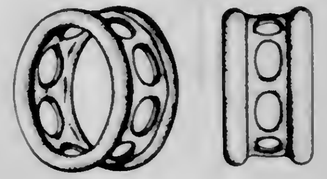
The ornamental design for an implement handle, substantially as shown and described.

169,630
DOOR OPERATOR
Harold L. Miller, Grosse Pointe Park, Mich., assignor to Robot Appliances Inc., Dearborn, Mich.
Application July 25, 1951, Serial No. 16,018
Term of patent 14 years
(Cl. D10—7)



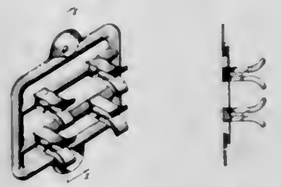
The ornamental design for a door operator, as shown.

169,631
INFLATABLE FLOAT
William Z. Norman, New York, and Julius Billig, Kew Gardens, N. Y., assignors to Bilnor Corp., Maspeth, N. Y., a corporation of New York
Application July 11, 1950, Serial No. 11,069
Term of patent 3½ years
(Cl. D34—15)



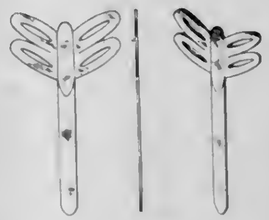
The ornamental design for an inflatable float, as shown.

169,632
WALL COMB HOLDER
Walter F. Pfarrer, Beaver Dam, Wis.
Application November 28, 1952, Serial No. 22,475
Term of patent 7 years
(Cl. D86—10)



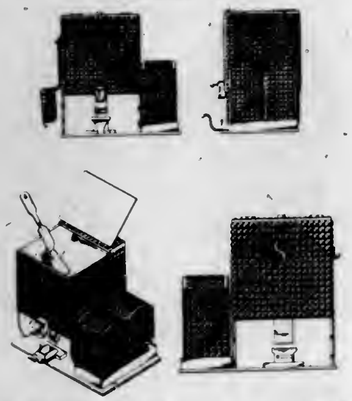
The ornamental design for a wall comb holder, as shown.

169,633
GARDEN MARKER
Mary Evalyn Ravenscroft, Colorado Springs, Colo.; now by change of name Mary Ravenscroft Riddle
Application January 24, 1952, Serial No. 18,192
Term of patent 14 years
(Cl. D35—1)



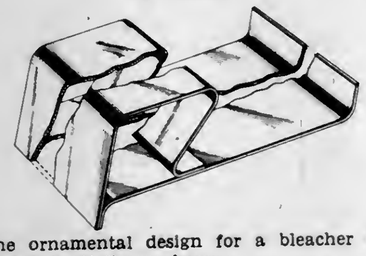
The ornamental design for a garden marker, substantially as shown.

169,634
SUGAR BOWL SET
Anthony Rella, New York, N. Y.
Application May 28, 1952, Serial No. 19,920
Term of patent 3½ years
(Cl. D44—6)



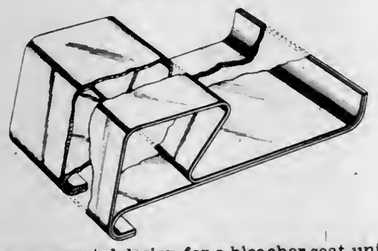
The ornamental design for a sugar bowl set, as shown.

169,635
BLEACHER SEAT UNIT
Archer W. Richards, Chagrin Falls, Ohio
Application February 18, 1952, Serial No. 18,555
Term of patent 14 years
(Cl. D15—1)



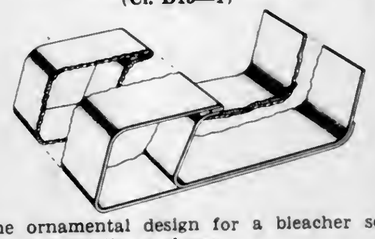
The ornamental design for a bleacher seat unit, substantially as shown.

169,636
BLEACHER SEAT UNIT
Archer W. Richards, Chagrin Falls, Ohio
Application February 18, 1952, Serial No. 18,556
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a bleacher seat unit, substantially as shown.

169,637
BLEACHER SEAT UNIT
Archer W. Richards, Chagrin Falls, Ohio
Application February 18, 1952, Serial No. 18,557
Term of patent 14 years
(Cl. D15—1)



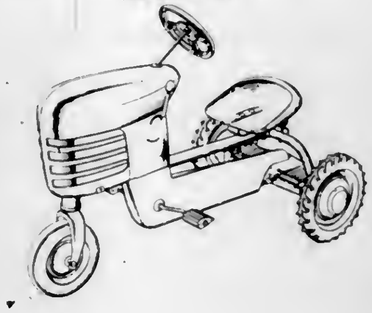
The ornamental design for a bleacher seat unit, substantially as shown.

169,638
CURTAIN FABRIC
Max Sadinoff, New York, N. Y.
Application August 20, 1952, Serial No. 21,128
Term of patent 3½ years
(Cl. D47—6)

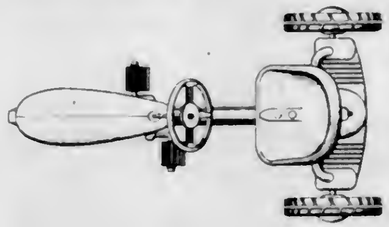


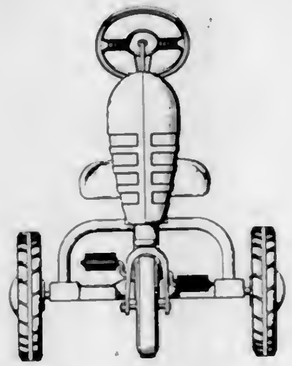
The ornamental design for a curtain fabric, as shown and described.

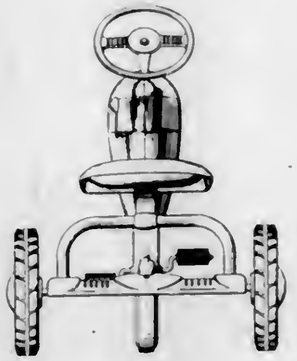
169,639
JUVENILE TRACTOR
Viktor Schreckengost, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 16, 1952, Serial No. 19,344
Term of patent 14 years
(Cl. D34—15)



169,639—Continued

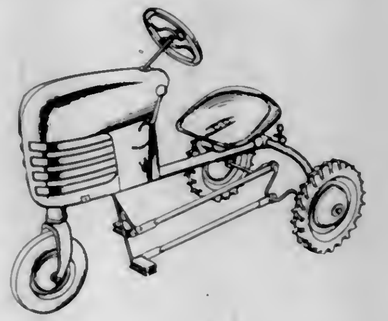


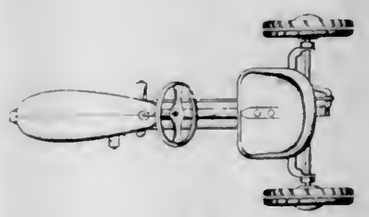


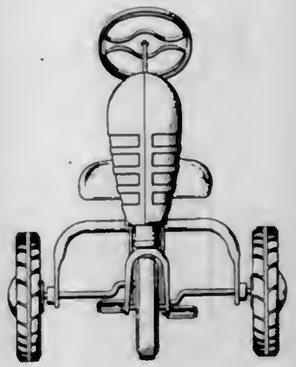


The ornamental design for a juvenile tractor, substantially as shown.

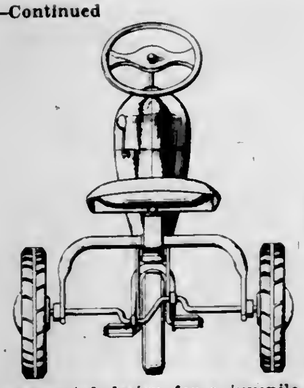
169,640
JUVENILE TRACTOR VEHICLE
Viktor Schreckengost, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 16, 1952, Serial No. 19,345
Term of patent 14 years
(Cl. D34—15)







169,640—Continued



The ornamental design for a juvenile tractor vehicle, substantially as shown.

169,641
PORTABLE FIRE EXTINGUISHER OR SIMILAR ARTICLE
Henry H. Schroeder, Jr., Essex Fells, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application July 19, 1952, Serial No. 20,685
Term of patent 14 years
(Cl. D16—2)



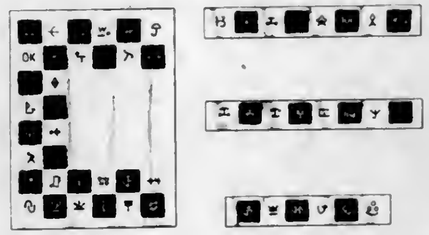
The ornamental design for a portable fire extinguisher or similar article, substantially as shown and described.

169,642
BOTTLE
Melvin E. St. Clair, Hartford, Conn., assignor to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application October 7, 1952, Serial No. 21,743
Term of patent 14 years
(Cl. D58—6)



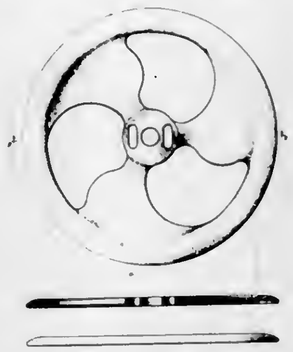
The ornamental design for a bottle, as shown.

169,643
BOX COVER
Franz Wagner, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application November 17, 1951, Serial No. 17,456
Term of patent 7 years
(Cl. D58—12.6)



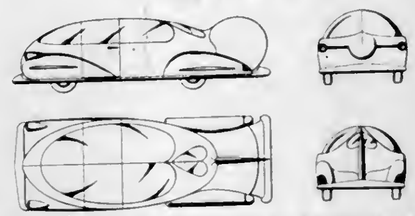
The ornamental design for a box cover, as shown.

169,644
SKI POLE RING
Alexander C. H. Weiss, Chicago, Ill.
Application February 28, 1951, Serial No. 14,340
Term of patent 14 years
(Cl. D34—14)



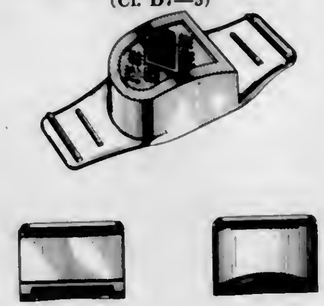
The ornamental design for a ski pole ring, as shown.

169,645
AUTOMOBILE
Walter Wiggins, Jr., Beaver Heights, Md.
Application December 29, 1952, Serial No. 22,903
Term of patent 14 years
(Cl. D14—3)



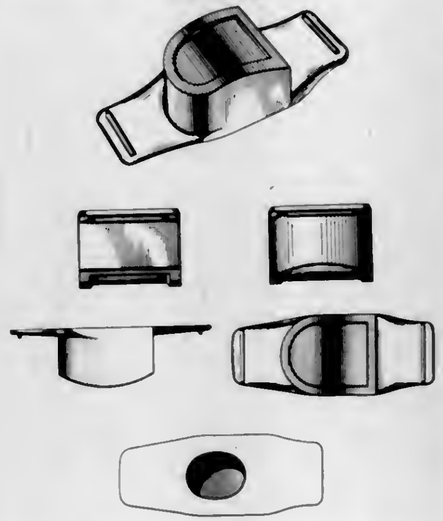
The ornamental design for an automobile, as shown.

169,646
WALKING HEEL FOR A CAST
Frank O. Wright, Memphis, Tenn.
Application November 23, 1951, Serial No. 17,493
Term of patent 14 years
(Cl. D7—5)



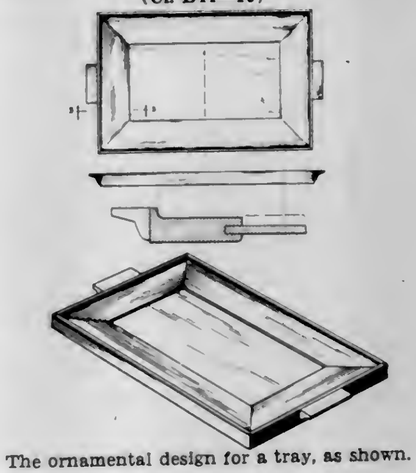
The ornamental design for a walking heel for a cast, as shown.

169,647
WALKING HEEL FOR A CAST
Frank O. Wright, Memphis, Tenn.
Application November 23, 1951, Serial No. 17,494
Term of patent 14 years
(Cl. D7—5)



The ornamental design for a walking heel for a cast, as shown.

169,648
TRAY
Anton Zaic, Queens Village, N. Y.
Application December 27, 1950, Serial No. 13,598
Term of patent 7 years
(Cl. D44—10)



The ornamental design for a tray, as shown.

169,649
MERCHANDISE DISPLAY RACK
Joe Zei, Cleveland Heights, and Robert W. Latimer, Bay Village, Ohio, assignors to American Greetings Corporation, a corporation of Ohio
Application May 8, 1951, Serial No. 15,095
Term of patent 14 years
(Cl. D80—10)

The ornamental design for a merchandise display rack, as shown.

May 26, 1953 Volume 670 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business May 8, 1953

Total number of patent applications awaiting action, 98,708. Date of oldest new application, August 1, 1952; date of oldest amended application, August 1, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.		3-11-53	2
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	8-15-52	8-12-52	1485
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	9-9-52	8-12-52	1156
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-15-52	9-12-52	1929
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	8-20-52	8-21-52	1444
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences, Gates.	8-29-52	8-22-52	1022
6. SURLE, H., Carbon Chemistry (part)	8-15-52	8-11-52	2560
7. GONSALVES, J. E., Optics; Photography (part)	8-16-52	8-12-52	1525
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	9-26-52	9-22-52	1073
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	8-29-52	8-29-52	1255
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	9-4-52	9-4-52	1289
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	8-14-52	8-21-52	1142
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	8-18-52	8-17-52	1262
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	8-13-52	8-13-52	1305
14. MANJAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	8-27-52	8-22-52	1475
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-13-52	8-11-52	1728
16. LOVEWELL, N. N., Television, Telephony	8-27-52	8-25-52	1524
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters, Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	8-19-52	8-20-52	1619
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-24-52	9-8-52	680
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	8-7-52	8-4-52	1170
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	8-26-52	8-21-52	1279
21. MADER, R. C., Textiles	8-19-52	8-18-52	1246
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	8-15-52	8-16-52	842
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	9-3-52	9-4-52	932
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	9-30-52	9-30-52	1062
25. NEVIUS, B. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	8-9-52	8-11-52	1261
26. YOUNG, R. B., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	9-10-52	9-8-52	1803
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	8-15-52	8-14-52	1261
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	8-26-52	8-22-52	1107
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	8-14-52	8-12-52	1185
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	10-1-52	10-1-52	1348
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	8-12-52	8-8-52	2437
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-6-52	9-22-52	1270
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	8-8-52	8-26-52	1840
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	8-22-52	8-18-52	1229
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles	10-1-52	9-23-52	1183
36. McFADYEN, A. D., Measuring and Testing	9-2-52	9-2-52	1085
37. LEVY, M. L., Electricity Switches, Welding, Heating; Recorders	9-10-52	9-5-52	1989
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	8-29-52	8-22-52	1529
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	10-28-52	10-27-52	1736
40. DRUMMOND, E. J., Receptacles (part); Packages.	11-10-52	11-10-52	1070
41. GURLEY, R. B., Check Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-29-52	9-18-52	851

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection Signals; Telegraph (part); Signals and Indicators.	8-28-52	8-30-52	1075
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	9-5-52	9-5-52	1718
44. COBLE, A. S. (Acting), Beds; Chairs; Seats	9-6-52	9-4-52	1187
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	9-11-52	9-11-52	1325
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	8-12-52	8-12-52	1063
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	8-16-52	8-14-52	1647
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	8-20-52	8-22-52	1679
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	9-6-52	9-3-52	1298
50. BENGEL, W. G., Synthetic Resins; Rubber	10-13-52	10-15-52	1604
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Signaling); Radiant Energy Communications (part, e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	8-14-52	8-18-52	1505
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	9-25-52	9-29-52	1859
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	9-12-52	9-12-52	969
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	8-26-52	8-27-52	1838
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	9-4-52	9-3-52	986
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	9-20-52	9-23-52	1277
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-3-52	10-6-52	1649
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	8-8-52	8-9-52	1389
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	9-6-52	9-8-52	1389
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994)	9-4-52	8-27-52	1041
61. STRIZAK, J. P. (Acting), Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	9-18-52	9-16-52	1169
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	8-16-52	8-12-52	1847
63. WINKELSTEIN, A. B., Fermentation, Foods and Beverages, Carbon Chemistry (part)	8-12-52	8-13-52	1841
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	9-12-52	9-10-52	1346
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	8-25-52	8-25-52	813
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	9-4-52	9-5-52	1726
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making	10-14-52	10-6-52	1373
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	9-8-52	9-10-52	1134
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	8-1-52	8-1-52	3305
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-12-53	1-9-53	805
DESIGNS: A—BREHM, G. L., Industrial Arts	1-9-53	2-2-53	661
DESIGNS: B—GRAY, M. A., Household, Personal and Floe Arts			

Number of new applications received week ending April 24, 1953

PATENTS 1,480 DESIGNS 106 REISSUES 6 TOTAL 1,592

Total number of trade-mark applications awaiting action (including renewals and republications), 11,423. Date of oldest new application, Dec. 5, 1952; date of oldest amended application, Dec. 5, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	12-5-52	12-3-52	2990
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	12-26-52	12-18-52	2581
Renewals (All Classes)	3-10-53	4-20-53	565
Republications (All Classes)	3-24-53	3-9-53	359
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	12-28-52	12-7-52	2534
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	12-19-52	12-11-52	2394

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Sedative and hypnotic. Serial No. 639,358, May 26. Class 18.

Abbotts Dairies, Inc., Philadelphia, Pa. Ice cream and sherbets. Serial No. 632,407, May 26. Class 46.

Adelt, Carl W., doing business as Uni-Therm Company, Maya Landing, N. J. Chimney caps. Serial No. 629,409, May 26. Class 34.

Atriline Luggage Shop, New York, N. Y. Valises, trunks, suitcases, etc. Serial No. 630,370, May 26. Class 3.

Alabama Coffee Co., Sheffield, Ala. Coffee, sandwich spread, peanut butter, etc. Serial No. 616,840, May 26. Class 46.

American Cyanamid Company, New York, N. Y. Vitamin preparation. Serial No. 622,705, May 26. Class 18.

American Felt Company, Glenville, Conn. Felt pads. Serial No. 639,978, May 26. Class 50.

American Stores Company, Philadelphia, Pa. Canned apple sauce, apple butter, tomato catsup, etc. Serial No. 588,622, May 26. Class 46.

American Vacuum Company: *See*—
Persons, Ralph H.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Mono- and di-glycerides, used as an ingredient in vegetable oil food products, etc. Serial No. 631,233, May 26. Class 46.

Anderson Household Scooter Products: *See*—
Anderson, Lacy.

Anderson, Lacy, doing business as Anderson Household Scooter Products, Barberton, Ohio. Scooter designed for use in the household. Serial No. 635,895, May 26. Class 19.

Andrews, O. B., Company, Chattanooga, Tenn. Paperboard folding cartons. Serial No. 640,774, May 26. Class 2.

Angelica Uniform Company, St. Louis, Mo. Wearing apparel. Serial No. 636,108, May 26. Class 39.

Appleton Electric Company, Chicago, Ill. General service, spring operated balance reels. Serial No. 608,588, May 26. Class 23.

Arizona Citrus Growers, Phoenix, Ariz. Fresh citrus fruits. Serial No. 634,069, May 26. Class 46.

Arrow Packing Co., Exeter, Calif. Fresh grapes. Serial No. 639,360, May 26. Class 46.

Automatic Devices Co., Allentown, Pa. Steel curtain track. Serial No. 637,563, May 26. Class 13.

Automotive Engineering, Inc., Chicago, Ill. Mufflers. Serial No. 629,416, May 26. Class 23.

Bagdasarian, Richard, & Co., Thermal, Calif. Fresh grapes. Serial No. 633,407, May 26. Class 46.

Bakers Associates Incorporated, Chicago, Ill. Bread and bread mix. Serial No. 637,531, May 26. Class 46.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Rayon carpeting and cotton carpeting. Serial No. 639,800, May 26. Class 42.

Bates Manufacturing Company, The, Orange, N. J. Strips of staples. Serial No. 636,875, May 26. Class 13.

Bedell, Berkley W., doing business as Berkley Fly Company, Spirit Lake, Iowa. Snelled hooks and fishing leaders. Serial No. 641,267, May 26. Class 22.

Bell & Howell Company, Chicago, Ill. Motion picture cameras. Serial No. 623,331, May 26. Class 26.

Benbow Manufacturing Co., Burlingame, Calif. Electric trolley conductors, collectors and insulating sheathing. Serial No. 625,090, May 26. Class 21.

Benedikter, Marjorie, Inc., Division of North Shore Manufacturing Co., Duluth, Minn. Men's women's, boys', and girls' outerwear. Serial No. 635,578, May 26. Class 39.

Berkley Fly Company: *See*—
Bedell, Berkley W.

Bethlehem Steel Company, Bethlehem, Pa. Galvanized steel sheets. Serial No. 637,165, May 26. Class 14.

Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y. Canned tuna fish, sardines, and kippered herrings. Serial No. 631,785, May 26. Class 46.

Binswanger & Co. Incorporated, Richmond, Va. Patterned architectural glass. Serial No. 632,592, May 26. Class 33.

Blair Corset Company, Inc., Chicago, Ill. Corsets, girdles, knitted step-ins, etc. Serial No. 621,810, May 26. Class 39.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. Serial No. 637,168, May 26. Class 39.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. Serial No. 637,170, May 26. Class 39.

Brookfield Orchards, Inc., North Brookfield, Mass. Fresh apples. Serial No. 624,997, May 26. Class 46.

Brooks, Inc., Homestead, Fla. Fresh limes, avocadoes and mangoes. Serial No. 637,477, May 26. Class 46.

Brown & Ackerman, Inc., New York, N. Y. Cotton sateen fabrics. Serial No. 601,196, May 26. Class 42.

Bullard Company, The, Bridgeport, Conn. Machine tools. Serial No. 613,159, May 26. Class 23.

"Burrus Feed Mills": *See*—
Burrus Mills, Incorporated.

Burrus Mills, Incorporated, doing business under the name and style of "Liberty Mills" and "Burrus Feed Mills," San Antonio and Fort Worth, Tex. Range feed and protein-enriched range feed. Serial No. 621,655, May 26. Class 46.

C. G. S. Laboratories, Inc., Stamford, Conn. Variable inductors. Serial No. 613,361, May 26. Class 21.

Caldwell, E. L., & Sons, Corpus Christi, Tex. Brush cutting machines. Serial No. 626,977, May 26. Class 23.

California Berry Freezers, Inc., Watsonville, Calif. Fresh strawberries and frozen fresh strawberries. Serial No. 629,472, May 26. Class 46.

Canadian Wallpaper Manufacturers Limited, New Toronto, Ontario, Canada, assignee of The Reg. N. Boxer Company Limited. Wallpaper. Serial No. 561,487, May 26. Class 37.

Cardinal Chemical Corporation, Philadelphia, Pa. Electrically-heated volatilizers. Serial No. 615,877, May 26. Class 21.

Carter Carburetor Corporation, St. Louis, Mo. Carburetors and fuel pumps, and special wrenches, etc. Serial No. 603,474, May 26. Class 23.

Cel-U-Dex Corporation, Brooklyn, N. Y. Index tab sets. Serial No. 627,490, May 26. Class 37.

Cel-U-Dex Corporation, Brooklyn, N. Y. Index tabs. Serial No. 627,492, May 26. Class 37.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Women's hosiery. Serial No. 625,193, May 26. Class 39.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Ladies' hosiery. Serial No. 631,467, May 26. Class 39.

Cia. Anma. Toddy Venezolana, Caracas, Venezuela. Canned fruit juices and frozen fruit juices. Serial No. 631,517, May 26. Class 46.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Chemical-pharmaceutical preparations. Serial No. 623,947, May 26. Class 18.

City Stores Company, Philadelphia, Pa. Ladies' coats and suits. Serial No. 636,341, May 26. Class 39.

Clark, Henry N., Co., Boston, Mass. Cooking ranges. Serial No. 634,238, May 26. Class 34.

Clementina Company, San Francisco, Calif. Sand blasting equipment. Serial No. 585,054, May 26. Class 23.

Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Aluminum foil. Serial No. 641,500, May 26. Class 14.

Cochran Foil Products Co.: *See*—
Cochran Foil Company.

Cold Spring Bleachery, Yardley, Pa. Bleaching, mercerizing, dyeing, printing, and shrinking of textile fabrics. Serial No. 625,000, May 26. Class 106.

Colton Press, Inc., New York, N. Y. Publication. Serial No. 639,264, May 26. Class 38.

Condles, Mrs., Salad Company, Salt Lake City, Utah. Washed and prepared raw vegetables. Serial No. 602,373, May 26. Class 46.

Consolidated Sewing Machine Corp., New York, N. Y. Sewing machines and parts thereof and attachments therefor. Serial No. 639,108, May 26. Class 23.

Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes. Serial No. 631,919, May 26. Class 19.

Converted Rice, Inc., Houston, Tex. Rice. Serial No. 636,466, May 26. Class 46.

Corn States Advertising Service, Inc., Des Moines, Iowa. Home blackboard. Serial No. 629,478, May 26. Class 50.

Cortland Line Company, Inc., Cortland, N. Y. Fish lines. Serial No. 641,440, May 26. Class 22.

Creative Plastics Corp., Stony Brook, N. Y. Mountings of transparent plastic for the display of objects. Serial No. 619,744, May 26. Class 50.

Cultro, Inc., Boise, Idaho. Rotary cultivators. Serial No. 600,163, May 26. Class 23.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. Serial No. 639,921, May 26. Class 42.

Defrates, Joseph F., Springfield, Ill. Chilli mix. Serial No. 614,137, May 26. Class 46.

Distributors Trucking Corporation, New York, N. Y. Wheat flour. Serial No. 599,206, May 26. Class 46.

Doppimaier, George, doing business as Roll-Rain Co., Rio Linda, Calif. Field sprinkling apparatus. Serial No. 613,402, May 26. Class 13.

Dri-Flo Manufacturing Co., Hazel Park, Mich. Fountain pens, fountain brush pens, and nibs for fountain pens. Serial No. 623,186, May 26. Class 37.

Droge, Karl, Ice Cream, Brooklyn, N. Y. Ice Cream. Serial No. 616,086, May 26. Class 46.

Durable Sportswear Company, Inc., Lynbrook, N. Y. Men's and boys' jackets and coats. Serial No. 624,332, May 26. Class 39.

Duthie & Company: *See*—
Duthie, Thomas A.

Duthie, Thomas M., doing business under the assumed business name of Duthie & Company, Portland, Oreg. Fresh apples and pears. Serial No. 600,823, May 26. Class 46.

Electrolux Corporation, Dover, Del., and New York, N. Y. Removable inserts for vacuum cleaner suction nozzles. Serial No. 624,594, May 26. Class 21.

Evis Manufacturing Company, San Francisco, Calif. Fluid treating pipe line and entrance fittings. Serial No. 625,470, May 26. Class 13.

Faber-Castell, A. W., Pencil Co. Inc., Newark, N. J. Rulers, calculating rules, T-squares and triangles. Serial No. 638,761, May 26. Class 26.

Fairchild Publications, Inc., New York, N. Y. Newspaper column or columns. Serial No. 639,214, May 26. Class 38.

Fairmont Foods Company, Omaha, Nebr. Butter, fresh frozen and dried eggs, fluid milk, etc. Serial No. 618,697, May 26. Class 46.

Fanny Farmer Candy Shops, Inc., Rochester, N. Y. Maple syrup, assorted fruits in corn syrup, raspberry jam, etc. Serial No. 640,676, May 26. Class 46.

Findlater Mackie, Todd, & Co, Limited, London, England. Sherry wine. Serial No. 622,254, May 26. Class 47.

Fine Foods, Inc., Seattle, Wash. Canned fruits, canned fruit cocktail, canned applesauce, etc. Serial No. 608,539, May 26. Class 46.

Flavor Corporation of America, Chicago, Ill. Concentrated food flavoring material. Serial No. 629,161, May 26. Class 46.

Fleischman, M. R., Co., San Francisco, Calif. Ladies' sportswear. Serial No. 617,790, May 26. Class 39.

Ford Motor Company Limited, London, England. Passenger automobiles and structural parts thereof. Serial Nos. 635,639–40, May 26. Class 19.

Gelle Freres: *See*—
Parfumerie Gelle Freres, Societe a Responsabilite Limitee.

General American Transportation Corporation, Chicago, Ill. Maintaining and repairing of railroad freight and express cars, etc. Serial No. 635,760, May 26. Class 103.

General Sewing Corp., New York, N. Y. Suitcases and garment bags. Serial No. 628,150, May 26. Class 3.

Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Plastic injection molding machines, rotary tables, boring tools, etc. Serial No. 614,383, May 26. Class 23.

Graton & Knight Company, Worcester, Mass. Children's cowboy and cowgirl outfits, consisting of holster sets, etc. Serial No. 633,845, May 26. Class 22.

Green Thumb Products, Toledo, Ohio. Fertilizer, soil conditioners, etc. Serial No. 635,474, May 26. Class 10.

Greif, L., & Bro., Inc., Baltimore, Md. Men's suits, topcoats, overcoats, etc. Serial No. 639,368, May 26. Class 39.

Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butcher's paper. Serial No. 603,233, May 26. Class 37.

Haenonis Indian Dancers, Glenbrook, Conn. Stimulating interest in the history, civilization, customs, culture, trades and skills of the American Indian, etc. Serial No. 604,888, May 26. Class 100.

Halben Food Manufacturing Co., Inc., St. Louis, Mo. Barbecue sauce, chop suey sauce, French dressing, etc. Serial No. 615,550, May 26. Class 46.

Hanes Hosiery Mills Company, Winston-Salem, N. C. Women's hosiery. Serial No. 635,594, May 26. Class 39.

Harrower Laboratory, Inc., The, Jersey City, N. J. Medicinal preparation.. Serial No. 639,042, May 26. Class 18.

Hartman, Philip F., doing business as Sno-Frozen Products Co., Redwood City, Calif. Processed fresh frozen baby foods. Serial No. 621,265, May 26. Class 46.

Harvey Brothers, Swanton, Md. Potatoes. Serial No. 637,276, May 26. Class 46.

Hercules Cycle and Motor Company Limited, The, Birmingham, England. Pedal cycles and parts therefor. Serial No. 634,740, May 26. Class 19.

Hickmott Canning Co., Antioch, Calif. Canned fruits, canned vegetables and canned deciduous fruit juices. Serial No. 601,499, May 26. Class 46.

Hill, Norman W., doing business as M. J. Laughery Company, Pittsburgh, Pa. Tea, coffee, vinegar, etc. Serial No. 629,314, May 26. Class 46.

Hillman Motor Car Company Limited, Coventry, England. Power units. Serial No. 627,187, May 26. Class 23.

Hood, Arthur J., Reno, Nev. Barbecue units. Serial No. 634,412, May 26. Class 34.

House of Huston, Inc., Miami, Fla. Bird seed. Serial No. 637,256, May 26. Class 46.

Hughes Tool Company, Houston, Tex. Welding tool joints to drill pipe. Serial No. 593,596, May 26. Class 106.

Hurlbut Paper Company, South Lee, Mass. Drawing paper. Serial No. 612,075, May 26. Class 37.

Hygeia Milk Products Co., Harlingen, Tex. Ice cream bar. Serial No. 623,837, May 26. Class 46.

Impulse Items, New York, N. Y. Women's and girls' hats. Serial No. 616,855, May 26. Class 39.

Inflico Incorporated, Tucson, Ariz. Pneumatically operated instruments. Serial No. 612,863, May 26. Class 26.

Ing. C. Olivetti & C. S. p. A., Ivrea, Italy. Calculating machines and parts thereof. Serial No. 623,961, May 26. Class 26.

Johns-Manville Corporation, New York, N. Y. Plastic electrical tape. Serial No. 608,043, May 26. Class 21.

Jonathan Belt Co. Incorporated, New York, N. Y. Belts. Serial No. 634,788, May 26. Class 39.

Kasco Mills, Inc., Toledo, Ohio. Steer feeds. Serial No. 633,454, May 26. Class 46.

Kay Manufacturing Corporation, Brooklyn, N. Y. Reclining chair mechanisms and parts therefor. Serial No. 637,448, May 26. Class 32.

Killian, Tom, Inc., Denver, Colo. Auto-motive pistons and machines. Serial No. 630,938, May 26. Class 23.

Kohnstamm, H., & Co., Inc., New York, N. Y. Food colors. Serial No. 640,040, May 26. Class 46.

Kotkins, Henry L., doing business as Skyway Luggage Company, Seattle, Wash. Combined luggage cover and carrying bag. Serial No. 606,531, May 26. Class 3.

Lady Baker, Inc., Chicago, Ill. Prepared custards, cake and pastry frostings, jams, jellies and fruit preserves. Serial No. 624,837, May 26. Class 46.

Laughery, M. J., Company: *See*—
Hill, Norman W.

Layton, George L., doing business under the trading style of M. L. & G. L. Layton, London, England. Periodical publications. Serial No. 610,840, May 26. Class 38.

Layton, M. L. & G. L.: *See*—
Layton, George L.

Lectrolite Corporation, Defiance, Ohio. Box wrenches, combination box and open end wrenches, etc. Serial No. 612,405, May 26. Class 23.

Lee, H. D., Company, Incorporated, The, Kansas City, Mo. Men's and boys' waistband overalls, bib overalls, overall jackets, etc. Serial No. 632,482, May 26. Class 39.

Le-Nor Undergarment Corp., New York, N. Y. Children's undergarments. Serial No. 642,105, May 26. Class 39.

Leo Products: *See*—
Sautter, Karl H.

Lesley, Jerry P., Sunset, S. C. Men's and women's knitted shirts. Serial No. 637,381, May 26. Class 39.

"Liberty Mills": *See*—
Burrus Mills, Incorporated.

Lobella, Inc., Hanover, Pa. Women's and children's dresses, blouses, skirts, shorts, etc. Serial No. 636,530, May 26. Class 39.

Long, William H., Kansas City, Mo. Novelty calendars. Serial No. 636,645, May 26. Class 38.

Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Men's knitted sweaters and basque shirts. Serial No. 621,522, May 26. Class 39.

Lovial Bros., New York, N. Y. Navy uniforms. Serial No. 634,376, May 26. Class 39.

Lucas Products Corporation, Toledo, Ohio. Preparation for use as an antiseptic, germicide, and deodorant. Serial No. 633,776, May 26. Class 18.

Lummus Company, The, New York, N. Y. Construction of chemical plants and petroleum refining process units and associated equipment. Serial No. 630,849, May 26. Class 103.

Mackintosh, John, & Sons Limited, Halifax, England. Mint-flavoured candy. Serial No. 635,228, May 26. Class 46.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Volume controls, rheostats, variable resistance devices. Serial No. 615,335, May 26. Class 21.

Marcantel Medicine Co. Inc., Elton, La. Vitamin tonic, cough syrup, medicinal mineral oil, and rubbing alcohol. Serial No. 628,591, May 26. Class 18.

Marco Pet Food Co., Huntington Park, Calif. Canned dog and cat food. Serial Nos. 640,641–2, May 26. Class 46.

Marsh Wall Products, Inc., Dover, Ohio. Plastic surface material. Serial Nos. 625,682–3, May 26. Class 12.

Mason, William G., doing business as Triangle Manufacturing Company, Detroit, Mich. Sump pump. Serial No. 604,647, May 26. Class 23.

Massey-Harris Company, The, Racine, Wis. Farm tractors. Serial No. 636,721, May 26. Class 23.

Matera and Kelly, New York, N. Y. Comic strip. Serial No. 606,622, May 26. Class 38.

McCord Company, San Francisco, Calif. Daily publication. Serial No. 614,667, May 26. Class 38.

McCoy, Kenneth R., doing business as The Real McCoy Products Co., St. Paul, Minn. Salad dressing. Serial No. 629,306, May 26. Class 46.

Mergenthaler Linotype Company, Brooklyn, N. Y. Metal casting machines. Serial No. 614,707, May 26. Class 23.

Mergenthaler Linotype Company, Brooklyn, N. Y. Metal casting machines. Serial No. 621,210, May 26. Class 23.

Meridian Distributors: *See*—
Riddle Purchasing Company.

Meyer, R. N., Co.: *See*—
Meyer, Ruth N.

Meyer, Ruth N., doing business as R. N. Meyer Co., Beverly Hills, Calif. Food seasoning. Serial No. 640,865, May 26. Class 46.

Meyers, Clarence L., & Co., Philadelphia, Pa. Cotton yarn. Serial No. 639,765, May 26. Class 43.

Middleby, Joseph, Jr., Inc., Boston, Mass. Glacé cherries, marshmallows, fruit jellies, etc. Serial No. 553,968, May 26. Class 46.

Miller and Rhoads, Incorporated, Richmond, Va. Fireplace equipment. Serial No. 623,114, May 26. Class 34.

Morita Bros., Anaheim, Calif. Fresh fruits and vegetables. Serial No. 629,212, May 26. Class 46.

Moyer, Walter W., Company, Ephrata, Pa. Men's underwear. Serial No. 610,575, May 26. Class 39.

Moyer, Walter W., Company, Ephrata, Pa. Women's hosiery and underwear. Serial No. 610,576, May 26. Class 39.

Newmann, Joseph, New York, N. Y. Satchels, handbags, billfolds, etc. Serial No. 627,076, May 26. Class 3.

Nonaka, F. M., & Co.: *See*—
Nonaka, Frank M.

Nonaka, Frank M., doing business as F. M. Nonaka & Co., San Francisco, Calif. Rice and tea. Serial No. 640,890, May 26. Class 46.

Orlando Daily Newspapers, Inc., Orlando, Fla. Daily newspaper. Serial Nos. 637,322–3, May 26. Class 38.

Orlando Daily Newspapers, Inc., Orlando, Fla. Sunday newspaper. Serial No. 637,324, May 26. Class 38.

Osborne Company, The, Clifton, N. J. Wallets, billfolds, key holders, etc. Serial No. 633,863, May 26. Class 3.

Ozenfeld Leathercraft Company, St. Louis, Mo. Leather purses. Serial No. 628,290, May 26. Class 3.

Ozark Leather Company: *See*—
Stein, C. N.

Pacific Wire Products Company, Compton, Calif. Bronze, aluminum, and steel insect screen cloth, etc. Serial No. 636,535, May 26. Class 13.

Parfumerie Gelle Freres, Societe a Responsabilite Limitee, and trading as Gelle Freres, Paris, France. Perfume, cologne, toilet water. Serial No. 594,018, May 26. Class 51.

Park and Pollard Company, Inc., Buffalo, N. Y. Dairy feeds. Serial No. 635,783, May 26. Class 46.

Parkway Crushed Fruit Company, Louisville, Ky. Chocolate flavored syrup, black walnuts in syrup, butterscotch, etc. Serial No. 581,006, May 26. Class 26.

Patterson Chocolates Limited, Toronto, Ontario, Canada. Chocolate bars. Serial No. 517,088, May 26. Class 46.

Periwinkle, Inc., New York, N. Y. Certain garments for children. Serial No. 632,954, May 26. Class 39.

Perma-Stamp Products Corporation, New York, N. Y. Pre-inked plastic stamps. Serial No. 633,117, May 26. Class 23.

Persons, Ralph H., doing business as American Vacuum Company, Chicago, Ill. Electrically operated vacuum cleaner. Serial No. 621,575, May 26. Class 21.

Pichel Inc., New York, N. Y. Handbags and overnight cases. Serial No. 634,711, May 26. Class 3.

Pincus Bros. Incorporated, Philadelphia, Pa. Men's suits, sportcoats, slacks, topcoats, etc. Serial No. 629,121, May 26. Class 39.

Plastic Film Products Corporation, Akron, Ohio. Plastic film goods. Serial No. 622,458, May 26. Class 42.

Plymouth Undergarment Co., New York, N. Y. Women's, misses', and children's undergarments. Serial No. 639,952, May 26. Class 39.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Electrical apparatus. Serial No. 615,188, May 26. Class 21.

Poli, Lectra M., Sula, Mont. Hot cake flour. Serial No. 639,655, May 26. Class 46.

Potash Rock Co. of America, Lithonia, Ga. Crushed granite soil conditioner. Serial No. 635,716, May 26. Class 10.

Powdered Metal Products Corporation of America, Franklin Park, Ill. Gear housings, rack slides, spline gears, etc. Serial No. 583,709, May 26. Class 23.

Qualcast Limited, Derby, England. Metal castings. Serial No. 628,873, May 26. Class 14.

Quality Courts United, Inc., St. Petersburg, Fla. Travel guides. Serial No. 630,016, May 26. Class 38.

Quincy Compressor Co., Quincy, Ill. Air compressors. Serial No. 619,519, May 26. Class 23.

Randall Manufacturing Company, Inc., New York, N. Y. Machines for removing grease from metal articles, machines for washing metal articles, etc. Serial No. 631,311, May 26. Class 23.

Real McCoy Products Co., The: *See*—
McCoy, Kenneth R.

Reg. N. Bozer Company, The, assignee: *See*—
Canadian Wallpaper Manufacturers Limited.

Ricci Laboratories, Inc., New York, N. Y. Balanced vitamin and amino acid supplement. Serial No. 624,296, May 26. Class 18.

Richards, George & Company Limited, Broadheath, near Manchester, England. Combined boring and facing machines. Serial No. 635,719, May 26. Class 23.

Rockford Machine Tool Co., Rockford, Ill. Hydraulically-operated duplicators for metal working machinery. Serial No. 619,549, May 26. Class 23.

Roethlisberger & Fils, S. A.: *See*—
Roethlisberger & Sohn A. G.

Roethlisberger & Sohn A. G., trading also as Roethlisberger & Fils, S. A., Langnau, Berne Canton, Switzerland. Cheese. Serial No. 591,638, May 26. Class 46.

Roll Rain Co.: *See*—
Doppelmaier, George.

Rosenblatt and Kahn, Inc., New York, N. Y. Children's coats, snow suits, suits, etc. Serial No. 626,266, May 26. Class 39.

Rosewell Floral Company, The, Lincoln, Nebr. Liquid plant food. Serial No. 637,503, May 26. Class 10.

Row, John W., Berrien Springs, Mich. Photographic tripod head. Serial No. 638,665, May 26. Class 26.

Russell Manufacturing Company, The, Alexander City, Ala. Men's and boys' apparel and sportswear. Serial No. 621,786, May 26. Class 39.

S. A. Latterie Industriali Riunite L. I. R., Robbio, Lomellina, Italy. Cheese. Serial No. 563,368, May 26. Class 46.

Sabrett Food Products, Corp., Jersey City, N. J. Frankfurters. Serial No. 630,682, May 26. Class 46.

Saco-Lowell Shops, Boston, Mass. Textile machinery. Serial No. 631,024, May 26. Class 23.

Sanitary Knitting Company, Grand Rapids, Mich. Infants', children's, boys' and girls' knit outerwear. Serial No. 628,830, May 26. Class 39.

Sautter, Karl H., doing business as Leo Products, Chicago, Ill. Laxative preparation. Serial No. 621,580, May 26. Class 18.

Scharzel, Arthur M., Westfield, N. J. Topcoats, overcoats, raincoats, etc. Serial No. 608,327, May 26. Class 39.

Schaub, Fred H., Engineering Co., Chicago, Ill. Linings of resinous character to protect metallic surfaces. Serial No. 634,218, May 26. Class 12.

Schenley Laboratories, Inc., New York, N. Y. Antibiotic feed-supplements. Serial No. 637,402, May 26. Class 18.

Schoenburg Bros. Produce Company: *See*—
Schoenburg, Paul P.

Schoenburg, Paul P., doing business as Schoenburg Bros. Produce Company, Salinas, Calif. Fresh vegetables. Serial No. 638,780, May 26. Class 46.

Schwartz, Wm., & Co., Inc., Philadelphia, Pa. Children's jackets, coats, and pants. Serial No. 634,005, May 26. Class 39.

Schwarz Laboratories, Inc., New York, N. Y. Adenosine triphosphoric acid. Serial No. 625,759, May 26. Class 18.

Sears, Roebuck and Co., Chicago, Ill. Flower boxes. Serial No. 640,586, May 26. Class 2.

Shasta Water Company, The, San Francisco, Calif. Carbonated water. Serial No. 629,127, May 26. Class 45.

Shuwall, E. & E. Co., New York, N. Y. Children's dresses. Serial No. 639,667, May 26. Class 39.

Singer Manufacturing Company, The, Elizabeth, N. J. Room heaters and fans for room heaters. Serial No. 628,573, May 26. Class 34.

Skyway Luggage Company: *See*—
Kotkins, Henry L.

Sno-Frozen Products Co.: *See*—
Hartman, Philip F.

Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., The, Detroit, Mich. Song arrangements. Serial No. 635,854, May 26. Class 38.

Square D Company, Detroit, Mich. Automatic electric circuit breakers, enclosures for automatic electric circuit breakers, etc. Serial No. 636,096, May 26. Class 21.

Stein, C. N., doing business as Ozark Leather Company, Waco, Tex. Western clothing. Serial No. 634,613, May 26. Class 39.

Sterling Engine Co., Buffalo, N. Y. Internal combustion engines. Serial No. 629,920, May 26. Class 23.

Stern Brothers, New York, N. Y. Books and greeting cards. Serial No. 639,520, May 26. Class 38.

Stevens Paper Mills, Inc., The, Westfield, Mass. Capacitor paper, coil insulation paper and condenser paper. Serial No. 591,872, May 26. Class 21.

Sunkist Growers, Inc., Los Angeles, Calif. Citrus flavored soft drinks and concentrates. Serial No. 626,009, May 26. Class 45.

Sweden Freezer Company: *See*—
Sweden Freezer Manufacturing Company.

Sweden Freezer Manufacturing Company, also doing business under the name of Sweden Freezer Company, Seattle, Wash. Ice milk and ice milk powder. Serial No. 580,757, May 26. Class 46.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 640,173, May 26. Class 42.

Taylor Instrument Companies, Rochester, N. Y. Automatic controllers for controlling temperature, etc. Serial No. 618,063, May 26. Class 26.

Treo Company, Inc., Jamaica, N. Y. Corsets, girdles, brassières and foundation garments. Serial No. 639,672, May 26. Class 39.

Treo Company, Inc., Jamaica, N. Y. Corsets, girdles, and foundation garments. Serial Nos. 639,673–4, May 26. Class 39.

Triangle Manufacturing Company: *See*—
Mason, William G.

Uni-Therm Company: *See*—
Adelt, Carl W.

United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Steel strapping and seals for flat steel strapping. Serial No. 632,963, May 26. Class 13.

United States Steel Corporation: *See*—
United States Steel Company.

Valley Evaporating Company, Yakima, Wash. Dehydrated fruits, jams, jellies, fruit preserves, etc. Serial No. 634,668, May 26. Class 46.

Vaporized Metal Coatings, Inc., New York, N. Y. Metal coated paper. Serial No. 632,703, May 26. Class 37.

Velvet Freeze, Inc., St. Louis, Mo. Pre-packed and bulk ice cream. Serial No. 618,437, May 26. Class 46.

Venus Foundation Garments, Inc., Chicago, Ill. Girdles and panty girdles. Serial No. 642,185, May 26. Class 39.

Visible Package Sales Corp., Chicago, Ill. Flexible strips for tying pliable bags. Serial No. 635,073, May 26. Class 7.

Visual Department Church of Prophecy Marker Association, Cleveland, Tenn. Motion picture films. Serial No. 636,102, May 26. Class 26.

Von Frankel-Trester Hosiery Co., Chicago, Ill. Women's and children's hosiery. Serial No. 631,768, May 26. Class 39.

Walker, Peter (Warrington), Limited, Liverpool, England. Scotch whisky. Serial No. 635,561, May 26. Class 49.

Wander Company, The, Chicago, Ill. Pharmaceutical product. Serial No. 639,297, May 26. Class 18.

Waring Products Corporation, New York, N. Y. Electrical disintegrators and mixers for producing fluid substances. Serial No. 629,404, May 26. Class 21.

Whitney, Ruby D., Chicago, Ill. Cloths. Serial No. 623,695, May 26. Class 42.

Wilkins-Rogers Milling Company, Inc., Washington, D. C. Corn meal. Serial No. 627,159, May 26. Class 46.

Williams, R. O., Co.: *See*—
Williams, Robert O.

Williams, Robert O., doing business under the name of R. O. Williams Co., Evansville, Ind. Pest extermination service. Serial No. 634,228, May 26. Class 103.

Wilson & Co., Inc., Chicago, Ill. Food. Serial No. 625,086, May 26. Class 46.

Wilton Tool Mfg. Co., Chicago, Ill. Lawn sprinklers. Serial No. 637,199, May 26. Class 13.

Winebrenner, D. E., Company, Inc., Hanover, Pa. Canned vegetables, and canned vegetable juices. Serial No. 615,429, May 26. Class 46.

Wood Shovel and Tool Company, The, Piqua, Ohio. Hand tools. Serial No. 617,221, May 26. Class 23.

Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. Serial No. 641,819, May 26. Class 46.

Yaleco Rubber Company, Inc., New Haven, Conn. Waterproof diaper covers. Serial No. 621,043, May 26. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

A. & J. Kitchen Tool Co., assignee: *See*—
A. & J. Manufacturing Co., The.

A. & J. Manufacturing Co., The, Binghamton, N. Y., assignor to A. & J. Kitchen Tool Co., to Ekco Products Company, Chicago, Ill. Kitchen tools and utensils. 298,929, renewed Nov. 15, 1952. O. G. May 26. Class 23.

Abercrombie & Fitch Company, New York, N. Y. Beach mats. 574,842, May 26; Serial No. 597,309, published Mar. 3, 1953. Class 22.

Advance Car Mover Company, Inc., Appleton, Wis. Railroad car moving tool. 574,884, May 26; Serial No. 617,523, published Feb. 3, 1953. Class 23.

Advance Glove Manufacturing Company, Detroit, Mich. Woven fabric gloves. 574,986, May 26; Serial No. 632,107, published Mar. 3, 1953. Class 39.

Advance Glove Manufacturing Company, Detroit, Mich. Palm and finger stall protective covers for gloves. 574,989, May 26; Serial No. 632,460, published Mar. 3, 1953. Class 39.

Albany Billiard Ball Company, Albany, N. Y. Billiard balls. 574,829, May 26; Serial No. 587,226, published Feb. 24, 1953. Class 22.

Albatros Superfosfaatfabrieken N. V.: *See*—
Naamlooze Vennootschap Vereenigde Chemische Fabrieken.

Aldens, Inc., Chicago, Ill. Electric laundry washing machines, electric ironers, electric portable clothes washers, etc. 574,934, May 26; Serial No. 625,387, published Mar. 10, 1953. Class 24.

Allied Laboratories, Inc., Kansas City, Mo. Diffusible ointment base for medicinals. 574,937, May 26; Serial No. 632,141, published Feb. 10, 1953. Class 18.

Allied Pharmetics Co.: *See*—
Feldman, Louis F.

Allube Corporation, Glendale, Calif. Liquid and solid lubricants. 574,956, May 26; Serial No. 628,248, published Feb. 17, 1953. Class 15.

Alum-No Tape Venetian Blind Corporation, Opa Locka, Fla. Venetian blinds. 574,939, May 26; Serial No. 625,780, published Mar. 10, 1953. Class 32.

American Can Company, New York, N. Y. Advertising cases and cabinets. 301,556, renewed Mar. 7, 1953. O. G. May 26. Class 32.

American Education Press: *See*—
Wesleyan University Press Incorporated, The.

American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co.; Carson City, Nev., and Chicago, Ill. Cabinets for dispensing paper towels. 574,821, May 26; Serial No. 580,868, published Feb. 17, 1953. Class 2.

American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls and Elmira, N. Y., by Moore Business Forms, Inc., Niagara Falls, N. Y. Autographic registers. 299,928, Jan. 3, 1933. Republished May 26. Class 23.

American Scientific Laboratories, Inc., Madison, Wis. Insecticide. 575,005, May 26; Serial No. 633,700, published Mar. 3, 1953. Class 6.

American Writing Paper Company, by American Writing Paper Corporation, Holyoke, Mass. Writing and printing paper. 91,543, May 13, 1913. Republished May 26. Class 37.

American Writing Paper Corporation: *See*—
American Writing Paper Company.

Anaconda Wire and Cable Company, New York, N. Y. Electrical coils. 304,058, renewed June 20, 1953. O. G. May 26. Class 21.

Anaconda Wire and Cable Company, New York, N. Y. Electrical coils. 304,309, renewed June 27, 1953. O. G. May 26. Class 21.

Anderson-Nichols & Company, Boston, Mass. Consulting engineering and architectural services. 575,033, May 26; Serial No. 610,663, published Mar. 3, 1953. Class 100.

Anson, Incorporated, Providence, R. I. Wallets. 574,854, May 26; Serial No. 604,136, published Mar. 3, 1953. Class 3.

Arkwright, Incorporated, New York, N. Y. Radio and television receiving sets, electric irons, electric toasters, etc. 574,960, May 26; Serial No. 629,713, published Feb. 24, 1953. Class 21.

Arkwright, Incorporated, New York, N. Y. Cutlery. 574,974, May 26; Serial No. 630,303, published Feb. 3, 1953. Class 23.

Armor Laboratories, Inc., Glendale, Calif. Waterproof paint coating. 444,773, May 26; Serial No. 481,039, published Jan. 6, 1953. Class 16.

Armour and Company, doing business under the trade style Armour Creameries, Chicago, Ill. Frozen turkeys. 574,940, May 29; Serial No. 625,955, published Feb. 24, 1953. Class 46.

Armour Creameries: *See*—
Armour and Company.

Arnold, Schwinn & Co., Chicago, Ill. Bicycles and parts thereof. 574,813, May 26; Serial No. 568,564, published Feb. 24, 1953. Class 19.

Associated Kentucky Distilleries Co.: *See*—
Dennehy, Thomas C.

Associated Merchandising Corporation, The, New York, N. Y. Clothes hampers. 574,934, May 26; Serial No. 628,029, published Feb. 17, 1953. Class 2.

Atlas Fabrics Corporation: *See*—
Goldman, Charles.

Atlas Mills: *See*—
Goldman, Charles.

Automatic Liquid Meter Co.: *See*—
Quibert, Francis W.

Ballantine, P., & Sons, Newark, N. J., to Pabst Brewing Company, Chicago, Ill. Malt syrup. 302,388, renewed Apr. 18, 1953. O. G. May 26. Class 46.

Barlow-Maney Laboratories, Incorporated, Cedar Rapids, Iowa. Cardiac drug. 574,923, May 26; Serial No. 623,268, published Feb. 10, 1953. Class 18.

Bath Tyre Service Depot Limited, Kensington, Bath, Somerset, England. Flower pots and dish-like flower pot holders. 574,893, May 26; Serial No. 619,068, published Feb. 17, 1953. Class 2.

Beaumont Rice Mills, Beaumont, and El Campo, to Beaumont Rice Mills, Beaumont, Tex. Rice. 92,390, re-renewed July 8, 1953. O. G. May 26. Class 46.

Beaumont Rice Mills, Beaumont and El Campo, to Beaumont Rice Mills, Beaumont, Tex. Rice. 92,509, re-renewed July 15, 1953. O. G. May 26. Class 46.

Beier, Mrs., William F., Kenmore, to Mrs. W. F. Beier, Snyder, N. Y. Candy. 301,440, renewed Feb. 28, 1953. O. G. May 26. Class 46.

Beltx Corporattoon, St. Louis, Mo. Non-corrosive metal adjustment slides, fasteners, and rings for use on sanitary belts. 574,845, May 26; Serial No. 598,348, published Dec. 30, 1952. Class 40.

Bendix Aviation Corporation, Detroit, Mich. Combined loud speaker and amplifier units. 574,915, May 26; Serial No. 622,525, published Feb. 24, 1953. Class 21.

Bendix Aviation Corporation, Detroit, Mich. Indicating and/or recording instruments, controlling instruments, anemographs, etc. 574,908, May 26; Serial No. 633,244, published Mar. 10, 1953. Class 26.

Benson, N. P., Optical Company, Minneapolis, Minn. Ophthalmic lenses. 574,919, May 26; Serial No. 623,039, published Jan. 27, 1953. Class 26.

Benson-Nilen Laboratories, Inc., New York, N. Y. Antiseptic and anti-bacterial solution for treatment of textiles. 575,023, May 26; Serial No. 636,335, published Mar. 3, 1953. Class 6.

Berjon Company, The, Memphis, Tenn. Liquid analgesic compound. 575,028, May 26; Serial No. 637,857, published Feb. 10, 1953. Class 18.

Berkman, Irving W., doing business as Berkman Paper Co., New York, N. Y. Paper napkins. 574,849, May 26; Serial No. 600,464, published Dec. 30, 1952. Class 37.

Berkman Paper Co.: *See*—
Berkman, Irving W.

Better Products Co., Portland, Oreg. French dressing, sweet pickles, sandwich spread, etc. 574,901, May 26; Serial No. 620,299, published Feb. 24, 1953. Class 46.

Biltmore Paper Co., Inc., The, to Biltmore Tissue Corporation, New York, N. Y. Toilet paper. 301,929, renewed Mar. 21, 1953. O. G. May 26. Class 37.

Biltmore Tissue Corporation: *See*—
Biltmore Paper Co., Inc., The.

Bioresearch Laboratories: *See*—
Chlego, Bernard.

Bloch Bros., to Bloch Bros. (Distillers) Limited, Glasgow, Scotland. Whiskey. 301,286, renewed Feb. 21, 1953. O. G. May 26. Class 49.

Bloch Bros., to Donald Mackenzie Distillers Limited, Glasgow, Scotland. Whiskey. 301,288, renewed Feb. 21, 1953. O. G. May 26. Class 49.

Bloch Bros., to A. Gillies & Co. (Distillers) Limited, Glasgow, Scotland. Whiskey. 301,290, renewed Feb. 21, 1953. O. G. May 26. Class 49.

Bloch Bros., to A. Gillies & Co. (Distillers) Limited, Glasgow, Scotland. Whiskey. 301,298, renewed Feb. 28, 1953. O. G. May 26. Class 49.

Bloch Bros., to Bloch Bros. (Distillers) Limited, Glasgow, Scotland. Whiskey. 302,030, renewed Mar. 21, 1953. O. G. May 26. Class 49.

Bloch Bros. (Distillers) Limited: *See*—
Bloch Bros.

Boehme, H. O., Inc., New York, N. Y. Communication and signaling devices, electric circuit controls. 574,961, May 26; Serial No. 628,841, published Feb. 24, 1953. Class 21.

Boggs, Samuel W., Chevy Chase, Md., to Freel Research Laboratories, Boulder, Colo. Printed horological charts. 360,877, renewed Feb. 14, 1953. O. G. May 26. Class 38.

Booth Radio & Television Stations, Inc., Detroit, Mich. Radio program broadcasting. 575,037, May 26; Serial No. 624,799, published Mar. 3, 1953. Class 104.

Borden Company, The, New York, N. Y. Lactalbumin. 575,042, May 26; Serial No. 573,290. Class 46.

Boron Bros., Los Angeles, Calif. Dietary supplement. 574,894, May 26; Serial No. 619,154, published Feb. 17, 1953. Class 18.

Bostwick Laboratories, Inc., Bridgeport, Conn. Room deodorant. 575,025, May 26; Serial No. 637,109, published Mar. 3, 1953. Class 6.

Bowers, Edward C., and C. L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y., to The Colorado Fuel and Iron Corporation, Denver, Colo. Door springs. 303,352, renewed May 23, 1953. O. G. May 26. Class 13.

Boye Needle Company, The, Chicago, Ill. Sewing and knitting gauge. 574,980, May 26; Serial No. 631,537, published Mar. 10, 1953. Class 26.

Brady & Schmidgall, Vienna, to Dr. A. & L. Schmidgall, Bludenz, Austria. Purgament and preparation for treating obesity. 301,536, renewed Mar. 7, 1953. O. G. May 26. Class 18.

Briardale Co., San Francisco, Calif. Washing ammonia and liquid bluing. 503,519, Oct. 26, 1948. Corrected. O. G. May 26. Class 6.

Bridgeport Brass Company, Bridgeport, Conn. Space deodorant. 574,815, May 26; Serial No. 571,402, published Feb. 10, 1953. Class 6.

Broden, Maurice, doing business as Broden's Drugs, Buchanan, N. Y. Medicinal preparation. 574,990, May 26; Serial No. 632,713, published Feb. 10, 1953. Class 18.

Broden's Drugs: *See*—
Broden, Maurice.

Brown & Bigelow, St. Paul, Minn. Monthly periodical. 92,944, re-renewed Aug. 12, 1953. O. G. May 26. Class 38.

Burlington Mills Corporation: *See*—
Eiseman, Alfred S.
Migel, M. C., & Co.

Byron, Inc., Washington, D. C. Duplicating prints of originals of 16 MM. colored motion picture film. 575,058, May 26; Serial No. 610,541. Class 106.

C. Schous Fabriker A/S, Copenhagen, Denmark. Grooved phonograph records and non-electrical and non-magnetized recording wire and recording tape, etc. 574,855, May 26; Serial No. 604,336, published Mar. 10, 1953. Class 36.

Cahin Crafts, Inc., Dalton, Ga. Viscose rayon carpet yarn. 575,010, May 26; Serial No. 634,139, published Mar. 3, 1953. Class 43.

Calderon, Victor M., Co., Inc., New York, N. Y. Canned sardines. 352,951, Dec. 21, 1937. Republished May 26. Class 46.

Caldwell, Robert, Lakin, Kans. Mechanical livestock otter and insecticide applicator. 574,949, May 26; Serial No. 627,319, published Feb. 3, 1953. Class 23.

California Fruit Exchange, Sacramento, Calif. Fresh cherries, apricots, peaches, etc. 92,532, re-renewed July 15, 1953. O. G. May 26. Class 46.

Callaway Mills Company, La Grange, Ga. Hose and belt cord. 575,013, May 26; Serial No. 634,297, published Mar. 3, 1953. Class 7.

Calresin Corporation, Culver City, by Calresin Corporation, Arcadia, Calif. Liquid water soluble, polymerizable, phenolic casting resin composition. 441,172, Oct. 26, 1948. Republished May 26. Class 1.

Cameron, A. S., Steam Pump Works, Phillipsburg, N. J., and New York, N. Y., assignor to Ingersoll-Rand Company, Phillipsburg, N. J. Centrifugal pumps. 574,879, May 26; Serial No. 616,939, published Feb. 10, 1953. Class 23.

Capital City Products Company, The, Columbus, Ohio. Refined pure vegetable oil. 304,832, renewed July 18, 1953. O. G. May 26. Class 46.

Carpe, Edith H.: *See*—
Hepner, Raymond.

Carreras Limited, London, England. Cigarettes. 574,864, May 26; Serial No. 610,200, published Mar. 10, 1953. Class 17.

Carter Products, Inc., New York, N. Y. Deodorant tablet. 574,900, May 26; Serial No. 619,872, published Feb. 10, 1953. Class 18.

Casco Products Corporation, Bridgeport, Conn. Room deodorants. 574,816, May 26; Serial No. 573,355, published Feb. 10, 1953. Class 6.

Champion Spark Plug Company, to Champion Spark Plug Company, Toledo, Ohio. Spark plugs. 92,949–50, renewed Aug. 12, 1953. O. G. May 26. Class 21.

Chicago Bridge & Iron Company, Chicago, Ill. Composite metal plates. 574,908, May 26; Serial No. 621,257, published Mar. 3, 1953. Class 14.

Chlego, Bernard, doing business under the name of Bioresearch Laboratories, Newark, N. J. Preparation that can be used for external application for bed sores and other external infections, etc. 574,819, May 26; Serial No. 575,243, published Oct. 7, 1952. Class 18.

Children's International Summer Villages, Inc., Cincinnati, Ohio. Sponsoring of visits of groups of foreign children to the United States, etc. 575,034, May 26; Serial No. 620,459, published Mar. 3, 1953. Class 100.

Chilton Laboratories, Inc., Montclair, N. J. Tablets for internal use to relieve coughs, etc. 574,993, May 26; Serial No. 632,874, published Feb. 10, 1953. Class 18.

Chi-Namel Paint & Varnish Co., The: *See*—
Minnesota Paints, Inc.

Chinese Food Cannery of America, Inc., East Hartford, Conn. Chicken chop suey, chicken chow mein, noodles, etc. 574,942–3, May 26; Serial Nos. 626,310–11, published Mar. 3, 1953. Class 46.

Christie & Hoover, Houston, to Galveston-Houston Breweries, Inc., Galveston, Tex. Malt beverages. 301,299, renewed Feb. 28, 1953. O. G. May 26. Class 48.

Christie & Hoover, Houston, to Galveston-Houston Breweries, Inc., Galveston, Tex. Malt extracts and malt syrups for food purposes. 301,774, renewed Mar. 14, 1953. O. G. May 26. Class 46.

Clag Aktiengesellschaft, Schaffhausen, Switzerland. Hemorrhoidal suppositories. 574,925, May 26; Serial No. 623,948, published Feb. 10, 1953. Class 18.

Clarite Battery, Inc., Salt Lake City, Utah. Electric storage batteries and component parts thereof. 574,926, May 26; Serial No. 624,174, published Feb. 24, 1953. Class 21.

Clear Spring Distilling Co.: *See*—
Dennehy, Thomas C.

Conke, Charles F., New Augusta, Ind. Hand operated electric drills. 574,912, May 26; Serial No. 621,866, published Feb. 24, 1953. Class 21.

Colorado Fuel and Iron Corporation, The: *See*—
Bowers, Edward C., and C. L. Feldman.

Colorado Milling & Elevator Co., The, doing business under the style name of The Wilson Flour Mills, Denver, Colo., and Wilson, Kans. Wheat flour. 575,056, May 26; Serial No. 637,114. Class 46.

Commerce Oil Corporation, Warren, Pa. Lubricating oils and petroleum waxes. 574,874, May 26; Serial No. 613,905, published Feb. 17, 1953. Class 15.

Continental Cashand Company, Evanston, Ill. Bill holding and dispensing unit. 574,868, May 26; Serial No. 612,592, published Mar. 10, 1953. Class 13.

Continental Copper & Steel Industries, Inc., Holyoke, Mass., and New York, N. Y. Plows. 574,896, May 26; Serial No. 619,447, published Feb. 3, 1953. Class 23.

Continental Copper & Steel Industries, Inc., Holyoke, Mass., and New York, N. Y. Plows. 574,897, May 26; Serial No. 619,450, published Jan. 20, 1953. Class 23.

Convoy, Incorporated, Canton, Ohio. Filing cases. 574,978, May 26; Serial No. 631,147, published Mar. 10, 1953. Class 32.

Cooperative Citrus Association: *See*—
Exeter Orange Growers Association.

Cope Brothers: *See*—
Cope, John F.

Cope, John F., doing business as Cope Brothers, Manheim, Pa. Frozen fresh yellow sweet corn; dried sweet corn, etc. 575,054, May 26; Serial No. 632,243. Class 46.

Crawford Fitting Company, Cleveland, Ohio. Tube couplings. 575,048, May 26; Serial No. 613,705. Class 13.

Creamette Company, The: *See*—
Mother's Macaroni Company.

Crown Central Petroleum Corporation: *See*—
Nason, R. N., & Co.

Cudahy Packing Co., The, Chicago, Ill., and South Omaha, Nebr., to The Cudahy Packing Company, Chicago, Ill. Lard. 40,209, re-renewed Apr. 28, 1953. O. G. May 26. Class 46.

Cudahy Packing Company, The: *See*—
Cudahy Packing Co., The.

Davis, Aaron, Harwichport, Mass. Weather measuring instruments and indicators. 574,824, May 26; Serial No. 583,680, published Oct. 7, 1952. Class 26.

Decatur Pump Company, Decatur, Ill. House organ. 575,011, May 26; Serial No. 634,245, published Mar. 3, 1953. Class 38.

Dennehy, Thomas C., doing business as Clear Spring Distilling Co., Chicago, Ill., to Associated Kentucky Distilleries Co., Newport, Ky. Whisky. 305,189, renewed Aug. 8, 1953. O. G. May 26. Class 49.

Desbergers Limited, Montreal, Quebec, Canada. Medicinal preparations. 574,996, May 26; Serial No. 632,979, published Mar. 3, 1953. Class 18.

Des Moines Co-Operative Dairy, Des Moines, Iowa. Butter and other dairy products. 574,876, May 26; Serial No. 615,888, published Feb. 24, 1953. Class 46.

Dexter, C. H., & Sons, to C. H. Dexter & Sons, Incorporated, Windsor Locks, Conn. Writing, printing, and tissue paper. 88,555–6, re-renewed Oct. 1, 1952. O. G. May 26. Class 37.

Dexter, C. H., & Sons, Incorporated: *See*—
Dexter, C. H., & Sons.

Dulaney, John H., & Son, Inc., Fruitland, Md. Frozen garden peas. 575,044, May 26; Serial No. 579,808. Class 46.

Dutchess Underwear Corporation, New York, N. Y. Ladies' wearing apparel. 575,014–15, May 26; Serial Nos. 634,635–6, published Mar. 3, 1953. Class 39.

Eagle Paint & Varnish Works, Inc., Long Island City, N. Y. Ready-mixed flat paint. 574,838, May 26; Serial No. 595,007, published Mar. 3, 1953. Class 16.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Rubber squeegee, spotting brushes, coloring brushes, etc. 575,026, May 26; Serial No. 637,174, published Feb. 24, 1953. Class 29.

Edison, Sylvan M., doing business as Sanident Company, Chicago, Ill., to Miles Laboratories, Inc., Elkhart, Ind. Denture adhesive powder. 302,793, renewed Apr. 25, 1953. O. G. May 26. Class 51.

Educational Comics, Inc., New York, N. Y. Series of literary publications. 574,977. May 26; Serial No. 630,670, published Mar. 3, 1953. Class 38.

Eiseman, Alfred S., New York, N. Y., to Burlington Mills Corporation, Greensboro, N. C. Piece goods. 304,713, renewed July 18, 1953. O. G. May 26. Class 42.

Ekco Products Company: *See*—
A. & J. Manufacturing Co., The.

Electric Tamper & Equipment Co., Ludington, Mich. Power operated vibrating machines. 574,812, May 26; Serial No. 567,395, published Dec. 30, 1952. Class 23.

Electrofilm Corporation, North Hollywood, Calif. Graphite and finely divided metallic lubricating compositions. 574,981, May 26; Serial No. 631,610, published Feb. 17, 1953. Class 15.

Electrona Corporation, The, Irvington, N. J. Solder. 574,970. May 26; Serial No. 630,062, published Mar. 10, 1953. Class 14.

Elmer Candy Company, New Orleans, La. Cereal food products. 574,985, May 26; Serial No. 632,080, published Feb. 24, 1953. Class 46.

Enchantress Foundations, Inc., New York, N. Y. Brassieres, girdles, corsets, and other foundation garments. 574,994–5, May 26; Serial Nos. 632,878–9, published Mar. 3, 1953. Class 39.

Engineers Limited Mechanical Construction Co., San Francisco, Calif. Constructing, installing, and dismantling industrial plants and equipment. 575,035, May 26; Serial No. 622,016, published Mar. 3, 1953. Class 103.

Engler Instrument Company: *See*—
Knopf Instroment Company.

Enterprise-Monkler Co. Inc., Cambridge, Mass. Mattresses, box springs, bed springs, etc. 574,826, May 26; Serial No. 585,222, published Jan. 15, 1952. Class 32.

Eureka Williams Corporation: *See*—
Williams Oil-O-Matic Heating Corporation.

Ewing, Ray, Company, The, Pasadena, Calif. Vitamin supplements. 574,906, May 26; Serial No. 621,006, published Feb. 10, 1953. Class 18.

Exeter Orang Growers Association, also doing business as Cooperative Citrus Association, Exeter, Calif. Fresh citrus fruits. 574,810, May 26; Serial No. 554,968, published Sept. 23, 1952. Class 46.

Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Cameras, camera magazines, photographic viewfinders, etc. 574,850, May 26; Serial No. 600,750, published Jan. 13, 1953. Class 26.

Feldman, Charles L.: *See*—
Bowers, Edward C., and Feldman.

Feldman, Louis J., doing business as Allied Pharmetics Co., Plainfield, N. J., assignor to Parfums Corday, Inc., New York, N. Y. Hair shampoo. 574,811, May 26; Serial No. 563,847, published Jan. 31, 1950. Class 52.

Fergusson, Alex C., Co., Philadelphia, Pa. Cleaning compounds. 297,262, Sept. 6, 1932. Republished May 26. Class 52.

Filotecnica Salmoiraghi S. A., Milan, Italy. Lenses for eye-glasses, prisms for optical use, etc. 574,853, May 26; Serial No. 601,897, published Jan. 13, 1953. Class 26.

Firestone Battery Company, to The Firestone Tire & Rubber Company, Akron, Ohio. Battery clamps, terminals, and connectors; electrical cables; etc. 299,825, renewed Dec. 27, 1952. O. G. May 26. Class 21.

Firestone Battery Company, to The Firestone Tire & Rubber Company, Akron, Ohio. Battery clamps, terminals and connectors, electrical cables, and storage battery parts, etc. 299,977, renewed Jan. 3, 1953. O. G. May 26. Class 21.

Firestone Battery Company, to The Firestone Tire & Rubber Company, Akron, Ohio. Spark plugs, storage batteries, and storage battery parts, etc. 302,945, renewed May 2, 1953. O. G. May 26. Class 21.

Firestone Tire & Rubber Company, The: *See*—
Firestone Battery Company.

Firestone Tire & Rubber Company, The, Akron, Ohio. Tire casing dusting powders. 301,397–8, renewed Feb. 28, 1953. O. G. May 26. Class 1.

Firestone Tire & Rubber Company, The, Akron, Ohio. Anti-freeze solution and rubber solvent. 301,608, renewed Mar. 7, 1953. O. G. May 26. Class 6.

Firestone Tire & Rubber Company, The, Akron, Ohio. Rubber solvent. 301,970, renewed Mar. 21, 1953. O. G. May 26. Class 6.

Firestone Tire & Rubber Company, The, Akron, Ohio. Tire covers. 303,872, renewed June 13, 1953. O. G. May 26. Class 35.

Fitzsimmons, John A., doing business as Fitzsimmons Products, Brooklyn, N. Y. External veterinary liquid preparation. 574,878, May 26; Serial No. 616,628, published Feb. 10, 1953. Class 18.

Fitzsimmons Products: *See*—
Fitzsimmons, John A.

Florin, Philip, Inc., New York, N. Y. Wallets. 574,948. May 26; Serial No. 627,179, published Mar. 3, 1953. Class 3.

Florin, Philip, Inc., New York, N. Y. Wallets. 574,953, May 26; Serial No. 627,937, published Mar. 3, 1953. Class 3.

Formfit Company, The, Chicago, Ill. Brassières, girdles, corsets, etc. 575,012, May 26; Serial No. 634,250, published Mar. 3, 1953. Class 39.

Freel Research Laboratories: *See*—
Hogge, Samuel W.

Friedberg-Grunauer Co., San Francisco, Calif. Trunks. 574,903, May 26; Serial No. 620,728, published Mar. 3, 1953. Class 3.

Fruit Products Corporation, New York, N. Y. Empty bags. 575,006, May 26; Serial No. 633,842, published Feb. 17, 1953. Class 2.

Galveston-Houston Breweries, Inc.: *See*—
Christie & Hoover.

Gardner Board and Carton Co., The, Middletown, Ohio. Paperboard. 574,882, May 26; Serial No. 617,287, published Dec. 30, 1952. Class 37.

General Foods Corporation: *See*—
La France Manufacturing Company.

General Motors Corporation, Detroit, Mich. Metal castings. 574,924, May 26; Serial No. 623,348, published Mar. 3, 1953. Class 14.

General Research and Supply Co., Grand Rapids, Mich. Prints. 574,883, May 26; Serial No. 617,289, published Feb. 17, 1953. Class 38.

General Sales Corporation, assignor to Superdisplay, Incorporated, Milwaukee, Wis. Dry food product paper and cardboard boxes. 574,863, May 26; Serial No. 609,175, published Feb. 24, 1953. Class 2.

Getteifinger, Henry F., & Sons, Bradford, Ind. Popcorn. 575,032, May 26; Serial No. 628,151. Class 46.

Gevaert Photo-Producten N. V.: *See*—
Gevaert Photo-Producten, Naamlooze Vennootschap (Société Anonyme Photo-Produits Gevaert).

Gevaert Photo-Producten, Naamlooze Vennootschap (Société Anonyme Photo-Produits Gevaert), Oude-God, near Antwerp, to Gevaert Photo-Producten N. V., Mortsel, Belgium. Sensitized photographic papers, plates, films, etc. 298,975, renewed Nov. 15, 1952. O. G. May 26. Class 26.

Gewerkschaft Eisenhütte Westfalia, Wethmar, near Lunen, Westphalia, Germany. Mining coal planers, mining chutes, coal conveyors, etc. 574,822, May 26; Serial No. 580,934, published Feb. 3, 1953. Class 23.

Gibson, A. C., Co. Inc., Buffalo, N. Y. Stencils. 574,814, May 26; Serial No. 568,727, published Dec. 30, 1952. Class 37.

Gillies, A., & Co. (Distillers) Limited: *See*—
Bloch Bros.

Glaser Lead Company, Inc., Brooklyn, N. Y. Body solder. 574,916. May 26; Serial No. 622,820, published Mar. 3, 1953. Class 14.

Glenfyne Distillery Company Limited, The, Ardrishaig, Scotland. Whisky. 302,733, Apr. 25, 1933. Republished May 26. Class 49.

Goldman, Charles, doing business as Atlas Mills, to Atlas Fabrics Corporation, New York, N. Y. Textile fabrics. 287,898, renewed Oct. 13, 1951. O. G. May 26. Class 42.

Goss Printing Press Company, The, Chicago, Ill. Rotary printing presses, stereotype-casting boxes and stereotype-plate-trimming mechanism. 574,917, May 26; Serial No. 622,994, published Jan. 20, 1953. Class 23.

Grand Duchess Steaks, Inc., Akron, Ohio. Frozen raw beef steaks. 574,847, May 26; Serial No. 600,332, published June 24, 1952. Class 46.

Great Northern Map Company: *See*—
Warren, O. F.

Greer, Arthur H., trading as Ohio Steak & Barbecue Company, Los Angeles, Calif., and Columbus, Ohio. Frozen meats. 575,040, May 26; Serial No. 537,687. Class 46.

Gulbert, Francis W., doing business as Automatic Liquid Meter Co., Los Angeles, Calif. Meters. 574,889, May 26; Serial No. 618,578, published Jan. 27, 1953. Class 26.

Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butchers' paper. 574,856, May 26; Serial No. 605,160, published Dec. 30, 1952. Class 37.

Haas Miller Corporation, Philadelphia, Pa. Rust preventive, wetting agent, surface tension reducer, and chemical solvent. 574,936, May 26; Serial No. 625,597, published Mar. 10, 1953. Class 6.

Habicht, Braun & Co., to Smyrna Imports Co., Inc., New York, N. Y. Dates. 302,797, renewed Apr. 25, 1953. O. G. May 26. Class 46.

Hadley, Charles R., Company, Los Angeles, Calif. Accounting textbooks. 574,836, May 26; Serial No. 593,346, published Mar. 3, 1953. Class 38.

Hamilton Metal Products Company, The, Hamilton, Ohio. Portable strong boxes, cash boxes, hand boxes. 574,869, May 26; Serial No. 612,613, published Mar. 10, 1953. Class 25.

Hampshire Paper Company, South Hadley Falls, to Byron Weston Company, Dalton, Mass. Writing and printing paper. 301,385, renewed Feb. 28, 1953. O. G. May 26. Class 37.

Hampshire Paper Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 301,387, Feb. 28, 1933; republished May 26, 1953. Class 37.

Harbers, W. J., & Co., Telford, Pa. Drain pans for refrigeration coils. 575,045, May 26; Serial No. 594,124. Class 31.

Harman Brothers Limited, Birmingham, England. Cigarette cases. 574,861, May 26; Serial No. 607,428, published Mar. 10, 1953. Class 8.

Havana Cigar and Tobacco Factories, Limited, The: *See*—
Havana Cigar & Tobacco Factories, Lt'd.

Havana Cigar & Tobacco Factories, Lt'd., New York, N. Y., and Habana, Cuba, to The Havana Cigar and Tobacco Factories, Limited, Trenton, N. J. Cigars. 92,892, re-renewed Aug. 5, 1953. O. G. May 26. Class 17.

Heide, Henry, to Henry Heide, Incorporated, New York, N. Y. Candy. 92,794, re-renewed July 29, 1953. O. G. May 26. Class 46.

Heide, Henry, Incorporated: *See*—
Heide, Henry.

Helenhart Novelty Corporation, New York, N. Y. Key chains. 574,848, May 26; Serial No. 600,435, published Mar. 10, 1953. Class 13.

Helm Company, The: *See*—
Helm, Ray P.

Helm, Ray P., doing business as The Helm Company, Benton Harbor, Mich. Antiseptic vaginal suppositories. 304,143, renewed June 26, 1953. O. G. May 26. Class 18.

Hepner, Raymond, doing business under the name Raybo Chemical Company, Cleveland, Ohio, assignee of Edith H. Carpe. Paint additives. 574,833, May 26; Serial No. 591,280, published Mar. 3, 1953. Class 16.

Hercules Powder Company, Wilmington, Del. Cellulose esters and ethers. 303,921, June 13, 1933; republished May 26, 1953. Class 6.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., by Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes. 70,369, Aug. 25, 1908: republished May 26, 1953. Class 25.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., by Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes. 70,411, Aug. 25, 1908; republished May 26, 1953. Class 25.

Hetzel, Fred C., doing business under the fictitious name and style of Pinecrest Pipe and Tobacco Co., San Francisco, Calif. Pipe tobacco. 574,892, May 26; Serial No. 618,646, published Mar. 10, 1953. Class 17.

Hofschneider Corporation, The, Rochester, N. Y. Artificial fishing lures. 574,830, May 26; Serial No. 587,552, published Mar. 3, 1953. Class 22.

Hollingshead, R. M., Corporation, Camden, N. J. Penetrating oil. 574,929, May 26; Serial No. 624,544, published Feb. 17, 1953. Class 15.

Hook-Flex Company, assignor to Hook-Flex Corporation, Chicago, Ill. Hook and eye fastenings. 574,947, May 26; Serial No. 626,675, published Dec. 30, 1952. Class 40.

Hook-Flex Corporation, assignee: *See*—
Hook-Flex Company.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating oils and greases. 302,902, May 2, 1933; republished May 26, 1953. Class 15.

Houghton, E. F., & Co., Philadelphia, Pa. Cutting oils. 302,904, May 2, 1933; republished May 26, 1953. Class 15.

Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. 303,080, June 13, 1933; republished May 26, 1953. Class 35.

Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Cobra venom solution. 574,959, May 26; Serial No. 628,627, published Feb. 10, 1953. Class 18.

Imperial Chemical Industries Limited, London, England. Nitro-glycerine explosive compounds, blasting explosives, military explosives, etc. 574,984, May 26; Serial No. 631,928, published Mar. 10, 1953. Class 9.

Ingersoll-Rand Company, assignee: *See*—
Cameron, A. S., Steam Pump Works.

Institute of Commercial Art, Inc., New York, N. Y. Bristol board, bristol board in pad form, panels used for art painting, etc. 574,844, May 26; Serial No. 598,257, published Dec. 30, 1952. Class 37.

International Milling Company: *See*—
New Prague Flouring Mill Company.

International Nickel Company, Inc., The, New York, N. Y. Rough and partly finished ductile iron castings. 574,862, May 26; Serial No. 607,431, published Mar. 10, 1953. Class 14.

International Paint Company, Inc., New York, N. Y. Ready-mixed paints. 574,914, May 26; Serial No. 622,440, published Mar. 3, 1953. Class 16.

International Resistance Company, Philadelphia, Pa. Resistors such as used in radio apparatus. 304,723, renewed July 18, 1953. O. G. May 26. Class 21.

Johns-Manville Corporation, New York, N. Y. Thermal insulation materials. 301,888, renewed Mar. 21, 1953. O. G. May 26. Class 12.

Jones Graphic Products Company, Albuquerque, N. Mex. Machinery and equipment used in the graphic arts industry; cameras, and apparatus for preparing printing plates. 574,832, May 26; Serial No. 590,226, published Mar. 10, 1953. Class 26.

Jordan, Thomas, Incorporated, New Orleans, La. Preparations containing beta-amylose tri-iodide. 574,880, May 26; Serial No. 617,035, published Feb. 10, 1953. Class 18.

Kahn, Frederick M., doing business as Lovlos Laboratories, Denver, Colo. Perfumes, hand cream, cleansing cream, etc. 574,860, May 26; Serial No. 607,331, published Feb. 17, 1953. Class 51.

Kay Electric Company, Pine Brook, N. J. Instrument which is a calibrated variable frequency marker pip generator. 574,873, May 26; Serial No. 613,455, published Mar. 10, 1953. Class 26.

Keasbey & Mattison Company, to Keasbey & Mattison Company, Ambler, Pa. Insulation products. 303,096–7, renewed May 9, 1953. O. G. May 26. Class 12.

Kessler Luggage Manufacturing Corp., New York, N. Y. Fabric traveling bag. 574,887, May 26; Serial No. 617,910, published Feb. 24, 1953. Class 3.

Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Washable wall paint. 575,008, May 26; Serial No. 634,047, published Mar. 3, 1953. Class 16.

Klein, Olda V., Washington, D. C. Maternity garments. 574,918, May 26; Serial No. 622,999, published Mar. 3, 1953. Class 39.

Klenzade Products, Incorporated, Beloit, Wis. Liquid bactericide. 574,944, May 26; Serial No. 626,385, published Mar. 3, 1953. Class 6.

"Knappen Company": *See*—
Knappen Sales Company.

Knappen Sales Company, doing business under the trade name or style "Knappen Company," Augusta, Mich. Food and vitamin supplement. 574,871, May 26; Serial No. 613,136, published Feb. 10, 1953. Class 18.

Knight Leather Products Inc., Boston, Mass. Fitted dressing cases. 574,930, May 26; Serial No. 624,888, published Mar. 3, 1953. Class 3.

Knopf Instrument Company, Jersey City, N. J., now by change of name Engler Instrument Company. Recorders for vehicles and industrial machines, and odometers 574,899, May 26; Serial No. 619,761, published Feb. 3, 1953. Class 26.

Knox Company, The, Los Angeles, Calif. Medicinal preparation. 574,866, May 26; Serial No. 610,912, published Jan. 8, 1952. Class 18.

Koret, Inc., New York, N. Y. Ladies' purses, pocketbooks, and hand bags. 301,022, Feb. 14, 1933; republished May 26, 1953. Class 3.

Koven, Henry H., Chicago, Ill. Grooved phonograph records. 574,927, May 26; Serial No. 624,237, published Mar. 10, 1953. Class 36.

Krispy Kake Kone Kompany: *See*—
Krispy Kake Kone Kompany, Inc.

Krispy Kake Kone Kompany, Inc., Los Angeles, Calif., assignee of Krispy Kake Kone Kompany. Ice cream cones. 575,043, May 26; Serial No. 575,355. Class 46.

Kropp Forge Company, Chicago, Ill. House organ. 575,009, May 26; Serial No. 634,092, published Mar. 3, 1953. Class 38.

Laboratoire Ertima: *See*—
Pharmacie Principale de la Porte d'Orleans.

La France Manufacturing Company, Philadelphia, Pa., to General Foods Corporation, New York, N. Y. Laundry waxes. 90,856, re-renewed Mar. 25, 1953. O. G. May 26. Class 6.

La Pryor Milling Co., La Pryor, Tex. Feed. 575,051, May 26; Serial No. 622,077. Class 46.

Lea Manufacturing Company, The, Waterbury, Conn. Abrasive composition. 304,157, renewed June 20, 1953. O. G. May 26. Class 4.

Leader Manufacturing Co., St. Louis, Mo. Purses. 574,931, May 26; Serial No. 625,072, published Feb. 24, 1953. Class 3.

Leonhard, Theodor, Wax Co. Inc., Haledon, N. J. Beeswax. 302,926, May 2, 1933. Republished May 26. Class 6.

Levine, Louis, & Sons, Inc. of Ohio, Cincinnati, Ohio. Ladies' and misses' dresses, suits, and coats. 574,865, May 26; Serial No. 610,856, published Mar. 3, 1953. Class 39.

Lewis-Shepard Products, Inc., Watertown, Mass. Metal racks. 574,891, May 26; Serial No. 618,587, published Mar. 10, 1953. Class 32.

Life Savers Corporation, Port Chester, N. Y. Candies. 575,057, May 26; Serial No. 641,850. Class 46.

Lipfert, George A., New York, N. Y. Liquid preparation for refreshing and revitalizing inked ribbons. 575,027, May 26; Serial No. 637,454, published Mar. 10, 1953. Class 6.

Longworth, Dewey, Oakland, Calif. Golf clubs. 301,679, renewed Mar. 7, 1953. O. G. May 26. Class 22.

Lovins Laboratories: *See*—
Kahn, Frederick M.

Lubal, Inc., Columbus, Ohio. Top-cylinder lubricant. 305,043, renewed July 25, 1953. O. G. May 26. Class 15.

Macdonald, Greenlees Limited, Leith, to Macdonald Greenlees Limited, Edinburgh, Scotland. Whisky. 303,538, renewed May 30, 1953. O. G. May 26. Class 49.

Macdonald, Greenlees Limited, Leith, to Macdonald Greenlees Limited, Edinburgh, Scotland. Whisky. 304,748, renewed July 18, 1953. O. G. May 26. Class 49.

Mackenzie, Donald, Distillers Limited: *See*—
Bloch Bros.

Macon, Roger, Vanves, France. Dentifrices. 574,823, May 26; Serial No. 582,438, published Feb. 24, 1953. Class 51.

Magnaflux Corporation, Chicago, Ill. Materials, consisting of penetrating liquids, namely—aqueous electrolytes, etc. 574,955, May 26; Serial No. 628,180, published Mar. 3, 1953. Class 6.

Maier, Fred J., Chicago, Ill. Spectacle container. 574,922, May 26; Serial No. 623,252, published Jan. 27, 1953. Class 26.

Maintenance Inc., Wooster, Ohio. Floor patching and resurfacing materials. 574,820, May 26; Serial No. 577,395, published Apr. 15, 1952. Class 12.

Mangels, Arthur C., Industries, Philadelphia, Pa. Waterproof paints. 574,852, May 26; Serial No. 601,681, published Mar. 3, 1953. Class 16.

Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann, Paris, France. Dyestuffs, dyes, sizings, and bleaches. 574,817, May 26; Serial No. 574,105, published Mar. 3, 1953. Class 6.

Marathon Corpocation: *See*—
Menasha Products Company, The.

Markal Co., The, Chicago, Ill. Crayon-like marking implements. 574,851, May 26; Serial No. 601,268, published Dec. 30, 1952. Class 37.

McCall Corporation, New York, N. Y. Department, section or feature in a magazine. 575,007, May 26; Serial No. 633,941, published Feb. 24, 1953. Class 38.

McQuillan, Patricia, doing business under the name of Evelyn West, Los Angeles, Calif. Entertainment service. 575,038, May 26; Serial No. 632,257, published Mar. 3, 1953. Class 107.

Meier & Pohlmann Furniture Company, St. Louis, Mo. Cocktail tables, coffee tables, and multiple purpose tables. 574,885, May 26; Serial No. 617,764, published Mar. 10, 1953. Class 32.

Menasha Products Company, The, to Marathon Corporation, Menasha, Wis. Receptacles. 303,264, renewed May 16, 1953. O. G. May 26. Class 2.

Merck & Co., Inc., Rahway, N. J. Antibiotics for veterinary use. 575,029, May 26; Serial No. 638,266, published Feb. 10, 1953. Class 18.

Metal Lubricants Co., Chicago, Ill. Drawing oil, cutting oil, lubricating oil, etc. 574,967, May 26; Serial No. 629,615, published Feb. 17, 1953. Class 15.

Metallurg Inc., New York, N. Y. Pure metals, ferrous and non-ferrous metal alloys. 575,047, May 26; Serial No. 613,518. Class 14.

Migel, M. C., & Co., New York, N. Y., to Burlington Mills Corporation, Greensboro, N. C. Silk piece goods. 90,560, re-renewed Mar. 4, 1953. O. G. May 26. Class 42.

Miles Laboratories, Inc.: *See*—
Edison, Sylvan M.

Miller, A. D., Sons' Company, Pittsburgh, to United Refining Company, Warren, Pa. Gasoline. 302,964, renewed May 2, 1953. O. G. May 26. Class 15.

Miller and Rhoads, Incorporated, Richmond, Va. Baggage and animal equipment. 574,920, May 26; Serial No. 623,101, published Feb. 17, 1953. Class 3.

Miller, George J., doing business as National Cap & Set Screw Co., Chicago, Ill. Cap screws, set screws, and nuts. 574,950, May 26; Serial No. 627,396, published Mar. 10, 1953. Class 13.

Minnesota Paints, Inc., doing business as The Chi-Namel Paint & Varnish Co., Minneapolis, Minn. Ready mixed flat wall paint. 574,898, May 26; Serial No. 619,642, published Mar. 3, 1953. Class 16.

Missouri Paint & Varnish Co., St. Louis, Mo. Paints, paint enamels, varnishes, etc. 574,806, May 26; Serial No. 532,619, published Aug. 26, 1952. Class 16.

Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Decorative exterior and interior stucco paint and plastic paint. 574,843, May 26; Serial No. 598,197, published Mar. 3, 1953. Class 16.

Moore Business Forms, Inc.: *See*—
American Sales Book Company, Limited.

Mother's Macaroni Company, to The Creamette Company, Minneapolis, Minn. Macaroni. 90,907, re-renewed Apr. 1, 1953. O. G. May 26. Class 46.

Motta, S. P. A., Milan, Italy. Cakes, candy, pastries, etc. 575,041, May 26; Serial No. 570,875. Class 46.

Mousse Limited, London, England. Wines. 304,963, renewed July 25, 1953. O. G. May 26. Class 47.

Musselman, C. H., Company, The, Biglerville, Pa. Canned fruits, fruit preserves, jellies, etc. 304,223, renewed June 27, 1953. O. G. May 26. Class 46.

Naamlooze Vennootschap Vereenigde Chemische Fabrieken, Utrecht, Netherlands, to Albatros Superfosfaatfabrieken N. V., Utrecht, Holland. Manure. 298,720, renewed Nov. 1, 1952. O. G. May 26. Class 10.

Nason, R. N., & Co., San Francisco; Calif., by Crown Central Petroleum Corporation, Baltimore, Md. Lubricants. 40,411, May 19, 1903. Republished May 26. Class 15.

Na-Spra, Incorporated, St. Louis, Mo. Nasal spray preparation. 574,831, May 26; Serial No. 580,799, published Feb. 10, 1953. Class 18.

National Cap & Set Screw Co.: *See*—
Miller, George J.

Nelsler Mills, Inc., Kings Mountain, N. C. Decorative woven fabrics. 301,514, renewed Mar. 7, 1953. O. G. May 26. Class 42.

Nelsler Mills, Inc., Kings Mountain, N. C. Table napkins. 302,099, renewed Mar. 28, 1953. O. G. May 26. Class 42.

Nepera Chemical Co. Inc., Nepera Park, N. Y. Medicinal preparation. 574,905, May 26; Serial No. 620,928, published Feb. 10, 1953. Class 18.

New Jersey Zinc Company, The, New York, N. Y. Rolled zinc. 575,030, May 26; Serial No. 640,222, published Mar. 10, 1953. Class 14.

New Prague Flouring Mill Company, New Prague, to International Milling Company, Minneapolis, Minn. Wheat-flour. 91,507, re-renewed May 6, 1953. O. G. May 26. Class 46.

Nixon & Company (Nebraska), Omaha, Nebr. Bred sow and pig concentrate. 574,946, May 26; Serial No. 626,587, published Feb. 10, 1953. Class 18.

Nopco Chemical Company, Harrison, N. J. Quaternary ammonium salts. 574,965, May 26; Serial No. 629,179, published Mar. 10, 1953. Class 18.

Nordmark-Werke Gesellschaft mit beschraenkter Haftung, Uetersen, Holstein, Germany. Sulfonamide preparations. 574,881, May 26; Serial No. 617,206, published Feb. 10, 1953. Class 18.

Norton Laboratories, Inc., Lockport, N. Y. Circular compartmented jar. 574,858, May 26; Serial No. 606,435, published Feb. 17, 1953. Class 2.

Nutrition Research Laboratories, Inc., Chicago, Ill. Pharmaceutical in tablet form. 575,000, May 26; Serial No. 633,320, published Feb. 10, 1953. Class 18.

Ohio Grease Co., The: *See*—
Ohio Grease Lubricant Co., The.

Ohio Grease Lubricant Co., The, to The Ohio Grease Co., Loudonville, Ohio. Cylinder-grease, cup-grease, fiber-grease, etc. 92,572, re-renewed July 15, 1953. O. G. May 26. Class 15.

Ohio Steak & Barbecue Company: *See*—
Greer, Arthur H.

Orchard Paper Co., St. Louis, Mo. Paper merchandise bags. 574,935, May 26; Serial No. 625,487, published Mar. 3, 1953. Class 2.

Organon Inc., Orange, N. J. Medicinal streptokinase. 574,992, May 26; Serial No. 632,847, published Mar. 3, 1953. Class 18.

Organon Inc., Orange, N. J. Pharmaceutical preparation. 574,997, May 26; Serial No. 633,166, published Feb. 10, 1953. Class 18.

Original Handbag Co., New York, N. Y. Ladies' handbags and pocketbooks. 574,835, May 26; Serial No. 592,159, published Feb. 24, 1953. Class 3.

Ortho Pharmaceutical Corporation, Raritan, N. J. Nutrient buffered vaginal douche tablet. 574,904, May 26; Serial No. 620,787, published Feb. 10, 1953. Class 18.

Ortho Pharmacentical Corporation, Raritan, N. J. Pharmaceutical and therapeutic formulations and preparations. 574,913, May 26; Serial No. 622,167, published Feb. 10, 1953. Class 18.

Pabst Brewing Company: *See*—
Ballantine, P., & Sons.

Parfums Corday, Inc., assignee: *See*—
Feldman, Louis J.

Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of streptomycin resistant tuberculosis. 575,018, May 26; Serial No. 634,749, published Feb. 17, 1953. Class 18.

Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of amoebic dysentery. 575,019, May 26; Serial No. 634,751, published Feb. 17, 1953. Class 18.

Peale, Peacock & Kerr, Incorporated, Philadelphia, Pa. Bituminous coal. 90,400, re-renewed Feb. 18, 1953. O. G. May 26. Class 1.

Peanut Corporation of America, doing business under the name of Peanut Products Company, Des Moines, Iowa. Cashew nuts. 575,049, May 26; Serial No. 614,463. Class 46.

Peanut Products Company: *See*—
Peanut Corporation of America.

Penn American Refining Co., by The Pennzoil Company, Oil City, Pa. Engine and automobile lubricating oils. 127,864, Dec. 9, 1919. Republished May 26. Class 15.

Penn-Champ Oil Corporation, Butler, Pa. Motor oil and machine oil. 574,958, May 26; Serial No. 628,505, published Feb. 17, 1953. Class 15.

Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Flexible metal couplings. 574,937, May 26; Serial No. 625,624, published Mar. 10, 1953. Class 13.

Pennzoil Company, The: *See*—
Penn American Refining Co.

Perkins, T. D., San Diego, Calif. Mineral oil, quinine, peroxide of hydrogen, etc. 303,560, renewed May 30, 1953. O. G. May 26. Class 18.

Petroleum Information, Denver, Colo., Casper, Wyo., and Billings, Mont. Columns and articles in newspapers and magazines, pamphlets, etc. 575,016, May 26; Serial No. 634,708, published Mar. 3, 1953. Class 38.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Technical periodical. 575,017, May 26; Serial No. 634,710, published Mar. 3, 1953. Class 38.

Pharmacie Principale de la Porte d'Orleans, doing business as Laboratoire Ertima, Paris, France. Tablets for the organic fixation of phosphorous, calcium, and iron. 574,818, May 26; Serial No. 574,922, published Feb. 10, 1953. Class 18.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 574,964, May 26; Serial No. 629,037, published Feb. 10, 1953. Class 18.

Physiological Chemicals Company, Inc., New York, N. Y. Pharmaceutical preparation. 574,841, May 26; Serial No. 596,294, published Feb. 10, 1953. Class 18.

Pinecrest Pipe and Tobacco Co.: *See*—
Hetzel, Fred C.

Productive Equipment Corporation, Chicago, Ill. Vibrating screens. 574,825, May 26; Serial No. 584,947, published Jan. 20, 1953. Class 23.

Pulici, Louis, doing business as Pulici Packing Company, Los Angeles and Upland, Calif. Canned vegetables, canned fruits. 575,053, May 26; Serial No. 628,712. Class 46.

Pulici Packing Company: *See*—
Pulici, Louis.

Purofied Down Products Corp., New York and Brooklyn, N. Y. Cushions and pillows. 574,870, May 26; Serial No. 613,110, published Mar. 10, 1953. Class 32.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. 302,779, renewed Apr. 25, 1953. O. G. May 26. Class 46.

Qualcast Limited, Derby, England. Lawn mowers. 574,963, May 26; Serial No. 628,874, published Feb. 3, 1953. Class 23.

Radiovision Corporation, Los Angeles, Calif. Motion picture films. 575,039, May 26; Serial No. 529,087. Class 26.

Radtke & Wahl Gesellschaft mit beschraenkter Haftung, Hannover, Germany. Spectacle-glasses. 574,902, May 26; Serial No. 620,553, published Jan. 27, 1953. Class 26.

Raybo Chemical Company: *See*—
Hepper, Raymond.

Raytheon Manufacturing Company, Newton, Mass. Apparatus for measuring distances by reflected sound waves or by similar acoustic methods. 574,938, May 26; Serial No. 625,692, published Feb. 3, 1953. Class 26.

Reelist, Inc., Jersey City, N. J. Clothesline tape-reel and tape. 574,945, May 26; Serial No. 626,471, published Mar. 10, 1953. Class 24.

Renée of Hollywood, Los Angeles, Calif. Booklet. 574,877, May 26; Serial No. 616,511, published Feb. 17, 1953. Class 38.

Rice-Stix Dry Goods Company, to Rice-Stix, Inc., St. Louis, Mo. Men's and boys' athletic underwear. 92,829, re-renewed July 29, 1953. O. G. May 26. Class 39.

Rice-Stix, Inc.: *See*—
Rice-Stix Dry Goods Company.

Rider, Kenneth N., Company, Inc., Trafalgar, Ind. Canned vegetables. 574,872, May 26; Serial No. 613,383, published Oct. 28, 1952. Class 46.

Riegel Paper Corporation, New York, N. Y. Glassine paper. 301,001, Feb. 14, 1933. Republished May 26. Class 37.

Ruhy Chevrolet, Inc., Chicago, Ill. Used and new trucks. 574,867, May 26; Serial No. 611,310, published Mar. 3, 1953. Class 19.

Sage Laboratories, Inc., New York, N. Y. Insecticide and mothproofing agents. 574,941, May 26; Serial No. 626,048, published Mar. 3, 1953. Class 6.

Sand's Level and Tool Company, The, Detroit, Mich. Spirit levels. 574,807, May 26; Serial No. 539,569, published Jan. 13, 1953. Class 26.

Sanident Company: *See*—
Edison, Sylvan M.

Schenley Laboratories, Inc., New York, N. Y. Medicinal product. 574,857, May 26; Serial No. 605,178, published Feb. 10, 1953. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Liquid cough medication. 575,024, May 26; Serial No. 636,384, published Mar. 10, 1953. Class 18.

Schering Corporation, Bloomfield, N. J. Medicated repeat action tablets. 574,875, May 26; Serial No. 614,167, published Feb. 17, 1953. Class 18.

Schering Corporation, Bloomfield, N. J. Sulfonamide. 575,001, May 26; Serial No. 633,332, published Feb. 10, 1953. Class 18.

Scherl & Roth, Inc.: *See*—
Simson & Frey, Inc.

Schieffelin & Co., New York, N. Y. Product, in lotion and ointment form, for treatment of pimples and oily condition of skin. 575,002, May 26; Serial No. 633,433, published Feb. 17, 1953. Class 18.

Schieffelin & Co., New York, N. Y. Product, in lotion form, for treatment of scalp and skin. 575,003, May 26; Serial No. 633,434, published Feb. 17, 1953. Class 18.

Schmidgall, Dr. A. & L.: *See*—
Brady & Schmidgall.

Schoenback Industries: *See*—
Schoenback, Richard P.

Schoenback, Richard P., doing business as Schoenback Industries, Dallas, Tex. Turntables for chairs, tables, consoles, etc. 574,911, May 26; Serial No. 621,686, published Mar. 10, 1953. Class 32.

Schonbrunn, S. A., & Co., Inc., New York, N. Y. Coffee. 575,046, May 26; Serial No. 594,150. Class 46.

Sheldon Handbag Corp., New York, N. Y. Ladies' handbags. 574,983, May 26; Serial No. 631,691, published Mar. 3, 1953. Class 3.

Signal Oil Company: *See*—
Standard Oil Company of California.

Simson & Frey, Inc., New York, N. Y., to Scherl & Roth, Inc., Cleveland, Ohio. Strings for violins and similar musical instruments. 305,485, renewed Aug. 15, 1953. O. G. May 26. Class 36.

Smyrna Imports Co., Inc.: *See*—
Habicht, Braun & Co.

Societe Anonyme Jeanne Lanvin, Paris, France. Women's handbags. 574,999, May 26; Serial No. 633,284, published Mar. 3, 1953. Class 3.

Société à Responsabilité Limitée: Le Telecamplitphone, Paris, France. Voice communicating systems between stations. 574,910, May 26; Serial No. 621,587, published Feb. 24, 1953. Class 21.

Société Genevoise d'Instruments de Physique, Geneva, Switzerland. High precision machine tools. 574,886, May 26; Serial No. 617,819, published Jan. 20, 1953. Class 23.

Southern Dairies, Inc., Washington, D. C. Frozen confections. 301,719, renewed Mar. 14, 1953. O. G. May 26. Class 46.

Stahl- und Walzwerke Rasselstein/Andernach Aktiengesellschaft, Neuwied (Rhine), Germany. Partly finished non-precious metal; iron sheets and iron strips. 574,968, May 26; Serial No. 629,632, published Mar. 10, 1953. Class 14.

Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif. Pressure appliance fuel. 574,951, May 26; Serial No. 627,606, published Feb. 17, 1953. Class 15.

Stange, Wm. J., Co., Chicago, Ill. Consulting and laboratory services. 575,032, May 26; Serial No. 684,702, published Oct. 24, 1950. Class 106.

Steel Service, Inc., Steubenville, Ohio. Metal clothes cabinets or lockers. 574,975, May 26; Serial No. 630,357, published Mar. 10, 1953. Class 32.

Steel & Tank Service Company, Charlotte, N. C. Cleaning, painting, and repairing all types of steel structures. 575,036, May 26; Serial No. 627,780, published Mar. 3, 1953. Class 103.

Steiner Sales Company Division of American Linen Supply Co.: *See*—
American Linen Supply Co.

Stepan Chemical Company, Chicago, Ill. Detergents, soaps and cleaning and washing compounds. 574,895, May 26; Serial No. 619,268, published Feb. 3, 1953. Class 52.

Sterling Drug Inc., New York, N. Y. Antibacterial baby bath preparation. 574,909, May 26; Serial No. 621,533, published Feb. 10, 1953. Class 18.

Sterwin Chemicals Inc., New York, N. Y. Cloth impregnated with a germicidal, bactericidal agent. 574,962, May 26; Serial No. 626,964, published Mar. 10, 1953. Class 6.

Stoddard Associated Milling Company, Napa, Calif. Supplemental feed. 574,928, May 26; Serial No. 624,427, published Mar. 3, 1953. Class 46.

Storkline Furniture Corporation, Chicago, Ill. Mattresses. 574,982, May 26; Serial No. 631,638, published Mar. 10, 1953. Class 32.

Sun Oil Company, Philadelphia, Pa. Hydrocarbon oil. 574,991, May 26; Serial No. 632,803, published Mar. 3, 1953. Class 6.

Superdisplay, Incorporated, assignee: *See*—
General Sales Corporation.

Sutherland Paper Company, Kalamazoo, Mich. Collapsible cartons. 575,022, May 26; Serial No. 635,002, published Mar. 3, 1953. Class 2.

Thompson & Company, Inc., Tampa, Fla. Cigars. 574,840, May 26; Serial No. 595,628, published Mar. 10, 1953. Class 17.

Tracy, John D., New York, N. Y. Political publication. 575,004, May 26; Serial No. 633,518, published Feb. 24, 1953. Class 38.

Trans-Lux Corporation, New York, N. Y. Projection screens, film projectors, and parts thereof. 574,837, May 26; Serial No. 594,817, published Jan. 27, 1953. Class 26.

Treadwell Engineering Company, Easton, Pa. Rolling mill machinery; hot transfer machinery, hot transfer drives; etc. 574,808, May 26; Serial No. 547,194, published Feb. 10, 1953. Class 23.

Treadwell Engineering Company, Easton, Pa. Pipe making machines; grain mills; cold rolling mills (small); etc. 574,809, May 26; Serial No. 547,195, published Feb. 10, 1953. Class 23.

Triad Transformer Mfg. Co., Los Angeles, Calif. Geophysical transformers. 574,846, May 26; Serial No. 598,618, published Feb. 24, 1953. Class 21.

Tung-Sol Electric, Inc.: *See*—
Tung-Sol Lamp Works, Inc.

Tung-Sol Lamp Works, Inc., to Tung-Sol Electric, Inc., Newark, N. J. Incandescent electric bulbs. 301,328, renewed Feb. 28, 1953. O. G. May 26. Class 21.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Union Trading Company, Ltd., Basel, Switzerland. Perfumes, face powder, face cream, etc. 574,827, May 26; Serial No. 586,369, published Feb. 17, 1953. Class 51.

Union Trading Company Ltd., Basel, Switzerland. Perfumes, face powder, face cream, etc. 574,828, May 26; Serial No. 586,376, published Feb. 17, 1953. Class 51.

United Growers, Inc., Salem, Oreg. Canned fruits, canned vegetables, canned berries, etc. 575,055, May 26; Serial No. 635,859. Class 46.

United Refining Company: *See*—
Miller, A. D., Sons' Company.

United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Steel sheets. 574,952, May 26; Serial No. 627,715, published Mar. 10, 1953. Class 14.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Metal pipes, tubes, casing, and couplings therefor. 574,976, May 26; Serial No. 630,635, published Mar. 3, 1953. Class 13.

United States Steel Corporation: *See*—
United States Steel Company.

Universal Button Fastening and Button Company, Detroit, Mich. Slide fasteners. 574,972–3, May 26; Serial Nos. 630,291–2, published Mar. 10, 1953. Class 13.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 575,020–1, May 26; Serial Nos. 634,814–15, published Feb. 17, 1953. Class 18.

Valley Paper Company: *See*—
Hampshire Paper Company.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Wax coating composition. 574,888, May 26; Serial No. 618,017, published Mar. 3, 1953. Class 16.

Vanity Fair Mills, Inc.: *See*—
Vanity Fair Silk Mills.

Vanity Fair Silk Mills, to Vanity Fair Mills, Inc., Reading, Pa. Knitted and textile underwear and hosiery. 304,520, renewed July 11, 1953. O. G. May 26. Class 39.

Victrylite Candle Company, Oshkosh, Wis. Candles. 574,966, May 26; Serial No. 629,335, published Feb. 17, 1953. Class 15.

Vitaphone Co., The, Plainfield, N. J., to The Vitaphone Corporation, New York, N. Y. Graphophones, gramophones, and parts thereof and records. 90,851, renewed Mar. 25, 1953. O. G. May 26. Class 36.

Vitaphone Corporation, The: *See*—
Vitaphone Co., The.

Warner-Steel Products Company, Inc., The, Ottawa, Kans. Farm machinery. 574,957, May 26; Serial No. 628,448, published Feb. 3, 1953. Class 23.

Warren, O. F., doing business as Great Northern Map Company, Tulsa, Okla. Abstract ownership maps. 574,979, May 26; Serial No. 631,184, published Feb. 24, 1953. Class 38.

Weather-Seal Inc., Barberton, Ohio. Paints and inside and outside finish varnishes. 574,859, May 26; Serial No. 606,993, published Mar. 3, 1953. Class 16.

Weekly Publications, Inc., New York, N. Y. Department or section of a periodical publication. 574,890, May 26; Serial No. 620,059, published Feb. 17, 1953. Class 38.

Wesleyan University Press Incorporated, The, doing business as American Education Press, Columbus, Ohio. Magazine. 574,960, May 26; Serial No. 628,727, published Mar. 3, 1953. Class 38.

West Disinfecting Company, Long Island City, N. Y. Foot bath tray. 574,971, May 26; Serial No. 630,249, published Mar. 3, 1953. Class 2.

West Disinfecting Company, Long Island City, N. Y. Waterproof hard, glossy floor finish coating. 574,933, May 26; Serial No. 625,379, published Mar. 3, 1953. Class 16.

West, Evelyn: *See*—
McQuillan, Patricia.

Western Tablet & Stationery Corporation, Dayton, Ohio. Examination books. 574,805, May 26; Serial No. 526,101, published Dec. 30, 1952. Class 37.

Weston, Byron Company: *See*—
Hampshire Paper Company.

White, Milnor, San Francisco, Calif. Publication. 574,988, May 26; Serial No. 632,189, published Mar. 3, 1953. Class 38.

Wickwire Spencer Steel Company: *See*—
Bowers, Edward C., and C. L. Feldman.

Willard's Manufacturing Company, Perry, Mo. Veterinarian appliances. 575,050, May 26; Serial No. 616,352. Class 44.

Williams Oil-O-Matic Heating Corporation, to Eureka Williams Corporation, Bloomington, Ill. Domestic hot water heater. 304,965, renewed July 25, 1953. O. G. May 26. Class 34.

Wilson & Co., Inc., Chicago, Ill. Moist type food. 574,932, May 26; Serial No. 625,087, published Mar. 3, 1953. Class 46.

Wilson Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.

Wilson, Joseph & Henry Limited, Sheffield, England. Snuff. 92,024, re-renewed June 10, 1953. O. G. May 26. Class 17.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Detergent composition. 574,834, May 26; Serial No. 591,533, published Oct. 16, 1951. Class 52.

Xenoteck, Inc., Van Nuys, Calif. Vitamin A preparation. 574,907, May 26; Serial No. 621,192, published Feb. 10, 1953. Class 18.

Ziff-Davis Publishing Company, Chicago, Ill., and New York, N. Y. Magazine. 575,031, May 26; Serial No. 634,675, published Mar. 3, 1953. Class 38.

Zuckerman Mandeville Inc., Stockton, Calif. Fresh and canned asparagus. 574,839, May 26; Serial No. 595,435, published Feb. 3, 1953. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Bituminous. Peale, Peacock & Kerr, Incorporated. 90,400, re-renewed Feb. 18, 1953. O. G. May 26.

Liquid water soluble, polymerizable, phenolic casting resin composition. Calresin Corporation. 441,172, Oct. 26, 1948. Republished May 26.

Tire casing dusting powders. The Firestone Tire & Rubber Company. 301,397–8, renewed Feb. 28, 1953. O. G. May 26.

CLASS 2

Bags, Empty. Fruit Products Corporation. 575,006, May 26; Serial No. 633,842, published Feb. 17, 1953.

Bags, Paper merchandise. Orchard Paper Co. 574,935, May 26; Serial No. 625,487, published Mar. 3, 1953.

Boxes, Dry food product, paper and cardboard. General Sales Corporation. 574,863, May 26; Serial No. 609,175, published Feb. 24, 1953.

Cabinets for dispensing paper towels. American Linen Supply Co. 574,821, May 26; Serial No. 580,868, published Feb. 17, 1953.

Cartons, Collapsible. Sutherland Paper Company. 575,022, May 26; Serial No. 635,002, published Mar. 3, 1953.

Flower pots and dish-like flower pot holders. Bath Tyre Service Depot Limited. 574,803, May 26; Serial No. 619,068, published Feb. 17, 1953.

Hampers, Clothes. The Associated Merchandising Corporation. 574,954, May 26; Serial No. 628,029, published Feb. 17, 1953.

Jar, Circular compartmented. Norton Laboratories, Inc. 574,858, May 26; Serial No. 606,435, published Feb. 17, 1953.

Receptacles. The Menasha Products Company. 303,264, renewed May 16, 1953. O. G. May 26.

Tray, Foot bath. West Disinfecting Company. 574,971, May 26; Serial No. 630,249, published Mar. 3, 1953.

CLASS 3

Baggage and animal equipment. Miller and Rhoads, Incorporated. 574,920, May 26; Serial No. 623,101, published Feb. 17, 1953.

Dressing cases, Fitted. Knight Leather Products Inc. 574,030, May 26; Serial No. 624,888, published Mar. 3, 1953.

Handbags and pocketbooks, Ladies'. Original Handbag Co. 574,835, May 26; Serial No. 592,150, published Feb. 24, 1953.

Handbags, Ladies'. Sheldon Handbag Corp. 574,983, May 26; Serial No. 631,691, published Mar. 3, 1953.

Handbags, Women's. Societe Anonyme Jeanne Lanvin. 574,999, May 26; Serial No. 633,284, published Mar. 3, 1953.

Purses, Leader Manufacturing Co. 574,931, May 26; Serial No. 625,072, published Feb. 24, 1953.

Purses, pocketbooks, and hand bags, Ladies'. Koret, Inc. 301,022, Feb. 14, 1933. Republished May 26.

Traveling bag, Fabric. Kessler Luggage Manufacturing Corp. 574,887, May 26; Serial No. 617,919, published Feb. 24, 1953.

Trunks. Friedberg-Grunauer Co. 574,903, May 26; Serial No. 620,728, published Mar. 3, 1953.

Wallets, Ansco, Incorporated. 574,854, May 26; Serial No. 604,136, published Mar. 3, 1953.

Wallets, Philip Florin, Inc. 574,948, May 26; Serial No. 627,179, published Mar. 3, 1953.

Wallets, Philip Florin, Inc. 574,953, May 26; Serial No. 627,937, published Mar. 3, 1953.

CLASS 4

Abrasive composition. The Les Manufacturing Company. 304,157, renewed June 20, 1953. O. G. May 26.

CLASS 6

Ammonia, Washing, and liquid bluing. Briardale Co. 503,519, Oct. 26, 1948. Corrected. O. G. May 26.

Anti-freeze solution and rubber solvent. The Firestone Tire & Rubber Company. 301,608, renewed Mar. 7, 1953. O. G. May 26.

Antiseptic and anti-bacterial solution for treatment of textiles. Benson-N'Gen Laboratories, Inc. 575,023, May 26; Serial No. 630,335, published Mar. 3, 1953.

Bactericide, Liquid. Klenzade Products, Incorporated. 574,944, May 26; Serial No. 626,385, published Mar. 3, 1953.

Beeswax. Theodor Leonhard Wax Co. Inc. 302,926, May 2, 1933. Republished May 26.

Cellulose esters and ethers. Hercules Powder Company. 303,921, June 13, 1933. Republished May 26.

Cloth impregnated with a germicidal, bactericidal agent. Sterwin Chemicals Inc. 574,962, May 26; Serial No. 626,064, published Mar. 10, 1953.

Dyestuffs, dyes, stainges, and bleaches. Manufactures de Dyestuffs, Chimiques du Nord Etablissements Kuhlmann. 574,817, May 26; Serial No. 574,105, published Mar. 3, 1953.

Hydrocarbon oil. Sun Oil Company. 574,991, May 26; Serial No. 632,803, published Mar. 3, 1953.

Insecticide. American Scientific Laboratories, Inc. 575,005, May 26; Serial No. 633,700, published Mar. 3, 1953.

Insecticide and mothproofing agents. Sage Laboratories, Inc. 574,941, May 26; Serial No. 626,048, published Mar. 3, 1953.

Laundry waxes. La France Manufacturing Company. 90,856, re-renewed Mar. 25, 1953. O. G. May 26.

Liquid preparation for refreshing and revitalizing inked ribbons. G. A. Lipfert. 575,027, May 26; Serial No. 637,454, published Mar. 10, 1953.

Materials, consisting of penetrating liquids—namely, aqueous electrolytes, etc. Magnaflux Corporation. 574,955, May 26; Serial No. 628,180, published Mar. 3, 1953.

Room deodorant. Bostwick Laboratories, Inc. 575,025, May 26; Serial No. 637,109, published Mar. 3, 1953.

Room deodorants. Casco Products Corporation. 574,816, May 26; Serial No. 573,355, published Feb. 10, 1953.

Rubber solvent. The Firestone Tire & Rubber Company. 301,970, renewed Mar. 21, 1953. O. G. May 26.

Rust preventive, wetting agent, surface tension reducer, and chemical solvent. Haas Miller Corporation. 574,936, May 26; Serial No. 625,597, published Mar. 10, 1953.

Space deodorant. Bridgeport Brass Company. 574,815, May 26; Serial No. 571,402, published Feb. 10, 1953.

CLASS 7

Cord, Hose and belt. Callaway Mills Company. 575,013, May 26; Serial No. 634,297, published Mar. 3, 1953.

CLASS 8

Cigarette cases. Harman Brothers Limited. 574,861, May 26; Serial No. 607,428, published Mar. 10, 1953.

CLASS 9

Nitro-glycerine explosive compounds, blasting explosives, military explosives, etc. Imperial Chemical Industries Limited. 574,984, May 26; Serial No. 631,028, published Mar. 10, 1953.

CLASS 10

Manure. Naamlooze Vennootschap Vereenigde Chemische Fabrieken. 298,720, renewed Nov. 1, 1952. O. G. May 26.

CLASS 12

Floor patching and resurfacing materials. Maintenance Inc. 574,820, May 26; Serial No. 577,395, published Apr. 15, 1952.

Insulation products. Keasbey & Mattison Company. 303,096–7, renewed May 9, 1953. O. G. May 26.

Thermal insulation materials. Johns-Manville Corporation. 301,888, renewed Mar. 21, 1953. O. G. May 26.

CLASS 13

Bill holding and dispensing unit. Continental Cashand Company. 574,868, May 26; Serial No. 612,592, published Mar. 10, 1953.

Cap screws, set screws, and nuts. G. J. Miller. 574,950, May 26; Serial No. 627,396, published Mar. 10, 1953.

Couplings, Flexible metal. Pennsylvania Flexible Metallic Tubing Company. 574,937, May 26; Serial No. 625,624, published Mar. 10, 1953.

Couplings, Tube. Crawford Fitting Company. 575,048, May 26; Serial No. 613,705.

Door springs. E. C. Bowers and C. L. Feldman. 303,352, renewed May 23, 1953. O. G. May 26.

Key chains. Helenhart Novelty Corporation. 574,848, May 26; Serial No. 600,435, published Mar. 10, 1953.

Metal pipes, tubes, casing, and couplings therefor. United States Steel Company. 574,976, May 26; Serial No. 630,635, published Mar. 3, 1953.

Slide fasteners. Universal Button Fastening and Button Company. 574,972–3, May 26; Serial Nos. 630,291–2, published Mar. 10, 1953.

CLASS 14

Body solder. Glaser Lead Company, Inc. 574,916, May 26; Serial No. 622,820, published Mar. 3, 1953.

Iron castings, Rough and partly finished ductile. The International Nickel Company, Inc. 574,862, May 26; Serial No. 607,431, published Mar. 10, 1953.

Metal castings. General Motors Corporation. 574,924, May 26; Serial No. 623,348, published Mar. 3, 1953.

Metal, Partly finished non-precious, iron sheets and iron strips. Stahl- und Walzwerke Rasselstein/Andernach Aktiengesellschaft. 574,968. May 26; Serial No. 629,632, published Mar. 10, 1953.

Metal plates, Composite. Chicago Bridge & Iron Company. 574,908, May 26; Serial No. 621,257, published Mar. 3, 1953.

Metals, Pure, ferrous and non-ferrous metal alloys. Metallurg Inc. 575,047, May 26; Serial No. 613,518.

Solder. The Electrona Corporation. 574,970, May 26; Serial No. 630,062, published Mar. 10, 1953.

Steel sheets. United States Steel Company. 574,952, May 26; Serial No. 627,715, published Mar. 10, 1953.

Zinc, Rolled. The New Jersey Zinc Company. 575,030, May 26; Serial No. 640,222, published Mar. 10, 1953.

CLASS 15

Candles, Victrylite Candle Company. 574,966, May 26; Serial No. 629,335, published Feb. 17, 1953.

Cylinder-grease, cup-grease, fiber-grease, etc. The Ohio Grease Lubricant Co. 92,572, re-renewed July 15, 1953. O. G. May 26.

Fuel, Pressure appliance. Standard Oil Company of California. 574,951, May 26; Serial No. 627,606, published Feb. 17, 1953.

Gasoline. A. D. Miller Sons' Company. 302,964, renewed May 2, 1953. O. G. May 26.

Lubricant, Top-cylinder. Lubal, Inc. 305,043, renewed July 25, 1953. O. G. May 26.

Lubricants. R. N. Nason & Co. 40,411, May 10, 1903. Republished May 26.

Lubricants, Liquid and solid. Allube Corporation. 574,956, May 26; Serial No. 628,248, published Feb. 17, 1953.

Lubricating compositions, Graphite and finely divided metallic. Electrofilm Corporation. 574,981, May 26; Serial No. 631,610, published Feb. 17, 1953.

Oil, Drawing, cutting oil, lubricating oil, etc. Metal Lubricants Co. 574,967, May 26; Serial No. 629,615, published Feb. 17, 1953.

Oil, Motor, and machine oil. Penn-Champ Oil Corporation. 574,958, May 26; Serial No. 628,505, published Feb. 17, 1953.

Oil, Penetrating. R. M. Hollingshead Corporation. 574,929, May 26; Serial No. 624,544, published Feb. 17, 1953.

Oils and greases, Lubricating. E. F. Houghton & Co. 302,902, May 2, 1933. Republished May 26.

Oils, Cutting. E. F. Houghton & Co. 302,904, May 2, 1933. Republished May 26.

Oils, Engine and automobile lubricating. Penn American Refining Co. 127,864, Dec. 9, 1919. Republished May 26.

Oils, Lubricating, and petroleum waxes. Commerce Oil Corporation. 574,874, May 26; Serial No. 613,905, published Feb. 17, 1953.

CLASS 16

Coating composition, Wax. R. T. Vanderbilt Company, Inc. 574,888, May 26; Serial No. 618,017, published Mar. 3, 1953.

Coating, Waterproof hard, glossy floor finish. West Disinfecting Company. 574,933, May 26; Serial No. 625,379, published Mar. 3, 1953.

Paint additives. R. Hepner. 574,833, May 26; Serial No. 591,280, published Mar. 3, 1953.

Paint coating, Waterproof. Armor Laboratories, Inc. 444,773, May 26; Serial No. 481,039, published Jan. 6, 1953.

Paint, Decorative exterior and interior stucco, and plastic paint. Mobile Paint Manufacturing Company of Delaware, Inc. 574,843, May 26; Serial No. 598,197, published Mar. 3, 1953.

Paint, Ready-mixed flat. Eagle Paint & Varnish Works, Inc. 574,838, May 26; Serial No. 595,067, published Mar. 3, 1953.

Paint, Ready mixed flat wall. Minnesota Paints, Inc. 574,898, May 26; Serial No. 619,642, published Mar. 3, 1953.

Paint, Washable wall. Keystone Paint and Varnish Corporation. 575,008, May 26; Serial No. 634,047, published Mar. 3, 1953.

Paints and inside and outside finish varnishes. Weather-Seal Inc. 574,859, May 26; Serial No. 606,993, published Mar. 3, 1953.

Paints, paint enamels, varnishes, etc. Missouri Paint & Varnish Co. 574,806, May 26; Serial No. 532,619, published Aug. 26, 1952.

Paints, Ready-mixed. International Paint Company, Inc. 574,914, May 26; Serial No. 622,440, published Mar. 3, 1953.

Paints, Waterproof. Arthur C. Mangels Industries. 574,852, May 26; Serial No. 601,681, published Mar. 3, 1953.

CLASS 17

Cigarettes, Carreras Limited. 574,864, May 26; Serial No. 610,200, published Mar. 10, 1953.

Cigars. Havana Cigar & Tobacco Factories, Ltd. 92,892, re-renewed Aug. 5, 1953. O. G. May 26.

Cigars. Thompson & Company, Inc. 574,840, May 26; Serial No. 595,628, published Mar. 10, 1953.

Snuff. Joseph & Henry Wilson Limited. 92,024, re-renewed June 10, 1953. O. G. May 26.

Tobacco, Pipe. F. C. Hetzel. 574,892, May 26; Serial No. 618,646, published Mar. 10, 1953.

CLASS 18

Analgesic compound, Liquid. The Berjon Company. 575,028, May 26; Serial No. 637,857, published Feb. 10, 1953.

Antibacterial baby bath preparation. Sterling Drug Inc. 574,909, May 26; Serial No. 621,533, published Feb. 10, 1953.

Antibiotics for veterinary use. Merck & Co. Inc. 575,029, May 26; Serial No. 638,266, published Feb. 10, 1953.

Bred sow and pig concentrate. Nixon & Company (Nebraska). 574,946, May 26; Serial No. 626,587, published Feb. 10, 1953.

Cardiac drug. Barlow-Maney Laboratories, Incorporated. 574,923, May 26; Serial No. 623,268, published Feb. 10, 1953.

Cobra venom solution. Hynson, Westcott & Dunning, Incorporated. 574,959, May 26; Serial No. 628,627, published Feb. 10, 1953.

Cough medication, Liquid. Schenley Laboratories, Inc. 575,024, May 26; Serial No. 636,384, published Mar. 10, 1953.

Deodorant tablet. Carter Products, Inc. 574,900, May 26; Serial No. 619,872, published Feb. 10, 1953.

Dietary supplement. Borun Bros. 574,894, May 26; Serial No. 619,154, published Feb. 17, 1953.

Douche tablet, Nutrient buffered vaginal. Ortho Pharmaceutical Corporation. 574,904, May 26; Serial No. 620,787, published Feb. 10, 1953.

Food and vitamin supplement. Knappen Sales Company. 574,871, May 26; Serial No. 613,136, published Feb. 10, 1953.

Medical preparation. Physicians and Hospitals Supply Company, Inc. 574,964, May 26; Serial No. 629,037, published Feb. 10, 1953.

Medicated repeat action tablets. Schering Corporation. 574,875, May 26; Serial No. 614,167, published Feb. 17, 1953.

Medicinal preparation. M. Broden. 574,990, May 26; Serial No. 632,713, published Feb. 10, 1953.

Medicinal preparation. The Knox Company. 574,866, May 26; Serial No. 610,912, published Jan. 8, 1952.

Medicinal preparation. Nepera Chemical Co. Inc. 574,995, May 26; Serial No. 620,928, published Feb. 10, 1953.

Medicinal preparation. The Upjohn Company. 575,020–1, May 26; Serial Nos. 634,814–15, published Feb. 17, 1953.

Medicinal preparations. Desbergers Limited. 574,996, May 26; Serial No. 632,979, published Mar. 3, 1953.

Medicinal product. Schenley Laboratories, Inc. 574,857, May 26; Serial No. 605,178, published Feb. 10, 1953.

Medicinal streptokinase. Organon Inc. 574,992, May 26; Serial No. 632,847, published Mar. 3, 1953.

Mineral oil, quinine, peroxide of hydrogen, etc. T. D. Perkins. 303,560, renewed May 30, 1953. O. G. May 26.

Nasal spray preparation. Na-Spra, Incorporated. 574,831, May 26; Serial No. 589,799, published Feb. 10, 1953.

Ointment base for medicinals, Diffusible. Allied Laboratories, Inc. 574,987, May 26; Serial No. 632,141, published Feb. 10, 1953.

Pharmaceutical and therapeutic formulations and preparations. Ortho Pharmaceutical Corporation. 574,913, May 26; Serial No. 622,167, published Feb. 10, 1953.

Pharmaceutical in tablet form. Nutrition Research Laboratories, Inc. 575,060, May 26; Serial No. 633,320, published Feb. 10, 1953.

Pharmaceutical preparation. Organon Inc. 574,997, May 26; Serial No. 633,166, published Feb. 10, 1953.

Pharmaceutical preparation. Physiological Chemicals Company, Inc. 574,841, May 26; Serial No. 590,294, published Feb. 10, 1953.

Preparation for the treatment of amoebic dysentery. Parke, Davis & Company. 575,019, May 26. Serial No. 634,751, published Feb. 17, 1953.

Preparation for the treatment of streptomycin resistant tuberculosis. Parke, Davis & Company. 575,018, May 26; Serial No. 634,749, published Feb. 17, 1953.

Preparation that can be used for external application for bed sores and other external infections, etc. H. Chiego. 574,819, May 26; Serial No. 575,243, published Oct. 7, 1952.

Preparations containing beta-amylose tri-iodide. Thomas Jordan, Incorporated. 574,880, May 26; Serial No. 617,035, published Feb. 10, 1953.

Product, in lotion and ointment form, for treatment of pimples and oily condition of skin. Schieffelin & Co. 575,002, May 26; Serial No. 633,433, published Feb. 17, 1953.

Product, in lotion form, for treatment of scalp and skin. Schieffelin & Co. 575,003, May 26; Serial No. 633,434, published Feb. 17, 1953.

Purgament and preparation for treating obesity. Brady & Schmidgall. 301,536, renewed Mar. 7, 1953. O. G. May 26.

Quaternary ammonium salts. Nopco Chemical Company. 574,965, May 26; Serial No. 620,179, published Mar. 10, 1953.

Sulfonamide. Schering Corporation. 575,001, May 26; Serial No. 633,332, published Feb. 10, 1953.

Sulfonamide preparations. Nordmark-Werke Gesellschaft mit beschraenkter Haftung. 574,881, May 26; Serial No. 617,206, published Feb. 10, 1953.

Suppositories, Hemorrhoidal. Cilag Aktiengesellschaft. 574,925, May 26; Serial No. 623,948, published Feb. 10, 1953.

Tablets for internal use to relieve coughs, etc. Chilton Laboratories, Inc. 574,993, May 26; Serial No. 632,874, published Feb. 10, 1953.

Tablets for the organic fixation of phosphorous, calcium, and iron. Pharmacie Principale de la Porte d'Orleans. 574,818, May 26; Serial No. 574,922, published Feb. 10, 1953.

Vaginal suppositories, Antiseptic. R. P. Helm. 304,143, renewed June 20, 1953. O. G. May 26.

Veterinary liquid preparation, External. J. A. Fitzsimmons. 574,878, May 26; Serial No. 616,628, published Feb. 10, 1953.

Vitamin A preparation. Xenoteck, Inc. 574,907, May 26; Serial No. 621,192, published Feb. 10, 1953.

Vitamin supplements. The Ray Ewing Company. 574,906, May 26; Serial No. 621,006, published Feb. 10, 1953.

CLASS 19

Bicycles and parts thereof. Arnold, Schwinn & Co. 574,813, May 26; Serial No. 568,564, published Feb. 24, 1953.

Trucks, Used and new. Ruby Chevrolet, Inc. 574,867, May 26; Serial No. 611,310, published Mar. 3, 1953.

CLASS 21

Batteries and component parts thereof, Electric storage. Clarite Battery, Inc. 574,926, May 26; Serial No. 624,174, published Feb. 24, 1953.

Battery clamps, terminals, and connectors; electrical cables; etc. Firestone Battery Company. 299,825, renewed Dec. 27, 1952. O. G. May 26.

Battery clamps, terminals and connectors, electrical cables, and storage battery parts, etc. Firestone Battery Company. 299,977, renewed Jan. 3, 1953. O. G. May 26.

Bulbs, Incandescent electric. Tung-Sol Lamp Works, Inc. 301,328, renewed Feb. 28, 1953. O. G. May 26.

Coils, Electrical. Anaconda Wire and Cable Company. 304,058, renewed June 20, 1953. O. G. May 26.

Coils, Electrical. Anaconda Wire and Cable Company. 304,309, renewed June 27, 1953. O. G. May 26.

Communication and signaling devices, electric circuit controls. H. O. Boehme, Inc. 574,961, May 26; Serial No. 628,841, published Feb. 24, 1953.

Electric drills, Hand operated. C. F. Coake. 574,912, May 26; Serial No. 621,866, published Feb. 24, 1953.

Loud-speaker and amplifier units, Combined. Bendix Aviation Corporation. 574,915, May 26; Serial No. 622,525, published Feb. 24, 1953.

Radio and television receiving sets, electric irons, electric toasters, etc. Arkwright, Incorporated. 574,969, May 26; Serial No. 620,713, published Feb. 24, 1953.

Resistors such as used in radio apparatus. International Resistance Company. 304,723, renewed July 18, 1953. O. G. May 26.

Spark-plugs. Champion Spark Plug Company. 92,949–50, re-renewed Aug. 12, 1953. O. G. May 26.

Spark plugs, storage batteries, and storage battery parts, etc. Firestone Battery Company. 302,945, renewed May 2, 1953. O. G. May 26.

Transformers, Geophysical. Triad Transformer Mfg. Co. 574,846, May 26; Serial No. 598,618, published Feb. 24, 1953.

Voice communicating systems between stations. Société à Responsabilité limitée: Le Teleamplifphone. 574,910, May 26; Serial No. 621,587, published Feb. 24, 1953.

CLASS 22

Balls, Billiard. Albany Billiard Ball Company. 574,829, May 26; Serial No. 587,226, published Feb. 24, 1953.

Beach mats. Abercrombie & Fitch Company. 574,842, May 26; Serial No. 597,309, published Mar. 3, 1953.

Fishing lures, Artificial. The Hofschneider Corporation. 574,830, May 26; Serial No. 587,552, published Mar. 3, 1953.

Golf clubs. D. Longworth. 301,679, renewed Mar. 7, 1953. O. G. May 26.

CLASS 23

Autographic registers. American Sales Book Company, Limited. 299,928, Jan. 3, 1933. Republished May 26.

Cutlery. Arkwright, Incorporated. 574,974, May 26; Serial No. 630,303, published Feb. 3, 1953.

Lawn mowers. Qualcast Limited. 574,963, May 26; Serial No. 628,874, published Feb. 3, 1953.

Livestock oiler and insecticide applicator, Mechanical. R. Caldwell. 574,949, May 26; Serial No. 627,319, published Feb. 3, 1953.

Machinery, Farm. The Warner Steel Products Company, Inc. 574,957, May 26; Serial No. 628,448, published Feb. 3, 1953.

Pipe making machines; grain mills; cold rolling mills (small); etc. Treadwell Engineering Company. 574,869, May 26; Serial No. 547,195, published Feb. 10, 1953.

Planers, Mining coal, mining chutes, coal conveyors, etc. Gewerkschaft Eisenhütte Westfalia. 574,822, May 26; Serial No. 580,034, published Feb. 3, 1953.

Plows, Continental Copper & Steel Industries, Inc. 574,896, May 26; Serial No. 619,447, published Feb. 3, 1953.

Plows, Continental Copper & Steel Industries, Inc. 574,897, May 26; Serial No. 619,450, published Jan. 20, 1953.

Printing presses, Rotary, stereotype-casting boxes and stereotype-plate-trimming mechanism. The Goss Printing Press Company. 574,917, May 26; Serial No. 622,994, published Jan. 20, 1953.

Pumps, Centrifugal. A. S. Cameron Steam Pump Works. 574,879, May 26; Serial No. 616,939, published Feb. 10, 1953.

Rolling mill machinery; hot transfer machinery, hot transfer drives; etc. Treadwell Engineering Company. 574,808, May 26; Serial No. 547,194, published Feb. 10, 1953.

Tool, Railroad car moving. Advance Car Mover Company, Inc. 574,884, May 26; Serial No. 617,323, published Feb. 3, 1953.

Tools and utensils, Kitchen. The A. & J. Manufacturing Co. 298,929, renewed Nov. 15, 1952. O. G. May 26.

Tools, High precision machine. Société Genevoise d'Instruments de Physique. 574,886, May 26; Serial No. 617,819, published Jan. 20, 1953.

Vibrating machines, Power operated. Electric Tamper & Equipment Co. 574,812, May 26; Serial No. 567,395, published Dec. 30, 1952.

Vibrating screens. Productive Equipment Corporation. 574,825, May 26; Serial No. 584,947, published Jan. 20, 1953.

CLASS 24

Clothesline tape-reel and tape. Reelist, Inc. 574,945, May 26; Serial No. 626,471, published Mar. 10, 1953.

Washing machines, Electric laundry, electric ironers, electric portable clothes washers, etc. Aldens, Inc. 574,934, May 26; Serial No. 625,387, published Mar. 10, 1953.

CLASS 25

Safes. Herring-Hall-Marvin Safe Company. 70,369, Aug. 25, 1908. Republished May 26.

Safes. Herring-Hall-Marvin Safe Company. 70,411, Aug. 25, 1908. Republished May 26.

Strong boxes, Portable, cash boxes, bond boxes. The Hamilton Metal Products Company. 574,869, May 26; Serial No. 612,613, published Mar. 10, 1953.

CLASS 26

Apparatus for measuring distances by reflected sound waves or by similar acoustic methods. Raytheon Manufacturing Company. 574,938, May 26; Serial No. 625,692, published Feb. 3, 1953.

Cameras, camera magazines, photographic viewfinders, etc. Fairchild Camera and Instrument Corporation. 574,850, May 26; Serial No. 600,750, published Jan. 13, 1953.

Gauge, Sewing and knitting. The Hoye Needle Company. 574,980, May 26; Serial No. 631,537, published Mar. 10, 1953.

Indicating and/or recording instruments, controlling instruments, anemographs, etc. Bendix Aviation Corporation. 574,998, May 26; Serial No. 633,244, published Mar. 10, 1953.

Instrument which is a calibrated variable frequency marker pip generator. Kay Electric Company. 574,873, May 26; Serial No. 613,455, published Mar. 10, 1953.

Lenses for eye-glasses, prisms for optical use, etc. Filotecnica Salmoiraghi S. A. 574,853, May 26; Serial No. 601,897, published Jan. 13, 1953.

Lenses, Ophthalmic. N. P. Benson Optical Company. 574,919, May 26; Serial No. 623,039, published Jan. 27, 1953.

Levels, Spirit. The Sand's Level and Tool Company. 574,807, May 26; Serial No. 539,569, published Jan. 13, 1953.

Machinery and equipment used in the graphic arts industry; cameras, and apparatus for preparing printing plates. Jones Graphic Products Company. 574,832, May 26; Serial No. 590,226, published Mar. 10, 1953.

Measuring instruments and indicators, Weather. A. Davis. 574,824, May 26; Serial No. 583,680, published Oct. 7, 1952.

Meters. F. W. Gulbert. 574,889, May 26; Serial No. 618,578, published Jan. 27, 1953.

Motion picture films. Radiovision Corporation. 575,039, May 26; Serial No. 529,087.

Photographic papers, plates, films, etc., Sensitized. Gevaert Photo-Producten, Naamlooze Vennootschap (Société Anonyme Photo-Produits Gevaert). 298,975, renewed Nov. 15, 1952. O. G. May 26.

Projection screens, film projectors, and parts thereof. Trans-Lux Corporation. 574,837, May 26; Serial No. 594,817, published Jan. 27, 1953.

Recorders for vehicles and industrial machines, and odometers. Knopf Instrument Company. 574,899, May 26; Serial No. 619,761, published Feb. 3, 1953.

Spectacle container. F. J. Maier. 574,922, May 26; Serial No. 623,252, published Jan. 27, 1953.

Spectacle-glasses. Radtke & Wahl Gesellschaft mit beschränkter Haftung. 574,902, May 26; Serial No. 620,553, published Jan. 27, 1953.

CLASS 29

Rubber squeegees, spotting brushes, coloring brushes, etc. Eastman Kodak Company. 575,026, May 26; Serial No. 637,174, published Feb. 24, 1953.

CLASS 31

Drain pans for refrigeration coils. W. J. Harbers & Co. 575,045, May 26; Serial No. 594,124.

CLASS 32

Cases and cabinets, Advertising. American Can Company. 301,556, renewed Mar. 7, 1953. O. G. May 26.

Clothes cabinets or lockers, Metal. Steel Service, Inc. 574,975, May 26; Serial No. 630,357, published Mar. 10, 1953.

Cushions and pillows. Purofied Down Products Corp. 574,870, May 26; Serial No. 613,110, published Mar. 10, 1953.

Filing cases. Convoy, Incorporated. 574,978, May 26; Serial No. 631,147, published Mar. 10, 1953.

Mattresses. Storkline Furniture Corporation. 574,982, May 26; Serial No. 631,638, published Mar. 10, 1953.

Mattresses, box springs, bed springs, etc. Enterprise-Moakler Co. Inc. 574,826, May 26; Serial No. 585,222, published Jan. 13, 1952.

Metal racks. Lewis-Shepard Products, Inc. 574,891, May 26; Serial No. 618,587, published Mar. 10, 1953.

Tables, Cocktail, coffee tables, and multiple purpose tables. Meier & Pohlmann Furniture Company. 574,885, May 26; Serial No. 617,704, published Mar. 10, 1953.

Turntables for chairs, tables, consoles, etc. R. F. Schoenback. 574,911, May 26; Serial No. 621,686, published Mar. 10, 1953.

Venetian blinds. Alum-No Tape Venetian Blind Corporation. 574,939, May 26; Serial No. 625,780, published Mar. 10, 1953.

CLASS 34

Heater, Domestic hot water. Williams Oil-O-Matic Heating Corporation. 304,065, renewed July 25, 1953. O. G. May 26.

CLASS 35

Belting, Leather. E. F. Houghton & Co. 303,980, June 13, 1933. Republished May 26.

Tire covers. The Firestone Tire & Rubber Company. 303,872, renewed June 13, 1953. O. G. May 26.

CLASS 36

Graphophones, gramophones, and parts thereof and records. The Vitaphone Co. 90,851, re-renewed Mar. 25, 1953. O. G. May 26.

Phonograph records, Grooved. H. H. Koven. 574,927, May 26; Serial No. 624,237, published Mar. 10, 1953.

Phonograph records, Grooved, and non-electrical and non-magnetized recording wire and recording tape, etc. C. Schoos Fabelker A/S. 574,855, May 26; Serial No. 604,356, published Mar. 10, 1953.

Strings for violins and similar musical instruments. Simson & Frey, Inc. 305,485, renewed Aug. 15, 1953. O. G. May 26.

CLASS 37

Bristol board, bristol board in pad form, panels used for art painting, etc. Institute of Commercial Art, Inc. 574,844, May 26; Serial No. 598,257, published Dec. 30, 1952.

Crayon-like marking implements. The Markal Co. 574,851, May 26; Serial No. 601,268, published Dec. 30, 1952.

Examination books. Western Tablet & Stationery Corporation. 574,805, May 26; Serial No. 526,101, published Dec. 30, 1952.
Paperboard. The Gardner Board and Carton Co. 574,882, May 26; Serial No. 617,287, published Dec. 30, 1952.
Paper, Glassine. Riegal Paper Corporation. 301,601, Feb. 14, 1933. Republished May 26.
Paper napkins. I. W. Berkman. 574,849, May 26; Serial No. 600,464, published Dec. 30, 1952.
Paper, Toilet. The Biltmore Paper Co., Inc. 301,929, renewed Mar. 21, 1953. O. G. May 26.
Paper, Wrapping, and butchers paper. Gulf States Paper Corporation. 574,856, May 26; Serial No. 605,160, published Dec. 30, 1952.
Paper, Writing and printing. American Writing Paper Company. 91,543, May 13, 1913. Republished May 26.
Paper, Writing and printing. Hampshire Paper Company. 301,385, renewed Feb. 28, 1953. O. G. May 26.
Paper, Writing and printing. Hampshire Paper Company. 301,387, Feb. 28, 1933. Republished May 26.
Paper, Writing, printing, and tissue. C. H. Dexter & Sons. 88,555–6, re-renewed Oct. 1, 1952. O. G. May 26.
Stencils. A. C. Gibson Co. Inc. 574,814, May 26; Serial No. 568,727, published Dec. 30, 1952.

CLASS 38

Booklet. Renée of Hollywood. 574,877, May 26; Serial No. 616,511, published Feb. 17, 1953.
Columns and articles in newspspapers and magazines, pamphlets, etc. Petroleum Information. 575,016, May 26; Serial No. 634,708, published Mar. 3, 1953.
Department or section of a periodical publication. Weekly Publications, Inc. 574,890, May 26; Serial No. 620,059, published Feb. 17, 1953.
Department, section or feature in a magazine. McCall Corporation. 575,007, May 26; Serial No. 633,941, published Feb. 24, 1953.
House organ. Decatur Pump Company. 575,011, May 26; Serial No. 634,245, published Mar. 3, 1953.
House organ. Kropp Forge Company. 575,009, May 26; Serial No. 634,092, published Mar. 3, 1953.
Magazine. The Wesleyan University Press Incorporated. 574,960, May 26; Serial No. 628,727, published Mar. 3, 1953.
Magazine. Ziff-Davis Publishing Company. 575,031, May 26; Serial No. 634,675, published Mar. 3, 1953.
Maps, Abstract ownership. O. F. Warren. 574,979, May 26; Serial No. 631,184, published Feb. 24, 1953.
Periodical, Monthly. Brown & Bigelow. 92,944, re-renewed Aug. 12, 1953. O. G. May 26.
Periodical, Technical. Chas. Pfizer & Co., Inc. 575,017, May 26; Serial No. 634,710, published Mar. 3, 1953.
Printed horological charts. S. W. Boggs. 300,877, renewed Feb. 14, 1953. O. G. May 26.
Prints. General Research and Supply Co. 574,883, May 26; Serial No. 617,289, published Feb. 17, 1953.
Publication. M. White. 574,988, May 26; Serial No. 632,189, published Mar. 3, 1953.
Publication, Political. J. D. Tracy. 575,004, May 26; Serial No. 633,518, published Feb. 24, 1953.
Publications, Series of literary. Educational Comics, Inc. 574,977, May 26; Serial No. 630,670, published Mar. 3, 1953.
Textbooks, Accounting. Charles R. Hadley Company. 574,836, May 26; Serial No. 593,346, published Mar. 3, 1953.

CLASS 39

Brassières, girdles, corsets, and other foundation garments. Enchantress Foundations, Inc. 574,994–5, May 26; Serial Nos. 632,878–9, published Mar. 3, 1953.
Brassières, girdles, corsets, etc. The Formfit Company. 575,012, May 26; Serial No. 634,250, published Mar. 3, 1953.
Dresses, suits, and coats, Ladies' and misses'. Louis Levine & Sons, Inc. of Ohio. 574,865, May 26; Serial No. 610,856, published Mar. 3, 1953.
Garments, Maternity. O. V. Klein. 574,918, May 26; Serial No. 622,999, published Mar. 3, 1953.
Gloves, Woven fabric. Advance Glove Manufacturing Company. 574,986, May 26; Serial No. 632,107, published Mar. 3, 1953.
Palm and finger stall protective covers for gloves. Advance Glove Manufacturing Company. 574,989, May 26; Serial No. 632,460, published Mar. 3, 1953.
Underwear and hosiery, Knitted and textile. Vanity Fair Silk Mills. 304,520, renewed July 11, 1953. O. G. May 26.
Underwear, Men's and boys' athletic. Rice-Stix Dry Goods Company. 92,829, re-renewed July 29, 1953. O. G. May 26.
Wearing apparel, Ladies'. Dutchess Underwear Corporation. 575,014–15, May 26; Serial Nos. 634,635–6, published Mar. 3, 1953.

CLASS 40

Hook and eye fastenings. Hook-Flex Company. 574,947, May 26; Serial No. 626,675, published Dec. 30, 1952.
Slides, fasteners, and rings for use on sanitary belts. Non-corrosive metal adjustment. Beltx Corporation. 574,845, May 26; Serial No. 598,348, published Dec. 30, 1952.

CLASS 42

Fabrics, Decorative woven. Neisler Mills, Inc. 301,514, renewed Mar. 7, 1953. O. G. May 26.
Fabrics, Textile. C. Goldman. 287,898, renewed Oct. 13, 1951. O. G. May 26.
Napkins, Table. Neisler Mills, Inc. 302,099, renewed Mar. 28, 1953. O. G. May 26.
Piece goods. A. S. Eiseman. 304,713, renewed July 18, 1953. O. G. May 26.
Piece goods, Silk. M. C. Migel & Co. 90,560, re-renewed Mar. 4, 1953. O. G. May 26.

CLASS 43

Yarn, Viscose rayon carpet. Cabin Crafts, Inc. 575,010, May 26; Serial No. 634,139, published Mar. 3, 1953.

CLASS 44

Veterinarian appliances. Willard's Manufacturing Company. 575,050, May 26; Serial No. 616,332.

CLASS 46

Asparagus, Fresh and canned. Zuckerman Mandeville Inc. 574,839, May 26; Serial No. 595,435, published Feb. 3, 1953.
Beef steaks, Frozen raw. Grand Duchess Steaks, Inc. 574,847, May 26; Serial No. 600,332, published June 24, 1952.
Butter and other dairy products. Des Moines Co-Operative Dairy. 574,876, May 26; Serial No. 615,888, published Feb. 24, 1953.
Cakes, candy, pastries, etc. S. P. A. Motta. 575,041, May 26; Serial No. 570,875.
Candies. Life Savers Corporation. 575,057, May 26; Serial No. 641,850.
Candy. Mrs. W. F. Beier. 301,440, renewed Feb. 28, 1953. O. G. May 26.
Candy. H. Heide. 92,794, re-renewed July 29, 1953. O. G. May 26.
Canned fruits, canned vegetables, canned berries, etc. United Growers, Inc. 575,035, May 26; Serial No. 635,859.
Canned fruits, fruit preserves, jellies, etc. The C. H. Musselman Company. 304,223, renewed June 27, 1953. O. G. May 26.
Canned sardines. Victor M. Calderon Co., Inc. 352,951, Dec. 21, 1937. Republished May 26.
Canned vegetables. Kenneth N. Rider Company, Inc. 574,872, May 26; Serial No. 613,383, published Oct. 28, 1952.
Canned vegetables, canned fruits. L. Pullel. 575,053, May 26; Serial No. 628,712.
Cereal food product. Elmer Candy Company. 574,985, May 26; Serial No. 632,080, published Feb. 24, 1953.
Cherries, apricots, peaches, etc., Fresh. California Fruit Exchange. 92,532, re-renewed July 15, 1953. O. G. May 26.
Chicken chop suey, chicken chow mein, noodles, etc. Chinese Food Cannery of America, Inc. 574,942–3, May 26; Serial Nos. 626,310–11, published Mar. 3, 1953.
Coffee. S. A. Schonbrunn & Co., Inc. 575,046, May 26; Serial No. 594,150.
Confections, Frozen. Southern Dairies, Inc. 301,719, renewed Mar. 14, 1953. O. G. May 26.
Corn, Frozen fresh yellow sweet; dried sweet corn. J. F. Cope. 575,054, May 26; Serial No. 632,243.
Dates. Habicht, Braun & Co. 302,797, renewed Apr. 25, 1953. O. G. May 26.
Feed. La Pryor Milling Co. 575,051, May 26; Serial No. 622,077.
Feed, Supplemental. Stoddard Associated Milling Company. 574,928, May 26; Serial No. 624,427, published Mar. 3, 1953.
Flour, Wheat. The Colorado Milling & Elevator Co. 575,056, May 26; Serial No. 637,114.
Flour, Wheat. The Quaker Oats Company. 302,779, renewed Apr. 25, 1953. O. G. May 26.
Food, Moist type. Wilson & Co., Inc. 574,932, May 26; Serial No. 625,087, published Mar. 3, 1953.
French dressing, sweet pickles, sandwich spread, etc. Hetter Products Co. 574,901, May 26; Serial No. 620,299, published Feb. 24, 1953.
Fruits, Fresh citrus. Exeter Orange Growers Association. 574,810, May 26; Serial No. 554,968, published Sept. 23, 1952.
Ice cream cones. Krispy Kake Kone Kompany, Inc. 575,043, May 26; Serial No. 575,355.
Lactalbumin. The Borden Company. 575,042, May 26; Serial No. 573,290.
Lard. The Cudahy Packing Co. 40,209, re-renewed Apr. 28, 1953. O. G. May 26.
Macaroni. Mother's Macaroni Company. 90,907, re-renewed Apr. 1, 1953. O. G. May 26.
Malt extracts and malt syrups for food purposes. Christie & Hoover. 301,774, renewed Mar. 14, 1953. O. G. May 26.
Malt syrup. P. Ballantine & Sons. 302,388, renewed Apr. 18, 1953. O. G. May 26.
Meats, Frozen. A. H. Greer. 575,040, May 26; Serial No. 537,687.
Nuts, Cashew. Peanut Corporation of America. 575,049, May 26; Serial No. 614,463.

Peas, Frozen garden. John H. Dulany & Son, Inc. 575,044, May 26; Serial No. 579,808.
Popcorn. Henry F. Gettelfinger & Sons. 575,052, May 26; Serial No. 628,151.
Rice. Beaumont Rice Mills. 92,390, re-renewed July 8, 1953. O. G. May 26.
Rice. Beaumont Rice Mills. 92,509, re-renewed July 15, 1953. O. G. May 26.
Turkeys, Frozen. Armour and Company. 574,940, May 26; Serial No. 625,955, published Feb. 24, 1953.
Vegetable oil, Refined pure. The Capital City Products Company. 304,832, renewed July 18, 1953. O. G. May 26.
Wheat-flour. New Prague Flouring Mill Company. 91,507, re-renewed May 6, 1953. O. G. May 26.

CLASS 47

Wines. Moussec Limited. 304,963, renewed July 25, 1953. O. G. May 26.

CLASS 48

Malt beverages. Christie & Hoover. 301,299, renewed Feb. 28, 1953. O. G. May 26.

CLASS 49

Whiskey. Bloch Bros. 301,286, renewed Feb. 21, 1953. O. G. May 26.
Whiskey. Bloch Bros. 301,288, renewed Feb. 21, 1953. O. G. May 26.
Whiskey. Bloch Bros. 301,290, renewed Feb. 21, 1953. O. G. May 26.
Whiskey. Bloch Bros. 301,298, renewed Feb. 28, 1953. O. G. May 26.
Whiskey. Bloch Bros. 302,030, renewed Mar. 21, 1953. O. G. May 26.
Whisky. T. C. Dennehy. 305,189, renewed Aug. 8, 1953. O. G. May 26.
Whisky. The Glenfyne Distillery Company Limited. 302,733, Apr. 25, 1933; republished May 26, 1953.
Whisky. Macdonald, Greenless Limited. 303,538, renewed May 30, 1953. O. G. May 26.
Whisky. Macdonald Greenless Limited. 304,748, renewed July 18, 1953. O. G. May 26.

CLASS 51

Dentifrices. R. Magon. 574,823, May 26; Serial No. 582,438, published Feb. 24, 1953.
Denture adhesive powder. S. M. Edison. 302,793, renewed Apr. 25, 1953. O. G. May 26.
Perfumes, face powder, face cream, etc. Union Trading Company, Ltd. 574,827, May 26; Serial No. 586,369, published Feb. 17, 1953.
Perfumes, face powder, face cream, etc. Union Trading Company Ltd. 574,828, May 26; Serial No. 586,376, published Feb. 17, 1953.
Perfumes, hand cream, cleansing cream, etc. F. M. Kahn. 574,860, May 26; Serial No. 607,331, published Feb. 17, 1953.

CLASS 52

Cleaning compounds. Alex. C. Fergusson Co. 297,262, Sept. 6, 1932; republished May 26, 1953.
Detergent composition. Wyandotte Chemicals Corporation. 574,834, May 26; Serial No. 591,533, published Oct. 16, 1951.
Detergents, soaps, and cleaning and washing compounds. Stepan Chemical Company. 574,895, May 26; Serial No. 619,268, published Feb. 3, 1953.
Shampoo, Hair. L. F. Feldman. 574,811, May 26; Serial No. 563,847, published Jan. 31, 1950.

CLASS 100

Consulting engineering and architectural services. Anderson-Nichols & Company. 575,033, May 26; Serial No. 610,663, published Mar. 3, 1953.
Sponsoring of visits of groups of foreign children to the United States, etc. Children's International Summer Villages, Inc. 575,034, May 26; Serial No. 620,459, published Mar. 3, 1953.

CLASS 103

Cleaning, painting, and repairing all types of steel structures. Steel & Tank Service Company. 575,036, May 26; Serial No. 627,780, published Mar. 3, 1953.
Constructing, installing, and dismantling industrial plants and equipment. Engineers Limited Mechanical Construction Co. 575,035, May 26; Serial No. 622,016, published Mar. 3, 1953.

CLASS 104

Radio program broadcasting. Booth Radio & Television Stations, Inc. 575,037, May 26; Serial No. 627,790, published Mar. 3, 1953.

CLASS 106

Consulting and laboratory services. Wm. J. Stange Co. 575,032, May 26; Serial No. 584,702, published Oct. 24, 1950.
Duplicating prints of originals of 16 mm. colored motion picture film. Byron, Inc. 575,058, May 26; Serial No. 610,541.

CLASS 107

Entertainment service. P. McQuillan. 575,038, May 26; Serial No. 632,257, published Mar. 3, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Able, Edward T., and W. Krieger, assignors to B. K. Sweeney Mfg. Co., Denver, Colo. Socket wrench extension. Re. 23,661, May 26.

Andrews, Steve J., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. Re. 23,660, May 26.

Krieger, Willard: *See*—
Able, Edward T., and Krieger.

Larkin, Charles R., Toledo, Ohio, assignor of one-half to G. M. Larkin. Barbecue appliance. Re. 23,662, May 26.

Larkin, Glen M., assignee: *See*—
Larkin, Charles R.

Sweeney, B. K., Mfg. Co., assignee: *See*—
Able, Edward T., and Krieger.

Tinnerman Products, Inc., assignee: *See*—
Andrews, Steve J.

LIST OF DESIGN PATENTEES

Afco-Lite Corporation, assignee: *See*—
Rusnak, William, and Stoll.

Atkinson, William A., Greggton, Tex. Warming bag or the like. 169,650, May 26.

Augenstein, Karl C., Cranston, assignor to Speidel Corporation, Providence, R. I. Expansible chain for a bracelet or similar article. 169,651, May 26.

Bennett, Herbert L., assignor to Dixie Cup Company, Easton, Pa. Paper cup holder or similar article. 169,654, May 26.

Bialo, Walter, New Rochelle, N. Y. Corner guard for luggage. 169,652, May 26.

Boucher, Marcel, Ellingville, N. Y. Necklace or similar article. 169,653, May 26.

Brown, Paul, New Rochelle, assignor to Paul Brown-Greher, Inc., New York, N. Y. Lady's handbag. 169,655, May 26.

Christians, George E.: *See*—
Ries, Edward J., and Christians.

Continental Silver Co. Inc., assignee: *See*—
Gruen, Robert L.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Cox, Herman E., Norfolk, Va. Nutcracker. 169,656, May 26.

Cravey, Vivian E., Houston, Tex. Combined book end and receptacle. 169,657, May 26.

Dart, William F., Mason, Mich. Measuring tape housing. 169,658, May 26.

Dixie Cup Company, assignee: *See*—
Bennett, Herbert L.

Dunlop Tire and Rubber Corporation, assignee: *See*—
Hardeman, William E.

Goodman, Daniel: *See*—
Quigley, Stephen M., and Goodman.

Gottlieb, Joseph, Jersey City, N. J. Clockcase or similar article. 169,659, May 26.

Gross, Irmi A., New York, N. Y. Lamp. 169,660, May 26.

Gross, Irmi A., New York, N. Y. Lamp. 169,661, May 26.

Gross, Irmi A., New York, N. Y. Lamp. 169,662, May 26.

Gross, Irmi A., New York, N. Y. Lamp. 169,663, May 26.

Gross, Irmi A., New York, N. Y. Lamp. 169,664, May 26.

Gruen, Robert L., New York, N. Y., assignor to Continental Silver Co. Inc. Food warmer or similar article. 169,665, May 26.

Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Place mat or similar article. 169,666, May 26.

Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Place mat or similar article. 169,667, May 26.

Hardeman, William E., Solihull, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Tire. 169,668, May 26.

Hardy, William H., River Edge, N. J. Handbag. 169,669, May 26.

Homan, Matilda E., Los Angeles, Calif. Cape. 169,670, May 26.

Homme, Frank, Minot, N. Dak. Sign. 169,671, May 26.

Hopkins, Richard E., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Tiltable board game apparatus. 169,672, May 26.

Horton, Bert, New York, N. Y. Brush or similar article. 169,673, May 26.

Hyams, Herbert, New York, N. Y. Display unit. 169,674, May 26.

International Business Machines Corporation, assignee: *See*—
Kress, George H., and Sundberg.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 169,675, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,676, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,677, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,678, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch or the like. 169,679, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,680, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,681, May 26.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,682, May 26.

Kellerman, Sam, Yonkers, N. Y. Belt. 169,683, May 26.

Kress, George H., Endwell, N. Y., and C. W. Sundberg, Detroit, Mich., assignors to International Business Machines Corporation, New York, N. Y. Magnetic drum unit. 169,684, May 26.

Kress, George H., Endwell, N. Y., and C. W. Sundberg, Detroit, Mich., assignors to International Business Machines Corporation, New York, N. Y. Electrostatic storage unit. 169,685, May 26.

Kress, George H., Endwell, N. Y., and C. W. Sundberg, Detroit, Mich., assignors to International Business Machines Corporation, New York, N. Y. Card reader. 169,686, May 26.

Levey, Jack H., Los Angeles, Calif. Dental cabinet. 169,687, May 26.

Marx, Louis, & Company, Inc., assignee: *See*—
Hopkins, Richard E.

Meister, Gustav H., Bath, Maine. Foldable clothesrack. 169,688, May 26.

Milwaukee Lace Paper Company, assignee: *See*—
Hamilton, Kenneth C.

Mizrahi, Joseph D., Los Angeles, Calif. Apron or similar article. 169,689, May 26.

Parva Products Company, assignee: *See*—
White, Paul W., and Webb.

Paul Brown-Greher, Inc., assignee: *See*—
Brown, Paul.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 169,690, May 26.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 169,691, May 26.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 169,692, May 26.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 169,693, May 26.

Quigley, Stephen M., Baldwin Township, Allegheny County, Pa., and D. Goodman, Sherman Oaks, Calif. Ash tray. 169,694, May 26.

Rabinowitz, Isidor, Philadelphia, Pa. Stocking. 169,695, May 26.

Ries, Edward J., Brighton, and G. E. Christians, assignors to Ritter Company, Inc., Rochester, N. Y. Mobile stool. 169,696, May 26.

Ritter Company, Inc., assignee: *See*—
Ries, Edward J., and Christians.

Rogers, James K., Chicago, Ill. Automobile door handle and lock protective glove. 169,697, May 26.

Rogers, James K., Chicago, Ill. Automobile door handle and lock protective glove. 169,698, May 26.

Rotthier, Henry, Rock Island, Ill. Smoking aspirator. 169,699, May 26.

Rowe, Leif A., assignor to Wm. Thoresen Company, Chicago, Ill. Watering pot. 169,700, May 26.
Rusnak, William, Chicago, and W. G. Stoll, Evanston, assignors to Afco-Lite Corporation, Chicago, Ill. Brooder heater. 169,701, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,702, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,703, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,704, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,705, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,706, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,707, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,708, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,709, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,710, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,711, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,712, May 26.
Sauer, Margaret, Shaker Heights, Ohio, and H. Schmidt, New York, N. Y. Handkerchief or the like. 169,713, May 26.
Schmidt, Herman: *See*—
Sauer, Margaret, and Schmidt.
Schwartz, Bertram, Croton-on-Hudson, N. Y. Jeweled lipstick case. 169,714, May 26.
Speidel Corporation, assignee: *See*—
Augenstein, Karl C.
Stoll, Wilbert G.: *See*—
Rusnak, William, and Stoll.
Stout, Thorne F., Dayton, Ohio. Toy airplane. 169,715, May 26.
Sundberg, Carl W.: *See*—
Kress, George H., and Sundberg.
Thoresen, Wm., Company, assignee: *See*—
Rowe, Leif A.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Walsh, William J., Lemay, Mo. Shoe heel. 169,716, May 26.
Webb, Harry A.: *See*—
White, Paul W., and Webb.
White, Paul W., New Haven, and H. A. Webb, Mount Carmel, Conn., assignors to Parva Products Company, Chicago, Ill. Sandal. 169,717, May 26.
Wright, Jack H., Chicago, Ill. Metal sheet. 169,718, May 26.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A B Svenska Fläktfabriken, assignee: *See*—
Wester, Karl G.
AVE Transportmittel Holding A. G., assignee: *See*—
Miklos, Heinrich.
Abler, Julius, assignor of one-half to Abel Engelman, Chicago, Ill. Smoke-simulating toy gun and ammunition. 2,639,543, May 26.
Abresch, Carel F., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,639,600, May 26.
Accurate Parts Manufacturing Company, assignee: *See*—
Richmond, Walter.
Ackerman, Morris, Chevy Chase, Md., assignor of one-fifth to J. J. White, Washington, D. C. Portable music stand. 2,639,902, May 26.
Adamec, Gilbert: *See*—
Anderson, Carl, and Adamec.
Adlake Company, The, assignee: *See*—
Ehret, Yale W.
Adler, Milton, New York, N. Y. Mechanical figure simulating pouring and drinking liquid. 2,639,547, May 26.
Aetna-Standard Engineering Company, The, assignee: *See*—
Strock, Donn V.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Larkin, Roger A.
Agule, George J., Stamford, assignor to Machlett Laboratories, Incorporated, Springdale, Conn. Electron tube. 2,640,168, May 26.
Ainsworth, Arthur R., and J. B. Miller, assignors to Cye-Arc Limited, London, England. Apparatus for electric arc stud welding. 2,640,133, May 26.
Aircraft-Marine Products, Inc., assignee: *See*—
Macy, James C.
Air-Maze Corporation, assignee: *See*—
Glanzer, Clarence J.
Savitz, Christian W.
Air-O Fan Products Corporation, assignee: *See*—
Fish, Richard H.
Air Reduction Company, Incorporated, assignee: *See*—
Hoover, Charles O.
Air-Way Electric Appliance Corporation, assignee: *See*—
Dow, Dewey M.
Akers, Edward G., assignor to M. O. Johnston, Glendale, Calif. Device for sealing wire lines, including a cable having spaced sealing members. 2,639,692, May 26.
Aktiebolaget Elektrolux, assignee: *See*—
Deutgen, Ragnar E.
Aktiebolaget Separator, assignee: *See*—
Hytte, Robert P. L.
Albrecht, Alexander J., West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet conveyer. 2,639,664, May 26.
Albright, John R., assignor to Geo. D. Roper Corporation, Rockford, Ill. Pilot operated relief valve for pumps and the like. 2,639,725, May 26.
Alcorn, Irwin W., Houston, Tex., assignor to The Pure Oil Company, Chicago, Ill. Dead weight tank for testing the bearing value of a column. 2,639,611, May 26.
Alden, Milton, Wellesley, Mass. Resilient solder terminal. 2,640,185, May 26.
Alexander Shipyard, Inc., assignee: *See*—
Durant, Leslie B., and Padel.
Alexanderson, Ernst F. W., and S. P. Nixdorff, Schenectady, N. Y., assignors to General Electric Company. Electric motor and stabilizing means therefor. 2,640,179, May 26.
Allen, Frank B.: *See*—
Cahusac, Clarence N., and Allen.
Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Differential tensiometer. 2,639,612, May 26.
Allenbaugh, Ralph, assignor of one-half to W. F. Feigenbaum, Mansfield, Ohio. Swing stage scaffold. 2,639,951, May 26.
Allis, Louis, Company, The, assignee: *See*—
Wiseman, Theodore R.
Ambler, Robert R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Industrial cord treating apparatus. 2,639,485, May 26.
Ambrette, Louis C., Westbury, and J. W. McNeil, Brooklyn, N. Y. Shipping package for press inking rolls. 2,639,807, May 26.
American Cyanamid Company, assignee: *See*—
Schaefer, Frederic C., and Drechsel.
Thurston, Jack T.
American Laundry Machinery Company, The, assignee: *See*—
Huebsch, Monte F., and De Moss.
American Pipe and Construction Co., assignee: *See*—
Whiting, William A.
American Telephone and Telegraph Company, assignee: *See*—
Carter, Robert W., Currier, Emig, and Glentzer.
American Viscose Corporation, assignee: *See*—
McDermott, Henry J.
Ampex Electric Corporation, assignee: *See*—
Lindsay, Harold W.
Anderson, Carl, Morningdale, Mass., and G. Adamec, Bronx, N. Y.: said Adamec assignor to said Anderson. Electric clutch. 2,639,520, May 26.
Anderson, Edward P., Teaneck, assignor to Charles Engelhard, Incorporated, East Newark, N. J. Furnace atmosphere indicator. 2,639,610, May 26.
Anderson, Ralph F., assignee: *See*—
Anderson, Swan F.
Anderson, Swan F., assignor of one-half to himself and one-half to R. F. Anderson, Rockford, Ill. Sandwich machine. 2,639,677, May 26.
Anglo-Iranian Oil Company Limited, assignee: *See*—
MacLean, Thomas T.
Annese, Russell W., assignor to The Gardner Board and Carton Co., Middletown, Ohio. Timed feeding device for carton blanks. 2,639,916, May 26.
Ansel, Gerhard: *See*—
Perry, Robert E., Ansel, and Dietrich.
Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Vehicle light controlling lens panel. 2,640,149, May 26.
Arthur, Richard P., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Multipoint plug and jack. 2,640,185, May 26.
Aspinall, Glenn, Burlington, Wis. Egg cleaner. 2,639,561, May 26.
Assembled Units, Inc., assignee: *See*—
Bochan, Peter J.
Associated Pulp and Paper Mills Limited, assignee: *See*—
Sloman, Arthur R.
Atkin, Kenneth C., assignor to Clarke Sanding Machine Company, Muskegon, Mich. Oscillating sander. 2,639,564, May 26.
Atkins, Harry C., University Heights, and H. E. Hermanson, Cleveland, Ohio, assignors to General Electric Company. Base marking apparatus. 2,639,661, May 26.
Atlantic Refining Company, The, assignee: *See*—
Webber, Jack C.
Atlee, Zed J., Elmhurst, and J. R. Gosling, Chicago, Ill., assignors to General Electric Company. Envelope for electron flow device and glass-metal seal embodied therein. 2,640,167, May 26.
Atwood, James L., Nashville, Tenn. Article transfer for bakery conveyer system. 2,639,800, May 26.
Ausherman, Harry S., Wichita, Kans. Belt tightener and slack adjuster. 2,639,623, May 26.
Autogiro Company of America, assignee: *See*—
Stanley, Paul H.
Automatic Electric Laboratories, Inc., assignee: *See*—
Lomax, Clarence E., and Gallagher.
Automatic Telephone & Electric Company Limited, assignee: *See*—
Taylor, Reginald.
Aylor, Eugene W., Brightwood, Va. Hinged door chicken coop. 2,639,473, May 26.
Babcock & Wilcox Company, The, assignee: *See*—
Coykendall, Leon H.
Babin, Lionel, assignee: *See*—
Eeeman, Dewey J.
Bagnall, James A.: *See*—
Vaughan, Victor G., Mawney, and Bagnall.
Baicher, Warren: *See*—
Schenzinger, John M., and Baicher.
Baker, Corwin W., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sole rounding and channeling machine. 2,639,449, May 26.
Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Tate, Malcolm C.
Baldwin, Robert H., Chadds Ford, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Separating hydrogen fluoride from chlorodifluoromethane. 2,640,086, May 26.
Bales, Max G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ventilating system for sealed ignition distributors and engine crankcases. 2,639,701, May 26.
Ball, Arthur F.: *See*—
Constantine, George R., and Ball.

Ball, Charles O., New Brunswick, N. J. Canning process. 2,639,991, May 26.

Ballard, Lyttleton W. : *See*—
Dill, Everett C., and Ballard.

Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Precision locating device. 2,639,562, May 26.

Bumert, Johann, Gibswil, assignor to Keller & Co., Neuthal, Gibswil, Switzerland. Leno-weave loom. 2,639,733, May 26.

Bamford, Frank L., Detroit, Mich. Reciprocator. 2,639,620, May 26.

Bannon, Edward F. : *See*—
Ezzy, Maron J., and Bannon.

Barkley, Robert Y. Weems, Va. Sheave block with adjustable eye. 2,639,891, May 26.

Barry, Arthur W., Charleston, W. Va., and F. S. Chance, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Packaging of tacky materials. 2,639,808, May 26.

Barry, John J., Evanston, Ill., and W. B. Retz, Plainville, assignors to The New Britain Machine Company, New Britain, Conn. Machine tool. 2,639,492, May 26.

Barry, Rufus E., Chickasha, Okla. Tobacco pipe and cigarette holder. 2,639,717, May 26.

Bates, Arthur H., Jr., Dalton, Ga., N. Bobo, C. F. Mullinax, and W. W. Macomson, Lyman, S. C., assignors to Pacific Mills. Sheet marking and measuring apparatus. 2,639,508, May 26.

Bauer, Arthur G., Wantagh, assignor, by mesne assignments, to C. E. Eggers, Great Neck, N. Y. Fusible extension cord plug. 2,640,184, May 26.

Baunsgard, Earl N. : *See*—
Baunsgard, Theodore A. and E. N.

Baunsgard, Theodore A., Seattle, and E. N. Baunsgard, Kirkland, Wash. Scraper-type cultivator tool. 2,639,654, May 26.

Baus, David S. : *See*—
Rose, Howard E., Motch, and Baus.

Baxter, Ross M. : *See*—
Foote, Perry A., Lauter, and Baxter.

Bay, Ernest, Saylesville, R. I., assignor to Owens-Corning Fiberglas Corporation. Spindle adapter for high-speed strand twisting machines. 2,639,576, May 26.

Beach & Shore, Inc., assignee : *See*—
Hayden, David H.

Beaverite Products, Inc., assignee : *See*—
Couden, Earl R.

Becker, Rodger F., Kalamazoo, Mich. Solenoid controlled cord reel. 2,640,113, May 26.

Beekley, John S., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Chlorosulfonation of polythene using azo catalysts. 2,640,048, May 26.

Beiger, John W., South Bend, Ind. Collapsible hinged table. 2,639,523, May 26.

Bell Machine Company, The, assignee : *See*—
Schafer, Frank.

Bell Telephone Laboratories, Incorporated, assignee : *See*—
Bennett, William R.
Espenschied, Lloyd, and Skellett.
Gannett, Danforth K.
Ketchledge, Raymond W.
Knox, Winston E.
Pollard, Charles E., Jr.

Bellinghieri, Santo, New York, N. Y. Smoking pipe sensoner and rejuvenator. 2,639,716, May 26.

Belloff, Fred P., and T. R. Bevacqua, Chicago, Ill. Barber clipper holder. 2,639,880, May 26.

Belshaw, Walter, Seattle, Wash., assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,639,404, May 26.

Bendix Aviation Corporation, assignee : *See*—
Korzdorfer, John J.
Puro, John F.
Teague, Walter D., Jr.

Bennett, William R., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission system and synthesizing a given electrical characteristic. 2,640,105, May 26.

Benz, George W., executor : *See*—
Benz, Herbert G.

Benz, Herbert G., deceased, St. Paul, Minn. ; G. W. Benz, executor of the estate of said H. G. Benz. Tire pressure indicator. 2,639,685, May 26.

Bepristis, Andrew J., Azusa, Calif. Album. 2,639,526, May 26.

Berenson, Henry J., assignor to National Paper Can & Tube Company, Milwaukee, Wis. Battery insulator tube manufacture. 2,639,647, May 26.

Berg, Clyde H. O. : *See*—
Polly, Orville L., and Berg.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Oil-shale eduction process and apparatus. 2,640,014, May 26.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Oil-shale eduction apparatus. 2,640,019, May 26.

Bergstrom, Carl N., Portland, Oreg. Holding seal for crankcase gaskets. 2,639,832, May 26.

Berkeley Scientific Corporation, assignee : *See*—
Glei, George J., Jr., and Burns.

Bernat, Louis, assignee : *See*—
Shaw, Albert E., and Moon.

Berry, Jack H. : *See*—
Zollars, Richard U., Lawson, and Berry.

Berthiez, Charles W., Paris, France. Machine tool such as boring and milling machine. 2,639,644, May 26.

Bevacqua, Thomas R. : *See*—
Belloff, Fred P., and Bevacqua.

Biehls, Elizabeth I., Erie, Pa. Butter melting and applicator unit for bread toasters. 2,639,658, May 26.

Bierman, Arthur D. : *See*—
Bierman, Daniel H., Jawett, and Bierman.

Bierman, Daniel H., Elmont, J. A. Jawett, Jamaica, and A. D. Bierman, Elmont, assignors to Liquidepth Indicators Incorporated, Long Island City, N. Y. Multiway valve. 2,639,723, May 26.

Bierman, Daniel H., Malverne, and J. A. Jawett, Jamaica, assignors to Liquidepth Indicators Incorporated, Long Island City, N. Y. Pump. 2,639,838, May 26.

Billeter, Henry R., Highland Park, Ill. Cable connector. 2,639,927, May 26.

Billings, Roy O., Milwaukee, Wis. Grapple. 2,639,937, May 26.

Bitner, Charles, assignee : *See*—
Gallo, Richard L.

Bitomley, Frank P., deceased, East Orange, N. J. ; K. Bitomley, executrix of said F. P. Bitomley. Butting device. 2,639,565, May 26.

Bitomley, Katherine, executrix : *See*—
Bitomley, Frank P.

Blackman, Edward L., New York, N. Y. Trousers hanger. 2,639,847, May 26.

Blair, Charles M., Jr., and W. F. Gross, Webster Groves, Mo., assignors to Petrolite Corporation. Preventing corrosion. 2,640,029, May 26.

Blessing, Charles B., Oakland, Calif., assignor to Blessing Packaging Company. Packaging hangered garments. 2,639,506, May 26.

Blessing Packaging Company, assignee : *See*—
Blessing, Charles B.

Bobo, Ned : *See*—
Bates, Arthur H., Jr., Bobo, Mullinax, and Macomson.

Bochan, Peter J., assignor to Assembled Units, Inc., Bridgeport, Conn. Multiple spool and thread package therefor. 2,639,866, May 26.

Bock, Louis H. : *See*—
De Benneville, Peter L., Leake, and Bock.

Boeing Airplane Company, assignee : *See*—
Korsberg, John F., Gustafson, and Snyder.

Boggis, Henry P. : *See*—
Crilley, William W., Crilley, and Boggis.

Bonkowski, Teofil L. : *See*—
Solloway, Harry, and Bonkowski.

Borcherdt, Gerald T. : *See*—
Webb, Irving D., and Borcherdt.

Borton, Robert O., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Manufacture of latex foam sponge. 2,640,037, May 26.

Boss, Maurice, Jr., and O. Boss, Grand Rapids, Mich. Precast reinforced masonry wall. 2,639,606, May 26.

Boss, Orrie : *See*—
Boss, Maurice, Jr., and O. Boss.

Bradford, John R., Jr., Lordsburg, N. Mex. Flat tire signal device. 2,640,119, May 26.

Brass, Philip D., Mahwah, and J. H. Mann, Teaneck, N. J., assignors to United States Rubber Company, New York, N. Y. Making latex sponge rubber. 2,640,036, May 26.

Brennan, Joseph B., Cleveland, Ohio. Formation of metal strip under controlled pressures. 2,639,490, May 26.

Briechle, Joseph, Floral Park, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Four-way valve. 2,639,728, May 26.

British Celanese Limited, assignee : *See*—
Stanley, William E., and Brown.

Brock, William P., and C. Neal, Lancaster, S. C., assignors to The Springs Cotton Mills. Stop motion mechanism for looms. 2,639,734, May 26.

Brogden Company, assignee : *See*—
Lehman, Rodney L.

Bronk, Leonard, Beeston, Leeds, assignor to The Forgrove Machinery Company Limited, Leeds, Yorkshire, England. Wrapping machine. 2,639,568, May 26.

Brookey, Andrew C., San Antonio, Tex. Valve seat reamer. 2,639,642, May 26.

Brown, Andrew G., Maywood, assignor to The Griffith Laboratories, Inc., Chicago, Ill. Weighing scale. 2,639,912, May 26.

Brown, Betsy O., executrix : *See*—
Brown, David B.

Brown, Charles S. : *See*—
Montgomery, Charles W., and Brown.

Brown, David B., deceased, Bellingham, Wash. ; B. O. Brown, executrix of said D. B. Brown. Massage vibrator. 2,639,707, May 26.

Brown, Fred C. : *See*—
Stanley, William E., and Brown.

Brown, Gardner L., T. A. Johnson, and R. B. Knill, assignors to Wingfoot Corporation, Akron, Ohio. Nondiscoloring reclaim and preparation. 2,640,035, May 26.

Brown & Grist Company, assignee : *See*—
Grist, Arthur W.

Broyles, Alvin C., Tulsa, Okla., assignor to Standard Oil Development Company. Inhibiting storage tank corrosion. 2,639,971, May 26.

Bruner, Walter M., and H. M. Kvalnes, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of melamine-formaldehyde reaction products. 2,640,041, May 26.

Bryant, James M., assignee : *See*—
Galyord, John A.

Buckle-Craft Co., assignee : *See*—
Torbert, Everyl M.

Buford, William J., Houston, Tex. Crab trap. 2,639,540, May 26.

Buiman, E. O., Manufacturing Company, Inc., The, assignee : *See*—
Stephenson, Alpha W.

Burian, Kurt : *See*—
McMaster, Archie J., Kitto, and Burian.

Burke, George F. C., Fairhaven, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for use in making insoles. 2,639,447, May 26.

Burmeister, Robert M., Pasadena, Calif. Luggage carrier for motor vehicles. 2,639,848, May 26.

Burn, Lewis, London, England, H. Todd, Holywell, Wales, and J. Oliver, Coventry, England. Rotary granulating machine. 2,639,747, May 26.

Burns, Meryl C. : *See*—
Glei, George J., Jr., and Burns.

Bush, Elijah B., Oklahoma City, Okla. Sound reproducing device. 2,639,924, May 26.

Butler, Richard K. : *See*—
Cotchett, Louis M., and Butler.

Butler, Thomas P., Antlers, Okla. Minnow box. 2,639,906, May 26.

Buttino, Albert L., San Francisco, Calif., and H. R. Patterson, Belmont, Mass., assignors to The Rauland Corporation. Cathode-ray tube sealing process. 2,639,555, May 26.

C-O-Two Fire Equipment Company, assignee : *See*—
Cahusac, Clarence N., and Allen.

Cable, Grover C., Huntington Park, Calif. Box nailing machine. 2,639,427, May 26.

Cahusac, Clarence N., Newark, and F. B. Allen, Towaco, assignors to C-O-Two Fire Equipment Company, Newark, N. J. Smoke detector relay and resetting mechanism. 2,640,123, May 26.

Calkins, Claude C., assignor to Calkins Manufacturing Company, Spokane, Wash. Seed treater. 2,639,836, May 26.

Calkins Manufacturing Company, assignee : *See*—
Calkins, Claude C.
Guyer, Morris W.

Calosi, Carlo L., Cambridge, assignor to Raytheon Manufacturing Company, Newton, Mass. Duplicator speed controls. 2,640,176, May 26.

Cameron Iron Works, assignee : *See*—
Allen, Herbert.

Camerota, Louis A., Burlington, assignor to The Florence Pipe Foundry and Machine Company, Florence, N. J. Hydraulic press cycle control system. 2,639,585, May 26.

Caminear, Morris : *See*—
Cohen, Abraham J., Levine, Caminear, and Price.

Campbell, Cleo W. : *See*—
Taylor, William G., and Campbell.

Campbell and Company, assignee : *See*—
Strybel, Edward J.

Candler, George, assignee : *See*—
McCormick, Michael.

Carbonisation et Exploitations Forestières S. A. (C. E. F.), assignee : *See*—
Mulier, Frederic A., and Saffores.

Carr, Ralph L., Jackson Heights, N. Y., assignor to Mathieson Chemical Corporation. Apparatus for mixing hypochlorite solutions. 2,639,981, May 26.

Carter, J. C., Company, The, assignee : *See*—
Carter, James C.

Carter, James C., assignor to The J. C. Carter Company, Pasadena, Calif. Combination fueling and relief valve. 2,639,730, May 26.

Carter, Robert W., M. G. Currier, W. G. Emig, and K. V. Glentzer, Chicago, Ill., assignors to American Telephone and Telegraph Company. Radiant energy signaling system. 2,640,193, May 26.

Casals, Gabriel, Vedado, Havana, Cuba. Manufacture of artificial leaves of plants. 2,639,533, May 26.

Case, Burgess C., Plainfield, N. J. Vending machine cabinet. 2,639,961, May 26.

Case, J. I., Company, assignee : *See*—
Russell, Stanley D.

Cavanagh, Robert T., Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Supression of spurious oscillations. 2,640,173, May 26.

Celanese Corporation of America, assignee : *See*—
Salvin, Victor S., and Landau.
Seymour, George W., and Salvin.

Century Lighting, Inc., assignee : *See*—
McCandless, Stanley.

Chambers, Victor S. : *See*—
Howland, Louis H., and Chambers.

Champion Paper and Fibre Company, The, assignee : *See*—
Stoddard, William B., Jr.

Chance, Franklin S., Jr. : *See*—
Barry, Arthur W., and Chance.

Chandler & Price Company, The, assignee : *See*—
Jirousek, Joseph F.

Chapman, Francis E. : *See*—
Wilder, Edward A., and Chapman.

Charette, Joseph A. : *See*—
Pappas, Theodore, and Charette.

Chase Brass & Copper Co. Incorporated, assignee : *See*—
Finn, Edward J.

Chase, Corson W., Oak Park, Ill., and K. R. Manning, Jackson, Mich., assignors to The Goss Printing Press Company, Chicago, Ill. Printing cylinder. 2,639,668, May 26.

Chatfield, Franklin, assignor to Munsingwear, Inc., Minneapolis, Minn. Man's undergarment. 2,639,708, May 26.

Cheek, Hiram R., Bell, Calif. Apparatus for forming metal articles. 2,639,757, May 26.

Chemical Engineering, Wiltons Limited, assignee : *See*—
Wilton, Thomas O.

Chemstrand Corporation, The, assignee : *See*—
Ham, George E.

Chicago Rubber Company, Inc., assignee : *See*—
Cosmos, William J.

Childhood Interests, Inc., assignee : *See*—
Miller, Harry E.

Chitwood, Henry C., J. T. Fitzpatrick, G. W. Fowler, and B. T. Freure, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Dehydrogenation catalyst and process. 2,640,084, May 26.

Christensen, Wm., Co., Inc., assignee : *See*—
Ramer, Robert C.

Churchill, John W., Kenmore, N. Y., assignor to Mathieson Chemical Corporation. Chemical process. 2,639,977, May 26.

Cier, Harry E., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Photochemical production of branched paraffinic hydrocarbons. 2,640,023, May 26.

Ciricillo, Samuel F., Newark, N. J., assignor to General Electric Company. Gas furnace and draft hood assembly. 2,639,706, May 26.

Clarke Sanding Machine Company, assignee : *See*—
Atkin, Kenneth C.

Clayton, Erith T., assignor, by mesne assignments, to The Tainton Company, Baltimore, Md. Bright metal plating. 2,640,001, May 26.

Clayton, Erith T., assignor to The Tainton Company, Baltimore, Md. Cladding metal. 2,640,002, May 26.

Cleaver, Richard F. : *See*—
Earp, Charles W., and Cleaver.

Clements, Desmond R., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Synchronizing signal separator. 2,640,103, May 26.

Cleveland Crane & Engineering Company, The, assignee : *See*—
Wehr, William G.

Clewell, Dayton H., and C. F. Rust, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Barometric measurement of elevation. 2,639,015, May 26.

Clinton Foods Inc., assignee : *See*—
Skinner, Bronson C.

Closson, Rex D. : *See*—
Ligett, Waldo B., Closson, and Wolf.

Cobine, James D., Schenectady, N. Y., assignor to General Electric Company. Electrode. 2,640,135, May 26.

Coffin, David W., Upper Darby, Pa. Toy engine kit. 2,639,544, May 26.

Cohen, Abraham J., S. Levine, M. Caminear, and S. S. Price, New Haven, Conn. Refrigerated liquid dispensing unit. 2,639,724, May 26.

Cohen, Abraham J., S. Levine, and M. Caminear, New Haven, and S. S. Price, North Haven, Conn. Molecular spray carbonator assembly. 2,639,946, May 26.

Cohen, Henry, and J. H. H. Darth, Farnborough, assignors to Power Jets (Research & Development) Limited, London, England. Apparatus for burning fuel in a high velocity gas stream. 2,639,581, May 26.

Cole, Lawrence D., assignor of one-fourth to J. H. McHugh, Steubenville, Ohio. Slide detecting apparatus. 2,640,131, May 26.

Collins, Zane L., Linthicum Heights, and F. J. Euler, Jr., Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Exposure monitor for horizontal cassette changer. 2,640,160, May 26.

Columbia Machinery and Engineering Corporation, assignee : *See*—
Pater, Paul G.

Commercial Controls Corporation, assignee : *See*—
Lambert, Harry L.

Concelman, Carl W., Brookfield, Conn., assignor to Haseltine Research, Inc., Chicago, Ill. Electrical switch. 2,640,115, May 26.

Cone, Carroll, near Toledo, Ohio, and W. H. Dalley, Jr., near Library, Pa., assignors to Surface Combustion Corporation, Toledo, Ohio. Combustion apparatus using preheated air. 2,639,010, May 26.

Connecticut Telephone and Electric Corporation, assignee : *See*—
O'Neil, Paul T.

Conover, James H., assignor to United States Gypsum Company, Chicago, Ill. Treatment of cellulosic pulps. 2,639,989, May 26.

Conrad, Charles W., Philadelphia, Pa. Valve. 2,639,882, May 26.

Constantine, George R., and A. F. Ball, Haverhill, assignors to The Service Wood Heel Co., Lawrence, Mass. Wedge-heel shaping machine. 2,639,742, May 26.

Cook, James E., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Bearing assembly for absorbing vibrations of centrifuge spindles and the like. 2,639,953, May 26.

Cooper, Allyn R., assignor of one-half to H. M. Cooper, Marshalltown, Iowa. Mower wheel seal. 2,639,929, May 26.

Cooper, Harold M., assignee: *See*—
Cooper, Allyn R.

Corning Glass Works, assignee: *See*—
Kohl, Charles F., Jr.

Cosmocord Plastics Limited, assignee: *See*—
Sturm, Robert H.

Cosmos, William J., Chicago, Ill., assignor to Chicago Rubber Company, Inc. Contact wheel. 2,639,560, May 26.

Cotchett, Louis M., and R. K. Butler, assignors to Textile Engineering Corporation, Whitman, Mass. Buffing machine for drawing rolls. 2,639,558, May 26.

Couden, Earl R., Chicago, Ill., assignor to Beaverlite Products, Inc., Beaver Falls, N. Y. Dispenser for disks, pads, gaskets, and sheetlike members. 2,639,959, May 26.

Couillette, James H.: *See*—
Polk, Laurence N., and Couillette.

Coykendall, Leon H., Westfield, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Vapor generator. 2,639,695, May 26.

Criley, Frederick F.: *See*—
Criley, William W., Criley, and Boggis.

Criley, William W., deceased, Shaker Heights, Ohio, F. F. Criley, Terra Cela, Fla., and H. P. Boggis, Shaker Heights, Ohio; W. S. Criley, executrix of said W. W. Criley, assignors to said F. F. Criley, as trustee. Forging machine. 2,639,632, May 26.

Cross, Roy H.: *See*—
Packer, Lewis C., Cross, and Monchamp.

Crumrine, Kenneth C., Tulsa, Okla., assignor to Standard Oil Development Company. Precision switching assembly for electrical prospecting. 2,640,097, May 26.

Crystal-Flo Products Company, assignee: *See*—
Thompson, Parke H.

Cunningham, William A.: *See*—
Pucher, Leo E., and Cunningham.

Currier, Milton G.: *See*—
Carter, Robert W., Currier, Emig, and Glentzer.

Cutler-Hammer, Inc., assignee: *See*—
Robbins, Clyde F.

Cuttino, William H., Wilkinsburg, and L. G. Tubbs, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic switching system. 2,640,182, May 26.

Cyc-Arc Limited, assignee: *See*—
Ainsworth, Arthur R., and Miller.

Da Fano, Ettore, Raritan, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Hydrolysis resistant heat transfer composition. 2,640,031, May 26.

Da Fano, Ettore, Pasadena, Calif., assignor to John B. Pierce Foundation, New York, N. Y. Heat transfer liquid of disproportionation mixture of alkyl orthosilicates. 2,640,032, May 26.

Dahm, Carl S., Keyport, N. J. Adhesive tie seal. 2,639,479, May 26.

Dahmen, Edouard A. M. F., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Higher alkyl ester production. 2,640,070, May 26.

Dalley, William H., Jr.: *See*—
Cone, Carroll, and Dalley.

Daniels, William T., Pittsburgh, Pa. Variable vacuum and pressure rotary pump. 2,639,855, May 26.

Danielson, Vernon S., Dolton, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway draft riggings. 2,639,821, May 26.

Darth, John H. H.: *See*—
Cohen, Henry, and Darth.

Daubel, John, Chattaroy, Wash. Power operated push bar log turner. 2,639,738, May 26.

Davis, William S., Philadelphia, Pa. Awning structure. 2,639,476, May 26.

Dawkins, Bernard W., Southport, England. Straight beam clamping and like means with adjustable and interchangeable pads. 2,639,745, May 26.

Dean, Reeve W., East Aurora, assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Machine control means. 2,639,796, May 26.

Dearborn Motors Corporation, assignee: *See*—
Richey, Clarence B.

De Benneville, Peter L., Philadelphia, Pa., N. H. Leake, Bristol, Tenn., and L. H. Bock Shelton, Wash., assignors to Rohm & Haas Company, Philadelphia, Pa. Alkylbenzylthiuronium salts. 2,640,079, May 26.

Decorative Novelty Co., Inc., assignee: *See*—
Seewald, Monte.

De Directie van de Staatsmijnen in Limburg, handelend voor en namens de Staat der Nederlanden, assignee: *See*—
Goedkoop, Martinus L.

Deere & Company, assignee: *See*—
Pasturczak, Stanley F.

Deere Manufacturing Co., assignee: *See*—
Zollars, Richard V., Lawson, and Berry.

Delch, Jerome: *See*—
Farkas, Martin D., and Delch.

De Laval Separator Company, The, assignee: *See*—
Cook, James E.

Delfra Products Co., Inc., assignee: *See*—
O'Farrell, Frank.

De Monsabert, Estelle S., New Orleans, La. Mattress cover. 2,639,444, May 26.

De Moss, Albert H.: *See*—
Huebsch, Monte F., and De Moss.

Dempster Brothers Incorporated, assignee: *See*—
Dempster, George R., and Jones.

Dempster, George R., and H. W. Jones, assignors to Dempster Brothers Incorporated, Knoxville, Tenn. Fork truck having pivotally mounted extension for high level dumping. 2,639,829, May 26.

Denzin, Edward C.: *See*—
Northrop, John K., Denzin, and Smith.

Derr, Louis, Jr., Battle Creek, Iowa. Paste applicator for wrapping paper. 2,639,680, May 26.

Derry, Thomas S.: *See*—
McNamee, Paul D., Fay, and Derry.

De Tar, De Los F., Ithaca, and C. J. Le Pome, Kenmore, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of primary diamines. 2,640,080, May 26.

Deutgen, Ragnar E., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Refrigerator insulation. 2,639,593, May 26.

Diamond Alkali Company, assignee: *See*—
Seyb, Leslie P., and Neros.

Dietrich, Robert L.: *See*—
Perry, Robert E., Ansel, and Dietrich.

Dill, Everett C., Arlington, S. Dak., and L. W. Ballard, Ilchester, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Blocking oscillator system. 2,640,151, May 26.

Doan, Jack P., Midland, Mich., assignor to The Dow Chemical Company. Extrusion of metal billets having a temperature gradient. 2,639,810, May 26.

Dory, Daniel R., Milwaukee, Wis. Pusher for ice and snow. 2,639,454, May 26.

Douglass Automatic Shoe Shining Co., assignee: *See*—
Douglass, Porter D.

Douglass, Porter D., Oakland, Calif., assignor to Douglass Automatic Shoe Shining Co. Shoe polishing device. 2,639,452, May 26.

Doutt, Kingsley A., Detroit, Mich. Hydraulic flash welder control. 2,640,134, May 26.

Dow Chemical Company, The, assignee: *See*—
Doan, Jack P.
Guebert, Kenneth W.
Le Fevre, Walter J., and Moll.
Perry, Robert E., Ansel, and Dietrich.

Dow Corning Corporation, assignee: *See*—
Speier, John L.
Speier, John L., Jr.

Dow, Dewey M., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Portable room humidifier. 2,639,905, May 26

Drake, Cyril F., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Metallization of nonmetallic surfaces. 2,639,997, May 26.

Drechsel, Erhart K.: *See*—
Schaefer, Frederic C., and Drechsel.

Dressler, Howard V.: *See*—
Sax, Henry V., and Dressler.

Druck, Maurice, Long Beach, N. Y. Curtain. 2,639,767, May 26.

Duffin, George F.: *See*—
Kendall, John D., and Duffin.

Duffy, Edward W.: *See*—
Nies, Brainard W., and Duffy.

Dull, Marshall L., Wilmington, Del., assignor to Ilotomatic, Incorporated. Method and device for imparting lateral movement to an automobile. 2,639,777, May 26.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Cavanagh, Robert T.

Dumonsseau, Claude: *See*—
Touraton, Emile, and Dumonsseau.

Duncan, Angus W., assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Conveyer belt driving unit. 2,639,802, May 26.

Duncan, George R., assignor to Zero Manufacturing Company, Washington, Mo. Spreader for milk can filling means. 2,639,851, May 26.

Duncan, Richard L., U. S. Navy. Indicator. 2,639,686, May 26.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Baldwin, Robert H.
Barry, Arthur W., and Chance.
Beekley, John S.
Bruner, Walter M., and Kvalnes.
De Tar, De Los F., and Le Pome.
Gresham, William F., and Hill.
Hitt, Otha A., and Klachif.
Leibu, Henry J.
Naylor, Marcus A., Jr.
Pavlic, Albert A.
Rothrock, George M.
Schreyer, Ralph C.
Shanda, Frederick L.
Stamatoff, Gelu S.
Straw, Harry A.
Webb, Irving D., and Borcherdt.

Durant, Leslie B., and W. E. Padel, assignors to Alexander Shipyard, Inc., New Orleans, La. Barge for offshore well drilling. 2,639,588, May 26.

Dye, Glen M.: *See*—
Sardeson, Robert, and Dye.

Dyer, John W.: *See*—
Short, Brooks H., and Dyer.

Dyer, John W., Pendleton, and R. A. Wilkins, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Ignition timer. 2,640,116, May 26.

Eakin, Lourie L., Ventura, Calif. Vehicle-mounted hoisting apparatus. 2,639,825, May 26.

Earnshaw, Spencer A., Los Angeles, Calif. Machine for applying material to walls. 2,639,942, May 26.

Earnshaw, Spencer A., Los Angeles, Calif. Machine for applying material to walls. 2,639,943, May 26.

Earp, Charles W., and R. F. Cleaver, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Combined radio direction and distance finding system. 2,640,191, May 26.

Eastman Kodak Company, assignee: *See*—
Weisler, Leonard.

Economy Faucet Company, assignee: *See*—
Gordinier, Ralph E.

Eggers, Charles E., assignee: *See*—
Bauer, Arthur G.

Eggers, Charles E., Great Neck, N. Y. Extension cord plug with replaceable fuse element. 2,640,125, May 26.

Eggers, Charles E., Great Neck, N. Y. Fuse adapter plug. 2,640,126, May 26.

Ehret, Yale W., Elkhart, Ind., assignor to The Adlake Company. Baggage rack. 2,639,817, May 26.

Elch, Elizabeth A., administratrix: *See*—
Elch, Frank A.

Elch, Frank A., deceased, Melrose, Mass., by E. A. Elch, administratrix, Melrose, and L. G. Miller, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel seat fitting machine. 2,639,448, May 26.

Electro-Hydraulics Limited, assignee: *See*—
Hadekel, Ruben.

Ellett, Alec S. J.: *See*—
Zozulin, Igor V., Okulitch, Volkoff, Okulitch, and Ellett.

Elliott, Harmon P., Watertown, Mass. Bed and cylinder address printing machine. 2,639,662, May 26.

Emig, William G.: *See*—
Carter, Robert W., Currier, Emig, and Glentzer.

Engelhard, Charles, Incorporated, assignee: *See*—
Anderson, Edward P.

Engelman, Abel, assignee: *See*—
Abler, Julius.

Engemann, Herbert H., Cleveland, Ohio. Slide binder. 2,639,531, May 26.

Espenschied, Lloyd, Kew Gardens, and A. M. Skellett, Madison, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic transmission system. 2,640,162, May 26.

Etbyl Corporation, assignee: *See*—
Ligett, Waldo B., Closson, and Wolf.

Euler, Frederick J., Jr.: *See*—
Collins, Zane L., and Euler.

Exxy, Maron J., and E. F. Bannon, Machias, Maine. Sign holder for parking meters. 2,639,527, May 26.

Fafnir Bearing Company, The, assignee: *See*—
Potter, Howell L.

Fahey, Richard J., Evanston, assignor to Shellmar Products Corporation, Chicago, Ill. Carton setup machine. 2,639,648, May 26.

Fahnoe, Harold H., Wilkinsburg, and W. J. Paxton, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,640,128, May 26.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Hale, Henry E.

Falk Corporation, The, assignee: *See*—
Falk, Louis W.

Falk, Louis W., assignor to The Falk Corporation, Milwaukee, Wis. Yieldable power transmission. 2,639,624, May 26.

Farkas, Martin D., Chicago, and J. Delch, Harvey, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Manufacturing benzidine type compounds. 2,640,081, May 26.

Farmer, Richard H.: *See*—
Ross, Alvin H. A., Farmer, and Lamont.

Farnsworth Research Corporation, assignee: *See*—
Nevin, Scott.

Faulhaber, Albert J.: *See*—
Murdoch, John P., and Faulhaber.

Fay, Allan B.: *See*—
McNamee, Paul D., Fay, and Derry.

Fazio, Thomas, Newton, Mass. Colostomy appliance with a removable adapter device. 2,639,710, May 26.

Federal Telephone and Radio Corporation, assignee: *See*—
Marchand, Nathan.

Felgenbaum, Wilberd F., assignee: *See*—
Allenbaugh, Ralph.

Feller, Lloyd W., assignee: *See*—
Rhoads, Leonard H.

Fernberg, Eric B., Pinner, England. Car seat fabric clip. 2,639,764, May 26.

Ferris, Donald K.: *See*—
Geyer, Howard M., and Ferris.

Ferro Stamping Company, assignee: *See*—
Fish, Carl C.

Fett, Gilbert H., Champaign, Ill., and R. J. La Piante, Schenectady, N. Y., assignors to the United States of America as represented by the Secretary of the Navy. Low reactance shunt. 2,640,092, May 26.

Fiice, Ernest C., Sun Valley, Calif. Muting device for accordions. 2,639,640, May 26.

Fillmore Improvement Company, assignee: *See*—
Reese, Ray H.

Finn, Edward J., Naugatuck, assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Combination through-wall flashing and receiver for side-wall flashing. 2,639,879, May 26.

Fischer, Karl A., Washington, D. C. Means for producing microphotographs having a three-dimensional effect. 2,639,653, May 26.

Fischl, Fred B., Rahway, and M. W. Hill, Somerville, N. J., assignors to Standard Oil Development Company. Additives for use in extreme pressure gear oils. 2,640,030, May 26.

Fish, Carl C., Detroit, Mich., assignor to Ferro Stamping Company. Hinge construction. 2,639,462, May 26.

Fish, Richard H., Morgan Hill, Calif., assignor to Air-O Fan Products Corporation. Orchard spraying machine. 2,639,940, May 26.

Fisher, Nickolas W., Cleveland, Ohio. Flaw detector for wire mesh looms. 2,639,735, May 26.

Fitzpatrick, John T.: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Flaherty, Gerald L.: *See*—
Meyer, Walter E., and Flaherty.

Flaherty, John T., White Plains, N. Y. Cover for vehicles. 2,639,751, May 26.

Florence Pipe Foundry and Machine Company, The, assignee: *See*—
Camerota, Louis A.

Fogg, Hazel D., Falls Church, Va. Clothes drying rack. 2,639,816, May 26.

Foote, Perry A., and W. M. Lauter, Gainesville, Fla., and R. M. Baxter, Toronto, Ontario, Canada, assignors to Research Corporation, New York, N. Y. Production of alkaloids by clitocybe subilludens. 2,640,007, May 26.

Ford Motor Company, assignee: *See*—
Pickard, Edwin C.

Ford, Thomas G., Riverside, Ill. Portable glass washer. 2,639,451, May 26.

Forgrove Machinery Company Limited, The, assignee: *See*—
Brook, Leonard.

Forsberg, Harold S., Shelton, Conn. Motor driven reciprocating saw. 2,639,737, May 26.

Foster's Freeze National Corporation, assignee: *See*—
Martin, Philip.

Foulke, William K., Minneapolis, Minn. Garden tool. 2,639,935, May 26.

Fowler, George W.: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Fox, Delmer C., Darby, Mont. Christmas tree stand. 2,639,877, May 26.

Fox, Richard E., Glenview, assignor to General Porcelain Enameling and Manufacturing Company, Chicago, Ill. Display sign. 2,639,529, May 26.

Franceschi, Domenico: *See*—
Tulumello, Pasqual C., and Franceschi.

Francis, Charles B., Pittsburgh, Pa. Apparatus for determining carbon and sulfur. 2,639,980, May 26.

Francis, Daniel H., Pueblo, Colo. Rotary rock drilling bit. 2,639,896, May 26.

Frank, Edward J.: *See*—
Oppel, John A., and Frank.

Fray, Victor H., Auckland, Auckland, New Zealand. Hopper-feed apparatus for metal thread screw blanks and the like. 2,639,445, May 26.

Frederick, Robert M., Richland, Wash. Cigarette dispenser. 2,639,960, May 26.

Freeman, Dewey J., assignor of eighty-five percent to L. Babin, and fifteen percent to D. Melancon, Houma, La. Resilient fastener for rigid ventilated awnings. 2,639,477, May 26.

Freure, Benjamin T.: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Friend, David S.: *See*—
Newman, Robert J., and Friend.

Fritz, Robert J., Baton Rouge, La., assignor to Standard Oil Development Company. Method of and apparatus for improving gas distribution in bubble-cap tower operating on fluidized solids. 2,639,973, May 26.

Frost Hox Co., Inc., assignee : *See*—
Thurston, Benjamin L.

Fry, Ben L., St. Louis, Mo., assignor to Itsa Manufacturing Co. Door slam muffler means. 2,639,461, May 26.

Fry, Millard E., assignor to General Motors Corporation, Dayton, Ohio. Broiler. 2,639,659, May 26.

Fuhrman, Ralph E., assignee : *See*—
McNamee, Paul D., Fay, and Derry.

Fuller, Edwin S. : *See*—
Smith, Grover C., and Fuller.

Furnas Electric Company, assignee : *See*—
Johnson, Arthur B., Jr.

Furniss, Henry D., assignor to Gordon Foods, Inc., Atlanta, Ga. Potato chip bleaching equipment. 2,639,656, May 26.

G-M Laboratories, Inc., assignee : *See*—
McMaster, Archie J., Kitto, and Burian.

Gabrielson, Samuel I., Lynn, Mass., assignor to General Electric Company. Emergency declutching mechanism for clothes wringers. 2,639,602, May 26.

Gale, Charles J., New York, N. Y. Glare shield for spectacles. 2,639,430, May 26.

Galinski, Roman : *See*—
Piwczynski, Edward F., and Galinski.

Gallon Iron Works & Manufacturing Company, The, assignee : *See*—
Wright, Fred J.

Gallagher, Ray J. : *See*—
Lomax, Clarence E., and Gallagher.

Gallo, Richard L., Maytown, assignor of one-half to C. Bitner, Milton Grove, Pa. Self-propelled drilling machine. 2,639,895, May 26.

Gannett, Danforth K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Monitor system insensitive to impedance variations. 2,640,094, May 26.

Garco Products, Inc., assignee : *See*—
Tillotson, Edwin W.

Gardner Board and Carton Co., The, assignee : *See*—
Anness, Russell W.

Garrison, Walling, Washington, D. C. Spirit level with reflecting means. 2,639,514, May 26.

Garske, Gene A. : *See*—
Travis, Paul N., and Garske.

Gavrilovich, Oscar, New York, N. Y. Collar holder. 2,639,436, May 26.

Gaylord, John A., Pacific Palisades, assignor to J. M. Bryant, P. R. Simon, and A. E. Isenberg, Los Angeles County, Calif. Parachute harness release. 2,639,936, May 26.

Gayring, Wallace F. : *See*—
Sando, Joseph B., and Gayring.

Geller, Isaac, Portland, Oreg. Control means for film reel storage cabinets. 2,639,957, May 26.

Gemmer, George A., Richmond, Ind. Bait box. 2,639,538, May 26.

General Aniline & Film Corporation, assignee : *See*—
Ney, William O., Jr.

General Cable Corporation, assignee : *See*—
Smith, John H.

General Controls Co., assignee : *See*—
Ray, William A.

General Electric Company, assignee : *See*—
Alexanderson, Ernst F. W., and Nixdorff.
Atkins, Harry C., and Hermanson.
Atlee, Zed J., and Gosling.
Ciricillo, Samuel F.
Cobine, James D.
Gabrielson, Samuel I.
Martt, Ernest C.
McLean, Stuart.
McNairy, Jacob W.
Oppel, John A., and Frank.
Rowe, Raymond N., and Page.
Strief, Eugene E.
Sowter, Anthony B.

General Motors Corporation, assignee : *See*—
Abresch, Carel F.
Bales, Max G.
Dyer, John W., and Wilkins.
Fry, Millard E.
Geyer, Howard M., and Ferris.
Hartzell, Herman L.
Heivern, James O.
Olson, Elmer.
Short, Brooks H., and Dyer.
Short, Brooks H., and Lautzenhiser.

General Porcelain Enameling and Manufacturing Company, assignee : *See*—
Fox, Richard E.

General Refractories Company, assignee : *See*—
Heuer, Russell P.

Gerneth, Josef, assignor to Siemens-Reiniger-Werke, Erlangen, Germany. Machine for convergent irradiation. 2,640,139, May 26.

Geyer, Howard M., Dayton, and D. K. Ferris, West Milton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Motor driven actuator. 2,639,625, May 26.

Giel, George J., Jr., and M. C. Burns, assignors to Berkeley Scientific Corporation, Richmond, Calif. Magnetic ring counter. 2,640,164, May 26.

Gilbert, Roswell W., Montclair, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Thermocouple cold-end compensator. 2,640,089, May 26.

Gilchrist, Peter S., Jr., Charlotte, N. C. Miniature knockdown stove. 2,639,704, May 26.

Gillespie, Frank E., Jr., Jamaica Plain, Mass. Can punch. 2,639,500, May 26.

Ginder, Henry E., assignor to Manheim Manufacturing and Belting Company, Manheim, Pa. Driving belt. 2,639,822, May 26.

Gladwell, Orville B. : *See*—
Hartman, Vern, and Gladwell.

Glanzer, Clarence J., Northfield, assignor to Air-Maze Corporation, Cleveland, Ohio. Deaerator for oil or the like. 2,639,779, May 26.

Gleason Works, The, assignee : *See*—
McMullen, Frederick E., and Peck.

Glenn, Charles W., assignee : *See*—
Wagner, Willard F.

Glenn, Harry D., and I. Mankowich, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Vulcanization accelerators. 2,640,088, May 26.

Glentzer, Kenneth V. : *See*—
Carter, Robert W., Currier, Emig, and Glentzer.

Glynn, Edwin A., assignor to Super Mold Corporation of California, Lodi, Calif. Placing a tire in and removing same from a mold. 2,639,466, May 26.

Glynn, William B., Menlo Park, Calif. Self-elevating sprinkler head and system. 2,639,941, May 26.

Goedkoop, Martinus L., Geleen, assignor to De Directie van de Staatsmijnen in Limburg, handelend voor en namens de Staat der Nederlanden, Heerlen, Netherlands. Manufacture of polycarboxylic acids. 2,640,075, May 26.

Goeske, Charles J., Henryetta, Okla. Attachment for lawn mowers. 2,639,572, May 26.

Goldman, Ernest A. : *See*—
Lewin, Gerhard, and Goldman.

Goldsbrough, Leslie N., Thornton-le-Moors, England, assignor to Shell Development Company, San Francisco, Calif. Manufacture of alcohol. 2,640,085, May 26.

Golob, John E., assignor to Standard-Thompson Corporation, Dayton, Ohio. Apparatus for controlling the pressure in liquid containers. 2,639,726, May 26.

Goodman, Wolf, assignor to Southern Detector Corporation, Houston, Tex. Urinalysis device. 2,639,979, May 26.

Goodrich, B. F., Company, The, assignee : *See*—
Ambler, Robert R.
Sanders, Charles E., and Macklinnon.

Gordinier, Ralph E., Climax, Mich., assignor to Economy Faucet Company, Newark, N. J. Liquid pump. 2,639,670, May 26.

Gordon Foods, Inc., assignee : *See*—
Furniss, Henry D.

Gosling, Joseph B. : *See*—
Atlee, Zed J., and Gosling.

Goss Printing Press Company, The, assignee : *See*—
Chase, Corson W., and Manning.

Gould, Clarence, Council, Idaho. Toggle-actuated carriage bolt wrench. 2,639,638, May 26.

Graff, Alvin R., Westfield, N. J., assignor to Standard Oil Development Company. Production of substantially pure and anhydrous alcohols by distillation. 2,640,017, May 26.

Graham, Leonard D., Lynwood, Calif. Line spooling device for fishing reels. 2,639,870, May 26.

Graham, Merle J., Dickinson, N. Dak. Flush gun for automobile radiators. 2,639,908, May 26.

Graham, Robert C. : *See*—
Perry, John H., Jr., and Graham.

Grant, Ulysses F. : *See*—
Reynolds, Schuyler, and Grant.

Great Lakes Carbon Corporation, assignee : *See*—
Martin, Samuel W.

Green, James H., West Orange, and W. Makenny, Mountain View, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic multiple cavity molding with dielectric preheat. 2,639,465, May 26.

Greenberg, Samuel, assignee : *See*—
Torbert, Everyl M.

Greene, George T., Bolivar, Tenn. Reel for gathering low lying crops. 2,639,570, May 26.

Greist Manufacturing Company, The, assignee : *See*—
Taylor, Barnhardt A.

Gresham, William F., and A. J. Hill, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of higher aliphatic oxygen-containing compounds. 2,640,074, May 26.

Greske, Stephen T., Chicago, Ill. Fishing trolley with improved trolley frame. 2,639,535, May 26.

Griffith Laboratories, Inc., The, assignee : *See*—
Brown, Andrew G.

Grillo, Joseph, New York, N. Y., assignor, by mesne assignments, to Vickers Incorporated, Detroit, Mich. Electric controlling apparatus. 2,640,008, May 26.

Grimshaw, Robert S., Detroit, Mich. Vehicle wheel ornamental trim ring construction. 2,639,948, May 26.

Grist, Arthur W., assignor, by mesne assignments, to Brown & Grist Company, Newport News, Va. Window construction. 2,639,791, May 26.

Gross, Angell C., Harlingen, Tex. Fruit peeling and coring machine. 2,639,746, May 26.

Gross, William F. : *See*—
Blair, Charles M., Jr., and Gross.

Guebert, Kenneth W., Freeport, Tex., assignor to The Dow Chemical Company, Midland, Mich. Separation of sulfur dioxide and chlorine with antimony trichloride. 2,639,976, May 26.

Gulon, Charles W., Arlington, Va. Automatic electric stop gauge for winding machines. 2,639,865, May 26.

Gulf Oil Corporation, assignee : *See*—
Wagner, Bernard.

Gulf Research & Development Company, assignee : *See*—
Montgomery, Charles W., and Brown.

Gulton Manufacturing Corporation, assignee : *See*—
Howatt, Glenn N.

Gustafson, Frank T. : *See*—
Korsberg, John P., Gustafson, and Snyder.

Guyer, Morris W., assignor to Calkins Manufacturing Company, Spokane, Wash. Slurry tank for seed treating machines. 2,639,812, May 26.

Gwynne, Jacob M., O'Bannon, Ky. Window construction. 2,639,792, May 26.

Hadekel, Ruben, assignor to Electro-Hydraulics Limited, Warrington, England. Pump or motor. 2,639,673, May 26.

Hagan Corporation, assignee : *See*—
Hayes, Thomas E.

Hale, Henry E., Freeport, N. Y., assignor to Fairchild Camera and Instrument Corporation. Method of and apparatus for winding precision resistors. 2,639,864, May 26.

Hall, Melvin R., Atlantic City, N. J. Toy railway auxiliary. 2,639,548, May 26.

Hailey, Angus M., Moseley, Birmingham, England. Rotary printing machine. 2,639,666, May 26.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Preparing a dye-receptive synthetic fiber. 2,639,969, May 26.

Harding, Elmer C., assignor to Spring Load Pipe Cutter Mfg. Corp., Seattle, Wash. Pipe cutter. 2,639,501, May 26.

Hardwicke-Etter Company, assignee : *See*—
Streun, John A.

Hardy, Gordon W., Chula Vista, Calif. Chaff separator and furnace. 2,639,780, May 26.

Harris, James C. P., and L. P. Starnes, Fort Mill, S. C. Sheave and adapter. 2,639,621, May 26.

Harrison, Percy, assignee : *See*—
Pappas, Theodore, and Charette.

Harry, Thomas C., Ferndale, Mich. Mechanical hand. 2,639,437, May 26.

Hartford National Bank and Trust Company, executor : *See*—
Willgoos, Andrew V. D.

Hartman, Vern, and O. B. Gladwell, El Monte, Calif. Live bait holder. 2,639,536, May 26.

Hartwig, Edward C., Lancaster, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for cutting apparatus. 2,640,152, May 26.

Hartzell, Herman L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Making shock absorbing connections. 2,639,490, May 26.

Hasbrook, Arthur F., assignor to O. S. Petty, San Antonio, Tex. Seismic surveying. 2,640,186, May 26.

Hasbrook, Arthur F., assignor to O. S. Petty, San Antonio, Tex. Seismic surveying. 2,640,187, May 26.

Haubert, Leo, Tulsa, Okla. Pulling implement. 2,639,890, May 26.

Hawley Products Company, assignee : *See*—
Williams, John C.

Hayden, David H., Sarasota, Fla., assignor to Beach & Shore, Inc., New York, N. Y. Protection of beaches from erosion. 2,639,587, May 26.

Hayes, Thomas E., Orrville, Ohio, assignor to Hagan Corporation, Pittsburgh, Pa. Multivibrator tube circuits. 2,639,858, May 26.

Hazeltine Research, Inc., assignee : *See*—
Concelman, Carl W.

Heath, Ronald W., Long Beach, assignor to Signal Oil and Gas Company, Los Angeles, Calif. Absorption method for separating hydrocarbon gases. 2,640,008, May 26.

Heath, Ronald W., Long Beach, assignor to Signal Oil and Gas Company, Los Angeles, Calif. Steam distillation. 2,640,013, May 26.

Hecht, John R., Vancouver, British Columbia, Canada. Sawdust drying apparatus. 2,639,911, May 26.

Hees, George : *See*—
Jacobs, Harold, and Hees.
Jacobs, Harold, Hees, and Wolk.

Heinzmann, Fritz, Albershausen, Kreis Goeppingen Wurttemberg, Germany. Centrifugal switch. 2,640,120, May 26.

Heller, Richard D., Tujunga, Calif. Wire straightener. 2,639,758, May 26.

Hellman, Jacob J., Atlanta, Ga. Portable sample case with collapsible display rack. 2,639,793, May 26.

Heivern, James O., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Brake. 2,639,787, May 26.

Hendrick, Frank H., Portland, Oreg. Camber adjusting tool. 2,639,756, May 26.

Henry, Walter N., Dayton, Ohio. Nail pulling device. 2,639,887, May 26.

Herbert, William B., Ridgewood, N. J. Adjustable cam actuated hold-down clamp. 2,639,744, May 26.

Hermanson, Herman E. : *See*—
Atkins, Harry C., and Hermanson.

Herold, Edward W., Kingston, N. J., assignor to Radio Corporation of America. High voltage measuring device. 2,640,093, May 26.

Hertwig, Askan : *See*—
Nitzsche, Siegfried, Wilberg, and Hertwig.

Hertzberg, Philip, Cleveland, Ohio. Joint or coupling between tank ball and lift rod. 2,639,438, May 26.

Herzog, Eduard, Zurich, Switzerland. Bed, especially a camp bed. 2,639,442, May 26.

Hestermann, Augusto E., Malaver, Argentina. Safety brooch-fastening device. 2,639,482, May 26.

Heuer, Russell P., Villanova, Pa., assignor to General Refractories Company. Basic refractory brick and process. 2,639,993, May 26.

Heyden Chemical Corporation, assignee : *See*—
Peet, Robert B.

Hicks, William W., assignor to Ionics, Inc., San Francisco, Calif. Ion controller. 2,639,972, May 26.

Hicks, William W., assignor to Ionics, Inc., San Francisco, Calif. Ion controller. 2,640,158, May 26.

Higginbotham, Edwin S., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispensing device. 2,639,944, May 26.

Hilger & Watts Limited, assignee : *See*—
Schwarz, Ernst.

Hill, Arthur J., Jr. : *See*—
Gresham, William F., and Hill.

Hill, Max W. : *See*—
Fischl, Fred B., and Hill.

Hill, Max W., Somerville, and R. H. Jones, Kenilworth, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,640,053, May 26.

Hiltt, Otha A., Chesterfield County, and M. Kischif, Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn package formation. 2,639,872, May 26.

Hoe, R., & Co., Inc., assignee : *See*—
Albrecht, Alexander J.

Holcomb, Arthur L., Tarzana, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording system. 2,639,963, May 26.

Holcombe, Wallace P. : *See*—
Townhill, Arthur, and Holcombe.

Holley, Earl, assignee : *See*—
Medley, Harry B.
Schorn, Carl F.

Holley, George M., assignee : *See*—
Medley, Harry B.
Schorn, Carl F.

Hollman, Peter I., assignor to Geo. D. Roper Corporation, Rockford, Ill. Lighter valve unit. 2,639,765, May 26.

Hoover, Charles O., Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y. Removing sulfur from petroleum hydrocarbons. 2,640,010, May 26.

Hotchner, Fred, Los Angeles, Calif. Display projector. 2,639,918, May 26.

Housh, C. N., assignee : *See*—
Robishaw, Alrea P.

Howatt, Glenn N., assignor to Gulton Manufacturing Corporation, Metuchen, N. J. Ceramic transducer element. 2,640,165, May 26.

Howland, Louis H., Watertown, and V. S. Chambers, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Butadiene-vinylpyridene copolymer and carbon black composition. 2,640,042, May 26.

Huber, Theodore A., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Small gun for perforating casing in oil wells. 2,639,770, May 26.

Huebsch, Monte F., and A. H. De Moss, Fox Point, Wis., assignors, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio. Dry cleaning apparatus. 2,639,516, May 26.

Huether, August : *See*—
Riley, Henry M., and Huether.

Hughes, Arthur V., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Transformer cooling system control. 2,640,101, May 26.

Hull, Denison B., Winnetka, assignor to Otarion, Inc., Chicago, Ill. Hearing aid test structure. 2,640,099, May 26.

Hunt, William E., Flushing, N. Y. Rotative wing aircraft. 2,639,775, May 26.

Huntington, Harry W., Cranston, R. I. Portable sewing machine. 2,639,683, May 26.

Hybertsen, Paul S., Milwaukie, Oreg. Apparel rack. 2,639,814, May 26.

Hydrocarbon Research, Inc., assignee : *See*—
Kalbach, John C.

Hytte, Robert P. L., Lund, assignor to Aktiebolaget Separator, Stockholm, Sweden. Plate heat exchanger. 2,640,194, May 26.

Ilford Limited, assignee : *See*—
Kendall, John D., and Duffin.

Imhof, Herman A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on shoes. 2,639,446, May 26.

International Cellucotton Products Company, assignee: *See*—
Thompson, Oscar T., and Ruth.
International Standard Electric Corporation, assignee: *See*—
Clements, Desmond R.
Drake, Cyril F.
Earp, Charles W., and Cleaver.
Touraton, Emile, and Dumousseau.
Touraton, Emile, and Zwobada.
Ionics, Inc., assignee: *See*—
Hicks, William W.
Iron Fireman Manufacturing Company, assignee: *See*—
Webb, Ernest C.
Irving, Albert J., Brewster, assignor to Permark Company, Inc., New York, N. Y. Marker. 2,639,524, May 26.
Isenberg, Albert E., assignee: *See*—
Gaylord, John A.
Itsa Manufacturing Co., assignee: *See*—
Fry, Ben L.
Jacobs, Harold, St. Albans, G. Hess, and B. Wolk, Woodside, N. Y., assignors to Sylvania Electric Products, Inc. Secondary emitter and manufacture. 2,639,963, May 26.
Jacobs, Harold, St. Albans, and G. Hess, Woodside, N. Y., assignors to Sylvania Electric Products Inc. Filamentary cathode. 2,639,996, May 26.
Jacobson, Jack L., Glencoe, Ill. Laterally moving detachable leg construction. 2,639,956, May 26.
Janesville Cotton Mills, assignee: *See*—
Van Saun, Willard G.
Jawett, Joseph A.: *See*—
Bierman, Daniel H., and Jawett.
Bierman, Daniel H., Jawett, and Bierman.
Jiménez, Luis C., Panama, Panama. Typewriter page bottom margin indicator. 2,639,798, May 26.
Jirousek, Joseph F., assignor to The Chandler & Price Company, Cleveland, Ohio. Curved platen printing press. 2,639,667, May 26.
Joh. A. Benckiser, G. m. b. H., Chemische Fabrik, assignee: *See*—
Rudy, Hermann.
Johnson, Arthur B., Jr., Maywood, assignor to Furnas Electric Company, Batavia, Ill. Oiltight switchboard pilot light. 2,640,189, May 26.
Johnson, Carl L., Rockford, Ill. Dowel pin cutting and beveling machine. 2,639,739, May 26.
Johnson, Gordon, Company, assignee: *See*—
Zebarth, Ralph S.
Johnson, James P., Shaker Heights, Ohio. Controlled pressurizing of pumps. 2,639,672, May 26.
Johnson, James P., Shaker Heights, Ohio. Gear motor or pump. 2,639,694, May 26.
Johnson, S. C. & Son, Inc., assignee: *See*—
Wilder, Edward A., and Chapman.
Johnson, Theodore A.: *See*—
Brown, Gardner L., Johnson, and Knill.
Johnston, M. O., assignee: *See*—
Akers, Edward G.
Miller, Raymond S., and Sinclair.
Jones, Glen H., Minneapolis, Minn. Earth-boring machine. 2,639,892, May 26.
Jones, Harry W.: *See*—
Dempster, George R., and Jones.
Jones, Minor C. K., Elizabeth, N. J., assignor to Standard Oil Development Company. Production of mixtures of carbon monoxide and hydrogen. 2,640,034, May 26.
Jones, Robert H.: *See*—
Hill, Max W., and Jones.
Jones, Samuel, & Co., Limited, assignee: *See*—
Procter, Jack N.
Jönsson, Malte R., Astorp, Sweden. Door lining. 2,639,472, May 26.
Jordan, Curtis S.: *See*—
Sneed, Robert C., and Jordan.
Jordan, James F., Huntington Park, Calif. Continuous cupola-Bessemer process. 2,639,984, May 26.
Kacena, Richard J., Chicago, Ill. Torque converter for mixing drums. 2,639,903, May 26.
Kalb, John W., Barberton, assignor to The Ohio Brass Company, Mansfield, Ohio. Lightning arrester and parts therefor. 2,640,096, May 26.
Kalbach, John C., assignor to Hydrocarbon Research, Inc., New York, N. Y. Production of fuel gas from carbonaceous solids. 2,639,982, May 26.
Kamlet, Jonas, Easton, Conn., assignor to Mathieson Chemical Corporation. Manufacture of vanillin and its homologues. 2,640,083, May 26.
Kandle, Charles W., Chicago, Ill. Coupling for earth boring units. 2,639,931, May 26.
Kaplan, Morris L., assignor to The Shirtcraft Co., Inc., Hazleton, Pa. Zipper shirt. 2,639,432, May 26.
Keinath, George, Larchmont, N. Y. Multiple diagram-frame recorder. 2,639,964, May 26.
Keller & Co., assignee: *See*—
Bamert, Johann.
Kelley, William B., Pawtucket, R. I., assignor to Owens-Corning Fiberglas Corporation. Air blower for linearly feeding a continuous strand. 2,639,487, May 26.
Kellogg Switchboard and Supply Company, assignee: *See*—
Arthur, Richard P.
Kelly, Edna M., administratrix: *See*—
Kelly, Richard N.
Kelly, Richard N., deceased, Anaconda, Mont.; E. M. Kelly, administratrix. Spreading attachment for lawn mowers. 2,639,571, May 26.
Kendall, John D., and G. F. Duffin, assignors to Ilford Limited, Ilford, England. Improving the whiteness or color of materials and products resulting therefrom. 2,639,990, May 26.
Kendall, John D., and G. F. Duffin, assignors to Ilford Limited, Ilford, England. Pyrazoline sulphonic acids. 2,640,056, May 26.
Ketchledge, Raymond W., Middlesex, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Temperature control system. 2,640,137, May 26.
Klachif, Messoud: *See*—
Hitt, Otha A., and Klachif.
Kibler, Alfred G.: *See*—
Spurlino, Pascal, Kibler, Moser, and Wolf.
Klekhaefer, Elmer C., Cedarburg, Wis. Two-cycle engine and improved crankcase induction means therefor. 2,639,699, May 26.
Klenast, Alfred, Kuesnacht, Switzerland. Control pulse distributing system. 2,640,188, May 26.
Kliness, Jarvis, Bridal Veil, Oreg. Railroad car moving jack. 2,639,888, May 26.
Kimball, A., Company, assignee: *See*—
Weimont, Joseph.
King, Harold S., assignor to Penn Controls, Inc., Goshen, Ind. Time-pressure control. 2,640,121, May 26.
King, John A., Manhasset, and F. H. McMillan, assignor to Warner-Hudnut, Inc., New York, N. Y. Amides. 2,640,055, May 26.
Kinn, Theodore P., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Microwave heating. 2,640,142, May 26.
Kirby, Robert E.: *See*—
Vore, Milton P., and Kirby.
Kirschmann, John D., Regent, N. Dak. Brick and tile laying machine. 2,639,608, May 26.
Kitto, William H.: *See*—
McMaster, Archie J., Kitto, and Burian.
Klager, Karl, Monrovia, Calif. Valeric acid derivatives. 2,640,072, May 26.
Klammer, George, trustee, assignee: *See*—
Von Szilágyi, Franz.
Klinsing, August F., Milwaukee, Wis. Animal actuated drinking fountain. 2,639,690, May 26.
Klopfenstein, N. W., assignee: *See*—
White, William C.
Knapp-Monarch Company, assignee: *See*—
Lautner, Max E.
Knill, Robert B.: *See*—
Brown, Gardner L., Johnson, and Knill.
Knutson, Woodrow K., La Crosse, Wis. Outboard motor lock. 2,639,605, May 26.
Kobler, Victor and W., Zurich, Switzerland. Combination envelope opener and paper sheet cutter. 2,639,771, May 26.
Kobler, Werner: *See*—
Kobler, Victor and W.
Koch, Frederick, Sparta, assignor to C. Todd, Rutherford, N. J., as trustee. Stock reel. 2,639,871, May 26.
Kochis, John, Melvindale, Mich. Indenting press for the hollow arbor of a cannon pinion. 2,639,635, May 26.
Kock, Winston E., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Achromatic lens antenna. 2,640,154, May 26.
Kohl, Charles F., Jr., Pittsburgh, Pa., assignor to Corning Glass Works, Corning, N. Y. Fluorohydrocarbon substituted silanols. 2,640,063, May 26.
Kohl, Charles F., Jr., Pittsburgh, Pa., assignor to Corning Glass Works, Corning, N. Y. Organo silicon compounds and their preparation. 2,640,066, May 26.
Kolker, Milton, assignee: *See*—
Torbert, Everyl M.
Korsberg, John F., F. T. Gustafson, and G. Snyder, assignors to Boeing Airplane Company, Seattle, Wash. Structural joint. 2,639,788, May 26.
Korzdorfer, John J., Rumson, assignor to Bendix Aviation Corporation, Teterboro, N. J. Dynamoelectric machine. 2,640,181, May 26.
Kovacs, Julius P., Newark, assignor to PurOlator Products, Inc., Rahway, N. J. Oil filter and pressure regulation system for engines. 2,639,783, May 26.
Krantz, Walter M., Youngstown, Ohio. Screen insert for storm windows. 2,639,709, May 26.
Krasnow, Shelley, Fairfax County, Va., and M. J. Teat, Kansas City, Mo., assignors to Schlumberger Well Surveying Corporation, Houston, Tex. Energizing system for borehole radioactivity apparatus. 2,640,161, May 26.
Kuebler, Walter A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Digester tower. 2,639,902, May 26.
Kvalnes, Hamline M.: *See*—
Bruner, Walter M., and Kvalnes.
Kymin Osakeyhtio-Kymmene Aktiebolag, assignee: *See*—
Kyrklund, Gunnar.
Kyrklund, Gunnar, assignor to Kymin Osakeyhtio-Kymmene Aktiebolag, Kuusankoski, Finland. Method in sulfite pulping for obtaining concentrated waste liquor. 2,639,986, May 26.

Lake, Lillian M., Manhattan Beach, Calif. Sock drier. 2,639,845, May 26.
Lambert, Harry L., Rochester, N. Y., assignor to Commercial Controls Corporation. Mail marking machine for sheets or tapes. 2,639,665, May 26.
Lambert, Marion L. J., assignee: *See*—
Thompson, Parke H.
Lamont, Archie G. W.: *See*—
Ross, Alvin H. A., Farmer, and Lemont.
Landau, Edward F.: *See*—
Salvin, Victor S., and Landau.
Landis Tool Company, assignee: *See*—
Balsiger, Harold E.
Price, Ralph E.
Lange, Max H., New York, N. Y. Chain machine. 2,639,755, May 26.
La Plante, Robert J.: *See*—
Fett, Gilbert H., and La Plante.
Larkin, Roger A., Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Determining insect parts in cereal flour. 2,639,617, May 26.
Laserson, Frederick M., Los Angeles, Calif. Micrometer. 2,639,510, May 26.
Lauter, Werner M.: *See*—
Foote, Perry A., Lauter, and Baxter.
Lautner, Max E., assignor to Knapp-Monarch Company, St. Louis, Mo. Air fan heater. 2,640,139, May 26.
Lautzenhiser, Argyle G.: *See*—
Short, Brooks H., and Lautzenhiser.
Lawson, Holger L., Montreal, Quebec, Canada. Automatic cooker. 2,639,657, May 26.
Lawson, Jack D.: *See*—
Zollars, Richard U., Lawson, and Berry.
Laycott, Helen A., Battle Creek, Mich. Simplified pack of cards for playing canasta or the like. 2,639,922, May 26.
Lazaro, Angelo, administrator: *See*—
Lazaro, Anton M.
Lazaro, Anton M., deceased; A. Lazaro, administrator of said A. M. Lazaro, assignor to M. Lazaro, Chicago, Ill. Electroplating barrel. 2,640,025, May 26.
Lazaro, Madelaine, assignee: *See*—
Lazaro, Anton M.
Leake, Norman H.: *See*—
De Benneville, Peter L., Leake, and Bock.
Lebus, William A., assignor to The Protectoseal Company, Chicago, Ill. Flame arrester. 2,639,705, May 26.
Ledrut, Jules H. T., assignor to Luxema S. A., Ixelles (Brussels), Belgium. 1-phenyl-2 (methyl-camphosulfonyl) amino propanols. 2,640,076, May 26.
Ledwith, Walter A., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Rotor construction for compressors and turbines. 2,639,885, May 26.
Lee, Elmer E., Minneapolis, Minn. Combination brief case and hand protecting pocket. 2,639,749, May 26.
Lee, Wilson A., Amarillo, Tex. Barber's clippers stand. 2,639,820, May 26.
Le Fevre, Walter J., and H. W. Moll, assignors to The Dow Chemical Company, Midland, Mich. Copolymerizing vinylidene chloride and vinyl chloride. 2,640,050, May 26.
Legrand, Jean C., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Drill hole gauge. 2,639,512, May 26.
Lehman, Rodney L., assignor to Brogdex Company, Pomona, Calif. Nonsweating stabilized wax composition and making the same. 2,640,040, May 26.
Leibu, Henry J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carbonylation of aryl halides. 2,640,071, May 26.
Leits, Ernst, G. m. b. H., assignee: *See*—
Rinker, Wilhelm.
Leong, Chew Hock, Singapore, Straits Settlements. Combined cigarette support, extinguisher, and economizer. 2,639,718, May 26.
Le Pome, Charles J.: *See*—
De Tar, Le Los F., and Le Pome.
Less, Joseph W., Clinton, Iowa. Collar attachment. 2,639,435, May 26.
Lester, George C., Tulsa, Okla. Shoelace. 2,639,481, May 26.
Le Tang, Leo R., Cincinnati, Ohio. Missal stand. 2,639,541, May 26.
Leva, Max, Pittsburgh, Pa., assignor to The United States Stoneware Company. Tower packing. 2,639,909, May 26.
Levine, Ira, Chicago, Ill. Fishline holder. 2,639,869, May 26.
Levine, Samuel: *See*—
Cohen, Abraham J., Levine, Caminear, and Price.
Levy, Sidney, assignor to The National Cash Register Company, Dayton, Ohio. Indicator illuminating device. 2,640,144, May 26.
Lewin, Gerhard, Maplewood, and E. A. Goldman, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device cathode. 2,640,171, May 26.
Lewis, Clay E., and H. R. Longfellow, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Coaxial cable splice and making it. 2,640,095, May 26.
Libbey-Owens-Ford Glass Company, assignee: *See*—
Ryan, Joseph D., and Mattimoe.
Liebowitz, Benjamin, Lewisboro, assignor to Trubenizing Process Corporation, New York, N. Y. Garment parts and foldline-forming means therefor. 2,639,433, May 26.
Liebowitz, Benjamin, Lewisboro, assignor to Trubenizing Process Corporation, New York, N. Y. Collar and like garment parts. 2,639,434, May 26.
Liebowitz, Benjamin, Lewisboro, assignor to Trubenizing Process Corporation, New York, N. Y. Method and apparatus for making collars. 2,639,841, May 26.
Liebowitz, Benjamin, Lewisboro, assignor to Trubenizing Process Corporation, New York, N. Y. Method and apparatus for the manufacture of collars. 2,639,842, May 26.
Liebowitz, Benjamin, Lewisboro, assignor to Trubenizing Process Corporation, New York, N. Y. Method and apparatus for the manufacture of collars. 2,639,843, May 26.
Ligett, Waldo R., Berkley, R. D. Closson, Detroit, and C. N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y. Succinhydrazides. 2,640,005, May 26.
Ligett, Waldo R., Berkley, R. D. Closson, Detroit, and C. N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y. N-organolead-phthalimides as fungicides. 2,640,006, May 26.
Lindsay, Harold W., Redwood City, assignor to Ampex Electric Corporation, San Carlos, Calif. Tape reel mounting. 2,639,867, May 26.
Liquidepth Indicators Incorporated, assignee: *See*—
Bierman, Daniel H., and Jawett.
Bierman, Daniel H., Jawett, and Bierman.
Lomax, Clarence E., Chicago, and R. J. Gallagher, River Forest, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone pay station circuit. 2,640,107, May 26.
Longfellow, Harold R.: *See*—
Lewis, Clay E., and Longfellow.
Lory, George, Los Angeles, Calif. Curve pen adapter. 2,639,306, May 26.
Lubbock Machine Company, Inc., The, assignee: *See*—
Ream, Floyd D.
Lubin, Sylvan M., Spokane, Wash. Novelty clock device. 2,639,577, May 26.
Lundberg, Sven H., Lidingo, Sweden. Carrier for eyeglasses, dimmer-glasses, and the like. 2,639,429, May 26.
Luxema S. A., assignee: *See*—
Ledrut, Jules H. T.
Lynch, Charles S., Bartlesville, Okla., assignor to Phillips Petroleum Company. Decomposition of urea and thiourea adducts. 2,640,051, May 26.
M B G Corporation, assignee: *See*—
Mitchell, Wallace F.
Macey, Keith S., Parma Heights, assignor to Macey Manufacturing Company, Cleveland, Ohio. Pile elevator. 2,639,917, May 26.
Macey Manufacturing Company, assignee: *See*—
Macey, Keith S.
Machlett Laboratories, Incorporated, assignee: *See*—
Agule, George J.
MacKinnon, John C.: *See*—
Sanders, Charles E., and MacKinnon.
MacLean, Thomas T., assignor to Anglo-Iranian Oil Company Limited, London, England. Helmet. 2,639,428, May 26.
Macomson, Wistar W.: *See*—
Bates, Arthur H., Jr., Babo, Mullinax, and Macomson.
Macy, James C., New Cumberland, assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa. Tool for crimping ferrules. 2,639,754, May 26.
Madden, Homer W., Hanover, Ind. Tin can stacker. 2,639,823, May 26.
Magerkorth Wilhelm A., assignor to National Rubber Machinery Company, Akron, Ohio. Extrusion apparatus. 2,639,464, May 26.
Magid, Philip, Brooklyn, N. Y. Strap connector. 2,639,480, May 26.
Majauskas, Charles J., Chicago, Ill. Ventilator for water closets. 2,639,440, May 26.
Makenny, William: *See*—
Green, James H., and Makenny.
Malone, Grover C., East Point, Ga. Illuminated awning. 2,640,143, May 26.
Manheim Manufacturing and Belting Company, assignee: *See*—
Ginder, Henry E.
Mankowich, Ivan: *See*—
Glenn, Harry D., and Mankowich.
Mann, James D.: *See*—
Brass, Philip D., and Mann.
Manning, Kent R.: *See*—
Chase, Corson W., and Manning.
Marchand, Nathan, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Shiftable directional antenna. 2,640,192, May 26.
Marks, Saul H., Brooklyn, assignor to Phoenix Closet Accessories, Inc., New York, N. Y. Knockdown shelving. 2,639,819, May 26.
Marshall, Donald E., Summit, N. J., assignor to Micro Processing Equipment, Inc., Des Plaines, Ill. Process and apparatus for continuously processing and extruding plasticizing materials. 2,640,033, May 26.

Martin, Philip, North Hollywood, assignor to Foster's Freeze National Corporation, Los Angeles, Calif. Dispenser. 2,639,678, May 26.

Martin, Samuel W., Chicago, Ill., assignor to Great Lakes Carbon Corporation, New York, N. Y. Manufacture of coke. 2,640,016, May 26.

Martt, Ernest C., Chagrin Falls, Ohio., assignor to General Electric Company. Jacketed and double ended lamp unit. 2,640,145, May 26.

Mason, Ralph B., and H. J. Rose, Baton Rouge, La., assignors to Standard Oil Development Company. Desulfurization of heavy petroleum oils. 2,640,011, May 26.

Matchett, Henry I., Philadelphia, Pa. Deodorizing toilet paper holder. 2,639,939, May 26.

Mathieson Chemical Corporation, assignee: *See*—
Carr, Ralph L.
Churchill, John W.
Kamlet, Jonas.
Robson, Homer L.

Mattimoe, Paul T.: *See*—
Ryan, Joseph D., and Mattimoe.

Mawney, Robert G.: *See*—
Vaughan, Victor G., Mawney, and Bagnall.

May, Andrew J., Longview, Wash. Barber shears. 2,639,504, May 26.

McCandless, Stanley, Hamden, Conn., assignor to Century Lighting, Inc., New York, N. Y. Reflector for controlling at a predetermined angle direct and indirect rays from a light source. 2,640,148, May 26.

McCann, Kathleen M., Weehawken, N. J. Clothes catcher for ironing boards. 2,639,522, May 26.

McCarten, F. M., assignee: *See*—
Perry, Guy A.

McCormick, Michael, assignor of one-half to G. Candler, New York, N. Y. Automatic shoe rest and support. 2,639,457, May 26.

McCracken, John L., Erie, Pa. Cigarette lighter case. 2,639,598, May 26.

McCullough, Donald J., Downers Grove, Ill. Spring group. 2,639,914, May 26.

McCurdy, Robert J., Bridgeboro, N. J., assignor to Radio Corporation of America. Trigger circuit. 2,640,153, May 26.

McDermott, Henry J., Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del. Adjustable thread advancing roll. 2,639,486, May 26.

McDonald, Jack, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of phenol-furfural resins. 2,640,045, May 26.

McHugh, James H., assignee: *See*—
Cole, Lawrence D.

McKee, Arthur G., Cleveland, Ohio. Apparatus for growing tender plants. 2,639,550, May 26.

McKee, Arthur G., Cleveland, Ohio. Greenhouse with means for controlling light and heat. 2,639,551, May 26.

McKowen, William, Des Moines, Iowa. Filler block for loose-leaf binders. 2,639,713, May 26.

McLaughlin, Alvin, Woodburn, Oreg. Nut harvesting machine. 2,639,573, May 26.

McLean, Stuart, Willoughby Township, Lake County, Ohio, assignor to General Electric Company. Forming a transparent reflection reducing coating on glass and the article resulting therefrom. 2,639,999, May 26.

McMaster, Archie J., Deerfield, W. H. Kitto, Evanston, and K. Burian, assignors to G-M Laboratories, Inc., Chicago, Ill. Mixer. 2,639,904, May 26.

McMillan, Freeman H.: *See*—
King, John A., and McMillan.

McMullen, Frederick E., Rochester, and T. H. Peck, Irondequoit, assignors to The Gleason Works, Rochester, N. Y. Gear finishing machine. 2,639,557, May 26.

McNairy, Jacob W., Westport, Conn., assignor to General Electric Company. Transmission and clutch for clothes washers. 2,639,618, May 26.

McNairy, Jacob W., Westport, Conn., assignor to General Electric Company. Drive clutch for washing machines or the like. 2,639,704, May 26.

McNamee, Paul D., deceased (R. K. McNamee, executrix), Washington, D. C., A. B. Fay, Montgomery County, Md., and T. S. Derry, assignors to P. D. McNamee, A. B. Fay, T. S. Derry, R. E. Fuhrman, J. Rice, and H. Schreiber, Washington, D. C. Sewage sludge digestion process. 2,640,027, May 26.

McNamee, Ruth K., executrix: *See*—
McNamee, Paul D., Fay, and Derry.

McNeil, John W.: *See*—
Ambrette, Louis C., and McNeil.

Medley, Harry B., Detroit, Mich., assignor to G. M. and E. Holley. Fastening means for closures. 2,639,834, May 26.

Melancon, Dudley, assignee: *See*—
Freeman, Dewey J.

Meletron Corporation, assignee: *See*—
Starbird, George A.

Merahn, Emanuel, Brooklyn, N. Y. Simulated golf club beverage and cup container. 2,639,804, May 26.

Merrill, Patterson D., South Bend, Ind. Film holder. 2,639,530, May 26.

Merritt, Jack A., assignor to Universal Engine Heater Company, Spokane, Wash. Heater for the coolant liquid of internal-combustion engines. 2,640,138, May 26.

Metals & Controls Corporation, assignee: *See*—
Vaughan, Victor G., Mawney, and Bagnell.

Meyer, Geo. J., Manufacturing Company, assignee: *See*—
Meyer, George L. N.

Meyer, George L. N., Milwaukee, assignor to Geo. J. Meyer Manufacturing Company, Cudahy, Wis. Processing container for carbonated beverages. 2,639,840, May 26.

Meyer, Walter E., and G. L. Flaherty, Fond du Lac County, assignors to The Michler Company, Fond du Lac, Wis. Bumper for tractors and the like. 2,639,933, May 26.

Michel, William G., Three Rivers, Mich. Ironing board holder. 2,639,879, May 26.

Michler Company, The, assignee: *See*—
Meyer, Walter E., and Flaherty.

Micro Processing Equipment, Inc., assignee: *See*—
Marshall, Donald E.

Mid-West Bottle Cap Co., assignee: *See*—
Sonnenberg, Rudolph.

Miklos, Heinrich, Vienna, Austria, assignor to AVE Transportmittel Holding A. G., St. Moritz, Switzerland. Baby carriages or the like having individually rockably supported axles. 2,639,925, May 26.

Miller, Harry E., deceased, Madison, N. J.; J. F. Wallace, executor of said H. E. Miller, assignor to Childhood Interests, Inc., Roselle Park, N. J. Child's pounding toy. 2,639,542, May 26.

Miller, Herman, Detroit, Mich. Swingable door for tumbler type clothes washing machines. 2,639,601, May 26.

Miller, James B.: *See*—
Ainsworth, Arthur R., and Miller.

Miller, Lloyd G.: *See*—
Eich, Frank A., and Miller.

Miller, Raymond S., Hollywood, and G. W. Sinclair, Los Angeles, assignors to M. O. Johnston, Glendale, Calif. Hydraulic control valve and system. 2,639,693, May 26.

Milner, Arthur E. P., Melbourne, and R. G. Tugen, Hawthorn, Victoria, Australia. Seamless cover tennis ball and manufacture. 2,639,920, May 26.

Miner, W. H., Inc., assignee: *See*—
Danielson, Vernon S.
Olander, Roland J.

Mining Engineering Company Limited, The, assignee: *See*—
Duncan, Augus W.

Miseo, Anthony, New York, N. Y. Obstetrical forceps. 2,639,712, May 26.

Misfeldt, Charles C., Phoenix, Ariz. Molded structure. 2,639,876, May 26.

Mitchell, Wallace F., assignor to M B G Corporation, Chicago, Ill. Fluid valve. 2,639,884, May 26.

Moessinger, Albert, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Weaving machinery and control. 2,639,732, May 26.

Mojonnier Bros. Co., assignee: *See*—
Mojonnier, Harry G.

Mojonnier, Harry G., Oak Park, assignor Mojonnier Bros. Co., Chicago, Ill. Liquid cooling apparatus. 2,639,591, May 26.

Molins, Desmond W., Deptford, London, assignor to Molins Machine Company Limited, London, England. Mouthpiece cigarette. 2,639,715, May 26.

Molins Machine Company Limited, assignee: *See*—
Molins, Desmond W.

Moll, Harold W.: *See*—
Le Fevre, Walter J., and Moll.

Monchamp, George E.: *See*—
Packer, Lewis C., Cross, and Monchamp.

Montgomery, Charles W., Oakmont, and C. S. Brown, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Treatment of hydrocarbons with hydrogen. 2,640,009, May 26.

Moon, Robert J.: *See*—
Shaw, Albert E., and Moon.

Morde, Albert, New Bedford, Mass. Priming device. 2,639,702, May 26.

Morrison, Montford, Upper Montclair, N. J. Time keeping device motor. 2,640,175, May 26.

Moseley, Alexander T., Dallas, Tex. Bur extractor for unginned or seed cotton. 2,639,467, May 26.

Moser, Rudolph J.: *See*—
Spurlino, Pascal, Kibler, Moser, and Wolf.

Motch, Edwin R., Jr.: *See*—
Rose, Howard E., Motch, and Baus.

Motch & Merryweather Machinery Co., The, assignee: *See*—
Rose, Howard E., Motch, and Baus.

Motch & Merryweather Machinery Company, The, assignee: *See*—
Rose, Howard E., and Sampson.

Moullec, Jean, Penhars près Quimper, France. Counterbeating device for threshing machines. 2,639,714, May 26.

Mozel, Joe, Portland, Oreg. Coin controlled ball teeing machine. 2,639,919, May 26.

Muller, Frederic A., Coppet, Switzerland, and R. Saffores, Paris, France, assignors to Carbonisation et Exploitations Forestières S. A. (C. E. F.), Geneva, Switzerland. Preparation of white zinc oxide, starting from carbonated zinc ores. 2,639,975, May 26.

Müller, Theodor, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Rotary pump and motor hydraulic transmission. 2,639,586, May 26.

Mullinax, Charles F.: *See*—
Bates, Arthur H., Jr., Bobo, Mullinax, and Macomson.

Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Fluid operated clutch. 2,639,795, May 26.

Munsingwear, Inc., assignee: *See*—
Chatfield, Franklin.

Murdoch, John P., and A. J. Faulhaber, Ardmore, Pa. Universal packaging machine. 2,639,567, May 26.

Myers, John H., assignor to Waldorf Paper Products Company, St. Paul, Minn. Garment hanger hook attaching device. 2,639,499, May 26.

N. V. Amsterdamsche Chininefabriek, assignee: *See*—
Veldstra, Hanze.

N. V. Betonfabriek "De Meteoor," assignee: *See*—
Voslamber, Berend J.

Napier, D., & Son Limited, assignee: *See*—
Tryon, Henry C.

Nash-Kelvinator Corporation, assignee: *See*—
Philipp, Lawrence A.

National Brass Company, assignee: *See*—
Young, Herbert.

National Cash Register Company, The, assignee: *See*—
Levy, Sidney.
Spurlino, Pascal, Kibler, Moser, and Wolf.

National Gypsum Company, assignee: *See*—
Teale, Robert R.

National Paper Can & Tube Company, assignee: *See*—
Berenson, Henry J.

National Rubber Machinery Company, assignee: *See*—
Magerkurth, Wilhelm A.

National Supply Company, The, assignee: *See*—
Spalding, John D.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Pett, Gilbert H., and La Plante.
Schultz, Howard L.
Wallman, Henry.
Wu, William I.

Naylor, Marcus A., Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of amides. 2,640,077, May 26.

Neal, Cecil: *See*—
Brock, William P., and Neal.

Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek, assignee: *See*—
Wubben, Gerrit J. H. E., and Steiner.

Neely, William H., assignor to The Universal Wire Spring Company, Cleveland, Ohio. Wire spring. 2,639,763, May 26.

Nelson, Delbert H., Modesto, Calif. Paint brush rest. 2,639,835, May 26.

Nelson, Karl J., Cranford, N. J., assignor to Standard Oil Development Company. Carbonizing coal. 2,640,015, May 26.

Neros, Clifford A.: *See*—
Seyb, Leslie P., and Neros.

Neves, Alfred S., Honolulu, Hawaii. Wall construction, including upper and lower panels and diagonal strips joining the same. 2,639,471, May 26.

Nevin, Scott, assignor to Farnsworth Research Corporation, Fort Wayne, Ind. Heated cathode electron multiplier. 2,640,169, May 26.

New Britain Machine Company, The, assignee: *See*—
Harry, John J., and Retz.

Newman, Robert J., and D. S. Friend, London, England. Labeling machine. 2,639,831, May 26.

Ney, William O., Jr., Somerset Center, Mass., assignor to General Aniline & Film Corporation, New York, N. Y. Dehydrohalogenation of dihalopropionic acid compounds. 2,640,073, May 26.

Niagara Machine & Tool Works, assignee: *See*—
Dean, Reeve W.
Munschauer, Frederick E.

Nies, Brainard W., Crystal Lake, and E. W. Duffy, assignors to United States Gypsum Company, Chicago, Ill. Preparing patterns. 2,639,478, May 26.

Nitzsche, Siegfried, Burghausen, Oberbayern, and E. Wiberg, and A. Hertwig, Seelze, Munirh, Germany. Production of organosilanes. 2,640,065, May 26.

Nixdorff, Samuel P.: *See*—
Alexanderson, Ernst F. W., and Nixdorff.

Northrop Airrraft, Inc., assignee: *See*—
Northrop, John K., Denzin, and Smith.
Vogel, Alvin R.

Northrop, John K., Hawthorne, E. C. Denzin, Los Angeles, and D. B. Smith, Inglewood, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Controlled deceleration device. 2,639,786, May 26.

Norton Company, assignee: *See*—
Swainey, Homer L.

Oakes, George W., Crystal City, Mo. Trap. 2,639,539, May 26.

Ochsner, Raymond B., Hinsdale, Ill. Display device. 2,639,528, May 26.

O'Farrell, Frank, assignor to Delfra Products Co., Inc., Long Beach, Calif. Coat hanger with integral moth repellent receiving ends. 2,639,846, May 26.

O'Hear, James C.: *See*—
Sunderhauf, Frederick A., and O'Hear.

Ohio Brass Company, The, assignee: *See*—
Kalb, John W.

Okulitch, George J.: *See*—
Zozulin, Igor V., Okulitch, Volkoff, Okulitch, and Ellett.

Okulitch, Vladimir J.: *See*—
Zozulin, Igor V., Okulitch, Volkoff, Okulitch, and Ellett.

Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Clutch shifting means for hand brakes of railway cars. 2,639,627, May 26.

Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Clutch shifting mechanism for geared hand brakes. 2,639,628, May 26.

Oliver, John: *See*—
Hurn, Lewis, Todd, and Oliver.

Olson, Elmer, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Carburetor. 2,639,907, May 26.

Olson, Harry F., Princeton, and J. Preston, Metedeconk, N. J., assignors to Radio Corporation of America. Second order gradient directional microphone. 2,640,110, May 26.

Omni Products Corporation, assignee: *See*—
Tomonari, Tenkumo.

O'Neil, Paul T., Englewood, N. J., assignor to Connecticut Telephone and Electric Corporation, Meriden, Conn. Telephone instrument. 2,640,109, May 26.

Oppel, John A., Aldan, and E. J. Frank, Springfield, Pa., assignors to General Electric Company. Transitory latching switch mechanism. 2,640,122, May 26.

Otarion, Inc., assignee: *See*—
Hull, Denison B.

Otte, Karl H., Chicago, Ill., assignor to Purity Bakeries Service Corporation. Pan dumping device. 2,639,827, May 26.

Otte, Karl H., Chicago, Ill., assignor to Purity Bakeries Service Corporation. Extracting device for bakery products. 2,639,828, May 26.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Bay, Ernest.
Kelley, William B.
Simison, Allen L.

Owens, Freeman H., New York, N. Y. Volume control. 2,640,104, May 26.

Pachmayr, Frank A., Culver City, Calif. Latch means for telescopic gun sights. 2,639,507, May 26.

Pacific Mills, assignee: *See*—
Bates, Arthur H., Jr., Bobo, Mullinax, and Macomson.

Packer, Lewis C., East Longmeadow, R. H. Cross, Springfield, and G. E. Monchamp, Holyoke, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Means for testing rotors. 2,640,100, May 26.

Padel, William E.: *See*—
Durant, Leslie B., and Padel.

Page, Robert G.: *See*—
Rowe, Raymond N., and Page.

Pako Corporation, assignee: *See*—
Sardeson, Robert, and Dye.

Palmateer, Russell E., Emporium, Pa., assignor to Sylvania Electric Products Inc. Electrophoretic borating of copper wire. 2,640,024, May 26.

Palmer, Raymond C., Chicago, Ill. Attachment for lathes. 2,639,643, May 26.

Palurk, Alexander E., Belfield, N. Dak. Tool rack. 2,639,815, May 26.

Papermaster, Roy L., Beverly Hills, Calif. Thermometer case with means for swinging the same. 2,639,614, May 26.

Pappas, Theodore, and J. A. Charette, Detroit, assignors to P. Harrison, Wayne County, Mich. Artificial fishing plug and lure also means and method for making. 2,639,743, May 26.

Parham, Grover C., Dalton, Ga., assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular knitting machine having a latch lifter and operating same. 2,639,596, May 26.

Parks, Purl O., North Liberty, Iowa. Dolly or trailer assembly. 2,639,926, May 26.

Parry, Harvey L., Berkeley, and Q. T. Wiles, Lafayette, assignors to Shell Development Company, Emeryville, Calif. Fatty acid salts of nitrogen-containing polyethers. 2,640,037, May 26.

Parsons, John R., Kenmore, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Welding apparatus. 2,640,180, May 26.

Passal, Frank, Detroit, Mich., assignor to United Chromium, Incorporated, New York, N. Y. Composition, bath, and process for chromium plating. 2,640,021, May 26.

Pastorius, Fritz J., San Carlos, Calif. Remotely controlled toy car. 2,639,545, May 26.

Pasturczak, Stanley F., East Moline, assignor to Deere & Company, Moline, Ill. Self-propelled harvester with automatically controlled variable-speed drive. 2,639,569, May 26.

Patent License Corporation, assignee: *See*—
Arenberg, Albert L.

Pater, Paul G., assignor to Columbia Machinery and Engineering Corporation, Hamilton, Ohio. Relief device for power presses. 2,639,619, May 26.

Patterson, Howard R.: *See*—
Buttino, Albert L., and Patterson.

Pavlic, Albert A., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Applying ink to ethylene polymer surfaces. 2,639,998, May 26.

Paxton, William J.: *See*—
Fahnoe, Harold H., and Paxton.

Pearlman, Bernard, Morristown, assignor to Reaction Motors, Inc., Rockaway, N. J. Mount for reaction motors. 2,639,582, May 26.

Peck, Theodore H.: *See*— McMullen, Frederick E., and Peck.

Peck, William H., Royal Oak, Mich. Power-operated, predetermined torque release wrench. 2,639,636, May 26.

Peel, Francis D., Greenville, N. C. Grater. 2,639,748, May 26.

Peet, Robert B., Branford, Conn., assignor to Heyden Chemical Corporation, New York, N. Y. Crystallizing dihydrostreptomycin sulfate. 2,640,054, May 26.

Peitz, Martin F., Garden City, Kans. Flexible governor control for internal-combustion engine throttle valves. 2,639,700, May 26.

Penn Controls, Inc., assignee: *See*— King, Harold S.

Perry, Guy A., assignor to F. M. McCarten, Stillwater, Minn. Bedpan. 2,639,439, May 26.

Permark Company, Inc., assignee: *See*— Irving, Albert J.

Perry, John H., Jr., Palm Beach, Fla., and R. C. Graham, Elizabeth, N. J., assignors, by mesne assignments, to J. H. Perry, Jr., West Palm Beach, Fla. Process and apparatus for preparing a printing plate. 2,639,995, May 26.

Perry, Robert E., G. Ansel, and R. L. Dietrich, assignors to The Dow Chemical Company, Midland, Mich. Extrusion of continuous metal articles. 2,639,809, May 26.

Petrolite Corporation, assignee: *See*— Blair, Charles M., Jr., and Gross.

Petty, Olive S., assignee: *See*— Hasbrook, Arthur F.

Phane, Walter J., assignor to Wingfoot Corporation, Akron, Ohio. Inflating means. 2,639,750, May 26.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerator having refrigerant cooled liner. 2,639,592, May 26.

Phillips, Arthur H., assignee: *See*— Swinamer, Robert A.

Phillips Petroleum Company, assignee: *See*— Lynch, Charles S.

Phoenix Closet Accessories, Inc., assignee: *See*— Marks, Saul H.

Physics Research Associates, assignee: *See*— Shaw, Albert E., and Moon.

Pickard, Edwin C., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Vehicle body pillar and trim assembly. 2,639,938, May 26.

Pierce, John B., Foundation, assignee: *See*— Da Fano, Ettore.

Pierce, Martin, Aurora, Ill. Receptacle support. 2,639,878, May 26.

Pierce, Robert E., Seattle, Wash. Ladder structure. 2,639,853, May 26.

Pigott, Charles R., McComb, Miss. Safety rope socket for well tubes. 2,639,893, May 26.

Pikal, Harry, Bangor, Mich. Automatically releasable chuck for conveyers and the like. 2,639,799, May 26.

Pike, Milow W., Omaha, Nebr. Tire chain and chain tightener. 2,639,753, May 26.

Piwczynski, Edward F., and R. Galinski, New Britain, Conn. Glare eliminating device for rearview mirrors of motor vehicles. 2,639,641, May 26.

Polk, Laurence N., and J. H. Coulliette, Chattanooga, Tenn. Silicone rubber ironing pad. 2,639,519, May 26.

Pollard, Charles E., Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Formation of a surface easily wettable by mercury. 2,640,020, May 26.

Polly, Orville L., and C. H. O. Berg, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Separation of hydrocarbons. 2,639,782, May 26.

Potter, Howell L., assignor to The Fafnir Bearing Company, New Britain, Conn. Sealed bearing. 2,639,954, May 26.

Pouchot, Walter D., Prospect Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Combustion products reaction motor with variable area exhaust nozzle. 2,639,578, May 26.

Power Jets (Research & Development) Limited, assignee: *See*— Cohen, Henry, and Darth.

Prather, John B., Yonkers, N. Y. Vessel with turbine for rotating container while heating or cooling. 2,639,897, May 26.

Pratt, Raymond C., Chicago, Ill. Closure structure. 2,639,766, May 26.

Preston, John: *See*— Olson, Harry F., and Preston.

Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Cam grinder. 2,639,559, May 26.

Price, Stephen S.: *See*— Cohen, Abraham J., Levine, Caminear, and Price.

Procter, Jack N., assignor to Samuel Jones & Co., Limited, London, England. Device for moistening adhesive labels and for feeding sheets. 2,639,688, May 26.

Product Development Engineering Research and Promotion Corporation, assignee: *See*— Smereck, Arthur.

Prosperity Company, Inc., The, assignee: *See*— Sando, Joseph B., and Gayring.

Protectoseal Company, The, assignee: *See*— Lebus, William A.

Pucher, Leo E., South Euclid, and W. A. Cunningham, assignors to Willard Storage Battery Company, Cleveland, Ohio. Battery. 2,640,090, May 26.

Pucher, Leo E., South Euclid, and W. A. Cunningham, assignors to Willard Storage Battery Company, Cleveland, Ohio. Battery. 2,640,091, May 26.

Pure Oil Company, The, assignee: *See*— Alcorn, Irwin W.

Puclty Bakeries Service Corporation, assignee: *See*— Otte, Karl H.

Puro, John F., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Electrically controlled dashpot for carburetor throttles. 2,639,778, May 26.

PurOlator Products, Inc., assignee: *See*— Kovacs, Julius P.

Radio Corporation of America, assignee: *See*— Herold, Edward W.
McCurdy, Robert J.
Olson, Harry F., and Preston.
Serrell, Robert.

Rambo, Sheldon L., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency control system. 2,640,155, May 26.

Ramer, Robert C., Ybe, assignor to Wm. Christensen Co., Inc., York, Pa. Dock loading ramp unit. 2,639,450, May 26.

Randall, A. L., Company, assignee: *See*— Tredup, Fred W.

Randall Graphite Producta Corporation, assignee: *See*— Whiteley, Kenneth E.

Randazzo, Norman J., Brooklyn, N. Y. Film reel device. 2,639,915, May 26.

Rauglas, Gerard, Minneola, Fla. Sculling apparatus. 2,639,684, May 26.

Rauland Corporation, The, assignee: *See*— Buttino, Albert L., and Patterson.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Valve structure. 2,639,727, May 26.

Raymond Concrete Pile Company, assignee: *See*— Smith, Edward A.

Raytheon Manufacturing Company, assignee: *See*— Caloal, Carlo L.

Reaction Motors, Inc., assignee: *See*— Pearlman, Bernard.

Recht, Sidney, Bronx, N. Y. Combination package. 2,639,806, May 26.

Reese, Ray H., assignor to Fillmore Improvement Company, Fillmore, Calif. Oil well pump cleaner. 2,639,674, May 26.

Reeves, Donald H., Beulah, Mich. Partial product machine. 2,639,860, May 26.

Reich, Gustave T., Philadelphia, Pa. Apparatus and method for mixing food products. 2,639,898, May 26.

Reingruber, Frank, Yonkers, and J. Reingruber, New York, N. Y. Thermostat. 2,640,130, May 26.

Reingruber, Joseph: *See*— Reingruber, Frank and J.

Reitzel, James G., Fort Valley, Ga. Emergency exit window. 2,639,790, May 26.

Republic Steel Corporation, assignee: *See*— Stouffer, John W.

Research Corporation, assignee: *See*— Foote, Perry A., Lauter, and Baxter.

Retz, William R.: *See*— Barry, John J., and Retz.

Reyklin, Jim, New Westminster, British Columbia, Canada. Margin stop assembly. 2,639,797, May 26.

Reynolds Decelerator Company, assignee: *See*— Reynolds, Lee T.

Reynolds, Junius B.: *See*— Wilson, William R., and Reynolds.

Reynolds, Lee T., West Los Angeles, Calif., assignor to Reynolds Decelerator Company. Crash decelerator. 2,639,913, May 26.

Reynolds, Ralph E., Redelm, S. Dak. Knife for carving leather and the like. 2,639,505, May 26.

Reynolds, Schuyler, and U. F. Grant, Columbus, Ohio. Mechanical puzzle. 2,639,923, May 26.

Rhoads, Leonard H., assignor to Lloyd W. Feller, St. Elmo, Ill. Paraffin removal system for wells. 2,639,774, May 26.

Rice, John, assignee: *See*— McNamee, Paul D., Fay, and Derry.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Highland Park, Mich. Side delivery rake. 2,639,574, May 26.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Side delivery rake. 2,639,575, May 26.

Richmond, Walter, assignor to Accurate Parts Manufacturing Company, Cleveland, Ohio. Spring and weight testing device. 2,639,613, May 26.

Rickettson, Margaret, Clementon, N. J. Handle member. 2,639,521, May 26.

Ricord, Willard C., Sr., Los Angeles, Calif. Means for optically aligning motion-picture projectors. 2,639,513, May 26.

Riley, Henry M., Manhasset, and A. Huether, Baldwin, N. Y. Automatic three-dimensional display device. 2,639,525, May 26.

Riley Stoker Corporation, assignee: *See*— Rogers, Wayne C.

Rines, Robert H., Brookline, Mass. System for measuring the thickness of opaque objects. 2,640,190, May 26.

Rinker, Wilhelm, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Device for measuring workpieces such as screw threads and the like. 2,639,509, May 26.

Risvold, Rachel M.: *See*— Risvold, Sherman M. and R. M.

Risvold, Sherman M. and R. M., Huxley, Iowa. Bicycle rack. 2,639,813, May 26.

Rivet, Joseph C., Montreal, Quebec, Canada. Multiple time switch. 2,640,117, May 26.

Roan, Floyd D., assignor of one-half to T. A. Rogers, Lubbock, Tex., and one-half to The Lubbock Machine Company, Inc. Portable cotton cleaner. 2,639,469, May 26.

Robbins, Clyde F., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Sealing device. 2,639,928, May 26.

Robishaw, Alces P., assignor to C. N. Housh, Houston, Tex. 2,639,630, May 26.

Robson, Homer L., Lewiston, N. Y., assignor to Mathieson Chemical Corporation. Intercrystallized lithium hypochlorite-sodium sulfate composition. 2,640,028, May 26.

Rogers, Thelmer A., assignee: *See*— Roan, Floyd D.

Rogers, Wayne C., assignor to Riley Stoker Corporation, Worcester, Mass. Hammer and wear-plate structure for attrition pulverizers. 2,639,863, May 26.

Rohm & Haas Company, assignee: *See*— De Benneville, Peter L., Leake, and Bock.

Ronay, Bela, Annapolis, Md. Electrode for underwater cutting. 2,640,136, May 26.

Ronning, Henry O.: *See*— Sandberg, Nels H., and Ronning.

Rookatool, Lester D., Glenrock, Wyo. Bearing insert removing and applying tool. 2,639,498, May 26.

Roper, Geo. D., Corporation, assignee: *See*— Albright, John R.
Hollman, Peter I.

Rose, Harold J.: *See*— Mason, Ralph B., and Rose.

Rose, Howard E., Peninsula, E. R. Motch, Jr., and D. S. Raus, assignors to The Motch & Merryweather Machinery Co., Cleveland, Ohio. Transfer machine. 2,639,491, May 26.

Rose, Howard E., Peninsula, and M. B. Sampson, Lakewood, assignors to The Motch & Merryweather Machinery Company, Cleveland, Ohio. Transfer machine. 2,639,493, May 26.

Rosenberg, Philip, New York, assignor to Universal Steel Equipment Corporation, Long Island City, N. Y. Extensible joint structure. 2,639,789, May 26.

Ross, Alvin H. A., R. H. Farmer, and A. G. W. Lamont, Port Hope, Ontario, Canada. Separating uranium from its ores. 2,639,974, May 26.

Rothrock, George M., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of acrylonitrile-vinylpyridine polymers. 2,640,049, May 26.

Rotomatic, Incorporated, assignee: *See*— Dull, Marshall L.

Rouse, James S., Greenville, N. C. Device for cleaning the tubes of automobile radiators and the like. 2,639,453, May 26.

Rowe, Raymond N., Plainville, and R. G. Page, New Britain, Conn., assignors, by mesne assignments, to General Electric Company. Electric circuit breaker. 2,640,127, May 26.

Rowlett, Allen H., Washington, D. C. Car, floor, and wall washer. 2,639,945, May 26.

Rudy, Hermann, Heidelberg, assignor to J. A. Benckiser, G. m. b. H., Chemische Fabrik, Ludwigshafen (Rhine), Germany. Delining hides with citric acid fermentation liquor. 2,639,967, May 26.

Ruhrchemie Aktiengesellschaft, assignee: *See*— Tramm, Heinrich, and Schaub.

Russell, Leonard V., executor: *See*— Wilton, Thomas O.

Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Treating and harvesting of forage crops and the like. 2,639,553, May 26.

Rust, Carl F.: *See*— Clewell, Dayton H., and Rust.

Ruth, Howard M.: *See*— Thompson, Oscar T., and Ruth.

Ryan, Joseph D., and P. T. Mattimoe, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for producing glare screens. 2,639,687, May 26.

Safeguard Corporation, assignee: *See*— Whitaker, John.

Safeway Stores, Incorporated, assignee: *See*— Sneed, Robert C., and Jordan.

Saffores, Raoul: *See*— Muller, Frederic A., and Saffores.

Salvin, Victor S.: *See*— Seymour, George W., and Salvin.

Salvin, Victor S., Irvington, and E. F. Landau, Newark, N. J., assignors to Celanese Corporation of America, New York, N. Y. Preparing hydroxyalkylthio anthraquinones. 2,640,059, May 26.

Salvin, Victor S., Irvington, and E. F. Landau, Morristown, N. J., assignors to Celanese Corporation of America, New York, N. Y. β-hydroxyethyl-thio-anthraquinones. 2,640,060, May 26.

Sampson, Merritt B.: *See*— Rose, Howard E., and Sampson.

Samsky, Abraham and E. A., Detroit, Mich. Shoulder support for telephone hand sets. 2,640,111, May 26.

Samsky, Esther A.: *See*— Samsky, Abraham and E. A.

Sandberg, Nels H., and H. O. Ronning, Minneapolis, assignors to Waldorf Paper Products Company, St. Paul, Minn. Sheet tearing device. 2,639,772, May 26.

Sanders, Charles E., Needham, and J. C. MacKinnon, Wellesley, Mass., assignors to The B. F. Goodrich Company, New York, N. Y. Safety belt. 2,639,852, May 26.

Sando, Joseph B., Syracuse, and W. F. Gayring, Minoa, assignors to The Prosperity Company, Inc., Syracuse, N. Y. Unloading extractor. 2,639,811, May 26.

Sanford, Charles L., Meadville, Pa. Preformed tile and beam floor construction. 2,639,607, May 26.

Sardeson, Robert, and G. M. Dye, assignors to Pako Corporation, Minneapolis, Minn. Apparatus for drying photographic prints. 2,639,517, May 26.

Saunders, Noel J., Toronto, Ontario, Canada. Spinning top. 2,639,921, May 26.

Savitz, Christian W., South Euclid, assignor to Air-Maze Corporation, Cleveland, Ohio. Electrostatic filter. 2,639,781, May 26.

Sax, Henry V., and H. V. Dressler, Martinez, assignors to Shell Development Company, San Francisco, Calif. Pneumatic lifting and rotating machine. 2,639,822, May 26.

Schaefer, Frederic C., and E. K. Drechsel, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing an isocyanate. 2,640,068, May 26.

Schaefer, Henry G., Yonkers, N. Y. Simplified space heating radiator mounted on pipe. 2,639,900, May 26.

Schafer, Frank, assignor to The Bell Machine Company, Oshkosh, Wis. Machine for cutting match splints. 2,639,740, May 26.

Schaub, Franz: *See*— Tramm, Heinrich, and Schaub.

Schauwecker, Karl F., Franklin Park, Ill., assignor to United States Steel Corporation. Bearing and steel therefor. 2,639,985, May 26.

Schehr, George A., Cincinnati, Ohio. Metallic resilient wheel. 2,639,752, May 26.

Schenzinger, John M., and W. Baicher, Altadena, Calif. Combination sofa and table. 2,639,761, May 26.

Schlumberger Well Surveying Corporation, assignee: *See*— Krasnow, Shelley, and Test.
Legraud, Jean C.

Schmidt, Francis M., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Organ stop control. 2,639,639, May 26.

Schmit, Robert R.: *See*— Shannon, John K., and Schmit.

Schonitzer, Rudolph I., Shaker Heights, Ohio. Door check and holding device. 2,639,460, May 26.

Schorn, Carl F., Detroit, Mich., assignor to G. M. and E. Holley. Emergency fuel supply system. 2,639,584, May 26.

Schramm, Andrew G., St. Louis, Mo. Means for defrosting refrigerators. 2,639,590, May 26.

Schreiber, Hugh, assignee: *See*— McNamee, Paul D., Fay, and Derry.

Schreyer, Ralph C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Synthesis of diamines. 2,640,082, May 26.

Schultz, Howard L., Wellesley, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Automatic frequency control apparatus. 2,640,156, May 26.

Schwarz, Benno, Norwich, England. Speed and voltage control of stator fed alternating current commutator motors and frequency converters. 2,640,178, May 26.

Schwarz, Ernst, assignor to Hilger & Watts Limited, London, England. Vacuum seal. 2,639,833, May 26.

Schwarzmann, Gustav T., Washington, D. C. Rotary windshield wiper. 2,639,455, May 26.

Schweizerische Lokomotiv- und Maschinenfabrik, assignee: *See*— Möller, Theodor.

Scott, Frederick S., West Los Angeles, assignor to Union Oil Company of California, Los Angeles, Calif. Flux oil and revivifying asphalt roads therewith. 2,639,651, May 26.

Scott & Williams, Incorporated, assignee: *See*— Parham, Grover C.

Scovill Manufacturing Company, assignee: *See*— Rriechle, Joseph.

Seewald, Monte, Long Beach, assignor to Decorative Novelty Co., Inc., Brooklyn, N. Y. Branched article and making same. 2,639,532, May 26.

Segil, L. J., Company, assignee: *See*— Smith, Gean.

Serrell, Robert, Princeton, N. J., assignor to Radio Corporation of America. Transitory memory circuits. 2,639,859, May 26.

Service Wood Heel Co., The, assignee: *See*— Constantine, George R., and Ball.

Seyb, Leslie F., Painesville, and C. A. Neros, Willoughby, assignors to Diamond Alkali Company, Cleveland, Ohio. Flameproofing method and product. 2,640,000, May 26.

Seymour, George W., Maplewod, and V. S. Salvin, Irvington, N. J., assignors to Celanese Corporation of America, New York, N. Y. Preparation of 1-amino-2-alkyl-mercapto-4-hydroxy-anthraquinones. 2,640,061, May 26.

Seymour, George W., Cumberland, Md., and V. S. Salvin, Summit, N. J., assignors to Celanese Corporation of America. 1-amino-2-hydroxyalkyl mercapto-4-hydroxy anthraquinone dyestuffs. 2,640,062, May 26.

Shands, Frederick L., Newburgh, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Apparatus for determining boiling points. 2,639,609, May 26.

Shannon, John K., and R. R. Schmit, Kenosha, Wis. Battery separator dispensing mechanism. 2,639,824, May 26.

Shaw, Albert E., and R. J. Moon, Chicago, Ill., assignors, by mesne assignments, to L. Bernat, doing business as Physics Research Associates. Device for converting motion into electrical energy. 2,640,170, May 26.

Shell Development Company, assignee: *See*—
Dahmen, Edouard A. M. F.
Goldsbrough, Leslie N.
Parry, Harvey L., and Wiles.
Sax, Henry V., and Dressler.
Wijga, Pieter W. O.

Shellmar Products Corporation, assignee: *See*—
Fahey, Richard J.

Sherwin-Williams Company, The, assignee: *See*—
Farkas, Martin D., and Deich.

Shirtcraft Co., Inc., The, assignee: *See*—
Kaplan, Morris L.

Shockey, Glen D., Sante Fe County, N. Mex. Spinning top with bead chain swivel. 2,639,546, May 26.

Short, Brooks H., Anderson, and J. W. Dyer, Pendleton, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine starting apparatus with generator separately excited during starting. 2,640,163, May 26.

Short, Brooks H., and A. G. Lautzenhiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Intensifier. 2,640,174, May 26.

Siemens-Reiniger-Werke, assignee: *See*—
Gerneth, Josef.

Signal Oil and Gas Company, assignee: *See*—
Heath, Ronald W.

Silby, Martin V., New York, N. Y. Box staying machine. 2,639,649, May 26.

Simison, Allen L., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Forming glass fiber mats. 2,639,759, May 26.

Simon, Donald L., Crowley, La., assignor by decree of distribution to R. R. Simon. Drier and method. 2,639,515, May 26.

Simon, Henry, (Holdings) Limited, assignee: *See*—
Watts, George.

Simon, Paul R., assignee: *See*—
Gaylord, John A.

Simon, Ruth R., assignee: *See*—
Simon, Donald L.

Sinclair, George W.: *See*—
Miller, Raymond S., and Sinclair.

Singer Manufacturing Coompany, The, assignee: *See*—
Smith, Floyd T.

Skellett, Albert M.: *See*—
Eapenschied, Lloyd, and Skellett.

Skinner, Bronson C., Dunedin, Fla., assignor to Clinton Foods Inc., New York, N. Y. Steam heating circulation system. 2,639,861, May 26.

Skinner, Ralph L., Detroit, Mich. Oil control means for poppet valve internal-combustion engines. 2,639,703, May 26.

Sloman, Arthur R., Burnie, Tasmania, assignor to Associated Pulp and Paper Mills Limited, Melbourne, Victoria, Australia. Two-stage pulping process. 2,639,987, May 26.

Smereck, Arthur, assignor to Product Development Engineering Research and Promotion Corporation, Detroit, Mich. Cigarette holder for automobile ash trays. 2,639,719, May 26.

Smith, A. O., Corporation, assignee: *See*—.
Kuebler, Walter A.

Smith, Donald B.: *See*—
Northrop, John K., Denzin, and Smith.

Smith, Edward A., Chatham, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Method and apparatus for driving pile shells. 2,639,589, May 26.

Smith, Floyd T., Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Handle assembly for vacuum cleaners. 2,639,456, May 26.

Smith, Fred E., Findlay, Ohio. Pipe and casing tongs. 2,639,894, May 26.

Smith, Gean, assignor to L. J. Segil Company, Chicago, Ill. Lighting fixture for elongated tubular lamps. 2,640,146, May 26.

Smith, Grover C., and E. S. Fuller, Houston, Tex. Receptacle for irrigating intestinal tract of colostomy patients. 2,639,711, May 26.

Smith, John H., Wauwatosa, Wis., assignor to General Cable Corporation, New York, N. Y. Wire package. 2,639,873, May 26.

Smith, Louis J., Los Angeles, Calif. Flow regulator. 2,639,883, May 26.

Sneed, Robert C., Piedmont, and C. S. Jordan, Maywood, assignors to Safeway Stores, Incorporated, Oakland, Calif. Egg handling machine. 2,639,801, May 26.

Snyder, George: *See*—
Korsberg, John F., Gustafson, and Snyder.

Snyder, Harold V., Iowa Falls, Iowa. Telescopic steering column. 2,639,626, May 26.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Clewell, Dayton H., and Buat.

Sokolik, Edward, New Brighton, Minn. Regulating pour-out for bottles. 2,639,839, May 26.

Solloway, Harry, and T. L. Bonkowski, Los Angeles, Calif. Hair curler. 2,639,720, May 26.

Sonnenberg, Rudolph, assignor to Mid-West Bottle Cap Co., Belvidere, Ill. Making bottle closures. 2,639,645, May 26.

Southern Detector Corporation, assignee: *See*—
Goodman, Wolf.

Sowter, Anthony B., Wembley, assignor to The General Electric Company, Limited, London, England. Cold welding of metal. 2,639,633, May 26.

Sowter, Anthony B., Wembley, assignor to The General Electric Company, Limited, London, England. Apparatus for cold welding of metal. 2,639,634, May 26.

Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Power plant for rig drive. 2,639,630, May 26.

Spear, Winifred, Flemington, N. J. Cover garment made from gathered cloth or film. 2,639,431, May 26.

Speier, John L., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Grignard reagents of organoalkoxysilanes. 2,640,067, May 26.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Bromoalkylsilanes and their preparation. 2,640,064, May 26.

Spence, Paulsen, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y. Pilot operated regulating valve. 2,639,556, May 26.

Spence Engineering Company, Inc., assignee: *See*—
Spence, Paulsen.

Spring Load Pipe Cutter Mfg. Corp., assignee: *See*—
Harding, Elmer C.

Springs Cotton Mills, The, assignee: *See*—
Brock, William P., and Neal.

Spurlino, Pascal, A. G. Kibler, R. J. Moser, and E. H. Wolf, assignors to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,639,857, May 26.

Stalker, Edward A., Bay City, Mich. Helicopter wings and other aircraft structures with boundary layer control. 2,639,874, May 26.

Stamatoff, Gelu S., Newark, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Heat stabilization of polyamides. 2,640,044, May 26.

Standard Oil Development Company, assignee: *See*—
Broyles, Alvin C.
Cier, Harry E.
Crumrine, Kenneth C.
Flaehl, Fred B., and Hill.
Fritz, Robert J.
Graff, Alvin R.
Hill, Max W., and Jones.
Huber, Theodore A.
Jones, Minor C. K.
Mason, Ralph B., and Rose.
Nelson, Karl J.

Standard Packaging Corporation, assignee: *See*—
Zimmermann, Willy E.

Standard-Thompson Corporation, assignee: *See*—
Golob, John E.

Stanley, Paul H., Glenside, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft rotor with tilting hub and damper control of blade swinging. 2,639,776, May 26.

Stanley, William E., and F. C. Brown, Spondon, near Derby, England, assignors to British Celanese Limited. Producing a textile fabric. 2,639,488, May 26.

Stanton, William R., Penn, Wolverhampton, assignor to Textuff Limited, London, England. Coating cotton fabrics. 2,639,966, May 26.

Starbird, George A., Agoura, assignor to Meletron Corporation, Los Angeles, Calif. Temperature responsive switch. 2,640,129, May 26.

Stareck, Jesse E., Birmingham, Mich., assignor to United Chromium, Incorporated, New York, N. Y. Composition, bath, and process for chromium plating. 2,640,022, May 26.

Starnes, Luther P.: *See*—
Harris, James C. P., and Starnes.

Steele, Harry C., Ashland, Ky. Contrarotating gas turbine having a power turbine and a plurality of compressor-turbines in series. 2,639,583, May 26.

Steenberg, Axel C., Copenhagen, Denmark. Cleaning chocolate molds. 2,640,003, May 26.

Steiner, Abram A.: *See*—
Wubben, Gerrit J. H. E., and Steiner.

Stephani, Leo: *See*—
Tonagel, Hugh A., and Stephani.

Stephenson, Alpha W., assignor to The E. O. Bulman Manufacturing Company, Inc., Grand Rapids, Mich. Humidor cigar case. 2,639,958, May 26.

Stern, Herbert J., New Rochelle, assignor to I. Stern & Co., Inc., New York, N. Y. Display package kit. 2,639,805, May 26.

Stern, I., & Co., Inc., assignee: *See*—
Stern, Herbert J.

Sterrett, Charles C.: *See*—
Woods, Charles A., Jr., and Sterrett.

Stewart, Herman V., Glendale, Calif. Two-cycle internal-combustion engine. 2,639,696, May 26.

Stiebel, Theodor, Holzminden, Germany. Portable hot beverage preparation apparatus. 2,640,140, May 26.

Stirzel, Jacob W., Philadelphia, Pa. Gear actuated predetermined torque release wrench. 2,639,637, May 26.

Stockdale, William A., Zanesville, Ohio. Coffee dispenser. 2,639,837, May 26.

Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Tanning agents and preparation. 2,639,968, May 26.

Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Alkali-lignin tanning agents and preparation. 2,640,052, May 26.

Stossel, Frank, Winnipeg, Manitoba, Canada. Decoy. 2,639,534, May 26.

Stouffer, John W., Youngstown, assignor to Republic Steel Corporation, Cleveland, Ohio. Coupling screw-on machine. 2,639,497, May 26.

Straw, Harry A., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of amides. 2,640,078, May 26.

Streun, John A., assignor to Hardwicke-Etter Company, Sherman, Tex. Cotton cleaner. 2,639,468, May 26.

Strief, Eugene E., Denver, Colo., assignor to General Electric Company. Hydraulic servo mechanism. 2,639,721, May 26.

Strock, Donn V., assignor to The Aetna-Standard Engineering Company, Youngstown, Ohio. Leveling device for tin plate feeder platforms. 2,639,784, May 26.

Strybel, Edward J., assignor to Campbell and Company, Cincinnati, Ohio. Support for bed framework. 2,639,443, May 26.

Stuart, James L., Sewickley, Pa. Valveless pulse jet engine. 2,639,580, May 26.

Sturm, Robert H., assignor to Cosmocord Plastics Limited, Enfield, England. Phenol-aldehyde-ketone resins. 2,640,043, May 26.

Suchan, Charles L., Fremont, Nebr. Hinged light bulb protector. 2,640,147, May 26.

Sulzer Freres, Societe Anonyme, assignee: *See*—
Moessinger, Albert.

Sunderbauf, Frederick A., Summit, and J. C. O'Hear, Union, N. J. Roll apparatus for localized embossing. 2,639,660, May 26.

Super Mold Corporation of California, assignee: *See*—
Glynn, Edwin A.

Surface Combustion Corporation, assignee: *See*—
Cone, Carroll, and Dailey.

Swainey, Homer L., Cleveland, Ohio, assignor to Norton Company, Worcester, Mass. Grinding wheel feeding mechanism. 2,639,563, May 26.

Swinamer, Robert A., Armdale, Nova Scotia, assignor of one-half to A. H. Phillips, Halifax County, Nova Scotia, Canada. Wheel lifter. 2,639,934, May 26.

Sylvania Electric Products Inc., assignee: *See*—
Jacobs, Harold, and Hees.
Jacobs, Harold, Hees, and Wolk.
Palmateer, Russell E.

Tainton Company, The, assignee: *See*—
Clayton, Erith T.

Tate, Malcolm C., Stamford, Conn., assignor to Baldwin-Lima-Hamilton Corporation. Compensated pressure gauge. 2,639,616, May 26.

Taylor, Barnhardt A., Columbia, S. C., assignor to The Great Manufacturing Company, New Haven, Conn. Sewing-machine attachment. 2,639,682, May 26.

Taylor, Marvin, Brooklyn, N. Y. Mechanism for power transmission. 2,639,631, May 26.

Taylor, Reginald, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England. Wiper-switching selector. 2,640,108, May 26.

Taylor, William G., and C. W. Campbell, San Diego, Calif. Self-propelled woodworking and finishing machine. 2,639,741, May 26.

Teague, Walter D., Jr., Alpine, assignor to Bendix Aviation Corporation, Teterboro, N. J. Pump unloading valve. 2,639,722, May 26.

Teale, Robert R., Snyder, assignor to National Gypsum Company, Buffalo, N. Y. Pin mixer. 2,639,901, May 26.

Tennison, James D., Jr., Memphis, Tenn. Coupling for joining lengths of trough gutters. 2,639,680, May 26.

Test, Meyer J.: *See*—
Krasnow, Shelley, and Test.

Textile Engineering Corporation, assignee: *See*—
Cotrbett, Louis M., and Butler.

Textuff Limited, assignee: *See*—
Stanton, William R.

Thom, Melvin A., Rochester, N. Y. Electrical resistor and making same. 2,640,132, May 26.

Thomas, Seth H., Rochester, Ind. Rural mailbox signal. 2,639,856, May 26.

Thompson, Oscar T., deceased, Neenah, Wis., by V. Thompson, executrix, Neenah, and H. M. Ruth, Appleton, Wis., assignors to International Celincotton Products Company, Chicago, Ill. Apparatus for shaping tampon applicator tube ends. 2,639,646, May 26.

Thompson, Parke H., Kirkwood, assignor, by mesne assignments, to M. L. J. Lambert, doing business as Crystal-Flo Products Company, St. Louis, Mo. Sheathed fuse. 2,639,669, May 26.

Thompson Products, Inc., assignee: *See*—
Townhill, Arthur, and Holcombe.

Thompson, Veneta, executrix: *See*—
Thompson, Oscar T., and Ruth.

Thornton, Isaiah V., Ogden, Utah. Curtain rod and bracket therefor. 2,639,930, May 26.

Thorsbakken, Arthur, Alden, Iowa. Fence stretcher. 2,639,889, May 26.

Thurston, Benjamin L., Pawtucket, R. I., assignor to Frost Box Co., Inc. Box. 2,639,854, May 26.

Thurston, George E., Chicago, Ill. Guide attachment for hair clippers. 2,639,503, May 26.

Thurston, Jack T., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Reaction products of an aldehyde and an aldehyde-reactable composition comprising the condensation product of a polyhalogenated compound and a triazine derivative. 2,640,046, May 26.

Thurston, Jack T., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Reaction products of a polyhalogenated compound and a triazine derivative and preparing the same. 2,640,047, May 26.

Tillotson, Edwin W., Pittsburgh, assignor to Garco Products, Inc., Allegheny County, Pa. Stabilized pulverulent compositions and manufacture thereof. 2,639,992, May 26.

Titus, Eaton Y.: *See*—
Wankat, Charles, and Titus.

Todd, C., trustee, assignee: *See*—
Koch, Frederick.

Todd, Horace: *See*—
Burn, Lewis, Todd, and Oliver.

Tokheim Oil Tank and Pump Company, assignee: *See*—
Higginbotham, Edwin S.

Tomlinson, Fay M., Lakewood, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool feed. 2,639,736, May 26.

Tomonari, Tsukumo, Osaka, Japan, assignor of one-fourth to Omni Products Corporation, New York, N. Y. Treatment of polyvinyl alcohol fibers by dielectric heating. 2,639,970, May 26.

Tonagel, Hugh A., Washington Township, and L. Stephani, Union Township, La Porte County, Ind., said Tonagel assignor to said Stephani. Stable cleaning device. 2,639,803, May 26.

Torbert, Everyl M., Freeland, assignor to S. Greenberg and M. Kolker, a copartnership doing business as Buckle-Craft Co., Baltimore, Md. Apparatus for making buckles. 2,639,489, May 26.

Touraton, Emile, and R. Zwobada, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Ultrahigh-frequency electron tube. 2,640,112, May 26.

Touraton, Emile, Paris, and C. Dumousseau, Pierrefitte, France, assignors to International Standard Electric Corporation, New York, N. Y. Hyperfrequency vacuum tube. 2,640,172, May 26.

Townhill, Arthur, East Cleveland, Ohio, and W. P. Holcombe, Ann Arbor, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Shrouded wheel. 2,639,886, May 26.

Tramm, Heinrich, Mulheim-Speldorf, and F. Schaub, Duisburg-Hamborn, assignors to Rubrchemie Aktiengesellschaft, Oberhausen-Holten, Germany. Liquid distributing tray. 2,639,947, May 26.

Travis, Paul H., Leonard, Mich. Combined check and opener for closures. 2,639,458, May 26.

Travis, Paul N., and G. A. Gareke, Spokane, Wash. Cable supported propelling device. 2,639,676, May 26.

Tredup, Fred W., assignor to A. L. Randall Company, Chicago, Ill. Plant and flower holder. 2,639,552, May 26.

Trofimov, Lev A., Willoughby, Ohio. Strip material winding apparatus. 2,639,868, May 26.

Trubenising Process Corporation, assignee: *See*—
Liebowitz, Benjamin.

Tryon, Henry C., assignor to D. Napier & Son Limited, London, England. Bearing. 2,639,955, May 26.

Tubbs, Lester G.: *See*—
Cuttino, William H., and Tubbs.

Tugen, Robert G.: *See*—
Milner, Arthur E. P., and Tugen.

Tuiumello, Pasqual C., Los Angeles, and D. Franceschi, Alhambra, Calif. Valve selector and actuator for fluid flow manifolds. 2,639,729, May 26.

Turner Tanning Machinery Company, The, assignee: *See*—
Whitney, Robert F.

Udvardy, Zolton, New York, N. Y. Garment display device. 2,639,844, May 26.

Union Carbide and Carbon Corporation, assignee: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O.
Polly, Orville L., and Berg.
Scott, Frederick S.

United Aircraft Corporation, assignee: *See*—
Ledwith, Walter A.
Willgoos, Andrew V. D.

United Chromium, Incorporated, assignee: *See*—
Passal, Frank.
Stareck, Jesse E.

United Shoe Machinery Corporation, assignee: *See*—
Baker, Corwin W.
Burke, George F. C.
Eich, Frank A., and Miller.
Imhof, Herman A.

United States Gypsum Company, assignee: *See*—
Conover, James H.
Nies, Brainard W., and Duffy.

United States Rubber Company, assignee: *See*—
Borton, Robert O.
Brass, Philip D., and Mann.
Glenn, Harry D., and Mankowich.
Howland, Louis H., and Chambers.

United States Steel Corporation, assignee: *See*—
Schauwecker, Karl F.

United States Stonewear Company, The, assignee: *See*—
Leva, Max.

Universal Engine Heater Company, assignee: *See*—
Merritt, Jack A.

Universal Milking Machine Division, assignee: *See*—
Wons, Herman A.

Universal Oil Products Company, assignee: *See*—
Wankat, Charles, and Titus.

Universal Steel Equipment Corporation, assignee: *See*—
Roseuberg, Philip.

Universal Window Co., assignee: *See*—
Wiley, Esmond F.

Universal Wire Spring Company, The, assignee: *See*—
Neely, William H.

Vakassian, Harry S., New York, N. Y. Sofa and double bed combination. 2,639,441, May 26.

Van Saun, Willard G., assignor to Janesville Cotton Mills, Janesville, Wis. Strip insulation and manufacture. 2,640,004, May 26.

Vaughan, Victor G., and R. G. Mawney, Attleboro, Mass., and J. A. Bagnall, Dearborn, Mich., assignors to Metals & Controls Corporation, Attleboro, Mass. Combined starting and protective switch. 2,640,124, May 26.

Veldstra, Haaye, Amsterdam, assignor to N. V. Amsterdamsche Chininefabriek, Amsterdam, North-Holland, Netherlands. Growth promoting preparations for plants. 2,639,983, May 26.

Versen, Kurt, Tenafly, N. J. Electrical fixture. 2,639,881, May 26.

Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Top shoe brake operator. 2,639,785, May 26.

Vickers Incorporated, assignee: *See*—
Grillo, Joseph.
Vickers, Harry F.

Vida, John C., Detroit, Mich. Display device. 2,639,518, May 26.

Vogel, Alvin R., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Aircraft control element force producer. 2,639,875, May 26.

Volgenau, Robert H., Buffalo, N. Y. Blood extracting device. 2,639,709, May 26.

Volkoff, George M.: *See*—
Zosulin, Igor V., Okulitch, Volkoff, Okulitch, and Ellett.

Von Sallágyi, Franz, Bruck a. d. Leitha, Austria, assignor to G. Klammer, as trustee, Olmsted Falls, Ohio. Adjustable resilient shock absorbing support for vehicle saddles. 2,639,760, May 26.

Vore, Milton P., Catonsville, and R. E. Kirby, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for dielectric heating. 2,640,141, May 26.

Voslamber, Berend J., Hoogkerk, assignor to N. V. Betonfabriek De Meteoor, De Steeg, Netherlands. Producing a sharply bent corner in a plate. 2,639,495, May 26.

Wagner, Bernard, Crafton, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Self-priming centrifugal pump unit for liquid dispensing apparatus. 2,639,671, May 26.

Wagner, Clyde L., Tulsa, Okla. Fish lure. 2,639,537, May 26.

Wagner, Willard F., Detroit, assignor of one-half to C. W. Glenn, Centerline, Mich. Lighter. 2,639,597, May 26.

Waldorf Paper Products Company, assignee: *See*—
Myers, John H.
Sandberg, Nels H., and Ronning.

Wallace, John F., executor: *See*—
Miller, Harry E.

Wallman, Henry, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Rapid searching thermal automatic frequency control. 2,640,157, May 26.

Wankat, Charles, Brookfield, and E. Y. Titus, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of cracked hydrocarbon distillates. 2,640,012, May 26.

Ward, Charles H., Minneapolis, Minn. Internal-combustion engine. 2,639,698, May 26.

Wardius, Walter A., Milwaukee, Wis. Outboard motor lock. 2,639,604, May 26.

Warner, Douglas K., Sarasota, Fla. Air-cooled internal-combustion engine with exhaust jet. 2,639,697, May 26.

Warner-Hudnut, Inc., assignee: *See*—
King, John A., and McMillan.

Warner & Swasey Company, The, assignee: *See*—
Belshaw, Walter.
Tomlinson, Fay M.

Wartman, George H., Ashland, Wis. Embalming instrument. 2,639,484, May 26.

Watt, John R., Austin, Tex. Freezing machine. 2,639,594, May 26.

Watts, George, assignor to Henry Simon (Holdings) Limited, Cheadle Heath, Stockport, England. Pneumatic elevator for flour mill stocks. 2,639,862, May 26.

Webb, Ernest C., Bay Village, assignor to Iron Fireman Manufacturing Company, Cleveland, Ohio. Coal conditioning and conveying means. 2,639,681, May 26.

Webb, Irving D., Holly Oak, and G. T. Borcherdt, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Reactions of heterocyclic compounds with unsaturated carbonyl compounds. 2,640,057, May 26.

Webber, Jack C., Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Packing means for wells. 2,639,773, May 26.

Wehr, William G., North Madison, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Shockproof conductor for electrified material handling apparatus. 2,640,114, May 26.

Weimont, Joseph, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y. Machine for attaching and wiping labels on conduits or other cylindrical articles. 2,639,830, May 26.

Weisler, Leonard, assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Hydroxy-alkyl-substituted tocopherols. 2,640,058, May 26.

Welden, David P., Iowa Falls, Iowa. Articulated boom. 2,639,826, May 26.

Wellford, Walker L., Jr., Memphis, Tenn. Closed system dry cleaning apparatus utilizing volatile solvent. 2,639,599, May 26.

Wells, Ira E., Chicago, Ill. Folding clothes pole. 2,639,818, May 26.

Werner, Edwin G., Park Ridge, N. J. Coaxial cable connector. 2,640,118, May 26.

Werner, Glenn C., Warren, Pa. Thrust coupling. 2,639,595, May 26.

Werner, Willy W., Detroit, Mich. Door closer. 2,639,459, May 26.

Westcamp, Leslie L., Fair Oaks, Calif. Folding chair. 2,639,762, May 26.

Wester, Karl G., assignor to A B Svenska Fläktfabriken, Stockholm, Sweden. Device for guiding weblike material. 2,639,483, May 26.

Western Electric Company, Incorporated, assignee: *See*—
Holcomb, Arthur L.
Lewis, Clay E., and Longfellow.

Westinghouse Electric Corporation, assignee: *See*—
Collins, Zane L., and Euler.
Cuttino, William H., and Tubbs.
Dill, Everett C., and Ballard.
Fahnoe, Harold H., and Paxton.
Green, James H., and Makenny.
Hartwig, Edward C.
Hughes, Arthur V.
Kinn, Theodore P.
Lewin, Gerhard, and Goldman.
McDonald, Jack.
Packer, Lewis C., Cross, and Monchamp.
Parsons, John R.
Pouchot, Walter D.
Rambo, Sheldon I.
Vore, Milton P., and Kirby.
Wilson, William R., and Reynolds.
Woods, Charles A., Jr., and Sterrett.

Weston Electrical Instrument Corporation, assignee: *See*—
Gilbert, Roswell W.

Wheeler, Claude C., Oxford, N. C. Portable traveling scaffold. 2,639,950, May 26.

Whitaker, John, North Wales, assignor to Safeguard Corporation, Lansdale, Pa. Keyboard construction for check writers, etc. 2,639,663, May 26.

Whitehead, Lawrence A., Richmond, Ind. Hot-air register. 2,639,655, May 26.

White, James C., assignee: *See*—
White, William C.

White, John J., assignee: *See*—
Ackerman, Morris.

Whiteley, Kenneth E., assignor to Randall Graphite Products Corporation, Chicago, Ill. Self-lubricating universal bearing. 2,639,952, May 26.

Whiteman, Benton A., Glen Allen, Va. Taper gauge. 2,639,511, May 26.

White, William C., assignor of one-third to N. W. Klopfenstein and one-third to J. C. White, Bellflower, Calif. Automatic stop device for carding machines. 2,639,470, May 26.

Whiting, William A., Long Beach, assignor to American Pipe and Construction Co., Los Angeles, Calif. Reinforced concrete pipe. 2,639,731, May 26.

Whitney, Robert F., Winchester, Mass., assignor to The Turner Tanning Machinery Company, Portland, Maine. Hide and skin working machine employing rotating rolls. 2,639,603, May 26.

Whittington, Paul E., Arlington, Va. Electric filtering apparatus. 2,640,026, May 26.

Wiberg, Egon: *See*—
Nitzsche, Siegfried, Wiberg, and Hertwig.

Wieseman, Theodore R., assignor to The Louis Allis Company, Milwaukee, Wis. Starting circuit for electric motors. 2,640,177, May 26.

Wijga, Pieter W. O., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Concentration of secondary alkyl sulfate salt solutions. 2,640,069, May 26.

Wilder, Edward A., and F. E. Chapman, assignors to S. C. Johnson & Son, Inc., Racine, Wis. Mar-resistant paint composition. 2,640,038, May 26.

Wiles, Quentin T.: *See*—
Parry, Harvey L., and Wiles.

Wiley, Esmond F., Oakland, assignor to Universal Window Co., Berkeley, Calif. Control mechanism for awning type windows. 2,639,474, May 26.

Wiley, Esmond F., Oakland, assignor to Universal Window Co., Berkeley, Calif. Operating mechanism for multiple sash windows. 2,639,475, May 26.

Wilkins, Raymond A.: *See*—
Dyer, John W., and Wilkins.

Willard Storage Battery Company, assignee: *See*—
Pucher, Leo E., and Cunningham.

Willgoos, Andrew V. D., deceased, West Hartford, Conn., by Hartford National Bank and Trust Company, Hartford, Conn., executor, assignor to United Aircraft Corporation, East Hartford, Conn. Turbojet engine having tail pipe ejector to induce flow of cooling air. 2,639,579, May 26.

Williams, John C., assignor to Hawley Products Company, St. Charles, Ill. Resins capable of producing viscous aqueous solutions and the manufacture thereof. 2,640,039, May 26.

Williams, Philip H., San Jose, Calif. Automatic boiler feed. 2,639,675, May 26.

Wilson, William R., Ellicott City, Md., and J. B. Reynolds, Princeton, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Instantaneous frequency monitor. 2,640,106, May 26.

Wilson, Winfred E., Tacoma, Wash. Manufacturing composite board. 2,639,994, May 26.

Wilton, Thomas O., deceased, Worthing, England; W. L. Wilton and L. V. Russell, executors, assignors to Chemical Engineering, Wiltons Limited, Horsham, England. Distillation of tars and like liquid hydrocarbons. 2,640,013, May 26.

Wilton, Winifred L., executrix: *See*—
Wilton, Thomas O.

Wingfoot Corporation, assignee: *See*—
Brown, Gardner L., Johnson, and Knill.
Phane, Walter J.

Winston, John M., Washington, Ind. Storm window construction. 2,639,768, May 26.

Wiser, Arthur B., Los Angeles, Calif. Transmission. 2,639,629, May 26.

Wolf, Calvin N.: *See*—
Ligett, Waldo B., Closson, and Wolf.

Wolf, Eugene H.: *See*—
Spurlino, Pascal, Kibler, Moser, and Wolf.

Wolk, Bernard: *See*—
Jacobs, Harold, Hees, and Wolk.

Wons, Herman A., Albert Lea, Minn., assignor to Universal Milking Machine Division, Waukesha, Wis. Liquid weighing and dispensing vessel. 2,639,840, May 26.

Woods, Charles A., Jr., and C. C. Sterrett, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Current transformer. 2,640,102, May 26.

Wormelle, Frederick W., Jr., Falmouth, Mass. Combined can opener and handle. 2,639,502, May 26.

Wright, Fred J., Columbus, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Motorized trench roller. 2,639,652, May 26.

Wu, William I., Shanghai, China, assignor to the United States of American as represented by the Secretary of the Navy. Tuner. 2,640,150, May 26.

Wobben, Gerrit J. H. E., and A. A. Steiner, assignors to Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek, The Hague, Netherlands. Soilless culture. 2,639,549, May 26.

Wurlitzer, Rudolph, Company, The, assignee: *See*—
Schmidt, Francis M.

Young, Fred M., assignor to Young Radiator Company, Racine, Wis. Automobile radiator. 2,639,899, May 26.

Young, Herbert, assignor to National Brass Company, Grand Rapids, Mich. Push button construction. 2,639,932, May 26.

Young Radiator Company, assignee: *See*—
Young, Fred M.

Zalkowsky, Nina D., assignee: *See*—
Zalkowsky, Wladimir M.

Zalkowsky, Wladimir M., Pasadena, Calif., assignor to N. D. Zalkowsky. Gas analyzer and use. 2,639,978, May 26.

Zebarth, Ralph S., Hickman Mills, assignor to Gordon Johnson Company, Kansas City, Mo. Rigid type shackle for hanging poultry. 2,639,463, May 26.

Zeehuisen, Jacob J., Rijswijk, Netherlands. Production of textile fibers from blast fiber material by alkaline digestion. 2,639,988, May 26.

Zero Manufacturing Company, assignee: *See*—
Duncan, George R.

Zimmerman, Willy E., assignor to Standard Packaging Corporation, Chicago, Ill. Machine for dating and applying closures to bottles. 2,639,850, May 26.

Zollars, Richard U., and J. D. Lawson, Ottumwa, Iowa, and J. H. Berry, Rock Island, Ill., assignors to Deere Manufacturing Co., Dubuque, Iowa. Material-handling machine. 2,639,949, May 26.

Zons, Frederick W., Brooklyn, N. Y. Method of and apparatus for sealing ampoules. 2,639,554, May 26.

Zosulin, Igor V., G. J. Okulitch, G. M. Volkoff, V. J. Okulitch, and A. S. J. Ellett, Vancouver, British Columbia, Canada. Drive coupling of the permanent magnet type. 2,640,166, May 26.

Zurlo, Carl J., Marysville, Wash. Antipicking device. 2,639,691, May 26.

Zwobada, René: *See*—
Touraton, Emile, and Zwobada.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barbecue appliance. C. R. Larkin. Re. 23,662, May 26.
Fastening device. S. J. Andres. Re. 23,660, May 26.
Wrench extension, Socket. E. T. Able and W. Krieger. Re. 23,661, May 26.

LIST OF DESIGN INVENTIONS

Apron or similar article. J. D. Miarahl. 169,689, May 26.
Ash tray. S. McQuigley and D. Goodman. 169,694, May 26.
Bag or the like, Warming. W. A. Atkinson. 169,650, May 26.
Belt. S. Kellerman. 169,683, May 26.
Book end and receptacle, Combined. V. E. Cravey. 169,657, May 26.
Bracelet or the like. A. Katz. 169,675, May 26.
Bracelet or the like. A. Philippe. 169,690, May 26.
Brooch or the like. A. Katz. 169,678, May 26.
Brooch or the like. A. Katz. 169,681–2, May 26.
Brooch or the like, Separable. A. Katz. 169,679, May 26.
Brush or similar article. B. Horton. 169,673, May 26.
Cabinet, Dental. J. H. Levey. 169,687, May 26.
Cape. M. E. Homan. 169,670, May 26.
Chain for a bracelet or similar article, Expansible. K. C. Augenstein. 169,651, May 26.
Chain for a bracelet or the like, Link. A. Philippe. 169,691, May 26.
Clockcase or similar article. J. Gottlieb. 169,659, May 26.
Clothesrack, Foldable. G. H. Meister. 169,688, May 26.
Corner guard for luggage. W. Bialo. 169,652, May 26.
Display unit. H. Hyams. 169,674, May 26.
Door handle and lock protective glove, Automobile. J. K. Rogers. 169,697–8, May 26.
Drum unit, Magnetic. G. H. Kress and C. W. Sundberg. 169,684, May 26.
Game apparatus, Tiltable board. R. E. Hopkins. 169,672, May 26.
Handbag. W. H. Hardy. 169,669, May 26.
Handbag, Lady's. P. Brown. 169,655, May 26.
Handkerchief or the like. M. Sauer and H. Schmidt. 169,702–13, May 26.
Heater, Brooder. W. Rusnak and W. G. Stoll. 169,701, May 26.
Heel, Shoe. W. J. Walsh. 169,716, May 26.
Holder or similar article, Paper cup. H. L. Bennett. 169,654, May 26.
Housing, Measuring tape. W. F. Dart. 169,658, May 26.
Lamp. I. A. Gross. 169,660–4, May 26.
Lipstick case, Jeweled. B. Schwartz. 169,714, May 26.
Mat or similar article, Place. K. C. Hamilton. 169,666–7, May 26.
Metal sheet. J. H. Wright. 169,718, May 26.
Necklace or similar article. M. Boucher. 169,653, May 26.
Necklace or the like. A. Katz. 169,676–7, May 26.
Necklace or the like. A. Katz. 169,680, May 26.
Necklace or the like. A. Philippe. 169,692–3, May 26.
Nutcracker. H. E. Cox. 169,656, May 26.
Pot, Watering. L. A. Rowe. 169,700, May 26.
Reader, Card. G. H. Kress and C. W. Sundberg. 169,686, May 26.
Sandal. P. W. White and H. A. Webb. 169,717, May 26
Sign. F. Homme. 169,671, May 26.
Smoking aspirator. H. Roithler. 169,699, May 26.
Stocking. I. Rabinowitz. 169,695, May 26.
Stool, Mobile. E. J. Ries and G. E. Christiana. 169,696, May 26.
Storage unit, Electrostatic. G. H. Kress and C. W. Sundberg. 169,685, May 26.
Tire. W. E. Hardeman. 169,668, May 26.
Toy airplane. T. F. Stout. 169,715, May 26.
Warmer or similar article, Food. R. L. Gruen. 169,665, May 26.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absorption method for separating hydrocarbon gases. R. W. Heath. 2,640,008, May 26.
Accounting machine. P. Spurlino, A. G. Kibler, R. J. Moser, and E. H. Wolf. 2,639,857, May 26.
Acrylonitrile-vinylpyridine polymers, Preparation of. G. M. Rothrock. 2,640,049, May 26.
Actuator, Motor driven. H. M. Geyer and D. K. Ferris. 2,639,625, May 26.
Additives for use in extreme pressure gear oils. F. B. Fischl and M. W. Hill. 2,640,030, May 26.
Adjustable cam actuated hold-down clamp. W. B. Herbert. 2,639,744, May 26.
Air blower for linearly feeding a continuous strand. W. B. Kelley. 2,639,487, May 26.
Aircraft control element force producer. A. R. Vogel. 2,639,875, May 26.
Air fan heater. M. E. Lautner. 2,640,139, May 26.
Album. A. J. Bepristis. 2,639,526, May 26.
Alcohol, Manufacture of. L. N. Goldsbrough. 2,640,085, May 26.
Alkali-lignin tanning agents and preparation. W. B. Stoddard, Jr. 2,640,052, May 26.
Alkaloids by clitocybe subilludens, Production of. F. A. Foote, W. M. Lauter, and R. M. Baxter. 2,640,007, May 26.
Alkylbenzylthiuronium salts. P. L. de Benneville, N. H. Leake, and L. H. Bock. 2,640,079, May 26.
Amides. J. A. King and F. H. McMillan. 2,640,055, May 26.
Amides, Preparation of. M. A. Naylor, Jr. 2,640,077, May 26.
Amides, Preparation of. H. A. Straw. 2,640,078, May 26.
Antenna, Achromatic lens. W. E. Kock. 2,640,154, May 26.
Antenna, Shiftable directional. N. Marchand. 2,640,192, May 26.
Antipicking device. C. J. Zurlo. 2,639,691, May 26.
Apparatus and method for mixing food products. G. T. Reich. 2,639,898, May 26.
Apparatus for burning fuel in a high velocity gas stream. H. Cohen and J. H. H. Darth. 2,639,581, May 26.
Apparatus for cold welding of metal. A. B. Sowter. 2,639,634, May 26.
Apparatus for controlling the pressure in liquid containers. J. E. Golob. 2,639,726, May 26.
Apparatus for determining boiling points. F. L. Shanda. 2,639,609, May 26.
Apparatus for determining carbon and sulfur. C. B. Francis. 2,639,980, May 26.
Apparatus for dielectric heating. M. P. Vore and R. E. Kirby. 2,640,141, May 26.
Apparatus for drying photographic prints. R. Sardeson and G. M. Dye. 2,639,517, May 26.
Apparatus for electric arc stud welding. A. R. Ainsworth and J. B. Miller. 2,640,133, May 26.
Apparatus for forming metal articles. H. R. Cheek. 2,639,757, May 26.
Apparatus for growing tender plants. A. G. McKee. 2,639,550, May 26.
Apparatus for making buckles. E. M. Torbert. 2,639,489, May 26.
Apparatus for mixing hypochlorite solutions. R. L. Carr. 2,639,981, May 26.
Apparatus for producing glare screens. J. D. Ryan and P. T. Mattimoe. 2,639,087, May 26.
Apparatus for shaping tampon applicator tube ends. O. T. Thompson. 2,639,646, May 26.
Apparatus for use in making insoles. G. F. C. Burke. 2,639,447, May 26.
Apparel rack. P. S. Hybertsen. 2,639,814, May 26.
Applying ink to ethylene polymer surfaces. A. A. Pavlic. 2,639,998, May 26.
Article transfer for bakery conveyer system. J. L. Atwood. 2,639,800, May 26.
Artificial leaves of plants, Manufacture of. G. Casale. 2,639,533, May 26.
Attachment for lathes. R. C. Palmer. 2,639,643, May 26.
Attachment for lawn mowers. C. J. Goeske. 2,639,572, May 26.
Awning, Illuminated. G. C. Malone. 2,640,143, May 26.
Awning structure. W. S. Davis. 2,639,476, May 26.
Baggage rack. Y. W. Ehret. 2,639,817, May 26.
Bait box. G. A. Gemmer. 2,639,538, May 26.
Bait and manufacture, Seamless cover tennis. A. E. P. Milner and R. G. Tugen. 2,639,920, May 26.
Barber clipper holder. F. P. Belloff and T. R. Bevacqua. 2,639,880, May 26.
Barber's clippers stand. W. A. Lee. 2,639,820, May 26.
Barge for offshore well drilling. L. B. Durant and W. E. Padel. 2,639,588, May 26.
Barometric measurement of elevation. D. H. Clewell and C. F. Rust. 2,639,615, May 26.
Base marking apparatus. H. C. Atkins and H. E. Hermanson. 2,639,661, May 26.
Basic refractory brick and process. R. P. Heuer. 2,639,993, May 26.
Battery. L. E. Pucher and W. A. Cunningham. 2,640,090–1, May 26.
Battery insulator tube manufacture. H. J. Berenson. 2,639,647, May 26.
Bearing: *See*—
Sealed bearing.
Self-lubricating universal bearing.
Bearing. H. C. Tryon. 2,639,955, May 26.
Bearing and steel therefor. K. F. Schauwecker. 2,639,985, May 26.
Bearing assembly for absorbing vibrations of centrifuge spindles and the like. J. E. Cook. 2,639,953, May 26.
Bearing insert removing and applying tool. L. D. Rookstool. 2,639,498, May 26.
Bed, especially a camp bed. E. Herzog. 2,639,442, May 26.
Bedpan. G. A. Perry. 2,639,439, May 26.
Belt, Safety. C. E. Sanders and J. C. MacKinnon. 2,639,852, May 26.
Belt tightener and slack adjuster. H. S. Ausherman. 2,639,623, May 26.
Benzidine type compounds, Manufacturing. M. D. Farkas and J. Delch. 2,640,081, May 26.
β-hydroxyethyl-thio-anthraquinones. V. S. Salvin and E. F. Landau. 2,640,060, May 26.
Bicycle rack. S. M. and R. M. Risvold. 2,639,813, May 26.
Bit: *See*—
Rotary rock drilling bit.
Bleaching equipment, Potato chip. H. D. Furniss. 2,639,656, May 26.
Blood extracting device. R. H. Volgenau. 2,639,709, May 26.
Boiler feed, Automatic. P. H. Williams. 2,639,675, May 26.
Boom, Articulated. D. P. Welden. 2,639,826, May 26.
Bottle closures, Making. R. Sonnenberg. 2,639,645, May 26.
Box: *See*—
Bait box.
Minnow box.
Box. B. L. Thurston. 2,639,854, May 26.
Box nailing machine. G. C. Cable. 2,639,427, May 26.
Box staying machine. M. V. Silby. 2,639,649, May 26.
Brake. J. G. Helvern. 2,639,787, May 26.
Brake operator, Top shoe. H. F. Vickers. 2,639,785, May 26.
Branched article and making same. M. Seewald. 2,639,532, May 26.
Brick and tile laying machine. J. D. Kirschmann. 2,639,608, May 26.
Brief case and hand protecting pocket, Combination. E. E. Lee. 2,639,749, May 26.
Bright metal plating. F. T. Clayton. 2,640,001, May 26.
Broiler. M. E. Fry. 2,639,659, May 26.
Bromoalkylsilanes and their preparation. J. L. Speier, Jr. 2,640,064, May 26.
Brooch-fastening device, Safety. A. E. Hestermann. 2,639,482, May 26.
Brush rest, Paint. D. H. Nelson. 2,639,835, May 26.
Buffing device. F. P. Bitomley. 2,639,565, May 26.
Buffing machine for drawing rolls. L. M. Cotchett and R. K. Butler. 2,639,558, May 26.
Bumper for tractors and the like. W. E. Meyer and G. L. Flaherty. 2,639,933, May 26.
Butadiene-vinylpyridene copolymer and carbon black composition. L. H. Howland and V. S. Chambers. 2,640,042, May 26.
Butter melting and applicator unit for bread toasters. E. I. Biehls. 2,639,658, May 26.
Cabinet: *See*—
Vending machine cabinet.
Cable connector. H. R. Billeter. 2,639,827, May 26.
Cable splices and making it, Coaxial. C. E. Lewis and H. R. Longfellow. 2,640,095, May 26.
Camber adjusting tool. F. H. Hendrick. 2,639,756, May 26.
Can punch. F. E. Gillespie, Jr. 2,639,500, May 26.
Can stacker, Tin. H. W. Madden. 2,639,823, May 26.
Canning process. C. O. Ball. 2,639,991, May 26.

Car: *See*—
Remotely controlled toy car.
Car, floor, and wall washer. A. H. Rowlett. 2,639,945, May 26.
Car seat fabric clip. E. B. Fernberg. 2,639,764, May 26.
Carbonizing coal. K. J. Nelson. 2,640,015, May 26.
Carbonylation of aryl halides. H. J. Leibu. 2,640,071, May 26.
Carburetor. E. Olson. 2,639,907, May 26.
Cards for playing canasta or the like, Simplified pack of. H. A. Laycott. 2,639,922, May 26.
Carriage or the like having individually rockably supported axles. H. Miklos. 2,639,925, May 26.
Carrier for eyeglasses, dimmer-glasses, and the like. S. H. Lundberg. 2,639,429, May 26.
Carton setup machine. R. J. Fahey. 2,639,648, May 26.
Case: *See*—
Cigarette lighter case. Humidor cigar case.
Case with collapsible display rack, Portable sample. J. J. Hellman. 2,639,793, May 26.
Catcher for ironing boards, Clothes. K. M. McCann. 2,639,522, May 26.
Cathode-ray tube sealing process. A. L. Buttino and H. R. Patterson. 2,639,535, May 26.
Cavity molding with dielectric preheat, Automatic multiple. J. H. Green and W. Makenny. 2,639,465, May 26.
Centrifugal switch. F. Heinzmann. 2,640,120, May 26.
Ceramic transducer element. G. N. Howatt. 2,640,165, May 26.
Chaff separator and furnace. G. W. Hardy. 2,639,780, May 26.
Chain and chain tightener, Tire. M. W. Pike. 2,639,753, May 26.
Chain machine. M. H. Lange. 2,639,755, May 26.
Chair: *See*—
Folding chair.
Check and opener for closures, Combined. P. H. Travis. 2,639,458, May 26.
Chemical process. J. W. Churchill. 2,639,977, May 26.
Chlorosulfonation of polythene using azo catalysts. J. S. Beekley. 2,640,048, May 26.
Christmas tree stand. D. C. Fox. 2,639,877, May 26.
Chuck for conveyers and the like, Automatically releasable. H. Pikal. 2,639,799, May 26.
Cigarette dispenser. R. M. Frederick. 2,639,960, May 26.
Cigarette holder for automobile ash trays. A. Smereck. 2,639,719, May 26.
Cigarette lighter case. J. L. McCracken. 2,639,598, May 26.
Cigarette, Mouthpiece. D. W. Molins. 2,639,715, May 26.
Cigarette support, extinguisher, and economizer, Combined. C. H. Leong. 2,639,718, May 26.
Circuit: *See*—
Telephone pay station circuit. Trigger circuit.
Circuit breaker, Electric. R. N. Rowe and R. G. Page. 2,640,127, May 26.
Circuit for electric motors, Starting. T. R. Wieseman. 2,640,177, May 26.
Circuit interrupter. H. H. Fahnoe and W. J. Paxton. 2,640,128, May 26.
Circuits, Multivibrator tube. T. E. Hayes. 2,639,858, May 26.
Circulation system, Steam heating. B. C. Skinner. 2,639,861, May 26.
Cladding metal. E. T. Clayton. 2,640,002, May 26.
Clamp: *See*—
Adjustable cam actuated hold-down clamp.
Cleaner: *See*—
Cotton cleaner. Oil well pump cleaner.
Egg cleaner. Portable cotton cleaner.
Cleaning apparatus, Dry. M. F. Huebach and A. H. De Moss. 2,639,516, May 26.
Cleaning chocolate molds. A. C. Steenberg. 2,640,003, May 26.
Cleaning device, Stable. H. A. Tonagel and L. Stephani. 2,639,803, May 26.
Clip: *See*—
Car seat fabric clip.
Clock device, Novelty. S. M. Lubin. 2,639,577, May 26.
Closure structure. R. C. Pratt. 2,639,766, May 26.
Clothes drying rack. H. D. Fogg. 2,639,816, May 26.
Clothes pole, Folding. I. E. Wells. 2,639,818, May 26.
Clutch: *See*—
Fluid operated clutch.
Clutch for washing machines or the like, Drive. J. W. McNairy. 2,639,794, May 26.
Clutch shifting means for hand brakes of railway cars. R. J. Olander. 2,639,627, May 26.
Clutch shifting mechanism for geared hand brakes. R. J. Olander. 2,639,628, May 26.
Coal conditioning and conveying means. E. C. Webb. 2,639,681, May 26.
Coating cotton fabrics. W. R. Stanton. 2,639,966, May 26.
Coaxial cable connector. E. G. Werner. 2,640,118, May 26.
Coffee dispenser. W. A. Stockdale. 2,639,837, May 26.
Coke, Manufacture of. S. W. Martin. 2,640,016, May 26.
Collapsible hinged table. J. W. Beiger. 2,639,523, May 26.
Collar and like garment parts. B. Liebowitz. 2,639,434, May 26.
Collar attachment. J. W. Less. 2,639,435, May 26.
Collar holder. O. Gavrilovich. 2,639,436, May 26.
Collars, Method and apparatus for making. B. Liebowitz. 2,639,841, May 26.
Collars, Method and apparatus for the manufacture of. B. Liebowitz. 2,639,842-3, May 26.
Colostomy appliance with a removable adapter device. T. Fazio. 2,639,710, May 26.
Combination fueling and relief valve. J. C. Cartee. 2,639,730, May 26.
Combined starting and protective switch. V. G. Vaughan, R. G. Mawney, and J. A. Bagnall. 2,640,124, May 26.
Combustion apparatus using preheated air. C. Cone and W. H. Dailey, Jr. 2,639,910, May 26.
Compensated pressure gauge. M. C. Tate. 2,639,616, May 26.
Composite board, Manufacturing. W. E. Wilson. 2,639,994, May 26.
Composition, bath, and process for chromium plating. F. Passal. 2,640,021, May 26.
Composition, bath, and process for chromium plating. J. E. Stareck. 2,640,022, May 26.
Concentration of secondary alkyl sulfate salt solutions. P. W. O. Wilga. 2,640,069, May 26.
Conductor for electrified material handling apparatus, Shockproof. W. G. Wehr. 2,640,114, May 26.
Connector: *See*—
Cable connector. Strap connector.
Coaxial cable connector.
Contact wheel. W. J. Cosmos. 2,639,560, May 26.
Container: *See*—
Simulated golf club beverage and cup container.
Container for carbonated beverages, Processing. G. L. N. Meyer. 2,639,849, May 26.
Control means for film reel storage cabinets. I. Geller. 2,639,957, May 26.
Control mechanism for awning type windows. E. F. Wiley. 2,639,474, May 26.
Control pulse distributing system. A. Kienast. 2,640,188, May 26.
Control system for cutting apparatus. E. C. Hartwig. 2,640,152, May 26.
Controlled pressurizing of pumps. J. P. Johnson. 2,639,672, May 26.
Conveyer belt driving unit. A. W. Duncan. 2,639,802, May 26.
Conveyer, Sheet. A. J. Albrecht. 2,639,664, May 26.
Cooker, Automatic. H. L. Lawson. 2,639,657, May 26.
Cooling apparatus, Liquid. H. G. Mojonnier. 2,639,591, May 26.
Coop, Hinged door chicken. E. W. Aylor. 2,639,473, May 26.
Copolymerizing vinylidene chloride and vinyl chloride. W. J. Le Fevre and H. W. Moll. 2,640,050, May 26.
Cord treating apparatus, Industrial. R. R. Ambler. 2,639,485, May 26.
Cotton cleaner. J. A. Streun. 2,639,468, May 26.
Counterbeating device for threshing machines. J. Moullec. 2,639,714, May 26.
Coupling: *See*—
Thrust coupling.
Coupling for earth boring units. C. W. Kandle. 2,639,931, May 26.
Coupling for joining lengths of trough gutters. J. D. Tennison, Jr. 2,639,680, May 26.
Coupling screw-on machine. J. W. Stouffer. 2,639,497, May 26.
Cover: *See*—
Mattress cover.
Cover for vehicles. J. T. Flaherty. 2,639,751, May 26.
Crab trap. W. J. Buford. 2,639,540, May 26.
Crystallizing dihydrostreptomycin sulfate. R. B. Peet. 2,640,054, May 26.
Cupola-Bessemer process, Continuous. J. F. Jordan. 2,639,984, May 26.
Curler, Hair. H. Solloway and T. L. Bonkowski. 2,639,720, May 26.
Curtain. M. Druck. 2,639,767, May 26.
Curtain rod and bracket therefor. I. V. Thornton. 2,639,930, May 26.
Curve pen adapter. G. Lory. 2,639,506, May 26.
Curved platen printing press. J. F. Jirousek. 2,639,667, May 26.
Cutter: *See*—
Pipe cutter.
Cycle control system, Hydraulic press. L. A. Camerota. 2,639,585, May 26.
Cylinder, Printing. C. W. Chase and K. R. Manning. 2,639,668, May 26.
Dashpot for carburetor throttles, Electrically controlled. J. F. Puro. 2,639,778, May 26.
Generator for oil or the like. C. J. Glanzer. 2,639,779, May 26.
Deceleration device, Controlled. J. K. Northrop, E. C. Denzin, and D. B. Smith. 2,639,786, May 26.
Decelerator, Crash. L. T. Reynolds. 2,639,913, May 26.
Declutching mechanism for clothes wringers, Emergency. S. I. Gabrielson. 2,639,602, May 26.
Decomposition of urea and thiourea adducts. C. S. Lynch. 2,640,051, May 26.
Decoy. F. Stossel. 2,639,534, May 26.
Defrosting refrigerators, Means for. A. G. Schramm. 2,639,590, May 26.

Dehydrogenation catalyst and process. H. C. Chitwood, J. T. Fitzpatrick, G. W. Fowler, and B. T. Freure. 2,640,084, May 26.
Dehydrohalogenation of dihalopropionic acid compounds. W. O. Ney, Jr. 2,640,073, May 26.
Deliming hides with citric acid fermentation liquor. H. Rudy. 2,639,967, May 26.
Deodorizing toilet paper holder. H. I. Matchett. 2,639,939, May 26.
Desulfurization of heavy petroleum oils. R. B. Mason and H. J. Rose. 2,640,011, May 26.
Determining insect parts in cereal flour. R. A. Larkin. 2,639,617, May 26.
Device for cleaning the tubes of automobile radiators and the like. J. S. Rouse. 2,639,453 May 26.
Device for converting motion into electrical energy. A. E. Shaw and R. J. Moon. 2,640,170, May 26.
Device for guiding weblike material. K. G. Wester. 2,639,463, May 26.
Device for measuring workpieces such as screw threads and the like. W. Rinker. 2,639,509, May 26.
Device for moistening adhesive labels and for feeding sheets. J. N. Procter. 2,639,688, May 26.
Device for sealing wire lines, including a cable having spaced sealing members. E. G. Akers. 2,639,692, May 26.
Digester tower. W. A. Kuebler. 2,639,902, May 26.
Dispenser: *See*—
Cigarette dispenser. Coffee dispenser.
Dispenser. P. Martin. 2,639,678, May 26.
Dispenser for disks, pads, gaskets, and sheetlike members. E. R. Couden. 2,639,959, May 26.
Dispensing device, Liquid. E. S. Higginbotham. 2,639,944, May 26.
Dispensing mechanism, Battery separator. J. K. Shannon and R. R. Schmit. 2,639,824, May 26.
Dispensing unit, Refrigerated liquid. A. J. Cohen, S. Levine, M. Caminear, and S. S. Price. 2,639,724, May 26.
Display device. R. B. Ochsner. 2,639,528, May 26.
Display device. J. C. Vida. 2,639,518, May 26.
Display device, Automatic three-dimensional. H. M. Riley and A. Huether. 2,639,525, May 26.
Display device, Garment. Z. Udvardy. 2,639,844, May 26.
Display package kit. H. J. Stern. 2,639,805, May 26.
Display sign. R. E. Fox. 2,639,529, May 26.
Distillation of tars and like liquid hydrocarbons. T. O. Wilton. 2,640,013, May 26.
Dolly or trailer assembly. P. O. Parks. 2,639,926, May 26.
Domestic appliance. C. F. Abresch. 2,639,600, May 26.
Door check and holding device. R. I. Schonitzer. 2,639,460, May 26.
Door closer. W. W. Werner. 2,639,459, May 26.
Door for tumbler type clothes washing machines, Swingable. H. Miller. 2,639,601, May 26.
Door lining. M. R. Jonsson. 2,639,472, May 26.
Door slam muffler means. B. L. Fry. 2,639,461, May 26.
Dowel pin cutting and beveling machine. C. L. Johnson. 2,639,739, May 26.
Drier: *See*—
Sock drier.
Drier and method. D. L. Simon. 2,639,515, May 26.
Drill hole gauge. J. C. Legrand. 2,639,512, May 26.
Drilling machine, Self-propelled. R. L. Gallo. 2,639,895, May 26.
Drinking fountain, Animal actuated. A. F. Klinzing. 2,639,690, May 26.
Drive coupling of the permanent magnet type. I. V. Zosulin, G. J. Okulitch, G. M. Volkoff, V. J. Okulitch, and A. S. J. Elliott. 2,640,160, May 26.
Driving belt. H. E. Ginder. 2,639,022, May 26.
Driving pile sheils, Method and apparatus for. E. A. Smith. 2,639,589, May 26.
Dry cleaning apparatus utilizing volatile solvent, Closed system. W. L. Wellford, Jr. 2,639,599, May 26.
Dumping device, Pan. K. H. Otte. 2,639,827, May 26.
Duplicator speed control. C. L. Calosi. 2,640,176, May 26.
Dye-receptive synthetic fiber, Preparing a. G. E. Ham. 2,639,069, May 26.
Dynamoelectric machine. J. J. Korzdorfer. 2,640,181, May 26.
Earth-boring machine. G. H. Jones. 2,639,892, May 26.
Egg cleaner. G. Aspinall. 2,639,561, May 26.
Egg handling machine. R. C. Sneed and C. S. Jordan. 2,639,801, May 26.
Electric controlling apparatus. J. Grillo. 2,640,098, May 26.
Electrical fixture. K. Vernen. 2,639,881, May 26.
Electrical resistor and making same. M. A. Thom. 2,640,132, May 26.
Electrical switch. C. W. Conselman. 2,640,115, May 26.
Electrode. J. D. Cobine. 2,640,135, May 26.
Electrode for underwater cutting. B. Ronay. 2,640,136, May 26.
Electron tube. G. J. Agule. 2,640,168, May 26.
Electrophoretic borating of copper wire. R. E. Palmateer. 2,640,024, May 26.
Electroplating barrel. A. M. Lazaro. 2,640,025, May 26.
Electrostatic filter. C. W. Savits. 2,639,781, May 26.
Elevator for flour mill stocks, Pneumatic. G. Watts. 2,639,862, May 26.
Elevator, Pile. K. S. Macey. 2,639,917, May 26.
Energizing system for borehole radioactivity apparatus. S. Krasnow and M. J. Test. 2,640,161, May 26.
Engine: *See*—
Internal - combustion engine. Valveless pulse jet engine.
Two - cycle internal - combustion engine.
Engine and improved crankcase induction means therefor, Two-cycle. E. C. Kiekhaefer. 2,639,699, May 26.
Engine having tail pipe ejector to induce flow of cooling air, Turbojet. A. V. D. Willgoos. 2,639,579, May 26.
Engine starting apparatus with generator separately excited during starting. R. H. Short and J. W. Dyer. 2,640,163, May 26.
Engine with exhaust jet, Air-cooled internal-combustion. D. K. Warner. 2,639,697, May 26.
Envelope for electron flow device and glass-metal seal embodied therein. Z. J. Atlee and J. B. Gosling. 2,640,167, May 26.
Envelope opener and paper sheet cutter, Combination. V. and W. Kobler. 2,639,771, May 26.
Extracting device for bakery products. K. H. Otte. 2,639,828, May 26.
Extractor: *See*—
Unloading extractor.
Extractor for unginned or seed cotton, Bur. A. T. Moseley. 2,639,467, May 26.
Extrusion apparatus. W. A. Magerkurth. 2,639,464, May 26.
Extrusion of continuous metal articles, R. E. Perry, G. Ansel, and R. L. Dietrich. 2,639,809, May 26.
Extrusion of metal billets having a temperature gradient. J. P. Doan. 2,639,810, May 26.
Fastener for rigid ventilated awnings, Resilient. D. J. Freeman. 2,639,477 May 26.
Fastening means for closures. H. B. Medley. 2,639,834, May 26.
Fatty acid salts of nitrogen-containing polyethers. H. L. Parry and Q. T. Wiles. 2,640,037, May 26.
Feeding device for carton blanks, Timed. R. W. Anness. 2,639,916, May 26.
Fence stretcher. A. Thorsbakken. 2,639,889, May 26.
Filamentary cathode. H. Jacobs and G. Hees. 2,639,996, May 26.
Filler block for loose-leaf binders. W. McKowen. 2,639,713, May 26.
Film holder. P. D. Merrill. 2,639,530, May 26.
Filter: *See*—
Electrostatic filter.
Filtering apparatus, Electric. P. E. Whittington. 2,640,026, May 26.
Fishline holder. I. Levine. 2,639,869, May 26.
Fish lure. C. L. Wagner. 2,639,537, May 26.
Fishing plug and lure, also means and method for making, Artificial. T. Pappas and J. A. Charette. 2,639,743, May 26.
Fishing trolley with improved trolley frame. S. T. Greske. 2,639,535, May 26.
Flame arrester. W. A. Lebus. 2,639,705, May 26.
Flameproofing method and product. L. P. Seyb and C. A. Neros. 2,640,000, May 26.
Flash welder control, Hydraulic. K. A. Doutt. 2,640,134, May 26.
Flattron, Electric. C. Anderson and G. Adamec. 2,639,320, May 26.
Flaw detector for wire mesh looms. N. W. Fisher. 2,639,735, May 26.
Flow regulator. L. J. Smith. 2,639,883, May 26.
Fluid operated clutch. F. E. Munschauer. 2,639,795, May 26.
Fluid valve. W. F. Mitchell. 2,639,884, May 26.
Fluorohydrocarbon substituted silanols. C. F. Kohl, Jr. 2,640,063, May 26.
Flush gun for automobile radiators. M. J. Graham. 2,639,908, May 26.
Flux oil and revivifying asphalt roads therewith. F. S. Scott. 2,639,651, May 26.
Folding chair. L. L. Westcamp. 2,639,762, May 26.
Forceps, Obstetrical. A. Miseo. 2,639,712, May 26.
Forging machine. W. W. Criley, F. F. Criley, and H. P. Boggis. 2,639,632, May 26.
Formation of a surface easily wettable by mercury. C. E. Pollard, Jr. 2,640,020, May 26.
Formation of metal strip under controlled pressures. J. B. Brennan. 2,639,490, May 26.
Forming a transparent reflection reducing coating on glass and the article resulting therefrom. S. McLean. 2,639,990, May 26.
Four-way valve. J. Briechle. 2,639,728, May 26.
Freezing machine. J. R. Watt. 2,639,594, May 26.
Frequency control apparatus, Automatic. H. L. Schultz. 2,640,156, May 26.
Frequency control system. S. I. Rambo. 2,640,155, May 26.
Fuel gas from carbonaceous, Production of. J. C. Kalbach. 2,639,982, May 26.
Fuel supply system, Emergency. C. F. Schorn. 2,639,584, May 26.
Furnace and draft hood assembly, Gas. S. F. Ciricillo. 2,639,706, May 26.

Furnace atmosphere indicator. E. P. Anderson. 2,639,610, May 26.
Fuse adapter plug. C. E. Eggers. 2,640,126, May 26.
Fuse, Sheathed. P. H. Thompson. 2,639,669, May 26.
Fusible extension cord plug. A. G. Bauer. 2,640,184, May 26.
Garden tool. W. K. Foulke. 2,639,935, May 26.
Garment made from gathered cloth or film, Cover. W. Spear. 2,639,431, May 26.
Garment parts and foldline-forming means therefor. B. Liebowitz. 2,639,433, May 26.
Gas analyzer and use. W. M. Zaikowsky. 2,639,978, May 26.
Gas turbine having a power turbine and a plurality of compressor-turbines in series, Contrarotating. H. C. Steele. 2,639,583, May 26.
Gauge: *See*—
Compensated pressure gauge. Drill hole gauge. Taper gauge.
Gauge for winding machines, Automatic electric stop. C. W. Guion. 2,639,865, May 26.
Gear actuated predetermined torque release wrench. J. W. Stirzel. 2,639,637, May 26.
Gear finishing machine. F. E. McMullen and T. H. Peck, 2,639,557, May 26.
Generator: *See*—
Vapor generator.
Glare eliminating device for rearview mirrors of motor vehicles. E. F. Piwczynski and R. Galinski. 2,639,641, May 26.
Glare shield for spectacles. C. J. Gale. 2,639,430, May 26.
Glass fiber mats, Forming. A. L. Simison. 2,639,759, May 26.
Governor control for internal-combustion engine throttle valves, Flexible. M. F. Peltz. 2,639,700, May 26.
Granulating machine, Rotary. L. Burn, H. Todd, and J. Oliver. 2,639,747, May 26.
Grapple. R. O. Billings. 2,639,937, May 26.
Grater. F. D. Peel. 2,639,748, May 26.
Greenhouse with means for controlling light and heat. A. G. McKee. 2,639,551, May 26.
Grignard reagents of organoalkoxysilanes. J. L. Speier. 2,640,067, May 26.
Grinder, Cam. R. E. Price. 2,639,559, May 26.
Grinding wheel feeding mechanism. H. L. Swainey. 2,639,563, May 26.
Growth promoting preparations for plants. H. Veldstra. 2,639,983, May 26.
Guide attachment for hair clippers. G. E. Thurston. 2,639,503, May 26.
Hammer and wear-plate structure for attrition pulverizers. W. C. Rogers. 2,639,863, May 26.
Handle assembly for vacuum cleaners. F. T. Smith. 2,639,456, May 26.
Handle member. M. Rickettson. 2,639,521, May 26.
Hanger: *See*—
Trousers hanger.
Hanger hook attaching device, Garment. J. H. Myers. 2,639,499, May 26.
Hanger with integral moth repellent receiving ends, Coat. F. O'Farrell. 2,639,846, May 26.
Harvester with automatically controlled variable-speed drive, Self-propelled. S. F. Pasturczak. 2,639,569, May 26.
Harvesting machine, Nut. A. McLaughlin. 2,639,537, May 26.
Hearing aid test structure. D. B. Hull. 2,640,099, May 26.
Heat stabilization of polyamides. G. S. Stamatoff. 2,640,044, May 26.
Heat transfer liquid of disproportionation mixture of alkyl orthosilicates. E. Da Fano. 2,640,032, May 26.
Heated cathode electron multiplier. S. Nevin. 2,640,169, May 26.
Heater: *See*—
Air fan heater.
Heater for the coolant liquid of internal-combustion engines. J. A. Merritt. 2,640,138, May 26.
Heel seat fitting machine. F. A. Eich and L. G. Miller. 2,639,448, May 26.
Helicopter wings and other aircraft structures with boundary layer control. E. A. Stalker. 2,639,874, May 26.
Helmet. T. T. MacLean. 2,639,428, May 26.
Hide and skin working machine employing rotating rolls. R. F. Whitney. 2,639,603, May 26.
Higher alkyl ester production. E. A. M. F. Dahmen. 2,640,070, May 26.
Hinge construction. C. C. Fish. 2,639,462, May 26.
Hinged light bulb protector. C. L. Suchan. 2,640,147, May 26.
Hoisting apparatus, Vehicle-mounted. L. L. Eakin. 2,639,825, May 26.
Holder: *See*—
Barber clipper holder.
Collar holder.
Deodorizing toilet paper holder.
Film holder.
Fishline holder.
Ironing board holder.
Live bait holder.
Plant and flower holder.
Holder for parking meters, Sign. M. J. Ezzy and E. F. Bannon. 2,639,527, May 26.
Hopper-feed apparatus for metal screw thread blanks and the like. V. H. Fray. 2,639,445, May 26.
Hot beverage preparation apparatus, Portable. T. Stiebel. 2,640,140, May 26.
Humidifier, Portable room. D. M. Dow. 2,639,905, May 26.
Humidor cigar case. A. W. Stephenson. 2,639,958, May 26.
Hydrolysis resistant heat transfer composition. E. Da Fano. 2,640,031, May 26.
Hydroxyalkyl-substituted tocopherols. L. Weisler. 2,640,058, May 26.
Hydroxyalkylthio anthraquinones, Preparing. V. S. Salvin and E. F. Landau. 2,640,059, May 26.
Hyperfrequency vacuum tube. E. Touraton and C. Dumousseau. 2,640,172, May 26.
Illuminating device, Indicator. S. Levy. 2,640,144, May 26.
Imparting lateral movement to an automobile, Method and device for. M. L. Duff. 2,639,777, May 26.
Improving gas distribution in bubble-cap tower operating on fluidized solids, Method of and apparatus for. R. J. Fritz. 2,639,973, May 26.
Improving the whiteness or color of materials and products resulting therefrom. J. D. Kendall and G. F. Duffin. 2,639,990, May 26.
Indicator: *See*—
Furnace atmosphere indicator.
Tire pressure indicator.
Typewriter page bottom margin indicator.
Indicator. R. L. Duncan. 2,639,686, May 26.
Inflating means. W. J. Phane. 2,639,750, May 26.
Inhibiting storage tank corrosion. A. C. Broyles. 2,639,971, May 26.
Instantaneous frequency monitor. W. R. Wilson and J. B. Reynolds. 2,640,106, May 26.
Instrument, Embalming. G. H. Wartman. 2,639,484, May 26.
Instrument, Telephone. P. T. O'Neil. 2,640,109, May 26.
Intensifier. B. H. Short and A. O. Lautzenhiser. 2,640,174, May 26.
Internal-combustion engine. C. H. Ward. 2,639,698, May 26.
Ion controller. W. W. Hicks. 2,639,972, May 26.
Ion controller. W. W. Hicks. 2,640,158, May 26.
Ironing board holder. W. G. Michel. 2,639,879, May 26.
Isocyanate, Preparing an. F. C. Schaefer and E. K. Drechsel. 2,640,068, May 26.
Jack: *See*—
Railroad car moving jack.
Joint: *See*—
Structural joint.
Joint or coupling between tank ball and lift rod. P. Hertzberg. 2,639,438, May 26.
Joint structure, Extensible. P. Rosenberg. 2,639,789, May 26.
Keyboard construction for check writers, etc. J. Whitaker. 2,639,663, May 26.
Knife for carving leather and the like. R. E. Reynolds. 2,639,505, May 26.
Knitting machine having a latch lifter and operating same, Circular. G. C. Parham. 2,639,596, May 26.
Labeling machine. R. J. Newman and D. S. Friend. 2,639,831, May 26.
Ladder structure. R. E. Pierce. 2,639,853, May 26.
Lamp unit, Jacketed and double ended. E. C. Martl. 2,640,145, May 26.
Latch means for telescopic gun sights. F. A. Pachmayr. 2,639,507, May 26.
Latex foam sponge, Manufacture of. R. O. Borton. 2,640,087, May 26.
Latex sponge rubber, Making. P. D. Brass and J. U. Mann. 2,640,036, May 26.
Leg unit, Laterally moving detachable. J. L. Jacobson. 2,639,956, May 26.
Leno-weave loom. J. Bamert. 2,639,733, May 26.
Leveling device for tin plate feeder platforms. D. V. Strock. 2,639,784, May 26.
Lifter: *See*—
Wheel lifter.
Lifting and rotating machine, Pneumatic. H. V. Sax and H. V. Dressler. 2,639,822, May 26.
Light: *See*—
Olitight switchboard pilot light.
Lighter. W. F. Wagner. 2,639,597, May 26.
Lighting fixture for elongated tubular lamps. G. Smith. 2,640,146, May 26.
Lightning arrester and parts therefor. J. W. Kalb. 2,640,096, May 26.
Line spooling device for fishing reels. L. D. Graham. 2,639,870, May 26.
Liquid distributing tray. H. Tramm and F. Schaub. 2,639,947, May 26.
Liquid pump. R. E. Gordinier. 2,639,670, May 26.
Lithium hypochlorite-sodium sulfate composition, Intercrystallized. H. L. Robson. 2,640,028, May 26.
Live bait holder. V. Hartman and O. B. Gladwell. 2,639,536, May 26.
Lock: *See*—
Outboard motor lock.
Log turner, Power operated push bar. J. Daubel. 2,639,738, May 26.
Loom: *See*—
Leno-weave loom.
Low reactance shunt. G. H. Fett and R. J. La Plante. 2,640,092, May 26.

Lubricating oil, Compounded. M. W. Hill and R. H. Jones. 2,640,033, May 26.
Luggage carrier for motor vehicles. R. M. Burmeister. 2,639,848, May 26.
Machine control means. R. W. Dean. 2,639,796, May 26.
Machine for applying material to walls. S. A. Earnshaw. 2,639,942, May 26.
Machine for attaching and wiping labels on conduits or other cylindrical articles. J. Welmont. 2,639,830, May 26.
Machine for convergent irradiation. J. Gerneth. 2,640,159, May 26.
Machine for cutting match splints. F. Schafer. 2,639,740, May 26.
Machine for dating and applying closures to bottles. W. E. Zimmermann. 2,639,850, May 26.
Machine for operating on shoes. H. A. Imhof. 2,639,446, May 26.
Machine tool. J. J. Barry and W. B. Retz. 2,639,492, May 26.
Machine tool. W. Belshaw. 2,639,494, May 26.
Mail marking machine for sheets or tapes. H. L. Lambert. 2,639,665, May 26.
Margin stop assembly. J. Reyklin. 2,639,797, May 26.
Marker. A. J. Irving. 2,639,524, May 26.
Masonry wall, Precast reinforced. M. Boss, Jr., and O. Boss. 2,639,606, May 26.
Massage vibrator. D. B. Brown. 2,639,707, May 26.
Material-handling machine. R. U. Zollars, J. D. Lawson, and J. H. Berry. 2,639,949, May 26.
Mattress cover. E. S. de Monsabert. 2,639,444, May 26.
Measuring device, High voltage. E. W. Heroid. 2,640,093, May 26.
Mechanical figure simulating pouring and drinking liquid. M. Adler. 2,639,547, May 26.
Mechanical hand. T. C. Harry. 2,639,437, May 26.
Mechanism for power transmissions. M. Taylor. 2,639,631, May 26.
Melamine-formaldehyde reaction products, Preparation of. W. M. Bruner and H. M. Kvalnes. 2,640,041, May 26.
Metallic resilient wheel. G. A. Schehr. 2,639,752, May 26.
Metallization of nonmetallic surfaces. C. F. Drake. 2,639,997, May 26.
Method in sulfite pulping for obtaining concentrated waste liquor. G. Kyrklund. 2,639,986, May 26.
Micrometer. F. M. Laserson. 2,639,510, May 26.
Microphone, Second order gradient directional. H. F. Olson and J. Preston. 2,640,110, May 26.
Microwave heating. T. P. Kinn. 2,640,142, May 26.
Minnow box. T. P. Butler. 2,639,906, May 26.
Missal stand. L. R. Le Tang. 2,639,541, May 26.
Mixer: *See*—
Pin mixer.
Mixer. A. J. McMaster, W. H. Kitto, and K. Burian. 2,639,904, May 26.
Mixtures of carbon monoxide and hydrogen, Production of. M. C. K. Jones. 2,640,034, May 26.
Molded structure. C. C. Miafeldt. 2,639,876, May 26.
Monitor for horizontal cassette changer, Exposure. Z. L. Collins and F. J. Euler, Jr. 2,640,160, May 26.
Monitor system insensitive to impedance variations. D. K. Gannett. 2,640,094, May 26.
Motor: *See*—
Time keeping device motor.
Motor and stabilizing means therefor, Electric. E. F. W. Alexanderson and S. P. Nixdorff. 2,640,179, May 26.
Motor or pump, Gear. J. P. Johnson. 2,639,694, May 26.
Motor with variable area exhaust nozzle, Combustion products reaction. W. D. Pouchot. 2,639,578, May 26.
Mount for reaction motors. B. Pearlman. 2,639,582, May 26.
Mounting: *See*—
Tape reel mounting.
Mower wheel seal. A. R. Cooper. 2,639,929, May 26.
Multiple time switch. J. C. Rivet. 2,640,117, May 26.
Multiway valve. D. H. Bierman, J. A. Jawett, and A. D. Bierman. 2,639,723, May 26.
Muting device for accordions. E. C. Filice. 2,639,640, May 26.
N-organolead-phthalimides as fungicides. W. B. Ligett, R. D. Closson, and C. N. Wolf. 2,640,006, May 26.
Nail pulling device. W. N. Henry. 2,639,887, May 26.
Nondiscoloring reclaim and preparation. G. L. Brown, T. A. Johnson and R. B. Knill. 2,640,035, May 26.
Oil control means for poppet valve internal-combustion engines. R. L. Skinner. 2,639,703, May 26.
Oil filter and pressure regulation systems for engines. J. P. Kovacs. 2,639,783, May 26.
Oil-shale eduction apparatus. C. H. O. Berg. 2,640,019, May 26.
Oil-shale eduction process and apparatus. C. H. O. Berg. 2,640,014, May 26.
Olitight switchboard pilot light. A. B. Johnson, Jr. 2,640,189, May 26.
Oil well pump cleaner. R. H. Reese. 2,639,674, May 26.
1-amino-2-alkyl-mercapto-4 hydroxy-anthraquinones, Preparation of. G. W. Seymour and V. S. Salvin. 2,640,061, May 26.
1-amino-2-hydroxyalkyl mercapto-4-hydroxy anthraquinone dyestuffs. G. W. Seymour and V. S. Salvin. 2,640,062, May 26.
1-phenyl-2 (methyl-camphosulfonyl) amino propanols. J. H. T. Ledrut. 2,640,076, May 26.
Opener and handle, Combined can. F. W. Wormelle, Jr. 2,639,502, May 26.
Operating mechanism for multiple sash windows. E. F. Wiley. 2,639,475, May 26.
Optically aligning motion-picture projectors, Means for. W. C. Ricord, Sr. 2,639,513, May 26.
Organ stop control. F. M. Schmidt. 2,639,639, May 26.
Organo silicon compounds and their preparation. C. F. Kohl, Jr. 2,640,066, May 26.
Organosilanes, Production of. S. Nitzsche, E. Wiberg, and A. Hertwig. 2,640,065, May 26.
Oscillator system, Blocking. E. C. Dill and L. W. Ballard. 2,640,151, May 26.
Outboard motor lock. W. K. Knutson. 2,639,605, May 26.
Outboard motor lock. W. A. Wardius. 2,639,604, May 26.
Package, Combination. S. Recht. 2,639,806, May 26.
Package for press inking rolls, Shipping. L. C. Ambrette and J. W. McNeil. 2,639,807, May 26.
Packaging hangered garments. C. B. Blessing. 2,639,566, May 26.
Packaging machine, Universal. J. P. Murdoch and A. J. Faulhaber. 2,639,567, May 26.
Packaging of tacky materials. A. W. Barry and F. S. Chance, Jr. 2,639,808, May 26.
Packing means for wells. J. C. Webber. 2,639,773, May 26.
Pad: *See*—
Silicone rubber ironing pad.
Paint composition, Mar-resistant. E. A. Wilder and P. E. Chapman. 2,640,038, May 26.
Parachute harness release. J. A. Gaylord. 2,639,936, May 26.
Paraffin removal system for wells. L. H. Rhoads. 2,639,774, May 26.
Partial product machine. D. H. Reeves. 2,639,860, May 26.
Paste applicator for wrapping paper. L. Derr, Jr. 2,639,689, May 26.
Patterns, Preparing. B. W. Nies and E. W. Duffy. 2,639,478, May 26.
Peeling and coring machine, Fruit. A. C. Gross. 2,639,746, May 26.
Phenol-aldehyde-ketone resins. R. H. Sturm. 2,640,043, May 26.
Phenol-furfural resins, Manufacture of. J. McDonald. 2,640,045, May 26.
Photochemical production of branched paraffinic hydrocarbons. H. E. Cier. 2,640,023, May 26.
Pilot operated regulating valve. P. Spence. 2,639,556, May 26.
Pin mixer. R. R. Teale. 2,639,901, May 26.
Pipe: *See*—
Reinforced concrete pipe.
Pipe and casing tongs. F. E. Smith. 2,639,894, May 26.
Pipe and cigarette holder, Tobacco. R. E. Barry. 2,639,717, May 26.
Pipe cutter. E. C. Harding. 2,639,501, May 26.
Pipe seasoner and rejuvenator, Smoking. S. Bellinghieri. 2,639,716, May 26.
Placing a tire in and removing same from a mold. E. A. Glynn. 2,639,466, May 26.
Plant and flower holder. F. W. Tredup. 2,639,552, May 26.
Plate heat exchanger. R. P. L. Hytte. 2,640,194, May 26.
Plug: *See*—
Fuse adapter plug.
Fusible extension cord plug.
Plug and jack, Multipoint. R. P. Arthur. 2,640,183, May 26.
Plug with replaceable fuse element, Extension cord. C. E. Eggers. 2,640,125, May 26.
Polishing device, Shoe. P. D. Douglass. 2,639,452, May 26.
Polycarboxylic acids, Manufacture of. M. L. Goedkoop. 2,640,075, May 26.
Portable cotton cleaner. F. D. Roan. 2,639,469, May 26.
Portable glass washer. T. G. Ford. 2,639,451, May 26.
Portable music stand. M. Ackerman. 2,639,962, May 26.
Pourout for bottles, Regulating. E. Sokolik. 2,639,839, May 26.
Power-operated, predetermined torque release wrench. W. H. Peck. 2,639,636, May 26.
Power plant for rig drive. J. D. Spalding. 2,639,630, May 26.
Precision locating device. H. E. Balsiger. 2,639,562, May 26.
Press: *See*—
Curved platen printing press.
Press for the hollow arbor of a cannon pinion, Indenting. J. Kochis. 2,639,635, May 26.
Preventing corrosion. C. M. Blair, Jr., and W. F. Gross. 2,640,029, May 26.
Primary diamines, Preparation of. D. F. De Tar and C. J. Le Pome. 2,640,080, May 26.
Priming device. A. Morde. 2,639,702, May 26.
Printing machine, Bed and cylinder address. H. P. Elliott. 2,639,662, May 26.
Printing machine, Rotary. A. M. Halley. 2,639,666, May 26.
Printing plate, Process and apparatus for preparing a. J. H. Perry, Jr., and R. C. Graham. 2,639,995, May 26.

Processing and extruding plasticizing materials, Process and apparatus for continuously. D. E. Marshall. 2,640,033, May 26.
Producing a sharply bent corner in a plate. B. J. Voslamber. 2,639,495, May 26.
Producing microphotographs having a three-dimensional effect, Means for. K. A. Fischer. 2,639,653, May 26.
Projector, Display. F. Hotchner. 2,639,918, May 26.
Propelling device, Cable supported. P. N. Travis and G. A. Garske. 2,639,676, May 26.
Protection of beaches from erosion. D. H. Hayden. 2,639,587, May 26.
Protector: *See*—
Hinged light bulb protector.
Pulling implement. L. Haubert. 2,639,890, May 26.
Pulping process, Two-stage. A. R. Sloman. 2,639,987, May 26.
Pulverulent compositions and manufacture thereof, Stabilized. E. W. Tillotson. 2,639,992, May 26.
Pump: *See*—
Liquid pump.
Variable vacuum and pressure rotary pump.
Pump. D. H. Bierman and J. A. Jawett. 2,639,838, May 26.
Pump or motor. R. Hadekel. 2,639,673, May 26.
Pump unit for liquid dispensing apparatus, Self-priming centrifugal. B. Wagner. 2,639,671, May 26.
Pump unloading valve. W. D. Teague, Jr. 2,639,722, May 26.
Push button construction. H. Young. 2,639,932, May 26.
Pusher for ice and snow. D. R. Dory. 2,639,454, May 26.
Puzzle, Mechanical. S. Reynolds and U. F. Grant. 2,639,923, May 26.
Pyrazoline sulphonic acids. J. D. Kendall and G. F. Duffin. 2,640,056, May 26.
Rack: *See*—
Apparel rack.
Baggage rack.
Bicycle rack.
Clothes drying rack.
Tool rack.
Radiator, Automobile. F. M. Young. 2,639,899, May 26.
Radiator mounted on pipe, Simplified space heating. H. G. Schaefer. 2,639,900, May 26.
Radio direction and distance finding system, Combined. C. W. Earp and R. F. Cleaver. 2,640,191, May 26.
Railroad car moving jack. J. Kliness. 2,639,888, May 26.
Rake, Side delivery. C. B. Richey. 2,639,574–5, May 26.
Ramp unit, Dock loading. R. C. Ramer. 2,639,450, May 26.
Rapid searching thermal automatic frequency control. H. Wallman. 2,640,157, May 26.
Reaction products of a polyhalogenated compound and a triazine derivative and preparing the same. J. T. Thurston. 2,640,047, May 26.
Reaction products of an aldehyde and an aldehyde-reactable composition comprising the condensation product of a polyhalogenated compound and a triazine derivative. J. T. Thurston. 2,640,046, May 26.
Reactions of heterocyclic compounds with unsaturated carbonyl compounds. I. D. Webb and G. T. Borcherdt. 2,640,057, May 26.
Receptacle for irrigating intestinal tract of colostomy patients. G. C. Smith and E. S. Fuller. 2,639,711, May 26.
Receptacle support. M. Pierce. 2,639,878, May 26.
Reciprocator. F. L. Bamford. 2,639,620, May 26.
Recorder, Multiple diagram-frame. G. Keinath. 2,639,964, May 26.
Recording system. A. L. Holcomb. 2,639,965, May 26.
Reel: *See*—
Solenoid controlled cord Stock reel.
reel.
Reel device, Film. N. J. Randazzo. 2,639,915, May 26.
Reel for gathering low lying crop. G. T. Greene. 2,639,570, May 26.
Reflector for controlling at a predetermined angle direct and indirect rays from a light source. S. McCandless. 2,640,148, May 26.
Refrigerator having refrigerant cooled liner. L. A. Philipp. 2,639,592, May 26.
Refrigerator insulation. R. E. Deutgen. 2,639,593, May 26.
Register, Hot-air. L. A. Whitehead. 2,639,655, May 26.
Regulator: *See*—
Flow regulator.
Reinforced concrete pipe. W. A. Whiting. 2,639,731, May 26.
Relief device for power presses. P. G. Pater. 2,639,619, May 26.
Remotely controlled toy car. F. J. Pastorius. 2,639,545, May 26.
Removing sulfur from petroleum hydrocarbons. C. O. Hoover. 2,640,010, May 26.
Resilient shock absorbing support for vehicle saddles, Adjustable. F. von Szilagyi. 2,639,760, May 26.
Resins capable of producing viscous aqueous solutions and the manufacture thereof. J. C. Williams. 2,640,039, May 26.
Ring counter, Magnetic. G. J. Giel, Jr., and M. C. Burns. 2,640,164, May 26.
Roll apparatus for localized embossing. F. A. Sunderhauf and J. C. G'Hear. 2,639,660, May 26.
Rotary rock drilling bit. D. H. Francis. 2,639,896, May 26.
Rotative wing aircraft. W. E. Hunt. 2,639,775, May 26.
Rotor construction for compressors and turbines. W. A. Ledwith. 2,639,885, May 26.
Rotor with tilting hub and damper control of blade swinging, Aircraft. P. H. Stanley. 2,639,776, May 26.
Runway construction, Prefabricated. A. P. Robishaw. 2,639,650, May 26.
Rural mailbox signal. S. H. Thomas. 2,639,856, May 26.
Sander, Oscillating. K. C. Atkin. 2,639,564, May 26.
Sandwich machine. S. F. Anderson. 2,639,677, May 26.
Saw, Motor driven reciprocating. H. S. Forsberg. 2,639,737, May 26.
Sawdust drying apparatus. J. R. Hecht. 2,639,911, May 26.
Scaffold, Portable traveling. C. C. Wheeler. 2,639,950, May 26.
Scaffold, Swing stage. R. Allenbaugh. 2,639,951, May 26.
Scale, Weighing. A. G. Brown. 2,639,912, May 26.
Scraper-type cultivator tool. T. A. and E. N. Baunsgard. 2,639,654, May 26.
Screen insert for storm windows. W. M. Krantz. 2,639,769, May 26.
Sculling apparatus. G. Rauglas. 2,639,684, May 26.
Seal for crankcase gaskets, Holding. C. N. Bergstrom. 2,639,832, May 26.
Sealed bearing. H. L. Potter. 2,639,954, May 26.
Sealing ampoules, Method of and apparatus for. F. W. Zons. 2,639,554, May 26.
Sealing device. C. F. Robbins. 2,639,928, May 26.
Secondary emitter and manufacture. H. Jacobs, G. Hess, and B. Wolk. 2,639,963, May 26.
Seed treater. C. C. Calkins. 2,639,836, May 26.
Seismic surveying. A. F. Haasbrook. 2,640,186–7, May 26.
Self-lubricating universal bearing. K. E. Whiteley. 2,639,952, May 26.
Separating hydrogen fluoride from chlorodifluoromethane. R. H. Baldwin. 2,640,086, May 26.
Separating uranium from its ores. A. H. A. Ross, R. H. Farmer, and A. G. W. Lamont. 2,639,974, May 26.
Separation of hydrocarbons. O. L. Polly and C. H. O. Berg. 2,639,782, May 26.
Separation of sulfur dioxide and chlorine with antimony trichloride. K. W. Guebert. 2,639,976, May 26.
Separator: *See*—
Synchronizing signal separator.
Servo mechanism, Hydraulic. E. E. Strief. 2,639,721, May 26.
Sewage sludge digestion process. P. D. McNamee, A. B. Fay, and T. S. Derry. 2,640,027, May 26.
Sewing-machine attachment. B. A. Taylor. 2,639,682, May 26.
Sewing machine, Portable. H. W. Huntington. 2,639,683, May 26.
Shackle for hanging poultry, Rigid type. R. S. Zebarth. 2,639,463, May 26.
Shears, Barber. A. J. May. 2,639,504, May 26.
Sheave and adapter. J. C. P. Harris and L. P. Starnes. 2,639,621, May 26.
Sheave block with adjustable eye. R. Y. Barkley. 2,639,891, May 26.
Sheet marking and measuring apparatus. A. H. Bates, Jr., N. Bobo, C. F. Mullinax, and W. W. Macomson. 2,639,568, May 26.
Sheet tearing device. N. H. Sandberg and H. O. Ronning. 2,639,772, May 26.
Shelving, Knockdown. S. H. Marks. 2,639,819, May 26.
Shirt, Zipper. M. L. Kapinn. 2,639,432, May 26.
Shock absorbing connections, Making. H. L. Hartzell. 2,639,496, May 26.
Shock absorbing mechanism for railway draft riggings, Friction. V. S. Danielson. 2,639,821, May 26.
Shoelace. G. C. Lester. 2,639,481, May 26.
Shoe rest and support, Automatic. M. McCormick. 2,639,457, May 26.
Shoulder support for telephone hand sets. A. and E. A. Samsky. 2,640,111, May 26.
Shrouded wheel. A. Townhill and W. P. Holcombe. 2,639,886, May 26.
Sign: *See*—
Display sign.
Signal: *See*—
Rural mailbox signal.
Signal device, Flat tire. J. R. Bradford, Jr. 2,640,119, May 26.
Signaling system, Radiant energy. R. W. Carter, M. G. Currier, W. G. Emig, and K. V. Glentzer. 2,640,193, May 26.
Silicone rubber ironing pad. L. N. Polk and J. H. Coulliette. 2,639,519, May 26.
Simulated golf club beverage and cup container. E. Merahn. 2,639,804, May 26.
Slide hinder. H. H. Engemann. 2,639,531, May 26.
Slide detecting apparatus. L. D. Cole. 2,640,131, May 26.
Small gun for perforating casing in oil wells. T. A. Huber. 2,639,770, May 26.
Smoke detector relay and resetting mechanism. C. N. Cahnsac and F. B. Allen. 2,640,123, May 26.
Sock drier. L. M. Lake. 2,639,845, May 26.
Socket for well tubes, Safety rope. C. R. Pigott. 2,639,893, May 26.

Sofa and double bed combination. H. S. Vakassian. 2,639,441, May 26.
Sofa and table, Combination. J. M. Schensinger and W. Balcher. 2,639,761, May 26.
Soilless culture. G. J. H. E. Wubben and A. A. Steiner. 2,639,549, May 26.
Solder terminal, Resilient. M. Alden. 2,640,185, May 26.
Sole rounding and channeling machine. C. W. Baker. 2,639,449, May 26.
Solenoid controlled cord reel. R. F. Becker. 2,640,113, May 26.
Sound reproducing device. E. B. Bush. 2,639,924, May 26.
Speed and voltage control of stator fed alternating current commutator motors and frequency converters. B. Schwarz. 2,640,178, May 26.
Spindle adapter for high-speed strand twisting machines. E. Bay. 2,639,576, May 26.
Spirit level with reflecting means. W. Garrison. 2,639,514, May 26.
Spool and thread package thereon, Multiple. P. J. Bochan. 2,639,866, May 26.
Spray carbonator assembly, Molecular. A. J. Cohen, S. Levine, M. Caminear, and S. S. Price. 2,639,946, May 26.
Spraying machine, Orchard. R. H. Fish. 2,639,940, May 26.
Spreader for milk can filling means. G. R. Duncan. 2,639,851, May 26.
Spreading attachment for lawn mowers. R. N. Kelly. 2,639,571, May 26.
Spring: *See*—
Wire spring.
Spring and weight testing device. W. Richmond. 2,639,613, May 26.
Spring group. D. J. McCullough. 2,639,914, May 26.
Sprinkler head and system, Self-elevating. W. B. Glynn. 2,639,941, May 26.
Stabilized wax composition and making the same, Non-sweating. R. L. Lehman. 2,640,040, May 26.
Stand: *See*—
Barber's clippers stand.
Christmas tree stand.
Missal stand.
Portable music stand.
Steam distillation. R. W. Heath. 2,640,018, May 26.
Stock reel. F. Koch. 2,639,871, May 26.
Stop device for carding machines, Automatic. W. C. White. 2,639,470, May 26.
Stop motion mechanism for looms. W. P. Brock and C. Neal. 2,639,734, May 26.
Stove, Miniature knockdown. P. S. Gilchrist, Jr. 2,639,704, May 26.
Straight beam clamping and like means with adjustable and interchangeable pads. B. W. Dawkins. 2,639,745, May 26.
Strap connector. P. Magid. 2,639,480, May 26.
Strip insulation and manufacture. W. G. Van Saun. 2,640,004, May 26.
Structural joint. J. F. Korsberg, F. T. Gustafson, and G. Snyder. 2,639,788, May 26.
Substantially pure and anhydrous alcohols by distillation, Production of. A. R. Graff. 2,640,017, May 26.
Succinhydrazides. W. B. Ligett, R. D. Closson, and C. N. Wolf. 2,640,005, May 26.
Support: *See*—
Receptacle support.
Support for bed framework. E. J. Strybel. 2,639,443, May 26.
Suppression of spurious oscillations. R. T. Cavanagh. 2,640,173, May 26.
Switch: *See*—
Centrifugal switch.
Combined starting and protective switch.
Electrical switch.
Multiple time switch.
Temperature responsive switch.
Switch mechanism, Transitory latching. J. A. Oppel and E. J. Frank. 2,640,122, May 26.
Switching assembly for electrical prospecting, Precision. K. C. Crumrine. 2,640,097, May 26.
Switching system, Automatic. W. H. Cuttino and L. G. Tubbs. 2,640,182, May 26.
Synchronizing signal separator. D. R. Clements. 2,640,103, May 26.
Synthesis of diamines. R. C. Schreyer. 2,640,082, May 26.
Synthesis of higher aliphatic oxygen-containing compounds. W. F. Gresham and A. J. Hill, Jr. 2,640,074, May 26.
System for measuring the thickness of opaque objects. R. H. Rines. 2,640,190, May 26.
Table: *See*—
Collapsible hinged table.
Tank for seed treating machines, Slurry. M. W. Guyer. 2,639,812, May 26.
Tank for testing the bearing value of a column, Dead weight. I. W. Alcorn. 2,639,611, May 26.
Tanning agents and preparation. W. B. Stoddard, Jr. 2,639,968, May 26.
Tape reel mounting. H. W. Lindsay. 2,639,867, May 26.
Taper gauge. B. A. Whiteman. 2,639,511, May 26.
Teeing machine, Coin controlled ball. J. Mosel. 2,639,919, May 26.
Telephone pay station circuit. C. E. Lomax and R. J. Gallagher. 2,640,107, May 26.
Telescopic steering column. H. V. Snyder. 2,639,626, May 26.
Temperature control system. R. W. Ketchledge. 2,640,137, May 26.
Temperature responsive switch. G. A. Starbird. 2,640,129, May 26.
Tensiometer, Differential. H. Allen. 2,639,612, May 26.
Testing rotors, Means for. L. C. Packer, R. H. Cross, and G. E. Monchamp. 2,640,100, May 26.
Textile fabric, Producing a. W. E. Stanley and F. C. Brown. 2,639,488, May 26.
Textile fibers from bast fiber material by alkaline digestion, Production of. J. J. Zeehuisen. 2,639,988, May 26.
Thermocouple cold-end compensator. R. W. Gilbert. 2,640,089, May 26.
Thermometer case with means for swinging the same. R. L. Papermaster. 2,639,614, May 26.
Thermostat. F. and J. Reingruber. 2,640,130, May 26.
Thread advancing roll, Adjustable. H. J. McDermott. 2,639,486, May 26.
Through-wall flashing and receiver for side-wall flashing, Combination. E. J. Finn. 2,639,679, May 26.
Thrust coupling. G. C. Werner. 2,639,595, May 26.
Tie seal, Adhesive. C. S. Dahm. 2,639,479, May 26.
Tile and beam floor construction, Preformed. C. L. Sanford. 2,639,607, May 26.
Time keeping device motor. M. Morrison. 2,640,175, May 26.
Time-pressure control. H. S. King. 2,640,121, May 26.
Timer, Ignition. J. W. Dyer and R. A. Wilkins. 2,640,116, May 26.
Tire pressure indicator. H. G. Benz. 2,639,685, May 26.
Toggle-actuated carriage bolt wrench. C. Gould. 2,639,638, May 26.
Tool: *See*—
Bearing insert removing and applying tool.
Camber adjusting tool.
Garden tool.
Machine tool.
Scraper-type cultivator tool.
Tool feed, Machine. F. M. Tomlinson. 2,639,736, May 26.
Tool for crimping ferrules. J. C. Macy. 2,639,754, May 26.
Tool rack. A. E. Paluck. 2,639,815, May 26.
Tool such as boring and milling, Machine. C. W. Berthiez. 2,639,644, May 26.
Top, Spinning. N. J. Saunders. 2,639,921, May 26.
Top with bead chain swivel, Spinning. G. D. Shockey. 2,639,546, May 26.
Torque converter for mixing drums. R. J. Kacena. 2,639,903, May 26.
Tower packing. M. Leva. 2,639,909, May 26.
Toy, Child's pounding. H. E. Miller. 2,639,542, May 26.
Toy engine kit. D. W. Coffin. 2,639,544, May 26.
Toy gun and ammunition, Smoke-simulating. J. Abler. 2,639,543, May 26.
Toy railway auxiliary. M. R. Hall. 2,639,548, May 26.
Transfer machine. H. E. Rose, E. R. Motch, Jr., and D. S. Rana. 2,639,491, May 26.
Transfer machine. H. E. Rose and M. B. Sampson. 2,639,493, May 26.
Transformer cooling system control. A. V. Hughes. 2,640,101, May 26.
Transformer, Current. C. A. Woods, Jr., and C. C. Sterrett. 2,640,102, May 26.
Transitory memory circuits. R. Serrell. 2,639,859, May 26.
Transmission. A. B. Wiser. 2,639,629, May 26.
Transmission and clutch for clothes washers. J. W. McNairy. 2,639,618, May 26.
Transmission, Rotary pump and motor hydraulic. T. Möller. 2,639,586, May 26.
Transmission system, Electronic. L. Espenschied and A. M. Skellett. 2,640,162, May 26.
Transmission, Yieldable power. L. W. Falk. 2,639,624, May 26.
Trap: *See*—
Crab trap.
Trap. G. W. Oakes. 2,639,539, May 26.
Treating and harvesting of forage crops and the like, S. D. Russell. 2,639,553, May 26.
Treatment of cellulosic pulps. J. N. Conover. 2,639,989, May 26.
Treatment of cracked hydrocarbon distillates. C. Wankat and E. Y. Titus. 2,640,012, May 26.
Treatment of hydrocarbons with hydrogen. C. W. Montgomery and C. S. Brown. 2,640,009, May 26.
Treatment of polyvinyl alcohol fibers by dielectric heating. T. Tomonari. 2,639,970, May 26.
Trench roller, Motorized. F. J. Wright. 2,639,652, May 26.
Trigger circuit. R. J. McCurdy. 2,640,153, May 26.
Trousers hanger. E. L. Blackman. 2,639,847, May 26.
Truck having pivotally mounted extension for high level dumping, Fork. G. R. Dempster and H. W. Jones. 2,639,829, May 26.
Tube: *See*—
Electron tube.
Hyperfrequency vacuum tube.
Ultrahigh-frequency electron tube.
Tuner. W. I. Wu. 2,640,150, May 26.
Two-cycle internal-combustion engine. H. V. Stewart. 2,639,696, May 26.

Typewriter page bottom margin indicator. L. C. Jiménes. 2,639,798, May 26.
Ultrahigh-frequency electron tube. E. Touraton and R. Zwobada. 2,640,112, May 26.
Undergarment, Man's. F. Chatfield. 2,639,708, May 26.
Unloading extractor. J. B. Sando and W. F. Gayring. 2,639,811, May 26.
Urinalysis device. W. Goodman. 2,639,979, May 26.
Vacuum seal. E. Schwarz. 2,639,833, May 26.
Valeric acid derivatives. K. Klager. 2,640,072, May 26.
Valve: *See*—
Combination fueling and relief valve.
Fluid valve.
Four-way valve.
Multiway valve.
Pilot operated regulating valve.
Pump unloading valve.
Valve. C. W. Conrad. 2,639,882, May 26.
Valve and system, Hydraulic control. R. S. Miller and G. W. Sinclair. 2,639,693, May 26.
Valve for pumps and the like, Pilot operated relief. J. R. Albright. 2,639,725, May 26.
Valveless pulse jet engine. J. L. Stuart. 2,639,580, May 26.
Valve seat reamer. A. C. Brookey. 2,639,642, May 26.
Valve selector and actuator for fluid flow manifolds. P. C. Tulumello and D. Franceschi. 2,639,729, May 26.
Valve structure. W. A. Ray. 2,639,727, May 26.
Valve unit, Lighter. P. L. Hollman. 2,639,765, May 26.
Vanillin and its homologues, Manufacture of. J. Kamlet. 2,640,083, May 26.
Vapor electric device cathode. G. Lewin and E. A. Goldman. 2,640,171, May 26.
Vapor generator. L. H. Coykendall. 2,639,695, May 26.
Variable vacuum and pressure rotary pump. W. T. Daniels. 2,639,855, May 26.
Vehicle body pillar and trim assembly. E. C. Pickard. 2,639,938, May 26.
Vehicle light controlling lens panel. A. L. Arenberg. 2,640,149, May 26.
Vehicle wheel ornamental trim ring construction. R. S. Grimshaw. 2,639,948, May 26.
Vending machine cabinet. B. C. Case. 2,639,961, May 26.
Ventilating system for sealed ignition distributors and engine crankcases. M. G. Bales. 2,639,701, May 26.
Ventilator for water closets. C. J. Majauskas. 2,639,440, May 26.
Vessel, Liquid weighing and dispensing. H. A. Wons. 2,639,840, May 26.
Vessel with turbine for rotating container while heating or cooling. J. B. Prather. 2,639,897, May 26.
Volume control. F. H. Owens. 2,640,104, May 26.
Vulcanization accelerators. H. D. Glenn and I. Mankowich. 2,640,088, May 26.
Wall construction, including upper and lower panels and diagonal strips joining the same. A. S. Neves. 2,639,471, May 26.
Washer: *See*—
Car, floor, and wall washer. Portable glass washer.
Wave transmission system and synthesizing a given electrical characteristic. W. R. Bennett. 2,640,105, May 26.
Weaving machinery and control. A. Moessinger. 2,639,732, May 26.
Wedge-heel shaping machine. G. R. Constantine and A. F. Ball. 2,639,742, May 26.
Welding apparatus. J. R. Parsons. 2,640,180, May 26.
Welding of metal, Cold. A. B. Sowter. 2,639,633, May 26.
Wheel: *See*—
Contact wheel. Shrouded wheel.
Metallic resilient wheel.
Wheel lifter. R. A. Swinamer. 2,639,934, May 26.
White zinc oxide, starting from carbonated zinc ores, Preparation of. F. A. Muller and R. Saffores. 2,639,975, May 26.
Winding apparatus. Strip material. L. A. Trofimov. 2,639,868, May 26.
Winding precision resistors, Method of and apparatus for. H. E. Hale. 2,639,864, May 26.
Window construction. A. W. Grist. 2,639,791, May 26.
Window construction. J. M. Gwynne. 2,639,792, May 26.
Window construction, Storm. J. M. Winston. 2,639,768, May 26.
Window, Emergency exit. J. G. Reitzel. 2,639,790, May 26.
Windshield wiper, Rotary. G. T. Schwarzmann. 2,639,455, May 26.
Wiper-switching selector. R. Taylor. 2,640,108, May 26.
Wire package. J. H. Smith. 2,639,873, May 26.
Wire spring. W. H. Neely. 2,639,763, May 26.
Wire straightener. R. D. Heller. 2,639,758, May 26.
Woodworking and finishing machine, Self-propelled. W. G. Taylor and C. W. Campbell. 2,639,741, May 26.
Wrapping machine. L. Brook. 2,639,568, May 26.
Wrench: *See*—
Gear actuated predetermined torque release wrench.
Power - operated, predetermined torque release wrench.
Toggle - actuated carriage bolt wrench.
Yarn package formation. O. A. Hitt and M. Klachif. 2,639,872, May 26.

CLASSIFICATION OF PATENTS

ISSUED MAY 26, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

1— 8. 1: 2,639,427
2— 3: 2,639,428
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U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ABREIT ET AL.

No. 5913. Decided February 6, 1953.

[201 F.2d 923; 96 USPQ 397]

1. PATENTABILITY—PROCESS—MAY BE PATENTABLE OVER APPARATUS WHICH CAN PERFORM PROCESS.

Rule restated that the mere fact that there is, in the prior art, a machine that will perform a claimed process is not to be considered, in itself, grounds for rejecting the claimed process.

2. SAME—APPARATUS—USE LIMITATIONS WILL NOT SUSTAIN APPARATUS CLAIM.

Since the apparatus claims are directly readable on the reference except for the fact that the first chamber in applicant's furnace is termed a "melting" zone and the second chamber is called a "refining" zone, *Held* that, although the terms "melting" and "refining" are not appropriately applied to the reference chambers, it is clear the terms are mere use limitations, which will not suffice to sustain the patentability of a claim.

3. SAME—PARTICULAR SUBJECT MATTER—METHOD AND APPARATUS FOR MAKING GLASS.

Certain claims to a method of melting and refining glass making materials *Held* to define invention over the prior art and certain other claims to an apparatus for making glass *Held* properly rejected as unpatentable over the prior art.

APPEAL from Patent Office. Serial No. 603,727.

MODIFIED.

Dale A. Bauer and *John L. Seymour* for appellants.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

COLE, *J.*:

This litigation involves a patent application relating to a method and apparatus for manufacturing glass, and particularly to the heating process required to melt the glass making materials and refine the glass.

The invention claimed by the applicants has, as its objective, the elimination of coloration which is known to occur in glass having a high melting point that has been heated by passing an electric current through the glass bath between submerged graphite electrodes. The theories advanced in explanation of the coloration phenomenon are somewhat vague; yet it seems that graphite, when in contact with hot glass, has a tendency to color the glass by its reducing action on some elements of the glass constituents.

Contending that it was not previously known that coloration was related to that specific degree of temperature called fining (refining), the applicants have proposed a limited use of the graphite electrodes during the heating process, terminating contact between glass and electrodes prior to the refining of the glass. Thus, the electrodes are present in the glass mass only during the melting of the glass raw materials and only at temperatures prevailing in the melting zone of the furnace. Defining the period of melting in chemical terms, the applicants state that when the glass making materials are introduced into the glass furnace, said materials containing oxidizing substances, they either prevent, for a time, the formation of compounds coloring the glass, or else, by combining with such compounds, yield a non-colored product; that when the oxidizing materials are exhausted, the graphite will color the glass; and that as the exhaustion of such materials and the end of the melting period are concurrent events, suppression of the electrodes from the glass at this critical time renders the product color free.

As the terms "melting" and "fining" (refining) have specific meaning in the glass industry, and will be referred to frequently in the course of this opinion, it is well for us briefly to define them as those terms are known in the art. "Melting" has reference to the application of heat to the solid glass making materials whereby they are fused and brought to a molten condition. As the aforesaid materials still contain occluded air, bubbles, unmelted solid particles, etc., which have not been melted by the end of the melting operation, the glass is subjected to a "fining" (refining) process whereby the temperature in the furnace is necessarily raised to free the glass of these impurities. There is some difference of opinion with respect to the exact temperatures necessary to carry out each of the above operations. The applicants state that melting and refining temperatures are approximately 1100–1300 degrees and about 1450 degrees centigrade, respectively. The Patent Office claims that there is a wide variation in melting or fining temperatures depending on the varying proportion or ingredients of the glass bath. In any event, it is apparent that the refining temperature is the very highest produced in the furnace.

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While the applicants state that their study of the coloration problem was primarily concerned with glass melting at high temperatures and glass having a low expansion coefficient and containing boric acid, they further indicate that the result achieved, i. e., the production of colorless glass, is also applicable in imparting an extra-white quality to ordinary glass melting at relatively lower temperatures.

In proceedings before the United States Patent Office, the Board of Appeals affirmed the decision of the Primary Examiner in rejecting applicants' claims 3, 4, 5, 6, 20, 23, 24, 27, 28, and 30–37 inclusive. Patent number 1,944,855, dated January 23, 1934, issued to the inventor Wadman, is the sole reference relied on in the rejection of all of the claims with the exception of claims 3, 4, 35, and 37 which were considered as being directed to non-elected species. Those claims, consequently, are not here to be considered on the merits.

It is significant to note from the very outset that the applicants not only vigorously deny the presence of an anticipation, but also contend that the disclosures of the reference patent are diametrically opposed to their own. Further, it is asserted that both the Primary Examiner and the Board of Appeals failed wholly to understand the novelty of applicants' invention and also placed an erroneous interpretation on the Wadman reference.

Claim 20 is deemed to be illustrative of applicants' process and claim 33 representative of the apparatus. They read as follows:

> 20. A method for the manufacture of a glass having a low expansion coefficient containing boric acid which comprises heating the glass mass by an electric current passing through it and supplied by electrodes in contact with it, limiting the time of the contact of the glass with the electrodes to a part of the melting operation, then the contact of the glass with the electrodes being ended, and continuing the heating of the glass mass by any other heating means, until it is refined.
>
> 33. In an apparatus for the continuous manufacture of glass, a tank comprising a melting zone and a refining zone, electrodes localized in the melting zone of said tank and in contact with the glass bath in said zone, means to supply an electric current to said electrodes, other heating means in said melting zone, means interposed between the melting zone and the refining zone and provided with an opening for the passage of the glass flowing from said melting zone to said refining zone, said opening being of sufficiently small size, so that the glass flow from the melting zone to the refining zone due to the withdrawal of the finished glass from the tank gives no room for a flow of refined glass back to the melting zone, and burners in the refining zone constructed and arranged for refining the glass.

It may thus be seen that a melting and a refining zone is provided with localized electrodes and "other heating means" (flame ports) utilized to heat the glass materials during the melting operation. Contact between electrodes and glass ends prior to fining. Burners in the refining zone supply heating means necessary to the refining phase of the manufacture. A barrier separates the two zones and is provided with a small opening whereby the melted glass moves into the refining zone, and means are also provided to insure against backflow of refined glass.

As we have previously stated, the applicants claim to set forth a truly novel invention, the core of which is founded on the proposition that, unknown to the prior art, graphite electrodes and molten glass are incompatible after the completion of the melting operation and consequently must be separated from each other to avoid coloring the glass.

In their brief, the applicants contend that the reference patent is not concerned with coloration of hot glass by electrodes; that the reference patent does not recognize the existence of the problem of glass coloration by electrodes; that Wadman shows glass undergoing fining in the presence of electrodes, and electrodes in the primary fining zones of his furnace, and that therefore the teachings of Wadman are positively conducive to the production of colored glass; and that Wadman does not suggest any method or apparatus by which coloration of glass can be prevented.

We are of the opinion that some of the applicants' contentions are meritorious, as subsequently will be shown.

Considering now the detailed specification and drawings of the Wadman patent, it may be said that Wadman describes two embodiments of his invention, that of Figure 1 and that of Figure 2. The Primary Examiner and the Board of Appeals dealt principally with the invention of Figure 1 and stated, in effect, that the patent consists of a tank having a melting zone and a refining zone, designated chambers 10 and 11 respectively, with electrodes localized in the melting zone and in contact with the glass bath therein. Other heating means are also provided in this zone and are located above the surface of the molten glass. Certain of the burners in the melting zone are to the right of the electrodes and in the line of flow of glass from melting zone to refining zone. A barrier is interposed between the two zones and is provided with an opening for the passage of the glass flowing from the melting zone to the refining zone. The prevention of backflow of refined glass to the melting zone is dependent upon the rate of withdrawal of finished glass from the so-called refining zone. While the refining zone does not show any heating means therein, the patent states that the glass may be further refined in chamber 11 by any suitable means. The applicants emphatically deny that chamber 10 is properly termed a melting zone and that chamber 11 is a refining zone, as it is their belief that a combination of melting and fining occurs in chamber 10. As will later be developed, this interpretation is of critical concern.

The Board of Appeals, in holding method claims 5, 6, 20, 23, 24, 27, 28, 30, and 31 to be unpatentable over Wadman, stated:

> • • • The process is as obviously performed in the operation of the Wadman apparatus as in the operation of the apparatus disclosed in the application on appeal. • • •

With this conclusion, we are unable to agree.

Our attention has been invited to several pertinent paragraphs of the Wadman patent reading as follows:

> • • • At present, it appears to be more economical to raise the temperature of the glass through the lower ranges of temperature by application of combustion heat than by electrically supplied heat.
>
> • • • • • • •
>
> One of the objects of my present invention is, therefore, to provide a separate and independent source of heat, preferably electrical, *for supplying the last increment of heat to bring the glass from a basic temperature to which the glass may economically be raised by the combustion supplied heat up to the desired high temperature.* (Italics ours.)
>
> • • • • • • •
>
> • • • My present invention thus provides a method and apparatus usable in the melting and refining of glass in which combustion supplied heat is utilized for melting the glass making materials and raising the temperature of the glass to a given basic temperature *and in which the remaining heat necessary for raising the glass to the highest desired temperature in the furnace is supplied by the use of electricity*, thus effecting an economy in the melting of glass not possible in prior devices and by prior methods. (Italics ours.)

The quoted language unequivocally expresses a desire to effect an economy in the matter of heating the glass and advocates the use of electricity "for supplying the last increment of heat to bring the glass from a basic temperature to which the glass may economically be raised by the combustion supplied heat up to the desired high temperature." It is not affirmatively stated that fining temperatures are reached by electrical means. The inference to be gathered from the language, however, suggests that combustion supplied heat melts the glass, at least in part, and that the uppermost furnace temperatures necessary thereafter are to be supplied by electricity. That fining temperatures are the very hottest produced in the glass furnace is readily conceded by both parties. Applicants argue convincingly that the primary emphasis of the reference patent is diametrically opposed to their own invention in that Wadman is proposing the use of electrodes to obtain the hottest temperature whereas the application on appeal denounces such practice as productive of colored glass. Had Wadman operated his electrodes in such a way that the glass and electrodes were out of contact with each other during the refining operation, the method claims of the applicants herein would have been met. That Wadman's objectives are contrary to this mode of operation is, in our opinion, clear.

A further object of the patent in reference is expressed in substantially similar terms although it deals with the "pull" on the tank, i. e., variation in the amount of glass which is drawn from the tank in any given unit of time. It reads as follows:

> A further object of this invention, therefore, is to provide a method of and apparatus for making glass in which combustion heating means are employed always at a given unchanging rate of heat supply, and any variations in the heat required, due to variations in the pull on the tank, are compensated for by independently supplied heat, preferably heat supplied by passing an electric current through the glass at a desired point or points in the tank between spaced electrodes. In this way it is possible to design combustion-heating means, operative always at their maximum efficiency, and to take care of variations with electric current supply, which has a greater degree of flexibility and is always effective at substantially the same efficiency.

The above quoted paragraph seems to indicate that when the pull on the tank increases beyond the point of efficiency of flame heat, the electrodes would be utilized to provide the additional heat necessary to compensate therefor. Quite obviously, Wadman's intended purpose here is to use his electrodes to obtain temperature ranges above the hottest temperature supplied by combustion heating means.

Proceeding further, we encounter the following in the reference patent:

> It is also contemplated that the heat supplied by combustion may be sufficient merely to heat the glass to a certain given temperature, for example 2300° F. and that sufficient additional heat will be supplied to the glass by passing an electric current therethrough to raise the temperature of the glass to the desired working or refining temperature, for example, 2650° F.

The applicants have placed special emphasis on the significance of this language as supporting their position, and state that 2300 degrees Fahrenheit is 1260 degrees centigrade and within the range of melting as previously declared by applicants; and that 2650 degrees Fahrenheit is 1450 degrees centigrade and is the exact temperature declared by applicants to be the fining temperature and also to be the highest temperature ever produced in a glass furnace. Since the latter is supplied by electricity, the applicants feel that it is apparent that Wadman intended that his electrodes be present during the fining stage of the glass manufacture, and aid in that operation, at least in part.

In furtherance of this reasoning, it would thus seem manifestly certain that if the reference patent does, in fact, show glass undergoing fining in the presence of electrodes, then in the normal and usual operation of the Wadman invention, coloration will result if applicants' statement of the phenomenon, which has not been challenged by the Patent Office, is to be accepted as correct.

In conformity with Wadman's objectives, previously set forth, we believe that the Board was in error in designating chamber 10 a melting chamber and chamber 11 a refining chamber. We further believe that chamber 10 is more aptly termed a combined melting-fining zone for it appears that the patentee primarily limits his fining operation to chamber 10. This conclusion is supported, we think, by the following from the reference patent:

> • • • The glass in the chamber 11 *may be further refined* or planed in any suitable or desired manner • • • (Italics ours.)

Glass, to be further refined, certainly implies that it must have been previously refined to some extent. The language suggests that, only if necessary, the glass can be refined to a greater extent than has already been done. Fining of the glass is not a "may" or "may not" proposition. It is, in the first instance, an absolute necessity. The fact that chamber 11 is totally devoid of any heating means whatsoever equally indicates that Wadman primarily intended his fining operation to be wholly, or at least substantially, completed prior to the arrival of the glass in chamber 11. All of the heating means are located in chamber 10. The glass obviously is brought to fining temperature in that zone. It is true that Wadman states that if further refining is necessary, chamber 11 can be equipped with any suitable heating means; this, however, is certainly not a rational ground upon which to conclude that all, or substantially all,

fining is accomplished in chamber 11, and thereby term that zone a refining zone. We believe, as do the applicants, that chamber 11 is more appropriately designated as a working chamber wherein, in the usual course of Wadman's procedure, the glass is cooled down preparatory to use.

[1] In the course of the Board's opinion, it was also stated:

> • • • The disclosures of the patent is applicable to these [method] claims generally in the same way that it is applied to the apparatus claims. • • •

Just what the Board meant by the above statement is not entirely clear to us; however, it is now considered basic and fundamental in the law of patents that the mere fact that there is, in the prior art, a machine that will perform a claimed process is not to be considered, in itself, grounds for rejecting the claimed process. *In re Osplack*, 39 CCPA (Patents) 932, 195 F.(2d) 921, 93 USPQ 306.

Claim 1 of the Wadman patent is drawn to a method of making glass. It reads as follows:

> 1. The method of making glass, which comprises supplying glass making materials to a bath of molten glass at a rate substantially equal to the rate of withdrawal of finished glass from the bath so as to maintain the contents of the bath and the level of the surface thereof substantially constant, melting said materials to form glass and refining the melted glass by applying heat of combustion to the surface of the bath to provide a basic temperature lower than the maximum desired for the glass during its transition to refined and finished glass, *supplying the last increment of heat necessary to bring the molten glass up to the maximum desired temperature by impressing an alternating current of electricity upon electrodes which are always completely submerged by the molten glass*, and maintaining the intensity of the electric current so supplied sufficiently low that arcing between the electrodes is positively prevented. (Italics ours.)

In these words, it is believed that Wadman conclusively contemplates the presence of his electrodes during the refining of the glass. They are always completely submerged by the molten glass and are employed to produce fining temperatures.

In oral argument before us, and in his brief, counsel for the Commissioner has stated that claim 5 of the Wadman patent specifically relates that the inventor achieves the result of non-colored glass. Claim 5 calls for the combination of combustion and electrode heating means and describes the current supply for the electrodes as being effective to supply current to the electrodes at an intensity so low that arcing between the electrodes and consequent disintegration thereof will be prevented. The effect achieved thereby is alleged to be "clear, colorless glass."

The Primary Examiner and the Board did not rely upon, or even mention, the above in their reasons of rejection. It seems entirely clear that Wadman was concerned with electrode disintegration due to arcing, the inventor apparently feeling that by preventing arcing, he also prevented coloration. Throughout these proceedings, we have been considering the problem of coloration of glass in those instances wherein electrodes are used to heat the glass, the hot glass thereafter (being a conductor) acting as a resistance to carry the current, i. e., the well known Joule effect. The rejection was made out on the basis that the reference patent prevented coloration due to Joule effect.

Certain of the process claims of the applicants mention boric acid as one of the batch ingredients. As this is a standard ingredient used in glass making, the tribunals below, having rejected said claims specifically directed to boric acid, reasoned that because applicants' process was old in the art, the application of an old glass making method to a specific type of glass which is also old in the art would not involve invention. We feel, however, that as applicants' process involves invention over the prior art, the specific claims drawn to boric acid as a raw material used in glass making should be allowed.

Finally, the counsel for the Patent Office has stated in his brief that Wadman did not intend that the glass attain fining temperatures in the presence of the electrodes "since, according to appellants, this necessarily would result in contamination and coloration of the glass." The applicants, however, have repeatedly stated that it was unknown in the prior art that coloration of glass was due to contact of electrodes and glass at fining temperature. A careful analysis of the reference patent justifies the inference that Wadman likewise was without knowledge of coloration due to electrode contact at fining temperature. Wadman's intentions obviously cannot be measured by what was unknown to him at the time he conceived his invention.

Only after the most careful consideration have we found ourselves unable to agree with the concurring opinions of the Primary Examiner and the Board of Appeals in their rejection of the method claims in the application on appeal. We are, of course, not unmindful of the fact that the officials of the Patent Office are most competent and painstaking in their efforts, particularly in those instances involving claims of a technical nature. Our study of the case, however, has led us to firmly believe that the rejection of claims 5, 6, 20, 23, 24, 27, 28, 30, and 31 as unpatentable over Wadman was not proper.

Considering now the particular apparatus conceived by the applicants to carry out the inventive process, it may be said that two types of furnaces are provided, i. e., continuous and discontinuous furnaces. The former relates to the continuous manufacture of glass, day and night, over a period of years; the latter involves a day to day production. The separation of glass and electrodes in the continuous type furnace is brought about by removing the glass from the melting zone and into a separate fining zone. The electrodes in this instance are limited to the melting zone. In the discontinuous type of furnace, the separation is brought about by physically removing the electrodes from the glass prior to fining. All of the apparatus claims of the application relate to the continuous type furnace.

While we have held that the applicants' process is patentable, it does not necessarily follow that the apparatus used to carry out the process is likewise patentable. Except for the fact that the first chamber of the applicants' furnace is termed a "melting" zone and the second chamber is called a "refining" zone, apparatus claims 32, 33, 34, and 36 (claim 33 was thought to be representative and previously set out) of the application are directly readable on the Wadman reference.

It is our opinion that, in all structural respects, the furnace of the applicants and that of the patentee are substantially identical. Each is a two chamber affair. In the first chamber of the applicants' apparatus, i. e., the melting zone, electrodes are localized. The reference patent also discloses electrodes localized in the first chamber. Both set forth other heating means therein, i. e., flame ports or burners. The applicants provide heating means other than electrodes in their second chamber—the refining zone. The patentee discloses that his second chamber may, if necessary, be provided with similar heating means.

While the Board of Appeals described the chambers of Wadman's furnace as a melting chamber and a refining chamber, we felt that the terms were not appropriately applied and, insofar as the process claims were concerned, misdescriptive of the operation performed therein. However, the law is well settled that a limitation reciting only manner of operation or use will not suffice to sustain the patentability of a claim. *In re Bixley*, 39 CCPA (Patents) 982, 197 F.(2d) 355, 94 USPQ 80. That the above discussed limitations of representative claim 33 are merely use limitations, we think is clear. Structurally, the furnaces are substantially identical.

It may further be said that each of the two chambers is provided with a partition or barrier between said chambers with a small opening therein for the passage of the glass. Prevention of backflow of the glass in each instance seems to depend on the rate at which the materials are supplied to the first chamber and the rate at which the finished glass is removed from the second chamber. It is, therefore, apparent that in all structural respects, the apparatus of the reference patent is the same as that disclosed in the application on appeal.

Claim 36 adds a further limitation, as follows:

> • • • a surface channel of small depth below the glass level of the tank connecting the melting zone to the refining zone. • • •

The Board, in rejecting this claim, said:

> • • • Claim 36 differs from claim 33 mainly in specifying that the channel between the zones is "a surface channel of small depth." The channel 12 of the Wadman apparatus has a surface and is of small depth. Furthermore, this feature does not import any invention into claim 36 over the Wadman patent since no new or surprising function has been disclosed as resulting from the use of a channel at the surface of the molten glass instead of a channel below that surface as disclosed in the Wadman patent. Furthermore, the Wadman patent shows a channel at the left of the barrier in the modification shown in Fig. 1 and in Fig. 2 which is at the normal free surface of the molten glass and in the latter the channel is also of small depth as recited in this claim.

With this conclusion, we are in accord.

[3] For the reasons hereinbefore stated, we affirm the decision of the Board of Appeals approving the Examiner's rejection of claims 32, 33, 34, and 36 but reverse its approval of the rejection of claims 5, 6, 20, 23, 24, 27, 28, 30, and 31.

MODIFIED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,017,022, C. K. Roos, Cementitious material, filed Mar. 11, 1953, D. C., N. D. Iowa (Ft. Dodge), Doc. 568, *U. S. Gypsum Co.* v. *Certain-teed Products Corp.*

2,108,727, K. S. Rogers, Mop, D. C., N. D. Ill. (Chicago), Doc. 50c1362, *Arimore Co. et al.* v. *Dayless Mfg. Co., Inc. et al.* Claims 7 and 10 held valid, and infringed by Dayless Mfg. Co. and L. Hoffman; injunction Dec. 23, 1952; execution of judgment stayed pending appeal Jan. 27, 1953.

2,180,391, D. Blair, Undergarment, filed Mar. 2, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c465, *Blair Corset Co.* v. *Kabo, Inc.*

2,186,549, W. C. Luban, Process for preserving fruit peels and rinds, filed Mar. 11, 1953, D. C., S. D. Fla. (Tampa), Doc. 2314, *W. C. Luban et al.* v. *Graden Fruit Glace Co. et al.*

2,210,846, 2,316,832, E. P. Aghnides, Fluid mixing device, filed Mar. 3, 1953, D. C., M. D. N. C. (Greensboro), Doc. 728, *E. P. Aghnides* v. *The Meyer's Co.*

2,255,655, J. W. Denning, Picket fence making machine, filed Mar. 4, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c485, *Illinois Wire & Mfg. Co.* v. *Nebraska Bridge, Supply & Lumber Co.*

2,316,832. (See 2,210,846.)

2,320,157, P. A. Raiche, Catheter, D. C., S. D. N. Y., Doc. 55/205, *Davol Rubber Co.* v. *Metro Medical Distributors, Inc., et al.* Judgment dismissing complaint Mar. 10, 1953.

2,354,857, J. A. & J. P. Gits, Molded Indicia-bearing product and method of making the same, D. C., S. D. Ind. (Indianapolis), Doc. 2879, *J. A. Gits et al.* v. *Hoosier Cardinal Corp.* Consent judgment holding patent valid as to all claims, defendant has infringed, but no injunction to issue Feb. 27, 1953.

2,408,537, J. Weingarten, One-piece garment; 2,483,344, P. Kessner, Child's garment (declaratory judgment on invalidity as to defendant's patent), D. C., S. D. N. Y., Doc. 38/164, *Kute Kiddies Coats, Inc.* v. *Ever-Last Specialty Shoppe et al.* Order of dismissal (notice Mar. 3, 1953).

2,435,682, C. Getz, Aeration of butterfat-containing liquids, D. C., W. D. N. Y. (Buffalo), Doc. 3697, *Aeration Processes, Inc.* v. *Deco Restaurants, Inc.* Action dismissed for want of prosecution Mar. 6, 1953.

2,450,631, E. Buchler, Garment, D. C., S. D. N. Y., Doc. 35/92, *Arkay Infants Wear, Inc.* v. *Perfect Knit Tags, Inc. et al.* Stipulation and order of discontinuance (notice Mar. 2, 1953).

2,464,361, L. F. Wilson, Drip candle, filed Mar. 6, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15273–WM, *Lester F. Wilson* v. *Muench Kreuzer Candle Co., Inc.*

2,477,531, H. J. Volman, Magnetic dart game, filed Mar. 4, 1953, D. C., S. D. N. Y., Doc. 83/130, *Toy Enterprises of America, Inc.* v. *Pressman Toy Corp.*

2,483,344. (See 2,408,537.)

2,485,760, K. D. Millis et al., Cast ferrous alloy, filed Mar. 5, 1953, C. C. A., 4th Cir. (Richmond), Doc. 6379, *The International Nickel Co. Inc.* v. *Martin J. Barry, Inc.*

2,502,275, S. Perlin, Brief case, filed Mar. 5, 1953, D. C., S. D. N. Y., Doc. 83/145, *Savoy Leather Mfg. Corp.* v. *Standard Brief Case Co., Inc.*

2,583,820, C. O. Dicks, Stencil, D. C., S. D. Calif. (Los Angeles), Doc. 14396–T, *C. O. Dicks* v. *By-Buk Co.* Judgment holding patent valid and infringed; injunction (notice Mar. 10, 1953).

2,593,392. (See Des. 158,439.) 2,597,695. (See Des. 158,439.)

2,622,367, H. L. Tom, Toy helicopter, filed Mar. 6, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15272–C, *Tom & Co. et al.* v. *Mirra Cote Co., Inc. et al.*

2,624,308, A. Wittlin, Liquid flow indicator, D. C., N. D. Ill. (Chicago), Doc. 53c121, *Henry Valve Co.* v. *Allin Mfg. Co.* On stipulation, cause dismissed Feb. 13, 1953. Doc. 53c129, *A. Wittlin* v. *Henry Valve Co.* Decree as above.

2,628,184, R. R. Widmann, Composition of matter to decrease the circulation of blood and lymph in vascular and allergic disorders, filed Feb. 27, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15251–BH, *R. R. Widmann* v. *Walden Professional Pharmacy.*

2,630,573, H. J. Rand, Heat retaining garment, filed Mar. 13, 1953, D. C., S. D. N. Y., Doc. 83/243, *Deering, Milliken & Co., Inc.* v. *Temp-Resisto Corp. et al.*

2,630,620, H. J. Rand, Coated fabric, filed Mar. 10, 1953, D. C., S. D. N. Y., Doc. 83/204, *Deering, Milliken & Co., Inc.* v. *Temp-Resisto Corp. et al.*

Re. 23,163, Reiner & Braga, Clamp, filed Mar. 3, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13308, *K. Reiner et al.* v. *I. Leon Co., Inc.*

Des. 151,732, Des. 151,733, W. G. Bley, Lady's stocking, filed Mar. 6, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 14918, *Sanson Hosiery Mills, Inc., et al.* v. *Mar-Clay Hosiery Mills.*

Des. 151,733, W. G. Bley, Lady's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 13156, *Sanson Hosiery Mills, Inc., et al.* v. *Moreck Hosiery Co.* Consent judgment favor plaintiff and granting injunction Mar. 2, 1953. (See also Des. 151,732.)

Des. 156,029, M. H. Randolph, Handbag frame, D. C., S. D. N. Y., Doc. 62/123, *Randolph-Rand Sales Co., Inc.* v. *Criterion Purses, Inc.* Consent order of dismissal Mar. 2, 1953.

Des. 158,439, 2,593,392, Budlane & Dusek, Electric deep fat fryer; 2,597,695, Braski & Schwaneke, Cooking utensil, D. C., N. D. Ill. (Chicago), Doc. 50c1647, *Dulane, Inc.* v. *Dormeyer Corp. et al.* On stipulation, cause dismissed as to T. & E. Haffa; the action, complaints and counterclaims dismissed without prejudice as to Dulane, Inc. and Dormeyer Corp, Feb. 19, 1953.

NOTICES

Erratum

In the notice of republication under section 12(c) of the Trade-Mark Act of 1946, of Registration No. 430,407, appearing in the OFFICIAL GAZETTE of April 21, 1953, page 655, for "Syracuse, N. Y." read *Sycamore, Illinois.*

Disclaimers

2,313,966.—*Waldemar J. Poch*, Moorestown, N. J. CATHODE RAY TUBE SYSTEM. Patent dated Mar. 16, 1943. Disclaimer filed Apr. 22, 1953, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1, 2, and 7 of said patent.

2,391,890.—*Fred W. Fletcher* and *Eugene Kenaga*, Midland, Mich. FUMIGANT MIXTURES. Patent dated Jan. 1, 1946. Disclaimer filed Apr. 30, 1953, by the assignee, *The Dow Chemical Company.*

Hereby enters this disclaimer to claims 1 and 3 of said patent.

2,493,535.—*Gerhard Herzog*, Houston, Tex. VOLTAGE CONTROL AND STABILIZING CIRCUITS. Patent dated Jan. 3, 1950. Disclaimer filed Apr. 16, 1953, by the assignee, *The Texas Company.*

Hereby enters this disclaimer to claim 1 of said patent.

2,631,619.—*Arthur J. Folli*, Chicago, Ill. RECIPROCATING SAW TOOL ATTACHMENT. Patent dated Mar. 17, 1953. Disclaimer filed Apr. 23, 1953, by the assignee, *RCS Engineering Corporation.*

Hereby enters this disclaimer to claim 10 of said patent.

Final Fee Transmittal

The Patent Office is now issuing with each Notice of Allowance a form for use in transmitting a final fee, if required. These forms are being furnished as a convenience to the public and to facilitate the patent issue process in the Patent Office. Recipients are encouraged to complete and sign these forms and use them in lieu of letters in transmitting final fees.

T. B. MORROW,
Executive Officer.

May 8, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,608,231. Tire Chain Applier. Patented Aug. 26, 1952. Device will automatically apply an anti-skid chain to the tire of a vehicle wheel and then automatically detach itself from the chain by simply driving the vehicle forward. The chain is carried in box-shaped support secured to the under side of the vehicle adjacent the rear wheel to which the chain is to be applied. A pair of draw cables connected at their forward ends to a power spring and carrying connectors at their rear ends extend through the box and are threaded through terminal links of the chain disposed inside the front end of the box. The rear portions of the cables are looped about cable guides on each side of the wheel with the connectors releasably connected to fasteners of the chain. A pin for retaining the chain in the box may be raised to permit the cables to pull the rear end of the chain out of the box against the retarding action of a leaf spring until the first cross chain is firmly pressed against the tire. The chain may then be applied to the tire and the connectors released and drawn into the box by driving the vehicle forward. (Owner) Howard W. Johnson, 80 Highland Ave., Port Washington, N. Y. Groups 33—40; 38—31. Reg. No. 50,721.

Pat. 2,624,484. Loading Dump Truck Body. Patented Jan. 6, 1953. Loading and dumping truck of the type used for hauling logs, lumber, and similar products. A platform-like body is pivotally mounted to the truck through rollers which travel on tracks in channels that form the sides of the truck chassis. The rear of the body is swingably connected to the chassis. The body is free to roll rearwardly on the tracks when it is actuated to a loading or dumping position. As the body is lowered to a convenient loading position, a hook at the end of a pulley block is attached to a sling around the logs or lumber. The load is drawn upon the body and the body positioned on the chassis by a cable extended from a winch over an A-shaped frame at forward end of the body. As the body is drawn forwardly, the rollers move toward stops on the forward ends of the tracks. Loops are provided at the forward end of the body to receive latches on the chassis for locking the body in position on the chassis. (Owner) James E. Dalton, 910 Cottman St., Philadelphia, Pa. Group 38—11. Reg. No. 50,722.

Pat. 2,568,975. Lightweight Refrigerant Block. Patented Sept. 25, 1951. A lightweight inexpensive frozen block to be placed within a shipping case is useful in aircraft shipment of flowers and other lightweight perishables. The blocks are made of wadded absorbent water-soaked paper (such as old newspapers) provided with many interstices filled with air. The wadded paper is stuffed in a bag of muslin or like material and drained. The bag is then stapled closed and placed in a freezer until frozen solid. The bags may be placed in molds if desired prior to freezing. (Owner) Robert E. Warne, 275 Jack Lane, Honolulu 17, Territory of Hawaii. Group 35—84. Reg. No. 50,723.

Pat. 2,596,763. Salt Cellar Having Absorbent Cartridge. Patented May 13, 1952. Salt dispenser has a replaceable absorbent cartridge to collect and remove moisture therefrom. Dispenser has a lower threaded opening and an interior ring with an annular groove. The cartridge includes a perforated cylinder to be positioned within the dispenser having an exterior annular threaded rim to fix into the annular groove. A perforated paper bag containing granules of calcium chloride and absorbent paper are placed within the cylinder. A closure plug is provided for the lower threaded opening. Salt placed in the dispenser surrounds the cylinder, and the moisture in the salt is absorbed by the calcium chloride. The deliquefying properties of the calcium chloride will condense the moisture and pass it in liquid form to the absorbent paper. Dispenser may be made of glass, plastic, metal, etc. (Owner) Charles T. Crowley, 835 Mt. Holly St., Baltimore 29, Md. Groups 32—29; 34—54; 39—81; 40. Reg. No. 50,724.

Pat. 2,626,061. Paint Can Brush Scraper. Patented Jan. 20, 1953. One-piece paint brush scraper to be removably positioned against the inner upper surface of a paint can or bucket. A flat piece of material is stamped to form a horizontal shelf and an integral sloping sector with legs extending downwardly from an arcuate edge of the sector, and a tongue extended upwardly from the arcuate edge at a point midway of the length of the sector. The tongue is bent to form a clip to snap over the rim of a paint can to suspend the plate and sector on the inside of the can at a point spaced from the upper edge thereof. The arcuate edge of the sector and the legs rest against the inner surface of the can. Paint is scraped from the brush by drawing the brush over the edge of the shelf, and the paint scraped therefrom drops into the can. Device may also be used to support the brush when not in use. (Owner) Ralph A. Weed, 543 Custer Place, Canton, Ill. Groups 33—73; 40. Reg. No. 50,725.

Pat. 2,579,307. Needle, Thread, and Thimble Kit. Patented Dec. 18, 1951. This invention is a combined needle, thread, and thimble kit wherein the needles and thimble are retained on an attachment which is combined with the spool of thread and held in place by spring action. The kit is of simple construction, utilizes the spool as the supporting body, is inexpensive to manufacture, and has a minimum number of parts. (Owner) George J. Dillemuth, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Groups 39—81; 40. Reg. No. 50,726.

Pat. 2,618,867. Toy Flying Device. Patented Nov. 25, 1952. A collapsible toy flying device or flight trainer for children or adults is adapted to produce the illusion of flying an airplane. The device utilizes the optical illusion that if a moving scene is viewed from a stationary opening the effect is similar to viewing a stationary scene from a moving opening. The operator sits facing a simulated cockpit panel, complete with a mock instrument panel, compass indicator, and windshield, mounted on an upright base-supported frame. Visible through the windshield is a disc, carrying detachable pictures of typical flight scenes. The disc is movably mounted on supporting means permitting independent or simultaneous horizontal, vertical, and rotational movement of the disc to produce the illusion of flying. The supporting means include a rotational bar and a slide bracket adapted to receive a horizontal and a vertical slide bar. Movement of the disc is effected by means of a foot-operated horizontal rudder bar and a manually operated control stick operatively connected by cords to the horizontal and the rotational bars. (Owner) Otto A. Coppens, 345 Bloom St., Highland Park, Ill. Groups 37—21; 39—41. Reg. No. 50,727.

Pat. 2,618,014. Apparatus for Recording Surface Conditions Inside Tubular Elements. Patented Nov. 18, 1952. (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.) Device for testing deterioration of the inner surface of boiler tubes and the like, by making a plastic replica of the surface. The device includes a rigid housing which supports an inner electric heater coil. Adapted to be received within the housing or to be positioned forward thereof is an inflatable expander, detachably encircled by a plastic tubing on which the impression is to be made. A flexible air-pressure conduit suitably connected to the expander passes through the heating unit, and through an elongated flexible handle, to a collar pressure fitting and a control valve. The flexible handle enables the device to be pushed around curves to the desired point within a tube. In use, the heating coil is energized to soften the plastic, and the pressure valve is operated to inflate the expander and press the softened plastic against the inner surface of the tube. When the plastic is cooled and hardened, the air is released and the device withdrawn for removal of the impression. Modifications shown. (Co-owner) John W. Sawyer, 4510 18th St. North, Arlington 7, Va. Groups 33—12—64—93; 35—60; 39—81. Reg. No. 50,728.

Pat. 2,625,068. Skiving Tool Holding Means for Automatic Screw Machines. Patented Jan. 13, 1953. Skiving tool and tool holder, for detachable mounting upon a conventional tool post of various forms of automatic screw machines, readily lends itself to skiving in various positions and in spaces that have been impracticable heretofore with conventional skiving tool holders. Tool holder has a semi-cylindrical head portion and a forwardly extending jaw. The head is drilled and tapped to receive a clamping bolt carried by the tool post. The jaw has a flat tool-supporting surface with an upstanding key, and the jaw and key have a squared opening therethrough. A slotted skiving tool is detachably seated upon the tool surface over the key. A clamping device has a head slidable in the slot and a stud for traversing the squared opening which projects below the jaw and is threaded to receive a clamping nut. Upper forward edges of the tool are angled and ground for cutting engagement with adjacent work. (Owner) John R. Smith, 467 N. E. 107th St., Miami 38, Fla. Group 35—43. Reg. No. 50,729.

Pat. 2,624,216. Automatic Differential Lock. Patented Jan. 6, 1953. Differential includes an interlocking device for automatically locking the rear axles of an automotive vehicle together for equal power and rotation when either wheel slips or when one wheel slips more than the other, and for automatically unlocking the axles as soon as the traction and speed of the wheels become approximately uniform. The interlocking device does not interfere with normal differential action and requires a definite variation in the speed of the two wheels before locking the axles together and retaining them locked as long as one wheel has a tendency to spin relative to the other wheel. Cooperative clutches within the differential mounted on journals on the inner ends of the respective axles have teeth for cooperation with cam surfaces on the differential gears secured to the axles, and cooperative clutch teeth on their adjacent ends, with a spring for normally urging the clutches out of engagement. Vanes are formed on the exterior of each clutch for reaction with fluid within the differential housing for actuation of the clutches when one axle is driven at a speed greater than the normal differential speed. (Owner) Frank S. Nielsen, 376 17th St., Oakland 12, Calif. Group 38—31. Reg. No. 50,730.

Pat. 2,604,421. Apparatus for Manufacturing Corrugated Inserts, Adapted To Be Used in Boxes. Patented July 22, 1952. Machine for manufacturing corrugated inserts and applying a flat gummed strip to one side to maintain the corrugations. Such inserts may be used for the reception of ampoules in the valleys of the corrugations and for packing other easily breakable articles. A long flat strip of cardboard or other material to be corrugated is placed over a series of spaced parallel rods carried by an intermittently movable frame, and a number of vertical slides are successively moved downwardly into spaces between the rods to corrugate a portion of the strip. After each slide is moved downwardly into a space between two rods, it is held in its lowermost position until the next slide has been moved downwardly into the next space. After all the slides have been moved into and raised out of the spaces, the frame is advanced for the next operation. Intermittent movement of the frame and repeated operation of the slides continue until the entire strip has been corrugated. By means of a similar following frame carrying another strip to be corrugated the frame may then be moved farther beneath a pressure roller to apply a flat gummed strip of cardboard or other material to one side of the corrugated strip. (Owner) Packmat, A. G. Correspondence to Singer, Stern & Carlberg, 14 East Jackson Blvd., Chicago 4, Ill. Groups 26—27—63; 35—54. Reg. No. 50,731.

Pat. 2,623,720. Aircraft Construction. Patented Dec. 30, 1952. Aircraft, primarily adapted to serve as a seaplane, is designed to resist nosediving so that in case of power failure the craft would tend to land smoothly on the surface of a body of water and float thereon in stable position. An elongated floor beam divides the cabin into an upper compartment for passengers and a lower freight compartment. A pair of arms, preferably formed as unitary extensions of the beam, extend laterally from the beam at a point substantially one-third the length of the beam from the front end, at the center of gravity of the aircraft. Pontoons of arcuate longitudinal cross section depend from the arms, co-extensive therewith, to the bottom edge of the cabin body. A keel is secured to the under side of the cabin presenting an arced lower edge. A V-shaped wing of tear-drop cross section longitudinally is secured on the top of the cabin, with the upper surface parallel to the beam, and the point of the V extending backward. (Owner) Louis Fortunato, 392 N. 12th St., Newark 7, N. J. Group 37—21—22. Reg. No. 50,732.

United States Government Owned Patents

The following four patents (granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757) are the property of the United States of America as represented by the Secretary of the Interior by virtue of assignments from the inventors: Merritt A. Cutting (Pat. 2,608,895); David B. Taliaferro, Clifford F. McClung, and Fritz G. Mueller (Pat. 2,610,506); Frank S. Wartman (Pat. 2,616,800); and Joyce H. Crowell and Homer E. Benson (Pat. 2,617,816). Non-exclusive and royalty-free licenses are available. Applications for licenses may be addressed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,608,895. Surfacing Method and Apparatus. Patented Sept. 2, 1952. Rotary planing tool of the reamer type may be used for seating or re-seating the ends of pipes with a high degree of precision so that the pipes may be used in high pressure, high temperature installations in industrial plants and the like. Springs are employed to force the cutting tool away from the work and cause it to ride against a bearing surface at all times, the bearing surface being part of the assembly for holding the cutting tool. By maintaining the cutting tool against the bearing surface a uniformly tapered seat having a high degree of precision may be formed in the end of a pipe. The tool includes an outer threaded cup-shaped member for attaching it to the threaded end of a pipe. Group 35—41—43. Reg. No. 50,733.

Pat. 2,610,506. Instrument for Locating the Liquid Level in Wells. Patented Sept. 16, 1952. Electrical instrument will indicate fluctuations in the liquid level in a well subjected to fluctuating gaseous pressure by the progressive closing of a plurality of circuits. The instrument features the combination of a circuit-controlling hollow metal float provided with an upwardly extending pressure-equalizing venting tube, which opens into a downwardly open gas-confining chamber, and the provision of upper and lower annular float stops to limit travel of the opening of the tube within the gas-confining chamber. This combination protects the float from crushing by excessive external fluid pressure and also prevents entry of liquid into the float through the tube. Group 36—13. Reg. No. 50,734.

Pat. 2,616,800. Method of Making Cupro-Titanium. Patented Nov. 4, 1952. Cyclic process for the production of cupro-titanium alloy. A quantity of magnesium chloride is melted in a heated vessel, and cooling air is directed against a tapping spout of the vessel to solidify a portion of the molten mass in the spout in the form of a sealing plug to close the spout. Copper magnesium alloy is then introduced into the vessel and heated in the presence of an inert gas to form a fused pool of alloy in the bottom of the vessel. Sufficient liquid titanium tetrachloride is then introduced into the vessel to react with the fused alloy and convert the magnesium content of the alloy to magnesium chloride, which floats as an upper layer. Cooling of the tapping spout is then discontinued to allow the sealing plug to melt and permit it and the resulting cupro-titanium alloy and the magnesium chloride to pass out through the spout into a receiver. When most of the magnesium chloride has been discharged, cooling air is again directed against the spout to form another sealing plug therein, and the cycle repeated, except for the first step. Groups 28—89; 34—29. Reg. No. 50,735.

Pat. 2,617,816. Catalytic Conversion of Carbon Monoxide and Hydrogen to Hydrocarbons and Oxygenated Organic Compounds. Patented Nov. 11, 1952. This invention relates to the production of hydrocarbons and oxygenated organic compounds from mixtures of hydrogen and carbon monoxide in the presence of a conversion catalyst, and is particularly concerned with an improvement in the so-called submerged catalyst type of operation, wherein the conversion catalyst is immersed directly in a cooling liquid for removing the heat of reaction from the reaction zone. The improvement, which makes possible a more efficient utilization of the synthesis gas and prolongs the effective life of the catalyst, involves the steps of withdrawing a stream of the cooling liquid from the reaction zone in which the catalyst is immersed and passing the stream, free from catalyst, in countercurrent contact with a relatively dry gas stream comprising a mixture of hydrogen and carbon monoxide suitable for conversion in the reaction zone, and then re-cycling the cooling liquid back into the reaction zone. Group 28—89. Reg. No. 50,736.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 26, 1953

[VOL. 670. NO. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.8.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 640,586. Sears, Roebuck and Co., Chicago, Ill. Filed Jan. 9, 1953.

Cross Country

For Flower Boxes.
Claims use since on or about Jan. 15, 1950.

Ser. No. 640,774. O. B. Andrews Company, Chattanooga, Tenn. Filed Jan. 15, 1953.

PENNEFOLD

For Paperboard Folding Cartons.
Claims use since on or about July 29, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 606,531. Henry L. Kotkins, doing business as Skyway Luggage Company, Seattle, Wash. Filed Nov. 17, 1950.

TOTE-ALL

For Combined Luggage Cover and Carrying Bag.
Claims use since Sept. 7, 1950.

Ser. No. 627,076. Joseph Newmann, New York, N. Y. Filed Mar. 26, 1952.

LGM

For Satchels, Handbags, Billfolds, Wallets, Briefcases, Change Purses.
Claims use since February 1952.

Ser. No. 628,150. General Sewing Corp., New York, N. Y. Filed Apr. 16, 1952.

TRAVEL-WISE

No claim is made to the word "Travel" apart from the mark shown on the drawing.
For Suitcases and Garment Bags for Travel Use.
Claims use since Mar. 10, 1952.

Ser. No. 628,290. Oxenfeld Leathercraft Company, St. Louis, Mo. Filed Apr. 18, 1952. (Sec. 2f.)

"SQUEEZIT"

For Leather Purses.
Claims use since Feb. 15, 1944.

Ser. No. 630,370. Airline Luggage Shop, New York, N. Y. Filed May 28, 1952.

TEX-RAW

For Valises, Trunks, Suitcases, and Train Cases; Hat Cases, Wardrobe Cases, and Foot Lockers.
Claims use since June 14, 1944.

Ser. No. 633,863. The Osborne Company, Clifton, N. J. Filed Aug. 13, 1952.



Applicant claims ownership of Registration No. 65,333.
For Wallets, Billfolds, Key Holders, and Portfolios.
Claims use since April 1907.

Ser. No. 634,711. Plebel Inc., New York, N. Y. Filed Aug. 30, 1952.

ALL-IN-ALL

For Handbags and Overnight Cases.
Claims use since June 16, 1952.

CLASS 7

CORDAGE

Ser. No. 635,073. Visible Package Sales Corp., Chicago, Ill. Filed Sept. 9, 1952.

ZIP-TITE

No exclusive claim is made to the word "Tite" apart from the mark as shown on the drawing.
For Flexible Strips for Tying Pliable Bags.
Claims use since July 1952.

CLASS 10

FERTILIZERS

Ser. No. 635,474. Green Thumb Products, Toledo, Ohio. Filed Sept. 19, 1952.

GREEN THUMB

The drawing is lined for the color green but color is not essential. Applicant claims ownership of Registration No. 407,413.

For Fertilizer, Soil Conditioners, Amenders and Correctives Including Charcoal, Peat, and Other Mosses, Partially Decomposed Animal and Vegetable Organic Matter Sometimes Called "Humus," and Soils Having Any of the Foregoing Mixed Therewith, Primarily Intended for Use as Fertilizers, Plant Foods, or Soil Conditioners.

Claims use since Apr. 3, 1951.

Ser. No. 635,716. Potash Rock Co. of America, Lithonia, Ga. Filed Sept. 24, 1952.

HYBRO-TITE

For Crushed Granite Soil Conditioner.

Claims use since on or about Apr. 1, 1952.

Ser. No. 637,503. The Rosewell Floral Company, Lincoln, Nebr. Filed Nov. 1, 1952.

Rosewell's Green-Rain

The word "Rosewell's" is disclaimed apart from the mark as shown on the drawing.

For Liquid Plant Food for Fertilizing House Plants, Garden Flowers, Vegetables, and Shrubs.

Claims use since Aug. 28, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 625,682. Marsh Wall Products, Inc., Dover, Ohio. Filed Feb. 28, 1952.

DUOWOOD

Applicant claims ownership of Registrations Nos. 348,108 and 522,613.

For Plastic Surface Material in Sheet Form for a Wall Covering To Be Used Instead of Plaster and for Counter Tops, Bar Tops, Table Tops, and Similar Purposes in the Industrial Arts.

Claims use since Feb. 7, 1952.

Ser. No. 625,683. Marsh Wall Products, Inc., Dover, Ohio. Filed Feb. 28, 1952.

MARWOOD

Applicant claims ownership of Registrations Nos. 348,108 and 522,613.

For Plastic Surface Material in Sheet Form for a Wall Covering To Be Used Instead of Plaster and for Counter Tops, Bar Tops, Table Tops, and Similar Purposes in the Industrial Arts.

Claims use since Feb. 7, 1952.

Ser. No. 634,218. Fred H. Schaub Engineering Co., Chicago, Ill. Filed Aug. 20, 1952.

CHROMASOID

For Linings of Resinous Character To Protect Metallic Surfaces, Particularly the Inner Surfaces of Metal Tanks, Against Corrosion.

Claims use on or about Sept. 14, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 613,402. George Doppimaier, doing business as Roll Rain Co., Rio Linda, Calif. Filed May 2, 1951.

Roll Rain

The word "Roll" is disclaimed apart from the mark as shown.

For Field Sprinkling Apparatus Wherein the Sprinkling Apparatus Is Carried From Pipe Sections Supported by Spaced Wheels and the Pipe Sections Are Axially Mounted on the Wheels and Connected by Flexible Couplings and Component Parts Thereof Including Sprinkling Heads, Pipe Sections, Flexible Couplings, Wheels, Drive Units, End Pings, and Connectors.

Claims use since Apr. 25, 1951.

Ser. No. 625,470. Evia Manufacturing Company, San Francisco, Calif. Filed Feb. 25, 1952.

EVIS

For Fluid Treating Pipe Line and Entrance Fittings Having No Moving Parts and Being Operative To Treat Fluids and Solutions Passing Therethrough Catalytically and Without Additions or Chemical Change To Effect Changes in the Physical Properties of Same.

Claims use since Feb. 12, 1951.

Ser. No. 632,963. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey. Filed July 23, 1952. (Sec. 2f.)

GERRARD

Applicant claims ownership of Registration No. 388,951.

For Steel Strapping and Seals for Flat Steel Strapping.

Claims use since Mar. 15, 1931.

Ser. No. 636,535. Pacific Wire Products Company, Compton, Calif. Filed Oct. 11, 1952.

PACWIRE

For Bronze, Aluminum, and Steel Insect Screen Cloth; Woven Steel Mesh Netting and Hardware Cloth; Welded Steel Mesh Fabric Used Primarily for Chicken Coops.

Claims use since July 10, 1952.

Ser. No. 636,875. The Bates Manufacturing Company, Orange, N. J. Filed Oct. 20, 1952.

End-icator

For Strips of Staples for Hand Operated Desk Type Stapling Machines.

Claims use since Sept. 30, 1952.

Ser. No. 637,199. Wilton Tool Mfg. Co., Chicago, Ill. Filed Oct. 25, 1952.

OLD FAITHFUL

For Lawn Sprinklers.

Claims use since June 18, 1952.

Ser. No. 637,563. Automatic Devices Co., Allentown, Pa. Filed Nov. 4, 1952.

ADC

For Steel Curtain Track.

Claims use since July 17, 1950.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 628,873. Qualcast Limited, Derby, England. Filed Apr. 29, 1952.

"QUALCAST"

Applicant claims ownership of United States Registration No. 307,175.

For Metal Castings.

Claims use since Jan. 24, 1920; and use in commerce between foreign nations and the United States since Jan. 24, 1920.

Ser. No. 637,165. Bethlehem Steel Company, Bethlehem, Pa. Filed Oct. 25, 1952.

BETHCON

Applicant claims ownership of Registrations Nos. 284,576, 340,584, and others.

For Galvanized Steel Sheets.

Claims use since Apr. 27, 1952.

Ser. No. 641,500. Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Filed Jan. 29, 1953. (Sec. 2f as to "Cochran.")

Chef-Foil

No claim is made to exclusive right to the word "Foil." Applicant claims ownership of Registrations Nos. 436,655 and 549,290.

For Aluminum Foil.

Claims use since Oct. 22, 1952 on the mark as shown; and since May 1940 on the word "Cochran."

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 621,580. Karl H. Sautter, doing business as Leo Products, Chicago, Ill. Filed Nov. 23, 1951.

Leo

The mark consists of the word "Leo."

For Laxative Preparation for Human Use.

Claims use since Dec. 11, 1933.

Ser. No. 622,705. American Cyanamid Company, New York, N. Y. Filed Dec. 20, 1951.

INCREMIN

For Vitamin Preparation.

Claims use since Dec. 3, 1951.

Ser. No. 623,947. Ciag Aktiengesellschaft, Schaffhausen, Switzerland. Filed Jan. 23, 1952.

LUVATRENE

Applicant claims ownership of Swiss Registration No. 137,293, dated Mar. 24, 1951.

For Chemical-Pharmaceutical Preparations Used in the Treatment of Extrapyramidal Motor Disorders, Hemiplegias, Paraplegias, Parkinson's Disease, Multiple Sclerosis, Tetanus, Electric Shock, Spastic Syndromes, Rheumatism and Related Conditions, Also Used in Connection With the Reduction of Fractures and Luxations and as an Adjuvant in Physiotherapy and Psychotherapy.

Ser. No. 624,296. Ricci Laboratories, Inc., New York, N. Y. Filed Jan. 30, 1952.

VIAMAX.

For Balanced Vitamin and Amino Acid Supplement.
Claims use since April 1951.

Ser. No. 625,759. Schwarz Laboratories, Inc., New York, N. Y. Filed Feb. 29, 1952.

TRIPHOSADEN

For Adenosine Triphosphoric Acid for Investigational Use in the Treatment of Diseases Such as Arthritis and Hypertension.
Claims use since Feb. 5, 1952.

Ser. No. 628,501. Marcantel Medicine Co. Inc., Elton, La. Filed Apr. 22, 1952.

Marcs

For Vitamin Tonic, Cough Syrup, Medicinal Mineral Oil, and Rubbing Alcohol.
Claims use since Nov. 23, 1951.

Ser. No. 633,776. Lucas Products Corporation, Toledo, Ohio. Filed Aug. 12, 1952.



For Preparation for Use as an Antiseptic, Germicide, and Deodorant.
Claims use since July 31, 1952.

Ser. No. 637,402. Schenley Laboratories, Inc., New York, N. Y. Filed Oct. 30, 1952.

AFS-4

For Antibiotic Feed Supplements.
Claims use since Mar. 6, 1952.

Ser. No. 639,042. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Dec. 5, 1952.

ISOCRIN

Applicant claims ownership of Registration No. 365,924.
For Medicinal Preparation for Treatment of Intestinal Stasis.
Claims use since Oct. 10, 1952.

Ser. No. 639,297. The Wander Company, Chicago, Ill. Filed Dec. 10, 1952.

NOREXIN

For Pharmaceutical Product for the Curbing or Repression of Appetite.
Claims use since Nov. 26, 1952.

Ser. No. 639,358. Abbott Laboratories, North Chicago, Ill. Filed Dec. 12, 1952.

CLYPRON

For Sedative and Hypnotic.
Claims use since Nov. 26, 1952.

CLASS 19
VEHICLES

Ser. No. 631,919. Consolidated Vultee Aircraft Corporation, San Diego, Calif. Filed June 28, 1952.



The words "Aircraft Corporation" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 359,574, 401,692, and others.
For Airplanes.
Claims use since March 1952.

Ser. No. 634,740. The Hercules Cycle and Motor Company Limited, Birmingham, England. Filed Sept. 2, 1952.



Disclaimer is hereby made to the geographical notation "Birmingham England" and to the metal tag shown in the drawing. Applicant claims ownership of British Registration No. B.693,657, dated Nov. 8, 1950; and United States Registration No. 303,186.
For Pedal Cycles and Parts Therefor.

Ser. No. 635,639. Ford Motor Company Limited, London, England. Filed Sept. 23, 1952.

CONSUL

For Passenger Automobiles and Structural Parts Thereof.
Claims use since on or about October 1950.

Ser. No. 635,640. Ford Motor Company Limited, London, England. Filed Sept. 23, 1952.

Prefect

For Passenger Automobiles and Structural Parts Thereof.
Claims use since on or about October 1938.

Ser. No. 635,895. Lacy Anderson, doing business as Anderson Household Scooter Products, Barberton, Ohio. Filed Sept. 29, 1952.



No claim is made to "Anderson" and "Household Scooter Products" apart from the mark as shown on the drawing.
For Scooter Designed for Use in the Household as an Aid in Moving Furniture and the Like.
Claims use since July 29, 1952.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 591,872. The Stevens Paper Mills, Inc., Westfield, Mass. Filed Feb. 2, 1950.



Applicant disclaims the surname "Stevens" apart from the mark as shown. Applicant claims ownership of Registration No. 367,755.
For Capacitor Paper, Coil Insulation Paper, and Condenser Paper.
Claims use since Jan. 10, 1950.

Ser. No. 608,043. Johns-Manville Corporation, New York, N. Y. Filed Dec. 23, 1950.

JOMANCO

For Plastic Electrical Tape.
Claims use since Nov. 20, 1950.

Ser. No. 613,361. C. O. S. Laboratories, Inc., Stamford, Conn. Filed May 1, 1951.

INCREDUCTOR

For Variable Inductors.
Claims use since Mar. 30, 1951.

Ser. No. 615,188. Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Filed June 14, 1951.

Plymouth

Applicant claims ownership of Registrations Nos. 385,432, 391,019, and 540,070.
For Electrical Apparatus — Namely, Electric Fans; Bread and Roll Toasters; Waffle Irons; Sandwich Toasters; Irons; Grills; Broilers; Food Mixers; and Dish Washers.
Claims use since July 23, 1936.

Ser. No. 615,335. P. R. Mallory & Co., Inc., Indianapolis, Ind. Filed June 18, 1951.

UNI-SHAFT

The word "Shaft" is disclaimed apart from the mark.
For Volume Controls, Rheostats, Variable Resistance Devices.
Claims use since Feb. 23, 1951.

Ser. No. 615,877. Cardinal Chemical Corporation, Philadelphia, Pa. Filed June 29, 1951.

INSECT-O-VAP

No claim is made in this application to the word "Insect" apart from the mark as shown.
For Electrically-Heated Volatilizers for Insecticides and the Like.
Claims use since on or about Apr. 20, 1951.

Ser. No. 621,575. Ralph H. Persons, doing business as American Vacuum Company, Chicago, Ill. Filed Nov. 23, 1951.

ARGO

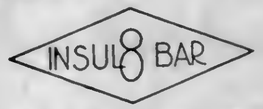
For Electrically Operated Vacuum Cleaner for Industrial Use.
Claims use since September 1939.

Ser. No. 624,594. Electrolux Corporation, Dover, Del., and New York, N. Y. Filed Feb. 6, 1952.

TUFTOR

For Removable Inserts for Vacuum Cleaner Suction Nozzles.
Claims use since Dec. 26, 1951.

Ser. No. 625,090. Benbow Manufacturing Co., Burlingame, Calif. Filed Feb. 18, 1952.



The word "Bar" is disclaimed apart from the mark as shown.
For Electric Trolley Conductors, Collectors, and Insulating Sheathing.
Claims use since Feb. 11, 1952.

Ser. No. 629,404. Waring Products Corporation, New York, N. Y. Filed May 8, 1952.

CELEBRITY

For Electrical Disintegrators and Mixers for Producing Fluid Substances From Solid Foods and Other Organic Matter and for Intermixing Fluids for Domestic, Commercial, and Industrial Uses.
Claims use since Jan. 17, 1952.

Ser. No. 636,096. Square D Company, Detroit, Mich. Filed Oct. 2, 1952.

XO

For Automatic Electric Circuit Breakers, Enclosures for Automatic Electric Circuit Breakers, and Assemblages of Automatic Electric Circuit Breakers — Namely, Panelboards, Panels, Panelettes, and Load Centers.
Claims use since July 15, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 633,845. Gratón & Knight Company, Worcester, Mass. Filed Aug. 13, 1952.

GRAKO KID

Applicant claims ownership of Registration No. 114,749.
For Children's Cowboy and Cowgirl Outfits Consisting of Holster Sets Complete With Toy Guns and Toy Bullets.
Claims use since June 27, 1952.

Ser. No. 641,267. Berkley W. Bedell, doing business as Berkley Fly Company, Spirit Lake, Iowa. Filed Jan. 26, 1953.

White Ghost

For Snelled Hooks and Fishing Leaders.
Claims use since Oct. 17, 1952.

Ser. No. 641,440. Cortland Line Company, Inc., Cortland, N. Y. Filed Jan. 28, 1953.

333

For Fish Lines.
Claims use since on or about Mar. 1, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 583,709. Powdered Metal Products Corporation of America, Franklin Park, Ill. Filed Aug. 19, 1949.

Powdermet

For Gear Housings, Rack Slides, Spline Gears, Clutch Mechanism Sliding Sleeves, Cam Hubs, and Inner Cylinders for Tumbler Locks.
Claims use since Mar. 15, 1949.

Ser. No. 585,054. Clementina Company, San Francisco, Calif. Filed Sept. 20, 1949.

CLEMCO

For Sand Blasting Equipment—Namely, Sand Blasting Machines.
Claims use since on or about Jan. 1, 1946.

Ser. No. 600,163. Cultro, Inc., Boise, Idaho. Filed July 3, 1950.

CULTRO

For Rotary Cultivators for Attachment to the Cultivator Bars of Tractors.
Claims use since Dec. 1, 1949.

Ser. No. 603,474. Carter Carburetor Corporation, St. Louis, Mo. Filed Sept. 13, 1950. (Sec. 2f.)

CARTER

For Carburetors and Fuel Pumps, and Special Wrenches, Screw-Drivers, Drills, and Jigs Therefor, and Parts Thereof.
Claims use since 1909.

Ser. No. 604,647. William G. Mason, doing business as Triangle Manufacturing Company, Detroit, Mich. Filed Oct. 9, 1950.

EX-CELLAR

The word "Cellar" is disclaimed apart from the mark as shown.
For Sump Pump.
Claims use since Nov. 28, 1939.

Ser. No. 608,588. Appleton Electric Company, Chicago, Ill. Filed Jan. 10, 1951. (Sec. 2f.)

RETRACT-O-REEL

Applicant disclaims the right to exclusive use of the word "Reel" apart from the mark shown in the drawing.
For General Service, Spring Operated Balance Reels for Portable Tools and the Like.
Claims use since Jan. 29, 1945.

Ser. No. 612,405. Lectrolite Corporation, Defiance, Ohio. Filed Apr. 9, 1951. (Sec. 2f.)

TRU-FIT

Applicant claims ownership of Registration No. 537,194.
For Box Wrenches, Combination Box and Open End Wrenches, Open End Wrenches, "Stillson" Pipe Wrenches, Pliers, Automotive Pliers, Rim Wrenches, Tire Irons, and Valve Lifting Tools.
Claims use since January 1917.

Ser. No. 613,159. The Bullard Company, Bridgeport, Conn. Filed Apr. 26, 1951.

VERT-AU-MATIC

Applicant claims ownership of Registrations Nos. 415,013 and 415,014.
For Machine Tools of the Lathe and Boring Mill Type.
Claims use since Apr. 6, 1951.

Ser. No. 614,383. Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Filed Mar. 15, 1951.

G&L

Applicant claims ownership of Registration No. 146,233.
For Plastic Injection Molding Machines, Rotary Tables, Boring Tools, and Metal Working Machines—Namely, Horizontal Boring, Drilling, and Milling Machines, Vertical Boring Mills, Production Milling Machines, Metal Planers, and Planer Millers, and Machinery Accessories and Attachments Forming or Adapted To Form Parts of Said Metal Working Machines.
Claims use since May 1, 1920.

Ser. No. 614,707. Mergenthaler Linotype Company, Brooklyn, N. Y. Filed June 4, 1951.

BLUE STREAK COMET

For Metal Casting Machines for Producing Type Bars Used in Printing, and Parts Thereof.
Claims use since Dec. 20, 1950.

Ser. No. 617,221. The Wood Shovel and Tool Company, Piqua, Ohio. Filed Aug. 1, 1951.

Zephyr

For Hand Tools—Namely, Scoops and Shovels.
Claims use since June 1947 on the mark as shown; and since 1931 on the word "Zephyr."

Ser. No. 619,519. Quincy Compressor Co., Quincy, Ill. Filed Oct. 2, 1951. (Sec. 2f.)

Quincy COMPRESSORS

The word "Compressors" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 291,526.
For Air Compressors.
Claims use since August 1923.

Ser. No. 619,549. Rockford Machine Tool Co., Rockford, Ill. Filed Oct. 3, 1951.

KOPY-KAT

Applicant disclaims the word "Kopy" apart from the mark as shown.
For Hydraulically-Operated Duplicators for Metal Working Machinery.
Claims use since May 9, 1951.

Ser. No. 621,219. Mergenthaler Linotype Company, Brooklyn, N. Y. Filed Nov. 14, 1951.

COMET

For Metal Casting Machines for Producing Type Bars Used in Printing, and Parts Thereof.
Claims use since Dec. 20, 1950.

Ser. No. 626,977. E. L. Caldwell & Sons, Corpus Christi, Tex. Filed Mar. 25, 1952.

CALDWELL Giant

No claim is made to the words "Caldwell" and "Giant" apart from the mark shown in the drawing.
For Brush Cutting Machines Adapted To Be Drawn by Tractors.
Claims use since Mar. 10, 1952.

Ser. No. 627,187. Hillman Motor Car Company Limited, Coventry, England. Filed Mar. 28, 1952.

ECONIMASTER

For Power Units—Namely, Internal Combustion Engines.
Claims use since Feb. 27, 1952; and first used in commerce between foreign nations and the United States on Feb. 27, 1952.

Ser. No. 629,416. Automotive Engineering, Inc., Chicago, Ill. Filed May 9, 1952.

STRAT-O-TONE

The representation of the muffler and the word "Tone" are disclaimed apart from the mark as shown.
For Mufflers for Internal Combustion Engines and Parts Thereof—Namely, Tail Pipes, Exhaust Pipes, and Muffler Clamps.
Claims use since May 1, 1952.

Ser. No. 629,920. Sterling Engine Co., Buffalo, N. Y. Filed May 19, 1952. (Sec. 2f as to "Sterling.")

Sterling

Applicant claims ownership of Registrations Nos. 140,299, 175,537, and 444,285.
For Internal Combustion Engines.
Claims use since on or about Feb. 10, 1922.

Ser. No. 630,938. Tom Killian, Inc., Denver, Colo. Filed June 9, 1952.

X-PAN

For Auto-Motive Pistons and Machines for Expanding Automotive Pistons.
Claims use since on or about Apr. 10, 1952.

Ser. No. 631,024. Saco-Lowell Shops, Boston, Mass. Filed June 10, 1952.

DUO-ROTH

Applicant disclaims the word "Roth" except when combined with "Duo," with the latter as a prefix.
For Textile Machinery—Namely, Spinning Frames.
Claims use since Jan. 17, 1952.

Ser. No. 631,311. Randall Manufacturing Company, Inc., New York, N. Y. Filed June 17, 1952.

RAMCO

For Machines for Removing Grease From Metal Articles; Machines for Washing Metal Articles, and Articles Made of Hard Materials; Machines for Coating Articles With Wax, Lacquer, and Other Liquid Preparations; Machines for Dipping Operations To Clean, Paint, Plate, Finish, Preserve, and Surface Condition Metallic and Non-Metallic Articles, and on Parts of All Said Machines.
Claims use since Sept. 5, 1947.

Ser. No. 633,117. Perma-Stamp Products Corporation, New York, N. Y. Filed July 26, 1952.

Perma-Stamp

The word "Stamp," apart from the mark as shown, is disclaimed.
For Pre-Inked Plastic Stamps Adapted To Be Used for a Considerable Period, Without Re-Inking.
Claims use since July 2, 1952.

Ser. No. 635,719. George Richards & Company Limited, Broadhearth, near Manchester, England. Filed Sept. 24, 1952.

ELECTRABORE

Applicant claims ownership of British Registration No. B697,817, dated Apr. 27, 1951.
For Combined Boring and Facing Machines.

Ser. No. 636,721. The Massey-Harris Company, Racine, Wis. Filed Oct. 16, 1952.

Mustang

For Farm Tractors.
Claims use since Oct. 6, 1952.

Ser. No. 639,108. Consolidated Sewing Machine Corp., New York, N. Y. Filed Dec. 6, 1952.

FEDERAL

For Sewing Machines and Parts Thereof and Attachments Therefor.
Claims use since on or about July 1, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 612,863. Infilco Incorporated, Tucson, Ariz. Filed Apr. 19, 1951.

C.-A.-P. SYSTEM

Applicant claims the term "System" as part of the mark as shown but not otherwise.
For Pneumatically Operated Instruments—Namely, Gauges, Indicators, Recorders, Controllers, Converters, Transmitters, Automatic Pressure Operated Control Valves, for Indicating, Recording, Integrating, Metering, and Controlling the Magnitude of Fluid Flows and Pressures, Combinations of Such Pneumatically Operated Instruments, and Parts of Such Pneumatically Operated Instruments.
Claims use since May 29, 1949.

Ser. No. 618,063. Taylor Instrument Companies, Rochester, N. Y. Filed Aug. 24, 1951.

TRI-ACT

Without surrendering any common law rights thereto, the term "Tri" is disclaimed apart from the mark as shown.
For Automatic Controllers for Controlling Temperature, Pressure, Liquid Level, Rate of Flow, and Like Variables.
Claims use since Nov. 1, 1950.

Ser. No. 623,331. Bell & Howell Company, Chicago, Ill. Filed Jan. 9, 1952.

"200-T"

For Motion Picture Cameras.
Claims use since Sept. 21, 1951.

Ser. No. 623,961. Ing. C. Olivetti & C. S. p. A., Ivrea, Italy. Filed Jan. 23, 1952. (Sec. 2f.)

olivetti

For Calculating Machines and Parts Thereof.
Claims use since 1949; and first used in commerce with the United States in 1949.

Ser. No. 636,102. Visual Department Church of Prophecy Marker Association, Cleveland, Tenn. Filed Oct. 2, 1952.

Official Film
AUDIO-VISUAL DEPARTMENT
The Church of God of Prophecy

The words "Official Film," "Audio-Visual Department," and "The Church of God of Prophecy" are disclaimed apart from the trade-mark as shown.
For Motion Picture Films.
Claims use since June 20, 1952.

Ser. No. 638,665. John W. Row, Berrien Springs, Mich. Filed Nov. 26, 1952.

SERVOFLEX

For Photographic Tripod Head.
Claims use since Mar. 24, 1952.

Ser. No. 638,761. A. W. Faber-Castell Pencil Co. Inc., Newark, N. J. Filed Nov. 29, 1952.

THE SCALES

For Rulers, Calculating Rules, T-Squares, and Triangles.
Claims use since 1887.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 637,448. Kay Manufacturing Corporation, Brooklyn, N. Y. Filed Oct. 31, 1952.

DOWER

For Reclining Chair Mechanisms and Parts Therefor.
Claims use since Oct. 15, 1952.

CLASS 33

GLASSWARE

Ser. No. 632,592. Binswanger & Co. Incorporated, Richmond, Va. Filed July 16, 1952.

VELVA LINE

For Patterned Architectural Glass.
Claims use since February 1951.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 623,114. Miller and Rhoads, Incorporated, Richmond, Va. Filed Dec. 10, 1951. (Sec. 2f.)

THE SHOPPING CENTER

Applicant claims ownership of Registration No. 544,796.
For Fireplace Equipment—Namely, Metal Andirons, Fireplace Screens, Cape Cod Burners, and Radiator Shields; Candle Snuffers; Electric Ventilators.
Claims use since April 1917.

Ser. No. 628,573. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. No claim is made to the representation of the sewing machine apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Room Heaters and Fans for Room Heaters.
Claims use since 1946.

Ser. No. 629,409. Carl W. Adelt, doing business as Uni-Therm Company, Mays Landing, N. J. Filed May 9, 1952.

UNI-THERM

The word "Therm" is disclaimed apart from the mark as shown.
For Chimney Caps.
Claims use since Feb. 15, 1952.

Ser. No. 634,238. Henry N. Clark Co., Boston, Mass. Filed Aug. 21, 1952.

Crescent

Applicant claims ownership of Registration No. 86,038.
For Cooking Ranges.
Claims use since 1895.

Ser. No. 634,412. Arthur J. Hood, Reno, Nev. Filed Aug. 25, 1952.



The word "Barbecue" and the term "BQ" are disclaimed apart from the mark as shown.
For Barbecue Units.
Claims use since June 11, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 561,487. Canadian Wallpaper Manufacturers Limited, New Toronto, Ontario, Canada, assignee of The Reg. N. Boxer Company Limited. Filed July 15, 1948.

CHARLES DICKENS CHINTZ COLLECTION

The word "Chintz" is disclaimed apart from the mark as shown. "Charles Dickens" was a famous novelist of the 19th century.
For Wallpaper.
Claims use since June 21, 1948.

Ser. No. 603,233. Gulf States Paper Corporation, Tuscaloosa, Ala. Filed Sept. 7, 1950.

Blue Spruce

For Wrapping Paper and Butcher's Paper.
Claims use since June 1, 1950.

Ser. No. 612,075. Hurlbut Paper Company, South Lee, Mass. Filed Mar. 31, 1951. (Sec. 2f.)

HURLBUT
DRAWING PAPERS

The word "Drawing Papers" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 285,186, 387,170, and others.
For Drawing Paper.
Claims use since Apr. 1, 1930.

Ser. No. 623,186. Dri-Flo Manufacturing Co., Hazel Park, Mich. Filed Jan. 4, 1952. (Sec. 2f.)

DRI-FLO

For Fountain Pens With Nibs of Porous Material, Fountain Brush Pens, and Nibs for Fountain Pens.
Claims use since May 1, 1946.

Ser. No. 627,490. Cel-U-Dex Corporation, Brooklyn, N. Y. Filed Apr. 3, 1952. (Sec. 2f.)

INDEX ALL

For Index Tab Sets Sold in Strips.
Claims use since May 1, 1940.

Ser. No. 627,492. Cel-U-Dex Corporation, Brooklyn, N. Y. Filed Apr. 3, 1952.

TAB-ETS

No claim is made to the word "Tab" apart from the mark as shown.
For Index Tabs.
Claims use since Feb. 1, 1949.

Ser. No. 632,703. Vaporized Metal Coatings, Inc., New York, N. Y. Filed July 17, 1952.

VAMETCO

For Metal Coated Paper.
Claims use since May 14, 1952.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 606,622. Matera and Kelly, New York, N. Y. Filed Nov. 18, 1950.

MR. HOLIDAY

For Comic Strip.
Claims use since July 3, 1950.

Ser. No. 614,667. McCord Company, San Francisco, Calif. Filed June 2, 1951. (Sec. 2f.)

McCord's Daily
NOTIFICATION SHEET

No claim is made to the words "Daily," "Notification," and "Sheet" apart from the mark as shown.
For Daily Publication Presenting Credit Items, New Business Leads, Notices of Sale, Notices of Chattel Mortgages, Business Changes and Record Items, and Other Notices of Interest to Business Men.
Claims use since June 10, 1948.

Ser. No. 619,840. George Ladislas Layton, doing business under the trading style of M. L. & G. L. Layton, London, England. Filed Oct. 10, 1951. (Sec. 2f.)



The lining is for shading only. Applicant claims ownership of British Registration No. 677,383, dated Feb. 25, 1949.
For Periodical Publications.
Claims use since 1928 in Hungary; and since 1928 in commerce between foreign nations and the United States.

Ser. No. 630,616. Quality Courts United, Inc., St. Petersburg, Fla. Filed June 2, 1952. (Sec. 2f.)



For Travel Guides Issued Periodically.
Claims use since December 1939.

Ser. No. 635,854. The Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., Detroit, Mich. Filed Sept. 26, 1952.

SPEBSQSA

Applicant claims ownership of Registration No. 432,435.
For Song Arrangements Sold in Book and Sheet Music Form.
Claims use since January 1943.

Ser. No. 636,645. William H. Long, Kansas City, Mo. Filed Oct. 15, 1952.

Tel-a-day

For Novelty Calendars.
Claims use since Feb. 1, 1952.

Ser. No. 637,322. Orlando Daily Newspapers, Inc., Orlando, Fla. Filed Oct. 29, 1952.

ORLANDO EVENING STAR

The words "Orlando" and "Evening" are disclaimed apart from the mark as shown.
For Daily Newspaper.
Claims use since Apr. 24, 1947; and since 1912 as to "Star."

Ser. No. 637,323. Orlando Daily Newspapers, Inc., Orlando, Fla. Filed Oct. 29, 1952.

Orlando Morning Sentinel

The words "Orlando" and "Morning" are disclaimed apart from the mark as shown.
For Daily Newspaper.
Claims use since 1913.

Ser. No. 637,324. Orlando Daily Newspapers, Inc., Orlando, Fla. Filed Oct. 29, 1952.

Orlando Sunday Sentinel-Star

The words "Orlando" and "Sunday" are disclaimed apart from the mark as shown.
For Sunday Newspaper.
Claims use since Jan. 25, 1931; and since 1912 as to "Star."

Ser. No. 639,214. Fairchild Publications, Inc., New York, N. Y. Filed Dec. 9, 1952.

Trade Excitement

For Newspaper Column or Columns.
Claims use since Nov. 14, 1952.

Ser. No. 639,264. Colton Press, Inc., New York, N. Y. Filed Dec. 10, 1952.

PRODUCTIONWISE

For Publication for the Buyer, User, and Planner of Advertising Promotion, and Printed Material.
Claims use since Oct. 22, 1952.

Ser. No. 639,520. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Books and Greeting Cards.
Claims use since 1932.

CLASS 39

CLOTHING

Ser. No. 608,327. Arthur M. Schargel, Westfield, N. J. Filed Jan. 3, 1951.



The name "Arthur Stevens" is fictitious.
For Topcoats, Overcoats, Raincoats, Rain Hats, Rubbers and Galoshes, Play Suits, Snow Suits, Rompers, Creepers, Outer Shirts, Collars and Cuffs, Trousers, Slacks, Vests, Overalls, Coveralls, Outer Shorts, Aprons, Infants' Bands, Bibs, Bathrobes, Handkerchiefs, Neckties, Suspenders, Belts, Hats, Caps, Berets, Bonnets, Earmuffs, and Removable Garment Liners, Industrial Uniforms.
Claims use since Oct. 25, 1950.

Ser. No. 610,575. Walter W. Moyer Company, Ephrata, Pa. Filed Feb. 27, 1951.

Mo-Ray

For Men's Underwear.
Claims use since Oct. 16, 1950.

Ser. No. 610,576. Walter W. Moyer Company, Ephrata, Pa. Filed Feb. 27, 1951.

My-Lady

For Women's Hosiery and Underwear.
Claims use since Oct. 16, 1950.

Ser. No. 616,855. Impulse Items, New York, N. Y. Filed July 24, 1951.

The PUSHOVER

IMPULSE ITEMS

No claim is made to the word "Items" apart from the mark as shown.
For Women's and Girls' Hats.
Claims use since July 20, 1951.

Ser. No. 617,790. M. R. Fleischman Co., San Francisco, Calif. Filed Aug. 17, 1951.

N W E S

go abouts

For Ladies' Sportswear — Namely, Jackets, Skirts, Blouses, and Ensembles Thereof.
Claims use since Apr. 3, 1951.

Ser. No. 621,043. Yaleco Rubber Company, Inc., New Haven, Conn. Filed Nov. 8, 1951.

Duckling

For Waterproof Diaper Covers Made of Plastic.
Claims use since Aug. 31, 1951.

Ser. No. 621,522. Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Filed Nov. 21, 1951.

ACTION-EASE

The applicant disclaims the word "Ease" apart from the mark as shown.
For Men's Knitted Sweaters and Basque Shirts.
Claims use since Sept. 30, 1948.

Ser. No. 621,786. The Russell Manufacturing Company, Alexander City, Ala. Filed Nov. 28, 1951. (Sec. 2f as to "Russell.")

RUSSELL

For Men's and Boys' Apparel and Sportswear—Namely, Underwear Consisting of Shirts, Vests, Shorts, and Union Suits, Sweat Shirts, Sweat Pants, Warm-Up Suits, Sweaters, Hooded Shirts, Softball Jerseys, Gym Shirts, Gym Pants, Gym Suits, T and Quarter-Sleeve Shirts, Baseball Undershirts, Basketball Jerseys, Basketball Pants, Warm-Up Jackets, Football Jerseys, Prep Jackets, Soccer Jerseys, Tank Suits, and Swim Trunks.
Claims use since July 1, 1920.

Ser. No. 621,810. Blair Corset Company, Inc., Chicago, Ill. Filed Nov. 29, 1951. (Sec. 2f.)

Verilite

Applicant claims ownership of Registration No. 251,009.
For Corsets, Girdles, Knitted Step-Ins, Brassières, Bandeaux, Corselette Combinations, and Garter Belts.
Claims use since July 1927.

Ser. No. 624,332. Durable Sportwear Company, Inc., Lynbrook, N. Y. Filed Jan. 31, 1952.

Sportswear by Charles Evans

The drawing is lined for blue. The word "Sportswear" is disclaimed apart from its use in connection with the trade-mark. The name "Charles Evans" is fanciful.
For Men's and Boys' Jackets and Coats.
Claims use since Sept. 17, 1951.

Ser. No. 625,193. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed Feb. 19, 1952.

Larkettes

For Women's Hosiery.
Claims use since Dec. 6, 1951.

Ser. No. 626,266. Rosenblatt and Kahn, Inc., New York, N. Y. Filed Mar. 11, 1952.

ADD-A-YEAR

For Children's Coats, Snow Suits, Suits, Dresses, Pajamas, and Playsuits.
Claims use since Dec. 8, 1947.

Ser. No. 628,830. Sanitary Knitting Company, Grand Rapids, Mich. Filed Apr. 28, 1952.

PENINSULAR

The outline of the State of Michigan is disclaimed apart from the mark as shown.
For Infants', Children's, Boys', and Girls' Knit Outerwear—Namely, Boys' Knitted Suits, Boys' Shorts or Pants, Boys' Long Pants and Slacks, Boys' and Girls' Jackets, Girls' Skirts and Blouses, Girls' Dresses, Infants' Creepers and Rompers, Girls' Polo or Sport Shirts, Boys' Polo or Sport Shirts, Girls' Nylon Sweaters, Children's Robes and Caps.
Claims use since Apr. 11, 1952.

Ser. No. 629,121. Pincus Bros. Incorporated, Philadelphia, Pa. Filed May 2, 1952.

County Dale

For Men's Suits, Sportcoats, Slacks, Topcoats, Vests, and Overcoats.
Claims use since Dec. 1, 1948.

Ser. No. 631,467. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed June 20, 1952.

Beauti-Nyl

The word "Beauti" is disclaimed apart from the mark as shown.
For Ladies' Hosiery.
Claims use since June 6, 1952.

Ser. No. 631,768. Von Frankel-Trester Hosiery Co., Chicago, Ill. Filed June 25, 1952.

Susan Gale

The name "Susan Gale" is the given name of a minor daughter of Allen Trester, a member of the applicant firm, the use and registration of said name having been consented to.
For Women's and Children's Hosiery.
Claims use since July 28, 1949.

Ser. No. 632,482. The H. D. Lee Company, Incorporated, Kansas City, Mo. Filed July 12, 1952.

BOSS of the ROAD



Applicant claims ownership of Registrations Nos. 119,354 and 236,939.
For Men's and Boys' Waistband Overalls, Bib Overalls, Overall Jackets, Work and Utility Trousers, Work and Utility Shirts, One-Piece Work Suits, Service or Shop Coats, Blouses, Tool and Shop Aprons, and Shop and Uniform Caps.
Claims use since June 24, 1952, as shown; and since 1880 in a different form.

Ser. No. 632,954. Periwinkle, Inc., New York, N. Y. Filed July 23, 1952.

Periwinkle

For Certain Garments for Children — Namely, Bath Robes, Pajamas, Overalls, Creepers, Jackets, Hats, Suits, and Dresses.
Claims use since Mar. 29, 1951.

Ser. No. 634,005. Wm. Schwartz & Co., Inc., Philadelphia, Pa. Filed Aug. 15, 1952.

Stormaway

For Children's Jackets, Coats, and Pants.
Claims use since Feb. 1, 1952.

Ser. No. 634,376. Lovisi Bros., New York, N. Y. Filed Aug. 23, 1952.



For Navy Uniforms.
Claims use since July 21, 1952.

Ser. No. 634,613. C. N. Stein, doing business as Ozark Leather Company, Waco, Tex. Filed Aug. 28, 1952.

SADDLE KING TOGS

The word "Togs" is disclaimed apart from the mark as shown.
For Western Clothing—Namely, Cowboy and Cowgirl Suits.
Claims use since on or about July 31, 1949.

Ser. No. 634,788. Jonathan Belt Co. Incorporated, New York, N. Y. Filed Sept. 3, 1952.

BELTS by Jonathan

The word "Belts" is disclaimed.
For Belts for Ladies, Young Ladies, and Children.
Claims use since May 22, 1952.

Ser. No. 635,578. Marjorie Benedikter, Inc. Division of North Shore Manufacturing Co., Duluth, Minn. Filed Sept. 22, 1952.

"Ski Mates"

The word "Ski" is disclaimed apart from the mark as shown.
For Men's, Women's, Boys', and Girls' Outerwear—Namely, Jackets, Trousers, Sweaters, Caps, Socks, Mitts, Parkas, Warm-Up Coats, and Scarves.
Claims use since July 2, 1952.

Ser. No. 635,594. Hanes Hosiery Mills Company, Winston-Salem, N. C. Filed Sept. 22, 1952.

BARELY THERE

For Women's Hosiery.
Claims use since Apr. 22, 1952.

Ser. No. 636,108. Angelica Uniform Company, St. Louis, Mo. Filed Oct. 3, 1952.

Angelica

Applicant claims ownership of Registration No. 225,700.
For Wearing Apparel—Namely, for Women: Dresses, Blouses, Skirts, Pinafores, Smocks, Aprons, Collars, Cuffs, Headbands, Bandettes, Work Gowns, Bed Gowns, Pajamas, and Robes; for Men: Coats, Pants, Outer Shirts, T-Shirts, Jackets, Vests, Suits, Sashes, Caps, Smocks, Work Aprons, Pajamas, Work Gowns, Robes, Neckerchiefs, Patient Gowns; and for Children: Bed Gowns, Pajamas, and Robes.
Claims use since 1948.

Ser. No. 636,341. City Stores Company, Philadelphia, Pa. Filed Oct. 8, 1952.

City Miss

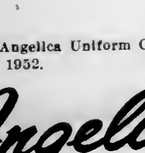
For Ladies' Coats and Suits.
Claims use since Aug. 1, 1952.

Ser. No. 636,530. Lobells, Inc., Hanover, Pa. Filed Oct. 11, 1952.

Lana Lobell

The name "Lana Lobell" is fanciful.
For Women's and Children's Dresses, Blouses, Skirts, Shorts, Bras, Pedal Pushers, and Beach Coats.
Claims use since Apr. 1, 1952.

Ser. No. 637,168. The Boss Manufacturing Company, Kewanee, Ill. Filed Oct. 25, 1952.



MONKEY FACE

Applicant claims ownership of Registrations Nos. 517,239 and 542,115.
For Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric.
Claims use since Oct. 17, 1952.

Ser. No. 637,170. The Boss Manufacturing Company, Kewanee, Ill. Filed Oct. 25, 1952.

MONKEY FACE

Applicant claims ownership of Registrations Nos. 517,239 and 542,115.
For Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric.
Claims use since Oct. 17, 1952.

Ser. No. 637,381. Jerry P. Lesley, Sunset, S. C. Filed Oct. 30, 1952.

VAN TASY

For Men's and Women's Knitted Shirts for Under or Outer Wear.
Claims use since Aug. 16, 1952.

Ser. No. 639,368. L. Greif & Bro., Inc., Baltimore, Md. Filed Dec. 12, 1952.

CANBERRA

For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since Sept. 5, 1952.

Ser. No. 639,667. E. & E. Shuwall Co., New York, N. Y. Filed Dec. 17, 1952.

Barbara Ann

For Children's Dresses.
Claims use since April 1945.

Ser. No. 639,672. Treo Company, Inc., Jamaica, N. Y. Filed Dec. 17, 1952.

FOREVER SPRING

For Corsets, Girdles, Brassières, and Foundation Garments.
Claims use since Oct. 10, 1952.

Ser. No. 639,673. Treo Company, Inc., Jamaica, N. Y. Filed Dec. 17, 1952.

Magicoil

For Corsets, Girdles, and Foundation Garments.
Claims use since Nov. 14, 1952.

Ser. No. 639,674. Treo Company, Inc., Jamaica, N. Y. Filed Dec. 17, 1952.

Miracoyl

For Corsets, Girdles, and Foundation Garments.
Claims use since Nov. 14, 1952.

Ser. No. 639,952. Plymouth Undergarment Co., New York, N. Y. Filed Dec. 23, 1952.

Plym-Skin

For Women's, Misses', and Children's Undergarments—Namely, Panties, Bloomers, Slips, Brassières, Girdles, and Garter Belts.
Claims use since Oct. 28, 1952.

Ser. No. 642,105. Le-Nor Undergarment Corp., New York, N. Y. Filed Dec. 5, 1952.

Meadowlark

Applicant claims ownership of Registration No. 341,525.
For Children's Undergarments—Namely, Panties, Slips, Pajamas, and Nightgowns.
Claims use since Sept. 2, 1948.

Ser. No. 642,185. Venus Foundation Garments, Inc., Chicago, Ill. Filed Feb. 12, 1953.

Envy

For Girdles and Panty Girdles.
Claims use since August 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 601,196. Brown & Ackerman, Inc., New York, N. Y. Filed July 25, 1950.



For Cotton Sateen Fabrics.
Claims use since Apr. 27, 1950.

Ser. No. 622,458. Plastic Film Products Corporation, Akron, Ohio. Filed Dec. 13, 1951.

fratex fashions

The word "Fashions" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 559,555.
For Plastic Film Goods—Namely, Window Curtains, Cottage Curtain Sets, Shower Curtains, Drapes, Window Valances, Ruffings for Rodless Curtains, Table Covers, Card Table Covers, Piece Goods, Bedspreads, and Crib Sheets.
Claims use since Apr. 5, 1950.

Ser. No. 623,695. Ruby D. Whitney, Chicago, Ill. Filed Jan. 16, 1952.

BUN COZY

The word "Bun" is disclaimed apart from the mark as shown on the drawing.
For Cloths for Hot Rolls.
Claims use since in or about January 1951.

Ser. No. 639,800. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga. Filed Dec. 20, 1952.

Royal Manor

For Rayon Carpeting and Cotton Carpeting.
Claims use since on or about Nov. 1, 1952.

Ser. No. 639,921. Dan River Mills, Incorporated, Danville, Va. Filed Dec. 23, 1952.

BIRCHTONE

For Textile Fabrics in the Piece of Cotton.
Claims use since Dec. 2, 1952.

Ser. No. 640,173. Tanbro Fabrics Corp., New York, N. Y. Filed Dec. 30, 1952.

Ironmite

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Goods.
Claims use since May 8, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 639,765. Clarence L. Meyers & Co., Philadelphia, Pa. Filed Dec. 19, 1952.

NYTRIM

For Cotton Yarn Twisted With a Nylon Filament Yarn.
Claims use since Nov. 14, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 626,009. Sunkist Growers, Inc., Los Angeles, Calif. Filed Mar. 5, 1952.

Sunkist

Applicant claims ownership of Registrations Nos. 72,087, 85,069, and others.
For Citrus Flavored Soft Drinks and Concentrates for Making the Same; and Citrus Fruit Products Used as Ingredients in Such Soft Drinks—Namely, Citric Acid, Citrus Oils, and Pectin.
Claims use since Feb. 8, 1930.

Ser. No. 629,127. The Shasta Water Company, San Francisco, Calif. Filed May 2, 1952.

bubbelation

For Carbonated Water.
Claims use since Apr. 21, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 517,088. Patterson Chocolates Limited, Toronto, Ontario, Canada. Original filed, act of 1920, Feb. 6, 1947; amended to application under act of 1946, Principal Register, Oct. 20, 1947.

WILDFIRE

The drawing is lined for yellow. Applicant claims ownership of Canadian Registration No. 175/38,851, dated Nov. 12, 1925.

For Chocolate Bars.

Ser. No. 553,968. Joseph Middleby Jr. Inc., Boston, Mass. Filed Apr. 6, 1948.

RED PAIL

Applicant makes no exclusive claim to a red colored pail. Applicant claims ownership of Registration No. 85,463.

For Glacé Cherries, Marshmallows, Fruit Jellies, and Fruit Fillings Used in the Baking of Pastries.

Claims use since 1936.

Ser. No. 563,368. S. A. Latterie Industriali Riunite L. I. R., Robbio, Lomellina, Italy. Filed Aug. 13, 1948.



For Cheese in Bulk Form.

Claims use since June 1, 1935.

Ser. No. 580,757. Sweden Freezer Manufacturing Company, also doing business under the name of Sweden Freezer Company, Seattle, Wash. Filed June 18, 1949. (Sec. 2f.)

SWEDEN FREEZE

For Ice Milk and Ice Milk Powder.

Claims use since on or about Jan. 1, 1937.

Ser. No. 581,009. Parkway Crushed Fruit Company, Louisville, Ky. Filed June 24, 1949.

Park-way

For Chocolate Flavored Syrup, Black Walnuts in Syrup, Butterscotch, Butterscotch Pecan Caramel, Cherries, Chocolate Fudge, Mixed Nuts in Maple Flavored Syrup, Pineapple, Red Raspberries, Strawberries, Tutti Frutti, Pineapple Syrup, Strawberry Puree, English Toffee Preparation, Vanilla Custard, Black Raspberries, Raspberry Syrup, Banana Syrup, Pineapple in Syrup, Black Cherries, Sliced and Crushed Peaches, Vanilla Syrup, Fruit Mix, Semi-Fresh Strawberries, Pineapple With Orange Flavor, Raspberry Juice, Strawberry Syrup, Apricot-Peach Mix, Orange Syrup, Marshmallow Topping, Lemon Custard, Fruit Salad, Peach Syrup, Loganberry Syrup, and Lime Syrup, for Use in Making Ice Cream Sodas, Ice Cream, and Also Used as Toppings for Ice Cream Sundaes.

Claims use since May 21, 1924.

Ser. No. 588,622. American Stores Company, Philadelphia, Pa. Filed Dec. 1, 1949.



Ideal

Applicant claims ownership of Registrations Nos. 50,065, 52,923, and others.

For Canned Apple Sauce, Apple Butter, Tomato Catsup, Chili Sauce, Canned Apricots, Canned Peaches, Canned Pineapple, Canned Pears, Canned Fruit Cocktail, Canned Plums, Canned Cherries, Canned Grapefruit, Canned Orange and Grapefruit, Maraschino Cherries, Lemon Juice, Mince Meat, Canned Corn Meal Mush, Prepared Mustard, Canned White Potatoes, Canned Sweet Potatoes, Spaghetti Sauce, Cranberry Sauce, Canned Grapefruit Juice, Canned Orange and Grapefruit Juice, Canned Orange Juice, Prune Juice, Fruit Preserves, Jellies, Canned Pumpkin, Canned Beans in Tomato Sauce, Cane and Maple Syrup, Canned Tomatoes, Canned Tomato Puree, Canned Corn, Canned Peas, Canned Green Beans, Canned Beets, Canned Asparagus, Canned Spinach, Canned Succotash, Canned Sauerkraut, Canned Carrots, Canned Peas and Carrots, Canned Lima Beans, Canned Assorted Vegetables, Canned Beans With Pork in Tomato Sauce, Canned Kidney Beans, Vinegar, Peanut Butter, Canned Tomato Paste, Canned Wax Beans.

Claims use since Oct. 10, 1949.

Ser. No. 591,638. Roethlisberger & Sohn A. G., trading also as Roethlisberger & Fils, S. A., Langnau, Berne Canton, Switzerland. Filed Jan. 28, 1950.



The lining on the drawing is not representative of color. Applicant claims ownership of Swiss Registration No. 130,825, dated Sept. 24, 1949.

For Cheese.

Ser. No. 599,206. Distributors Trucking Corporation, New York, N. Y. Filed May 15, 1950. (Sec. 2f.)

SARANAC

For Wheat Flour.

Claims use since Aug. 11, 1919.

Ser. No. 600,825. Thomas A. Duthie, doing business under the assumed business name of Duthie & Company, Portland, Oreg. Filed July 18, 1950.

ENSIGN

Applicant claims ownership of Registration No. 189,306.

For Fresh Apples and Pears.

Claims use since Feb. 15, 1924.

Ser. No. 601,499. Hickmott Canning Co., Antioch, Calif. Filed July 31, 1950.

EL CAPITAN

Applicant claims ownership of Registration No. 121,895.

For Canned Fruits, Canned Vegetables, and Canned Deciduous Fruit Juices.

Claims use since Jan. 1, 1892.

Ser. No. 602,373. Mrs. Condies Salad Company, Salt Lake City, Utah. Filed Aug. 18, 1950. (Sec. 2f.)



For Washed and Prepared Raw Vegetables Packaged as Single Variety or as a Mixture of Varieties.

Claims use since on or about Apr. 25, 1938.

Ser. No. 608,539. Fine Foods, Inc., Seattle, Wash. Filed Jan. 9, 1951.

Standby

Applicant claims ownership of Registrations Nos. 206,190, 208,091, 353,451, and 377,271.

For Canned Fruits, Canned Fruit Cocktail, Canned Applesauce, Canned Berries, Canned Cranberry Sauce, Canned Deciduous and Citrus Fruit Juices, Canned Vegetable Juices, Canned Vegetables, Canned Hominy, Canned Sauerkraut, Chili Sauce, Tomato Catsup, Canned Tomato Sauce, Canned Fish, Canned Shellfish, Apple Butter, Maraschino Cherries, Canned Mushrooms, Canned Olives, Olives in Glass, Peanut Butter, Canned Brown Bread, Canned Evaporated Milk, Dried Fruits, Vinegar, Jellies, Fruit Preserves, Honey, Breakfast Cereals, Fresh Deciduous Fruits and Fresh Citrus Fruits, Jams, Cane and Maple Syrup, and Canned Baked Beans With Pork.

Claims use since August 1925.

Ser. No. 614,137. Joseph F. Defrates, Springfield, Ill. Filed May 21, 1951.



Applicant disclaims the use of the words "Chilli" and "Hot Chilli" except as shown in the drawing.

For Chilli Mix, Consisting of Chilli Pods, Comino, Oregano, Onion and Garlic Powder, Sold in Cans.

Claims use since May 2, 1951.

Ser. No. 615,429. D. E. Winebrenner Company, Inc., Hanover, Pa. Filed June 19, 1951. (Sec. 2f.)



The word "Brand" is disclaimed from the mark apart from the mark as shown.

For Canned Vegetables, and Canned Vegetable Juices.

Claims use since Apr. 5, 1935.

Ser. No. 615,550. Halben Food Manufacturing Co., Inc., St. Louis, Mo. Filed June 22, 1951. (Sec. 2f.)

BAYLE Quality

The word "Quality" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 31,805, 249,214, and 533,462.

For Barbecue Sauce, Chop Suey Sauce, French Dressing, Hot Dog Sauce, Imitation Lemon Flavor, Imitation Vanilla, Marshmallow Creme, Mayonnaise, Mustard, Horseradish Mustard, Salad Dressing, Pancake Syrup, Sandwich Spread, Steak Sauce, and Worcestershire Sauce.

Claims use since Nov. 6, 1927, as shown; and since May 1895, as to the term "Bayle Quality."

Ser. No. 616,086. Karl Droge - Ice Cream, Brooklyn, N. Y. Filed July 5, 1951.



The words "Recommends Itself" and the word "Cups" are hereby disclaimed. The portrait is that of Carolyn Betty Droge, the daughter of a member of the firm, whose consent is of record in this application.

For Ice Cream.

Claims use since July 1, 1950.

Ser. No. 616,840. Alabama Coffee Co., Sheffield, Ala. Filed July 24, 1951.

Old-Gold

Applicant claims ownership of Registration No. 263,409.
For Coffee, Sandwich Spread, Peanut Butter, Apple Butter, Tea, and Pickles.
Claims use since May 1, 1929.

Ser. No. 618,437. Velvet Freeze, Inc., St. Louis, Mo. Filed Sept. 4, 1951.

WONDER-FREEZE

The word "Freeze" is disclaimed apart from the mark.
For Pre-Packed and Bulk Ice Cream.
Claims use since Jan. 1, 1935.

Ser. No. 618,697. Fairmont Foods Company, Omaha, Nebr. Filed Sept. 12, 1951. (Sec. 2f as to "Fairmont.")

FAIRMONT

Applicant claims ownership of Registration No. 167,024.
For Butter, Fresh Frozen and Dried Eggs, Fluid Milk, Buttermilk, Ice Cream, Ice Cream Tarts, Ice Cream Roll, American Cheese, Cottage Cheese, Chocolate Flavored Milk, Frozen Chicken and Frozen Parts of Chicken.
Claims use since Mar. 22, 1949 on the mark as shown; and since May 1884 as to "Fairmont."

Ser. No. 621,265. Philip F. Hartman, doing business as Sno-Frozen Products Co., Redwood City, Calif. Filed Nov. 15, 1951.

TWINS 2-in-1 FRESH FROZEN BABY FOODS BRAND

The words "Fresh Frozen Baby Foods" and "Brand" are disclaimed apart from the mark as shown.
For Processed Fresh Frozen Baby Foods—Namely, Chopped Broccoli and Cooked Squash.
Claims use since Sept. 12, 1951.

Ser. No. 621,655. Burrus Mills, Incorporated, doing business under the name and style of "Liberty Mills" and "Burrus Feed Mills," San Antonio and Fort Worth, Tex. Filed Nov. 26, 1951.

TEXO WORK-SAVER

Applicant claims ownership of Registrations Nos. 389,182, 411,365, and 530,271.
For Range Feed and Protein-Enriched Range Feed.
Claims use since Aug. 23, 1951.

Ser. No. 623,837. Hygeia Milk Products Co., Harlingen, Tex. Filed Jan. 21, 1952.

NUTTIE NIBBLE

The word "Nuttie" is disclaimed apart from the mark as shown.
For Ice Cream Bar.
Claims use since June 17, 1951.

Ser. No. 624,837. Lady Baker, Inc., Chicago, Ill. Filed Feb. 12, 1952.

Lady Baker

For Prepared Custards; Cake and Pastry Frostings; Jams, Jellies, and Fruit Preserves.
Claims use since Dec. 1, 1951.

Ser. No. 624,997. Brookfield Orchards, Inc., North Brookfield, Mass. Original filed, act of 1946, Supplemental Register, Feb. 15, 1952; amended to application, Principal Register, Mar. 16, 1953.

For Fresh Apples.
Claims use since Feb. 1, 1950.

Ser. No. 625,086. Wilson & Co., Inc., Chicago, Ill. Filed Feb. 16, 1952.

4-PAW

For Food for Dogs and Cats.
Claims use since on or about July 5, 1951.

Ser. No. 627,159. Wilkins-Rogers Milling Company, Inc., Washington, D. C. Filed Mar. 27, 1952.

INDIAN HEAD

The picture of the Indian chief is fanciful.
For Corn Meal.
Claims use since 1914.

Ser. No. 629,161. Flavor Corporation of America, Chicago, Ill. Filed May 3, 1952.

HYDROSOL

For Concentrated Food Flavoring Material Containing Spice Essential Oils.
Claims use since Apr. 18, 1952.

Ser. No. 629,212. Morita Bros., Anaheim, Calif. Filed May 5, 1952.

MIGHTY MO'

For Fresh Fruits and Vegetables.
Claims use since Apr. 18, 1952.

Ser. No. 629,306. Kenneth R. McCoy, doing business as The Real McCoy Products Co., St. Paul, Minn. Filed May 7, 1952.

FREEZDRESS

For Salad Dressing.
Claims use since Mar. 27, 1952.

Ser. No. 629,314. Norman W. Hill, doing business as M. J. Laughery Company, Pittsburgh, Pa. Filed May 7, 1952. (Sec. 2f as to "Laughery.")

Laughery

For Tea, Coffee, Vinegar, Mustard, Catsup, Mayonnaise, Salad Dressings, Sauces for Meat, Pickle Relishes, Spices, Pickles, Olives, Table Salt, Cheese, Jellies, Flavor Extracts and Syrups for Food Purposes, Food Colorings, Alimentary Pastes, Breakfast Cereal in the Form of Oats, Cornstarch, Wheat Flour, Cake Mixes, Dried Prepared Pudding Mixes, Canned Fruits, Canned Vegetables, Canned Fish, Canned Spaghetti Sauce With Meat, and Canned Pork and Beans.
Claims use since January 1942.

Ser. No. 629,472. California Berry Freezers, Inc., Watsonville, Calif. Filed May 10, 1952.

BERRY KING

No claim is made to the word "Berry" apart from the mark as shown.
For Fresh Strawberries and Frozen Fresh Strawberries.
Claims use since June 18, 1951.

Ser. No. 630,682. Sabrett Food Products, Corp., Jersey City, N. J. Filed June 3, 1952.

COUNTRY GIRL

For Frankfurters.
Claims use since Oct. 9, 1951.

Ser. No. 631,233. Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Filed June 16, 1952.

SUPER "G"

No exclusive claim is made to the word "Super" apart from the mark as shown in the drawing.
For Mono and Di-Glycerides, Used as an Ingredient in Vegetable Oil Food Products and/or Bakery Products.
Claims use since May 15, 1952.

Ser. No. 631,517. Cia. Anma. Toddy Venezolana, Caracas, Venezuela. Filed June 25, 1952.

YUKERY

Applicant claims ownership of Registration No. 366,086.
For Canned Fruit Juices and Frozen Fruit Juices.
Claims use since Nov. 18, 1949, and since Jan. 15, 1952, in commerce between foreign nations and the United States.

Ser. No. 631,785. Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y. Filed June 26, 1952.

GOLDEN NET

For Canned Tuna Fish, Sardines, and Kippered Herrings.
Claims use since Mar. 28, 1952.

Ser. No. 632,407. Abbotts Dairies, Inc., Philadelphia, Pa. Filed July 11, 1952. (Sec. 2f.)

MAYFIELD

For Ice Cream and Sherbets.
Claims use since March 1947.

Ser. No. 633,407. Richard Bagdasarian & Co., Thermal, Calif. Filed Aug. 2, 1952.

Mr. Grape

The representations of the grapes and the word "Grape" are disclaimed.
For Fresh Grapes.
Claims use since June 8, 1952.

Ser. No. 633,454. Kasco Mills, Inc., Toledo, Ohio. Filed Aug. 4, 1952.

Ranger Rounds

The word "Rounds" is disclaimed.
For Steer Feeds.
Claims use since July 25, 1952.

Ser. No. 634,069. Arizona Citrus Growers, Phoenix, Ariz. Filed Aug. 18, 1952.

ARIZONA CACTUS

Exclusive right to the use of the word "Arizona" apart from the mark shown is not claimed. Applicant claims ownership of Registration No. 205,941.
For Fresh Citrus Fruits.
Claims use since 1929.

Ser. No. 634,668. Valley Evaporating Company, Yakima, Wash. Filed Aug. 29, 1952.

TRITON

Applicant claims ownership of Registrations Nos. 239,096, 407,411, and 507,367.
For Dehydrated Fruits, Jams, Jellies, Fruit Preserves, Canned Prune Juice, and Canned Fruit Juices Not Including Grape Juice, Pickles, and Table Syrup.
Claims use since July 22, 1927.

Ser. No. 635,228. John Mackintosh & Sons Limited, Halifax, England. Filed Sept. 13, 1952.

Toff-o-Mints

Applicant disclaims the word "Mints" except as shown. Applicant claims ownership of Registration No. 368,748.
For Mint-Flavoured Candy.
Claims use since Apr. 23, 1952.

Ser. No. 635,783. The Park and Pollard Company, Inc., Buffalo, N. Y. Filed Sept. 25, 1952.

MILK UNITS

Applicant claims no registration rights for the word "Milk" apart from the mark as shown.
For Dairy Feeds.
Claims use since Sept. 4, 1952.

Ser. No. 636,466. Converted Rice, Inc., Houston, Tex. Filed Oct. 10, 1952. (Sec. 2f.)

EACH GRAIN SALUTES YOU

Applicant claims ownership of Registrations Nos. 436,999 and 512,958.
For Rice for Food.
Claims use since Jan. 24, 1947.

Ser. No. 637,256. House of Huston, Inc., Miami, Fla. Filed Oct. 27, 1952.

SONG FEAST

No claim is made to the exclusive use of the word "Feast" and the representation of a canary, apart from the mark shown in the drawing.
For Bird Seed.
Claims use since Mar. 10, 1952.

Ser. No. 637,276. Harvey Brothers, Swanton, Md. Filed Oct. 28, 1952.

MOUNTAIN CREST

No claim is made to the representation of potatoes apart from the mark as shown in the drawing.
For Potatoes in Their Natural State.
Claims use since Sept. 1, 1949.

Ser. No. 637,477. Brooks, Inc., Homestead, Fla. Filed Nov. 1, 1952.

MIAMI PRIDE

No claim is made to the name "Miami" apart from the mark as shown.
For Fresh Limes, Avocadoes, and Mangoes.
Claims use since Oct. 16, 1952.

Ser. No. 637,531. Bakers Associates Incorporated, Chicago, Ill. Filed Nov. 3, 1952.

Miss Nineteen

For Bread and Bread Mix.
Claims use since Sept. 26, 1952.

Ser. No. 638,780. Paul P. Schoenburg, doing business as Schoenburg Bros. Produce Company, Salinas, Calif. Filed Nov. 29, 1952.

Nine Brothers

Applicant claims ownership of Registrations Nos. 371,540 and 308,603.
For Fresh Vegetables.
Claims use since Oct. 16, 1951, as shown; and since May 15, 1930, as to "Nine Brothers."

Ser. No. 639,360. Arrow Packing Co., Exeter, Calif. Filed Dec. 12, 1952.

ARROPAK

Applicant claims ownership of Registrations Nos. 226,104 and 226,105.
For Fresh Grapes.
Claims use since Oct. 16, 1952.

Ser. No. 639,655. Lectra M. Poli, Sula, Mont. Filed Dec. 17, 1952.

LECTRA'S

For Hot Cake Flour.
Claims use since July 30, 1952.

Ser. No. 640,641. Marco Pet Food Co., Huntington Park, Calif. Filed Jan. 12, 1953.

DART

For Canned Dog and Cat Food, Containing Meat By-Products, Cracked Hulled Barley, Bran, Fresh Carrots, Soya Grits, and Salt, With Added Water.
Claims use since August 1940.

Ser. No. 640,642. Marco Pet Food Co., Huntington Park, Calif. Filed Jan. 12, 1953.

SET-UP

For Canned Dog and Cat Food, Containing Water, Meat Meal, Barley, Meat By-Products, Salt and Garlic.
Claims use since June 1940.

Ser. No. 640,676. Fanny Farmer Candy Shops, Inc., Rochester, N. Y. Filed Jan. 13, 1953.

Fanny Farmer

The mark was the name of an individual, now deceased. Applicant claims ownership of Registration No. 126,844.
For Maple Syrup, Assorted Fruits in Corn Syrup, Raspberry Jam, Raspberry Preserve, Strawberry Preserve, Grape Preserve, Grape Jam, and Orange Marmalade.
Claims use since 1923.

Ser. No. 640,865. Ruth N. Meyer, doing business as R. N. Meyer Co., Beverly Hills, Calif. Filed Jan. 16, 1953.

SKILL

For Food Seasoning Comprised of Salt, Garlic, Spices, and Herbs.
Claims use since Nov. 4, 1952.

Ser. No. 640,890. Frank M. Nonaka, doing business as F. M. Nonaka & Co., San Francisco, Calif. Filed May 3, 1952.

SAKURA

The mark is the Japanese word meaning "Rose."
For Rice and Tea.
Claims use since in the year 1928.

Ser. No. 640,940. H. Kohnstamm & Co., Inc., New York, N. Y. Filed Jan. 19, 1953.

ATLENE

For Food Colors.
Claims use since June 27, 1950.

Ser. No. 641,819. Wm. Wrigley Jr. Company, Chicago, Ill. Filed Feb. 5, 1953.

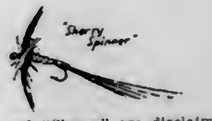
DOUBLEMINT

Applicant claims ownership of Registrations Nos. 102,000 and 102,001.
For Chewing Gum.
Claims use since 1914.

CLASS 47
WINES

Ser. No. 622,254. Findlater Mackie Todd & Co. Limited, London, England. Filed Dec. 8, 1951.

DRY FLY



The words "Dry" and "Sherry" are disclaimed apart from the mark in its entirety as shown in the drawing.
For Sherry Wine.
Claims use since October 1937.

CLASS 49
DISTILLED ALCOHOLIC LIQUORS

Ser. No. 635,561. Peter Walker (Warrington) Limited, Liverpool, England. Filed Sept. 20, 1952.



No claim is made to the exclusive use of the wording "Tasters' Choice" apart from the mark shown in the drawing. The names of the persons in the picture are,

reading from left to right, standing, Andrew B. Walker, Robert Eaton, James Browne, and J. Stockton (seated on the upright barrel), and seated in front are Robert Davies and Jos. Rodgers, all deceased.

For Scotch Whisky.

Claims use since Mar. 3, 1932.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 619,744. Creative Plastics Corp., Stony Brook, N. Y. Filed Oct. 9, 1951.

PLASTALLION

For Mountings of Transparent Plastic for the Display of Objects, Which Objects Are Embedded in Such Plastic Mountings.

Claims use since May 1951.

Ser. No. 629,478. Corn States Advertising Service, Inc., Des Moines, Iowa. Filed May 10, 1952.

Chalk Talk

The word "Chalk" is disclaimed apart from the mark as shown.

For Home Blackboard.

Claims use since Mar. 15, 1952.

Ser. No. 639,978. American Felt Company, Glenville, Conn. Filed Dec. 24, 1952. (Sec. 2f.)

VIBRA-MOUNT

Applicant claims ownership of Registration No. 502,215.

For Felt Pads Used as Vibration Absorbing and Non-Skid Mountings.

Claims use since May 16, 1946.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 594,918. Parfumerie Gelle Freres, Societe a Responsabilite Limitee, and trading as Gelle Freres, Paris, France. Filed Mar. 30, 1950. (Sec. 2f.)



GELLÉ FRÈRES

The mark of the applicant as far as the design is concerned is a vignette representing a seated woman upon clouds, with a picture of a swan as well as two children and birds, the whole surmounted by a star with the wording "Gelle Freres."

For Perfume, Cologne, Toilet Water.

Claims use since 1826 in France; and first used in commerce between France and the United States in 1895.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 604,888. Haenonis Indian Dancers, Glenbrook, Conn. Filed Sept. 29, 1950.



The drawing is lined to indicate the colors red, black, green, and yellow.

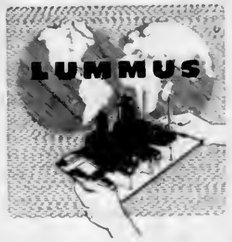
For Stimulating Interest in the History, Civilization, Customs, Culture, Trades, and Skills of the American Indian and Emphasizing Particularly the Legends and the Dances of the Indian Through Displays, Lectures, and Demonstrations.

Claims use since Feb. 20, 1949.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 630,849. The Lummus Company, New York, N. Y. Filed June 6, 1952. (Sec. 2f as to "Lummus.")



The representation of the chemical plant is disclaimed apart from the mark as shown. The drawing is lined for the colors green and gray. Applicant claims ownership of Registrations Nos. 373,267, 520,800, 526,594, and 530,898.

For Construction of Chemical Plants and Petroleum Refining Process Units and Associated Equipment.

Claims use since January 1951 on the mark as shown; and since 1913 on the word "Lummus."

Ser. No. 634,228. Robert Owen Williams, doing business under the name of R. O. Williams Co., Evansville, Ind. Filed Aug. 20, 1952.

AARD-VARK

For Pest Extermination Service in Buildings and Other Structures by Chemicals and Traps.

Claims use since July 22, 1952.

Ser. No. 635,760. General American Transportation Corporation, Chicago, Ill. Filed Sept. 25, 1952. (Sec. 2f.)

GENERAL AMERICAN

Applicant claims ownership of Registration No. 136,006.

For Maintaining and Repairing of Railroad Freight and Express Cars and Automotive Vehicles.

Claims use since May 20, 1948, on the mark as shown; and since 1916 on the words "General American."

CLASS 106

MATERIAL TREATMENT

Ser. No. 593,596. Hughes Tool Company, Houston, Tex. Filed Mar. 8, 1950. (Sec. 2f.)

FLASH-WELD

For Welding Tool Joints to Drill Pipe.

Claims use since Feb. 12, 1940.

Ser. No. 625,000. Cold Spring Bleachery, Yardley, Pa. Filed Feb. 15, 1952.

Dela-Set

No claim being made to the word "Set" apart from the mark as shown.

For Bleaching, Mercerizing, Dyeing, Printing, and Shrinking of Textile Fabrics.

Claims use since December 1951.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1905

444,773. Waterproof Paint Coating for Porous Stucco, Concrete, and Brick Wall Surfaces, in the Form of a Water Miscible Powder. Armor Laboratories, Inc., Glendale, Calif.
Filed Mar. 19, 1945, Serial No. 481,039. Published Jan. 6, 1953. Class 16.

ACT OF 1946, PRINCIPAL REGISTER

574,805. Examination Books. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Apr. 26, 1952, Serial No. 526,191. Published Dec. 30, 1952. Class 37.

574,806. Paints Sold in Ready-Mixed and Paste Form, Paint Enamels, Varnishes, Creosote Stains, and Wood Filler. Missouri Paint & Varnish Co., St. Louis, Mo.
Filed Aug. 27, 1947, Serial No. 532,619. Published Aug. 26, 1952. Class 16.

574,807. Spirit Levels. The Sand's Level and Tool Company, Detroit, Mich.
Filed Oct. 30, 1947, Serial No. 539,569. Published Jan. 13, 1953. Class 26.

574,808. Rolling Mill Machinery; Hot Transfer Machinery; Hot Transfer Drives, Etc. Treadwell Engineering Company, Easton, Pa.
Filed Jan. 15, 1948, Serial No. 547,194. Published Feb. 10, 1953. Class 23.

574,809. Pipe Making Machines; Grain Mills; Cold Rolling Mills (Small); and Machines for Casting Wheels. Treadwell Engineering Company, Easton, Pa.
Filed Jan. 15, 1948, Serial No. 547,195. Published Feb. 10, 1953. Class 23.

574,810. Fresh Citrus Fruits. Exeter Orange Growers Association, also doing business as Cooperative Citrus Association, Exeter, Calif.
Filed Apr. 19, 1948, Serial No. 554,968. Published Sept. 23, 1952. Class 46.

574,811. Hair Shampoo. Louis J. Feldman, doing business as Allied Pharmetics Co., Plainfield, N. J., assignor to Parfums Corday, Inc., New York, N. Y., a corporation of New York.
Filed Aug. 23, 1948, Serial No. 563,847. Published Jan. 31, 1950. Class 52.

574,812. Power Operated Vibrating Machines for Concrete Placement, Soil Compaction, Highway Paving, and Similar Uses. Electric Tamper & Equipment Co., Ludington, Mich.
Filed Oct. 21, 1948, Serial No. 567,395. Published Dec. 30, 1952. Class 23.

574,813. Bicycles and Parts Thereof—Namely, Brakes, Luggage Carriers, Etc. Arnold, Schwinn & Co., Chicago, Ill.
Filed Nov. 12, 1948, Serial No. 568,564. Published Feb. 24, 1953. Class 19.

574,814. Stencils. A. C. Gibson Co. Inc., Buffalo, N. Y.
Filed Nov. 13, 1948, Serial No. 568,727. Published Dec. 30, 1952. Class 37.

574,815. Space Deodorant. Bridgeport Brass Company, Bridgeport, Conn.
Filed Dec. 31, 1948, Serial No. 571,402. Published Feb. 10, 1953. Class 6.

574,816. Room Deodorants. Casco Products Corporation, Bridgeport, Conn.
Filed Feb. 5, 1949, Serial No. 573,355. Published Feb. 10, 1953. Class 6.

574,817. Dyestuffs, Dyes, Sizings, and Bleaches for Textiles. Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann, Paris, France.
Filed Feb. 18, 1949, Serial No. 574,105. Published Mar. 3, 1953. Class 6.

574,818. Tablets for the Organic Fixation of Phosphorous, Calcium and Iron, Useful in Convalescence, Etc. Pharmacie Principale de la Porte d'Orleans, doing business as Laboratoire Ertima, Paris, France.
Filed Mar. 4, 1949, Serial No. 574,022. Published Feb. 10, 1953. Class 18.

574,819. Preparation That Can Be Used for External Application for Bed Sores and Other External Infections and May Be Taken Internally for Its Iodine Content but Its Use Being Only on the Prescription of a Physician. Bernard Chiego, doing business under the name of Bioresearch Laboratories, Newark, N. J.
Filed Mar. 11, 1949, Serial No. 575,243. Published Oct. 7, 1952. Class 18.

574,820. Floor Patching and Resurfacing Materials Comprising an Emulsion of Asphalt, Certain Aggregates and Other Ingredients Applicable to Floor Surfaces as a Thick Coating. Maintenance Inc., Wooster, Ohio.
Filed Apr. 19, 1949, Serial No. 577,395. Published Apr. 15, 1952. Class 12.

574,821. Cabinets for Dispensing Paper Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed June 22, 1949, Serial No. 580,868. Published Feb. 17, 1953. Class 2.

574,822. Mining Coal Planers, Mining Chutes, Coal Conveyors, Disk Retarding Conveyors, Coal Rake Pull Loaders, Etc. Gewerkschaft Eisenhütte Westfalia, Wethmar, near Lunen, Westphalia, Germany.
Filed June 23, 1949, Serial No. 580,934. Published Feb. 3, 1953. Class 23.

574,823. Dentrifices for Tobacco Smokers. Roger Maçon, Vanves, France.
Filed July 23, 1949, Serial No. 582,438. Published Feb. 24, 1953. Class 51.

574,824. Weather Measuring Instruments and Indicators—Namely, Anemoscopes, Wind Direction and Wind Speed Indicators. Aaron Davis, Harwichport, Mass.
Filed Aug. 10, 1949, Serial No. 583,080. Published Oct. 7, 1952. Class 26.

574,825. Vibrating Screens. Productive Equipment Corporation, Chicago, Ill.
Filed July 18, 1949, Serial No. 584,947. Published Jan. 20, 1953. Class 23.

574,826. Mattresses, Box Springs, Bed Springs, Beds, and Pads in the Nature of Mattresses for Children's Carriages, Chairs, Beds, and Play Pens. Enterprise-Moakler Co. Inc., Cambridge, Mass.
Filed Sept. 23, 1949, Serial No. 585,222. Published Jan. 15, 1952. Class 32.

574,827. Perfumes, Face Powder, Face Cream, Hair Tonic, Hair Dye, Suntan Lotion, Shaving Cream, Toothpaste, Bathsalts, Cologne, Perfumed Hand and Face Lotions, Talcum Powders, Pomades and Toilet Waters, and Nail Polish. Union Trading Company, Ltd., Basel, Switzerland.
Filed Oct. 15, 1949, Serial No. 586,369. Published Feb. 17, 1953. Class 51.

574,828. Perfumes, Face Powder, Face Cream, Hair Tonic, Hair Dye, Suntan Lotion, Shaving Cream, Toothpaste, Bathsalts, Cologne, Perfumed Hand and Face Lotions, Talcum Powders, Pomades and Toilet Waters, and Nail Polish. Union Trading Company, Ltd., Basel, Switzerland.
Filed Oct. 15, 1949, Serial No. 586,376. Published Feb. 17, 1953. Class 51.

574,829. Billiard Balls. Albany Billiard Ball Company, Albany, N. Y.
Filed Nov. 3, 1949, Serial No. 587,226. Published Feb. 24, 1953. Class 22.

574,830. Artificial Fishing Lures. The Hofachneider Corporation, Rochester, N. Y.
Filed Nov. 9, 1949, Serial No. 587,552. Published Mar. 3, 1953. Class 22.

574,831. Nasal Spray Preparation. Na-Spra, Incorporated, St. Louis, Mo.
Filed Dec. 22, 1949, Serial No. 589,709. Published Feb. 10, 1953. Class 18.

574,832. Machinery and Equipment Used in the Graphic Arts Industry: Cameras, and Apparatus for Preparing Printing Plates—Namely, Burn-In Ovens, Printing Frames, Combined Whirlers, and Etching Tubs. Jones Graphic Products Company, Albuquerque, N. Mex.
Filed Dec. 31, 1949, Serial No. 590,226. Published Mar. 10, 1953. Class 26.

574,833. Paint Additives, Such Liquid or Paste Additives Being for the Purpose of Decreasing the Sagging, Silking, Flooding, or Floating Tendency, Improving the Gloss, Hardness, Color, Toughness, Dryness, Brilliance, and/or Water and Weather Resistance of Paints. Raymond Hepner, doing business under the name Raybo Chemical Company, Cleveland, Ohio, assignee of Edith H. Carpe.
Filed Jan. 23, 1950, Serial No. 591,280. Published Mar. 3, 1953. Class 16.

574,834. Detergent Composition for Washing Glassware, Decorated- and Overglazed-Dinnerware and Ceramic ware. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Jan. 26, 1950, Serial No. 591,533. Published Oct. 16, 1951. Class 52.

574,835. Ladies' Handbags and Pocketbooks. Original Handbag Co., New York, N. Y.
Filed Feb. 8, 1950, Serial No. 592,159. Published Feb. 24, 1953. Class 3.

574,836. Accounting Textbooks. Charles R. Hadley Company, Los Angeles, Calif.
Filed Mar. 3, 1950, Serial No. 593,346. Published Mar. 3, 1953. Class 38.

574,837. Projection Screens, Film Projectors, and Parts Thereof. Trans-Lux Corporation, New York, N. Y.
Filed Mar. 28, 1950, Serial No. 594,817. Published Jan. 27, 1953. Class 26.

574,838. Ready-Mixed Flat Paint. Eagle Paint & Varnish Works, Inc., Long Island City, N. Y.
Filed Apr. 1, 1950, Serial No. 595,067. Published Mar. 3, 1953. Class 16.

574,839. Fresh and Canned Asparagus. Zuckerman Mandeville Inc., Stockton, Calif.
Filed Apr. 7, 1950, Serial No. 595,435. Published Feb. 3, 1953. Class 46.

574,840. Cigars. Thompson & Company, Inc., Tampa, Fla.
Filed Apr. 12, 1950, Serial No. 595,628. Published Mar. 10, 1953. Class 17.

574,841. Pharmaceutical Preparation for Intramuscular Injection for Use in the Treatment of Arthritis, Hypertension, Muscle Spasm, and Poliomyelitis. Physiological Chemicals Company, Inc., New York, N. Y.
Filed Apr. 25, 1950, Serial No. 596,294. Published Feb. 10, 1953. Class 18.

574,842. Beach Mats, Which May Be Used on the Beach to Sit on, and Which May Be More or Less Air-Filled and Used in the Water as a Temporary Float or Air Mattress. Abercrombie & Fitch Company, New York, N. Y.
Filed May 12, 1950, Serial No. 597,309. Published Mar. 3, 1953. Class 22.

574,843. Decorative Exterior and Interior Stucco Paint and Plastic Paint for Roofs. Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala.
Filed May 26, 1950, Serial No. 598,197. Published Mar. 3, 1953. Class 16.

574,844. Bristol Board, Bristol Board in Pad Form, Etc. Institute of Commercial Art, Inc., New York, N. Y.
Filed May 27, 1950, Serial No. 598,257. Published Dec. 30, 1952. Class 37.

574,845. Non-Corrosive Metal Adjustment Slides, Fasteners, and Rings for Use on Sanitary Belts. Beltx Corporation, St. Louis, Mo.
Filed May 31, 1950, Serial No. 598,348. Published Dec. 30, 1952. Class 40.

574,846. Geophysical Transformers. Triad Transformer Mfg. Co., Los Angeles, Calif.
Filed June 5, 1950, Serial No. 598,618. Published Feb. 24, 1953. Class 21.

574,847. Frozen Raw Beef Steaks. Grand Duchess Steaks, Inc., Akron, Ohio.
Filed July 7, 1950, Serial No. 600,332. Published June 24, 1952. Class 46.

574,848. Key Chains. Helenhart Novelty Corporation, New York, N. Y.
Filed July 10, 1950, Serial No. 600,435. Published Mar. 10, 1953. Class 13.

574,849. Paper Napkins. Irving W. Berkman, doing business as Berkman Paper Co., New York, N. Y.
Filed July 11, 1950, Serial No. 600,464. Published Dec. 30, 1952. Class 37.

574,850. Cameras, Camera Magazines, Photographic Viewfinders, Film, Film Winding Machines and Plates, Photocomposing Machines, Stereoscopes, Photogrammetric Plotting Instruments and Photoelectric Engraving Machines. Fairchild Camera and Instrument Corporation, Jamaica, N. Y.
Filed July 15, 1950, Serial No. 600,750. Published Jan. 13, 1953. Class 26.

574,851. Crayon-Like Marking Implements for Marking on Metal, Wood, Cardboard, Porcelain, Glass, Marble, Etc. The Markal Co., Chicago, Ill.
Filed July 26, 1950, Serial No. 601,268. Published Dec. 30, 1952. Class 37.

574,852. Waterproof Paints. Arthur C. Mangels Industries, Philadelphia, Pa.
Filed Aug. 3, 1950, Serial No. 601,681. Published Mar. 3, 1953. Class 16.

574,853. Lenses for Eyeglasses, Prisms for Optical Use, Prismatic Monocles, Opera Glasses, and Magnifying Glasses. Filotecnica Salmoiraghi S. A., Milan, Italy.
Filed Aug. 8, 1950, Serial No. 601,897. Published Jan. 13, 1953. Class 26.

574,854. Wallets. Anson, Incorporated, Providence, R. I.
Filed Sept. 28, 1950, Serial No. 604,136. Published Mar. 3, 1953. Class 3.

574,855. Grooved Phonograph Records and Non-Electrical and Non-Magnetized Recording Wire and Recording Tape, and Gramophones and Gramophone Needles. C. Schous Fabriker A/S, Copenhagen, Denmark.
Filed Aug. 18, 1950, Serial No. 604,336. Published Mar. 10, 1953. Class 36.

574,856. Wrapping Paper and Butchers' Paper. Gulf States Paper Corporation, Tuscaloosa, Ala.
Filed Oct. 19, 1950, Serial No. 605,160. Published Dec. 30, 1952. Class 37.

574,857. Medicinal Product Containing Procaine Penicillin and Potassium Penicillin for Aqueous Injection. Schenley Laboratories, Inc., New York, N. Y.
Filed Oct. 19, 1950, Serial No. 605,178. Published Feb. 10, 1953. Class 18.

574,858. Circular Compartmented Jar Made of Plastic Material for Hairpins, Bobby Pins, Needles, Safety Pins, and the Like. Norton Laboratories, Inc., Lockport, N. Y.
Filed Nov. 15, 1950, Serial No. 606,435. Published Feb. 17, 1953. Class 2.

574,859. Paints, and Particularly Pre-Mixed Outside Trim Paints, and Inside and Outside Finish Varnishes. Weather-Seal Inc., Barberton, Ohio.
Filed Nov. 27, 1950, Serial No. 606,993. Published Mar. 3, 1953. Class 16.

574,860. Perfumes, Hand Cream, Cleansing Cream, Foundation Cream, Shaving Cream, and Permanent Wave Solution. Frederick M. Kahn, doing business as Lovins Laboratories, Denver, Colo.
Filed Dec. 6, 1950, Serial No. 607,331. Published Feb. 17, 1953. Class 51.

574,861. Cigarette Cases. Harman Brothers Limited, Birmingham, England.
Filed Dec. 8, 1950, Serial No. 607,428. Published Mar. 10, 1953. Class 8.

574,862. Rough and Partly Finished Ductile Iron Castings in Various Forms for Use When Finished as Components of Manufactured Articles. The International Nickel Company, Inc., New York, N. Y.
Filed Dec. 8, 1950, Serial No. 607,431. Published Mar. 10, 1953. Class 14.

574,863. Dry Food Product Paper and Cardboard Boxes. General Sales Corporation, Milwaukee, Wis., assignor to Superdisplay, Incorporated, Milwaukee, Wis., a corporation of Wisconsin.
Filed Jan. 24, 1951, Serial No. 609,175. Published Feb. 24, 1953. Class 2.

574,864. Cigarettes. Carreras Limited, London, England.
Filed Feb. 17, 1951, Serial No. 610,200. Published Mar. 10, 1953. Class 17.

574,865. Ladies' and Misses' Dresses, Suits, and Coats. Louis Levine & Sons, Inc. of Ohio, Cincinnati, Ohio.
Filed Mar. 5, 1951, Serial No. 610,856. Published Mar. 3, 1953. Class 39.

574,866. Medicinal Preparation Indicated in and for the Prevention, Mitigation and Treatment of Acidosis, Etc. The Knox Company, Los Angeles, Calif.
Filed Mar. 6, 1951, Serial No. 610,912. Published Jan. 8, 1952. Class 18.

574,867. Used and New Trucks. Ruby Chevrolet, Inc., Chicago, Ill.
Filed Mar. 14, 1951, Serial No. 611,310. Published Mar. 3, 1953. Class 19.

574,868. Bill Holding and Dispensing Unit Comprising a Spring Pressed Bottom Plate, a Top Plate With Confining Lugs, Etc. Continental Cashand Company, Evanston, Ill.
Filed Apr. 13, 1951, Serial No. 612,502. Published Mar. 10, 1953. Class 13.

574,869. Portable Strong Boxes, Cash Boxes, Bond Boxes, Each Having a Locking Mechanism. The Hamilton Metal Products Company, Hamilton, Ohio.
Filed Apr. 13, 1951, Serial No. 612,613. Published Mar. 10, 1953. Class 25.

574,870. Cushions and Pillows. Purofied Down Products Corp., New York and Brooklyn, N. Y.
Filed Mar. 15, 1951, Serial No. 613,110. Published Mar. 10, 1953. Class 32.

574,871. Food and Vitamin Supplement for Animal Foods. Knappen Sales Company, doing business under the trade name or style "Knappen Company," Augusta, Mich.
Filed Apr. 25, 1951, Serial No. 613,136. Published Feb. 10, 1953. Class 18.

574,872. Canned Vegetables—Namely, Tomatoes, Canned Tomato Puree, Canned Tomato Juice, Red Kidney Beans, Red Beans, Plain Navy Beans, Pork and Beans, and Butter Beans Packed From Dried Limas. Kenneth N. Rider Company, Inc., Trafalgar, Ind.
Filed May 1, 1951, Serial No. 613,383. Published Oct. 28, 1952. Class 46.

574,873. Instrument Which Is a Calibrated Variable Frequency Marker, Etc. Kay Electric Company, Pine Brook, N. J.
Filed May 3, 1951, Serial No. 613,455. Published Mar. 10, 1953. Class 26.

574,874. Lubricating Oils and Petroleum Waxes. Commerce Oil Corporation, Warren, Pa.
Filed May 16, 1951, Serial No. 613,905. Published Feb. 17, 1953. Class 15.

574,875. Medicated Repeat Action Tablets for Use in the Treatment of Hormone Deficiencies, Allergies, and Infection Diseases. Schering Corporation, Bloomfield, N. J.
Filed May 21, 1951, Serial No. 614,167. Published Feb. 17, 1953. Class 18.

574,876. Butter and Other Dairy Products, Consisting of Cheese, Cottage Cheese, Dry Milk Solids, Non-Dry Milk Solids. Des Moines Co-Operative Dairy, Des Moines, Iowa.
Filed June 29, 1951, Serial No. 615,888. Published Feb. 24, 1953. Class 46.

574,877. Booklet Explaining the Selection of Brassières. Renée of Hollywood, Los Angeles, Calif.
Filed July 14, 1951, Serial No. 616,511. Published Feb. 17, 1953. Class 38.

574,878. External Veterinary Liquid Preparation (for Control of the Symptoms of Fungus Infections Commonly Called "Ringworm"). John A. Fitzsimmons, doing business as Fitzsimmons Products, Brooklyn, N. Y.
Filed July 18, 1951, Serial No. 616,628. Published Feb. 10, 1953. Class 18.

574,879. Centrifugal Pumps of the Following Types: General Hydraulic, Etc. A. S. Cameron Steam Pump Works, Phillipsburg, N. J., and New York, N. Y., assignor to Ingersoll-Rand Company, Phillipsburg, N. J., a corporation of New Jersey.
Filed July 26, 1951, Serial No. 616,939. Published Feb. 10, 1953. Class 23.

574,880. Preparations Containing Beta-Amylose Triiodide for Use in Liquid, Powder, Capsule and Pill Form for Internal Use and as an Ingredient in Medicaments for External Use. Thomas Jordan, Incorporated, New Orleans, La.
Filed July 27, 1951, Serial No. 617,035. Published Feb. 10, 1953. Class 18.

574,881. Sulfonamide Preparations in Tablet, Liquid, Capsule, Ampule, Powder, Gelatin, Salve and Gel Form. Nordmark-Werke Gesellschaft mit beschraenkter Haftung, Uetersen, Holstein, Germany.
Filed Aug. 1, 1951, Serial No. 617,200. Published Feb. 10, 1953. Class 18.

574,882. Paperboard. The Gardner Board and Carton Co., Middletown, Ohio.
Filed Aug. 3, 1951, Serial No. 617,287. Published Dec. 30, 1952. Class 37.

574,883. Prints—Namely, Labels, Posters, Decalcomanias, and Signs, All Produced by Silk Screen Processing. General Research and Supply Co., Grand Rapids, Mich.
Filed Aug. 3, 1951, Serial No. 617,289. CERTIFICATION MARK. Published Feb. 17, 1953. Class 38.

574,884. Railroad Car Moving Tool—Namely, a Pinch Bar With a Forward Pushing Toggle Which Enables the Moving of a Railroad Car. Advance Car Mover Company, Inc., Appleton, Wis.
Filed Aug. 10, 1951, Serial No. 617,523. Published Feb. 3, 1953. Class 23.

574,885. Cocktail Tables, Coffee Tables, and Multiple Purpose Tables in the Nature of Furniture. Meier & Pohlmann Furniture Company, St. Louis, Mo.
Filed Aug. 16, 1951, Serial No. 617,764. Published Mar. 10, 1953. Class 32.

574,886. High Precision Machine Tools—Namely, Drilling, Grinding, Jig Boring, and Milling Machines, and Parts Thereof. Societe Genevoise d'Instruments de Physique, Geneva, Switzerland.
Filed Aug. 17, 1951, Serial No. 617,819. Published Jan. 20, 1953. Class 23.

574,887. Fabric Traveling Bag. Kessler Luggage Manufacturing Corp., New York, N. Y.
Filed Aug. 21, 1951, Serial No. 617,919. Published Feb. 24, 1953. Class 3.

574,888. Wax Coating Composition for Application to the Ends of Fresh Logs or Freshly Sawn Lumber for Control of End Checking. R. T. Vanderbilt Company, Inc., New York, N. Y.
Filed Aug. 23, 1951, Serial No. 618,017. Published Mar. 3, 1953. Class 16.

574,889. Meters for Measuring the Flow of Liquids and Utilising Rotary Vanes. Francis Walter Guibert, doing business as Automatic Liquid Meter Co., Los Angeles, Calif.
Filed Sept. 10, 1951, Serial No. 618,578. Published Jan. 27, 1953. Class 26.

574,890. Department or Section of a Periodical Publication. Weekly Publications, Inc., New York, N. Y.
Filed Oct. 16, 1951, Serial No. 620,059. Published Feb. 17, 1953. Class 38.

574,891. Metal Racks for Industrial Storage Use. Lewis-Shepard Products, Inc., Watertown, Mass.
Filed Sept. 10, 1951, Serial No. 618,587. Published Mar. 10, 1953. Class 32.

574,892. Pipe Tobacco. Fred C. Hetzel, doing business under the fictitious name and style of Pinecrest Pipe and Tobacco Co., San Francisco, Calif.
Filed Sept. 11, 1951, Serial No. 618,646. Published Mar. 10, 1953. Class 17.

574,893. Flower Pots and Dish-Like Flower Pot Holders All Made of Rubber or Synthetic Rubber. Bath Tyre Service Depot Limited, Kensington, Bath, Somerset, England.
Filed Sept. 21, 1951, Serial No. 619,068. Published Feb. 17, 1953. Class 2.

574,894. Dietary Supplement Consisting Principally of Vitamins and Minerals. Borun Bros., Los Angeles, Calif.
Filed Sept. 24, 1951, Serial No. 619,154. Published Feb. 17, 1953. Class 18.

574,895. Detergents, Soaps, and Cleaning and Washing Compounds in Liquid, Powder, and Paste Form and Suitable for Cleaning Clothing and for Other Cleaning Uses. Stepan Chemical Company, Chicago, Ill.
Filed Sept. 26, 1951, Serial No. 619,268. Published Feb. 3, 1953. Class 52.

574,896. Plows—Namely, Snowplows, and Scrapers, Particularly Adapted for the Leveling of Ground and the Back Filling of Trenches. Continental Copper & Steel Industries, Inc., Holyoke, Mass, and New York, N. Y.
Filed Oct. 1, 1951, Serial No. 619,447. Published Feb. 3, 1953. Class 23.

574,897. Plows—Namely, Snowplows, and Scrapers, Particularly Adapted for the Leveling of Ground and the Back Filling of Trenches. Continental Copper & Steel Industries, Inc., Holyoke, Mass., and New York, N. Y.
Filed Oct. 1, 1951, Serial No. 619,450. Published Jan. 20, 1953. Class 23.

574,898. Ready Mixed Flat Wall Paint. Minnesota Paints, Inc., doing business as the Chi-Namel Paint & Varnish Co., Minneapolis, Minn.
Filed Oct. 5, 1951, Serial No. 619,642. Published Mar. 3, 1953. Class 16.

574,899. Recorders for Vehicles and Industrial Machines for Making Continuous Records of the Speed, Etc. Knopf Instrument Company, now by change of name Engler Instrument Company, Jersey City, N. J.
Filed Oct. 9, 1951, Serial No. 619,761. Published Feb. 3, 1953. Class 26.

574,900. Deodorant Tablet for Internal Administration. Carter Products, Inc., New York, N. Y.
Filed Oct. 11, 1951, Serial No. 619,872. Published Feb. 10, 1953. Class 18.

574,901. French Dressing, Sweet Pickles, Sandwich Spread, Mayonnaise, Hot Mustard, Salad Dressing, Spanish Sauce, Horse Radish, and Sweet-N-Sour Sauce (a Food Flavoring Sauce Applicable to Cooked Meats and Gravies). Better Products Co., Portland, Oreg.
Filed Oct. 22, 1951, Serial No. 620,299. Published Feb. 24, 1953. Class 46.

574,902. Spectacle-Glasses. Radtke & Wahl Gesellschaft mit beschränkter Haftung, Hannover, Germany.
Filed Oct. 27, 1951, Serial No. 620,553. Published Jan. 27, 1953. Class 26.

574,903. Trunks. Friedberg-Grünauer Co., San Francisco, Calif.
Filed Oct. 31, 1951, Serial No. 620,728. Published Mar. 3, 1953. Class 3.

574,904. Nutrient Buffered Vaginal Douche Tablet. Ortho Pharmaceutical Corporation, Raritan, N. J.
Filed Nov. 1, 1951, Serial No. 620,787. Published Feb. 10, 1953. Class 18.

574,905. Medicinal Preparation for Use as a Nasal Spray. Nepera Chemical Co. Inc., Nepera Park, N. Y.
Filed Nov. 6, 1951, Serial No. 620,928. Published Feb. 10, 1953. Class 18.

574,906. Vitamin Supplements for Poultry and Livestock. The Ray Ewing Company, Pasadena, Calif.
Filed Nov. 8, 1951, Serial No. 621,006. Published Feb. 10, 1953. Class 18.

574,907. Vitamin A Preparation. Xenoteck, Inc., Van Nuys, Calif.
Filed Nov. 13, 1951, Serial No. 621,192. Published Feb. 10, 1953. Class 18.

574,908. Composite Metal Plates Comprising a Wear and Acid Resistant Metal Such as Stainless Steel and a Base Plate of Less Resistant Metal Such as Carbon Steel. Chicago Bridge & Iron Company, Chicago, Ill.
Filed Nov. 15, 1951, Serial No. 621,257. Published Mar. 3, 1953. Class 14.

574,909. Antibacterial Baby Bath Preparation Indicated for Use in Protecting Infants Against, and Relieving Superficial Skin Irritations, Impetigo, Diaper and Heat Rash, and Ammonia-Odor. Sterling Drug Inc., New York, N. Y.
Filed Nov. 21, 1951, Serial No. 621,533. Published Feb. 10, 1953. Class 18.

574,910. Voice Communicating Systems Between Stations at Least One of Which Is Provided With a Sound Transmitting Microphone and a Sound Receiving Loud-Speaker. Société à Responsabilité Limitée: Le Teleampliphone, Paris, France.
Filed Nov. 23, 1951, Serial No. 621,587. Published Feb. 24, 1953. Class 21.

574,911. Turntables for Chairs, Tables, Consoles, and Similar Articles of Furniture. Richard F. Schoenback, doing business as Schoenback Industries, Dallas, Tex.
Filed Nov. 26, 1951, Serial No. 621,680. Published Mar. 10, 1953. Class 32.

574,912. Hand Operated Electric Drills. Charles F. Coake, New Angusta, Ind.
Filed Nov. 30, 1951, Serial No. 621,866. Published Feb. 24, 1953. Class 21.

574,913. Pharmaceutical and Therapeutic Formulations and Preparations Including: Antiseptic Preparations, Etc. Ortho Pharmaceutical Corporation, Raritan, N. J.
Filed Dec. 6, 1951, Serial No. 622,167. Published Feb. 10, 1953. Class 18.

574,914. Ready-Mixed Paints. International Paint Company, Inc., New York, N. Y.
Filed Dec. 13, 1951, Serial No. 622,440. Published Mar. 3, 1953. Class 16.

574,915. Combined Loud-Speaker and Amplifier Units for Use in Aircraft. Bendix Aviation Corporation, Detroit, Mich.
Filed Dec. 15, 1951, Serial No. 622,525. Published Feb. 24, 1953. Class 21.

574,916. Body Solder. Glaser Lead Company, Inc., Brooklyn, N. Y.
Filed Dec. 26, 1951, Serial No. 622,820. Published Mar. 3, 1953. Class 14.

574,917. Rotary Printing Presses, Stereotype-Casting Boxes, and Stereotype-Plate-Trimming Mechanism. The Goss Printing Press Company, Chicago, Ill.
Filed Dec. 29, 1951, Serial No. 622,994. Published Jan. 20, 1953. Class 23.

574,918. Maternity Garments—Namely, Dresses, Suits, Skirts, Jackets, Slips, Brassières, Panties, Night Gowns, Etc. Olda V. Klein, Washington, D. C.
Filed Dec. 29, 1951, Serial No. 622,999. Published Mar. 3, 1953. Class 39.

574,919. Ophthalmic Lenses for Eyeglasses. N. P. Benson Optical Company, Minneapolis, Minn.
Filed Jan. 2, 1952, Serial No. 623,039. Published Jan. 27, 1953. Class 26.

574,920. Baggage—Namely, Hand Bags, Suit Cases, Brief Cases, Trunks and Hat Boxes; and Animal Equipment—Namely, Dog Feeding Bowls, Dog Collars, Dog Leashes, and Dog Baskets. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,101. Published Feb. 17, 1953. Class 3.

574,921. WITHDRAWN.

574,922. Spectacle Container. Fred J. Maier, Chicago, Ill.
Filed Jan. 5, 1952, Serial No. 623,252. Published Jan. 27, 1953. Class 26.

574,923. Cardiac Drug. Barlow-Maney Laboratories, Incorporated, Cedar Rapids, Iowa.
Filed Jan. 7, 1952, Serial No. 623,268. Published Feb. 10, 1953. Class 18.

574,924. Metal Castings, Made by Permanent, Semi-Permanent, and Expendable Mold Processes and by Die Casting Processes. General Motors Corporation, Detroit, Mich.
Filed Jan. 9, 1952, Serial No. 623,348. Published Mar. 3, 1953. Class 14.

574,925. Hemorrhoidal Suppositories. Ciag Aktiengesellschaft, Schaffhausen, Switzerland.
Filed Jan. 23, 1952, Serial No. 623,948. Published Feb. 10, 1953. Class 18.

574,926. Electric Storage Batteries and Component Parts Thereof. Clarite Battery, Inc., Salt Lake City, Utah.
Filed Dec. 15, 1951, Serial No. 624,174. Published Feb. 24, 1953. Class 21.

574,927. Grooved Phonograph Records. Henry H. Koven, Chicago, Ill.
Filed Jan. 29, 1952, Serial No. 624,237. Published Mar. 10, 1953. Class 36.

574,928. Supplemental Feed for Livestock. Stoddard Associated Milling Company, Napa, Calif.
Filed Feb. 1, 1952, Serial No. 624,427. Published Mar. 3, 1953. Class 46.

574,929. Penetrating Oil for Freeing All Types of Frozen Mechanical Unions, Such as Nuts, Bolts, Pipe Joints, and the Like, and for Freeing Seized Parts of Movable Mechanisms. R. M. Hollingshead Corporation, Camden, N. J.
Filed Feb. 5, 1952, Serial No. 624,544. Published Feb. 17, 1953. Class 15.

574,930. Fitted Dressing Cases. Knight Leather Products Inc., Boston, Mass.
Filed Feb. 13, 1952, Serial No. 624,888. Published Mar. 3, 1953. Class 3.

574,931. Purses for Girls and Misses. Leader Manufacturing Co., St. Louis, Mo.
Filed Feb. 16, 1952, Serial No. 625,072. Published Feb. 24, 1953. Class 3.

574,932. Moist Type Food for Dogs and Cats. Wilson & Co., Inc., Chicago, Ill.
Filed Feb. 16, 1952, Serial No. 625,087. Published Mar. 3, 1953. Class 46.

574,933. Waterproof Hard, Glossy Floor Finish Coating. West Disinfecting Company, Long Island City, N. Y.
Filed Feb. 21, 1952, Serial No. 625,379. Published Mar. 3, 1953. Class 16.

574,934. Electric Laundry Washing Machines; Electric Ironers; Electric Portable Clothes Washers; Ironing Boards; Clothes Drying Racks; and Curtain Stretchers. Aldens, Inc., Chicago, Ill.
Filed Feb. 23, 1952, Serial No. 625,387. Published Mar. 10, 1953. Class 24.

574,935. Paper Merchandise Bags. Orchard Paper Co., St. Louis, Mo.
Filed Feb. 25, 1952, Serial No. 625,487. Published Mar. 3, 1953. Class 2.

574,936. Rust Preventive, Wetting Agent, Surface Tension Reducer, and Chemical Solvent Which Emulsifies Grease or Oil on Animal Hides, Metal Surfaces, or Other Materials. Haas Miller Corporation, Philadelphia, Pa.
Filed Feb. 27, 1952, Serial No. 625,597. Published Mar. 10, 1953. Class 6.

574,937. Flexible Metal Couplings for Conduit. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa.
Filed Feb. 27, 1952, Serial No. 625,624. Published Mar. 10, 1953. Class 13.

574,938. Apparatus for Measuring Distances by Reflected Sound Waves or by Similar Acoustic Methods—Namely, for Apparatus for Determining Depths of Water and Soundings. Raytheon Manufacturing Company, Newton, Mass.
Filed Feb. 28, 1952, Serial No. 625,692. Published Feb. 3, 1953. Class 26.

574,939. Venetian Blinds. Alum-No Tape Venetian Blind Corporation, Opa Locka, Fla.
Filed Feb. 9, 1952, Serial No. 625,780. Published Mar. 10, 1953. Class 32.

574,940. Frozen Turkeys. Armour and Company, doing business under the trade style Armour Creameries, Chicago, Ill.
Filed Mar. 5, 1952, Serial No. 625,955. Published Feb. 24, 1953. Class 46.

574,941. Insecticide and Mothproofing Agents. Sage Laboratories, Inc., New York, N. Y.
Filed Mar. 6, 1952, Serial No. 626,048. Published Mar. 3, 1953. Class 6.

574,942. Chicken Chop Suey, Chicken Chow Mein, Noodles, Soy Sauce, Bean Sprouts, Chinese Food Cannery of America, Inc., East Hartford, Conn.
Filed Mar. 12, 1952, Serial No. 626,310. Published Mar. 3, 1953. Class 46.

574,943. Chicken Chop Suey, Chicken Chow Mein, Noodles, Soy Sauce, Bean Sprouts, Chinese Food Cannery of America, Inc., East Hartford, Conn.
Filed Mar. 12, 1952, Serial No. 626,311. Published Mar. 3, 1953. Class 46.

574,944. Liquid Bactericide for Sanitizing Dairy and Food Handling Equipment. Klenzade Products, Incorporated, Beloit, Wis.
Filed Mar. 13, 1952, Serial No. 626,385. Published Mar. 3, 1953. Class 6.

574,945. Clothesline Tape-Reel and Tape for Covering Clothes Line. Reelist, Inc., Jersey City, N. J.
Filed Mar. 14, 1952, Serial No. 626,471. Published Mar. 10, 1953. Class 24.

574,946. Bred Sow and Pig Concentrate Used as a Feed Supplement. Nixon & Company (Nebraska), Omaha, Nebr.
Filed Mar. 17, 1952, Serial No. 626,587. Published Feb. 10, 1953. Class 18.

574,947. Hook and Eye Fastenings for Clothing. Hook-Flex Company, Chicago, Ill., assignor to Hook-Flex Corporation, Chicago, Ill., a corporation of Illinois.
Filed Mar. 19, 1952, Serial No. 626,675. Published Dec. 30, 1952. Class 40.

574,948. Wallets. Philip Florin, Inc., New York, N. Y.
Filed Mar. 28, 1952, Serial No. 627,179. Published Mar. 3, 1953. Class 3

574,949. Mechanical Livestock Oiler and Insecticide Applicator Mounted in an Upright Position and Automatically Operated by Stock Rubbing Against Operative Parts of Same. Robert Caldwell, Lakin, Kans.
Filed Mar. 31, 1952, Serial No. 627,319. Published Feb. 3, 1953. Class 23.

574,950. Cap Screws, Set Screws, and Nuts. George J. Miller, doing business as National Cap & Set Screw Co., Chicago, Ill.
Filed Apr. 1, 1952, Serial No. 627,396. Published Mar. 10, 1953. Class 13.

574,951. Pressure Appliance Fuel. Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif.
Filed Apr. 4, 1952, Serial No. 627,606. Published Feb. 17, 1953. Class 15.

574,952. Steel Sheets. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,715. Published Mar. 10, 1953. Class 14.

574,953. Wallets. Philip Florin, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,937. Published Mar. 3, 1953. Class 3.

574,954. Clothes Hampers Made of Steel Ribbed Fibre. The Associated Merchandising Corporation, New York, N. Y.
Filed Apr. 14, 1952, Serial No. 628,029. Published Feb. 17, 1953. Class 2.

574,955. Materials, Consisting of Penetrating Liquids—Namely, Aqueous Electrolytes Containing a Wetting Agent, Etc. Magnaflux Corporation, Chicago, Ill.
Filed Feb. 14, 1952, Serial No. 628,180. Published Mar. 3, 1953. Class 6.

574,956. Liquid and Solid Lubricants—Namely, Oils and Greases for Automotive Equipment. Allube Corporation, Glendale, Calif.
Filed Apr. 18, 1952, Serial No. 628,248. Published Feb. 17, 1953. Class 15.

574,957. Farm Machinery—Namely, Fertilizer Spreading Machines. The Warner Steel Products Company, Inc., Ottawa, Kans.
Filed Apr. 21, 1952, Serial No. 628,448. Published Feb. 3, 1953. Class 23.

574,958. Motor Oil and Machine Oil. Penn-Champ Oil Corporation, Butler, Pa.
Filed Apr. 22, 1952, Serial No. 628,505. Published Feb. 17, 1953. Class 15.

574,959. Cobra Venom Solution for Medicinal Use. Hynson, Westcott & Dunning, Incorporated, Baltimore, Md.
Filed Apr. 24, 1952, Serial No. 628,627. Published Feb. 10, 1953. Class 18.

574,960. Magazine Primarily Intended for School Use and Published Bi-Monthly During the School Year, Beginning on September 15 and Ending June 1 of Each Year. The Wesleyan University Press Incorporated, doing business as American Education Press, Columbus, Ohio.
Filed Apr. 25, 1952, Serial No. 628,727. Published Mar. 3, 1953. Class 38.

574,961. Communication and Signaling Devices, Etc. H. O. Boehme, Inc., New York, N. Y.
Filed Apr. 29, 1952, Serial No. 628,841. Published Feb. 24, 1953. Class 21.

574,962. Cloth Impregnated With a Germicidal, Bactericidal Agent for a General Use in Sanitizing. Sterwin Chemicals Inc., New York, N. Y.
Filed Mar. 24, 1952, Serial No. 626,964. Published Mar. 10, 1953. Class 6.

574,963. Lawn Mowers. Qualcast Limited, Derby, England.
Filed Apr. 29, 1952, Serial No. 628,874. Published Feb. 3, 1953. Class 23.

574,964. Medical Preparation—Namely, Tablets for the Relief of Insomnia. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed May 1, 1952, Serial No. 629,037. Published Feb. 10, 1953. Class 18.

574,965. Quaternary Ammonium Salts for Use in the Preparation of Disinfectants, Germicides, and Fungicides. Nopco Chemical Company, Harrison, N. J.
Filed May 3, 1952, Serial No. 629,179. Published Mar. 10, 1953. Class 18.

574,966. Candles, Including Novelty Candles as Well as Tapers. Victrylite Candle Company, Oshkosh, Wis.
Filed May 7, 1952, Serial No. 629,335. Published Feb. 17, 1953. Class 15.

574,967. Drawing Oil Which Is Applied to Metals Being Formed or Shaped, Etc. Metal Lubricants Co., Chicago Ill.
Filed May 13, 1952, Serial No. 629,615. Published Feb. 17, 1953. Class 15.

574,968. Partly Finished Non-Precious Metal, Iron Sheets and Iron Strips, Particularly With Surface Protection. Stahl- und Walzwerke Rasselstein/Andernach Aktiengesellschaft, Neuwied (Rhine), Germany.
Filed May 13, 1952, Serial No. 629,632. Published Mar. 10, 1953. Class 14.

574,969. Radio and Television Receiving Sets, Electric Irons, Electric Toasters, Electric Vacuum Cleaners, Electric Lamps, Electric Heaters, and Boilers. Arkwright, Incorporated, New York, N. Y.
Filed May 15, 1952, Serial No. 629,713. Published Feb. 24, 1953. Class 21.

574,970. Solder. The Electrona Corporation, Irvington, N. J.
Filed May 22, 1952, Serial No. 630,062. Published Mar. 10, 1953. Class 14.

574,971. Foot Bath Tray Made of Rubber. West Disinfecting Company, Long Island City, N. Y.
Filed May 24, 1952, Serial No. 630,249. Published Mar. 3, 1953. Class 2.

574,972. Slide Fasteners. Universal Button Fastening and Button Company, Detroit, Mich.
Filed May 26, 1952, Serial No. 630,291. Published Mar. 10, 1953. Class 13.

574,973. Slide Fasteners. Universal Button Fastening and Button Company, Detroit, Mich.
Filed May 26, 1952, Serial No. 630,292. Published Mar. 10, 1953. Class 13.

574,974. Cutlery—Namely, Knives, Forks, Scissors and Shears, Razor Blades, Etc. Arkwright, Incorporated, New York, N. Y.
Filed May 27, 1952, Serial No. 630,303. Published Feb. 3, 1953. Class 23.

574,975. Metal Clothes Cabinets or Lockers. Steel Service, Inc., Steubenville, Ohio.
Filed May 27, 1952, Serial No. 630,357. Published Mar. 10, 1953. Class 32.

574,976. Metal Pipes, Tubes, Casing and Couplings Therefor. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed June 2, 1952, Serial No. 630,635. Published Mar. 3, 1953. Class 13.

574,977. Series of Literary Publications. Educational Comics, Inc., New York, N. Y.
Filed June 3, 1952, Serial No. 630,670. Published Mar. 3, 1953. Class 38.

574,978. Filing Cases. Convoy, Incorporated, Canton, Ohio.
Filed June 13, 1952, Serial No. 631,147. Published Mar. 10, 1953. Class 32.

574,979. Abstract Ownership Maps. O. F. Warren, doing business as Great Northern Map Company, Tulsa, Okla.
Filed June 13, 1952, Serial No. 631,184. Published Feb. 24, 1953. Class 38.

574,980. Sewing and Knitting Gauge Consisting of an Elongated Rule Having Inches and Fractions Thereof, Etc. The Boye Needle Company, Chicago, Ill.
Filed June 21, 1952, Serial No. 631,537. Published Mar. 10, 1953. Class 26.

574,981. Graphite and Finely Divided Metallic Lubricating Compositions Applicable in Liquid Form to Metallic Surfaces and Bondable Thereto by Drying. Electrofilm Corporation, North Hollywood, Calif.
Filed June 23, 1952, Serial No. 631,610. Published Feb. 17, 1953. Class 15.

574,982. Mattresses. Storkline Furniture Corporation, Chicago, Ill.
Filed June 23, 1952, Serial No. 631,638. Published Mar. 10, 1953. Class 32.

574,983. Ladies' Handbags. Sheldon Handbag Corp., New York, N. Y.
Filed June 24, 1952, Serial No. 631,691. Published Mar. 3, 1953. Class 3.

574,984. Nitro-Glycerine Explosive Compounds, Blasting Explosives, Military Explosives, Seismological Explosives, Propulsive Explosives, Fuses and Detonators. Imperial Chemical Industries Limited, London, England.
Filed June 28, 1952, Serial No. 631,928. Published Mar. 10, 1953. Class 9.

574,985. Cereal Food Products in the Form of Curls Made From Processed Flour and Other Ingredients. Elmer Candy Company, New Orleans, La.
Filed July 2, 1952, Serial No. 632,080. Published Feb. 24, 1953. Class 46.

574,986. Woven Fabric Gloves. Advance Glove Manufacturing Company, Detroit, Mich.
Filed July 3, 1952, Serial No. 632,107. Published Mar. 3, 1953. Class 39.

574,987. Diffusible Ointment Base for Medicinals. Allied Laboratories, Inc., Kansas City, Mo.
Filed July 5, 1952, Serial No. 632,141. Published Feb. 10, 1953. Class 18.

574,988. Publication Published From Time to Time. Minor White, San Francisco, Calif.
Filed July 5, 1952, Serial No. 632,189. Published Mar. 3, 1953. Class 38.

574,989. Palm and Finger Stall Protective Covers for Gloves. Advance Glove Manufacturing Company, Detroit, Mich.
Filed July 12, 1952, Serial No. 632,460. Published Mar. 3, 1953. Class 39.

574,990. Medicinal Preparation Sold in Syrup and Lozenge Form Indicated for the Relief of Coughs Due to Colds. Maurice Broden, doing business as Broden's Drugs, Buchanan, N. Y.
Filed July 18, 1952, Serial No. 632,713. Published Feb. 10, 1953. Class 18.

574,991. Hydrocarbon Oil for Compounding With Rubber. Sun Oil Company, Philadelphia, Pa.
Filed July 19, 1952, Serial No. 632,803. Published Mar. 3, 1953. Class 6.

574,992. Medicinal Streptokinase (Fibrinolysin of Streptococcal Origin) for the Lysis of Blood Clots or Fibrin. Organon Inc., Orange, N. J.
Filed July 21, 1952, Serial No. 632,847. Published Mar. 3, 1953. Class 18.

574,993. Tablets for Internal Use To Relieve Coughs, Minor Throat Irritations, and Purify the Breath. Chilton Laboratories, Inc., Montclair, N. J.
Filed July 22, 1952, Serial No. 632,874. Published Feb. 10, 1953. Class 18.

574,994. Brassières, Girdles, Corsets, and Other Foundation Garments for Women. Enchantress Foundations, Inc., New York, N. Y.
Filed July 22, 1952, Serial No. 632,878. Published Mar. 3, 1953. Class 39.

574,995. Brassières, Girdles, Corsets, and Other Foundation Garments for Women. Enchantress Foundations, Inc., New York, N. Y.
Filed July 22, 1952, Serial No. 632,879. Published Mar. 3, 1953. Class 39.

574,996. Medicinal Preparations—Namely, Cough Syrup; Tablet Preparation for the Treatment of Thyroid Conditions; Etc. Desbergers Limited, Montreal, Quebec, Canada.
Filed July 24, 1952, Serial No. 632,979. Published Mar. 3, 1953. Class 18.

574,997. Pharmaceutical Preparation To Be Used as a Dietary Supplement. Organon Inc., Orange, N. J.
Filed July 28, 1952, Serial No. 633,166. Published Feb. 10, 1953. Class 18.

574,998. Indicating and/or Recording Instruments for Measuring the Value of a Condition, Etc. Bendix Aviation Corporation, Detroit, Mich.
Filed July 8, 1952, Serial No. 633,244. Published Mar. 10, 1953. Class 26.

574,999. Women's Handbags. Societe Anonyme Jeanne Lanvin, Paris, France.
Filed July 5, 1952, Serial No. 633,284. Published Mar. 3, 1953. Class 3.

575,000. Pharmaceutical in Tablet Form To Prevent the Retention of Fluid for the Relief and Control of Premenstrual Tension and Dysmenorrhea. Nutrition Research Laboratories, Inc., Chicago, Ill.
Filed July 31, 1952, Serial No. 633,320. Published Feb. 10, 1953. Class 18.

575,001. Sulfonamide. Schering Corporation, Bloomfield, N. J.
Filed July 31, 1952, Serial No. 633,332. Published Feb. 10, 1953. Class 18.

575,002. Product, in Lotion and Ointment Form, for Treatment of Pimples and Oily Condition of Skin. Schieffelin & Co., New York, N. Y.
Filed Aug. 2, 1952, Serial No. 633,433. Published Feb. 17, 1953. Class 18.

575,003. Product, in Lotion Form, for Treatment of Scalp and Skin. Schieffelin & Co., New York, N. Y.
Filed Aug. 2, 1952, Serial No. 633,434. Published Feb. 17, 1953. Class 18.

575,004. Political Publication Printed From Time to Time. John D. Tracy, New York, N. Y.
Filed Aug. 5, 1952, Serial No. 633,518. Published Feb. 24, 1953. Class 38.

575,005. Insecticide. American Scientific Laboratories, Inc., Madison, Wis.
Filed Aug. 11, 1952, Serial No. 633,700. Published Mar. 3, 1953. Class 6.

575,006. Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, and/or Metal Foil. Fruit Products Corporation, New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,842. Published Feb. 17, 1953. Class 2.

575,007. Department, Section, or Feature in a Magazine. McCall Corporation, New York, N. Y.
Filed Aug. 14, 1952, Serial No. 633,941. Published Feb. 24, 1953. Class 38.

575,008. Washable Wall Paint. Keystone Paint and Varnish Corporation, Brooklyn, N. Y.
Filed Aug. 16, 1952, Serial No. 634,047. Published Mar. 3, 1953. Class 16.

575,009. House Organ Issued Periodically. Kropp Forge Company, Chicago, Ill.
Filed Aug. 18, 1952, Serial No. 634,092. Published Mar. 3, 1953. Class 38.

575,010. Viscose Rayon Carpet Yarn. Cabin Crafts, Inc., Dalton, Ga.
Filed Aug. 19, 1952, Serial No. 634,139. Published Mar. 3, 1953. Class 43.

575,011. House Organ Published Monthly. Decatur Pump Company, Decatur, Ill.
Filed Aug. 21, 1952, Serial No. 634,245. Published Mar. 3, 1953. Class 38.

575,012. Brassières, Girdles, Corsets, Combination Girdles and Brassières (Combined as One Garment), and Foundation Garments. The Formfit Company, Chicago, Ill.
Filed Aug. 21, 1952, Serial No. 634,250. Published Mar. 3, 1953. Class 39.

575,013. Hose and Belt Cord. Callaway Mills Company, La Grange, Ga.
Filed Aug. 22, 1952, Serial No. 634,297. Published Mar. 3, 1953. Class 7.

575,014. Ladies' Wearing Apparel—Namely, Underwear, Nightgowns, Slips, Petticoats, Pajamas, Bloomers, Vests, Panties, and Lounging and Hostess Robes. Dutchess Underwear Corporation, New York, N. Y.
Filed Aug. 29, 1952, Serial No. 634,635. Published Mar. 3, 1953. Class 39.

575,015. Ladies' Wearing Apparel—Namely, Underwear, Nightgowns, Slips, Petticoats, Pajamas, Bloomers, Vests, Panties, and Lounging and Hostess Robes. Dutchess Underwear Corporation, New York, N. Y.
Filed Aug. 29, 1952, Serial No. 634,636. Published Mar. 3, 1953. Class 39.

575,016. Columns and Articles in Newspapers and Magazines, Pamphlets, Booklets, Reports, Printed or Produced by Other Reproducing Processes, Also Maps, All Pertaining to the Petroleum Industry. Petroleum Information, Denver, Colo., Casper, Wyo., and Billings, Mont.
Filed Aug. 30, 1952, Serial No. 634,708. Published Mar. 3, 1953. Class 38.

575,017. Technical Periodical for General Distribution to the Medical and Allied Professions. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Aug. 30, 1952, Serial No. 634,710. Published Mar. 3, 1953. Class 38.

575,018. Preparation for the Treatment of Streptomycin Resistant Tuberculosis. Parke, Davis & Company, Detroit, Mich.
Filed Sept. 2, 1952, Serial No. 634,749. Published Feb. 17, 1953. Class 18.

575,019. Preparation for the Treatment of Amoebic Dysentery. Parke, Davis & Company, Detroit, Mich.
Filed Sept. 2, 1952, Serial No. 634,751. Published Feb. 17, 1953. Class 18.

575,020. Medicinal Preparation To Be Used as a Local Anesthetic. The Upjohn Company, Kalamazoo, Mich.
Filed Sept. 3, 1952, Serial No. 634,814. Published Feb. 17, 1953. Class 18.

575,021. Medicinal Preparation for the Treatment of Collagen Diseases. The Upjohn Company, Kalamazoo, Mich.
Filed Sept. 3, 1952, Serial No. 634,815. Published Feb. 17, 1953. Class 18.

575,022. Collapsible Cartons Formed of Cardboard or Container Board. Sutherland Paper Company, Kalamazoo, Mich.
Filed Sept. 8, 1952, Serial No. 635,002. Published Mar. 3, 1953. Class 2.

575,023. Antiseptic and Antibacterial Solution for Treatment of Textiles. Benson-Nöen Laboratories, Inc., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,335. Published Mar. 3, 1953. Class 6.

575,024. Liquid Cough Medication. Schenley Laboratories, Inc., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,384. Published Mar. 10, 1953. Class 18.

575,025. Room Deodorant. Boatwick Laboratories, Inc., Bridgeport, Conn.
Filed Oct. 24, 1952, Serial No. 637,109. Published Mar. 3, 1953. Class 6.

575,026. Rubber Squeegees, Spotting Brushes, Coloring Brushes, and Camel's-Hair Brushes. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Oct. 25, 1952, Serial No. 637,174. Published Feb. 24, 1953. Class 29.

575,027. Liquid Preparation for Refreshing and Revitalizing Inked Ribbons Used on Typewriters, Etc. George A. Lipfert, New York, N. Y.
Filed Oct. 31, 1952, Serial No. 637,454. Published Mar. 10, 1953. Class 6.

575,028. Liquid Analgesic Compound for Relieving Functional Menstrual Pain. The Berjon Company, Memphis, Tenn.
Filed Nov. 10, 1952, Serial No. 637,857. Published Feb. 10, 1953. Class 18.

575,029. Antibiotics for Veterinary Use. Merck & Co., Inc., Rahway, N. J.
Filed Nov. 18, 1952, Serial No. 638,266. Published Feb. 10, 1953. Class 18.

575,030. Rolled Zinc. The New Jersey Zinc Company, New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,222. Published Mar. 10, 1953. Class 14.

575,031. Magazine. Ziff-Davis Publishing Company, Chicago, Ill., and New York, N. Y.
Filed Aug. 29, 1952, Serial No. 634,675. Published Mar. 3, 1953. Class 38.

Service Marks

575,032. Consulting and Laboratory Services Rendered for Others in the Origination, Development, and Improvement of Food Products and Processes, Methods, and Other Means for Making or Treating Said Food Products. Wm. J. Stange Co., Chicago, Ill.
Filed Sept. 10, 1949, Serial No. 584,792. Published Oct. 24, 1950. Class 106.

575,033. Consulting Engineering and Architectural Services; Developing and Designing New Equipment and Machinery; and Designing Factory Buildings. Anderson-Nichols & Company, Boston, Mass.
Filed Mar. 1, 1951, Serial No. 610,663. Published Mar. 3, 1953. Class 100.

575,034. Sponsoring of Visits of Groups of Foreign Children to the United States and the Sponsoring of Visits of Groups of American Children to Foreign Countries in Furtherance of International Goodwill Activities. Children's International Summer Villages, Inc., Cincinnati, Ohio.
Filed Oct. 25, 1951, Serial No. 620,459. Published Mar. 3, 1953. Class 100.

575,035. Constructing, Installing, and Dismantling Industrial Plants and Equipment, Etc. Engineers Limited Mechanical Construction Co., San Francisco, Calif.
Filed Dec. 3, 1951, Serial No. 622,016. Published Mar. 3, 1953. Class 103.

575,036. Cleaning, Painting, and Repairing All Types of Steel Structures. Steel & Tank Service Company, Charlotte, N. C.
Filed Apr. 8, 1952, Serial No. 627,780. Published Mar. 3, 1953. Class 103.

575,037. Radio Program Broadcasting. Booth Radio & Television Stations, Inc., Detroit, Mich.
Filed Apr. 9, 1952, Serial No. 627,799. Published Mar. 3, 1953. Class 104.

575,038. Entertainment Service in the Nature of Dancing Exhibitions. Patricia McQuillan, doing business under the name of Evelyn West, Los Angeles, Calif.
Filed July 8, 1952, Serial No. 632,257. Published Mar. 3, 1953. Class 107.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

575,039. (Class 26. Measuring and Scientific Appliances.) Radiovision Corporation, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 21, 1947; amended to application, Supplemental Register, May 6, 1950, Serial No. 529,087.

RADIOVISION

For Motion Picture Films.
Claims use since June 26, 1947.

575,040. (Class 46. Foods and Ingredients of Foods.) Arthur H. Greer, trading as Ohio Steak & Barbecue Company, Los Angeles, Calif., and Columbus, Ohio. Original filed, act of 1946, Principal Register, Oct. 13, 1947; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 537,687.

STEAKETTE

For Frozen Meats—Namely, Beefsteak With Ground Beef Suet.
Claims use since June 15, 1939.

575,041. (Class 46. Foods and Ingredients of Foods.) Motta, S. P. A., Milan, Italy. Original filed, act of 1946, Principal Register, Dec. 20, 1948; amended to application, Supplemental Register, Aug. 16, 1951, Serial No. 570,875.

Motta

Applicant claims ownership of Registrations Nos. 317,617 and 315,833.
For Cakes, Candy, Pastries, Chocolate Milk, Cocoa (Powder and Paste Form), Ice Cream, Preparations for Making Ice Cream, Preparations for Making Puddings, Hazelnut Butter, Carob Seeds for Human Consumption, Potato Flour, Corn Flour, Rice Flour, Shelled Nuts (Pistachio and Pignolia Nuts), Candied Fruits, Fresh Citrus and Deciduous Fruits, Tomato Paste, Peeled Tomatoes, Olive Oil, Almond Oil, and Almond Paste.
Claims use since 1919 and first used in commerce between Italy and the United States in 1919.

575,042. (Class 46. Foods and Ingredients of Foods.) The Borden Company, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 3, 1949; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 573,290.



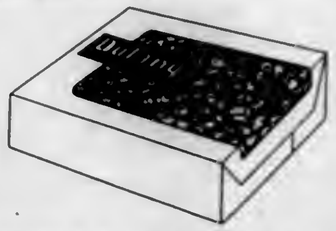
Applicant disclaims the word "Protein" apart from the mark as shown.
For Lactalbumin To Be Used by Industrial Food Manufacturers, Processors and Packers as an Ingredient for Various Foods for Human Consumption.
Claims use since Dec. 2, 1948.

575,043. (Class 46. Foods and Ingredients of Foods.) Krispy Kake Kone Kompany, Inc., Los Angeles, Calif., assignee of Krispy Kake Kone Kompany. Original filed, act of 1946, Principal Register, Mar. 12, 1949; amended to application, Supplemental Register, Aug. 27, 1951, Serial No. 575,355.

KRISPY KAKE KONES

For Ice Cream Cones.
Claims use since Jan. 1, 1921.

575,044. (Class 46. Foods and Ingredients of Foods.) John H. Dulany & Son, Inc., Fruitland, Md. Original filed, act of 1946, Principal Register, June 1, 1949; amended to application, Supplemental Register, Aug. 28, 1950, Serial No. 579,808.



The drawing is lined for blue. The trade-mark consisting of an oblong vignette containing an illustration of the product in its natural color and a partially overlying rectangle of a blue color containing the words "Dulany—Quick Frozen," the wrapper being placed around the cardboard carton so that both the rectangle and the vignette appear on the top of the package, the rectangle extending from the left edge of the package to near the center of the package and the lesser dimension of the vignette near its right edge being folded over the right-hand upper edge of the package so that it extends a short distance downwardly along the right-hand edge of the package to give a three-dimensional effect simulating the appearance of the product as it would be seen through a transparent window in the package, and the representation of the carton being used merely to define the position of the trade-mark and no claim is made to the package.
For Frozen Garden Peas.
Claims use since May 15, 1948.

575,045. (Class 31. Filters and Refrigerators.) W. J. Harbers & Co., Telford, Pa. Original filed, act of 1946, Principal Register, Mar. 17, 1950; amended to application, Supplemental Register, Jan. 16, 1953, Serial No. 594,124.

DUBL-BILT

For Drain Pans for Refrigeration Coils of the Type Used in Industrial and Commercial Refrigerating Units.
Claims use since Aug. 12, 1949.

575,046. (Class 46. Foods and Ingredients of Foods.) S. A. Schonbrunn & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 17, 1950; amended to application, Supplemental Register, Nov. 15, 1951, Serial No. 594,150.



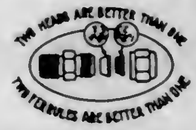
The design as shown on the drawing runs completely around the circular container. Applicant disclaims any exclusive rights to the word "London." The drawing is lined for the colors red and green.
For Coffee.
Claims use since 1924.

575,047. (Class 14. Metals and Metal Castings and Forgings.) Metallurg Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 4, 1951; amended to application, Supplemental Register, Oct. 20, 1952, Serial No. 613,518.

SHIELDALLOY

For Pure Metals, Ferrous and Non-Ferrous Metal Alloys Used in the Hard Metal Industry for the Production of Welding Rods and for Powder Metallurgy Purposes.
Claims use since Feb. 1, 1951.

575,048. (Class 13. Hardware and Plumbing and Steam Fitting Supplies.) Crawford Fitting Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, May 10, 1951; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 613,705.



For Tube Couplings.
Claims use since Sept. 5, 1947.

575,049. (Class 46. Foods and Ingredients of Foods.) Peanut Corporation of America, doing business under the name of Peanut Products Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, May 28, 1951; amended to application, Supplemental Register, Feb. 12, 1953, Serial No. 614,463.

Cashew-ettes

The lining on the drawing designates the colors dark blue and light blue.
For Cashew Nuts.
Claims use since Jan. 1, 1950.

575,050. (Class 44. Dental, Medical, and Surgical Appliances.) Willard's Manufacturing Company, Perry, Mo. Original filed, act of 1946, Principal Register, July 11, 1951; amended to application, Supplemental Register, Nov. 28, 1952, Serial No. 616,352.

"SHUR HOG CATCHER"

For Veterinarian Appliances—Namely, a Hog Catcher Which Is Used To Catch and Hold the Hog's Snout During Vaccination and Other Surgical Treatment.
Claims use since July 9, 1949.

575,051. (Class 46. Foods and Ingredients of Foods.) La Pryor Milling Co., La Pryor, Tex. Original filed, act of 1946, Principal Register, Dec. 4, 1951; amended to application, Supplemental Register, Mar. 19, 1953, Serial No. 622,077.

WINTER-GARDEN

For Feed for Livestock and Poultry.
Claims use since September 1946.

575,052. (Class 46. Foods and Ingredients of Foods.) Henry F. Getteifinger & Sons, Bradford, Ind. Original filed, act of 1946, Principal Register, Apr. 16, 1952; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 628,151.

SPEE-DEE POP!

For Popcorn in Its Raw State.
Claims use since Feb. 15, 1952.

575,053. (Class 46. Foods and Ingredients of Foods.) Louis Pulici, doing business as Pulici Packing Company, Los Angeles and Upland, Calif. Original filed, act of 1946, Principal Register, Apr. 25, 1952; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 628,712.

J.B. Wood

The consent of "J. B. Wood" to the use and registration of his name as a trade-mark is of record in the file of this application.
For Canned Vegetables, Canned Fruits.
Claims use since July 6, 1951.

575,054. (Class 46. Foods and Ingredients of Foods.) John F. Cope, doing business as Cope Brothers, Manheim, Pa. Filed July 8, 1952, Serial No. 632,243.

JOHN COPE'S

For Frozen Fresh Yellow Sweet Corn; Dried Sweet Corn; Evaporated Golden Sweet Corn; Frozen Fresh All Green Asparagus; Evaporated White Sweet Corn; and Frozen Fresh White Sweet Corn.
Claims use since 1950.

575,055. (Class 46. Foods and Ingredients of Foods.) United Growers, Inc., Salem, Oreg. Original filed, act of 1946, Principal Register, Sept. 26, 1952; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 635,859.

ALLFINE

For Canned Fruits, Canned Vegetables, Canned Berries, Frozen Fresh Fruits, Frozen Fresh Vegetables, and Frozen Fresh Berries.
Claims use since Feb. 15, 1951.

575,056. (Class 46. Foods and Ingredients of Foods.) The Colorado Milling & Elevator Co., doing business under the style name of The Wilson Flour Mills, Denver, Colo., and Wilson, Kans. Filed Oct. 24, 1952, Serial No. 637,114.

Wilson's BEST

The drawing is lined to indicate red color. Applicant claims ownership of Registration No. 559,744.
For Wheat Flour.
Claims use since Aug. 5, 1924.

575,057. (Class 46. Foods and Ingredients of Foods.) Life Savers Corporation, Port Chester, N. Y. Filed Feb. 6, 1953, Serial No. 641,850.

LIFE SAVERS
LIFE SAVERS
LIFE SAVERS

The drawing is lined to indicate the colors red, yellow, and green. Applicant claims ownership of Registrations Nos. 93,080, 115,895, and others.
For Candies.
Claims use since Jan. 2, 1952.

Service Mark

575,058. (Class 106. Material Treatment.) Byron, Inc., Washington, D. C. Original filed, act of 1946, Principal Register, Feb. 27, 1951; amended to application, Supplemental Register, Nov. 25, 1952, Serial No. 610,541.

Color-Correct

For Duplicating Prints of Originals of 16 Mm. Colored Motion Picture Film.
Claims use since Nov. 1, 1945.

TRADE-MARK REGISTRATIONS RENEWED

40,209. "EL COCHINITO" AND DESIGN. Registered Apr. 28, 1903. The Cudahy Packing Co., Chicago, Ill., and South Omaha, Nebr. Re-renewed Apr. 28, 1953, to The Cudahy Packing Company, Chicago, Ill., a corporation of Maine. Lard. Class 46.

88,555. STAR. Registered Oct. 1, 1912. C. H. Dexter & Sons. Re-renewed Oct. 1, 1952, to C. H. Dexter & Sons, Incorporated, Windsor Locks, Conn., a corporation of Connecticut. Writing, Printing, and Tissue Paper. Class 37.

88,556. REPRESENTATION OF FIVE-POINTED STAR. Registered Oct. 1, 1912. C. H. Dexter & Sons. Re-renewed Oct. 1, 1952, to C. H. Dexter & Sons, Incorporated, Windsor Locks, Conn., a corporation of Connecticut. Writing, Printing, and Tissue Paper. Class 37.

90,400. "BITUMINOUS VICTOR COAL" AND DESIGN. Registered Feb. 18, 1913. Peale, Peacock & Kerr, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Feb. 18, 1953. Bituminous Coal. Class 1.

90,560. KISMET KLOTH. Registered Mar. 4, 1913. M. C. Migel & Co., New York, N. Y. Re-renewed Mar. 4, 1953, to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware. Silk Piece Goods. Class 42.

90,851. VITAPHONE. Registered Mar. 25, 1913. The Vitaphone Co., Plainfield, N. J. Re-renewed Mar. 25, 1953, to The Vitaphone Corporation, New York, N. Y., a corporation of New York. Graphophones, Gramophones, and Parts Thereof and Records for Use in Connection Therewith. Class 36.

90,856. "SATINA" AND DESIGN. Registered Mar. 25, 1913. La France Manufacturing Company, Philadelphia, Pa. Re-renewed Mar. 25, 1953, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Laundry Waxes. Class 6.

90,907. CREAMETTES. Registered Apr. 1, 1913. Mother's Macaroni Company. Re-renewed Apr. 1, 1953, to The Creamette Company, Minneapolis, Minn., a corporation of Minnesota. Macaroni. Class 46.

91,507. "CHANTECLER" AND DESIGN. Registered May 6, 1913. New Prague Flouring Mill Company, New Prague, Minn. Re-renewed May 6, 1953, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Wheat-Flour. Class 46.

92,024. TOP MILL. Registered June 10, 1913. Joseph & Henry Wilson Limited, Sheffield, England, a limited liability company incorporated under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed June 10, 1953. Snuff. Class 17.

92,390. "SUNSET" AND DESIGN. Registered July 8, 1913. Beaumont Rice Mills, Beaumont and El Campo, Tex. Re-renewed July 8, 1953, to Beaumont Rice Mills, Beaumont, Tex., a corporation of Texas. Rice. Class 46.

92,509. "LEADER" AND DESIGN. Registered July 15, 1913. Beaumont Rice Mills, Beaumont and El Campo, Tex. Re-renewed July 15, 1953, to Beaumont Rice Mills, Beaumont, Tex., a corporation of Texas. Rice. Class 46.

92,532. REPRESENTATION OF ANCHOR. Registered July 15, 1913. California Fruit Exchange, Sacramento, Calif., a corporation of California. Re-renewed July 15, 1953. Fresh Cherries, Apricots, Peaches, Pears, Etc. Class 46.

92,572. "H I" AND DESIGN. Registered July 15, 1913. The Ohio Grease Lubricant Co. Re-renewed July 15, 1953, to The Ohio Grease Co., Loudonville, Ohio, a corporation of Ohio. Cylinder-Grease, Cup-Grease, Fiber-Grease, Etc. Class 15.

92,794. YANKEE. Registered July 29, 1913. Henry Heide. Re-renewed July 29, 1953, to Henry Heide, Incorporated, New York, N. Y., a corporation of New York. Candy. Class 46.

92,829. MONARCH. Registered July 29, 1913. Rice-Stix Dry Goods Company. Re-renewed July 29, 1953, to Rice-Stix, Inc., St. Louis, Mo., a corporation of Missouri. Men's and Boys' Athletic Underwear, Viz., Sleeveless and Quarter Length Sleeve Undershirts, Etc. Class 39.

92,892. LA CORONA. Registered Aug. 5, 1913. Havana Cigar & Tobacco Factories, Lt'd., New York, N. Y., and Habana, Cuba. Re-renewed Aug. 5, 1953, to The Havana Cigar and Tobacco Factories, Limited, Trenton, N. J., a corporation organized under the laws of England. Cigars. Class 17.

92,944. THE BUSINESS BUILDER. Registered Aug. 12, 1913. Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota. Re-renewed Aug. 12, 1953. Monthly Periodical. Class 38.

92,949. REPRESENTATION OF WORLD. Registered Aug. 12, 1913. Champion Spark Plug Company. Re-renewed Aug. 12, 1953, to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware. Spark-Plugs. Class 21.

92,950. CHAMPION. Registered Aug. 12, 1913. Champion Spark Plug Company. Re-renewed Aug. 12, 1953, to Champion Spark Plug Company, Toledo, Ohio., a corporation of Delaware. Spark-Plugs. Class 21.

287,898. FASHION QUEEN. Registered Oct. 13, 1931. Charles Goldman, doing business as Atlas Mills. Renewed Oct. 13, 1951, to Atlas Fabrics Corporation, New York, N. Y., a corporation of New York. Textile Fabrics—Namely, Silk Piece Goods. Class 42.

298,720. "ALBATROS" AND DRAWING. Registered Nov. 1, 1932. Naamlooze Vennootschap Vereenigde Chemische Fabrieken, Utrecht, Netherlands. Renewed Nov. 1, 1952, to Albatros Superfosfaatfabrieken N. V., Utrecht, Holland, a limited liability company, incorporated under the laws of the Kingdom of the Netherlands. Manure. Class 10.

298,929. REPRESENTATION OF HANDLE WITH NARROW GREEN COLORED BAND. Registered Nov. 15, 1932. The A. & J. Manufacturing Co., Binghamton, N. Y., assignor to A. & J. Kitchen Tool Co. Renewed Nov. 15, 1952, to Ekco Products Company, Chicago, Ill., a corporation of Illinois. Kitchen Tools and Utensils—Namely, Basting Spoons, Batter Spoons, Kitchen Spoons (Plain), Etc. Class 23.

298,975. SUPERCHROME. Registered Nov. 15, 1932. Gevaert Photo-Producten, Naamlooze Vennootschap (Société Anonyme Photo-Produits Gevaert), Oude-God, near Antwerp, Belgium. Renewed Nov. 15, 1952, to Gevaert Photo-Producten N. V., Mortsel, Belgium, a company organized under the laws of the Kingdom of Belgium. Sensitized Photographic Papers, Plates, Films, Roll Films, Portrait Films, Etc. Class 26.

299,825. "F" AND DESIGN. Registered Dec. 27, 1932. Firestone Battery Company. Renewed Dec. 27, 1952, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Battery Clamps, Terminals, and Connectors; Electrical Cables; Etc. Class 21.

299,977. FIRESTONE. Registered Jan. 3, 1933. Firestone Battery Company. Renewed Jan. 3, 1953, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Battery Clamps, Terminals and Connectors, Electrical Cables, and Storage Battery Parts, Etc. Class 21.

300,877. TELE-TIME. Registered Feb. 14, 1933. Samuel Whittemore Boggs, Chevy Chase, Md. Renewed Feb. 14, 1953, to Freel Research Laboratories, Boulder, Colo., a partnership. Printed Horological Charts. Class 38.

301,286. STATESMAN. Registered Feb. 21, 1933. Bloch Bros. Renewed Feb. 21, 1953, to Bloch Bros. (Distillers) Limited, Glasgow, Scotland, a company registered under the laws of the United Kingdom of Great Britain and Northern Ireland. Whiskey. Class 49.

301,288. LOCHMILLER. Registered Feb. 21, 1933. Bloch Bros. Renewed Feb. 21, 1953, to Donald Mackenzie Distillers Limited, Glasgow, Scotland, a company registered under the laws of the United Kingdom of Great Britain and Northern Ireland. Whiskey. Class 49.

301,290. OLD COURT. Registered Feb. 21, 1933. Bloch Bros. Renewed Feb. 21, 1953, to A. Gillies & Co. (Distillers) Limited, Glasgow, Scotland, a company registered under the laws of the United Kingdom of Great Britain and Northern Ireland. Whiskey. Class 49.

301,298. "OLD WORTHY" ETC. AND DESIGN. Registered Feb. 28, 1933. Bloch Bros. Renewed Feb. 28, 1953, to A. Gillies & Co. (Distillers) Limited, Glasgow, Scotland, a company incorporated and registered under the laws of the United Kingdom of Great Britain and Northern Ireland. Whiskey. Class 49.

301,299. "SOUTHERN SELECT" ETC. AND DESIGN. Registered Feb. 28, 1933. Christie & Hoover, Houston, Tex. Renewed Feb. 28, 1953, to Galveston-Houston Breweries, Inc., Galveston, Tex., a corporation of Texas. Malt Beverages With Not More Than the Legal Alcoholic Content and Extracts Therefor. Class 48.

301,328. TUNG SOL. Registered Feb. 28, 1933. Tung-Sol Lamp Works, Inc. Renewed Feb. 28, 1953, to Tung-Sol Electric, Inc., Newark, N. J., a corporation of Delaware. Incandescent Electric Bulbs. Class 21.

301,385. APPRAISAL LEDGER. Registered Feb. 28, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Renewed Feb. 28, 1953, to Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Writing and Printing Paper. Class 37.

301,397. "F" AND DESIGN. Registered Feb. 28, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 28, 1953. Tire Casing Dusting Powders—Namely, Mica Talc and Soapstone. Class 1.

301,398. FIRESTONE. Registered Feb. 28, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 28, 1953. Tire Casing Dusting Powders—Namely, Mica, Talc and Soapstone. Class 1.

301,440. "SARAH HEDDEN'S" AND DESIGN. Registered Feb. 28, 1933. Mrs. William F. Beler, Kenmore, N. Y. Renewed Feb. 28, 1953, to Mrs. William F. Beler, Snyder, N. Y. Candy. Class 46.

301,514. MARGRACE. Registered Mar. 7, 1933. Neisler Mills, Inc., Kings Mountain, N. C., a corporation of North Carolina. Renewed Mar. 7, 1953. Decorative Woven Fabrics in the Piece, i. e. Damask Draperies and Bed Spreads. Class 42.

301,536. "DARMOL" ETC. AND DESIGN. Registered Mar. 7, 1933. Brady & Schmidgall, Vienna, Austria. Renewed Mar. 7, 1953, to Dr. A. & L. Schmidgall, Bludenz, Austria, a firm organized under the laws of Austria. Purgament and Preparation for Treating Obesity. Class 18.

301,556. "CANCO" AND DESIGN. Registered Mar. 7, 1933. American Can Company, New York, N. Y., a corporation of New Jersey. Renewed Mar. 7, 1953. Advertising Cases and Cabinets Made of Sheet Metal or Fibre, Etc. Class 32.

301,608. "F" AND DESIGN. Registered Mar. 7, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 7, 1953. Anti-Freeze Solution for Automobile Radiators and Rubber Solvent. Class 6.

301,679. CUP CUDDLER. Registered Mar. 7, 1933. Dewey Longworth, Oakland, Calif. Renewed Mar. 7, 1953. Golf Clubs. Class 22.

301,719. "CHOCKOW" AND DESIGN. Registered Mar. 14, 1933. Southern Dairies, Inc., Washington, D. C., a corporation of Delaware. Renewed Mar. 14, 1953. Frozen Confections Comprising a Body Composed of a Frozen Milk Product and a Coating of Edible Substance. Class 46.

301,774. "SOUTHERN SELECT" ETC. AND DESIGN. Registered Mar. 14, 1933. Christie & Hoover, Houston, Tex. Renewed Mar. 14, 1953, to Galveston-Houston Breweries, Inc., Galveston, Tex., a corporation of Texas. Malt Extracts and Malt Syrups for Food Purposes. Class 48.

301,888. ZEROLITE. Registered Mar. 21, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed Mar. 21, 1953. Thermal Insulation Materials. Class 12.

301,920. PLANET. Registered Mar. 21, 1933. The Biltmore Paper Co., Inc. Renewed Mar. 21, 1953, to Biltmore Tissue Corporation, New York, N. Y., a corporation of New York. Toilet Paper. Class 37.

301,970. FIRESTONE. Registered Mar. 21, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Mar. 21, 1953. Rubber Solvent. Class 6.

302,030. HIGH CARD. Registered Mar. 21, 1933. Bloch Bros. Renewed Mar. 21, 1953, to Bloch Bros. (Distillers) Limited, Glasgow, Scotland, a company registered under the laws of the United Kingdom of Great Britain and Northern Ireland. Whiskey. Class 49.

302,099. "EN FAMILLE" AND DESIGN. Registered Mar. 28, 1933. Neisler Mills, Inc., Kings Mountain, N. C., a corporation of North Carolina. Renewed Mar. 28, 1953. Table Napkins. Class 42.

302,388. ROYAL MOUNTIE. Registered Apr. 18, 1933. P. Ballantine & Sons, Newark, N. J. Renewed Apr. 18, 1953, to Pabst Brewing Company, Chicago, Ill., a corporation of Delaware. Malt Syrup. Class 46.

302,779. "TOP ROUND FLOUR" ETC. AND DESIGN. Registered Apr. 25, 1933. The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Renewed Apr. 25, 1953. Wheat Flour. Class 46.

302,793. "SANIHOLD" ETC. Registered Apr. 25, 1933. Sylvan M. Edison, doing business as Sanident Company, Chicago, Ill. Renewed Apr. 25, 1953, to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana. Denture Adhesive Powder. Class 51.

302,797. GOLDEN PALM. Registered Apr. 25, 1933. Habicht, Braun & Co. Renewed Apr. 25, 1953, to Smyrna Imports Co., Inc., New York, N. Y., a corporation of New York. Dates. Class 46.

302,945. "MAGNEX" ETC. AND DESIGN. Registered May 2, 1933. Firestone Battery Company. Renewed May 2, 1953, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Spark Plugs, Storage Batteries, and Storage Battery Parts Consisting of Positive and Negative Plates, Etc. Class 21.

302,964. "KEYSTONE" AND DESIGN. Registered May 2, 1933. A. D. Miller Sons' Company, Pittsburgh, Pa. Renewed May 2, 1953, to United Refining Company, Warren, Pa., a corporation of Pennsylvania. Gasoline. Class 15.

303,096. DUPLEX. Registered May 9, 1933. Keasbey & Mattison Company. Renewed May 9, 1953, to Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Insulation Products Especially Adapted as a Pipe Covering. Class 12.

303,097. SIMPLEX. Registered May 9, 1933. Keasbey & Mattison Company. Renewed May 9, 1953, to Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Insulation Products Especially Adapted as a Pipe Covering. Class 12.

303,264. "MENASHA FROSTY PACKIT" AND DESIGN. Registered May 16, 1933. The Menasha Products Company. Renewed May 16, 1953, to Marathon Corporation, Menasha, Wis., a corporation of Wisconsin. Receptacles Made of Pulp—Namely, Cartons. Class 2.

303,352. CLEVR-CLOSR. Registered May 23, 1933. Edward C. Bowers and Charles L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y. Renewed May 23, 1953, to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado. Door Springs. Class 13.

303,538. SANDY MAS. Registered May 30, 1933. Macdonald, Greenlees Limited, Leith, Scotland. Renewed May 30, 1953, to Macdonald Greenlees Limited, Edinburgh, Scotland, a limited liability company registered under the laws of Great Britain. Whisky. Class 49.

303,560. "ACE DRUG CO." AND DESIGN. Registered May 30, 1933. T. D. Perkins, San Diego, Calif. Renewed May 30, 1953. Mineral Oil Used for Medicinal Purposes, Quinine, Peroxide of Hydrogen, Etc. Class 18.

303,872. "ONE-STOP" AND DESIGN. Registered June 13, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed June 13, 1953. Tire Covers. Class 35.

304,058. "PLASTISEAL COILS" AND DESIGN. Registered June 20, 1933. Anaconda Wire and Cable Company, New York, N. Y., a corporation of Delaware. Renewed June 20, 1953. Electrical Coils. Class 21.

304,143. "HE-SHE" AND DESIGN. Registered June 20, 1933. Ray P. Helm, doing business as The Helm Company, Benton Harbor, Mich. Renewed June 20, 1953. Antiseptic Vaginal Suppositories. Class 18

304,157. LEAROK. Registered June 20, 1933. The Lea Manufacturing Company, Waterbury, Conn., a corporation of Connecticut. Renewed June 20, 1953. Abrasive Composition for Buffing, Coloring, Abrading, and Cutting Surfaces of Metal or Other Materials. Class 4.

304,223. PENN MAID. Registered June 27, 1933. The C. H. Musselman Company, Biglerville, Pa., a corporation of Pennsylvania. Renewed June 27, 1953. Canned Fruits, Fruit Preserves, Jellies, Etc. Class 46.

304,309. PLASTISEAL. Registered June 27, 1933. Anaconda Wire and Cable Company, New York, N. Y., a corporation of Delaware. Renewed June 27, 1953. Electrical Coils. Class 21.

304,520. VANITY FAIR AIRIELACE. Registered July 11, 1933. Vanity Fair Silk Mills. Renewed July 11, 1953, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania. Knitted and Textile Underwear and Hosiery for Women and Children—Namely, Vests, Bloomers, Etc. Class 39.

304,713. DUOSUEDE. Registered July 18, 1933. Alfred S. Eiseman, New York, N. Y. Renewed July 18, 1953, to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware. Piece Goods of Rayon. Class 42.

304,723. I R C. Registered July 18, 1933. International Resistance Company, Philadelphia, Pa., a corporation of Delaware. Renewed July 18, 1953. Resistors Such as Used in Radio Apparatus. Class 21.

304,748. CLAYMORE. Registered July 18, 1933. Macdonald Greenlees Limited, Leith, Scotland. Renewed July 18, 1953, to Macdonald Greenlees Limited, Edinburgh, Scotland, a limited liability company registered under the laws of Great Britain. Renewed July 18, 1953. Whisky. Class 49.

304,832. MAFALDA. Registered July 18, 1933. The Capital City Products Company, Columbus, Ohio, a corporation of Delaware. Renewed July 18, 1953. Refined Pure Vegetable Oil, Used for Salads and Cooking and Mayonnaise Purposes, in Cans and Barrels. Class 46.

304,963. MOUSSEC. Registered July 25, 1933. Moussec Limited, London, England, a limited liability company registered under the laws of Great Britain. Renewed July 25, 1953. Wines. Class 47.

304,965. OIL-O-MATIC. Registered July 25, 1933. Williams Oil-O-Matic Heating Corporation. Renewed July 25, 1953, to Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan. Domestic Hot Water Heater. Class 34.

305,043. "LUBAL" AND DESIGN. Registered July 25, 1933. Lubal, Inc., Columbus, Ohio, a corporation of Ohio. Renewed July 25, 1953. Top-Cylinder Lubricant. Class 15.

305,189. PEBBLE-FORD. Registered Aug. 8, 1933. Thomas C. Dennehy, doing business as Clear Spring Distilling Co., Chicago, Ill. Renewed Aug. 8, 1953, to Associated Kentucky Distilleries Co., Newport, Ky., a corporation of Kentucky. Whisky. Class 49.

305,485. REPRESENTATION OF SECTION OF MUSICAL INSTRUMENT STRING, LINED FOR RED, WHITE AND BLUE. Registered Aug. 15, 1933. Simson & Frey, Inc., New York, N. Y. Renewed Aug. 15, 1953, to Scherl & Roth, Inc., Cleveland, Ohio, a corporation of Ohio. Strings for Violins and Similar Musical Instruments. Class 36.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

303,519. WESTLAKE. Registered Oct. 26, 1948. Briardale Co., San Francisco, Calif. Washing Ammonia and Liquid Bluing. Class 6. Corrected as follows: A new declaration wherein *and* has been inserted in line 21 following "California," and "and Grocers Wholesale Company, Des Moines, Iowa," in lines 22 and 23 has been deleted, has been substituted for the original.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 441,172. Registered Oct. 26, 1948. Calresin Corporation, Culver City, Calif. Republished by Calresin Corporation, Arcadia, Calif., a corporation of California (1952).

PLASTITOOL

For Liquid Water Soluble, Polymerizable, Phenolic Casting Resin Composition.

Claims use since July 19, 1945.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 301,022. Registered Feb. 14, 1933. Koret, Inc., New York, N. Y., a corporation of New York. Republished by registrant.



For Ladies' Purses, Pocketbooks, and Hand Bags.

Claims use since on or about Sept. 1, 1932.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 302,926. Registered May 2, 1933. Theodor Leonhard Wax Co. Inc., Haledon, N. J., a corporation of New Jersey. Republished by registrant.

BB BRAND

The word "Brand" is disclaimed apart from the mark as shown.
For Beeswax.
Claims use since Jan. 26, 1932.

Reg. No. 303,921. Registered June 13, 1933. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

HERCOSE

For Cellulose Esters and Ethers.
Claims use since about Aug. 31, 1932.

CLASS 15

OILS AND GREASES

Reg. No. 40,411. Registered May 19, 1903. R. N. Nason & Co., San Francisco, Calif. Republished by Crown Central Petroleum Corporation, Baltimore, Md., a corporation of Maryland.

CROWN

For Lubricants.
Claims use since June 16, 1892.

Reg. No. 127,864. Registered Dec. 9, 1919. Penn American Refining Co., Oil City, Pa. Republished by The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania.

PENN AMERICAN

The words "Penn" and "American" are disclaimed except as used in conjunction with each other, as shown.
For Engine and Automobile Lubricating Oils.
Claims use since about Nov. 1, 1918.

Reg. No. 302,902. Registered May 2, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

STA-PUT

For Lubricating Oils and Greases.
Claims use since Nov. 25, 1932.

Reg. No. 302,904. Registered May 2, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

PERMASOL

For Cutting Oils.
Claims use since Nov. 25, 1932.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 299,928. Registered Jan. 3, 1933. American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls and Elmira, N. Y. Republished by Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware.

SPEEDIBILLER

For Autographic Registers.
Claims use since Dec. 19, 1931.

CLASS 25

LOCKS AND SAFES

Reg. No. 70,369. Registered Aug. 25, 1908. Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y. Republished by Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Ohio.

HALL'S STANDARD SAFE.

For Safes.
Claims use since Jan. 1, 1850.

Reg. No. 70,411. Registered Aug. 25, 1908. Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y. Republished by Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Ohio.

HALL'S SAFE & LOCK CO.

For Safes.
Claims use since 1845.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 303,980. Registered June 13, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

VIM TRED

For Leather Belting.
Claims use since Dec. 9, 1932.

CLASS 37

PAPER AND STATIONERY

Reg. No. 91,543. Registered May 13, 1913. American Writing Paper Company, Holyoke, Mass. Republished by American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware.

CLEARWATER

For Writing and Printing Paper.
Claims use since on or about Jan. 15, 1912.

Reg. No. 301,001. Registered Feb. 14, 1933. Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address, New York, N. Y.

RIEGELINE

For Glassine Paper.
Claims use since September 1931.

Reg. No. 301,387. Registered Feb. 28, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

PENDRIFT BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Writing and Printing Paper.
Claims use since Mar. 2, 1932.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 352,951. Registered Dec. 21, 1937. Victor M. Calderon Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

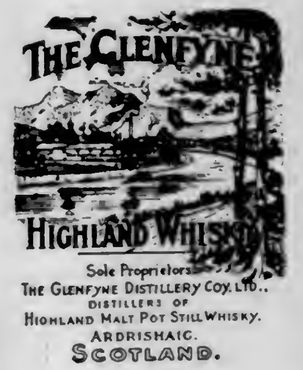


For Canned Sardines.
Claims use since May 12, 1936.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 302,733. Registered Apr. 25, 1933. The Glenfyne Distillery Company Limited, Ardrishaig, Scotland, a corporation organized under the laws of Great Britain. Republished by registrant.



The word "Glenfyne" is disclaimed apart from the mark as shown.
For Whisky.
Claims use since Sept. 10, 1926.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 297,262. Registered Sept. 6, 1932. Alex. C. Fergusson Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

AFCO

For Cleaning Compounds for General Household Use.
Claims use since November 1931.

REISSUES

MAY 26, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

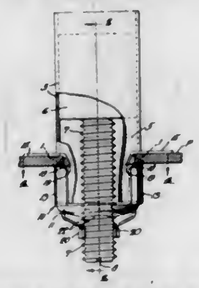
23,660

FASTENING DEVICE

Steve J. Andrews, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Original No. 2,539,172, dated January 23, 1951, Serial No. 2,679, January 16, 1948. Application for reissue January 30, 1953, Serial No. 334,386

6 Claims. (Cl. 248—27)



1. A clip fastener for attaching an instrument in an opening in a plate comprising a sheet metal body defining a base and spaced attaching arms extending from said base in generally tubular formation, the edges of said arms having inclined slits providing inwardly bent prongs and complementarily shaped shoulders for engaging said plate adjacent said opening, a pair of tongues severed from said fastener base and providing in said base circular thread elements bent to lie on a helix for uniform threaded engagement with a threaded member, said tongues having their end portions bent to provide smooth inner surface portions in spaced face to face relation and curved transversely in arcuate form for engaging substantial curved areas of the crests of the thread convolutions of the threaded member.

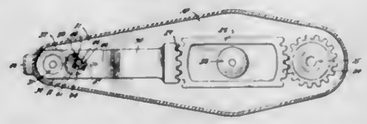
23,661

SOCKET WRENCH EXTENSION

Edward Thorne Able and Willard Krieger, Denver, Colo., assignors to B. K. Sweeney Mfg. Co., Denver, Colo., a corporation of Colorado

Original No. 2,600,177, dated June 10, 1952, Serial No. 104,644, July 14, 1949. Application for reissue October 8, 1952, Serial No. 313,817

11 Claims. (Cl. 81—57)



1. An extension wrench device comprising: an elongated housing; a power shaft provided with a wrench-receiving socket mounted in the outer extremity of said housing; a wrench shaft provided with a nut-receiving socket mounted in the inner extremity of said housing; a toothed drive pinion fixedly mounted on said power shaft; a lever arm of greater length than width rotatably mounted on said wrench shaft and projecting to one side only of the latter; an intermediate gear positioned between said pinion and the free extremity of said lever arm within said housing and in mesh with said drive pinion; teeth on the free extremity of said lever arm in mesh with said intermediate gear so that oscillation of said power shaft will be transmitted through said intermediate gear to said lever arm; and means transmitting the oscillation of said lever arm to said wrench shaft.

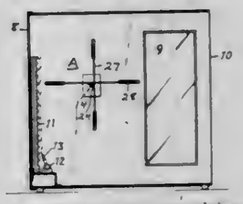
23,662

BARBECUE APPLIANCE

Charles R. Larkin, Toledo, Ohio, assignor of one-half to Glen M. Larkin, Quincy, Mich.

Original No. 2,545,818, dated March 20, 1951, Serial No. 113,067, August 30, 1949. Application for reissue June 25, 1952, Serial No. 295,597

8 Claims. (Cl. 99—421)



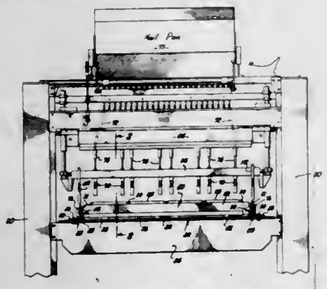
5. A barbecue appliance comprising a housing having top and side portions and an open front, a heater mounted in said housing and providing a wall of radiant heat energy which is directed toward the central portion of said housing, said heater and said housing being so constructed as to produce a region of heated air adjacent the top side of said housing, said heated air continuously flowing from said open front adjacent said top side whereby that portion of the housing beneath the path of such flow is relatively cool so that an individual may insert his hand in such cool portion without being burned, a rotatable metallic shaft extending through the housing in substantially parallel spaced relation with said heater, and radially arranged metallic spits on said shaft which are connected to said shaft in such a manner as to provide heat-conductive connections therebetween whereby heat transferred to said shaft will be conducted to said spits, said spits thereby being rotatable in planes substantially normal to the radiating area of said heater, said shaft being located vertically below the path followed by said heated air as it leaves said front portion, said spits further being of such length that the outer end portions thereof will pass adjacent said region of heated air, whereby each food particle impaled on a respective spit will be subjected on its opposite sides to radiant heat from said heater for each revolution of the shaft and will have at least a portion thereof subjected directly to said region of heated air, each food particle also being cooked internally by the heat conducted to the respective spit.

PATENTS

GRANTED MAY 26, 1953

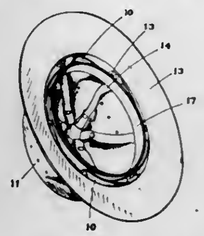
GENERAL AND MECHANICAL

2,639,427
BOX NAILING MACHINE
Grover C. Cable, Huntington Park, Calif.
Application September 8, 1951, Serial No. 245,694
15 Claims. (Cl. 1—8.1)



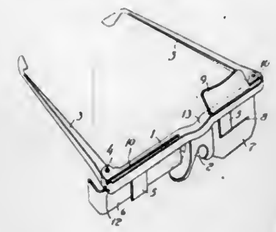
1. In a nailing machine in which a pair of work pieces are advanced along a track to a nailing positon in which a nailing member is lowered relative to said track to nail the two work pieces together, the combination therewith of: a stop movable relative to said track between operative and withdrawn positions, the advancement of said work pieces along said track being limited by said stop when in operative position to register said work pieces in nailing position relative to said nailing member, means controlled by advancement of said work pieces toward nailing position while said stop is in a withdrawn position for moving said stop into operative position, and means for withdrawing said stop from operative position to permit said pieces to be advanced beyond said nailing position.

2,639,428
HELMET
Thomas Traill MacLean, London, England, assignor to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application November 29, 1950, Serial No. 198,073
In Great Britain November 30, 1949
2 Claims. (Cl. 2—3)



1. A helmet comprising an outer shell, a plurality of elongated resilient strips located within the shell, each of said strips having an end secured to the shell and a free end, and extending circumferentially and uni-directionally around the shell, and said strips together covering approximately the whole of the circumference of the shell, a head-band located within the shell, and means for detachably connecting the free ends of said strips to the head-band.

2,639,429
CARRIER FOR EYEGLASSES, DIMMER-GLASSES, AND THE LIKE
Sven H. Lundberg, Lidingo, Sweden
Application October 23, 1950, Serial No. 191,523
In Sweden October 14, 1950
4 Claims. (Cl. 2—14)



1. A carrier for means for shielding the eye from the glare of headlights and other intensive illumination, comprising a horizontal shield supporting bar having a pair of bows, a nose bridge member and being provided with longitudinally arranged grooves for receiving corresponding tongue members of at least two shields for each eye, said grooves permitting the shields to be adjustable slidably along the horizontal supporting bar in relation to each other and to the eyes.

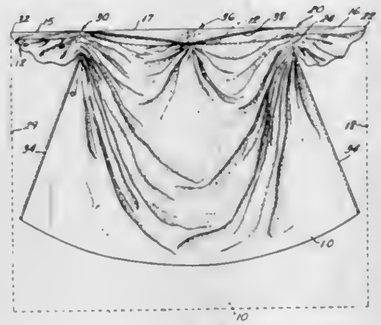
2,639,430
GLARE SHIELD FOR SPECTACLES
Charles J. Gale, New York, N. Y.
Application January 17, 1952, Serial No. 266,959
2 Claims. (Cl. 2—14)



1. Anti-glare eyeglasses comprising a pair of circular frames spaced transversely from each other, a nose piece between said frames, lenses mounted in said frames, said lenses being circular and formed of transparent material, and a

glare-repelling strip mounted against each lens, said strips each having an end portion extending horizontally in a plane above and parallel to the horizontal diameter of the lens to which it is applied from a point in spaced relation to a marginal edge portion of the said lens to a point slightly beyond the center of the lens, the remaining portions of the said strip extending diagonally from the horizontal portion at a downward incline towards the left hand side portion of the lens and terminating at the periphery of the lens in upwardly spaced relation to the lower ends of the vertical diameter of the lens.

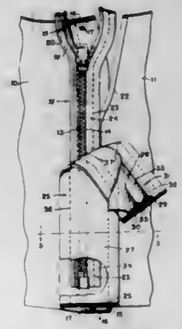
2,639,431
COVER GARMENT MADE FROM GATHERED CLOTH OR FILM
Winifred Spear, Flemington, N. J.
Application August 25, 1950, Serial No. 181,497
4 Claims. (Cl. 2—88)



4. A cover garment comprising a piece of cloth having top, bottom and side edges, said garment having ties at the opposite ends of its top, each of said ties being formed by displacing a side edge of the material inward and upward from a point substantially below the top of the material and into a gather zone, and fastening means permanently holding the gathers of material together in a predetermined relation in the gather zone at a region spaced inward from the end of the tie and only at that region so that the gathers in the tie beyond said region are free to fold and shift with respect to one another, said fastening means including a strip extending down at least one side of the gather zone across the gathers, and said gather zone comprising the inward end of the tie.

2,639,432
ZIPPER SHIRT
Morris L. Kaplan, Hazleton, Pa., assignor to The Shirtcraft Co., Inc., Hazleton, Pa., a corporation of New York
Application August 16, 1949, Serial No. 110,592
9 Claims. (Cl. 2—128)

1. A shirt having front sections and a front opening, edges defining said opening, a slide fastener structure having stringers carried by said edges, one of said edges having stitched thereto a covering member provided on its underside with ridge means defining a recess receiving the slide structure when the stringers are in connected relation, the outer face of said covering member being plain and smooth and having a continuous



portion extending over the ridge means on the inner side of the covering member.

2,639,433
GARMENT PARTS AND FOLDLINE-FORMING MEANS THEREFOR
Benjamin Liebowitz, Lewisboro, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York
Application March 31, 1950, Serial No. 153,050
12 Claims. (Cl. 2—131)



1. As an article of manufacture, a preformed foldline-forming strip of fabric at least one surface of which comprises a body portion carrying a latent activatable adhesive, a narrow non-adhesive zone of the order of $\frac{1}{4}$ inch in width adjacent one edge of said strip, and a narrow marginal portion which is not of substantially greater width than said zone and which carries latent activatable adhesive between said zone and said edge of said strip, said zone being disposed between and bordered by said body portion and said marginal portion, said strip of fabric on the opposite surface thereof being coated with resist material which is disposed along and is substantially confined to that portion of said opposite surface corresponding to said zone, and said strip being adapted to be disposed between plies of a collar having a collarband portion and a collartop portion for disposition predominantly in the collarband portion thereof with said zone disposed along the foldline between the collartop and collarband portions of the collar.

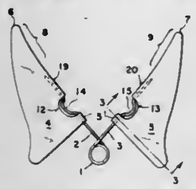
2,639,434
COLLAR AND LIKE GARMENT PARTS
Benjamin Liebowitz, Lewisboro, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York
Application July 21, 1950, Serial No. 175,269
21 Claims. (Cl. 2—131)

1. A one-piece fused collar having a collartop portion and a collarband portion and comprising at least two plies fused together in face to face relation substantially throughout and a strip of fabric in the collarband portion of the collar, one surface of which is fused to one of

said plies except for a narrow zone adjacent one edge of said strip that is disposed in the collar foldline and the opposite surface of which is fused to a third ply except in said narrow zone adjacent said edge of said strip, said third ply and the ply on the opposite side of said strip being fused together in face-to-face relation substantially through except where said strip is interposed therebetween, thereby providing at least two plies fused together in the region of the foldline which impart substantial stiffness in said region, two additional plies of fabric fused therewith and to each other in the collarband portion of the collar which impart substantially increased stiffness in the region of said collarband portion immediately adjacent said foldline and one additional ply of fabric fused therewith in the collartop portion of the collar which imparts greater stiffness than that in said foldline region, the discontinuity in stiffness between said foldline region and the bordering collarband and collartop portions of the collar being produced by said strip and being located by the border between said unadhered zone of said strip which is disposed in the collar foldline and the portion of said strip in the collarband which is fused to the collar plies in contact with the surfaces thereof.

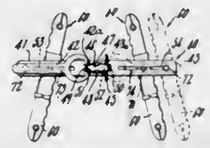


2,639,435
COLLAR ATTACHMENT
Joseph W. Less, Clinton, Iowa
Application February 12, 1951, Serial No. 210,453
8 Claims. (Cl. 2—132)



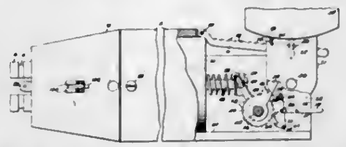
1. In a device of the class described, the combination of a pair of arms, spring means connecting said arms and maintaining said arms in a normally divergent position when said spring means is relaxed, and a pair of generally triangular collar wing supporting and shaping members of flexible material carried one by each of said arms, each of said collar wing supporting and shaping members being positioned with one apex thereof pointing in the same direction as the free end of the arm carrying said member, and the point of each collar wing supporting and shaping member defining said one apex being offset toward the space between said arms when said arms are in said divergent position; said arms being movable into general alignment with each other against the action of said spring means to enable insertion of said collar wing supporting and shaping members beneath the wings of a collar, and the tension of said spring means urging the offset portions of said supporting and shaping members against the fold line of the collar, when the device is worn, to cause said supporting and shaping members to be flexed into convex form so as to impart such form to the collar wings overlying said members.

2,639,436
COLLAR HOLDER
Oscar Gavrilovich, New York, N. Y.
Application February 5, 1947, Serial No. 726,688
2 Claims. (Cl. 2—132)



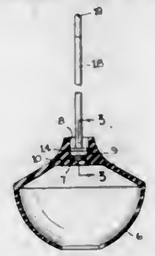
1. A device for application to a soft collar of wearing apparel for stiffening said collar and for holding in place adjacent side edges thereof, comprising a substantially horizontal clamping member adapted to extend across and in contact with the outer face of said side edges, brace elements coupled to and disposed for swinging movement with respect to said member, and pivot means on each brace element, said clamping member including means cooperating with said pivot means to detachably couple the respective brace elements to said clamping member, said brace elements in applied position extending in a direction along said side edges of said collar and bearing against the inner face of said side edges.

2,639,437
MECHANICAL HAND
Thomas C. Harry, Ferndale, Mich.
Application December 1, 1947, Serial No. 789,098
12 Claims. (Cl. 3—12.6)



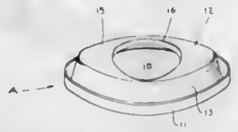
1. An artificial limb including a forearm portion and a hand portion detachably connected therewith, a stump supporting cup pivotally attached to the inner end of said forearm portion, axially disposed cylinders of different sizes in said forearm portion, pistons operable in said cylinders, piston rods attached to said pistons, a hydraulic fluid storage tank in said forearm portion, means for admitting hydraulic fluid from said tank to said cylinders, ratchet operating means connected with one of said piston rods operable upon reciprocating movement between said forearm portion and said stump supporting cup, gear connected finger sections supported by said hand, and means disposed between said finger sections and the second piston rod for actuating said finger sections when hydraulic fluid is pumped from said fluid storage tank into said cylinder.

2,639,438
JOINT OR COUPLING BETWEEN TANK BALL AND LIFT ROD
Philip Hertzberg, Cleveland, Ohio
Application September 19, 1951, Serial No. 247,258
6 Claims. (Cl. 4—56)



1. In combination, a tank ball having a metallic member embedded in the upper central portion thereof, said member having a lower portion of non-circular external cross-section, whereby to resist rotation of said member relatively to said ball, said member having a hemispherical socket in the upper end thereof forming a hearing surface, a snap fastener disposed above said member and rigidly secured to the upper end of said member, the material of said tank ball extending over a portion of said snap fastener, whereby to resist vertical displacement of said member and fastener from the tank ball, and a lift rod having a ball portion at the lower end thereof disposed in said socket and removably retained in said socket by said snap fastener.

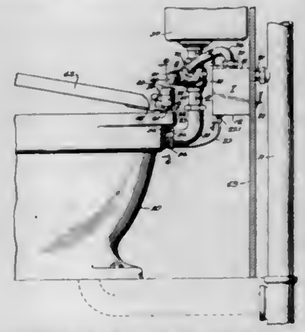
2,639,439
BEDPAN
Guy A. Perry, Stillwater, Minn., assignor to F. M. McCarten, Stillwater, Minn.
Application October 6, 1947, Serial No. 778,181
2 Claims. (Cl. 4—112)



1. A bed pan including a relatively flat base panel, an upwardly and inwardly inclined wall connected to said panel near the outer extremity thereof, said inclined wall including a gently sloping rear wall portion and steeply sloping side and front wall portions, a substantially flat surface connected to said inclined wall at the top thereof, an elongated aperture in said top extending close to said inclined wall at the front and rear ends thereof and providing wide flat areas on each side of the aperture, and an encircling upwardly extending flange encircling said upwardly inclined wall and spaced outwardly therefrom.

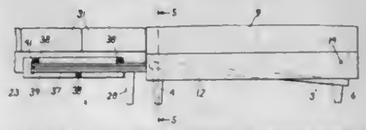
2,639,440
VENTILATOR FOR WATER CLOSETS
Charles J. Majauskas, Chicago, Ill.
Application May 5, 1950, Serial No. 160,198
4 Claims. (Cl. 4—213)

3. In a ventilator for a water closet bowl including a housing adapted to be mounted on a building wall adjacent to a vent stack, a vent valve fitting disposed within said housing and having an inlet and outlet, a motor disposed within said housing, a blower driven by said motor and having inlet and outlet ports, means to connect the inlet and outlet of said valve fitting to said bowl and inlet port of said blower respectively, means to connect the outlet of said blower to said vent stack, a valve within said valve fitting biased to close communication between said bowl and blower, an actuating arm on said valve extending through said valve fitting, a solenoid within said housing having its armature connected to said actuating arm, a vertically disposed pair of posts mounted on said bowl and having chambered hub parts offset from channeled stems extending through a rim portion of said bowl, plungers within said



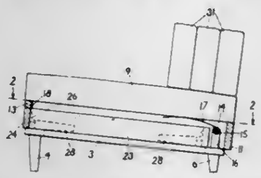
hubs having pins extending below said hubs, seat hinges pivotally secured to said posts, tongues on said hinges normally contacting the lower ends of said pins, springs disposed within said hubs and urging said pins downwardly to partially raise the bowl seat, an insulating block mounting a pair of spaced electrical contacts and disposed within the upper part of the hub of one of said posts, wires extending through the channeled stem of said one post connected to said contacts and connected to the motor and solenoid in said housing, and an insulating member carried by said plunger in said one post and adapted to close said contacts when said seat is depressed against the action of said springs to energize said motor and solenoid and thereby drive said blower and open said valve.

2,639,441
SOFA AND DOUBLE BED COMBINATION
Harry S. Vakassian, New York, N. Y.
Application July 18, 1951, Serial No. 237,378
6 Claims. (Cl. 5—18)



1. A sofa and double bed combination comprising a base frame, longer front feet and shorter rear feet supporting said base frame in a rearwardly declining position, a mattress positioned over said base frame, a shaft extending horizontally parallel to the rear side of said mattress and rotatably connecting said mattress to said base frame whereby said mattress is turnable between a rearwardly declining posi-

tion about parallel to said base frame and a horizontal position, said mattress, in said horizontal position resting on said base frame, and, in said declining position, having a vertical distance from said base frame, and a bed frame having a height not larger than said distance, having a width and length smaller than the



width and length of said mattress and having a lower surface slidably contacting the upper surface of said base frame whereby said bed frame is shiftable between a position between said base frame and mattress and a position in front of the same, said bed frame, in its first mentioned position supporting said mattress.

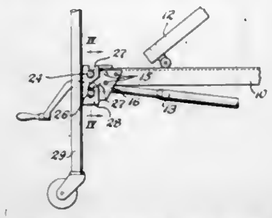
2,639,442
BED, ESPECIALLY A CAMP BED
Eduard Herzog, Zurich, Switzerland
Application January 12, 1949, Serial No. 70,559
In Switzerland January 18, 1948
3 Claims. (Cl. 5—112)



1. A camp bed comprising side rails, a flexible support sheet carried by and between said rails and adapted to support the entire weight of the body of the person resting on the bed; a plurality of additional flexible sheets disposed beneath said support sheet in spaced relation to one another and to said support sheet; a plurality of transverse support members; each of said support members comprising two tubular members; each of the latter having a substantially horizontal end portion and an upright portion having an end connected with one of said side rails, at least the horizontal portion of one of said members having a larger diameter than that of the other member for telescopingly receiving the horizontal portion of the other member, a plurality of axially spaced holes placed pairwise in diametrically opposite position in said larger diameter member and tapering from the inside to the outside thereof, and an axially compressible pin means diametrically positioned in the smaller diameter tubular member and having tapered end portions extending into the diametrically opposed holes in said larger diameter member and adapted to be retracted from said holes upon compression of the pin means.

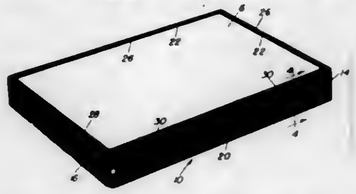
2,639,443
SUPPORT FOR BED FRAMEWORK
Edward J. Strybel, Cincinnati, Ohio, assignor to Campbell and Company, Cincinnati, Ohio, a partnership
Application July 8, 1949, Serial No. 103,635
1 Claim. (Cl. 5—294)

A bed which comprises a pair of spaced side rails, each side rail having a substantially vertical flange, a vertical gusset plate removably attached to the vertical flange of each side rail at one end thereof, each gusset plate being selectively attachable to either side of the flange with which it is associated, each gusset plate having a portion extending beyond the end of its associated side rail, said portion of each gusset plate containing a bore and a vertical slot vertically spaced from the bore, a transverse lug mounted in each of said slots and bores, each of said lugs



having a portion extending outwardly from one side of the gusset plate with which it is associated and removably received in a lug holding slot of one of a pair of spaced lug holding plates attached to a bed end frame, the lug in the slot of each gusset plate being movable up and down in the slot to adjust the spacing of the lugs, so that the lugs are receivable in lug holding plates having lug holding slots of various spacings, and means for locking each movable lug in predetermined position of adjustment in its slot.

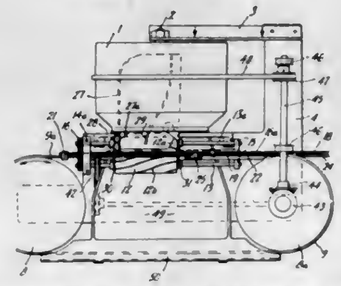
2,639,444
MATTRESS COVER
Estelle S. de Monsabert, New Orleans, La.
Application August 7, 1950, Serial No. 178,081
1 Claim. (Cl. 5—354)



In combination, a compressibly resilient mattress of a given size, a substantially flat top panel, a corresponding flat bottom panel underlying said top panel and disposed in normally spaced parallelism with said top panel, said panels being each rectangular in shape and of a size conformable in size with that of the top and bottom sides of said mattress, said panels being of transparent smooth surfaced moisture-proof pliant sheet material, and a relatively rectangular boxing at right angles to said panels and having upper and lower marginal edge portions corresponding with the cooperating marginal edge portions of said top and bottom panels and combining therewith and defining a box-like casing enveloping said mattress, said boxing being made of material which is rough finished woven elastic webbing and completely bordering the marginal edges of said panels, said webbing being sufficiently stiff in texture and yet yieldable to a degree that when said panels are moved in directions away from each other the webbing is placed under tension, and the upper and lower marginal edge portions of said box-

ing overlapping the cooperating and corresponding marginal edge portions of said top and bottom panels and being stitched thereto and reinforcing the over-all casing and also providing anti-slipping flanges which, in use, serve to assist in retaining bed clothing satisfactorily in place on the uppermost panel.

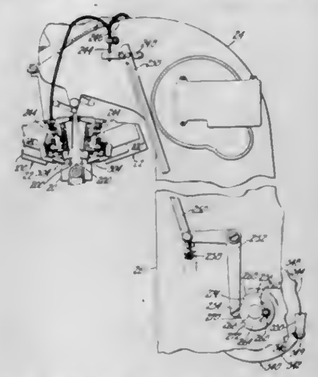
2,639,445
HOPPER-FEED APPARATUS FOR METAL THREAD SCREW BLANKS AND THE LIKE
Victor Hill Fray, Auckland, Auckland, New Zealand
Application May 26, 1949, Serial No. 95,492
In New Zealand July 26, 1948
4 Claims. (Cl. 10—170)



1. Improved hopper-feed apparatus for headed metal thread screw blanks and the like wherein a hopper for holding the blanks is provided with means for discharging said blanks therefrom, such discharged blanks being deposited onto conveyor means formed in part by a traveling band and which presents a gap in which gap the blank shanks can hang vertically parallel with the adjacent face of the band suspended with their heads bearing on the conveyor means, means for ejecting blanks when incorrectly carried by the conveyor means, and means for receiving the blanks as deposited from the hopper and agitating and spreading same on the conveyor means comprising a pair of rotatably mounted power driven rollers disposed parallel with the conveyor means and having a space between same the bottom of which is closed by such conveyor means, the surfaces of such rollers having helix grooves or the like formed therein and rigidly mounted end plates extending across the ends of the rollers to close the gaps between same except for a space between the bottom edge of one end plate and the top of the conveyor means.

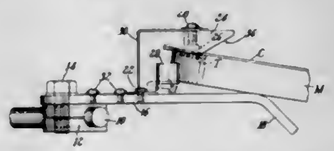
2,639,446
MACHINE FOR OPERATING ON SHOES
Herman A. Imhof, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 17, 1951, Serial No. 221,482
26 Claims. (Cl. 12—10.3)

26. A machine for lasting shoes having, in combination, a pair of devices each including a gripper for tensioning the upper materials of a shoe and a fastening-inserting mechanism for securing the lasting margin of the tensioned stock in lasted position, in different locations along the opposite sides of the bottom of the shoe, progressively, in a plurality of successive operating cycles, each of said grippers comprising a pair of jaws, a vertically reciprocable actuating member operable to effect opening and closing of said jaws and to impart heightwise movement thereto, relatively to the bottom of the shoe, power-operated means for reciprocating said actuating members, mechanism associated with the power-operated means for varying the extent of downward movement imparted to said actuating members, during predetermined operating cycles of said devices, latch members associated with said grippers and arranged to connect the actuating members to the gripper jaws, thereby discontinuing closing



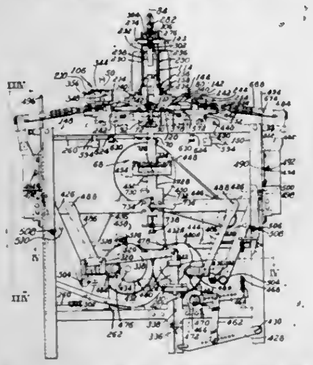
movements thereof, stop pins carried by said devices for disconnecting said latch members when maximum movements are imparted to said actuating members, a member associated with each of said devices and operable to remove fastenings previously inserted into the shoe, mechanism for rendering said fastening-removing members operative during predetermined operating cycles of said devices, and means controlled by said last-mentioned mechanism for displacing said stop pins to positions in which the latch members connect the gripper jaws to said actuating members, regardless of the extent of downward movements thereof.

2,639,447
APPARATUS FOR USE IN MAKING INSOLES
George F. C. Burke, Fairhaven, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 24, 1950, Serial No. 145,963
10 Claims. (Cl. 12—17)



4. Apparatus for use in attaching canvas to an insole-shaped matrix having a tang near its rear end comprising a plate having a fulcrum for the matrix, an abutment above the plate and attached thereto, and a gage fixed to the plate for locating the tang on the matrix with respect to the abutment so that movement of the matrix about the fulcrum will cause the canvas to engage the abutment and be pushed onto the tang.

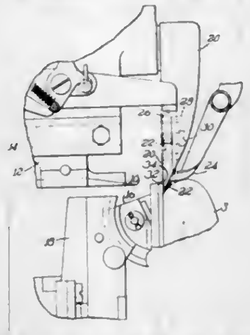
2,639,448
HEEL SEAT FITTING MACHINE
Frank A. Eich, deceased, late of Melrose, Mass., by Elizabeth A. Eich, administratrix, Melrose, Mass., and Lloyd G. Miller, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 7, 1949, Serial No. 80,054
27 Claims. (Cl. 12—31.5)



9. In a heel seat fitting machine, a platen for supporting a heel seat portion of an outsole of a shoe, said platen having a U-shaped opening and comprising side crease plates edges of which define the sides of said opening, means for trimming the heel seat portion of the outsole to fit the shoe for the reception of a heel, said means comprising shoulder forming knives having cutting edges, rectilinear guideways for controlling movement of the knives in paths disposed at right angles to a heightwise median plane of the platen, circular guideways for controlling movement of the knives in curved paths extending transversely of the outsole about axes which lie in the vicinity of said plane and which extend heightwise of the shoe and are arranged substantial distances forward of a heel breast line of the outsole, means for effecting angular bodily setting up adjustments of the knives between positions in which faces of the knives, in which faces cutting edges of the knives lie, are substantially parallel to and are movable along said rectilinear guideways for operation upon Louis work and positions in which said faces are tangent to and the cutting edges lie in and are movable along said curved paths for operation upon Cuban work, means for selectively operating the knives in said rectilinear or curved paths to form upon the outsole heel breast receiving shoulders shaped and arranged for the reception of Louis and Cuban heels respectively, said platen being adjustable lengthwise of the U-shaped opening of the crease plate with relation to said guideways to move forward edges of the side crease plates into different positions adjacent to the rectilinear or curved paths of movement of the shoulder forming knives, and means for moving the circular guideways into different angularly adjusted positions.

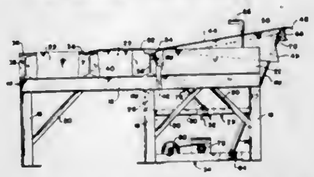
19. In a heel seat fitting machine, a platen comprising a back crease plate and side crease plates shaped and arranged to support a heel seat portion of an attached outsole of a shoe and having edges forming a U-shaped opening, a heel gage comprising an abutment for measuring a heel lengthwise, a stop which is operatively connected to and is positioned by said abutment, means for moving the back crease plate with relation to the side crease plates to predetermined positions in accordance with the position of the stop, means comprising bulger members for forcing the central part of the heel seat portion of the outsole through the U-shaped opening and beyond faces of the side crease plates, and knives which are movable inward from opposite sides of the outsole and portions of the cutting edges of which are movable along said faces of the side crease plates and transversely of the outsole to form a heel seat tab and other portions of the cutting edges of which are movable along front edges of the side crease plates and transversely of the outsole to form heel breast receiving shoulders.

2,639,449
SOLE ROUNDING AND CHANNELING MACHINE
Corwin W. Baker, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application February 12, 1949, Serial No. 76,043. Divided and this application February 10, 1951, Serial No. 210,395
5 Claims. (Cl. 12—85)



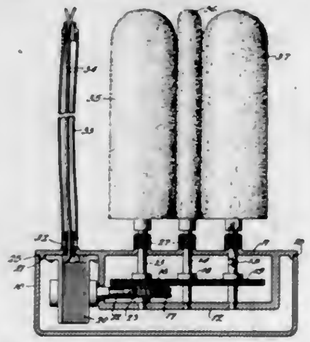
5. In a sole rounding machine, a member arranged to support the upper margin of a shoe sole, a cutter mounted upon said member and arranged to make a kerf in the upper margin of the sole along a line to which the sole is to be rounded, and a tool for rounding the edge of the sole, said tool being movable through the bottom of the sole into the kerf to complete the rounding cut across the sole edge.

2,639,450
DOCK LOADING RAMP UNIT
Robert C. Ramer, Yoe, Pa., assignor to Wm. Christensen Co., Inc., York, Pa., a corporation of Pennsylvania
Application April 30, 1951, Serial No. 223,741
6 Claims. (Cl. 14—71)



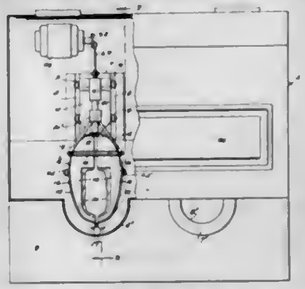
1. A loading ramp assembly for a dock comprising in combination, a frame arranged to be fixed relative to a dock and including horizontally spaced beams positionable substantially parallel with the floor plane of said dock, supporting means extending transversely to said spaced beams and spanning the same for slidable support thereby and the uppermost portion of said supporting means being substantially flush with the floor plane of said dock when so supported by said beams, a tail-plate connected at its forward edge to said supporting means, a member fixed relative to said frame means and positioned rearwardly of said supporting means and arranged to slidably support the rear edge of said tail-plate substantially within the floor plane of said dock, a ramp plate pivotally connected at its rear edge to said forward edge of said tail-plate, and an actuating mechanism interconnected to said supporting means and said ramp plate and operable to move the supporting means, ramp plate, and tail-plate forwardly and backwardly relative to the forward edge of a dock and another actuating mechanism also operable to move the forward edge of said ramp plate vertically relative to a vehicle when adjacent said dock edge to effect engagement between said vehicle and forward edge of said ramp plate, said tail-plate being movable substantially within the floor plane of said dock and bridging the space between said supporting means and said member.

2,639,451
PORTABLE GLASS WASHER
Thomas G. Ford, Riverside, Ill.
Application July 21, 1947, Serial No. 762,469
1 Claim. (Cl. 15—76)



In washing apparatus of the character set forth, a casing providing a container adapted to receive oil, a closure plate adapted to provide a watertight closure for said container, shafts supported by said closure plate for rotation and extending therethrough, gears connected to said shafts within said casing, an induction motor mounted within said casing and suspended from said closure plate, means connecting the shaft of said motor with said gears to operate the same, a pair of large brushes carried by two of said shafts mounted in said closure, a small brush carried by another shaft mounted in said closure and extending between said first-mentioned brushes in close juxtaposition therewith, cables extending through said closure plate to supply current to said motor, and a water-proof flexible tube joined to the casing for enclosing said cables and providing a pressure relief passage from the interior of the casing, said tube being of sufficient length to extend above the level of the liquid in which the apparatus is to be immersed.

2,639,452
SHOE POLISHING DEVICE
Porter D. Douglass, Oakland, Calif., assignor to Douglass Automatic Shoe Shining Co., a corporation of California
Application February 11, 1947, Serial No. 727,761
1 Claim. (Cl. 15—97)

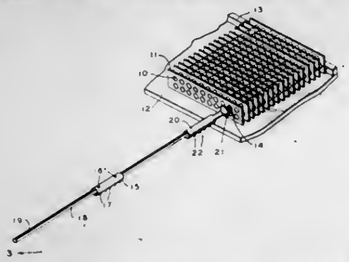


In a shoe polishing device, a cabinet comprising a base, and a front wall having a shoe opening extending forwardly therefrom, a platform mounted on the base, a reciprocating wheel supported carriage mounted within the cabinet, movable over said platform, a pin rising from the carriage adjacent to one end thereof, a pair of horizontally disposed elongated polishing heads, said polishing heads being curved throughout their lengths adapted to completely encircle a shoe positioned therebetween, substantially wide spring arms secured against the sides of the polishing heads, pivotally mounted on said pin and normally urging the polishing heads towards each other to contact a shoe disposed between the polishing heads, a bracket rising from the carriage, a pair of horizontal pivoted arms connected between said spring arms and bracket, a coiled spring connected between the ends of the horizontal pivoted arms connected to said spring arms normally biasing the polishing heads into contact with a shoe positioned between the polishing heads, a motor mounted on the base, a link connecting the motor to the carriage whereby said carriage is reciprocated, and the polishing heads are moved over a shoe held between the polishing heads, and the polishing members secured to and conforming to the curved surfaces of the polishing heads.

2,639,453
DEVICE FOR CLEANING THE TUBES OF AUTOMOBILE RADIATORS AND THE LIKE
James Sutton Rouse, Greenville, N. C.
Application May 20, 1947, Serial No. 749,311
2 Claims. (Cl. 15—104.05)

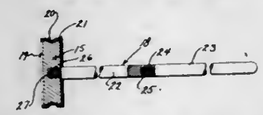
1. A device for cleaning tubes of a radiator or the like comprising a relatively thin, flexible, narrow, elongated cleaning rod adapted to be inserted in and forced axially of a tube to be cleaned, a reinforcing and guiding housing enclosing said rod, a handle fixed to one end of said rod, said handle being hollow to surround the rod and housing and being guided by the housing, an inwardly extending connecting means secured to said rod and handle and spacing the rod inwardly of the hollow portion of the handle, said housing having an opening disposed longitudinally thereof for the reception of said connecting means thereby permitting reciprocation of said rod in said housing, a second handle fixed to the end of the housing adjacent the operative end of the

rod so as to permit holding of the housing and hence guiding of the rod during manipulation of the same, and an enlargement secured to the



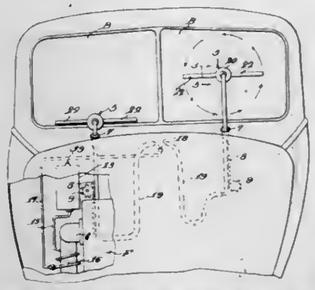
outer end portion of the second handle for shielding the operator against the contents of the tube being cleaned.

2,639,454
PUSHER FOR ICE AND SNOW
Daniel R. Dory, Milwaukee, Wis.
Application December 8, 1950, Serial No. 199,732
1 Claim. (Cl. 15—245)



An implement for pushing snow off of the bodies of automobiles comprising a head including a solid block having flat front and rear faces, said rear face being provided with a socket, a handle having its forward end fitted in the socket, the marginal edges of the block having a continuous groove and a flat elastic band fitted around the marginal edges of the block for snug engagement therewith and the walls of the groove, said band projecting slightly beyond the front and rear faces of the block.

2,639,455
ROTARY WINDSHIELD WIPER
Gustav T. Schwarzmann, Washington, D. C.
Application October 3, 1947, Serial No. 777,718
1 Claim. (Cl. 15—250.4)



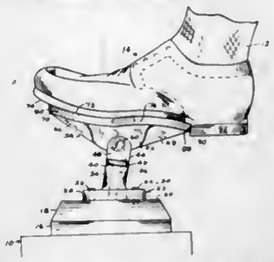
A windshield wiper for vehicles comprising a pipe, an air pressure line to the pipe, a case rotatably mounted upon the pipe, windshield wipers carried by the case, vanes in the case, and jets projecting from the pipe for delivering air under pressure against the vanes to rotate the case and wipers, said case being provided with laterally disposed arms, said wipers being carried by the arms, said arms having openings therein and being in communication with the case so that air can pass therethrough and onto a windshield against which the wipers operate, means for heating air supplied by the pipe, and means for lowering and raising the pipe consisting of rack teeth on the pipe, a gear meshing with the rack teeth, a shaft carrying the gear and extending inwardly of said vehicle to a point convenient to the operator thereof, and a handle at the inner end of said shaft for rotating the same.

2,639,456
HANDLE ASSEMBLY FOR VACUUM CLEANERS
Floyd T. Smith, Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 24, 1947, Serial No. 781,836
12 Claims. (Cl. 15—257)



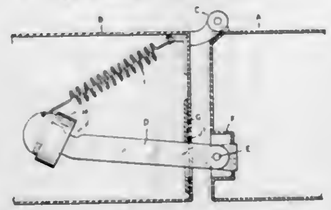
1. In a vacuum cleaner handle assembly, a pair of converging handle tubes having a cord-reel housing secured to and a transversely extending pick-up handle secured between the divergent ends of the tubes and having a hand-grip secured to the convergent ends thereof, the said hand-grip comprising a first half having a pair of spaced converging recesses so constructed and arranged as to accommodate the convergent ends of said handle tubes, a second half having a pair of spaced recesses that are complementary to said recesses in said first half, and a strap of which the opposite ends are wrapped around the ends of said handle tubes and thence secured to said first half.

2,639,457
AUTOMATIC SHOE REST AND SUPPORT
Michael McCormick, New York, N. Y., assignor of one-half to George Candler, New York, N. Y.
Application January 30, 1950, Serial No. 141,287
1 Claim. (Cl. 15—265)



A shoe rest and support device comprising a platform, a main base member disposed on said platform, means securing said main base member to said platform, an upstanding extension member carried by said main base member, and having formed therein a socket bore angularly inclined relative to the vertical, said upstanding extension member having an upper surface upon which said socket bore opens, and lying in a plane substantially at right angles to the axis of said socket bore, spacer means carried on the said upper surface of said upstanding extension member and having an aperture overlying and in registry with said socket bore, a web member carried by said spacer means, pin shaft means carried by said web member and depending therefrom through said aperture in said spacer means and extending rotatably into said socket bore means, being movable with said web member about the axis of said socket bore, a plurality of upstanding spaced walls carried by said web member, a depending flange member extending downwards between said plurality of upstanding spaced walls, said spaced walls being constructed and arranged of resilient material and normally spaced apart a distance less than the width of said flange member so as to resiliently embrace each side of said depending flange member, second shaft means penetrating said depending flange member and said spaced walls resiliently embracing the same, and shoe sole support plate means carried by said depending flange member and constructed and arranged and curved to engage with the lower surface of a shoe sole of a shoe, and heel engaging means carried at the rearward end of said shoe sole support plate means and constructed and arranged for engagement with the leading edge of the heel of said shoe, and constructed and arranged so as to avoid engagement with any other surface of said heel, the engagement of said heel engaging means being identical regardless of the thickness of heel of said shoe.

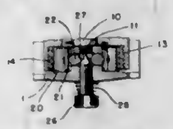
2,639,458
COMBINED CHECK AND OPENER FOR CLOSURES
Paul H. Travis, Leonard, Mich.
Application January 25, 1950, Serial No. 140,460
9 Claims. (Cl. 16—1)



1. A combined check and opening and holding means for a closure member comprising an arm adapted to extend between said closure member and the member on which it is mounted, said arm adapted to be pivotally anchored at one end to one of said members and to extend through a slotted passage in a striker plate attached to the other of said members, a buffer mounted on said arm adjacent to its free end, a latch shoulder on said arm adjacent to said buffer for engaging said striker plate in the open position of said closure, and resilient means secured at one end to the free end of said arm and adapted to be secured at the other end to said striker plate for biasing said arm towards latching engagement with said striker plate.

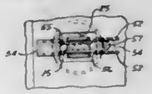
2,639,459
DOOR CLOSER
Willy W. Werner, Detroit, Mich.
Application February 27, 1950, Serial No. 146,567
4 Claims. (Cl. 16—65)

1. A brake means for a door check mechanism comprising, a brake drum, a brake lining attached to the inner peripheral surface of the brake drum, a rotatable member within said brake drum and rotatable relative thereto, a helical spring having one end attached to the drum and the other end attached to said rotatable member, a pair of cylindrical members in diametrically opposite positions carried by said rotatable member and within said brake drum, a



supporting member pivotally attached to each of said cylindrical members, the axes of said cylindrical members lying parallel to the axis of said brake drum and the pivotal attachment between said cylindrical members and said supporting members being off-center relative to the geometrical axes of the cylindrical members, and means for adjusting the supporting members toward or away from said brake lining.

2,639,460
DOOR CHECK AND HOLDING DEVICE
Rudolph I. Schonitzer, Shaker Heights, Ohio
Application May 3, 1948, Serial No. 24,794
2 Claims. (Cl. 16—86)



1. In a door check and holding device structure for use with a door member and its supporting frame member, an open-ended stamped metal channel element adapted to be mounted on one of said members, said channel element comprising two parallel spaced ribs forming the opposite sides of the channel element and spaced webs at the opposite ends of and integral with said ribs and forming the base portion of said channel element, said webs being disposed substantially normal to said ribs and connecting the end portions only of said ribs whereby a link supported on the other of said members may have sliding movement between said ribs in a plane normal to the plane of said webs, said end portions of said ribs being spaced apart farther than the mid-portions thereof.

2,639,461
DOOR SLAM MUFFLER MEANS
Ben L. Fry, St. Louis, Mo., assignor to Iisa Manufacturing Co., a corporation of Missouri
Application August 9, 1950, Serial No. 178,500
2 Claims. (Cl. 16—86)

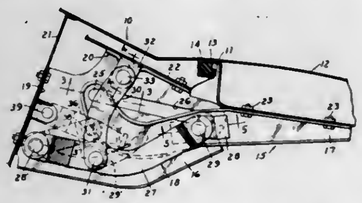
1. A buffer for placement between a door and its jamb, said buffer comprising an elongated channel element having spaced elongated side walls and end walls closing the opposite ends of said side walls, a highly compressible cushion snugly held between said side and end walls and extending substantially the full distance between the latter to guide said cushion into said channel element during its compression, said side walls being substantially co-extensive with the major portion of the width and length of said cushion whereby the outer edge of the latter projects a predetermined distance beyond the edges of said walls and the door-engaging surface of the jamb

and is engageable by closure movement of said door to produce a compression of the cushion throughout its full depth to thereby force the outer edge of the cushion into the space between said channel walls and whereby further closure movement of the door will be limited by engagement with the free edges of all of said walls and



the door-engaging surface of the jamb, and ears projecting from the opposite ends of one of said side walls and lying in a plane entirely to one side of said cushion and provided with screw-receiving apertures whereby fastening screws may be inserted into said jamb from either face of said ears.

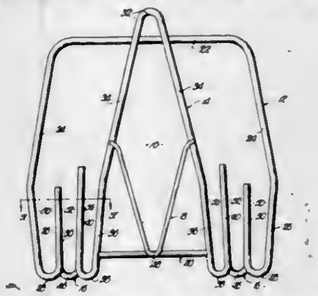
2,639,462
HINGE CONSTRUCTION
Carl C. Fish, Detroit, Mich., assignor to Ferro Stamping Company
Application March 21, 1949, Serial No. 82,516
10 Claims. (Cl. 16—166)



1. A hinge structure for a swinging closure, comprising a fixed mounting bracket, an arm adapted to be fixed at one end to the closure, a combined slidable and pivotal connection between the other end of the arm and mounting bracket enabling sliding movement of the arm relative to the bracket during swinging movement of the closure, a first link having one end portion pivoted to said arm, a second link pivotally connecting the other end portion of the first link to the bracket, and a combined slidable and pivotal connection between the first link and bracket for guiding swinging movement of the arm along a predetermined path of travel.

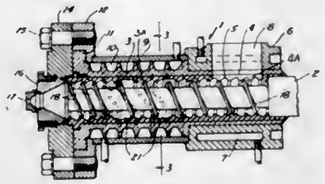
2,639,463
RIGID TYPE SHACKLE FOR HANGING POULTRY
Ralph S. Zebarth, Hickman Mills, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri
Application May 21, 1951, Serial No. 227,479
9 Claims. (Cl. 17—44.1)

1. A poultry shackle comprising a frame having a pair of spaced sets of elongated fingers, there being more than two upright, substantially parallel fingers in each set thereof and disposed to present a plurality of leg-receiving spaces; and



means joining the fingers for closing the spaces at the lowermost ends thereof.

2,639,464
EXTRUSION APPARATUS
Wilhelm A. Magerkurth, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application January 3, 1950, Serial No. 136,635
4 Claims. (Cl. 18—12)

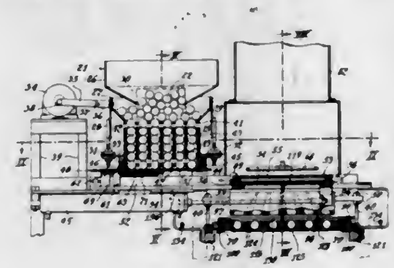


1. Extrusion apparatus comprising an internally threaded cylinder formed with a feed opening and a discharge opening at its opposite ends for material to be extruded, an extenally threaded feed screw in said cylinder operative when rotated relative to a body of material introduced into said cylinder through the feed opening to cause flow of the material toward the discharge opening, the threads in said cylinder and on said screw being of the same hand and extending continuously around the same longitudinal portions of said cylinder and said screw whereby the threads in said cylinder induce a counterflow of the portion of the material rotating therein for intimate blending and mixing with the material flowing in the opposite direction under the influence of said feed screw.

2,639,465
AUTOMATIC MULTIPLE CAVITY MOLDING WITH DIELECTRIC PREHEAT
James H. Green, West Orange, and William Makenny, Mountain View, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 12, 1949, Serial No. 70,532
21 Claims. (Cl. 18—17)

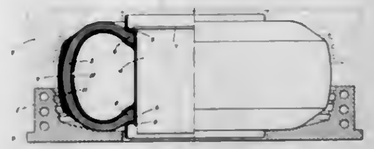
7. Apparatus for molding plastic material comprising a transfer board, rails along which said transfer board is moved so that it may in one position receive a charge of preforms, and in another position be disposed for preheating of said preforms, high-frequency preheating apparatus comprising an upper dielectric heater electrode and a high frequency generator connected

for feeding power thereto, said upper electrode cooperating with a portion of said transfer board which is grounded to dielectrically heat said charge of preforms, a relatively-thick distributing casting with diverging holes forming dispersion tubes and disposed beneath said upper electrode to guide the preforms as they are discharged from the transfer board, and a press feed board formed similar to said transfer board but with preform-receiving apertures more widely spaced to receive said preforms as they are discharged through said distributing casting.



11. Apparatus for molding plastic material comprising a two-part hopper for receiving and distributing preforms thereof, the lower part of said hopper being formed as a funnel, the lower wall portion of which is a plate apertured for feeding said preforms therefrom in accordance with a predetermined pattern, means for vibrating said funnel part independently of the upper part, a relatively thick casting disposed beneath said apertured plate and formed with a series of normally vertical holes providing feed tube means for vertically lining up a series of said preforms in each hole and temporarily storing them prior to discharge therefrom, a horizontally-movable cut-off plate disposed beneath said casting and formed with a series of apertures corresponding in arrangement with the holes in said casting, means for periodically moving said cut-off plate to either allow passage of preforms therethrough from said casting or support preforms thereon, a valve plate underlying said cut-off plate and with a corresponding series of apertures, normally offset from the apertures in said cut-off plate, whereby said preforms when received in apertures in said cut-off plate are normally supported on said valve plate, rails underlying said valve plate, a transfer board movable along said rails so as to in one position periodically receive a charge of preforms through said valve plate, when said cut-off plate slides the received bottom layer of preforms from the said casting and allows them to drop through the apertures in said valve plate into said transfer board, said transfer board comprising a top plate with a series of preform-receiving apertures and a relatively-movable bottom plate, correspondingly apertured but normally disposed so that the apertures therein are offset from those in said top plate, whereby said preforms are supported thereon until relative movement of the bottom plate effects discharge thereof, high-frequency preheating apparatus comprising an upper dielectric heater electrode and an oscillator for feeding power thereto, power means for moving said transfer board, after reception of a charge of preforms therein, from a position beneath said hopper to a position beneath said upper dielectric heater electrode, the lower one of said heater electrodes being formed by the bottom plate of said transfer board, a press feed board formed similar to said transfer board, a relatively thick distributing casting with diverging holes forming dispersion tubes to guide the preforms to said press feed board as they are discharged from the transfer board, a molding press, power means for moving said press feed board when the press is opened to a position between the molding elements thereof and automatically discharging the preforms into the lower molding elements, a discharge chute, means for automatically moving said chute, after the preforms have been pressed to the desired shape in the molds and the upper mold elements raised, to a position beneath said upper mold elements to receive the molded articles after discharge and move them out of the press prior to subsequent closure of said press, and timing mechanism including actuating electrical apparatus for coordinating the operation of said elements.

2,639,466
METHOD OF PLACING A TIRE IN AND REMOVING SAME FROM A MOLD
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California
Application April 21, 1952, Serial No. 283,416
4 Claims. (Cl. 18—48)

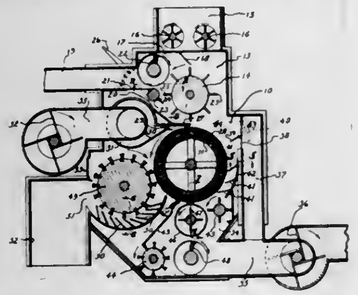


1. The method of manipulating an initially deflated tire for placement of the same into a vulcanizing mold having axially separable annular mold-halves whose diameter is no greater than that of the normal diameter of the tire and one of which is initially clear of the other; the method comprising the steps of axially separating the beads of the tire a predetermined distance so as to deform the tire and reduce the diameter of the same to a size less than that of the matrix halves, moving the tire axially of and into said other matrix half in supported relation thereby while maintaining the beads thus separated, placing said one matrix half onto the tire in supported relation thereby while still maintaining the tire beads separated, and then allowing the beads to move together so as to cause the tire to reassume its normal diameter and shape in fitting relation to the matrix halves and at the same time allowing the matrix halves to come together in closing relation.

2,639,467
BUR EXTRACTOR FOR UNGINNED OR SEED COTTON
Alexander T. Moseley, Dallas, Tex.
Application January 10, 1949, Serial No. 70,038
18 Claims. (Cl. 19—38)

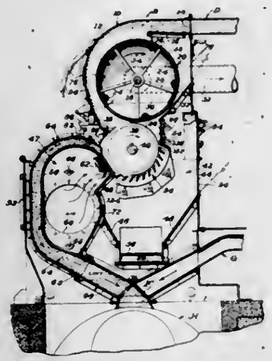
14. A bur extractor including, a housing, a toothed cylinder in the housing, means for delivering cotton to the upper portion of the cylinder, a stripper blade extending longitudinally of the cylinder and overlying and being spaced therefrom, an air nozzle directing a stream of air substantially tangential to the cylinder be-

tween the latter and the stripper blade, a fan supplying air to the nozzle, and a doffing brush



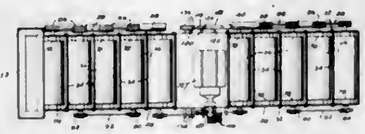
for doffing cotton from the cylinder after it has passed the nozzle.

2,639,468
COTTON CLEANER
John A. Streun, Sherman, Tex., assignor to Hardwicke-Etter Company, Sherman, Tex., a corporation of Texas
Application August 11, 1950, Serial No. 178,883
11 Claims. (Cl. 19—72)



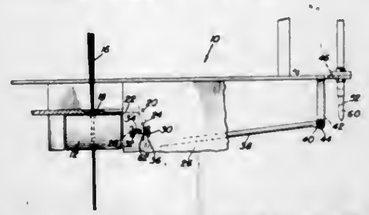
1. A separator for cotton lint carried in an air stream and associated cleaning means for said separated cotton lint comprising a casing having an inlet adapted to deliver the cotton tangentially against the upper portion of an inner surface of a downwardly curving wall of said casing, a foraminous cylinder mounted for rotation in said casing and having its axis of rotation in a substantially horizontal plane, the periphery of said cylinder being spaced from said downwardly curved wall, means associated with the ends of said rotating foraminous cylinder for exhausting the carrier air stream through the walls of said cylinder, a saw cylinder mounted for rotation in a substantially horizontal plane, said saw cylinder being located at the lower end of said downwardly curving wall so as to receive separated cotton thereon and having its periphery spaced from but in substantial contact with the periphery of said foraminous cylinder, trash and mote removing means associated with said saw cylinder, and means for removing said cotton from said saw cylinder after removal of trash and motes therefrom.

2,639,469
PORTABLE COTTON CLEANER
Floyd D. Roan, Lubbock, Tex., assignor of one-half to Thelmer A. Rogers, Lubbock, Tex., and one-half to The Lubbock Machine Company, Inc.
Application June 29, 1950, Serial No. 171,048
3 Claims. (Cl. 19—93)



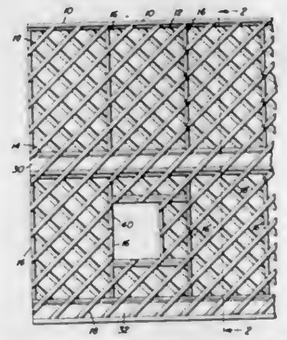
1. In a mobile cotton cleaner of the character set forth, an elongate structure comprising spaced parallel side walls and a front wall, a longitudinal bottom between the lower portions of the side walls, comprising longitudinal bars spaced to provide debris discharging openings, longitudinally spaced rotary beaters supported transversely above the bottom between said side walls, a plurality of elongate fans spaced longitudinally of the structure and rotatably supported between the side walls at the tops thereof to drive air downwardly against the beaters, means for introducing cotton into the structure at the top and adjacent to the front wall, means extending across between the tops of the side walls providing a plurality of arched open end covers each overlying a fan, each of said covers having a portion at each end extending above the top of the adjacent side wall to provide an air entrance opening, and burr removing mechanism supported transversely of the structure at a position midway of the ends of the latter between said side walls and a forward and rear series of beaters.

2,639,470
AUTOMATIC STOP DEVICE FOR CARDING MACHINES
William C. White, Bellflower, Calif., assignor of one-third to N. W. Klopfenstein and one-third to James C. White, both of Bellflower, Calif.
Application July 5, 1950, Serial No. 172,027
5 Claims. (Cl. 19—168)



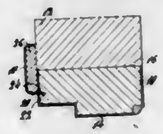
1. An automatic stop device for carding machines comprising a thimble member through which fiber strands are drawn, means urging said thimble member to a first position, the strands urging said thimble member to a second position, a gear drop lever controlling the carding machine, and means operatively connected to said thimble member permitting said gear drop lever to stop the machine when said thimble member is in the first position, said last recited means including a connecting rod pivotally secured at one end to said thimble member, a connecting link pivotally connected to said connecting rod, a pin secured to said connecting link, a round end on said pin, a bracket, a cam member pivotally secured to said bracket, a rounded recess in said cam, said pin extending through said bracket and engaging the rounded recess in said cam member, said gear drop lever being supported by said cam member, said first recited means comprising the weight of said gear drop lever.

2,639,471
WALL CONSTRUCTION, INCLUDING UPPER AND LOWER PANELS AND DIAGONAL STRIPS JOINING THE SAME
Alfred S. Neves, Honolulu, Territory of Hawaii
Application March 21, 1949, Serial No. 82,540
3 Claims. (Cl. 20—1)



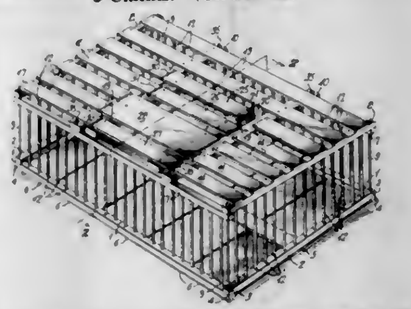
1. A building construction comprising a panel including upper, lower and intermediate horizontally disposed timbers, said timbers being parallel to each other and extending the full width of the panel, said upper timber overlying and resting on said intermediate timber and being wider than said intermediate timber and said lower timber being substantially the same width as said intermediate timber, studs connecting said intermediate and lower timbers, and inner and outer, diagonal, spaced apart sets of strips secured to opposite sides of the studs and to opposite sides of said intermediate and lower timbers, a second panel including an upper timber, joists secured between the lower timber of the first named panel and the upper timber of the second panel retaining the two panels spaced apart, said second panel having studs and diagonal spaced apart strips secured to the studs of said second panel, some of said first-named strips extending from said first mentioned panel and being fixed to the studs of said second panel.

2,639,472
DOOR LINING
Malte Reinhold Jönsson, Astorp, Sweden
Application July 20, 1950, Serial No. 174,817
In Sweden July 15, 1949
3 Claims. (Cl. 20—11)



1. In a wall structure, the combination with a frame member defining a portion of the perimeter of an opening in the wall, of means for masking the joint between said member and the adjoining portion of the wall comprising a plywood cover member of U-shaped channel section having one leg of the channel deeper than the other, the deeper leg of the channel being received and fixed in a cooperating slot extending lengthwise of said frame member in spaced relation to said joint and the shallower leg of said channel bearing in abutting and relatively slidable relation against the face of the adjoining wall structure lengthwise of and in spaced relation to said joint.

2,639,473
HINGED DOOR CHICKEN COOP
Eugene W. Aylor, Brightwood, Va.
Application November 30, 1950, Serial No. 198,301
3 Claims. (Cl. 20—16)

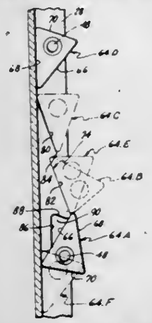


1. In a chicken coop having a door opening defined by spaced parallel frame members and a door including laterally spaced parallel frame members adapted to be positioned when closed between the first mentioned frame members, a pivot rod extending between and supported by the frame members defining the door opening at one end of the door opening, means for supporting the door pivotally and slidably on said rod, spring means continuously biasing the door axially on said rod toward a locking side of the door opening, spaced strips connecting the frame members of the door, spaced strips forming a coop wall and supported at one end on the frame members defining said door opening, at least some of said wall strips projecting into the door opening beyond the locking side thereof, the outermost of said projecting strips overlying the adjacent door frame member when the door is positioned flush with said coop wall to hold the door closed, and the ends of others of said projecting strips being positioned to successively engage the adjacent side of the door frame member throughout its opening and closing arc away from said flush position to maintain said door laterally shifted outwardly of the end of said outermost wall strip against the bias of said spring means.

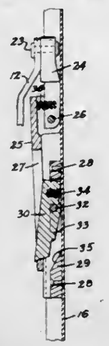
2,639,474
CONTROL MECHANISM FOR AWNING TYPE WINDOWS
Esmond F. Wiley, Oakland, Calif., assignor to Universal Window Co., Berkeley, Calif., a corporation of California
Application August 14, 1950, Serial No. 179,267
3 Claims. (Cl. 20—42)

1. In an awning type window having a control sash and a controlled sash supported to swing between open and closed positions and having means including a vertically slidable travel member to connect the sashes for simultaneous op-

eration, releasable clutch means between the control sash and the travel member to permit independent operation of the control sash comprising, a strike member fixed to the travel member with a stepped surface presenting spaced projections, a shoe slidable on the travel member and passing the strike member upon swinging movement of the control sash, and a tumbler of elongated triangular form supported for pivotal movement on the shoe, the lengths of the sides of the tumblers and the distances between the steps on the strike member being so related to each other as to cause the tumbler to pass over said projections with a comoination of rotating and sliding motions upon initial closing and second opening of the control sash and to enter a driving engagement with a projection on said strike upon the second closing movement of the control sash.

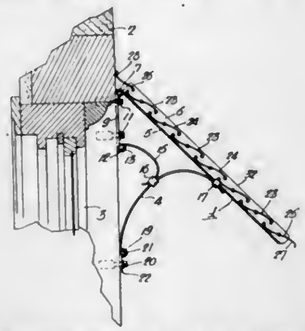


2,639,475
OPERATING MECHANISM FOR MULTIPLE SASH WINDOWS
Esmond F. Wiley, Oakland, Calif., assignor to Universal Window Co., Berkeley, Calif., a corporation of California
Application August 7, 1951, Serial No. 240,618
3 Claims. (Cl. 20—42)



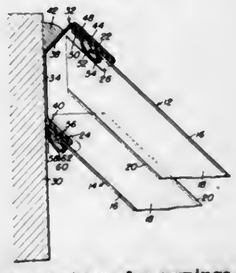
1. In a multiple sash window including a travel bar for connecting the operating mechanism of adjacent sashes, a releasable clutch mechanism between one sash and the travel bar comprising, a latch member carried by the travel bar, a perforate latch plate slidable past the latch member upon manipulation of said one sash, said latch member being supported for limited sliding and rocking movement and having spring means adjacent one end and cam means adjacent its other end to compel it to rock upon sliding movement to present surfaces for engagement and disengagement of the latch plate upon alternate opening and closing cycles of said one sash.

2,639,476
AWNING STRUCTURE
William S. Davis, Philadelphia, Pa.
Application April 5, 1948, Serial No. 19,143
17 Claims. (Cl. 20—57.5)



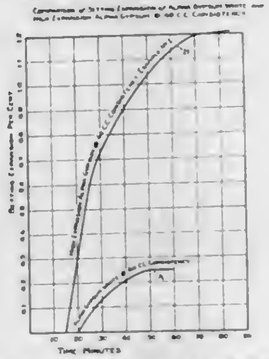
3. The combination with a plurality of elongated support members of T-section having corresponding slots in the vertical webs forming in each a longitudinal series, of a plurality of slat elements established respectively in the corresponding slots of said members and forming with the latter an integral structure, the transverse web of the T being extended at each end of the member beyond the end of the vertical web to provide means for attaching the structure to a suitable foundation, and wherein one of the extended ends of the transverse web being longer than the other end so as to constitute a strut for supporting the structure in an inclined position against an upright wall surface.

2,639,477
RESILIENT FASTENER FOR RIGID VENTILATED AWNINGS
Dewey J. Freeman, Houma, La., assignor of eighty-five per cent to Lionel Babin and fifteen per cent to Dudley Melancon, both of Houma, La.
Original application June 13, 1946, Serial No. 676,457. Divided and this application November 24, 1950, Serial No. 197,426
11 Claims. (Cl. 20—57.5)



1. A resilient fastener for awnings of the type having upper and lower sets of panels, comprising a horizontally disposed support member having inclined top and bottom surfaces and inclined top and bottom walls therebetween, resilient clips within said support member between said top and bottom surfaces for securing each of said upper and lower sets of panels to the lower surface of one of said walls.

2,639,478
PROCESS OF PREPARING PATTERNS
Brainard W. Nies, Crystal Lake, and Edward W. Duffy, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application December 16, 1949, Serial No. 133,422
4 Claims. (Cl. 22—195)



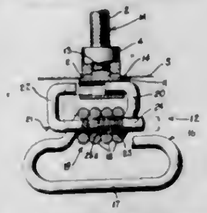
1. The process of casting a substantially dimensionally accurate reproduction of an object from a hardenable fluid material which shrinks upon hardening, comprising forming a mold having a casting cavity conforming to the shape of the object to be reproduced, pouring an aqueous slurry of a calcined gypsum plaster having a setting expansion of at least about 0.65% into said cavity, permitting said plaster to expand upon setting to form a pattern, forming a mold from said pattern, and casting a hardenable fluid in said mold, the increase in size of said pattern over said object being substantially the same as the shrinkage of said fluid during hardening.

2,639,479
ADHESIVE TIE SEAL
Carl S. Dahm, Keyport, N. J.
Application December 20, 1949, Serial No. 133,971
2 Claims. (Cl. 24—16)



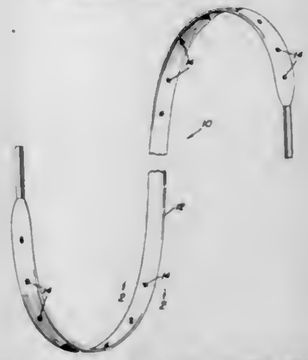
1. A device of the class described adapted to be secured to a supporting member and having means for securing the ends of a flexible strip material in relation to the supporting member comprising, a base portion and a top portion disposed to have the top portion disposed in superimposed relation to the base portion, said base and top portions each having a pressure sensitive adhesive material disposed on at least one side thereof, and a removable cover material therefor attached by the pressure sensitive adhesive, at least one of said portions having a slot formed therein, said slot being conformed to facilitate disposal of a strip material in said slot to permit said material to rest in a flat position between said base and top portions when they are in superimposed relations.

2,639,480
STRAP CONNECTOR
Philip Magid, Brooklyn, N. Y.
Application June 13, 1949, Serial No. 98,681
7 Claims. (Cl. 24—73)



1. A fastening device for pivotally attaching a gun sling to a tubular member mounted on a gun, said fastening device comprising a long and a short cylindrical metal rod bent into desired shapes, said long rod being bent to form an outer loop of a size to retain a gun-sling, an intermediate bearing, and an inner fixed mounting arm having a free end shaped to fit rotatably a substantial distance within said tubular member, said bearing being formed of a series of parallel spiral convolutions of said long rod, the inner surface of said spiral convolutions forming a through-and-through bore extending centrally and longitudinally through said bearing and having a diameter sufficient to house said short rod, said short rod having a terminal straight portion of sufficient length to fit through the bore of said bearing, the other end of said rod being bent upwardly and inwardly to reach and extend a substantial distance within one end of the tubular member when the fixed mounting arm is inserted within said member, and the straight end of said short rod is inserted through the bore of said bearing, and a compression spring within said bore arranged to urge the free end of straight end of said short rod exteriorly of said bearing.

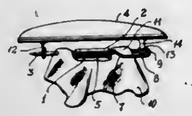
2,639,481
SHOELACE
George C. Lester, Tulsa, Okla.
Application July 18, 1951, Serial No. 237,357
1 Claim. (Cl. 24—143)



A shoe lace having a plain intermediate portion adapted to be threaded through eyelets of a

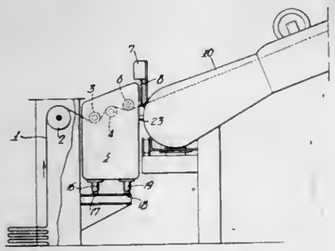
shoe and a pair of end portions adapted to be tied together in a bow, and a plurality of protuberances provided at longitudinally spaced points on each of said end portions to resist untying, each of said protuberances consisting of a single individual length of thread passing successively and repeatedly through a pair of transversely spaced apertures formed in the shoe lace and having its ends tied together.

2,639,482
SAFETY BROOCH-FASTENING DEVICE
Augusto Enrique Hestermann, Malaver, Argentina
Application November 14, 1952, Serial No. 320,460
10 Claims. (Cl. 24—155)



1. Safety brooch-fastening device, comprising a tubular member for receiving the usual pin of a brooch, a longitudinal sheet attached to said tubular member for removably connecting the latter to a fixed part of said brooch, and catch means provided in connection with said longitudinal sheet for engaging said fixed part of the brooch and for preventing said tubular member from disengaging the brooch pin.

2,639,483
DEVICE FOR GUIDING WEBLIKE MATERIAL
Karl Gösta Wester, Stockholm, Sweden, assignor to A B Svenska Fläktfabriken, Stockholm, Sweden
Application October 23, 1950, Serial No. 191,514
In Sweden October 21, 1949
3 Claims. (Cl. 26—54)



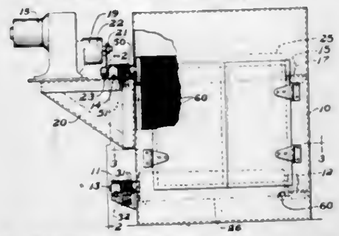
1. In apparatus for guiding web-like material comprising, a pair of feed arms pivotally mounted for independent lateral movement, a support carriage mounted endwise adjacent each feed arm for movement in opposite directions transversely of the direction of travel of the material, straightening means for the edges of the material comprising groups of drive rolls mounted on each of said support carriages and arranged to engage the adjacent edge portion of said material, and a loose connection between each of said feed arms and adjacent support carriages providing limited freedom of lateral movement of each feed arm relative to said adjacent support carriage so that lateral movement of the feed arms within the limits of said loose connections is not imparted to the adjacent support.

2,639,484
EMBALMING INSTRUMENT
George H. Wartman, Ashland, Wis.
Application May 12, 1949, Serial No. 92,821
6 Claims. (Cl. 27—24)



1. The combination with a trocar having perforations through which suction applied to the trocar draws fluids from a body, of an outer tube encircling the trocar, means on the outer end of said tube engaging the trocar to support the tube concentrically of the trocar, means on the other end of the tube engaging the trocar and closing the end of the tube thereagainst, said means together supporting the tube on the trocar, spacing it therefrom, and enabling it to move relatively to the trocar to position the perforations therein within the tube so that said suction will draw air through the tube, perforations and trocar to clear the trocar of obstructing material while maintaining the trocar in the body.

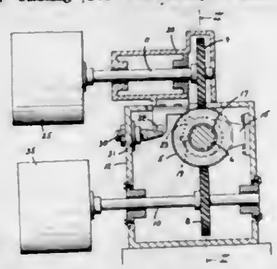
2,639,485
INDUSTRIAL CORD TREATING APPARATUS
Robert R. Ambler, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 29, 1949, Serial No. 102,121
8 Claims. (Cl. 28—62)



8. Apparatus for progressively controlling the tension on industrial cord in conjunction with a heat treatment of the cord, said apparatus comprising a pair of parallel shafts, means fixed to said shafts and rotatable therewith having circumferential guiding grooves for cord at spaced-apart intervals therealong, said guiding grooves being of progressively decreasing diameter from one end of a shaft to another and the grooves of one shaft decreasing in the same direction as the grooves of the other, and means for driving one of said shafts to feed a cord about said shafts in a plurality of convolutions about both shafts from the larger grooves to the smaller grooves thereof, one of said means fixed to a shaft comprising a plurality of adjustable staves at the grooved surface, and means for adjusting said staves to change the ratio of decreasing diameter of the grooves.

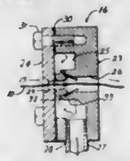
2,639,486
ADJUSTABLE THREAD ADVANCING ROLL
Henry J. McDermott, Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 17, 1948, Serial No. 15,287
7 Claims. (Cl. 28—71.5)

1. An apparatus for handling filamentary materials comprising two substantially similar rotors and supporting shafts therefor having axes substantially within a plane, a power shaft perpendicularly intersecting the plane midway between the two rotor shafts, a gear fixed on the power shaft, gears fixed on each of the rotor shafts meshing with the gear on the power shaft, a casing for rotatably supporting the



power shaft and one of the rotor shafts, another casing for supporting the other rotor shaft pivotably supported within the first-named casing and pivotable about the power shaft axis, an adjustable means mounted on the first-named casing for rotating the other casing about its pivot.

2,639,487
AIR BLOWER FOR LINEARLY FEEDING A CONTINUOUS STRAND
William B. Kelley, Pawtucket, R. I., assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application August 30, 1951, Serial No. 244,405
3 Claims. (Cl. 28—71.5)

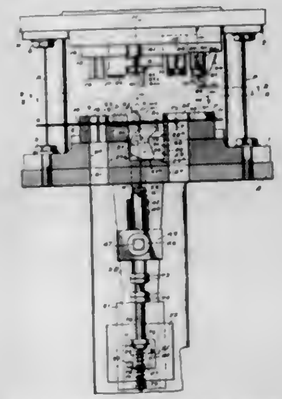


1. An air blower for linearly feeding a continuous strand comprising, in combination, a body having an axial bore and a radially spaced annular groove cut in said body concentric with said bore, a centrally bored cover for such annular groove, secured to said body and forming with such groove an annular space in communication with a source of air under pressure, the bore in said cover being axially aligned with the bore in said body, said body having a generally sleeve-like portion surrounding said axial bore, there being a plurality of circumferentially spaced, inclined orifices in said portion communicating between said annular space and said axial bore for delivering radially balanced jets of air into said axial bore for feeding a strand therethrough.

2,639,488
PROCESS FOR PRODUCING A TEXTILE FABRIC
William Ewart Stanley and Fred Carter Brown, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain
No Drawing. Application August 30, 1950, Serial No. 182,428. In Great Britain September 15, 1949
7 Claims. (Cl. 28—76)

1. A process for producing an ornamental knit fabric, which comprises subjecting to a hot aqueous treatment of warp knitted fabric of which the yarns knitted together comprise alternate groups of yarns of filaments having a basis of a material selected from the group consisting of a cellulose ester of a carboxylic acid and a cellulose ether, and yarns of filaments of oriented synthetic linear polymer.

2,639,489
APPARATUS FOR MAKING BUCKLES
Everyl M. Torbert, Freeland, Md., assignor to Samuel Greenberg and Milton Kolker, a co-partnership doing business as Buckle-Craft Co., Baltimore, Md.
Application January 28, 1948, Serial No. 4,850
1 Claim. (Cl. 29—3)

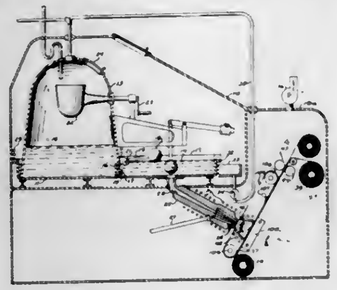


In an apparatus for forming a buckle tongue from wire stock, and for applying the formed tongue to a buckle body having a pair of openings therein separated by a bar, the combination of a fixed bed; a ram reciprocable relative to said bed; means on said bed and actuated by said ram for so feeding the stock through said bed that its upper end is introduced through one of the openings of the body on said bed; a block on said bed; an anvil formed on said block; a rocker head pivoted on said block for swinging movement toward and from said anvil; a hammer formed on said rocker head, said anvil and hammer being so disposed that said stock is fed therebetween; means connecting said ram and said rocker head for swinging said rocker head by reciprocation of said ram, said anvil and said hammer having co-acting parts whereby when said ram swings said rocker head toward said anvil a precisely measured portion is severed from said stock and formed into the tongue, its upper end being the end of the stock introduced through said opening; and a head on said ram for engaging said end to bend said end downwardly through the other of said openings to attach the tongue to the bar.

2,639,490
FORMATION OF METAL STRIP UNDER CONTROLLED PRESSURES
Joseph B. Brennan, Cleveland, Ohio
Application August 12, 1948, Serial No. 43,881
8 Claims. (Cl. 29—18)

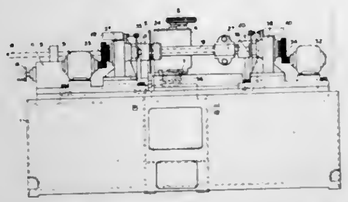
1. That method of depositing metal comprising the steps of liquefying a metal, applying a constant pressure to the metal, and spraying the

metal under pressure into a reduced pressure atmosphere to aid in vaporization and atomiza-



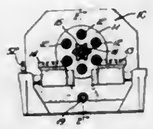
tion of the sprayed metal while it is projected in a desired direction.

2,639,491
TRANSFER MACHINE
Howard E. Rose, Peninsula, and Edwin R. Motch, Jr., and David S. Baus, Cleveland, Ohio, assignors to The Motch & Merryweather Machinery Co., Cleveland, Ohio, a corporation of Ohio
Application January 10, 1947, Serial No. 721,442
4 Claims. (Cl. 29—33)



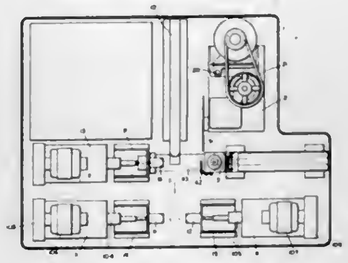
1. In a cut-off and multiple operation machine, an automatic sawing machine, means automatically operative intermittently to feed a continuous length of stock into position to be cut off by the saw of such machine, means automatically operative to clamp such stock during the sawing operation, two chamfering heads spaced laterally from said clamping means and relatively axially spaced to receive a cut-off section of stock therebetween, a longitudinal member pivotally mounted midway of its length about an axis parallel to such stock with its respective ends thereby oscillatable through arcs of 180° between said clamping means and said chamfering heads, air collets on the respective ends of said member adapted to receive and hold the work during the sawing and chamfering operations, and rack and pinion means operative in timed relation to the operation of said feed means to swing said member to transfer a cut-off section of such stock from such sawing machine to chamfering position between said chamfering heads and to return a cut-off and chamfered section from between said chamfering heads to original cut-off position at such sawing machine prior to further feeding of such continuous length of stock, whereby such cut-off and chamfered section will be expelled from the collet holding the same by subsequent further feeding of such continuous length of stock.

2,639,492
MACHINE TOOL
John J. Barry, Evanston, Ill., and William B. Retz, Plainville, Conn., assignors to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application October 3, 1947, Serial No. 777,798
4 Claims. (Cl. 29—37)



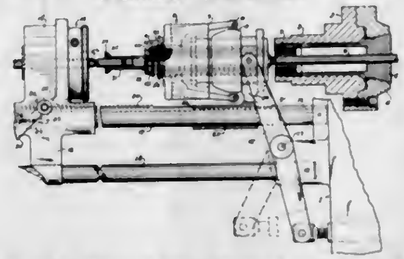
1. In a multiple-spindle machine of the character indicated, a spindle carrier, a camshaft and means for driving the same, tool-slide means including feed means driven by said camshaft, a tubular member concentric with said camshaft and rotatable with respect thereto, indexing means for said spindle carrier including a member locked to said tubular member, raising means for said spindle carrier including a member locked to said tubular member, locking means for said spindle carrier including a member locked to said tubular member, and clutch means between said camshaft and one of the members locked to said tubular member.

2,639,493
TRANSFER MACHINE
Howard E. Rose, Peninsula, and Merritt B. Sampson, Lakewood, Ohio, assignors to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio
Application March 12, 1948, Serial No. 14,404
15 Claims. (Cl. 29—51)



15. In combination with cut-off means, work-piece transfer means operative at the cut-off station securely to clamp a work-piece during cutting off of the latter from a length of stock by said cut-off means, means operative to reciprocate said transfer means laterally in a substantially straight line to transfer the cut-off work-piece to a second work station and to return said transfer means to such cut-off station to clamp a further section of such stock for cutting off, and feed means operative to advance a further section of such stock past said cut-off means into position for cutting off during such reciprocation of said transfer means, said transfer means being shaped to avoid mechanical interference with such newly fed section of stock during such reciprocation.

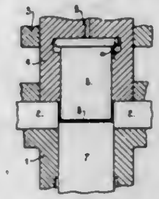
2,639,494
MACHINE TOOL
Walter Belshaw, Seattle, Wash., assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application March 16, 1948, Serial No. 15,142
2 Claims. (Cl. 29—59)



1. In a machine tool having a hollow spindle, a chuck carried by the forward end of said spindle adapted to grip bar stock fed through said spindle, a means for actuating said chuck to and from stock gripping positions, and a bar stock feeding mechanism spaced rearwardly from said spindle and actuated in timed relationship with actuation of said chuck in a manner such that bar stock is successively fed through said chuck and gripped thereby, the improvement which comprises a plurality of liner tubes telescopically arranged and axially slideable within each other and within said spindle, the number and diameters of said tubes being such that the inner tube guides and supports stock of relatively small diameter without material whipping and sequential removal of each tube renders the next succeeding tube effective to support and guide stock of larger diameter than that supported in the removed tube, the said tubes each having a portion extending exteriorly of said spindle at the rear end thereof with the several said portions extending different distances so that one or more of the said portions may be readily grasped and the corresponding tube or tubes partially withdrawn rearwardly from the bore of said spindle to thereby provide a support for bar stock both interiorly and exteriorly of said spindle, the inner of the partially withdrawn liner tubes being adapted to be sleeved over the adjacent ends of separate pieces of bar stock, respectively supported in said chuck and said feeding mechanism, so that the said separate pieces of stock are supported in axial alignment with the liner tube which has been partially withdrawn from the rear of said spindle the greatest distance being positioned for engagement by the said bar feeding mechanism as the latter feeds the stock forwardly to thereby progressively return the extended liner tubes inwardly of the spindle simultaneously with the continued feeding of the stock so that the adjacent ends of separate pieces of bar stock are continuously supported and aligned as they move towards and into said spindle.

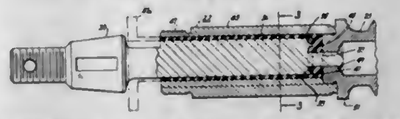
2,639,495
METHOD FOR PRODUCING A SHARPLY BENT CORNER IN A PLATE
Berend J. Voslamber, Hoogkerk, Netherlands, assignor to N. V. Betonfabriek "De Meteoor," De Steeg, Netherlands, a company of the Netherlands
Application July 16, 1948, Serial No. 39,074
In the Netherlands July 28, 1947
3 Claims. (Cl. 29—148)

1. A method of producing a sharply bent flange in a metal plate comprising bending to a rounded edge a flat portion of said plate in flanged relation to the base portion of said plate, clamping said base portion to prevent internal displacement of the material thereof, clamping said flanged portion to prevent dimensional change



in the inner face surface of said base portion and to prevent lengthening of said flanged portion, and then while maintaining said clamping actions on said base and flanged portions, applying an upsetting force in the plane of said flange and rounded edge to produce an angular corner.

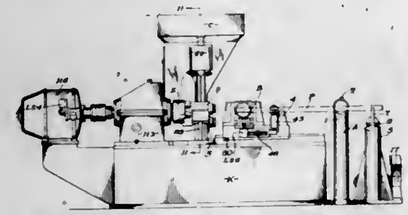
2,639,496
METHOD OF MAKING SHOCK ABSORBING CONNECTIONS
Herman L. Hartzell, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application March 14, 1945, Serial No. 582,761. Divided and this application February 17, 1949, Serial No. 77,001
1 Claim. (Cl. 29—148)



A method of making a shock absorbing connection between a splined shaft including a longitudinal extension at one end thereof of reduced diameter to provide a shoulder and a splined sleeve having a closed end provided with an opening of slightly larger diameter than the extension of the shaft, the sleeve having a greater internal diameter than the outer diameter of the shaft to provide a space therebetween when the two parts are in assembled position comprising the steps which include, forming a flanged cup-shaped rubber like boot having an apertured end wall with a bead extending around the aperture and wherein the wall thickness of the boot is greater than the space between the shaft and sleeve and is formed to fit over the shaft in close association thereto, assembling the boot to the shaft so that the apertured end seals against the end of the shaft and around the longitudinal extension, stretching the boot longitudinally on the shaft by pressure exerted against the flange portion only thereof for reducing the thickness of the boot to a dimension less than the space between the shaft and the sleeve; inserting the shaft with the stretched boot thereon within the sleeve so that the reduced extension of the shaft extends through the aperture in the closed end of the sleeve; releasing the flange to permit the rubber boot to expand to fill resiliently and completely the space between the shaft and the sleeve whereby a shock absorbing layer of resilient material is present between the shaft and the sleeve and between the shoulder and the closed end of the sleeve; riveting the extension of the shaft loosely over the sleeve after assembly thereof for further compressing the boot and for compressing the

bead thereby preventing displacement of the shaft from the sleeve while permitting slight relative angular and longitudinal movement between the shaft and the sleeve for shock absorbing purposes; and finally removing the flange.

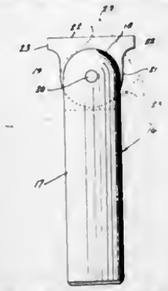
2,639,497
COUPLING SCREW-ON MACHINE
John W. Stouffer, Youngstown, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application April 24, 1948, Serial No. 23,042
8 Claims. (Cl. 29—240)



1. A machine for screwing couplings onto pipes which comprises an endwise movable carriage, a chuck body projecting beyond the opposite sides of the carriage, jaws in said body for gripping a pipe, means to advance the jaws to clamp them about a pipe, means to retract the jaws to release a pipe gripped thereby, trunnions rotatably supported by said carriage and connected to opposite sides of said body for limited rotation of said body about an axis extending longitudinally of said carriage, means to advance and retract said carriage, and a pipe gripped by said jaws, a coupling chuck to grip and rotate a coupling when moved endwise thereinto, means between said chucks to position a coupling in axial alignment with said pipe for engagement with the leading end of the advancing pipe and for endwise movement thereby into said coupling chuck, driving means for rotating the coupling chuck and for rotating said pipe chuck when the resistance to rotation of the coupling relative to the pipe exceeds a predetermined amount, means including an arm pivotally connected to the projection of said body beyond one side of said carriage for resilient opposing rotation of said body from its normal position and for restoring it to such normal position, and means carried by the other projection of said body and engageable with a switch for releasing a coupling in the coupling chuck and actuating said jaw releasing means and said carriage retracting means.

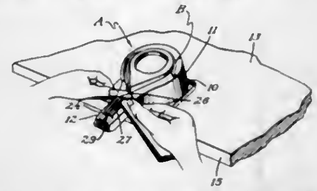
2,639,498
BEARING INSERT REMOVING AND APPLYING TOOL
Lester D. Rookstool, Glenrock, Wyo.
Application October 22, 1948, Serial No. 56,007
2 Claims. (Cl. 29—270)

1. In a tool for use in removing and replacing semicylindrical bearing inserts surrounding shafts having generally radially oil holes disposed at different angles to the axes of the shafts and the bearing inserts, a shank adapter adapted to be inserted in a shaft oil hole, said shank having an inner end adapted to enter the oil hole and an outer end portion, said outer end portion terminating in an outer end, said outer end being formed with a transverse slot opening through opposite sides of the shank and extending through said outer end, a pivot pin on said outer end portion and extending across the slot, and a self-aligning head comprising a flat plate having an inner end portion positioned within



said slot and pivotally mounted on said pivot pin and an outer end portion projecting outwardly beyond the outer end of the shank for engagement with one end of a semicylindrical bearing insert.

2,639,499
GARMENT HANGER HOOK ATTACHING DEVICE
John H. Myers, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application May 25, 1949, Serial No. 95,353
2 Claims. (Cl. 29—284)

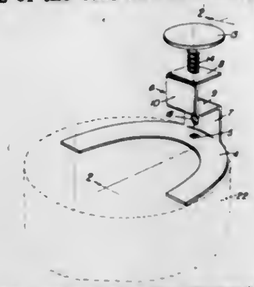


1. An anvil for supporting hooks designed for attachment to garment hangers, the anvil including a base, a body extending upwardly from the base, an arm integral with the body and projecting to one side of the base, a substantially flat upper surface on said body and arm, a projection extending upwardly from said flat surface and including an arcuate projection having a pointed extension thereupon, said arcuate projection having tapered walls thereupon, a shoulder projecting upwardly from said flat surface in spaced relation to said pointed projection, said shoulder being spaced from said pointed projection to permit a portion of the hook to be inserted therebetween, a shoulder near the extremity of said arm projecting upwardly from said flat surface, said last named shoulder being designed for engagement with an end of the hook, and an elongated recess in said flat surface between said pointed projection and said last named shoulder, said recess being of sufficient depth so that the hook can be deformed into the recess when the hanger portion is assembled therewith.

2,639,500
CAN PUNCH
Frank E. Gillespie, Jr., Jamaica Plain, Mass.
Application November 16, 1950, Serial No. 196,019
1 Claim. (Cl. 30—16)

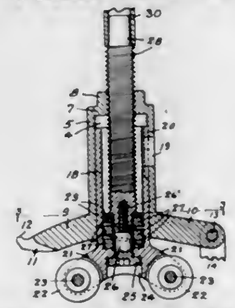
A can punch comprising a flat half-ring base adapted for resting on top of a can adjacent the

edge of the can, said base having end portions positioned substantially at diametrically opposite side edges of the can top and adapted to be held on the can by the hand of a person placed transversely on top of the end portions of the base and on the can, a strap metal guide rising from the base at a point substantially midway between the ends of the base and including a leg, upper



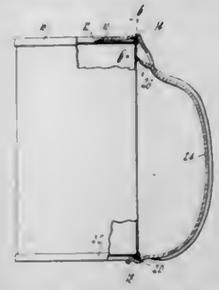
and lower horizontal arms supported by the leg and a vertical web rigidly connecting the arms to each other, said base having a pilot opening under the lowermost horizontal arm and said arms having openings aligned with the pilot opening of the base, a can piercing plunger slidable in said openings, and spring means holding the plunger in a raised position with its lower end shielded under the lower arm.

2,639,501
PIPE CUTTER
Elmer C. Harding, Seattle, Wash., assignor to Spring Load Pipe Cutter Mfg. Corp., Seattle, Wash., a corporation of Washington
Application December 5, 1947, Serial No. 789,967
4 Claims. (Cl. 30—102)



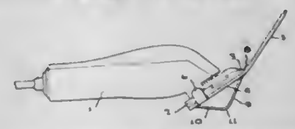
1. A pipe cutter for cutting cast iron pipe comprising a main frame; a cutter carrying member slidably supported by and longitudinally movable relative to said main frame and having two spaced apart aligned circular cutter members rotatively mounted thereon; a handle threaded into said main frame and having a shoulder adjacent its inner end; a compression spring interposed between said shoulder and said cutter carrying member; axially positioned bolt means connecting said cutter carrying member with said handle and holding said spring under compression, said cutter carrying member being slidable on said bolt means, whereby longitudinal movement of said cutter carrying member relative to said handle is provided; and pipe engaging means positioned in opposed relation to said cutter members and connected with said main frame.

2,639,502
COMBINED CAN OPENER AND HANDLE
Frederick W. Wormelle, Jr., Falmouth, Mass.
Application April 14, 1950, Serial No. 155,853
1 Claim. (Cl. 30—123)



A combined can opener and handle comprising a strip of stiffly resilient material having a pointed end portion adapted to pierce the head of a can and a fulcrum tongue projecting therefrom to engage under the bead of a can, said strip having an arcuate transverse groove between said pointed end and said tongue and a second arcuate transverse groove near the other end of the strip, said grooves being mutually opposite and spaced apart to receive and grip portions of the rims at the two ends of a can, each said groove having at each end thereof an upstanding edge extending across the groove and tending to dig into the rim received by the groove.

2,639,503
GUIDE ATTACHMENT FOR HAIR CLIPPERS
George E. Thurston, Chicago, Ill.
Application July 13, 1951, Serial No. 236,570
1 Claim. (Cl. 30—200)



A combined comb and guide attachment for a hair clipper having a cutting head provided with a cutting portion along one edge, comprising a plane main body proportioned to lie flat against the under side of the cutting head of said hair clipper; means at opposite sides of said main body frictionally engageable with said cutting head to retain the main body in fixed relationship to said cutting head with the front edge of the main body substantially in registration with said cutting portion; a forward extension integrally formed upon the front edge of said main body, said forward extension being formed with a plurality of elongated, parallel teeth, the forward extension being disposed at a wide obtuse angle to the main body; and a guide member rigidly attached to and underlying said main body, said guide member being of angular cross-section, and having front and rear guide portions disposed at an obtuse angle to one another, said front and rear portions being respectively disposed at acute angles to the main body, the front guide portion being related at a wide obtuse angle to said forward extension, said last-named angle facing outwardly from the under side of the main body and said front edge of the

body being disposed at the apex of the last-named angle, to locate the cutting portion of the head a predetermined distance from a scalp when those ends of the front guide portion and of the extension disposed at the outer ends of the legs of the last-named obtuse angle are placed in contact with the scalp, the front and rear guide portions being integrally joined below the main body and forming a fulcrum portion spaced below the main body and on which the cutting head is rockable to selected positions of adjustment relative to a scalp on which supported.

2,639,504
BARBER SHEARS
Andrew J. May, Longview, Wash.
Application April 28, 1950, Serial No. 158,734
4 Claims. (Cl. 30—260)



1. A barber shears comprising opposed cutter blades connected together pivotally at one of their ends, one of said cutter blades being flexibly thin throughout its cutting area and having a plane working face disposed substantially parallel to the cutting plane of said shears, said blade having a reinforcing rib extending longitudinally thereof adjacent the edge opposite the cutting edge, said rib projecting laterally across said cutting plane in the direction of said second cutter blade, the plane working face being adapted to abut against a comb during barbering to effect cutting of the hair uniformly across the comb.

2,639,505
KNIFE FOR CARVING LEATHER AND THE LIKE
Ralph E. Reynolds, Redelm, S. Dak.
Application March 4, 1952, Serial No. 274,693
2 Claims. (Cl. 30—317)



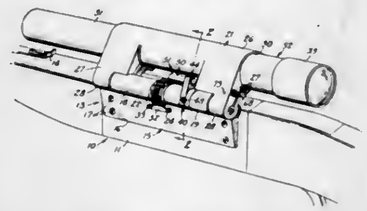
2. A knife of the swiveled blade type for carving leather and like materials, comprising: a handle including a pair of complementary, handle sections each of which is formed with a single opening intermediate its ends; a bolt extending through said openings and connecting the handle sections together, said sections having flat, contacting, inner surfaces formed with grooves extending longitudinally of the sections and facing one another to provide a longitudinal bore in the handle, said inner surfaces having hemispherical recesses communicating with the grooves and facing one another to form a spherical cavity in the handle; and a blade swivelly mounted on the handle, said blade including a shank extending through and rotatable in said bore, one end of the shank projecting beyond one end of the sections, a lateral extension formed upon said projecting end of the shank and provided with a cutting edge, and a ball formed on the shank and rotatable in said cavity to provide means effective to hold the shank against withdrawal from the bore, said shank holding the sections against relative pivotal movement about the axis of said bolt.

2,639,506
CURVE PEN ADAPTER
George Lory, Los Angeles, Calif.
Application December 24, 1947, Serial No. 793,583
6 Claims. (Cl. 33—41)



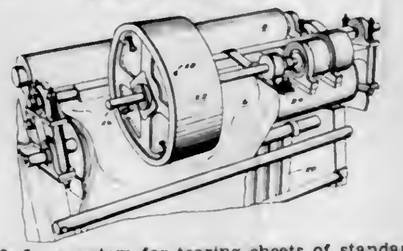
1. An adapter for converting a straight-bladed ruling pen into a curve pen comprising a hinge having an upper and a lower member, said hinge members pivotally mounted with respect to each other to assume angles with respect to each other, an axial threaded bore starting at the end of said lower hinge member and extending a substantial distance therein, said threaded bore proportioned to receive the threaded end portion of the blade of a ruling pen, a shaft extending axially from the end of said upper hinge member and integrally attached thereto the upper end of said shaft provided with threads, a cap nut on the end of said shaft and provided with threads extending a substantial distance therein to engage with the threaded portion of said shaft, a sleeve member provided with an axial bore proportioned to permit said shaft to turn freely in said sleeve member, said sleeve member sufficiently long to extend between the end of said upper hinge member and said cap nut.

2,639,507
LATCH MEANS FOR TELESCOPIC GUN SIGHTS
Frank A. Pachmayr, Culver City, Calif.
Application December 19, 1949, Serial No. 133,735
16 Claims. (Cl. 33—50)



1. In a mount for a telescopic sight, the combination of: a base for attachment to a gun; a carriage for said telescopic sight pivotally mounted upon said base for rotation between a first, operative position and a second, inoperative position; and rotatably adjustable latch means for retaining said carriage in said first, operative position, said latch means being infinitely adjustable to permit said carriage to be oriented in any chosen first position.

2,639,508
SHEET MARKING AND MEASURING APPARATUS
Arthur H. Bates, Jr., Dalton, Ga., and Ned Bobo, Charles F. Mullinax, and Wistar W. Macomson, Lyman, S. C., assignors to Pacific Mills, a corporation of Massachusetts
Application August 11, 1950, Serial No. 178,861
2 Claims. (Cl. 33—129)



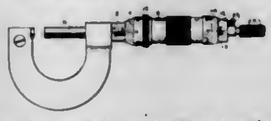
2. In a system for tearing sheets of standard length from the web of sheeting material wherein said web is drawn across a table for the successive tearing of sheets therefrom, a marking wheel mounted for rotation, a pressure roll rotatably disposed in opposed relation to said marking wheel to form a nip therewith whereby travel of said web of sheeting material through said nip as said web is advanced to said table results in rotation of said marking wheel, marking tips projecting radially from the periphery of said marking wheel at regular spacings equal to the greatest common factor of the standard sheet lengths to be torn from said web of sheeting material whereby said web of sheeting material is embossed with a non-staining removable mark at regular intervals corresponding to the spacing of said marking tips, and means for gauging the standard length of sheet to be torn in relation to a reference point at which the closest mark embossed in said web of sheeting material may be identified for tearing of the standard length of sheet desired.

2,639,509
DEVICE FOR MEASURING WORKPIECES SUCH AS SCREW THREADS AND THE LIKE
Wilhelm Rinker, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application June 2, 1950, Serial No. 165,678
In Germany August 13, 1949
6 Claims. (Cl. 33—143)



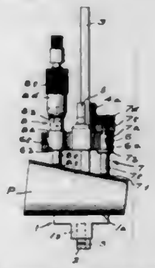
1. In combination with a device for measuring work pieces, such as screw threads and the like, by means of measuring wires positioned between a measuring base and a measuring head spaced from the base in a vertical direction: a gimbal joint mounted between the measuring base and the measuring head and axially offset therefrom, said gimbal joint consisting of a normally horizontal interior ring and a normally horizontal exterior ring mounted on the interior ring, support means for the work piece attached to said exterior ring and adapted to locate the work piece between the measuring base and the measuring head, an arm atached to the exterior ring substantially oppositely to the work piece support means, and a weight slidably mounted on said arm and adapted to counterbalance the weight of the work piece.

2,639,510
MICROMETER
Frederick M. Laserson, Los Angeles, Calif.
Application July 11, 1952, Serial No. 298,285
3 Claims. (Cl. 33—164)



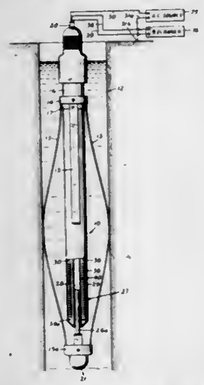
1. In a micrometer, including a spindle, a micrometer-screw and a cooperating barrel: a thimble engaged by threads with the micrometer-screw; graduations at one end of the said thimble cooperating with graduations on the barrel, and graduations on the other end of the thimble cooperating with graduations on an extension of the micrometer-screw; means for optionally engaging the thimble with the barrel in order to resist relative movement; and means for optionally engaging the micrometer-screw with the thimble to provide integral movement of the micrometer-screw and the thimble.

2,639,511
TAPER GAUGE
Benton A. Whiteman, Glen Allen, Va.
Application June 13, 1949, Serial No. 98,840
3 Claims. (Cl. 33—174)



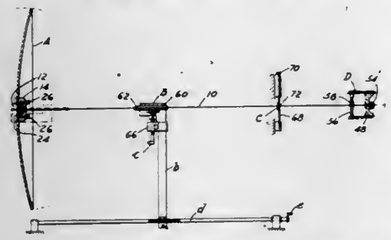
1. In a taper gauge, the combination of a base having a rectilinear edge; a post mounted on said base; a bar slidably mounted on said post for adjustment relative said base; a spindle threaded in said bar for adjustment relative said bar; and a micrometer mounted on said bar and having a measuring stem adjustable relative to said bar, the longitudinal axes of said spindle and said stem being parallel, normal to said edge, and relatively spaced a fixed distance, said spindle and said stem having outer ends, respectively, extending away from said edge.

2,639,512
DRILL HOLE GAUGE
Jean C. Legrand, Houston, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application September 26, 1947, Serial No. 776,282
2 Claims. (Cl. 33—178)



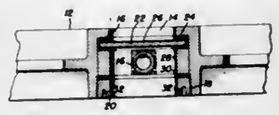
1. Apparatus for gauging a bore hole drilled into the earth comprising a support adapted to be moved through a bore hole, a wall-engaging cage formed of arched springs secured at the opposite ends to afford a pair of junctions adapted to be spaced apart longitudinally of the bore hole and mounted for movement with respect to said support longitudinally of the bore hole, stop means restricting longitudinal movement of said cage with respect to said support within predetermined limits, an indicating circuit including inductance means fixedly mounted with respect to said support, inductance modifying plunger means disposed in inductance-modifying relationship with said inductance means and movable with one of said junctions, said plunger means being responsive to the displacement of one end of said cage in accordance with variations in bore hole size for changing the influence of the inductance means on said circuit, and means for providing indications of changes produced by said inductance means in said indicating circuit.

2,639,513
MEANS FOR OPTICALLY ALIGNING MOTION-PICTURE PROJECTORS
Willard C. Ricord, Sr., Los Angeles, Calif.
Application February 21, 1950, Serial No. 145,441
6 Claims. (Cl. 33—180)



1. Means for effecting perfect optical alignment of the light projecting components such as the lens component and film aperture component of a motion picture projector having as its light source a fixed carbon electrode and a relatively movable carbon electrode, the fixed electrode being normally supported axially in an opening in the center of the light reflector and the movable electrode in an adjustable holder and in line with the fixed electrode, said means comprising a flexible sighting strand element stretched axially from the center of the opening in the reflector to the center of the carrier for the lens components, said element passing through the electrode opening in the holder from which the electrode has been removed and from thence through the film aperture component, a mounting for one end of said element removably secured in the said opening in the reflector from which the fixed electrode has been removed, said mounting including a universal self centering unit with which the said one end of said element is coupled, and a gripping means for the other end of said element removably centered in the lens carrier from which the lens components have been removed, the accuracy of alignment of said components being indicated when the element is observed to pass through the exact centers of the reflector and holder openings and the film aperture.

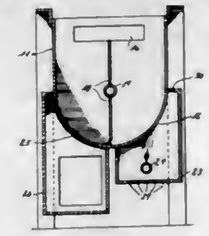
2,639,514
SPIRIT LEVEL WITH REFLECTING MEANS
Walling Garrison, Washington, D. C.
Application December 26, 1951, Serial No. 263,186
1 Claim. (Cl. 33—211)



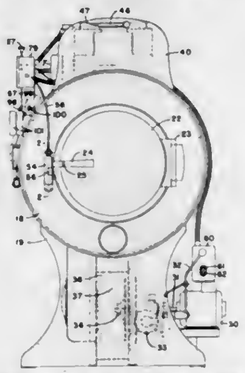
In a spirit level, the combination of a body provided with a cylindrical recess, an inturned annular flange provided at one end of said recess and affording an annular shoulder, an annular gasket positioned in said recess in abutment with said shoulder and having a U-shaped cross-section affording an annular groove, a circular reflector mounted in said groove, a level supporting ring positioned in said recess in abutment with said gasket, a spirit vial mounted in and extending diametrically of said ring, a flat annular gasket positioned in the recess in abutment with said ring, the other end portion of said recess being internally screw-threaded, and an externally screw-threaded annular keeper member positioned in the screw-threaded portion of the recess and abutting said last mentioned gasket.

2,639,515
DRIER AND METHOD
Donald L. Simon, Crowley, La., assignor, by decree of distribution, to Ruth Rand Simon
Application December 16, 1948, Serial No. 65,548
2 Claims. (Cl. 34—13)

1. The process of drying discrete material which comprises: supporting a mass of the material upon a surface, which surface is imperforate at one portion and foraminous at another portion; heating said imperforate portion; passing cool air through said foraminous portion; continuously sweeping the lowest portion of the mass from said heated support to said foraminous support whereby to agitate the mass and to cause cool air to pass upward through a portion of the entire agitated mass to remove vaporized moisture.



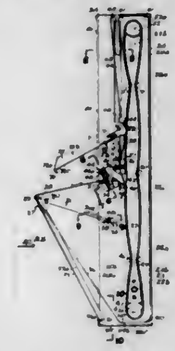
2,639,516
DRY CLEANING APPARATUS
Monte F. Huebsch and Albert H. De Moss, Fox Point, Wis., assignors, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application February 4, 1949, Serial No. 74,576
6 Claims. (Cl. 34—45)



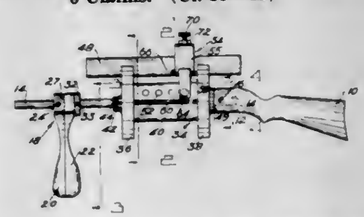
5. In a drying apparatus of the character described, the combination with a drying tumbler housing having a door movable to open and closed position, latching means for the door, means for circulating a current of air through the tumbler in said housing and means for heating said air as it passes to said tumbler, of operator controlled means for controlling the supply of heated air to said tumbler, means, operable on the operation of said control means, for preventing unlatching of said door, and means for rendering said last named means ineffective to permit unlatching of said door before said control means is operated.

2,639,517
APPARATUS FOR DRYING PHOTOGRAPHIC PRINTS
Robert Sardeson and Glen M. Dye, Minneapolis, Minn., assignors to Pako Corporation, Minneapolis, Minn., a corporation of Delaware
Application January 3, 1949, Serial No. 68,958
12 Claims. (Cl. 34—162)

1. An apparatus for drying photographic prints having in combination, a vertically elongated cabinet, a heated casing in said cabinet, a pair of endless aprons constructed and arranged to hold a print therebetween and move along said casing in close proximity thereto, said cabinet having a lower front wall portion swingable about a horizontal axis adjacent its bottom, a cylindrical member carried by said portion adjacent its top over which one of said aprons runs, said portion being movable to an outward position with said apron in receiving operative position and being movable to a substantially vertical position with said apron within said cabinet, said portion then forming part of the front wall of said cabinet.



2,639,518
DISPLAY DEVICE
John C. Vida, Detroit, Mich.
Application August 21, 1950, Serial No. 180,518
6 Claims. (Cl. 35—49)

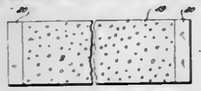


1. A device for displaying and demonstrating telescopic sights comprising a fixed support, a shoulder stock on one end of the fixed support, a forearm stock on the other end of the fixed support, such forearm stock including a pair of relatively movable members, locking means yieldably holding the relatively movable members in alignment and means on the movable members for controlling the relative movement therebetween, a rack rotatably mounted on the fixed support between the two stocks, index means between the rack and the shoulder stock providing a series of pre-determined stations for the rotatable rack and clamping means on the rack for securing a plurality of telescopic sights thereto.

2,639,519
SILICONE RUBBER IRONING PAD
Laurence N. Polk and James Horace Coulliette, Chattanooga, Tenn.
Application September 5, 1950, Serial No. 183,109
2 Claims. (Cl. 38—66)

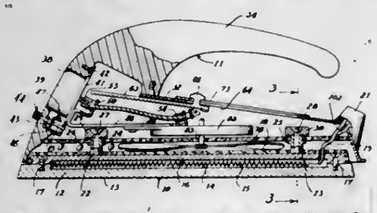
1. A pad for mounting to the pressing surface of an ironer, said pad comprising a substantially

rectangular sheet of silicone sponge rubber, said sheet having a co-planar narrow piece of solid



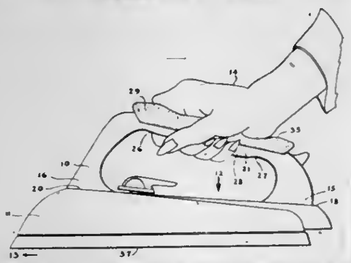
silicone rubber attached to the end of said sheet at at least one of the short sides thereof.

2,639,520
ELECTRIC FLATIRON
Carl Anderson, Morningdale, Mass., and Gilbert Adamec, Bronx, N. Y.; said Adamec assignor to said Anderson
Application September 27, 1951, Serial No. 248,505
7 Claims. (Cl. 38—75)



1. An electric iron comprising a bottom having heating elements therein, a top casing having top and side portions, spacing elements securing said bottom and said casing and providing air spaces between the bottom and the casing, air fan means lying in the space between the bottom and the casing, operating mechanism carried by said iron for operating said air fan means, and settable thermostat means connected with the heating elements of the bottom retained by the top casing, said operating mechanism for the air fan including a spring element, and a common operating element winding the spring element and for adjusting the thermostat means.

2,639,521
HANDLE MEMBER
Margaret Rickettson, Clementon, N. J.
Application February 23, 1951, Serial No. 212,346
7 Claims. (Cl. 38—90)



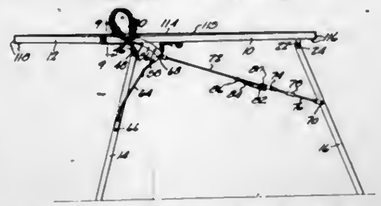
1. A handle member for imparting to a device, pressure in one direction, and motion in another direction; said handle member comprising a beam portion; a cradle formed in said beam portion and comprising a bed portion having an area substantially perpendicular to the direction of said pressure, and an inclined portion substantially intercepting said bed portion, said inclined portion being substantially perpendicular to the direction of application of movement-imparting pressure; a resilient pad of substantial yieldability, disposed in said cradle and adhesively secured to said bed portion and said inclined portion, said pad projecting beyond an outer limit of said inclined portion; and said cradle portion also comprising rigid, movement-control portions disposed in apposition to the location of a portion of a hand when said hand grasps said handle in pressure-imparting and movement-imparting operation.

2,639,522
CLOTHES CATCHER FOR IRONING BOARDS
Kathleen M. McCann, Weehawken, N. J.
Application July 1, 1950, Serial No. 171,661
3 Claims. (Cl. 38—111)



1. A clothes catcher for ironing boards comprising a bracket adapted to be pivotally connected to the ironing board, a spring roll connected to the bracket and between the side ends thereof, an apron member carried by the spring roll, said apron member having an opening therein adjacent one end thereof through which the forward leg structure of the ironing board may be extended and releasable means on the other or free end of the apron member for releasably connecting the apron member when extended to the rear legs of an ironing board to retain the same against the action of the spring roll.

2,639,523
COLLAPSIBLE HINGED TABLE
John W. Beiger, South Bend, Ind.
Application May 16, 1952, Serial No. 288,152
7 Claims. (Cl. 38—139)



1. A collapsible table comprising a pair of rigid panels adapted for edge abutment when erected, a pair of legs pivoted to one panel adjacent one end thereof, a third leg pivoted to said one panel at the other end thereof, a bracket extension carried by the other panel, a brace interconnecting and pivoted to said third leg and said bracket extension, folding braces interconnecting and pivoted to said first legs and said bracket extension, and a latch carried by said one panel and releasably engaging said bracket extension adjacent to the pivot connections of said first brace and said folding braces therewith.

2,639,524
MARKER
Albert J. Irving, Brewster, N. Y., assignor to Permark Company, Inc., New York, N. Y., a corporation of New York
Application January 4, 1950, Serial No. 136,753
8 Claims. (Cl. 40—10)

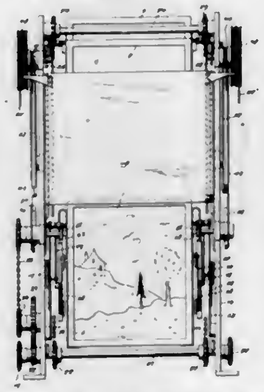
1. An identifying marker and the like comprising a standard made from a unitary length

of rod-like material having an end portion thereof bent to form a hook and having spaced reverse bends intermediate its ends to form a laterally extending arm with a surface facing the inner surface of said hook and a laterally offset portion connecting said hook and bends, the longitudinal axis of said bent end portion of the standard



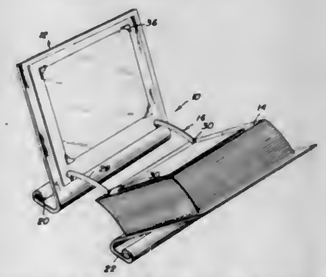
being in a common plane and a card of sheet material having a hole adjacent one edge thereof through which the standard extends, said card being supported edgewise between said surfaces with the periphery of said hole engaging one of said surfaces and the remote opposite edge of said sheet engaging the other of said surfaces.

2,639,525
AUTOMATIC THREE-DIMENSIONAL DISPLAY DEVICE
Henry M. Riley, Manhasset, and August Huether, Baldwin, N. Y.
Application March 7, 1946, Serial No. 652,728
6 Claims. (Cl. 40—36)



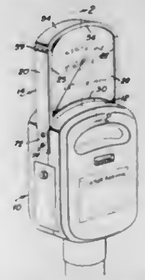
4. A display device comprising a frame, a plurality of display units, each of said units constituting a display, a horizontal track at the top of said frame, means for moving forwardly a display on said track, a vertically movable carriage for lowering said display, a lower horizontal track on said frame, means for depositing said display on said lower track, means for exhibiting the same, means for moving said display rearwardly on said lower track, and a vertically movable carriage for raising said display and depositing the same on said upper track, each of said units having at least two plates interlinked so as to permit spreading thereof at the area where said display is exhibited, a wedge at said lower track, and means for raising the same into a position between said plates to spread said plates apart as said display approaches said lower track, and a slider lever at said lower track adapted to contact said spread display and move the same rearwardly.

2,639,526
ALBUM
Andrew J. Bepristis, Azusa, Calif.
Application April 5, 1948, Serial No. 18,981
1 Claim. (Cl. 40—102)



An album comprising a pair of retaining plates, flanges formed on one of the marginal side edges of the plates and angularly related to the plates to support the plates in an upwardly and outwardly inclined plane, a pair of upwardly bowed connecting rails transversely disposed between the converging side edges of the plates and constituting the sole connecting means, and a plurality of detachable leaves slidably mounted on the rails, said plates being held in fixed relation to each other by said rails.

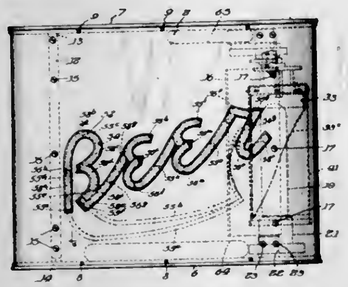
2,639,527
SIGN HOLDER FOR PARKING METERS
Maron J. Esty and Edward F. Bannon, Machias, Maine
Application August 15, 1950, Serial No. 179,588
1 Claim. (Cl. 40—125)



A sign holder of the character described comprising, a case for mounting on a parking meter, said case being open at its front, rear and top and comprising side walls, a vertical partition extending between said side walls and an arcuate bottom extending between the side walls and adapted to seat on top of the meter, said side

walls terminating in apertured lower end portions depending below the bottom for receiving the meter therebetween for attachment thereto, removable transparent panels slidably inserted in the case on opposite sides of the partition and spaced therefrom for defining, in conjunction therewith, a pair of compartments for the reception of advertising matter, an arcuate cover having one end hingedly connected to the upper end of one of the side walls, means for releasably locking the free end of said cover to the upper end portion of the other side wall, inturned marginal retaining flanges for the transparent panels on the side walls, the bottom and the cover, and resilient spacing strips in the compartments between the transparent panels and the partition and adapted to receive the advertising matter therebetween.

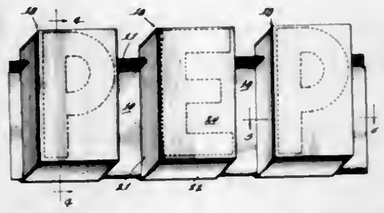
2,639,528
DISPLAY DEVICE
Raymond B. Ochsner, Hinsdale, Ill.
Application October 2, 1947, Serial No. 777,391
3 Claims. (Cl. 40—130)



1. In a display device, the combination of a light source, a plurality of elongated light transmitting members of substantially uniform rectangular cross section throughout their length having one of their corresponding ends operatively related to said light source for receiving light therefrom and transmitting the same to the opposite ends of the respective members, each of said last mentioned ends being provided with a substantially flat rectangular end surface, the plane of which extends at an acute angle to the axis of the end portion of such member, with said end surfaces being arranged in substantially a common plane to form indicia illuminable by the passage of light through said members, an opaque surface associated with and forming a background for said indicia, and means for controlling the admission of light from said source into the adjacent ends of said members in a predetermined sequence to successively illuminate adjacent indicia forming ends of certain of said light transmitting members and to impart a visual sensation of movement to portions of the display device.

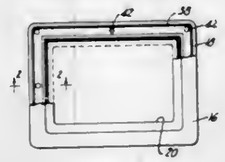
2,639,529
DISPLAY SIGN
Richard E. Fox, Glenview, Ill., assignor to General Porcelain Enameling and Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 10, 1950, Serial No. 172,920
3 Claims. (Cl. 40—143)

1. A display sign comprising a generally rectangular panel of stiff sheet material adapted to be mounted in a vertical plane, said panel having the upper marginal portion thereof bent forwardly out of the plane of the panel at approximately 30° to provide an upwardly inclined flange and the lower marginal portion thereof bent rearwardly to provide a flange of generally arcuate shape, and a sign member of relatively stiff sheet material adapted to be mounted on said panel, said sign member having a display face



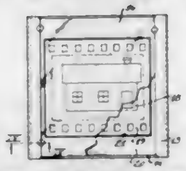
disposed in a plane parallel to said panel and forwardly thereof, lateral and top and bottom flanges extending rearwardly of said display face, said lateral flanges having aligned inclined notches therein adapted to receive the inclined flange of said panel to thereby support said sign member, said bottom flange terminating in an arcuate shape whereby to interfit in a spring pressed manner with the arcuate flange of said panel and lock said sign member to said panel.

2,639,530
FILM HOLDER
Patterson D. Merrill, South Bend, Ind.
Application June 26, 1951, Serial No. 233,537
7 Claims. (Cl. 40—152)



7. A film holder comprising a pair of flat members, each member having a central sight opening of a size smaller than a film insert and having a recess in one face thereof adapted to receive said film insert, the inner marginal portion of each member being resilient and of substantially frusto pyramidal form, one of said members having a continuous projection at the outer marginal portion of said recessed face and spaced from said recess, cooperating means for interlocking the outer marginal portions of said members, said interlock means being located between said projection and said recess and serving to interlock said members with said sight openings in register, with said inner marginal portions in continuous sealing engagement with opposite faces of said film insert and with said projection in continuous sealing engagement with the outer marginal portion of the opposite member, and a flange carried by one member adjacent said recess and extending substantially perpendicularly to the inner marginal portion of said member, said last named flange having a telescopic guiding fit in the recess of the opposite member.

2,639,531
SLIDE BINDER
Herbert H. Engemann, Cleveland, Ohio
Application June 3, 1950, Serial No. 165,992
13 Claims. (Cl. 40—158)



1. A slide binder for a photographic transparency assembly comprising a central normally concavo-convex web portion formed of resilient material and having a central aperture through which a transparency retained by the binder may be viewed, and means formed integrally with the web portion and extending in spaced relation thereto to bear against a rigid transparency assembly interposed between the web portion and said means.

2,639,532
BRANCHED ARTICLE AND METHOD OF MAKING SAME
Monte Seewald, Long Beach, N. Y., assignor to Decorative Novelty Co., Inc., Brooklyn, N. Y., a corporation of New York
Application February 5, 1952, Serial No. 269,954
16 Claims. (Cl. 41—10)



4. A branched article comprising a single sheet of inelastic material having a first set of cuts therein largely on one side of a substantially straight longitudinal line of the sheet and having a second set of cuts therein largely on the other side of said line, the cuts intersecting said line and dividing the sheet into two oppositely arranged sets of strips, successive cuts of the first set alternating repectively with those of the second set, the sheet being twisted about said line as an axis, and a twisted elongated element at said line and maintaining the sheet in the twisted position thereof.

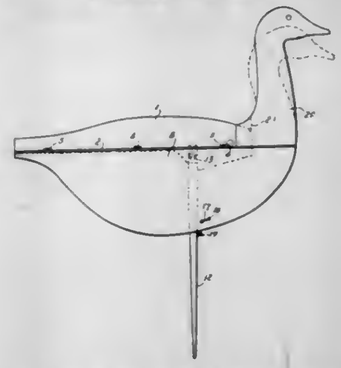
2,639,533
PROCESS FOR THE MANUFACTURE OF ARTIFICIAL LEAVES OF PLANTS
Gabriel Casals, Vedado, Havana, Cuba
Application March 15, 1952, Serial No. 276,777
1 Claim. (Cl. 41—13)

Process for the manufacture of artificial leaves for plants, which comprises cutting a pattern in accordance with the shape of the leaf which reproduction is desired, folding that pattern along a line that follows the axis of the leaf, starting from a point situated approximately halfway the length of the leaf and in an opposite



direction to its extremity, and along two lines that converge in that point, one on each side of that axis and which end in the periphery of the leaf; and secure in the pleat thus formed the end of a rod.

2,639,534
DECOY
Frank Stossel, Winnipeg, Manitoba, Canada
Application May 10, 1948, Serial No. 26,219
3 Claims. (Cl. 43—3)



1. In a decoy for birds, a central vertical rigid plate, longitudinally extending side bars engaging the sides of the plate, hinges extending through slots provided in the plate and interconnecting the side bars, said hinges being positioned to permit of upswing of the bars, similar flexible side wings permanently secured to and extending outwardly from the bars and a supporting stake having its upper end split to span the under side of the plate and pivoted thereto to fold rearwardly, said bars being notched to receive and lock the upper end of the downwardly extending stake against movement, upon the said bars being down swung from their up positions.

2,639,535
FISHING TROLLEY WITH IMPROVED TROLLEY FRAME
Stephen T. Greske, Chicago, Ill.
Application August 3, 1950, Serial No. 177,514
2 Claims. (Cl. 43—27.2)

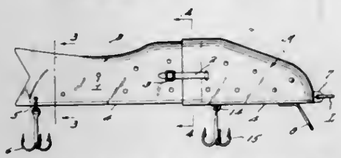
2. A fishing trolley for use on a trolley line comprising a sinker having a fishing line eye, a trolley line pulley, and means for attaching said pulley to said sinker, said means embodying a frame having spaced parallel limbs, one limb being substantially rigid and one end thereof be-

ing free and having a rigid hook-shaped terminal wholly embedded in said sinker, the remaining limb being shorter in length than said first named limb, being resilient and terminating in a U-shaped bend, the latter being disposed in the existing space between the respective limbs and having an upper portion at right angles to said



short limb, having a curvate bight portion resiliently contacting an intermediate portion of said long limb and further having a free lower portion disposed in spaced parallelism to an adjacent surface of said sinker and cooperating with the latter in providing an unobstructed entrance and exit opening for a trolley line.

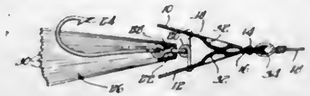
2,639,536
LIVE BAIT HOLDER
Vern Hartman and Orville B. Gladwell, El Monte, Calif.
Application September 21, 1949, Serial No. 117,008
1 Claim. (Cl. 43—41)



In a live bait holder, a hollow transparent body formed of front and rear end members having their adjacent ends open for telescopic engagement one with the other and their bottoms substantially flat, coupling straps at the opposite sides of the members for detachably securing the same together, said members having their opposite sides perforated for the circulation of water through the body to keep the bait alive, the top side of the body from end to end being irregularly shaped to conform generally to the shape of that part of the body of a fish, the rear member having its rear end portion contracted to form a central, relatively narrow, inverted V-shaped fin simulating the caudal fin of a fish, an apertured lug at the forward end of the front member for the attaching of a trolling line to the body, and hooks suspended from the lower sides of the front and rear members, the points of suspension of said hooks being in line with the longitudinal center of the bottoms of said members, and that of the rearmost hook being beneath the caudal fin forming portion of the rear member.

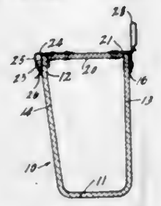
2,639,537
FISH LURE
Clyde L. Wagner, Tulsa, Okla.
Application February 12, 1947, Serial No. 728,164
10 Claims. (Cl. 43—42.34)

4. A fish lure comprising a pair of spoons, said spoons having a body portion disposed substantially in a plane, the forward edge of each of said spoons being bent out of the plane of the body portion to form an attachment portion, fastener means interconnecting said spoons at the attachment portion, said body portions diverging rearwardly from said attachment portions, the portions of said attachment portions extending forwardly from the fastener means diverging forwardly to impart increased action to the fish lure, a member extending between and interconnecting said spoons at a point spaced rearwardly from



said fastener member, a fish hook attached to said interconnecting member, the body portion of said spoons having a dimple formed therein at a point disposed between said fastener means and said interconnecting member, the material forming said dimples extending inwardly toward the adjacent spoon, and a leader wire attached to said spoons adjacent said fastened member.

2,639,538
BAIT BOX
George A. Gemmer, Richmond, Ind.
Application June 28, 1950, Serial No. 170,904
2 Claims. (Cl. 43—55)

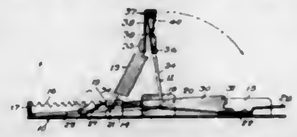


1. A bait box comprising a one-piece hollow body of air permeable material, said body having upright walls and a bottom wall of substantial thickness, the body material being substantially impervious to water and pervious to air, a relatively narrow metallic band extending about the upper portions of said upright walls and constituting the sole support for said body, a closure for the upper end of said body, a hinge having a part secured to said closure and a part on the outer side of said band on one side of said body, an attaching device extending through said body, said band and the last mentioned part of said hinge and rigidly connecting the same one with the other, a second attaching device extending through said body and said band at the other side of said body to rigidly connect the same one with the other and having a part projecting outwardly beyond said band and forming a latch member, a second latch member secured to said closure and extending downwardly therefrom to operatively engage the first mentioned latch member, and a carrying device connected with said band.

2,639,539
TRAP
George W. Oakes, Crystal City, Mo.
Application February 8, 1950, Serial No. 143,035
2 Claims. (Cl. 43—83.5)

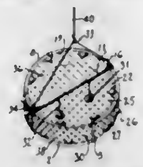
1. A trap including a base, a spring actuated jaw pivoted on said base for movement between a sprung position and a set position, a trigger mounted on said base for pivotal movement, said trigger having a bait holding means on one end

and projections thereon near its other end, said projections being disposed between the pivotal axes of the jaw and the trigger, a loop on the jaw, means on the loop engageable with the projections upon pivotal movement of the loop and trigger into set position, and a manipulatable



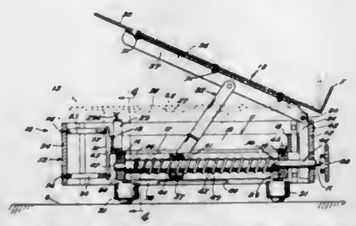
member connected with said means on the loop for limited movement with respect thereto, said manipulatable member having portions which respectively bear on said means on the loop and on one end of the trigger beyond said projections in setting the jaw and trigger with the manipulatable member.

2,639,540
CRAB TRAP
William J. Buford, Houston, Tex.
Application May 1, 1950, Serial No. 159,248
3 Claims. (Cl. 43—102)



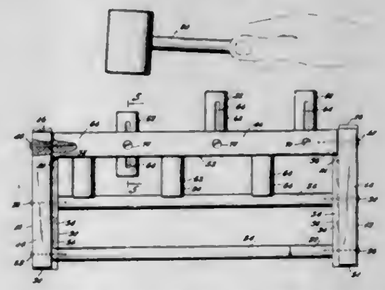
1. In a crab trap, the combination of a bottom member, a mesh cover for said bottom member, side straps upstanding from said bottom member comprising guide slots, a top ring connected to the top of said side strap, a side closure member comprising a ring slidable in said guide slots, and mesh connected at the top to said top ring and extending downwardly for connection to said slidable ring, a crossbar extending between diametrically opposite side straps at substantially the top thereof, a pair of mesh covered, semi-circular lids pivotally connected to said crossbar at substantially the ends thereof, and float means on said lid and on the curved peripheries of said slidable ring.

2,639,541
MISSAL STAND
Leo R. Le Tang, Cincinnati, Ohio
Application August 14, 1951, Serial No. 241,707
2 Claims. (Cl. 45—80)



1. In a device of the class described the combination of an open horizontal frame, a plate hinged to the top front of the frame, a pair of rectangular bearing blocks, a shaft journalled at opposite ends in said blocks, pairs of guide strips secured in parallelism on opposite sides of the bearing blocks and defining parallel guide slots longitudinally centered in a plane with the center axis of the shaft, a traveling block disposed guidedly between the pairs of guide strips and having an enlarged smooth bore surrounding the shaft, pivot pins extending outwardly from opposite sides of the traveling block on a common diameter of said smooth bore, said pins projecting through the respective guide slots for tangential contact with the edges of guide strips, the bearing blocks being secured to the bottom front and bottom rear of the frame midway the ends and disposing the center axis of the shaft at right angles to the hinged mounting of the plate and in a horizontal plane below the frame, a rigid strut link having at one end a pair of divergent arms pivoted respectively to opposite sides of the plate and having at its opposite end a pair of parallel arms pivoted respectively on the free ends of the pivot pins outwardly of the guide strips, a helically coiled wire surrounding the shaft and having its opposite ends only anchored to the shaft, an arcuate saddle piece fixed to the wall of the bore in said traveling block and entering between one pair of adjacent turns of the wire and presenting its edges for tangential contact with the wire, and means to rotate the shaft.

2,639,542
CHILD'S POUNDING TOY
Harry E. Miller, Madison, N. J.; John F. Wallace, executor of said Harry E. Miller, deceased, assignor to Childhood Interests, Inc., Roselle Park, N. J., a corporation of New Jersey
Application September 2, 1950, Serial No. 182,900
2 Claims. (Cl. 46—1)



1. A toy comprising a pair of frame end walls, connecting members interconnecting said frame end walls, a pounding board having a plurality of openings formed therethrough, pegs disposed in each of said openings, each peg being greater in length than the thickness of said pounding board, means for effecting pivotal engagement between said pounding board and said frame end walls, so that said pounding board is free to be turned about its pivotal axis to expose each of its two faces in turn, and means for adjusting the degree of frictional fit between the said openings and the pegs disposed therein, said means comprising fastening members threadedly engaging said pounding board, one end of each of said fastening members being oriented toward each of said pegs, grooves formed in the outer surfaces of each of said pegs, so that said grooves will receive said end of said fastening members, whereby, upon the turning of said fastening

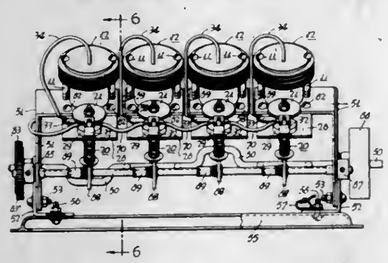
members the degree of frictional fit is increased or diminished, depending upon the direction of turning of said fastening members.

2,639,543
SMOKE-SIMULATING TOY GUN AND AMMUNITION
Julius Abler, Chicago, Ill., assignor of one-half to Abel Engelman, Chicago, Ill.
Application July 23, 1949, Serial No. 106,347
6 Claims. (Cl. 46—9)



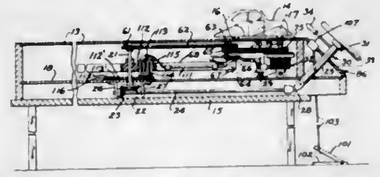
1. A paper roll for use in a popgun and adapted to be perforated by air pressure applied thereto by the popgun comprising a strip of imperforate and tough but brittle paper formed in a roll and having a width for reception in the popgun and constructed to withstand a substantial air pressure applied thereto before it is perforated thereby and to produce a clean sharp break to afford a sharp report when perforated by the substantial air pressure, and a coating of pulverant material releasably carried by the surface of the paper strip to be forcefully separated from the paper strip when the paper strip is so perforated by the air pressure to produce the appearance of gunfire smoke.

2,639,544
TOY ENGINE KIT
David W. Coffin, Upper Darby, Pa.
Application July 19, 1948, Serial No. 39,489
6 Claims. (Cl. 46—39)



5. A construction toy kit comprising a plurality of knock-down imitation internal combustion engine parts from which an imitation internal combustion engine may be assembled, said kit including an open framework; a plurality of imitation internal combustion cylinders to be detachably mounted on said framework; a plurality of solenoids, one contained within each imitation cylinder; means for selectively attaching and detaching said cylinders to the framework; a plurality of imitation internal combustion engine pistons, one to be mounted within the bore of each solenoid for axial reciprocation therein; a dielectric cam to be journaled in said framework to imitate the valve actuating cam of an internal combustion engine; a plurality of imitation poppet valves, one to be slidably mounted on said framework adjacent one of the imitation internal combustion engine cylinders to be reciprocated by said cam, said imitation poppet valves each including an electric make and break mechanism, to be connected in an electric circuit connected to a source of electrical energy; electrical connections between the make and break mechanism of each imitation poppet valve and its adjacent imitation engine cylinder and connected to the solenoid therein; and means including a crankshaft rotated by reciprocation of said imitation pistons for rotating the dielectric cam in timed relation to movement of the imitation pistons, said cams actuating said imitation poppet valves and said electric make and break mechanism alternately to energize and de-energize said solenoids.

2,639,545
REMOTELY CONTROLLED TOY CAR
Fritz J. Pastorius, San Carlos, Calif.
Application July 3, 1951, Serial No. 234,949
5 Claims. (Cl. 46—45)



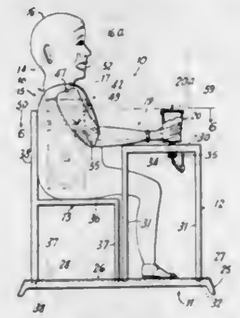
1. A table toy comprising a planar surface, a movable member freely movable on and about said surface, a magnet-responsive element on said member, surface-engaging elements supporting said movable member, a carriage movably supported below said surface, a magnet on said carriage in close proximity to said surface and of sufficient magnitude to attract said element and means for moving said carriage and said movable element in unison at variable speeds and variable directions; said means comprising an electrical circuit, a reversing motor included in said circuit and actuated upon energization thereof, a shaft on said motor, a worm on said shaft, surface-engaging wheels on said carriage supported on an axle, a pinion on said axle meshing with the worm on said shaft, means for causing said shaft to rotate in one or the other of two directions of rotation whereby said last named surface-engaging wheels and said carriage are caused to move forwardly and rearwardly, and means for turning said last named surface-engaging wheels about a vertical axis to steer said carriage as well as said movable member.

2,639,546
SPINNING TOP WITH BEAD CHAIN SWIVEL
Glen Dee Shockey, Santa Fe County, N. Mex.
Application May 17, 1949, Serial No. 93,725
8 Claims. (Cl. 46—66)



4. A top comprising a body portion symmetrical about an axis thereof; a pivot at one end of the top and in alignment with said axis; a bead chain comprising a series of at least three beads; the body portion defining a hole of larger diameter than the beads of said chain the upper end of which hole is coaxial with said body portion; said bead chain extending into said hole and having one end of the bead chain movable to a position outside the upper end of the hole; means to limit the outward motion of the bead chain comprising a part larger than the hole and connected to the other end of the bead chain; said bead chain being composed of hollow beads each bead having two holes therein, and rigid rods connecting adjacent beads together, each rod extending into holes in the beads it connects together and each rod having each end thereof within a bead enlarged to thus prevent the rod from leaving the bead; and a cord detachably connected to the bead at the upper end of the chain, the bead chain being short as compared to the length of the cord.

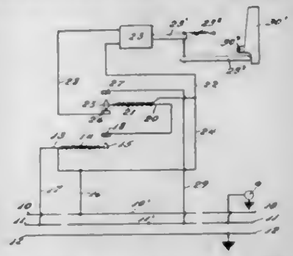
2,639,547
MECHANICAL FIGURE SIMULATING POURING AND DRINKING LIQUID
Milton Adler, New York, N. Y.
Application April 3, 1948, Serial No. 18,801
15 Claims. (Cl. 46—141)



8. A mechanical toy comprising a toy figure having a body, a head on said body, an arm pivoted to said body, a glass on said arm, a crank shaft on said body, means to rotate said crank shaft, means on said crank shaft to oscillate said arm up to the head and down away from said head, a flexible tube connected to the lower end of the glass and extending to a level above the height of the glass when said arm is in its down position, said tube having a volume at least as great as said glass and being open at its upper end, spring means to constrict said tube, and means on said crank shaft to release said constricting means as said arm approaches the ends of its oscillating strokes.

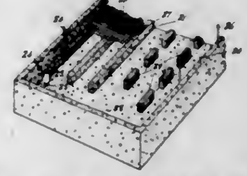
2,639,548
TOY RAILWAY AUXILIARY
Melvin Reeves Hall, Atlantic City, N. J.
Application November 28, 1951, Serial No. 258,631
6 Claims. (Cl. 46—216)

1. In a toy railway auxiliary, a normally energized railway rail having an insulated portion, a normally deenergized railway rail having an insulated portion, a normally grounded railway rail extending past the insulated portions, a first electrical timer electrically connected from the normally energized rail to the insulated portion of the normally deenergized rail whereby it will be energized through the wheels of the train when they connect from the insulated portion of the normally deenergized rail to the grounded rail, a second electrical timer operatively connected by the first electrical timer after the first electrical timer times out between the normal energized rail and the insulated portion of the normally deenergized rail, electrical connections from the second electrical timer after the second timer



times out to the insulated portion of the normally energized rail for re-starting the train and an auxiliary electrical device operatively connected to the second timer when it begins to time and connected across between the energized rail and the insulated portion of the deenergized rail.

2,639,549
SOILLESS CULTURE
Gerrit Jan Hillegondus Ebbinge Wubben, and Abram Arie Steiner, The Hague, Netherlands, assignors to Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek, The Hague, Netherlands
Application July 24, 1950, Serial No. 175,588
10 Claims. (Cl. 47—1.2)

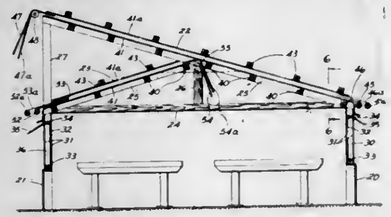


1. A water culture apparatus for the cultivation of plants comprising a groundplate provided with ridges, a perforated bottom resting on the ridges in the groundplate and spaced thereby from said groundplate, a bed of gravel placed on said perforated bottom serving as an inert plant supporting material, an inlet and an outlet gutter on opposite sides of said groundplate, a nutrient solution, a sump for storing said nutrient solution, a pump and piping line to bring the nutrient solution back to the sump, said outlet gutter provided with an adjustable overflow to control the level of the nutrient solution on said groundplate, said gutter having leak holes for draining the entire quantity of nutrient solution from the groundplate.

2,639,550
APPARATUS FOR GROWING TENDER PLANTS
Arthur G. McKee, Cleveland, Ohio
Application September 20, 1947, Serial No. 775,200
9 Claims. (Cl. 47—17)

2. A greenhouse having north and south walls extending in an east and west direction and a double sloped roof, said roof including a south slope inclined upwardly from the top of said

south wall to a point substantially vertically above the north wall, a north slope inclined upwardly from the top of the north wall to intersect with



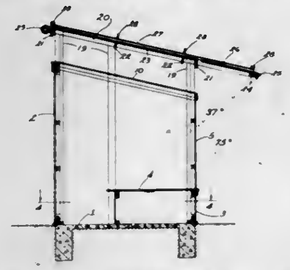
said south slope, flexible, translucent, retractile curtains in each of said slopes, and means above and below said curtains to restrain vertical movements thereof.

2,639,551

GREENHOUSE WITH MEANS FOR CONTROLLING LIGHT AND HEAT

Arthur G. McKee, Cleveland, Ohio

Application June 1, 1949, Serial No. 96,490
10 Claims. (Cl. 47—17)



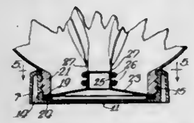
1. A greenhouse comprising a floor, end walls, side walls, and an upwardly inclined translucent main roof defining a closed plant-growing space, and a false roof substantially parallel with and spaced above the main roof defining therewith a passage for the flow of air therebetween and comprising a flexible translucent protractile curtain and means above and below the curtain for limiting the vertical movement thereof.

2,639,552

PLANT AND FLOWER HOLDER

Fred W. Tredup, Chicago, Ill., assignor to A. L. Randall Company, Chicago, Ill., a corporation of Illinois

Application April 13, 1948, Serial No. 20,682
1 Claim. (Cl. 47—41)



A flower and plant holder comprising a supporting member provided with spaced, continuous and depending walls the outer of which is angularly arranged and providing a substantially rectangular base and an internal, substantially cylindrical wall defining an upwardly opening and centrally arranged cavity therein, the interior, cylindrical wall defining said cavity having an internally projecting thread generated about the vertical axis of the cavity, said spaced walls and the bottom wall of the cavity being continuous, integral and imperforate, a centrally disposed flower and plant holding assembly projecting upwardly in said cavity and consisting of an upstanding projection for receiving the stems of the flowers and plants about its peripheral surface and one or more resilient bands adapted to encompass the stems of the flowers and plants and retain them clamped and in fixed position against the peripheral surface of the upstanding projection, an annular gasket seated in the cavity against the circular side wall at the base thereof, and a transparent globe having an open end with an externally threaded neck portion threadedly engaged with the thread of said side wall and when in assembled relation upon the supporting member the end of the neck portion bears against and effects a water-tight sealing engagement with said gasket.

2,639,553

PROCESS OF TREATING AND HARVESTING OF FORAGE CROPS AND THE LIKE

Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a company of Wisconsin

No Drawing. Application October 14, 1946, Serial No. 703,093
2 Claims. (Cl. 47—58)

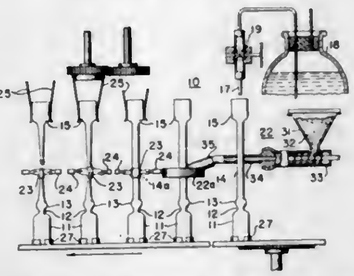
1. The process of killing and harvesting a standing economic crop for forage, which comprises killing the plant growth of the crop by progressively subjecting the standing crop while the crop is green and in bloom to a flow of hot gas applied to substantially the full height of the crop plants above the ground and at a temperature and speed of application sufficient to kill the plant growth but insufficient to fell or consume the crop, thereafter allowing the crop to stand and dry by exposure to the free uncontaminated atmosphere, and then cutting the crop plants just above the ground and gathering the crop simultaneously with said cutting.

2,639,554

METHOD OF AND APPARATUS FOR SEALING AMPOULES

Frederick W. Zons, Brooklyn, N. Y.

Application August 18, 1950, Serial No. 180,158
19 Claims. (Cl. 49—1)



1. The process of marking a glass ampoule at the time of sealing, which comprises applying a marking material to the ampoule at the area where the seal is to be formed, and then simultaneously heating said marking material and the area covered thereby to form a seal of the glass

at said heated area with the marking material fused thereon.

6. A machine for sealing a glass ampoule having a filling stem symmetrical about a longitudinal axis, said machine comprising an ampoule support; means for moving the support with the ampoule successively to several operating positions including a fusing and sealing position and simultaneously rotating the ampoule about its axis; and means operating with the moving support for applying a marking material to a predetermined limited area of the filling stem of the ampoule while the ampoule is moving between two operating positions and rotating before subjecting the stem to heat to fuse and close the stem to seal the ampoule and to fuse the marking material to the stem.

2,639,555

CATHODE-RAY TUBE SEALING PROCESS

Albert L. Buttino, San Francisco, Calif., and Howard R. Patterson, Belmont, Mass., assignors to The Rauland Corporation, a corporation of Illinois

Application October 15, 1949, Serial No. 121,564
6 Claims. (Cl. 49—81)



1. The method of uniting a tubular vitreous neck member and a glass plate to a tubular metallic member having an outwardly flaring flange at one end, comprising: mounting said metallic member with its axis in a vertical position and with said flanged end upward; placing said glass plate on said flanged end; mounting said neck member coaxial with said metallic member but spaced from the lower end of said metallic member; locally heating said lower end of said metallic member and the portion of said neck member adjacent said lower end until said portion reaches a plastic state; bringing said neck member and said metallic member into contact with each other; and locally heating the edge of said glass plate to sealing temperature.

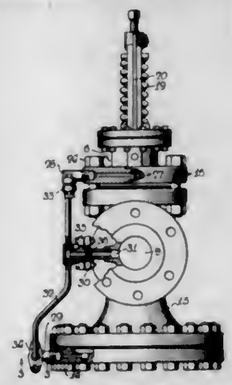
2,639,556

PILOT OPERATED REGULATING VALVE

Paulsen Spence, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York

Application July 9, 1947, Serial No. 759,809
6 Claims. (Cl. 50—12)

1. In a regulating valve, a valve body having an inlet opening and an outlet opening, a main valve member for controlling flow between said openings, pressure-responsive means carried by said body and connected for actuating said main valve member, said body having a single bonnet opening communicating with said inlet opening and overstanding said main valve member, and a unit pilot-valve and bonnet for said opening, said unit including a pilot-valve member on the bottom thereof and directly exposed in said bonnet opening whereby said pilot-valve member may be directly exposed to the inlet opening of said main valve when said unit is applied to said bonnet opening, said unit further including pressure-responsive means for said pilot-valve member, connecting means on said unit for connecting the low-pressure side of said pilot-valve member to said first-mentioned pressure-responsive means, and bleed-connecting means on said unit for bleeding the low-pressure side of said pilot-valve member to the outlet side of said body.

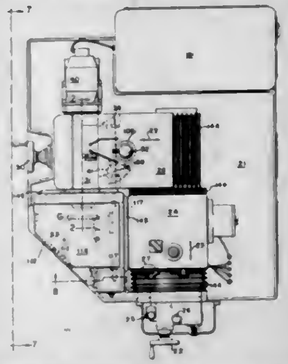


2,639,557

GEAR FINISHING MACHINE

Frederick E. McMullen, Rochester, and Theodore H. Peck, Irondequoit, N. Y., assignors to The Gleason Works, Rochester, N. Y., a corporation of New York

Application August 24, 1951, Serial No. 243,402
13 Claims. (Cl. 51—26)



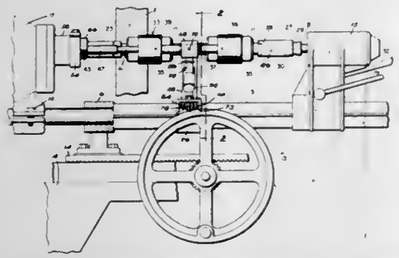
1. A machine having a pair of spindles for mounting gears for running in mesh, relatively movable housings supporting the spindles for rotation, actuating means for moving the housings relatively to each other while the gears are being rotated, means for adjusting the housings whereby for drive on one side of the gear teeth the motion of the gears effected by the actuating means may be from a mean position of mesh suitable for drive on that side of the teeth, and set over means for simultaneously shifting the housings in different directions whereby for drive on the other side of the teeth the motion of the gears effected by the actuating means may be from another mean position of mesh.

2,639,558

BUFFING MACHINE FOR DRAWING ROLLS

Louis M. Cotchett and Richard K. Butler, Whitman, Mass., assignors to Textile Engineering Corporation, Whitman, Mass., a corporation of Massachusetts

Application August 24, 1951, Serial No. 243,480
10 Claims. (Cl. 51—95)



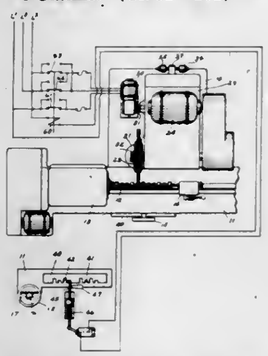
1. A machine for buffing drawing rolls having in combination a grinding wheel, a motor, a shaft on the motor, means for supporting a drawing roll for rotation about the axis of such shaft, devices mounting the supporting means and the motor for movement to and from the grinding wheel, a driving roller to engage the drawing roll, means driven by the motor rotating the driving roller about an axis offset from that of the motor shaft, and means for shifting the driving roller in and out of driving engagement with the drawing roll.

2,639,559

CAM GRINDER

Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.

Application August 9, 1950, Serial No. 178,469
8 Claims. (Cl. 51—101)



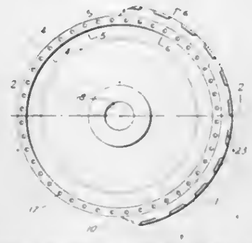
8. In a machine of the kind described, a base, a wheel support movable transversely on said base, a grinding wheel rotatably mounted on said wheel support, a pivotal mounting for said wheel support for swivelling movement about a vertical axis, a work carriage slidably mounted on said bed for longitudinal movement relative to said grinding wheel, means for rotatably supporting a cam shaft on said carriage, means for effecting said longitudinal movement of said carriage, a locating mechanism for controlling said longitudinal moving means to position spaced cams on the cam shaft in grinding relation to the grinding wheel, means to swivel said wheel support in either direction, and means including a control device actuated by said locating means for initiating operation of said swivelling means to position said grinding wheel angularly for grinding tapers on said cam.

2,639,560

CONTACT WHEEL

William J. Cosmos, Chicago, Ill., assignor to Chicago Rubber Company, Inc., a corporation of Illinois

Application October 2, 1950, Serial No. 187,851
2 Claims. (Cl. 51—141)



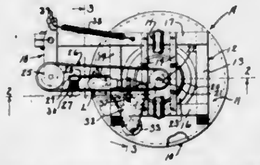
1. A contact wheel comprising an elastic rim of the traction type to engage successive portions of the inside of an abrasive band and to drive it against the resistance of a workpiece pressed against the portion of the band in contact with the wheel; and a rigid body having the elastic rim molded thereon, the body consisting of a homogeneous casting and comprising a flange which has a generally cylindrical outer surface with a plurality of closely spaced port holes uniformly distributed over said entire surface in a plurality of laterally spaced circular rows intersecting with a plurality of peripherally spaced transverse rows of such holes, the total area of such holes being a major part of the area of said outer surface, each port hole being recessed into and undercut below said outer surface and communicating with another surface of the flange, whereby the plastic rim molded thereon has closely spaced, integral and homogeneous extensions laterally and peripherally distributed over the flange and anchoring the rim to the flange against the forces resulting from said resistance of the workpiece and from a surface speed in the range of about 5000 to 10,000 feet per minute.

2,639,561

EGG CLEANER

Glenn Aspinall, Burlington, Wis.

Application August 3, 1951, Serial No. 240,079
8 Claims. (Cl. 51—141)



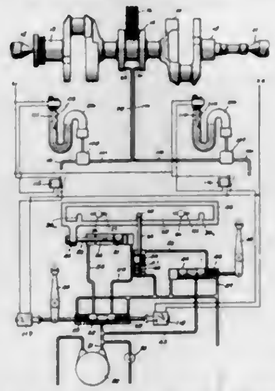
6. In an egg cleaning machine, a base, a supporting frame secured to said base, a drive pulley carried by the frame, belt tensioning means including a pivoted spring tensioned arm carried by said frame, an idle pulley rotatably mounted on the outer end of said arm, an endless abrasive belt trained about the drive pulley and the idle pulley, means for imparting motion to the shaft of the drive pulley, and a brush backing member extending transversely of the belt adjacent to the inner face of the egg cleaning stretch and against which the belt is pressed when an egg is held against the belt.

2,639,562

PRECISION LOCATING DEVICE

Harold E. Balsiger, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.

Application February 9, 1950, Serial No. 143,326
9 Claims. (Cl. 51—165)



1. In a grinding machine for successively grinding spaced cylindrical portions of a work piece, each having opposed shoulder or flange portions, a grinding wheel, a work support, means for effecting a relative axial movement between said work and said wheel to successively position said cylindrical portions and said grinding wheel, including a spacing bar for one of said members having spaced notches corresponding to the portions to be ground, a plunger for engaging said notches to position said members in approximate operative relation, a work locating device having means cooperating with said shoulder portions for determining the relative position of said shoulder portions and said grinding wheel, and means actuated by said locating device for causing said axial moving means to place said grinding wheel and each of said portions of said work piece successively in substantially exact alignment.

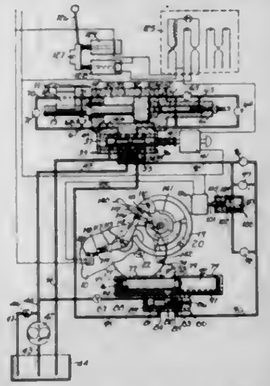
2,639,563

GRINDING WHEEL FEEDING MECHANISM

Homer L. Swainey, Cleveland, Ohio, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 21, 1950, Serial No. 191,386
10 Claims. (Cl. 51—165)

1. In a grinding machine having a transversely movable wheel slide, a rotatable grinding wheel thereon, a feeding mechanism to feed said slide, a rotatable feed wheel therefor, an adjustable stop abutment on said feed wheel, a movably mounted stop pawl positively to limit rotation of the feed wheel, power operated means continuously to actuate said feeding mechanism to cause a continuous feeding movement of the grinding wheel, means to control said power means to produce a grinding feed, means to control said power means to produce a finishing feed, means including a limit switch to render said grinding feed control means operative, and means on said feed



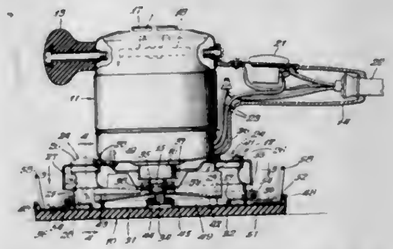
wheel for moving said pawl after a predetermined grinding feed and before the stop abutment engages said pawl to actuate said limit switch so as to reduce the infeed to a predetermined finishing feed.

2,639,564

OSCILLATING SANDER

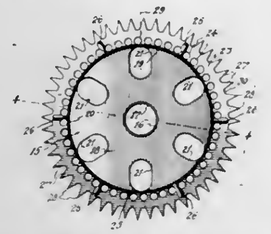
Kenneth C. Atkin, Muskegon, Mich., assignor to Clarke Sanding Machine Company, Muskegon, Mich., a corporation of Michigan

Application September 9, 1950, Serial No. 183,920
3 Claims. (Cl. 51—170)



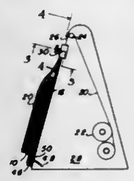
1. In a sanding machine, the combination of a frame, a vibratory sanding pad, and laterally yieldable mounting means consisting of a plurality of independent rubber posts interconnecting the sanding pad with the frame; said frame including a motor having a rotary driving shaft disposed perpendicularly to the sanding pad with a crank pin on said driving shaft in operative engagement with said sanding pad and an eccentric counterweight secured to the driving shaft adjacent the crank pin to compensate for the inertia of the sanding pad and reduce vibration of the motor housing; said counterweight including a centrifugal fan positioned adjacent one end of the motor and adapted to draw air therethrough, with upwardly directed flanges along the marginal edges of the sanding pad to direct the air discharged from the fan upwardly and outwardly away from the work.

2,639,565
BUFFING DEVICE
Frank P. Bitomley, East Orange, N. J.; Katherine Bitomley, executrix of said Frank P. Bitomley, deceased
Application January 26, 1950, Serial No. 140,629
10 Claims. (Cl. 51—193)



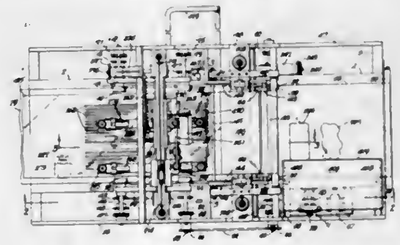
1. A rigid, integral, disc-like device suitable for use in connection with textile material to form a buffing wheel, comprising an inner portion of circular periphery having a centrally-located opening and at least one eccentrically-located opening, said latter openings being symmetrically and uniformly disposed around the central opening when present in a number greater than one, a wall portion making an angle of substantially 90° with and extending from the periphery of said inner portion, and an outer portion substantially parallel to said inner portion, teeth located around the outer periphery of said outer portion, said teeth being numerically integrally divisible by the number of said at least one eccentrically-located opening and being so located that the tip of the tooth located nearest the line drawn from the center of said central opening in the disc-like device through the center of any of said at least one eccentrically-located opening is a distance from said line equal to one fourth of the distance between adjacent tooth tips.

2,639,566
METHOD OF PACKAGING HANGERED GARMENTS
Charles B. Blessing, Oakland, Calif., assignor to Blessing Packaging Company, a corporation of California
Original application May 10, 1949, Serial No. 92,259. Divided and this application July 5, 1949, Serial No. 103,027
1 Claim. (Cl. 53—5)



The method of packaging a hangered garment which does not have sufficient rigidity to stand alone comprising supporting the garment on a hanger, said hanger being supported from a point below the lower level of the garment so that the garment is freely hanging in a vertical position and spaced above floor level, drawing a portion of tubular stock partially over both the hangered garment and the support for the garment from a length of tubular stock which is substantially longer than the desired enclosure, transversely severing edge portions to leave the stock unsevered in a central portion only, folding over the severed edge portions to close the severed edges, securing each folded over edge portion to the adjacent tubular stock to seal an end of the stock except at said unsevered central portion and form a bag about the article, drawing the so formed bag into place on the article and finally severing the unsevered central portion.

2,639,567
UNIVERSAL PACKAGING MACHINE
John P. Murdoch and Albert J. Faulhaber, Ardmore, Pa.
Application March 13, 1950, Serial No. 149,356
45 Claims. (Cl. 53—40)

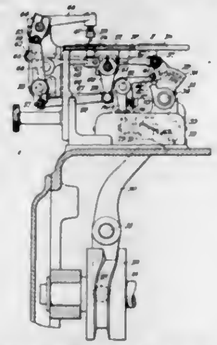


1. In an automatic packaging machine, a table, means for feeding a first web of sheet material along the length of said table and upon which articles are placed, said feeding means also transporting the articles through the machine, means for feeding a second web of sheet material in alignment with and over the first web of material and articles, means for measuring the length of said article at a predetermined station along the table, and pressure-sealing means responsive to the measuring means for joining the webs to each other at the leading and trailing edge of the article and in spaced relation thereto, whereby variable length articles may be wrapped automatically.

2,639,568
WRAPPING MACHINE
Leonard Brook, Beeston, Leeds, England, assignor to The Forgrove Machinery Company Limited, Leeds, Yorkshire, England, a company of Great Britain
Application April 29, 1952, Serial No. 284,995
In Great Britain April 25, 1951
5 Claims. (Cl. 53—45)

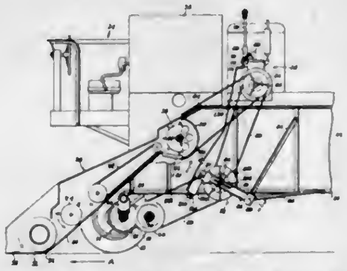
1. In a wrapping machine, comprising an electric motor for driving the machine, a movable heater, a conveyor, and means operated by said motor for intermittently moving said conveyor to traverse wrapped articles in succession past said heater, the combination with said heater of a driving member operated by said motor to perform forward and return strokes, a driven member linked to said heater, a spring operative on the forward stroke of the driving member to actuate the driven member to cause movement of the heater into contact with an article on the conveyor, means for positively returning said driven member on the return stroke of said driving member, a catch biased for movement to an operative position in which it prevents movement of said heater into contact with said article by

said driven member, and an electromagnetic device connected in circuit with said motor for re-



taining said catch in inoperative position so long as said motor is running.

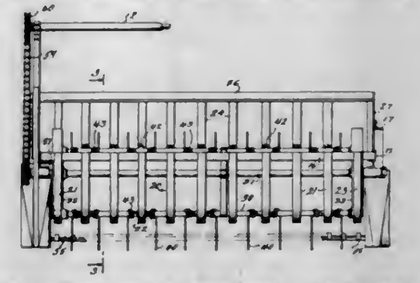
2,639,569
SELF-PROPELLED HARVESTER WITH AUTOMATICALLY CONTROLLED VARIABLE-SPEED DRIVE
Stanley F. Pasturczak, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 18, 1950, Serial No. 162,765
1 Claim. (Cl. 56—20)



A harvester, comprising: a main frame having traction means for advancing the main frame over a field; crop-handling means connected to the main frame for receiving crops from the field as the main frame advances; substantially constant-speed power means on the main frame; fixed-ratio drive means connecting the power means and the crop-handling means for driving the crop-handling means at a substantially constant speed; adjustable variable-ratio drive means connecting the power means and the traction means; and means operative in response to conditions imposing an increased load on the power means for automatically adjusting the variable-ratio drive means to reduce the speed of advance of the main frame.

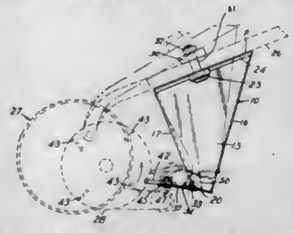
2,639,570
REEL FOR GATHERING LOW LYING CROP
George T. Greene, Bolivar, Tenn.
Application October 5, 1949, Serial No. 119,598
6 Claims. (Cl. 56—226)

1. In a crop harvesting machine, a supporting frame, a rotatable shaft carried by the frame, spaced supporting means secured to said shaft, a rock shaft carried by said spaced supporting means eccentric to said rotatable shaft, said rock shaft being supported for free rocking movement, spaced fingers carried by said rock shaft for bodily movement therewith around said rotatable shaft, said fingers moving beneath said rotatable shaft in a direction opposite to the direction of movement of said machine over the ground when said rotatable shaft is rotated, an arm carried by said rock shaft and extending



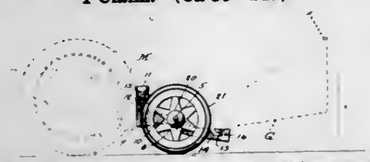
laterally therefrom adjacent one of said spaced supporting means for bodily rotation therewith about said rotatable shaft, and a stationary cam member carried by said supporting frame and positioned in the path of movement of said arm for engagement therewith to force said fingers outwardly relative to said rotatable shaft during the movement of such fingers adjacent the ground to pick up fallen stems on the ground, said cam member terminating rearwardly of said shaft whereby said fingers therebeyond are free to rock.

2,639,571
SPREADING ATTACHMENT FOR LAWN MOWERS
Richard N. Kelly, Anaconda, Mont.; Edna Mae Kelly, administratrix of said Richard N. Kelly, deceased
Application December 10, 1949, Serial No. 132,307
3 Claims. (Cl. 56—249)



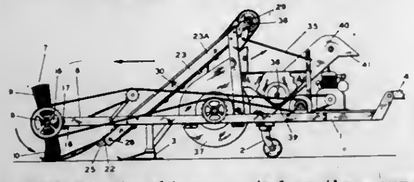
1. In a spreader attachment for use with a mower having a cutter assembly with a plurality of blades and a handle, the combination comprising a hopper, means for supporting the hopper from the handle rearward of the cutter assembly with the mower in its normal cutting position, a door spring-loaded to the closed position at the bottom of the hopper, an arm affixed at one end to the door, the arm being so disposed in relation to the cutter assembly that the blades of said assembly periodically strike the other end of the arm, thereby moving the door into an open position, a slotted grate in the hopper spaced above the door for supporting the material, and a plurality of agitator pins attached to the door and movable therewith and extending upwardly through the grate and movable in its slots.

2,639,572
ATTACHMENT FOR LAWN MOWERS
Charles J. Goeske, Henryetta, Okla.
Application January 21, 1952, Serial No. 267,374
1 Claim. (Cl. 56—249)



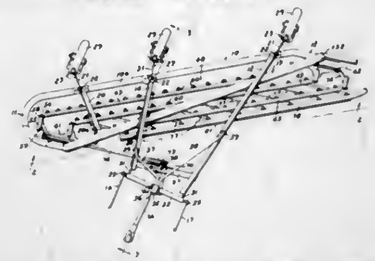
A lawn mower attachment comprising an elongated axle bolt, said axle bolt having a head formed with a non-circular portion, a wheel rotatably mounted upon said axle bolt at the opposite end of the bolt, said opposite end being threaded, said bolt having an opening, a cap nut threaded upon the last-named end of the bolt, a screw extending through the cap nut, passing into said opening, a bracket body rockably mounted upon the head end of the bolt, said bracket having an opening receiving the shank of the bolt and having a recess formed complementarily to the non-circular portion of the bolt head, whereby to prevent relative rotation between said bracket body and bolt, said bracket body being rockable with said bolt, an arm rigid with the bracket body and extending forwardly therefrom, an upstanding head rigid with said arm, said head having a vertical series of openings for attachment of the head to a side of a mower frame in selected positions of vertical adjustment, and a second arm rigid with the bracket body and extending rearwardly from said body, said last-named arm being downwardly offset from the bracket body and having means at its rear end adapted to receive a portion of a grass catcher.

2,639,573
NUT HARVESTING MACHINE
Alvin McLaughlin, Woodburn, Oreg.
Application May 8, 1950, Serial No. 160,763
3 Claims. (Cl. 56—328)



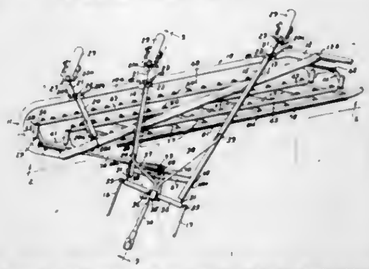
1. Means for brushing up nuts from the ground comprising a frame, brackets pivoted to the frame and extending therefrom, a shaft mounted in the brackets, diametrically disposed brushes, each brush having a flat head from which bristles extend, the heads of the oppositely disposed brushes fitting snugly against opposite surfaces of the shaft, spacer bars equal in thickness to the diameter of the shaft and fitted between opposite heads on opposite sides of the shaft, clamps binding the heads of the brushes and the spacer bars to the shaft, pins extending through the spacer bars and the shaft, means between the frame and the brackets for tilting the brushes to regulate surface contact of the ends of the bristles with the ground in the rotation of the brushes, and a series of spaced-apart tines extending downwardly from the frame to receive nuts swept up by the brushes, the free ends of the tines being in the path of rotation of the outer ends of the bristles.

2,639,574
SIDE DELIVERY RAKE
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application November 12, 1949, Serial No. 126,800
4 Claims. (Cl. 56—377)



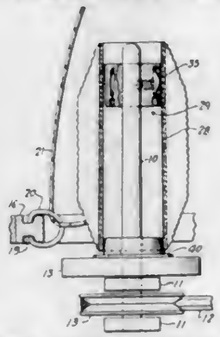
1. In a side delivery rake, a raking cylinder, means mounting said cylinder on the rake for rotation about a horizontal axis angularly disposed relative to the direction of travel of the rake, said raking cylinder comprising spaced rotatable head portions and a plurality of rake bars secured in a cylindrically spaced array between said head portions, each of said rake bars being cambered so that when stationary and in its lowermost position, the central portions of each rake bar lie closer to the axis of rotation of the raking cylinder than the end portions of such rake bar, the amount of said camber being proportioned relative to the normal speed of rotation of said rake bar so that said rake bar assumes a substantially straight configuration while passing through the lower portions of its path of rotation by the action of centrifugal force when rotated at said normal speed.

2,639,575
SIDE DELIVERY RAKE
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Original application November 12, 1949, Serial No. 126,800. Divided and this application February 7, 1951, Serial No. 209,727
5 Claims. (Cl. 56—377)



1. A side delivery rake comprising a bottom frame element of substantially C-shaped configuration in a horizontal plane, an inverted U-shaped upright frame element having its ends respectively secured to spaced regions of said bottom frame element, a generally horizontal stub axle mounted on the medial portion of each upright arm of said inverted U-shaped upright frame element, each of said axles being parallel to the other and projecting into the space defined by said bottom and upright frame elements, and a raking cylinder having its opposed head members respectively rotatably journaled on said stub axles.

2,639,576
SPINDLE ADAPTER FOR HIGH-SPEED STRAND TWISTING MACHINES
Ernest Bay, Saylesville, R. I., assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application September 12, 1951, Serial No. 246,189
3 Claims. (Cl. 57—130)



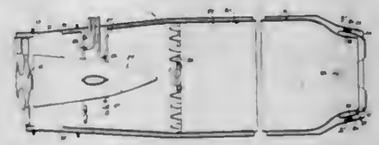
2. A spindle adapter for a high speed twisting machine having an elongated spindle that comprises, a generally cylindrical body removably mounted on said spindle, said body having a plurality of peripheral, axially extending slots with an undercut socket at each end of each slot, a resilient bowed clip mounted in each of said slots and extending radially therefrom with its ends in said sockets, there being an axial bore in said body intersecting one end of said slot, a screw threaded in said bore and bearing against one end of said clip for varying the degree of bowing of said clip and thus for varying its radial extent from said slot and means for retaining said adapter on said spindle.

2,639,577
NOVELTY CLOCK DEVICE
Sylvan M. Lubin, Spokane, Wash.
Application October 26, 1951, Serial No. 253,369
5 Claims. (Cl. 58—45)



1. A novelty clock device adapted to be suspended in front of an upright wall surface on which the commonly used hour and minute indications are provided, said device comprising a supporting frame, a ring journalled for rotation in a vertical plane on said frame, said ring being weighted to cause it to return to the same position after rotation, a time indicating hand rotatably mounted on the ring, said hand having a pinion and said ring having a circular row of gear teeth thereon engaged by the pinion, and power means on the hand for driving the pinion.

2,639,578
COMBUSTION PRODUCTS REACTION MOTOR WITH VARIABLE AREA EXHAUST NOZZLE
Walter D. Pouchot, Prospect Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1950, Serial No. 152,885
3 Claims. (Cl. 60—35.6)

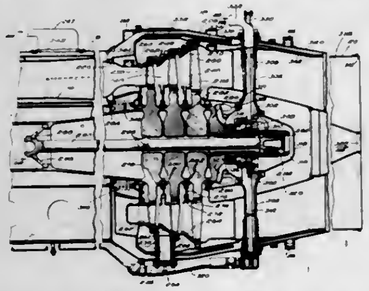


2. In a power plant for jet propulsion of aircraft, a tubular inner casing defining a combustion chamber terminating in an exhaust nozzle; a tubular outer casing encompassing the inner casing and spaced radially therefrom to define therebetween a circumferentially-continuous flow path for cooling gases; a plurality of nozzle-restricting elements mounted in the said flow path inwardly of said tubular outer casing and outwardly of said tubular inner casing for pivotal movement between a first retracted position where the nozzle effective area is maximum and a second extended position where the nozzle effective area is materially reduced, said nozzle-restricting elements being spaced from both the inner and outer casings; and means sealing the space between the nozzle-restricting elements and the outer casing, whereby cooling gases moving through the circumferentially-continuous flow path are forced to exit therefrom through the space between the nozzle-restricting elements and the inner casing.

2,639,579
TURBOJET ENGINE HAVING TAIL PIPE EJECTOR TO INDUCE FLOW OF COOLING AIR
Andrew V. D. Willgoos, deceased, late of West Hartford, Conn., by Hartford National Bank and Trust Company of Hartford, Conn., executor, assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Original application June 21, 1949, Serial No. 100,418. Divided and this application August 4, 1951, Serial No. 240,346
10 Claims. (Cl. 60—35.6)

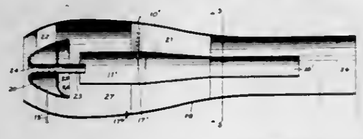
1. In a gas turbine power plant, a turbine including a rotor and a surrounding casing, a housing surrounding the casing, supporting means extending between the turbine casing and the housing for supporting the casing within the housing, a thrust nozzle through which gas from the turbine is discharged, and an exhaust duct connecting the turbine to the nozzle, in combination with at least one radiation shield located between and spaced from the turbine casing and housing and surrounding the casing, the down-

stream end of the shield being concentric to and closely spaced from the exhaust duct to define an ejector located within the duct upstream of



the thrust nozzle and communicating with the space between the shield and housing for maintaining a flow of cooling air therethrough.

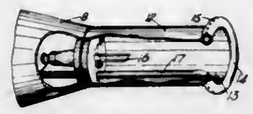
2,639,580
VALVELESS PULSE JET ENGINE
James L. Stuart, Sewickley, Pa.
Application March 21, 1945, Serial No. 583,965
11 Claims. (Cl. 60—35.6)



4. A jet propulsion motor including a tubular body having an inlet end, an open outlet end and a combustion chamber therebetween, a fuel reservoir at said inlet end having a wall arranged across said body, said body at said inlet end outwardly of said wall having an inturned funnel, wall structure extending from the outer portion of said funnel inwardly to said wall cooperating with the latter and said funnel to form said reservoir, said funnel providing an orifice through said reservoir with its inner extremity opening through said inner wall and thereby communicating with the combustion chamber, said orifice being open to the atmosphere at said outer portion, nozzle means for projection of fuel from the reservoir into the line of air passage to the combustion chamber, said combustion chamber having a main portion and a rear portion progressively decreasing in cross-section toward said outlet end, and fuel ignition means in said main portion of the combustion chamber.

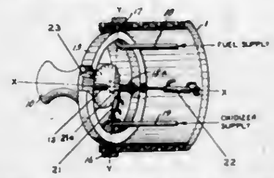
2,639,581
APPARATUS FOR BURNING FUEL IN A HIGH VELOCITY GAS STREAM
Henry Cohen and John Henry Hamilton Darth, Farnborough, England, assignors to Power Jets (Research & Development) Limited, London, England
Application November 26, 1945, Serial No. 630,950
In Great Britain September 14, 1944
18 Claims. (Cl. 60—35.6)

10. A combustion apparatus for burning fuel in a high velocity gas stream comprising a duct for carrying said stream, wall means within said duct defining a chamber having a closed upstream end and an open downstream end, said chamber defining a stabilized flame zone and



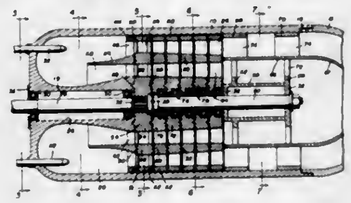
means for introducing fuel into said zone and into a free and unobstructed region of the stream.

2,639,582
MOUNT FOR REACTION MOTORS
Bernard Pearlman, Morristown, N. J., assignor to Reaction Motors, Inc., Rockaway, N. J., a corporation of New Jersey
Application December 7, 1950, Serial No. 199,673
6 Claims. (Cl. 60—35.55)



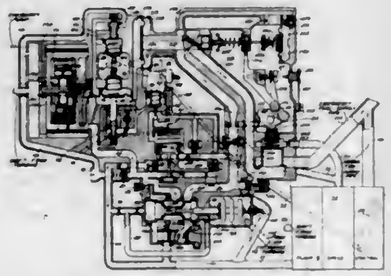
2. A motor mount for a reaction motor comprising a hollow ring to which said reaction motor is communicably attached by hollow pivots, pivots for said hollow ring located on its exterior and on a diametral axis of said ring which is substantially perpendicular to the axis of the said hollow pivots, and at least one conduit communicably attached to said hollow ring whereby propellant fed through said conduit will pass through said hollow ring and hollow pivots into said reaction motor.

2,639,583
CONTRAROTATING GAS TURBINE HAVING A POWER TURBINE AND A PLURALITY OF COMPRESSOR-TURBINES IN SERIES
Harry C. Steele, Ashland, Ky.
Application June 25, 1947, Serial No. 756,898
3 Claims. (Cl. 60—39.16)



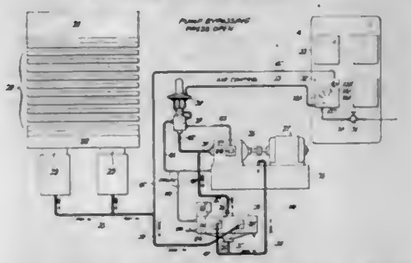
1. A turbine comprising a casing, a sleeve carried by said casing and extending axially thereof and defining therewith an annular combustion chamber therein, a power shaft journaled in said axial sleeve and having a first turbine rotor fixedly secured thereto, vanes on said first turbine rotor registering with said combustion chamber, a rotor shaft, means mounting said rotor shaft in said casing in end-to-end spaced alignment with said power shaft, a plurality of turbine rotors each journaled upon said rotor shaft in side-by-side relation for independent rotation, vanes on each of said plurality of rotors registering with the vanes of said first rotor, the vanes on adjacent rotors of said plurality of rotors being reversely inclined for a continuous direction of fluid flow whereby adjacent rotors are rotatable in opposite directions, said rotor shaft and plurality of rotors constituting a unitary removable assembly in said casing, the vanes of said first rotor and of said plurality of rotors being disposed in inner radial sets of registering compressor vanes constituting a fluid inlet supply means for said combustion chamber and outer radial sets of registering turbine vanes comprising fluid exhaust means for said combustion chamber, means for supplying fuel to said combustion chamber, said rotor shaft mounting means having concentric annular passages each registering with one of said radial sets of vanes, said casing having concentric fluid inlet and outlet passages at one end thereof registering with said concentric annular passages.

2,639,584
EMERGENCY FUEL SUPPLY SYSTEM
Carl F. Schorn, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application May 15, 1948, Serial No. 27,187
12 Claims. (Cl. 60—39.28)



11. The combination with a prime mover having a normal speed responsive means driven by said prime mover for admitting normal motive fluid fuel thereto under pressure and also for regulating the flow of said fluid fuel, manual means for varying the speed at which the normal speed responsive means controls the flow of normal fluid fuel to said prime mover, a first escape passage and valve therein for releasing the pressure of said normal motive fluid fuel, an emergency speed responsive means driven by said prime mover for substituting emergency motive fluid fuel for normal motive fluid thereto under pressure and also for regulating the flow of said emergency fluid fuel, second manual means interconnected with first manual means for varying the speed at which the speed responsive means controls the flow of the emergency fluid fuel, a second escape valve for releasing the pressure of said emergency motive fluid fuel, a hydraulic governor for said first and second escape valve, comprising means for developing a variable fluid pressure varying as the square of the speed of said prime mover, a pilot valve, means for moving said pilot valve in opposition to means responsive to said variable speed responsive fluid pressure for moving said pilot valve to open said first escape valve and to close said second escape valve whenever the normal regulation means fails to maintain the speed of the prime mover up to the speed selected by said manual means.

2,639,585
HYDRAULIC PRESS CYCLE CONTROL SYSTEM
Louis A. Camerota, Burlington, N. J., assignor to The Florence Pipe Foundry and Machine Company, Florence, N. J., a corporation of New Jersey
Application December 15, 1951, Serial No. 261,842
9 Claims. (Cl. 60—52)

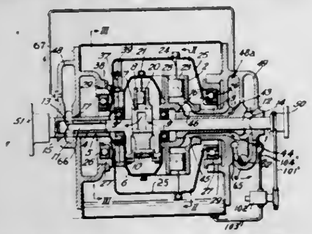


1. In combination, a hydraulic press having relatively movable heads and an actuating ram cylinder; a constant speed rotary pump having a stator and a relatively shiftable rotor, yielding means tending to shift the rotor into eccentric relation to the stator, and hydraulic pressure-responsive means for shifting the rotor in opposition to the yielding means to vary the output of the pump; piping between the ram cylinder of the press and the pump; an interposed master valve allowing, upon actuation, delivery of pressure fluid by the pump to the ram cylinder of the press to close the latter; and an automatic cycle control means operative, upon closing of the press, to thereafter govern the action of hydraulic pressure-responsive rotor-shifting means of the pump and so regulate the latter for imposition of prescribed variable pressures repeatedly upon the material under compression for a definite time interval, said control means including an auxiliary valve interposed in a branch conduit between the piping and the hydraulic pressure-responsive rotor shifting means of the pump, motor means tending to hold the auxiliary valve closed against the hydraulic pressure, and means for governing the motor means to allow the auxiliary valve to open when the prescribed pressure is attained.

2,639,586
ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION
Theodor Müller, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application August 29, 1947, Serial No. 771,316
In Switzerland May 15, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires May 15, 1962
5 Claims. (Cl. 60—53)

1. A hydraulic transmission comprising a stationary housing, axially aligned input and output shafts rotatably mounted in the housing, a pump unit including an eccentric rotor carried by said input shaft, a pump cylinder block journalled on said rotor for relative rotation therewith, said pump cylinder block being provided with radial cylinder bores, pump pistons reciprocating in said bores, a pump casing mounted for joint rotation with said pump cylinder block, said pistons having piston rods pivotally fastened to said casing, crank means interconnecting said pump cylinder block and

said pump casing, a motor unit including a motor cylinder block mounted for rotation with said output shaft, said motor cylinder block being provided with radial cylinder bores, motor pistons reciprocating in said cylinder bores, bearing means surrounding said aligned input and output shafts and mounted in said stationary housing for sliding movement transversely to the axis of rotation of said shafts, a motor casing rotatably mounted on said bearing means, said motor piston having piston rods pivotally fastened to said motor casing, said pump unit and said motor cylinder block being arranged side by side in close proximity to each other within said motor casing, the pump casing and the motor cylinder block being connected to form



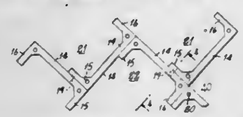
a single structure rotating as a whole, means operative for transversely moving said bearing means carrying the motor casing to control the eccentricity of the motor casing relatively to the axis of rotation of said input and output shafts, linkage means operatively connecting the motor casing to said structure to provide for synchronous rotation of said structure and motor casing upon a change of eccentricity of said motor casing, said pump cylinder block and said motor cylinder block being provided with ports for admitting and discharging working fluid to and from said radial cylinder bores, and working fluid conduits for connecting the outlet from the pump cylinders to the inlet of the motor-cylinders and the inlet of the pump cylinders to the outlet of the motor cylinders.

2,639,587

PROTECTION OF BEACHES FROM EROSION

David Homer Hayden, Sarasota, Fla., assignor to Beach & Shore, Inc., New York, N. Y., a corporation of New York

Application October 12, 1949, Serial No. 120,885
2 Claims. (Cl. 61—4)



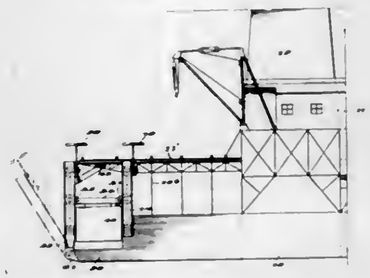
2. A breakwater wall comprising, in combination, a plurality of stacks of discrete elements, each stack comprising a plurality of elements superposed one on the other and flexibly connected together to form the stack, said elements comprising an elongated body portion and portions at each end of the body portion integral with said body portion and extending at an angle thereto, the end portions of said elements of one stack lying parallel and adjacent the body portions of the elements of the adjacent stack, and the stacks being flexibly interconnected by connecting means extending between said last mentioned parallel and adjacent end and body portions of neighboring stacks.

2,639,588

BARGE FOR OFFSHORE WELL DRILLING

Leslie B. Durant and William E. Padel, New Orleans, La., assignors to Alexander Shipyard, Inc., New Orleans, La., a corporation of Louisiana

Application March 22, 1948, Serial No. 16,378
7 Claims. (Cl. 61—46)



1. A barge for offshore prospecting comprising a submergible hull, at least one buoyant hull section movably connected to said hull, at least one pair of upright members positioned on opposite sides of said hull section, a threaded shaft rotatably carried by each upright member, a nut carried by each of said shafts and secured against rotation so as to be elevated upon rotation of the shaft in one direction and lowered upon rotation of the shaft in the opposite direction, a transverse member for each pair of upright members, said transverse member being positioned above said hull section, connections between each transverse member and the nuts of its pair of upright members, and means for rotating said shafts to lower said transverse member relative to the barge and thereby to raise the portion of the barge adjacent to said hull section, and to raise said transverse member relative to the barge and thereby to lower the adjacent barge portion.

2,639,589

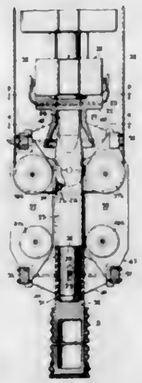
METHOD AND APPARATUS FOR DRIVING PILE SHELLS

Edward A. Smith, Chatham, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey

Application February 28, 1952, Serial No. 273,920
13 Claims. (Cl. 61—78)

1. In apparatus for "shelling up" pile shells with a driving core and for driving such shells, the combination comprising: a pile driver having a pair of leads; a driving hammer assembly slidably mounted on said leads; a sheave frame beneath said assembly and suspended therefrom; a messenger plug having sheave means thereon and adapted to be suspended at varying elevations within said frame and therebelow along the vertical center line of the hammer, said plug also having means thereon for detachable connection with a pile shell driving core; and a plurality of sheaves on said frame at each side of said center line for directing cable means downwardly along the hammer assembly, thence from one side of said frame to the other side and back up along the hammer assembly, the messenger plug being suspendable at said varying elevations by such cable means coming into engagement with the sheave means on the plug, and

whereby the plug may be lowered through a pile shell suspended thereunder, for connection with



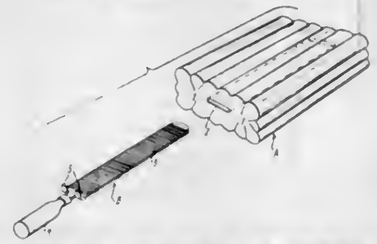
a core, and then raised to pull the core up into the shell.

2,639,590

MEANS FOR DEFROSTING REFRIGERATORS

Andrew G. Schramm, St. Louis, Mo.

Application October 14, 1949, Serial No. 121,263
2 Claims. (Cl. 62—1)



2. Means for defrosting a refrigerator comprising a defrosting element having fluted surface portions the channelways of which extend longitudinally of said defrosting element, said defrosting element being adapted to be heated to a high temperature exteriorly of the refrigerator to be defrosted and being provided with an opening formed therein and extended from end to end thereof, and a tool for handling said defrosting element when heated, said tool comprising a blade adapted for introduction into the opening of the defrosting element, and a heat-insulating handle at an end of said blade.

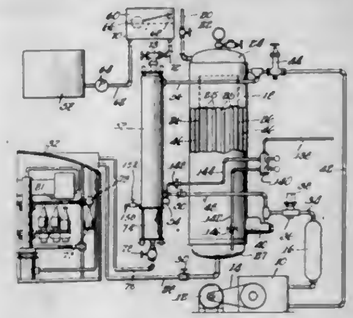
2,639,591

LIQUID COOLING APPARATUS

Harry G. Mojonnier, Oak Park, Ill., assignor to Mojonnier Bros. Co., Chicago, Ill., a corporation of Illinois

Application April 29, 1948, Serial No. 24,012
12 Claims. (Cl. 62—3)

1. A refrigerating apparatus comprising a first evaporator unit, means for circulating water to be cooled therethrough, a second evaporator unit, means for circulating syrup to be cooled therethrough, and a common refrigerant system effecting the cooling of both evaporator units, said refrigerant system including means for proportioning the delivery of refrigerant to said evaporator units, and a common back pressure valve



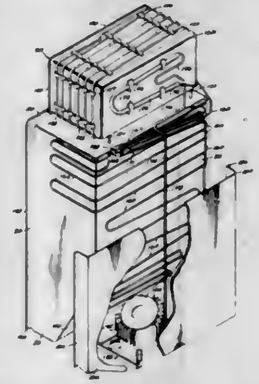
for controlling the refrigerant temperature within said evaporator units.

2,639,592

REFRIGERATOR HAVING REFRIGERANT COOLED LINER

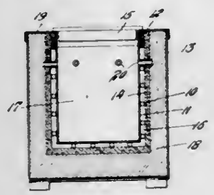
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Original application September 22, 1948, Serial No. 50,472. Divided and this application November 9, 1949, Serial No. 126,371
7 Claims. (Cl. 62—95)



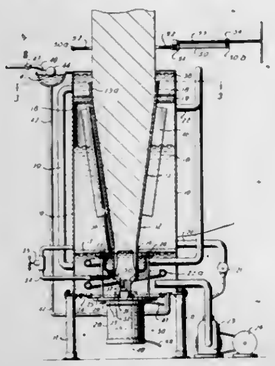
1. In refrigerating apparatus, a compartment forming liner having top, bottom, side and rear walls, a secondary refrigerating system having a refrigerant evaporator coil extending sinuously along said rear wall substantially throughout its height having a group of widely spaced runs near the bottom of the rear wall and a group of closely spaced runs near the top of said liner extending along an upper portion only of said side walls adjacent said top wall, a primary refrigerating system having a refrigerant evaporator carried by the top wall of said liner and a portion forming a condenser for said secondary refrigerating system evaporator coil, and a secondary condenser connected with said secondary system evaporator coil and being arranged in heat exchange relationship with said portion of the primary refrigerating system evaporator.

2,639,593
REFRIGERATOR INSULATION
Ragnar Edvard Deutgen, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application October 23, 1945, Serial No. 623,983
In Sweden November 6, 1944
23 Claims. (Cl. 62—99)



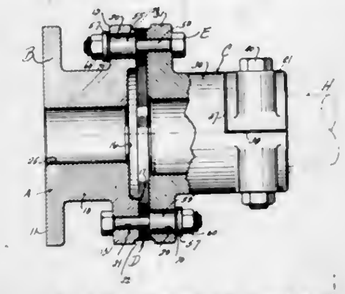
1. Refrigeration apparatus including structure defining a space to be cooled, cooling means to effect cooling of said space, a first body of material disposed about said space which is substantially impervious to moisture and provides such an insulating effect that the outer surface thereof during normal operation of said cooling means will be maintained at a temperature exceeding by only a few degrees the lowest temperature produced in said space, and means including a body of thermal insulation disposed about said first body which is permeable to air and in communication with said space to permit movement of air therebetween.

2,639,594
FREEZING MACHINE
John R. Watt, Austin, Tex.
Application August 10, 1949, Serial No. 109,600
6 Claims. (Cl. 62—106)



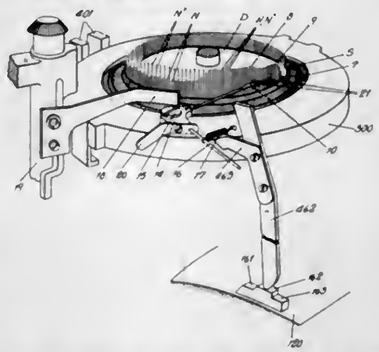
1. In a freezing machine a freezing cell having a flared wall section merging at its small end with a wall section formed parallel to the central longitudinal axis of the cell adapted to receive and guide a reciprocally mounted plunger, means for refrigerating the flared wall section and the closely adjacent portion of the plunger guide section, means for selectively refrigerating an intermediate portion of the plunger guide section and means for heating the portion of the guide section in which the plunger resides when in its position most remote from the flared portion.

2,639,595
THRUST COUPLING
Glenn C. Werner, Warren, Pa.
Application June 10, 1946, Serial No. 675,741
5 Claims. (Cl. 64—13)



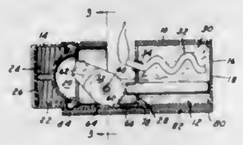
1. In a flexible coupling for drive and driven shafts permitting angular shaft misalignment, the combination of a pair of shaft connecting coupling parts having portions with transverse aligning openings therein, a flexible disc structure, and bolt means connecting said flexible disc structure with said coupling parts thru the openings of the coupling parts, said bolt means comprising an elongated bolt having a head on one end and a nut on the other, and a flanged sleeve on the bolt between the nut and head of a nature to be clamped by movement of the nut on the bolt against the flexible disc structure and when in such position the flange of said sleeve being spaced slightly from an adjacent contact surface of an adjacent coupling part for contact with said coupling part upon movement of said coupling part along said sleeve away from the other coupling part.

2,639,596
CIRCULAR KNITTING MACHINE HAVING A LATCH LIFTER AND METHOD OF OPERATING SAME
Grover C. Parham, Dalton, Ga., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application March 28, 1950, Serial No. 152,340
16 Claims. (Cl. 66—111)



1. An automatic stocking knitting machine having a rotary circle of independent needles with pivoted latches and a stitch cam for casting loops off the needles, in combination with latch lifting means comprising a blade adapted to be moved to and from an operative position at or near the shanks of the needles to raise latches to a position not substantially above the horizontal position and only partially toward closed position during and after the transfer, and means to control the position of the latch lifting means.

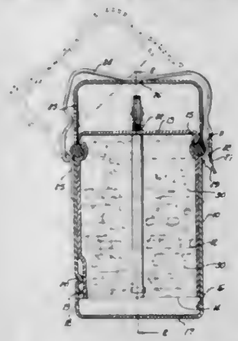
2,639,597
LIGHTER
Willard F. Wagner, Detroit, Mich., assignor of one-half to Charles W. Glenn, Centerline, Mich.
Application December 23, 1949, Serial No. 134,643
3 Claims. (Cl. 67—7.1)



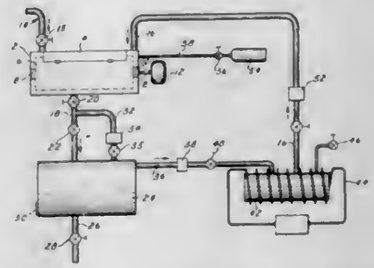
1. In a lighter, the combination of inner and outer telescoping casing members forming a flame chamber therebetween, said casing members having relatively large apertures on one side thereof which are in registration with one another to open the flame chamber when the members are at one position of their telescopic movement and which are out of registration with one another to substantially close the chamber when the members are at another position of their telescopic movement, means responsive to the movement of said members in the direction of said aperture registered position to produce a flame in the chamber, said casing members having relatively small ports on the side thereof opposite to said apertures which cooperate in reverse order to the apertures and register with one another when the members are in chamber closed position and are out of registration with one another when the members are in chamber opened position, said ports in their registered position providing a flow of air between the substantially closed chamber and the outside of the casing, and an elongated shield carried by the outer casing member and extending along the outside thereof in spaced relation to its outer surface to form an air passage, said shield overlying the port in the outer casing member and providing communication between the port and the passage for the flow of air into and out of the flame chamber when the latter is substantially closed.

2,639,598
CIGARETTE LIGHTER CASE
John L. McCracken, Erie, Pa.
Application March 26, 1951, Serial No. 217,469
2 Claims. (Cl. 67—7.1)

1. A cigarette lighter case comprising an outer member having an open top and a closed bottom, an inner member fitted in the outer member, a resilient band carried by the inner member and engaging the outer member to constitute a resilient yieldable and compressible buffer and seal therebetween, the inner member having a closed top and an open bottom, a lighter fluid saturated absorbent filler within said inner member, a compressible wick carried by said inner member and extending into said saturated absorbent filler, an igniter carried by said inner member adjacent the wick for igniting the wick, said member being movable inwardly within the outer member under pressure counter to and against said resilient band to force compressed gas which is present in the fluid out between the wick and the wick aperture and to thereby facilitate ignition of the wick as the igniter is actuated, the resilient band being adapted to be compressed as the inner member is pressed inwardly of the outer member by an operator, and providing an automatically expanding means to expand when pressure is relieved by an operator to automatically move the inner member outwardly of the outer member to its normal position.

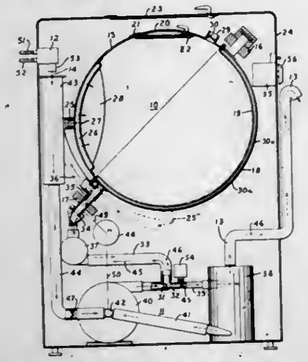


2,639,599
CLOSED SYSTEM DRY CLEANING APPARATUS UTILIZING VOLATILE SOLVENT
Walker L. Wellford, Jr., Memphis, Tenn.
Application September 7, 1949, Serial No. 114,351
6 Claims. (Cl. 68—18)



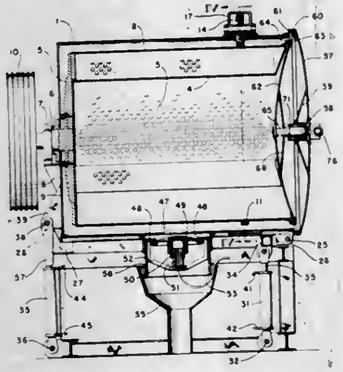
1. A closed dry cleaning system comprising a sealable work vessel, means for agitating work in said work vessel, a sealable receiving vessel, first conduit means connecting said work and receiving vessels whereby to pass said solvent from the work vessel to the receiving vessel, a vapor pump in said first conduit means for pumping vapor from the work vessel to the receiving vessel, valve means in said first conduit means for preventing back flow from said receiving vessel to said work vessel, a closed storage vessel, a second conduit means connecting said receiving and storage vessels, a vapor pump in said second conduit means for pumping vapor from said receiving vessel to said storage vessel, means for transferring solvent through said second conduit means from said storage vessel to said work vessel and valve means in said second conduit means for preventing back flow of liquid from said storage vessel to said receiving vessel.

2,639,600
DOMESTIC APPLIANCE
Carel F. Abresch, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 8, 1949, Serial No. 126,159
7 Claims. (Cl. 68—21)



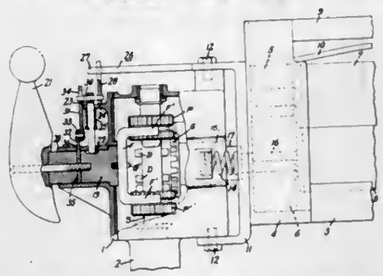
1. In combination an enclosure to be filled with and emptied of water; a jet pump having a low pressure jet chamber connected to said enclosure; a mechanical pump discharging into said jet pump; a liquid and gas separator connected to the discharge of said jet pump and intake of said mechanical pump to form a working fluid recirculating cycle; a valve controlling the flow between said jet pump and separator selectively to fill or empty said enclosure condult means connecting the interior of said enclosure with the atmosphere outside said enclosure to admit air and a vacuum breaker valve for completely closing said conduit means.

2,639,601
SWINGABLE DOOR FOR TUMBLER TYPE CLOTHES WASHING MACHINES
Herman Miller, Detroit, Mich.
Application December 15, 1949, Serial No. 133,091
3 Claims. (Cl. 68—139)



1. A washing machine comprising a horizontally disposed cylindrical tank having an open end, a perforated cylindrical container rotatable within the cylindrical tank and having an open end the diameter of which is substantially equal to the diameter of the perforated container, means for rotating the cylindrical container, a composite door forming a separate closure for the open end of the cylindrical door and the cylindrical container, a horizontal bar attached to the center of the door, arms engaging opposite ends of the bar and pivotally attached to the sides of said tank, and hydraulically operable means for swinging the arms to open the composite door and elevate the door above the openings of said cylinder and tank.

2,639,602
EMERGENCY DECLUTCHING MECHANISM FOR CLOTHES WRINGERS
Samuel I. Gabrielson, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application October 30, 1951, Serial No. 253,825
4 Claims. (Cl. 68—269)

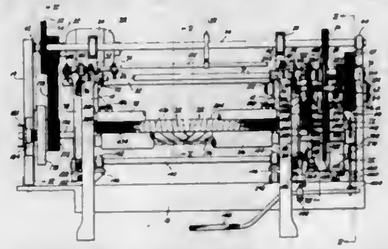


1. In a clothes wringer, the combination of a wringer head, frame means swingably carried thereon, wringer rolls journaled in said frame means, drive mechanism within said head and including gear shift mechanism for driving said rolls, means for operating said gear shift mechanism from neutral to a driving position, including a rotary shift actuator and handle means for effecting a rotation of said actuator, a detent carried by said wringer head for rectilinear movement therein, said detent engaging with said rotary actuator for releasably securing said gear shift mechanism in driving position, and means for withdrawing said detent for return of said actuator to neutral and for returning said actuator to neutral, comprising a member having a body portion extending in a plane parallel to the path of movement of said detent and a base portion carried by said wringer head to pivot in either direction thereon, pin means pivotally interconnecting said detent and said body portion, a lever extending from said frame means and engaging said body portion to enforce rotation of said detent withdrawing means upon swinging said frame means relative to said head thereby to withdraw said detent to release said actuator, and linkage mechanism mechanically interconnecting said pin means with said actuator to return said actuator to neutral after said pin means has withdrawn said detent.

2,639,603
HIDE AND SKIN WORKING MACHINE EMPLOYING ROTATING ROLLS
Robert F. Whitney, Winchester, Mass., assignor to The Turner Tanning Machinery Company, Portland, Maine, a corporation of Maine
Application August 22, 1951, Serial No. 243,101
14 Claims. (Cl. 69—42)

1. A machine for treating hides and skins comprising a frame, a rotatably bladed work treating

roll mounted in fixed bearings on said frame, a feed roll resiliently mounted in spaced and parallel relation to said treating roll, a shaft mounted in the frame above and parallel to said treating roll, two swingable arms depending from said shaft, a bed roll and a pinch roll mounted



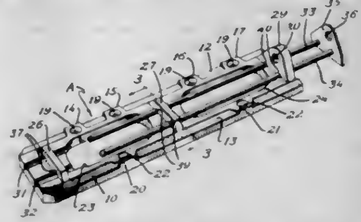
on the said two arms to swing therewith as a unit toward and from said work treating roll, said feed roll being arranged to coact with and be inserted between the pinch roll and the bed roll when the said unit is swung into "closed" position resulting in a "long grip" on a work piece draped over the pinch roll.

2,639,604
OUTBOARD MOTOR LOCK
Walter A. Wardius, Milwaukee, Wis.
Application August 14, 1950, Serial No. 179,156
3 Claims. (Cl. 70—58)

1. An attachment for preventing loss and theft of outboard motors from a boat comprising a guard plate rigidly secured to the transom of a boat against which the clamp screws of the stern bracket of an outboard motor are adapted to engage, a flexible cable secured at one end to the guard plate adapted to be passed over the clamp screws of the stern bracket, a stud on said guard plate, an eye rigidly carried by the free end of the cable for receiving said stud, and a movable cover latch carried by the guard plate for engaging over the stud and eye in one of its positions.

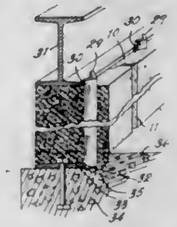
2,639,605
OUTBOARD MOTOR LOCK
Woodrow K. Knutson, La Crosse, Wis.
Application February 2, 1951, Serial No. 208,999
9 Claims. (Cl. 70—58)

1. A locking device for use in conjunction with an outboard motor having a pair of spaced clamping screws provided with clamping plates on their extremities, the device comprising an elongated plate having a pair of apertures extending therethrough of a size proper to accommodate said clamping plates, and a pair of arms slidably supported by said body for slidable movement over said apertures, said bars being designed to straddle the clamping members out-



wardly of said clamping plates to hold said clamping plates engaged in said apertures.

2,639,606
PRECAST REINFORCED MASONRY WALL
Maurice Boss, Jr., and Orrie Boss, Grand Rapids, Mich.
Application January 3, 1947, Serial No. 720,054
3 Claims. (Cl. 72—16)



1. A building construction in combination with a footing having a metal sill secured to the upper surface thereof, said building construction comprising a plurality of interlocking wall units and extending the full height of the wall, metal reenforcing stud members of angle shaped cross section positioned within the body of said wall units and closer to the inner surface thereof, said stud members extending beyond the ends of said wall units, and a plate of I-beam cross section supported upon the top of said wall units, the upper ends of said studs being welded to the inner edge of said I-beam, the lower ends of said studs being welded to the inner edge of said sill, the inner edge of said footing being beveled to permit access to the lower ends of said studs, the body of said wall units being made of concrete with a vermiculite aggregate.

2,639,607
PREFORMED TILE AND BEAM FLOOR CONSTRUCTION
Charles L. Sanford, Meadville, Pa.
Application October 3, 1949, Serial No. 119,241
5 Claims. (Cl. 72—68)



1. In a floor or roof structure, spaced beams of inverted T-form in cross-section, each having

a relatively deep channel extending along the upper edge of the vertical arm thereof, joist units interposed between and supported on the side flanges of said beams, the side walls of said channel having recesses spaced along the same, headed fastening elements seated horizontally in said recesses with the heads thereof disposed within the channel and their shanks engaged with the adjacent ends of said joist units, said joist units having their top and bottom edges provided with spaced notches, nailing strips seated in said notches flush with the surfaces of the said edges, a reticulated lamination disposed over the tops of said joist units and said strips and secured thereto, and a plate of nailable cementitious material supported on said lamination.

2,639,608

BRICK AND TILE LAYING MACHINE

John D. Kirschmann, Regent, N. Dak.

Application June 17, 1948, Serial No. 33,471

4 Claims. (Cl. 72—129)



1. In a brick laying machine, a frame comprising a pair of side walls for embracing the topmost course of a brickwork construction, support members for supporting said side wall members upon the top of a lower course of brickwork, inwardly extending flanges on said side wall members for supporting and positioning an additional course of brickwork above said top course, said side wall members having clamps slidable longitudinally thereon, said support members being carried by said clamps.

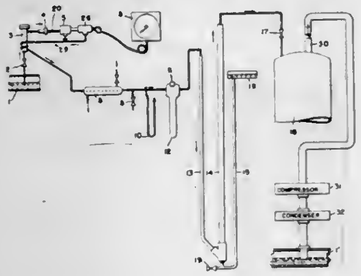
2,639,609

APPARATUS FOR DETERMINING BOILING POINTS

Frederick L. Shands, Newburgh, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, a corporation of Delaware

Application June 3, 1947, Serial No. 752,197

2 Claims. (Cl. 73—17)



1. Apparatus for determining the boiling temperature of crude products in a chemical process comprising means for withdrawing a sample portion under pressure from the process, a dryer for removing excess water, means for removing solid and foreign particles, means for reducing the pressure to a substantially constant predetermined point where partial vaporization occurs, means for determining the boiling point of the sample, means for circulating the cooler, partially vaporized expanded material in indirect heat exchange relation with the entering sample material to reduce its temperature, means for completely vaporizing the residual liquid of the sample, means for registering a pressure differential to indicate the rate of flow of the vapors, and a constant pressure controlling and releasing means for maintaining the aforesaid predetermined pressure and for returning the sample to the process.

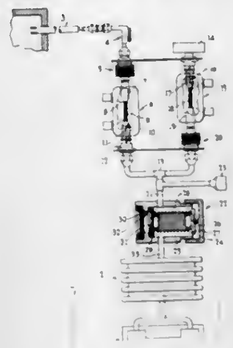
2,639,610

FURNACE ATMOSPHERE INDICATOR

Edward P. Anderson, Teaneck, N. J., assignor to Charles Engelhard, Incorporated, East Newark, N. J., a corporation of New Jersey

Application January 8, 1948, Serial No. 1,102

3 Claims. (Cl. 73—27)



1. An apparatus for determining the functional potential of a gaseous atmosphere composed of at least one gas of the group consisting of oxidizing gases and reducing gases in comparison with air, said apparatus comprising in combination a pump for maintaining a flow of gas from a gas source through a plurality of cells, an expanding gas dome positioned between said cells and said pump for reducing fluctuations in gas flow due to pump characteristics, a valve positioned between said gas dome and said cells for regulating the flow of gas through said cells, each of said cells comprising a tube for the passage of gas through said cells, an electrical resistance heating means wound on said tube, a chamber positioned at each end of said tube and formed by an envelope surrounding said electrical resistance means, a capillary bleed positioned in said chamber for metering the flow of gas through said tube, a bridge circuit connected to said electrical resistance means forming two arms of said circuit, one of said cells being connected to a source of said atmosphere, another of said cells being connected to a source of air, said cells being held in position within said apparatus by means of an expanding tube seat allowing easy removal of said cells from said apparatus, a meter connected in said circuit for indicating the relative potentiality of said atmosphere in comparison with air.

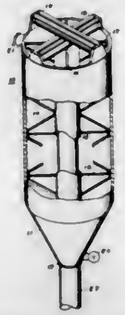
2,639,611

DEAD WEIGHT TANK FOR TESTING THE BEARING VALUE OF A COLUMN

Irwin Wyland Alcorn, Houston, Tex., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application December 7, 1948, Serial No. 63,982

4 Claims. (Cl. 73—84)



2. A testing apparatus comprising, a vessel symmetrical about its vertical axis, a sleeve member of substantially smaller cross section than said vessel extending substantially the entire distance between the vertically spaced extremities of said vessel and aligned with the axis of symmetry of said vessel, said sleeve member being adapted to engage slidably a column, and means adjacent the upper extremities of said sleeve for supporting the apparatus longitudinally upon the terminal section of a substantially vertical column to apply a load thereto.

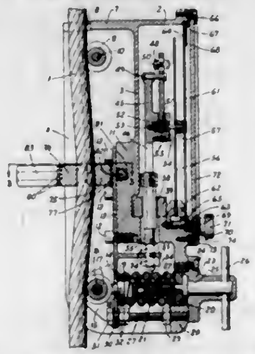
2,639,612

DIFFERENTIAL TENSIOMETER

Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Houston, Tex., a corporation of Texas

Application May 29, 1947, Serial No. 751,412

4 Claims. (Cl. 73—144)



1. A load indicator particularly adapted to measure changes in the tension of tool supporting cables in the drilling of a well which comprises, in combination, a rigid frame, a first abutment carried by the frame, a second abutment carried by said frame and spaced from said first abutment and including a releasable clamp adapted to frictionally engage a cable so as to support the indicator thereon, a third abutment spaced from the first and second abutments and out of alignment therewith so that when a cable is brought into engagement with all three abutments and clamped by said clamp a portion of the cable is deflected laterally, a flexible spring plate hinge having one of its ends fixed to the frame and its other end extending from the frame, said third abutment being mounted on said other end of the hinge, the hinge being stiffened along a major part of its length remote from the frame to prevent bending of said part, a spring between the frame and said other end of the plate urging the third abutment into misalignment with the first and second abutments, means for adjusting the urging force of said spring, stop parts carried by the frame, one on each side of said other end of the plate, limiting movement of the other end of the plate to be within a predetermined amount so that the plate hinge is protected from excessive fluctuations in cable tension, an indicating means carried by said frame, and connecting means between said indicating means and said other end of the flexible plate whereby movement of the flexible plate is transmitted to said indicating means.

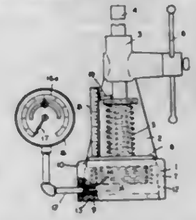
2,639,613

SPRING AND WEIGHT TESTING DEVICE

Walter Richmond, Cleveland, Ohio, assignor to Accurate Parts Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 10, 1947, Serial No. 721,217

5 Claims. (Cl. 73—161)



4. In a device of the character described, a base frame comprising a lower annular housing portion and an upper arbor-mounting portion, an arbor in said latter portion movable in a vertical plane, fluid-filled means providing a cooperating yieldable platform in relation to said arbor including a bellows with a corrugated tubular member having top and bottom closure plates for the ends thereof, said top plate forming the top wall and the lower plate forming the bottom wall of the bellows, stop means overhanging the top plate to limit movement thereof, a conduit in the lower plate connecting from the outside to the interior of the bellows, and an indicating gauge connected to said conduit.

2,639,614

THERMOMETER CASE WITH MEANS FOR SWINGING THE SAME

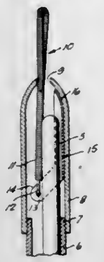
Roy L. Papermaster, Beverly Hills, Calif.

Application September 9, 1948, Serial No. 48,438

8 Claims. (Cl. 73—373)

1. In a thermometer case, a pair of case sections having means by which they may be secured together, one of said sections having a closed end provided with an opening, a coil spring having its respective end portions doubled back upon themselves to form a loop and extended through said opening and attached at their ends to said one

section interiorly thereof, said loop projecting exteriorly beyond the end of said one section to provide a handle to be grasped between the thumb and forefinger and held tightly while the case is swung in a generally circular path, the respective sides of said loop being adapted to alternately

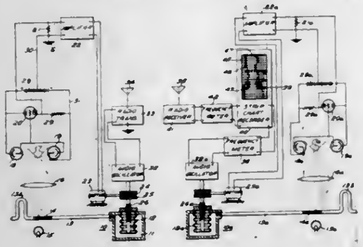


increase and decrease the amount of their distension as the result of the movement of the case in said generally circular path while the extremity of said loop is held against rotation, whereby to induce in said case a vibrating or jerking movement for developing periodically, maximum stages of centrifugal force in said case and its contents.

2,639,615
BAROMETRIC MEASUREMENT OF ELEVATION

Dayton H. Clewell and Carl F. Rust, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application March 11, 1947, Serial No. 733,888
3 Claims. (Cl. 73—384)

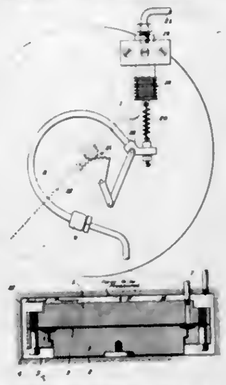


1. A system of determining differences in elevation between two stations by means of barometric pressure comprising barometric pressure responsive devices, at least one of said devices having adjustable means for making the reading of said one device the same as the other device to calibrate one of said devices with respect to the other when both are at the same altitude subjected to the same barometric pressure, means for transmitting barometric values between two stations spaced one from the other, and means for recording on a record chart for a time interval the barometric pressure values at both of said stations as respectively determined by said devices so that when said values at said stations over a time interval vary at substantially the same rate and in the same direction they may be subtracted to determine the elevation of one station with respect to the other unaffected by atmospheric changes in the barometric pressures at said stations.

2,639,616
COMPENSATED PRESSURE GAUGE

Malcolm C. Tate, Stamford, Conn., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania

Application October 18, 1950, Serial No. 190,685
1 Claim. (Cl. 73—393)



A pressure measuring gage comprising, in combination, a Bourdon tube having a freely expansible tip end, a fluid pressure expansible bellows having one end fixed and the other end movable in a straight line in response to second pressure, a coil spring connecting the Bourdon tube tip to the movable portion of the bellows and being expansible in a straight line substantially along the axis of the spring, and said spring being prestressed so as to effect an initial preloading on the Bourdon tube whereby the action of the Bourdon tube may be modified by the second pressure.

2,639,617
METHOD FOR DETERMINING INSECT PARTS IN CEREAL FLOUR

Roger A. Larkin, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 3, 1952, Serial No. 297,189
6 Claims. (Cl. 73—432)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method for determining contaminants in cereal flours comprising removing the starch and cereal protein from a given sample of flour and treating the separated residual matter with a 0.020–0.030 percent aqueous solution of Crystal Violet whereby to color insect part contaminants in a differential manner and subsequently determining the degree of said contamination by visual observation.

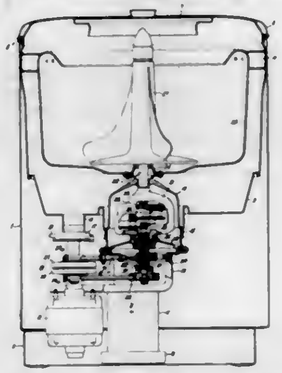
2,639,618
TRANSMISSION AND CLUTCH FOR CLOTHES WASHERS

Jacob W. McNairy, Westport, Conn., assignor to General Electric Company, a corporation of New York

Original application May 26, 1950, Serial No. 164,427. Divided and this application August 23, 1951, Serial No. 243,311
6 Claims. (Cl. 192—3.5)

1. In a washing machine of the type having a basket in which the clothes are washed and then

damp dried by rapidly rotating the basket, means including a gear frame for mounting the basket for rotation on a vertical axis, a fixed casing for said gear frame providing bearing means therefor, a shaft journaled in said casing and secured to said frame for rotating the same, a clothes washing means for oscillation within said basket, a gear train within said gear frame for effecting such oscillation, and shaft means for driving said gear train: the combination of a reversible drive motor fixed relative to said casing, a bi-directional clutch having a pair of driving

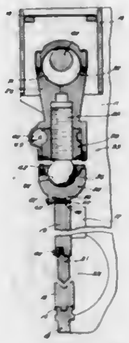


members arranged selectively to be connected to the drive motor according to the direction of rotation thereof, power transfer means connecting said clutch members respectively to the gear frame shaft and the gear train shaft for driving the same, and a snubber member pivotally mounted on said casing and biased angularly against said power transfer means of the gear frame shaft and positioned to prevent rotation thereof in the direction of rotation of said gear train shaft while permitting free rotation in the opposite direction.

2,639,619
RELIEF DEVICE FOR POWER PRESSES

Paul G. Pater, Hamilton, Ohio, assignor to Columbia Machinery and Engineering Corporation, Hamilton, Ohio

Application December 24, 1951, Serial No. 263,080
6 Claims. (Cl. 74—36)

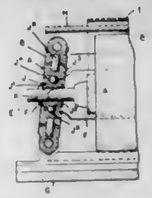


1. In a relief device for power presses the combination of a reciprocated ram having a notch formed in an edge thereof, a power driven pitman, a connector secured to the pitman and mounted in the notch for limited movement in the direction of ram reciprocation and having a flange overlapping the marginal edge portions of the ram around the notch, a single wedge interposed between the connector and the ram and in face-to-face engagement with the adjacent faces of the connector and the ram, releasable means permitting relative adjustment of the connector and the ram in the direction of reciprocation of the ram and operative to secure the connector to the ram, a set of laterally effective pull bolts passing through the flange and threaded in threaded bores formed in a side of the wedge, and a set of set screws threaded in the flange and bearing at their lead ends against said side of the wedge.

2,639,620
RECIPROCATOR

Frank L. Bamford, Detroit, Mich.

Application October 16, 1950, Serial No. 190,377
6 Claims. (Cl. 74—60)

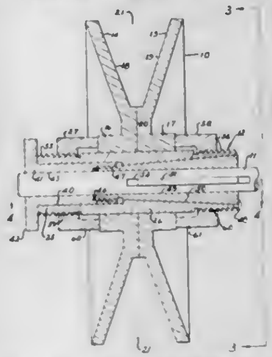


1. A reciprocator mechanism comprising a rotor and a stator, a wobble mechanism mounted on said rotor including an annular non-rotating universally wobbling element, a lever, and pivotal connections between said lever and said annular member and stator respectively, the axes of said pivotal connections being transverse to each other and both intersecting the center of wobbling movement.

2,639,621
SHEAVE AND ADAPTER

James C. P. Harris and Luther P. Starnes, Fort Mill, S. C.

Application December 22, 1950, Serial No. 202,321
7 Claims. (Cl. 74—230.17)

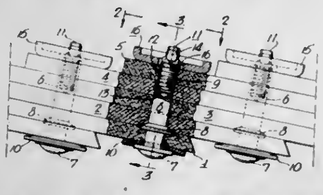


1. A sheave and adaptor adapted to be mounted on a shaft comprising a tapered bearing positioned on said shaft, means for holding said ta-

minant flow capacity in said one ring; and con- movement, the lower section including a hollow

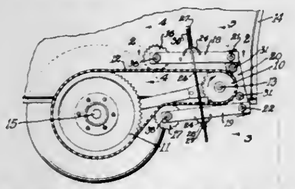
pered bearing against relative rotation on said shaft, a bushing having a body portion positioned on said shaft, one end of said bushing having an enlarged threaded bore therein, one end of said tapered bearing being threaded for engagement in the threaded bore in said bushing, a sleeve positioned about said bushing and said tapered bearing, said sleeve having a straight bore in one end thereof adapted to receive the body portion of said bushing, said sleeve having a tapered bore in the other end thereof adapted to receive the tapered bearing, said sleeve having a hub portion, a pair of annular disks adjustably mounted on said hub portion, said annular disks being concavo-convex and forming a V-shaped groove therebetween and means for positioning said disks relative to each other to vary the width of the groove formed therebetween.

2,639,622
DRIVING BELT
Henry E. Ginder, Manheim, Pa., assignor to Manheim Manufacturing and Belting Company, Manheim, Pa., a corporation of Pennsylvania
Application May 11, 1950, Serial No. 161,360
10 Claims. (Cl. 74—233)



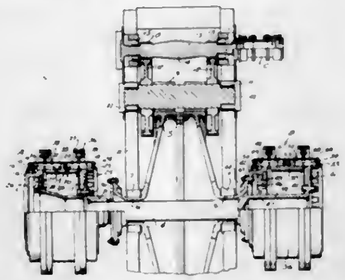
1. In a laminated driving belt comprising a plurality of links arranged in superimposed relation, fastening elements to secure said links together each having a shank portion extending through the overlapping portions of the links, bearing members disposed about one end of each fastener shank engaging the adjacent link, and securing means removably engaged with one end of each fastener shank and engaging said bearing members to prevent displacement of the links, said bearing members having an opening for the shank providing clearance for angular movement of the shanks relative to the bearing members upon deflection of the shank when the belt is placed under tension so that the securing means are caused to rock upon said bearing members which remain parallel to the adjacent belt links.

2,639,623
BELT TIGHTENER AND SLACK ADJUSTER
Harry S. Ausherman, Wichita, Kans.
Application March 29, 1950, Serial No. 152,532
4 Claims. (Cl. 74—242.11)



1. The combination with an endless flexible member embracing a driving wheel and a driven wheel to cause the latter to be driven by the former, of a pair of pressure devices engaged with corresponding sides of the two runs of said flexible member, means supporting said devices for bodily movements in unison with each other in a path that intersects both runs of the flexible member as well as for movements from and towards each other, and means acting on said devices to cause each to exert a yielding pressure against the adjacent run of the flexible member comprising an elongated rod slidably connected with said devices and including a spring interposed between one end portion of said rod and one of said devices.

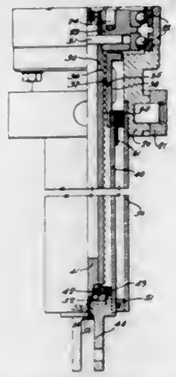
2,639,624
YIELDABLE POWER TRANSMISSION
Louis W. Falk, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application August 19, 1949, Serial No. 111,189
1 Claim. (Cl. 74—411)



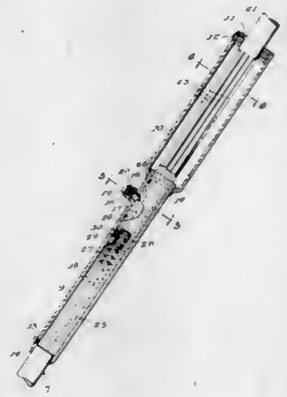
In a gear drive transmission, the combination of a train of intermeshing gears including a relatively small high speed output pinion and a relatively large low speed input gear, a shaft extending through said low speed gear, a torsionally resilient torque transmitting coupling connected to one end of said shaft, and a torsionally resilient torque transmitting coupling connecting the other end of said shaft to said gear, said couplings coacting to reduce the natural torsional vibration frequency of the low speed end of said train to thereby protect the teeth of the intermeshing gears against the dangerous effects of torsional criticals.

2,639,625
MOTOR DRIVEN ACTUATOR
Howard M. Geyer, Dayton, and Donald K. Ferris, West Milton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 28, 1951, Serial No. 258,636
11 Claims. (Cl. 74—424.8)

1. An actuator comprising in combination, a housing; a screw shaft rotatably supported within said housing; reversible power means carried by the housing and operatively connected to the screw shaft for rotating it; a non-rotatable nut operatively connected to the screw shaft, said nut having a tubular extension encompassing the screw shaft; a tubular casing spaced from and surrounding the tubular extension of the nut; sealing rings inside the casing at each end thereof, one ring being movable with the nut and slidably engaging the casing, the other ring being attached to the casing and slidably engaging the nut extension; an air flow orifice of predetermined flow capacity in said one ring; and control means operative at a predetermined point in the movement of the one ring toward said other ring, for closing said orifice to form an air cushion between the casing and the nut extension.

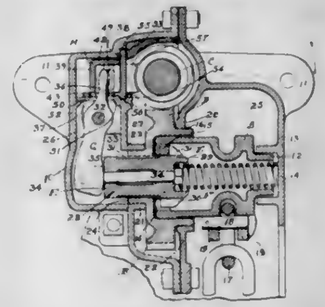


2,639,626
TELESCOPIC STEERING COLUMN
Harold V. Snyder, Iowa Falls, Iowa
Application August 13, 1951, Serial No. 241,570
2 Claims. (Cl. 74—493)



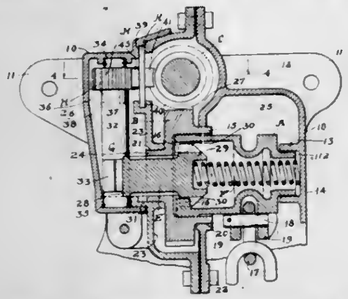
1. A collapsible steering column for vehicles comprising an upper and a lower section associated for relative movement of the upper section axially within and into the lower section in presence of emergency conditions, the range of possible movement being of a definite length, said range length being zonal in type to constitute a stage development of the yielding movement with the stages rendered active successively and operative to provide rates of yielding generally similar within the individual zones with the rate of one zone differing from that of an adjacent zone, said rate of yielding being greatest when the column is in normal steering status and being least when the upper section is fully collapsed at the opposite end of such range of movement, the lower section including a hollow casing having a closed lower end with an intermediate zone of its length internally splined, the lower portion forming an oil reservoir and the upper portion forming a receiving chamber for receiving oil transferred from the reservoir, said upper section including a steering column splined longitudinally for cooperation with splines of the lower section, opposing faces of certain of the splines being in spaced relation to form restricted channels for oil transfer between the reservoir and the receiving chamber, the free end zone of the upper section carrying a compressible spring exposed within the reservoir, said lower section having a spring-supported ball within its intermediate zone, said ball being cooperative with a recess carried by a spline of the upper section for mounting the column in normal steering position, said ball being dislodgable from its seat in presence of a light blow applied to the top of the steering column, thereby constituting the first stage; said reservoir, restricted openings, and receiving chamber forming the operative structure of a hydraulic shock absorbing mechanism and constituting the intermediate stage, being adapted to be rendered active in response to displacement of the ball of the first stage; the third stage being constituted by the spring carried by the free end of the upper section and its cooperation with the closed end of the reservoir, said spring being normally inactive within the reservoir and when rendered active being operative to additionally retard the rate of yielding movement within the approach to the remote end of the range of movement.

2,639,627
CLUTCH SHIFTING MEANS FOR HAND BRAKES OF RAILWAY CARS
Roland J. Olander, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 15, 1950, Serial No. 200,897
4 Claims. (Cl. 74—505)



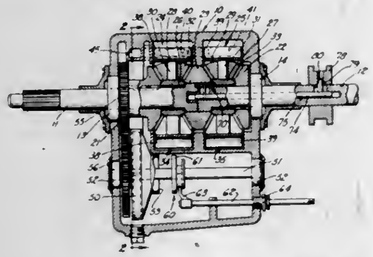
1. In a hand brake mechanism, the combination with a rotary chain winding member; of a rotary driving member; a reciprocating clutch operatively connecting said winding member and driving member; a manually actuated worm element operatively meshing with the driving member for rotating the same in reverse directions; a pivoted lever for reciprocating said clutch; and a reciprocable slide having a riblike thread thereon engageable with the worm element to be actuated thereby, said slide having a lengthwise extending cam slot therein within which the lever is engaged.

2,639,628
CLUTCH SHIFTING MECHANISM FOR GEARED HAND BRAKES
Roland J. Olander, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 15, 1951, Serial No. 211,059
6 Claims. (Cl. 74—505)



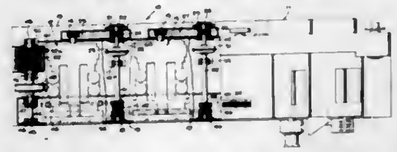
1. In a hand brake mechanism, the combination with a rotary chain winding member; of a rotary driving member; a reciprocating clutch member operatively connecting said rotary winding member and driving member; a manually actuated worm element operatively meshing with the driving member for rotating the same in reverse directions; a rotary clutch shifting member having an arm thereon engageable with the clutch member for shifting the latter; a reciprocating slide having a tooth engageable with the worm element to be actuated thereby; a rotary pinion coaxial with said clutch shifting member; driving connections between the pinion and the clutch shifting member; and a rack on said slide meshing with said pinion.

2,639,629
TRANSMISSION
Arthur B. Wiser, Los Angeles, Calif.
Application January 7, 1949, Serial No. 69,732
3 Claims. (Cl. 74—687)



1. In a transmission, the combination of a driving gear, an intermediate gear, a driven gear, a first rotor, first planetary gear means carried by said first rotor and meshed with said driving and intermediate gears, said first gear means being adapted to communicate rotational movement of said driving gear to said first rotor, a second rotor, second planetary gear means carried by said second rotor and meshed with said intermediate driven gears, said second gear means being adapted to communicate rotational movement of said intermediate gear to said driven gear, a first turbine connected to said first rotor, a first stream of fluid, first fluid delivering means for delivering said first stream of fluid to said first turbine to actuate the same to oppose said rotational movement of said first rotor, a second turbine connected to said second rotor, a second stream of fluid, and second fluid delivering means for delivering said second stream of fluid to said second turbine to actuate the same, to oppose said rotational movement of said second rotor, said first fluid delivering means including first nozzle means for directing said first stream of fluid to said first turbine, and said second fluid delivering means including second nozzle means for directing said second stream of fluid to said second turbine, said first and second fluid delivering means including in addition, a pump, having an inlet and an outlet, means for connecting the outlet of said pump to said first and second nozzle means, valve means controlling the inlet of said pump to control the magnitudes of said first and second fluid streams, and actuating means for said pump, said actuating means for said pump comprising gearing connecting said pump to said driving gear.

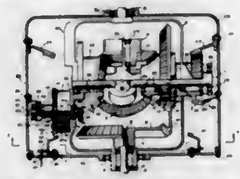
2,639,630
POWER PLANT FOR RIG DRIVE
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 6, 1950, Serial No. 188,787
15 Claims. (Cl. 74—722)



12. In a power plant for a well drilling rig, the combination of: a frame, a plurality of engine units supported on the frame and extending transversely thereof, a shaft, means for driving the shaft from a first of said engine units, a shaft positioned between said first engine unit and a second engine unit below the level thereof and extending parallel thereto, means for driving the latter said shaft including a power take-off member at one end of the second engine unit adjacent one side of the frame, power transmission connections for connecting the shafts in direct driving relation including an endless flexible element extending longitudinally of the frame between the shafts and passing under the first said engine unit adjacent the side of the frame remote from the said power take-off member.

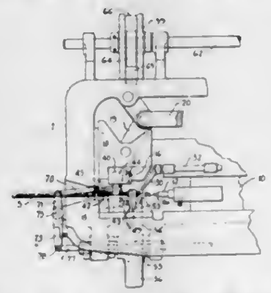
2,639,631
MECHANISM FOR POWER TRANSMISSION
Marvin Taylor, Brooklyn, N. Y.
Application April 8, 1950, Serial No. 154,768
7 Claims. (Cl. 74—751)

1. In a power transmission device, a power input member, a power output member rotatable about an axis, and an operative connection between said members including a gyroscopic mass, a structure supporting said mass so that it is capable of simultaneously rotating about a power axis coincident with the axis of rotation of said power output member, rotating about a precession axis perpendicular to said power axis, and spinning about a spin axis perpendicular to said precession axis, a first operative connection between said power input member and said mass for rotating said mass about said precession axis and a second operative connection between said power output member and said mass for spinning said mass about said spin axis, said second operative connection being non-linear in nature cyclically with respect to the period of rotation



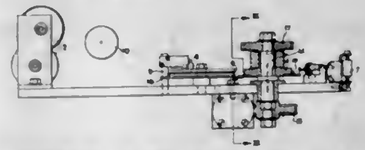
of said mass about said precession axis, a control member and an operative connection between said control member and said second operative connection to shift the phase of the cyclical non-linearity of said second operative connection with respect to the position of said mass about said precession axis.

2,639,632
FORGING MACHINE
William W. Criley, Shaker Heights, Ohio, Frederick F. Criley, Terra Ceia, Fla., and Henry P. Boggis, Shaker Heights, Ohio; Wilma Suits Criley, executrix of said William W. Criley, deceased, assignors to said Frederick F. Criley, as trustee
Application April 19, 1948, Serial No. 21,796
10 Claims. (Cl. 76—5)



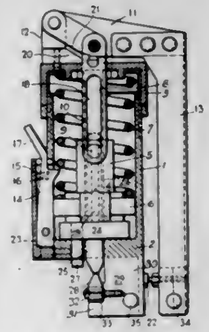
10. In a forging machine for making drill bits, having a head, a shank with a socket therein and an axial water hole from the head to the socket, the machine comprising the combination of a die having two die impressions, a header slide and two forging punches on the header slide each coacting with one of the die impressions, a shearing means for severing a blank from the end of a heated bar located between the die impressions, means for actuating the shear on each cycle of the header slide, first, in one direction toward one die impression, and, next, toward the other die impression, the forging punches being shaped to form the socket extending part way through the drill bit, the die having an anvil forming teeth on the drill bit, and the anvil having an axial opening, a water hole punch slidable therethrough and means for actuating the punch and connecting operating mechanism for timing the latter punch with relation to the receding motion of the forging punches, and whereby a complete drill bit is forged on each actuation of the header slide.

2,639,633
COLD WELDING OF METAL
Anthony Bagnold Sowter, Wembley, England, assignor to The General Electric Company, Limited, London, England
Application August 7, 1948, Serial No. 43,096
In Great Britain April 24, 1947
2 Claims. (Cl. 78—82)



1. Apparatus for welding together outwardly-extending flanges of a pre-formed circular-bent metal strip comprising a pair of pressure rolls, said rolls including cooperating opposed peripheral grooves to receive the circular-bent strip, intermediate cooperating peripheral portions adjacent the grooves to engage and apply welding pressure to the outside surfaces of said outwardly-extending flanges, and cooperating outwardly-extending peripheral shearing edges positioned at the side of said pressure-applying portions remotes from said grooves, to shear off the outer edge portions of said flanges substantially simultaneously with the welding of the flanges together.

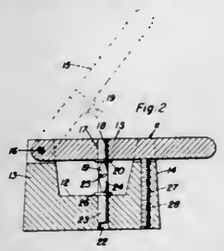
2,639,634
APPARATUS FOR COLD WELDING OF METAL
Anthony Bagnold Sowter, Wembley, England, assignor to The General Electric Company, Limited, London, England
Application April 12, 1949, Serial No. 86,929
In Great Britain April 23, 1948
3 Claims. (Cl. 78—82)



1. A pressure welding tool comprising a support, an anvil fixedly mounted on said support, a die for cooperating with said anvil in effecting a weld between two metal parts, means mounting the die with relation to said support for movement to and from said anvil, a hammer mounted upon said support for movement to and from said die, energy storage and release means at the side of the hammer remote from the die for causing the hammer to impart an impacting welding pressure upon the die, means for moving the hammer away from the die and simultaneously storing energy in said energy storage and release means, and means independent of said energy storage and release means continuously effective to bias the die towards the

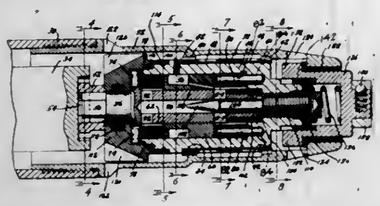
anvil so that when parts to be welded are placed between the anvil and the die in proper welding position, the biasing of the die towards the anvil will hold the parts in said position.

2,639,635
INDENTING PRESS FOR THE HOLLOW ARBOR OF A CANNON PINION
John Kochis, Melvindale, Mich.
Application June 19, 1950, Serial No. 168,881
1 Claim. (Cl. 81—6)



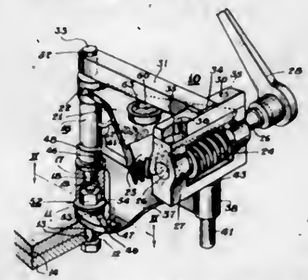
For use by watchmakers, a device for holding and indenting a cannon pinion arbor comprising a base having upstanding posts of similar heights projecting upwardly from rear and front ends of the base, the upper ends of said posts being bifurcated, a hand lever pivoted at one end between the furcations of the rear post, the other end of said lever being adapted to be moved to an operating position between the furcations on the upper end of the front post, said base being provided between said posts with opening means, a stump fitted removably into said opening means and having an upstanding anvil underlying the center portion of said lever, a depending chisel type indenting tool mounted removably on the intermediate portion of the lever and opposed to said anvil, said front post having a vertical screw threaded bore opening at its upper end between the furcations atop said front post, and a setscrew adjustably mounted in said bore and having its upper end cooperable with the lever between said last named furcations, the lower end of said set screw being accessible through the bottom of said base for manual regulation.

2,639,636
POWER-OPERATED, PREDETERMINED TORQUE RELEASE WRENCH
William H. Peck, Royal Oak, Mich.
Application March 8, 1951, Serial No. 214,485
7 Claims. (Cl. 81—52.4)



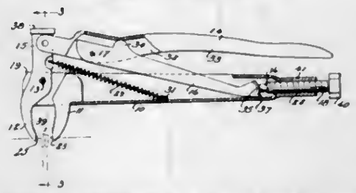
4. A torque inverter comprising, a power drive shaft, a driven sleeve surrounding said shaft, a piston rotatably driven by said drive shaft and axially slidable on said shaft and within said driven sleeve, said piston forming with said sleeve and said shaft a fluid chamber at the opposite ends of said piston, a cam track at the opposite ends of said piston, cam followers fixed to said sleeve in co-operation with said cam tracks, a fluid passage for conducting fluid from one of said fluid chambers to the other, and valve means for regulating the flow of fluid through said passage.

2,639,637
GEAR ACTUATED PREDETERMINED TORQUE RELEASE WRENCH
Jacob William Stirzel, Philadelphia, Pa.
Application March 5, 1952, Serial No. 274,846
14 Claims. (Cl. 81—52.4)



1. Apparatus of the character described comprising a work-engaging member, an arm secured to said work-engaging member, supporting structure associated with said work-engaging member, manually-operable force-applying means carried by said supporting structure, means for transmitting force from said force-applying means to said arm, means for retaining said supporting structure stationary during operation of the force-applying means carried thereby, and a torsion gauge comprising first and second elements, said first element being secured to said arm and said second element being secured to the work-engaging member at a point thereon spaced longitudinally thereof relative to the point of securement thereto of the arm, and means cooperating with said first and second elements, and operating in response to torsion in the work-engaging between said two points of securement for indicating attainment of a predetermined amount of torsion.

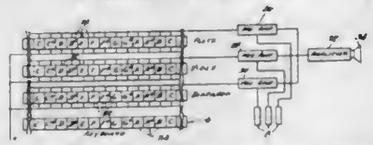
2,639,638
TOGGLE-ACTUATED CARRIAGE BOLT WRENCH
Clarence Gould, Council, Idaho
Application June 18, 1952, Serial No. 294,114
3 Claims. (Cl. 81—84)



1. A wrench comprising a substantially hollow handle, channel shaped in cross section, a stationary jaw mounted in one end of the handle and extending outwardly of the handle at right angles to the longitudinal axis of the handle, a movable jaw pivotally mounted in the handle

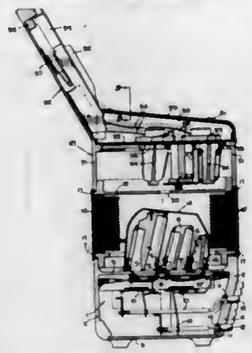
and positioned outwardly of the stationary jaw so as to move within an arc with relation to the longitudinal axis of the handle so that when it is in gripping relation to the stationary jaw it will extend at right angles to the longitudinal axis of the handle to coact with the stationary jaw, resilient means urging the movable jaw away from the stationary jaw, toggle acting levers pivotally connected to the movable jaw and extended into the handle for forcing the movable jaw into gripping relation with an object positioned between the jaws, and means for adjusting the position of said toggle acting levers.

2,639,639
ORGAN STOP CONTROL
Francis M. Schmidt, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application November 1, 1947, Serial No. 783,512
10 Claims. (Cl. 84—1.13)



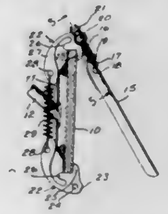
1. In an electric organ of the type wherein a plurality of tone generators related to various stops is adapted to be operated simultaneously by a single key, a plurality of tone generators arranged in sets, a plurality of electronic amplifying devices each having an input, means for rendering said amplifying devices inoperative, means for connecting each input to only one set of tone generators to control the passage of signals from a set of a plurality of tone generators pertaining to a given organ stop, biasing potential means, a plurality of organ stop switches, means interconnecting each electronic amplifying device with one switch, means interconnecting each switch with said biasing potential means for respectively and independently applying said bias to one of said amplifying devices to render said respective amplifying device operative.

2,639,640
MUTING DEVICE FOR ACCORDIONS
Ernest C. Filice, Sun Valley, Calif.
Application April 17, 1950, Serial No. 156,470
3 Claims. (Cl. 84—376)



1. An accordion involving: a base section; a treble section; a bellows between and connecting said sections; each section including reed banks, valve means controlling the reeds of said reed banks and levers and keys for operating said valves; means substantially enclosing said base reed banks and tending to minimize transfer of sound from said base reed banks through said bellows to said treble reed bank; a partition between said treble section and said bellows, said partition having relative small ports for supply of air to said treble reed blocks and tending to minimize transfer of sound from reed treble to said base sections; a sound absorbing structure mounted between said treble reed banks.

2,639,641
GLARE ELIMINATING DEVICE FOR REAR-VIEW MIRRORS OF MOTOR VEHICLES
Edward F. Piwczynski and Roman Galinski, New Britain, Conn.
Application May 22, 1948, Serial No. 28,576
3 Claims. (Cl. 88—77)

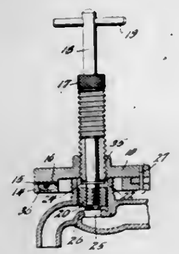


1. A glare eliminating device for the rear view mirror of a motor vehicle comprising a shield, a pivot pin, opposed plates movably engaging the pin and fixed to the shield, means adjacent the pin for holding the plates together and for moving them more closely together to increase the friction between the pin and plates, a hook at each end of the pin and having a head and a tail portion with its head portion fixed to the pin, the head portion of each hook having spaced arms with adjacent faces extending at approximately right angles to each other and adapted to receive therebetween the upper edge and face of the mirror, the tail portion of each hook extending from the head in the direction generally of the arm projecting from the head portion which engages the upper edge of the mirror and thereafter curving to the direction generally in which extends the other arm on the head which engages the face of the mirror, the portion of the tail which is adjacent the head having a sufficiently small cross-sectional area so that the tail may be moved with respect to the head, the outer end portion of the tail being adapted to engage the rear of the mirror or a supporting plate therefor, similar hooks for engaging the lower edge of the mirror, and resilient means connecting the tail portions of upper and lower hooks to urge the hooks toward each other.

2,639,642
VALVE SEAT REAMER
Andrew C. Brookey, San Antonio, Tex.
Application May 17, 1949, Serial No. 93,753
4 Claims. (Cl. 90—12.5)

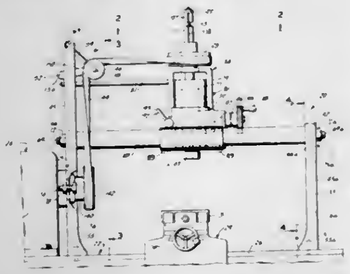
1. A detachably engageable valve reseating device comprising, a plate member, a pair of cooperating clamping arms, each pivoted at one of its ends to said plate member for swinging movement into and out of engagement with the hous-

ing of a valve to be re-seated, the free ends of said clamping arms each having formed therein a threaded conical recess, a rectilinear clamping screw carried by said plate member at a point remote from the pivotal point of each of said clamping arms and threadedly engaging both said recesses, said plate member being provided with an aperture intermediate the pivotal point of



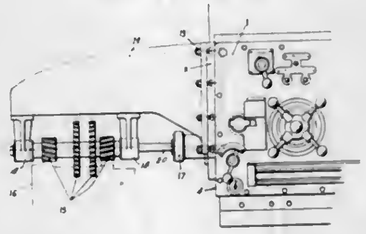
each of said arms and said remote point, a freely rotatable cutting member positioned within said aperture, and means associated with said plate and engaging said screw to prevent lateral movement of said screw with respect to said plate, whereby, when said screw is rotated to draw said arms toward each other into engagement with said valve housing, said cutting member remains equidistant from said clamping arms.

2,639,643
ATTACHMENT FOR LATHES
Raymond C. Palmer, Chicago, Ill.
Application May 7, 1948, Serial No. 25,765
6 Claims. (Cl. 90—16)



1. In a lathe having a headstock, a rotatable drive member projecting from said headstock, a drive pulley operatively connected to said drive member and rotatable thereby, and ways extending from said headstock, two parallel end plates releasably secured to said ways and extending transversely thereto, one of said end plates having an opening therein and being so disposed relative to said headstock that said drive member extends through said opening and said drive pulley is disposed on the opposite side of said one end plate from said headstock, two parallel side bars interconnecting said end plates, a housing mounted on said side bars, means for holding said housing in fixed position relative to said end plates, a spindle for holding tools rotatably mounted in vertically extending position in said housing and vertically slidable therein, means for vertically adjusting said spindle in said housing, a pulley wheel mounted on said spindle and operable upon rotation to rotate the latter, said spindle being longitudinally slidable through said pulley wheel, and a belt operatively connecting said pulley wheel to said drive pulley and operable to rotate said pulley wheel upon rotation of said drive pulley.

2,639,644
MACHINE TOOL SUCH AS BORING AND MILLING MACHINE
Charles William Berthiez, Paris, France
Application May 27, 1947, Serial No. 750,772
In France June 4, 1946
4 Claims. (Cl. 90—20.5)

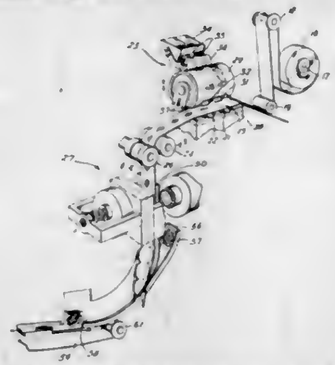


1. A machine tool comprising a headstock, means for supporting said headstock for movement thereof in a predetermined line of movement relative to said supporting means, a spindle carried by said headstock with its axis parallel to said line of movement of said headstock, and a part carried by and removably attached to said headstock in fixed bearing relation to an exterior surface thereof machined and trued in a predetermined relation to said line of movement of said headstock, said part being provided with a surface cooperating with said surface of said headstock to provide said bearing relation of said part to said headstock, said part being provided with a face exterior thereto with respect to said headstock and to said bearing surfaces, said face being of a substantial unobstructed area at a side of said spindle in a plane transversely of said line of movement of said headstock and trued in said plane with respect to said line of movement for attachment of tool fittings or the like so as to be rigidly and accurately held on said face in operative position at a side of said spindle.

2,639,645
METHOD OF MAKING BOTTLE CLOSURES
Rudolph Sonnenberg, Belvidere, Ill., assignor to Mid-West Bottle Cap Co., Belvidere, Ill., a corporation of Illinois
Application March 22, 1948, Serial No. 16,207
15 Claims. (Cl. 93—1.3)

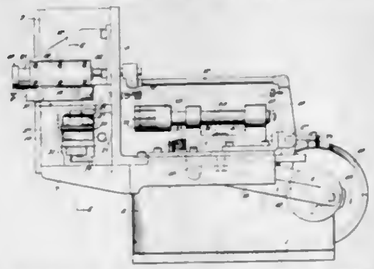
1. The method of making dairy bottle caps of thin metal foil which comprises the steps of forming characters on foil stock by impressing the same into the outer surface of the stock to a plane below the surface of the stock, applying a coating of colored ink to the depressed characters, feeding the stock to a forming station, holding said stock in said forming station by engagement therewith annularly of the inked portions thereof, forming an annular skirt on the foil stock shaped to nest with adjacent caps while retaining the inked portion of the stock out of contact with adjacent objects, transporting the formed caps from the forming station to a stacking station by

contact with an annular portion thereof, nesting the formed caps one upon another with the inked



portion of the caps in spaced relation, and holding the caps in nested relation until the ink is dry.

2,639,646
APPARATUS FOR SHAPING TAMPON APPLICATOR TUBE ENDS
Oscar T. Thompson, deceased, late of Neenah, Wis., by Veneta Thompson, executrix, Neenah, Wis., and Howard M. Ruth, Appleton, Wis., assignors to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application December 2, 1948, Serial No. 63,084
3 Claims. (Cl. 93—36.5)



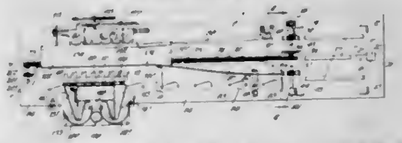
2. Apparatus of the class described, comprising a chute for guiding a series of axially parallel tubes arranged side by side in a predetermined path of travel, a pair of reciprocable tube holders each movable in a direction transversely of the axes of said tubes into and out of tube holding positions, means for simultaneously moving said tube holders into and out of said tube holding positions, each of said tubes being successively engaged first by one and then by the other of said tube holders, a slide member reciprocable in the direction of the axis of a tube held in one of said positions, a die carried by said slide member for engaging and bending one end portion of a tube in one of said positions to thereby form such end portion to the desired shape, means for effecting reciprocation of said slide and die, a second die engageable with the end portion of a tube held in the other of said positions for forming such other end to the desired shape, and means for effecting reciprocation of said dies simultaneously in opposite directions to effect operative engagement thereof with the respectively adjacent tube ends.

2,639,647
BATTERY INSULATOR TUBE MANUFACTURE
Henry J. Berenson, Milwaukee, Wis., assignor to National Paper Can & Tube Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 23, 1949, Serial No. 77,871
23 Claims. (Cl. 93—36.5)



1. In a device for curling the end of a tube, the combination with a curling die and means for holding a tubular workpiece in alignment therewith, of an axially reciprocable mandrel having a tapered shoulder and a reduced work-supporting terminal portion adapted to freely enter the workpiece, means for effecting work-curling relative movement between the mandrel and the die and means for guiding the mandrel for reciprocation to and from the die, the length of said terminal portion beyond the shoulder being such that it may extend substantially through the workpiece before the tapering shoulder enters the workpiece for the holding of the end thereof remote from the die, the said tapered shoulder wedging in the workpiece for the withdrawal of the workpiece from the die in the reciprocation of the mandrel from the die.

2,639,648
CARTON SETUP MACHINE
Richard J. Fahey, Evanston, Ill., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application September 28, 1946, Serial No. 699,950
32 Claims. (Cl. 93—37)

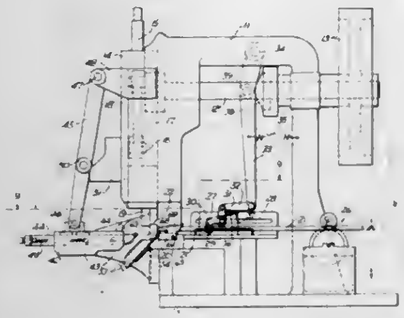


1. In a machine for setting up knocked-down cartons of the type characterized in knocked-down condition by a folded longitudinal partition connected to the side walls of the carton, means for feeding the cartons longitudinally, a blade engageable with the longitudinal partition from a direction transverse the direction of carton travel to erect the same internally of the carton and between the side walls thereof, and means for engaging said blade with said longitudinal partition to erect the same as the longitudinal feed of the carton continues, including means for moving said blade in a longitudinal direction in synchronization with the carton and at an angle to and coplanar with its path of longitudinal travel in so engaging the partition.

2,639,649
BOX STAYING MACHINE
Martin V. Silby, New York, N. Y.
Application December 5, 1947, Serial No. 789,879
3 Claims. (Cl. 93—41)

1. In a machine for attaching stays to the corners of box shells which are formed by twice folding the four arms of a cruciform blank upon

themselves so that the outer walls of the shell are sloping and the inner walls thereof are substantially vertical, a frame; a reciprocating plunger having a die at one end thereof, a reciprocating anvil, and a stationary die, said plunger, anvil, and lastnamed die being mounted on said frame, and said anvil having a head with a longitudinal ridge and surfaces slanting downwardly on both sides of said ridge, said



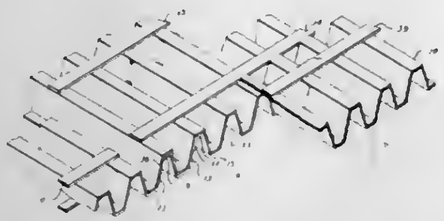
surfaces being abruptly stepped upwardly at the front of said head whereby a longitudinally ridged island is provided adjacent the front end of said anvil; stay-cutting means, comprising the first- and secondnamed dies; stay-attaching means, comprising the firstnamed die and said anvil; and gages for holding unstayed folded parts of a box shell blank in predetermined relative positions during the attaching of a stay to said parts.

2,639,650

PREFABRICATED RUNWAY CONSTRUCTION

Alces Paul Robishaw, Houston, Tex., assignor to C. N. Housh, Houston, Tex.

Application June 24, 1950, Serial No. 170,176
4 Claims. (Cl. 94—13)



1. A prefabricated construction section comprising a continuous corrugated sheet member, narrow elongate members positioned transversely of the corrugations on both top and bottom side faces of the sheet member and secured to the peaks of the corrugations providing a trussed construction, said elongate members on one side face of the corrugated member extending from the endmost corrugation at a first end of said sheet member to a corrugation adjacent but at least one corrugation removed from an end of said corrugated sheet member opposite said first end, and said elongate members on the other side face extending from the endmost corrugation at said opposite end to a corrugation adjacent to but at least one corrugation removed from said first end of the sheet member thereby leaving an end portion of said other side face unobstructed by said elongate members to receive, in mating relationship, the first end of another section which is similarly constructed.

2,639,651

FLUX OIL AND METHOD OF REVIVIFYING ASPHALT ROADS THEREWITH

Frederick S. Scott, West Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application April 19, 1946, Serial No. 663,613
5 Claims. (Cl. 94—23)

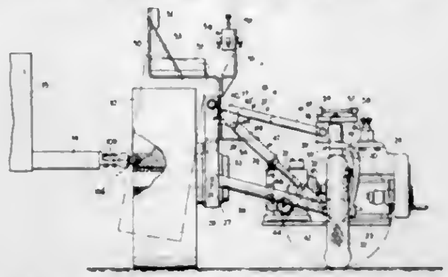
1. A method for revivifying deteriorated asphalt roads which comprises breaking up the surface of the deteriorated road to form lumps; applying to said lumps without removal from the road bed a coating of a highly aromatic petroleum extract oil having a viscosity between about 70 and about 8000 SSU at 100° F., a viscosity-gravity constant greater than about 0.90, and a flash point above about 300° F., and consisting essentially of aromatic-type hydrocarbons substantially free from asphaltenes, olefines, and cracked hydrocarbons, said extract having been prepared by a process involving contacting a straight run fraction from an aromatic hydrocarbon-containing crude petroleum with a liquid solvent selective in its action toward aromatic hydrocarbons so as to physically dissolve therein the desired aromatic hydrocarbons without dissolving the undesired non-aromatic hydrocarbons; allowing the coated lumps to stand for at least one hour; and thereafter amalgamating the coated lumps by the application of pressure.

2,639,652

MOTORIZED TRENCH ROLLER

Fred J. Wright, Columbus, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio

Application April 21, 1948, Serial No. 22,390
6 Claims. (Cl. 94—50)



5. A roller including a roller frame, a wide rimmed roll rotatably connected to roll relative to said frame, a bicycle unit positioned laterally of said roll including a frame and a pair of tandem steerable wheels and a power unit, a third frame means interconnecting said roller frame and said bicycle unit frame, said third frame means including spaced parallel motion linkages pivoted to said roller frame and said bicycle unit frame and means for pivotally adjusting said linkages to adjust the relative heights of said roll and said bicycle unit, means for adjusting said wheels reversely and operable to adjust them from substantially tandem to substantially parallel positions, and means for attaching said roll to a truck and lifting it off the ground by rotating said roll, said lifting means including an attaching member carried by said roll and mounted eccentrically of the axis of rotation thereof.

2,639,653

MEANS FOR PRODUCING MICROPHOTOGRAPHS HAVING A THREE-DIMENSIONAL EFFECT

Karl A. Fischer, Washington, D. C.

Application April 13, 1949, Serial No. 87,322
4 Claims. (Cl. 95—18)
(Granted under Title 35, U. S. Code (1952), sec. 266)



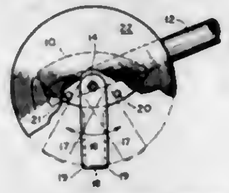
1. In a system for taking microphotographs, said system including a microscope comprising an elongated cylindrical tube, ocular lens means mounted on one end of said tube and a microscope objective lens mounted at the opposite end of said tube, and a photographic camera disposed in operative relation with said ocular lens means: the combination with said system of a rotatable diaphragm assembly mounted on said elongated cylindrical tube closely adjacent said objective lens, said diaphragm assembly comprising an opaque semicircular disc closely adjacent to said objective lens and an annular rotatable mounting surrounding said semicircular disc, said annular mounting interfitting with said lastnamed end of said elongated cylindrical tube; whereby said semicircular disc may be rotated to alternately block and unblock complementary halves of the effective area of said objective lens for the successive taking of slightly dissimilar microphotographs by said camera through said objective lens, said microphotographs giving a three-dimensional effect when viewed in side-by-side assembly.

2,639,654

SCRAPER-TYPE CULTIVATOR TOOL

Theodore A. Baunsgard, Seattle, and Earl N. Baunsgard, Kirkland, Wash.

Application April 12, 1948, Serial No. 20,464
2 Claims. (Cl. 97—59)



2. A scraper-type cultivator tool, comprising: a base block; a U-shaped cutter blade having substantially straight sides extending at right angles from a substantially straight base, the free ends of said sides being pivotally secured to corresponding ends of said base block, said base block spanning the space between said free ends and depending below the pivotal axis; a wheel pivotally secured to each end of said base block outside of said cutter blade and coaxial therewith, said wheel being circular with its radius being greater than the thickness of the base block and shorter than said sides of said cutter blade from their point of pivot to said base whereby said base lies beyond the rim of said wheel; opposite edges of said base being sharpened forming knife edges; the lower side of said base block being convex longitudinally to provide a runner-like surface; a handle secured to said base block and extending outwardly and upwardly therefrom; and said base block having stop means limiting the swinging of said cutter blade about its pivot.

2,639,655

HOT-AIR REGISTER

Lawrence A. Whitehead, Richmond, Ind.

Application October 5, 1950, Serial No. 188,626
1 Claim. (Cl. 98—40)



In a heat dispersing device for attachment to the bottom of a room wall, a heat dispenser comprising a pair of end plates, a vertical front plate turned inwardly at its bottom edge to rest on the floor, the vertical plate being perforated and outwardly deflected above the perforations to form downwardly directing louvers, an upwardly and rearwardly sloping top plate joining the top of the vertical front plate, the sloping top plate being perforated and upwardly deflected to form vertical lips below the perforations to direct air vertically upward against and parallel with the wall, a horizontal top plate joining the upper edge of the sloping front plate, a downwardly turned edge on the horizontal top plate for contact with the wall, and a supporting plate attached to the lower edge of the wall to which the heat dispersing device is attached.

2,639,656

POTATO CHIP BLEACHING EQUIPMENT

Henry D. Furniss, Atlanta, Ga., assignor to Gordon Foods, Inc., Atlanta, Ga., a corporation of Georgia

Application June 9, 1951, Serial No. 230,760
4 Claims. (Cl. 99—263)

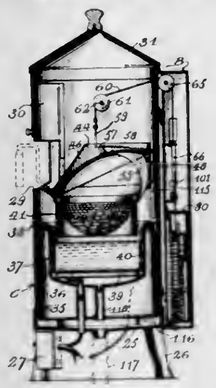
1. In combination with continuous-process potato chip processing equipment having a rinse tank and delivery conveyor means for delivering potato slices to said rinse tank, a bleaching tank for bleaching fluid, means for heating fluid in said bleaching tank, longitudinal conveyor means mounted on said bleaching tank and positioned longitudinally thereof, said longitudinal conveyor means being arranged to deliver potato slices to said bleaching tank, means for driving said longitudinal conveyor means, input conveyor means for delivering potato slices to said longitudinal conveyor means, means for driving said input conveyor means, said input conveyor means be-

ing movably mounted on said bleaching tank so as to be selectively movable either into operative position to receive potato slices from said delivery conveyor means or into inoperative position away from said delivery conveyor means.



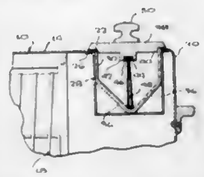
output conveyor means mounted on said bleaching tank and positioned to take potato slices from said bleaching tank, said output conveyor means being arranged to overhang said rinse tank, and means for driving said output conveyor means.

2,639,657
AUTOMATIC COOKER
Holger L. Lawson, Montreal, Quebec, Canada
Application May 4, 1950, Serial No. 159,950
1 Claim. (Cl. 99—336)



In combination, an openable enclosure, a frying bath inside said enclosure, a basket holder lowerable in the bath, a basket removably supported by said holder, a first cord attached to said holder for suspending the same, a first spring secured to said first cord for raising said basket holder from the bath, a latch for holding the basket holder down against the action of said first spring, and a timing mechanism for releasing said latch comprising a second spring attached at one end to said first cord, a second cord attached to the other end of said second spring, a free-wheeling clutch comprising an external flanged pulley, an internal shaft, a coil spring separating the pulley from the shaft, one end of said coil spring secured to said shaft, a gear wheel keyed to said shaft, said second cord wound around the flanged pulley of said clutch, a third spring attached to the free end of said second cord for freely rotating said external pulley of said clutch when the tension of said second spring is released, said second spring urging rotation of said gear wheel, a gear train meshing with said gear wheel, an oscillating disc connected to said gear wheel, and abutment means associated with said second spring for releasing said latch when tension on said second spring is released.

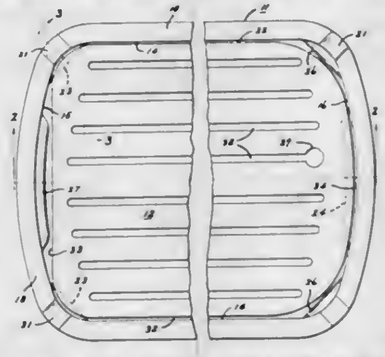
2,639,658
BUTTER MELTING AND APPLICATOR UNIT FOR BREAD TOASTERS
Elizabeth I. Biehls, Erie, Pa.
Application April 4, 1952, Serial No. 280,611
3 Claims. (Cl. 99—339)



1. The combination, with a bread toaster having a heat-producing element, of a melting and applicator unit for butter comprising; a rectangular well having a horizontal bottom wall and recessed within said toaster in sufficiently close proximity to the heat-producing element as to be heated thereby during the operation of the toaster; a receptacle adapted to retain a quantity of butter and removably seated in the well, for melting of the butter on heating of the well, the receptacle having a bottom wall including downwardly converging side portions meeting along a line extending longitudinally and centrally of the receptacle to provide a central depression in the receptacle arranged for flowing of the melted butter thereinto, said side portions seating against the bottom wall of the well at their meeting line and being angularly related to said bottom wall of the well to form open spaces of triangular cross section between the respective side portions and said bottom wall into which heat can flow; a removable cover for the receptacle; and an applicator brush connected to the under side of the cover and depending therefrom within the receptacle, said brush being aligned with and extending fully to the bottom of said depression for immersion of the lower end of the brush within said quantity of butter, during the melting of the butter within the receptacle.

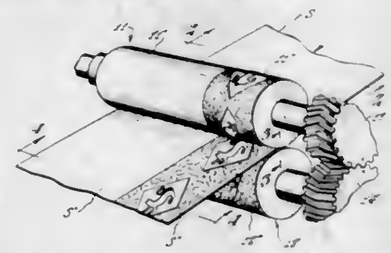
2,639,659
BROILER
Millard E. Fry, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 13, 1951, Serial No. 246,389
2 Claims. (Cl. 99—393)

1. For use in an oven, a cooking device including an elongated drip pan having upright side and end walls and a bottom wall, the side walls of said pan being relatively straight and the end walls thereof being curved, said pan being adapted to be removably mounted in the oven adjacent a source of heat therein, an elongated grid for supporting food to be cooked above the bottom wall of said drip pan, said grid being of a size to pass freely into said pan between the upright walls thereof, means for varying the height of said grid in said pan relative to said bottom wall thereof, said means comprising a first set of three grid supports near the top of said pan, said first set of three grid supports including a pair of bosses each projecting inwardly from a corner of one curved end of said pan and a ledge projecting inwardly from the central part of the other curved end of said pan, said means also comprising a second set of three grid supports below said first set thereof, said second set of three grid supports including a pair of bosses each projecting inwardly from a corner of said other curved end of said pan and a ledge projecting inwardly from the central part of said one curved end of said pan, said grid having a substantially straight end and a rounded end whereby when the same is lowered in one position toward the bottom of the pan the corners



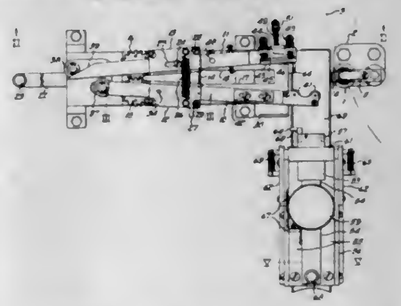
of its straight end rest on said bosses of said first set of grid supports and the central part of its rounded end rests on the ledge of said first set of grid supports to occupy the upper portion of said drip pan, and whereby when said grid is rotated end to end and lowered toward the bottom of the pan its straight end clears the ledge of said first set of grid supports with the corners thereof engaging the bosses of said second set of grid supports and its rounded end clears the bosses of said first set of grid supports with its central part engaging the ledge of said second set of grid supports to occupy the lower portion of said drip pan.

2,639,660
ROLL APPARATUS FOR LOCALIZED EMBOSSING
Frederick A. Sunderhauf, Summit, and James C. O'Hear, Union, N. J.
Application February 14, 1951, Serial No. 210,886
3 Claims. (Cl. 101—23)



1. An apparatus for roller embossing a localized area of continuous sheet material, said apparatus comprising a pair of rolls, means for rotatably mounting said rolls, and drive means for rotating the rolls, each of said rolls being provided with a pattern for embossing a longitudinal area of a sheet of material passed between the rolls, means for reducing the thickness of the remaining unembossed area of said sheet so as to elongate said remaining area to the same extent as the elongation resulting from the embossing thereof of said embossed longitudinal sheet area, a surface area of one of said rolls being provided with embossing projections and the surface area of the other of said rolls being provided with recesses each receiving a respective one of said projections, the clearance distance between the outermost face of each of said projections and the bottom of its respective recess being greater than the clearance distances between the other opposite adjacent non-embossing portions of the rolls, whereby a clearance space is provided between the sheet material being embossed and the bottoms of the recesses.

2,639,661
BASE MARKING APPARATUS
Harry C. Atkins, University Heights, and Herman E. Hermanson, Cleveland, Ohio, assignors to General Electric Company, a corporation of New York
Application November 13, 1950, Serial No. 195,448
10 Claims. (Cl. 101—38)

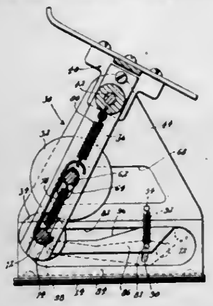


1. Apparatus for marking characters on the periphery of round objects periodically presented at a work station, comprising a pair of arms carrying gripping means at their forward ends, means for sliding said arms forward towards said station to encompass said object on opposite sides, means for actuating said arms while so advanced in order to close said gripping means upon said object, means for causing said arms to slide one with respect to the other in order to roll said object therebetween, and a marking stamp carried by one of said arms and located to contact said object and impress said characters thereon during the rolling thereof.

2,639,662
BED AND CYLINDER ADDRESS PRINTING MACHINE
Harmon P. Elliott, Watertown, Mass.
Application April 22, 1950, Serial No. 157,445
2 Claims. (Cl. 101—56)

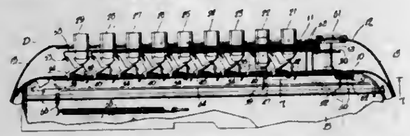
1. A printing machine comprising a track along which printing devices may be moved in succession to a printing position, a printing roll operative at the printing position and having a shaft disposed transversely of the track and parallel to the plane of said printing devices, means for reciprocating the shaft and roll longitudinally of the track, and guide means engaging opposite

ends of the roll shaft for guiding the reciprocating shaft through a circuitous path with the roll in printing relation to the printing device in the printing position during its movement in one longitudinal direction and out of printing relation with said printing device during its movement in the opposite longitudinal direction, said guide means comprising, at each end of the roll shaft, a fixed guide for engaging the end of the roll shaft and guiding the movement of the roll shaft in one direction along said track, and a cam-lever pivoted at one of its ends in spaced relation to said fixed guide and having its free end constantly biased toward engagement with said fixed guide and constituting a yieldable abut-



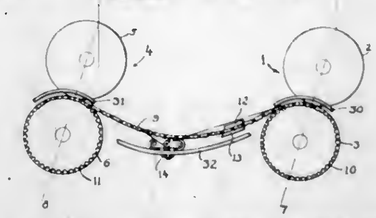
ment in the path of movement of the end of the roll shaft in said one direction along the fixed guide, said biased end of the cam-lever having one cam surface arranged to be engaged by said end of the roll shaft moving in said one direction whereby the biased end of the cam-lever is cammed out of the path of the end of the roll shaft until said end of the roll shaft moves past the cam-lever, and having another cam surface on which said end of the roll shaft rides when the direction of movement of the roll is reversed thereby to guide said end of the roll shaft around the biased end of the cam-lever for travel in guided engagement with said cam-lever during the said reversed movement of the roll along said track.

2,639,663
KEYBOARD CONSTRUCTION FOR CHECK WRITERS, ETC.
John Whitaker, North Wales, Pa., assignor to Safeguard Corporation, Lansdale, Pa., a corporation of Delaware
Application December 3, 1947, Serial No. 789,381
7 Claims. (Cl. 101—93)



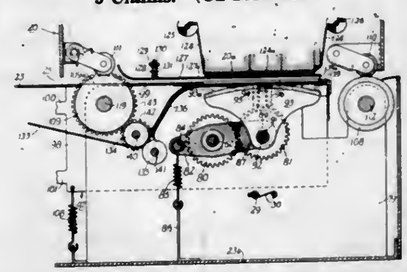
1. In a keyboard mechanism, a plurality of columns each comprising a series of independently operable selector keys individually marked with predetermined indicia, an actuator element operatively associated with each key and movable therewith between inoperative and operative positions, indicator means connected to each of said actuator elements and marked with indicia corresponding to the indicia on the associated key, each said indicator means in the inoperative position of its actuator element being disposed in a retracted position with its indicia concealed from view and actuable by the actuator element into a projected position with its indicia exposed to view, a longitudinally extending locking slide for each column of keys, and means on said actuator elements cooperable with said slides to retain the selected actuator elements in operative position with the associated indicator means disposed for view by the operator.

2,639,664
SHEET CONVEYER
Alexander J. Albrecht, West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application December 14, 1946, Serial No. 716,318
7 Claims. (Cl. 101—183)



2. In a multiple unit rotary printing press, a flexible conveyor arranged for taking a sheet from a printing unit, press driven means for driving said conveyor in a curved path and at a constant speed relative to the press, a sheet carrier, means movably attaching the sheet carrier to said conveyor, and means for guiding the sheet carrier in a different curved path to regulate slack of a sheet emerging from a printing unit.

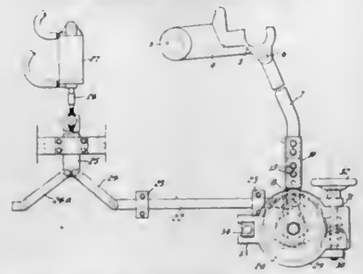
2,639,665
MAIL MARKING MACHINE FOR SHEETS OR TAPES
Harry L. Lambert, Rochester, N. Y., assignor to Commercial Controls Corporation, a corporation of Delaware
Application February 6, 1948, Serial No. 6,762
3 Claims. (Cl. 101—235)



1. In a mail treating machine, in combination, a printing head, an inked ribbon for inking said printing head, guard means underlying a portion of said ribbon and acting to support it in close proximity to said printing head, a platen, means for effecting relative movement of said printing head and said platen toward and away from one another to print on an article placed therebetween, a support for an article to be printed upon by said printing head, means mounting said support between said printing head and platen for movement relative thereto, means forming

a driving connection between said second-mentioned means and said support for moving said support toward said printing head prior to the printing operation, thereby to position the article to be printed in proper printing register relative to said printing head and platen, and means mounting said guard means for movement relative to said printing head and in a position to be engaged by said support when said support moves toward said printing head.

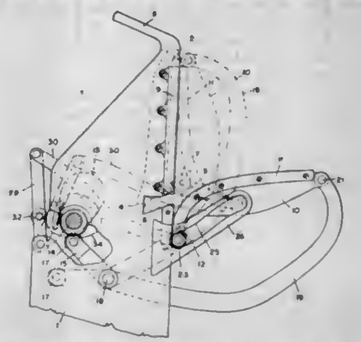
2,639,666
ROTARY PRINTING MACHINE
Angus Murray Halley, Moseley, Birmingham, England
Application June 29, 1950, Serial No. 171,156
In Great Britain May 8, 1950
4 Claims. (Cl. 101—247)



1. In a rotary printing machine means for setting a printing cylinder relative to the printing medium comprising, in combination, a pair of levers, bearings in the levers for supporting the printing cylinder, said levers being pivoted to the frame of the machine, a shaft rotatable in eccentric bores in a pair of bushes in the frame of the machine, a pair of discs eccentrically mounted on said shaft and having facial cam tracks eccentric to the shaft, a pair of links each pivoted at one end to the corresponding one of said levers and having a pin engaging the cam track in one of said discs, means for rotating said shaft in the bushes and means for rotating the bushes in the frame.

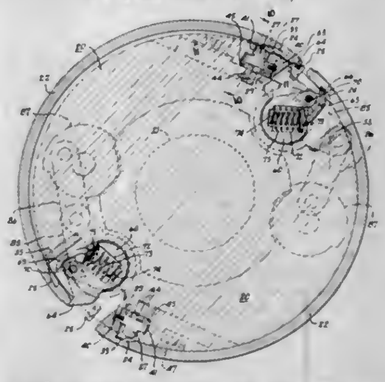
2,639,667
CURVED PLATEN PRINTING PRESS
Joseph F. Jirousek, Cleveland, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application June 5, 1947, Serial No. 752,732
4 Claims. (Cl. 101—297)

1. In a platen printing press of the character described, a main frame, a form-bed carried by said frame, a platen having a convexly curved surface adapted to make rolling contact with a form in said form-bed when oscillated into impression position, rack means on said frame to each side of said form-bed and extending below the impression portion of said form-bed, a convexly curved downwardly extending portion on said platen, rack means on said platen to each side of the impression surface of said platen and continuing along said downwardly extending portion below such impression surface, said rack means on said platen meshing with said rack means on said frame to position said platen relative to said form-bed, a shaft rotatably journalled in said frame on an axis parallel to said form-bed, a cam mounted on said shaft for rotation therewith, a rocker arm mounted on said frame and pivotally connected to the upper portion of said platen, said cam being adapted to rock said arm to rock said platen into and out of impression position, a cam track on said frame, a cam follower on the lower portion of said platen adapted



to travel along said cam track, a lever arm pivotally mounted on said frame and pivotally connected to the lower portion of said platen, and cam means operative to limit movement of said lever arm and thereby movement of said cam follower along said cam track in synchronism with the rocking of said rocker arm.

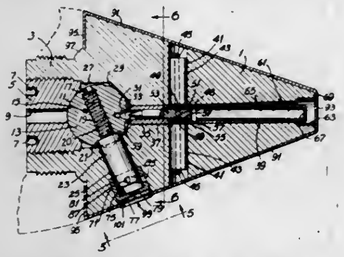
2,639,668
PRINTING CYLINDER
Corson Walter Chase, Oak Park, Ill., and Kent Roger Manning, Jackson, Mich., assignors to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application September 10, 1948, Serial No. 48,622
12 Claims. (Cl. 101—378)



1. In a plate cylinder for holding printing plates by circumferential tension applied to pockets at the leading and trailing edges of the plates and having provision for mounting a plurality of plates side by side, a tension lockup arrangement comprising, in combination, a plurality of register hooks mounted in said cylinder and spaced therealong for engaging the pockets at one of the edges of said plates, means for adjusting the register hooks associated with each of the plates so that the plates may be registered independently of one another, a plurality of ten-

sioning hooks mounted in said cylinder at the opposite edge of said plates for engaging the pockets therein, means for independently mounting said tensioning hooks for movement in a peripheral direction, a shaft extending adjacent said tensioning hooks and having means for positioning the same in the cylinder, means for interconnecting said shaft and said tensioning hooks so that the hooks are moved in unison toward and away from engagement with the associated pockets in the plate upon movement of the shaft in one direction or the other, and means including springs interposed between said shaft and said tensioning hooks respectively so that said hooks may be brought into full and resilient engagement with the associated pockets in spite of misalinement of said pockets and in spite of said plates being registered out of alinement with one another.

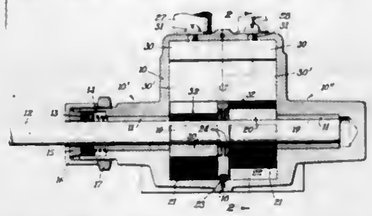
2,639,669
SHEATHED FUSE
Parke H. Thompson, Kirkwood, Mo., assignor, by mesne assignments, to Marion L. J. Lambert, doing business as Crystal-Flo Products Company, St. Louis, Mo.
Original application May 5, 1945, Serial No. 592,131. Divided and this application October 21, 1949, Serial No. 122,818
1 Claim. (Cl. 102—74)



A point-detonating fuze for a projectile comprising a generally conical fuze body having means at its base for attaching the fuze to the front of a projectile, an opening at the point of the fuze body and point-detonating fuze mechanism within said body adapted for impact actuation through said opening, a tool-operated adjustable mechanism within the body accessible through an opening in the side of the body, and a hermetically-sealing metal sheath clinched over the rear of the fuze body and covering said body including the openings at the front and side, the portion of the sheath that covers the point-detonating mechanism being of such thickness as to permit impact actuation of the mechanism through the opening, and the portion of the sheath that covers the adjustable mechanism being formed as an integral indented portion of such reduced thickness as to allow for its puncture by a tool for manipulating the adjustable mechanism.

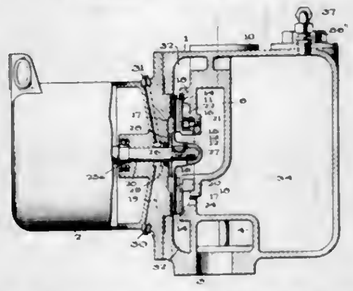
2,639,670
LIQUID PUMP
Ralph E. Gordinier, Climax, Mich., assignor to Economy Faucet Company, Newark, N. J., a corporation of New Jersey
Application September 18, 1948, Serial No. 49,980
3 Claims. (Cl. 103—4)

1. In a liquid pump of the class described, in combination, a pump housing, said housing forming a substantially cylindrical pumping compartment with intake and discharge space in communication therewith, a pump shaft extending through the housing axially of the compartment and journalled in the housing, a first divider member located within the housing and laterally disposed with respect to the axis of the compartment to section said compartment into a plurality of sub-compartments, said first divider member being provided with an external periph-



eral ring seal adapted to contact the inner surface of the compartment in liquid tight engagement and having wear plates recessed therein and trunnioned over said shaft, notched impellers within said sub-compartments adapted to gyrate therein and to force liquid therethrough, and a second divider disposed longitudinally of the axis of the pumping compartment and extending therein in liquid sealing engagement with said notched impellers to separate intake from discharge.

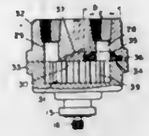
2,639,671
SELF-PRIMING CENTRIFUGAL PUMP UNIT FOR LIQUID DISPENSING APPARATUS
Bernard Wagner, Crafton, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 11, 1949, Serial No. 120,797
5 Claims. (Cl. 103—103)



1. In a centrifugal pump having an inlet, an outlet and an air separation chamber communicating with said outlet, the improvement therewith for priming comprising a relatively flat cylindrical impeller provided with a central inlet eye, radial passages in said impeller connecting said eye with the outer periphery thereof, lateral passages in said impeller located adjacent said eye, each said lateral passage extending from an end face of said impeller to one of said radial passages, an annular chamber communicating directly with a face of said impeller and communicating with the liquid in said air separation chamber through a passage therebetween, a wearing ring in said annular chamber cooperating with said impeller face and provided with a duct

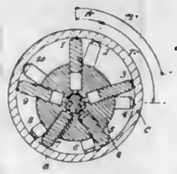
directing liquid from said annular chamber to the region of said lateral passages in said impeller.

2,639,672
CONTROLLED PRESSURIZING OF PUMPS
James P. Johnson, Shaker Heights, Ohio
Application November 15, 1947, Serial No. 786,215
7 Claims. (Cl. 103—126)



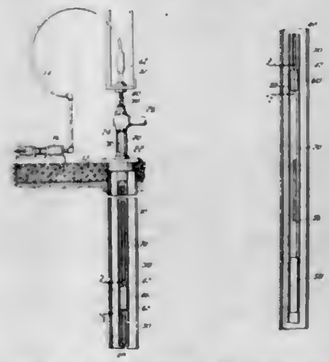
1. The combination with a gear pump comprising a case formed with a cavity therein and intake and discharge passages leading into such cavity, and a pair of meshing gears rotatably supported in said case and having a running fit with the walls of such cavity whereby the draw fluid into such intake passage and deliver such fluid under pressure into such discharge passage, of a disk element in said case with a portion one of its sides constituting a portion of one of the walls of such cavity closely adjacent one of the sides of said gears and teeth thereof and extending continuously across the point of gear intermesh and along such one side of said gears to the inner peripheral wall of the cavity to close communication between such passages thereat with its other side exposed to fluid under pressure delivered by the pump, said case being formed with a passage leading from such discharge passage to such other side of said element, and means in said case abutting another portion of such first-named side of said element thereby contraining bodily movement of said element by fluid under pressure acting thereon in a direction closer toward such one side of said gears, said element being yieldable whereby the portion thereof unconstrained by said means is yieldably urged toward such one side of said gears and teeth thereof.

2,639,673
PUMP OR MOTOR
Ruben Hadekel, Warrington, England, assignor to Electro-Hydraulics Limited, Warrington, England, a British company
Application February 24, 1948, Serial No. 10,495
In Great Britain April 13, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires April 13, 1965
1 Claim. (Cl. 103—161)



A fluid pump or motor comprising a plurality of cylinders and pistons arranged in two sets, inlets and outlets for respective cylinders, and driving means for said pistons, each of said sets consisting of an uneven number of pistons, so arranged that the space phase difference between succeeding pistons is alternately one-half and one and one-half times the average phase difference, the latter being equal to 360° divided by the total number of pistons.

2,639,674
OIL WELL PUMP CLEANER
Ray H. Reese, Fillmore, Calif., assignor to Fillmore Improvement Company, Fillmore, Calif., a corporation of California
Application June 13, 1949, Serial No. 98,741
9 Claims. (Cl. 103—204)

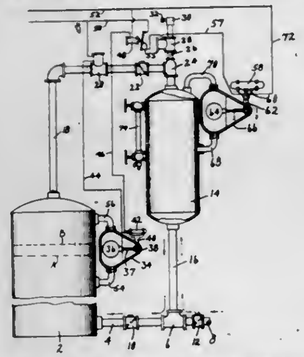


1. In an oil well pump: a pump column, a plunger therein, a sucker rod reciprocable therein and including a plurality of hollow sections providing a continuous passage therethrough, a coupling connecting two selected hollow sections of the sucker rod at a point above the plunger and formed with a chamber in communication with the passage in said sucker rod sections, said chamber having a closure at its lower end against flow of a fluid therebelow and having peripheral outlets above said closure, a normally closed valve in said coupling for regulating flow of a fluid from said sucker rod passage through said chamber and said outlets into the pump column, and other sucker rod sections connecting said coupling at a point below said closure with said plunger, whereby said valve will be opened and closed to discharge and prevent discharge respectively of a fluid into the pump column at corresponding strokes of the plunger.

2,639,675
AUTOMATIC BOILER FEED
Philip H. Williams, San Jose, Calif.
Application November 18, 1946, Serial No. 710,485
1 Claim. (Cl. 103—253)

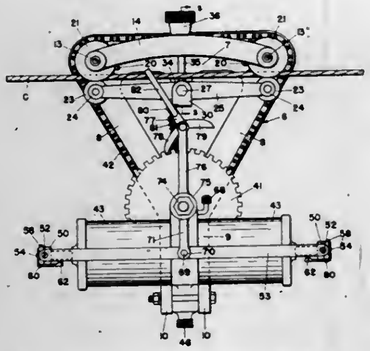
A boiler feed device for feeding water from a source having no head at atmospheric pressures, comprising a boiler having a steam pressure area, an elevated feed tank having an inlet pipe from said source and an outlet pipe to said boiler, valve means in said pipes to prevent reverse flow, a steam pressure pipe communicating the steam area of the boiler and the tank, a vent pipe for the tank, a normally closed electrically operated valve in said vent pipe, a normally closed electrically operated valve in said steam pressure pipe, control means actuated by the falling and rising water level in said boiler and including an electrically powered circuit and a switch operatively connected for actuating said second named valve,

and control means actuated by the rising water level in said tank and including an electrically



powered circuit and a switch operatively connected for momentarily opening said vent.

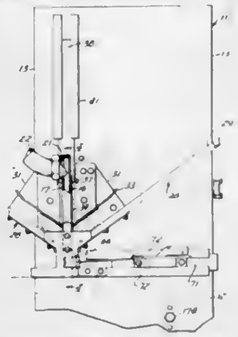
2,639,676
CABLE SUPPORTED PROPELLING DEVICE
Paul N. Travis and Gene A. Garske, Spokane, Wash.
Application December 4, 1950, Serial No. 199,030
2 Claims. (Cl. 105—153)



1. A propelling device comprising a frame, drive pulleys journalled on the frame and adapted to frictionally engage a monorail and having power transmission means associated therewith, a toothed wheel journalled on said frame and adapted to actuate said power transmission means, a crank arm oscillated by a fluid pressure motor carried by said frame, a spring held reversible drive dog pivotally mounted on the free end of said crank arm and disposed to rotate said toothed wheel, and means adapted to pivot said dog whereby the direction of rotation of said toothed wheel may be reversed.

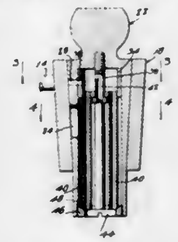
2,639,677
SANDWICH MACHINE
Swan F. Anderson, Rockford, Ill., assignor of one-half to himself and one-half to Ralph F. Anderson, both of Rockford, Ill.
Application December 27, 1949, Serial No. 135,134
17 Claims. (Cl. 107—1)

1. In a machine for forming a succession of sandwiches, means for continuously advancing a ribbon-like web of plastic comestible, means for advancing wafers of approximately web width into face-to-face relationship on opposite sides



of said web and means for concurrently operating said wafer-advancing means in timed relationship with the rate of flow of said web.

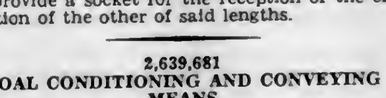
2,639,678
DISPENSER
Philip Martin, North Hollywood, Calif., assignor to Foster's Freeze National Corporation, Los Angeles, Calif., a corporation of California
Application April 29, 1950, Serial No. 158,966
11 Claims. (Cl. 107—1)



1. A device for mixing flavoring material with frozen mix comprising: a sleeve provided with an inlet for frozen mix and an inlet for flavoring material, a hollow rotatable plug member fitted within said sleeve and closing one end thereof and provided with an opening corresponding to the inlet for frozen mix and an opening corresponding to said inlet for flavoring material so positioned that said openings register with said inlets at the same time upon rotation of said plug member, a cup member secured within said hollow plug member and having an opening registering with said opening for flavoring material in said plug member and provided with at least one discharge opening.

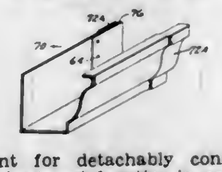
2,639,679
COMBINATION THROUGH-WALL FLASHING AND RECEIVER FOR SIDE-WALL FLASHING
Edward J. Finn, Naugatuck, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application August 29, 1950, Serial No. 182,046
1 Claim. (Cl. 108—26)

A flashing, comprising a continuously corrugated sheet of resilient metal having its corrugations extending substantially longitudinally of the sheet, said sheet having at one end of a major length thereof a reversely bent first corrugated clamping sheet length underlying an adjacent marginal portion of said major sheet length in close proximity thereto, and a second corrugated clamping sheet length reversely bent at the inner edge of said first clamping sheet



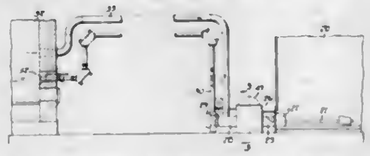
length into underlying relation with and close proximity to the latter so that said first and second clamping sheet lengths combine to form an outwardly opening pocket, whereby the side formed by said first corrugated clamping sheet length is yieldingly compressible plane-wise on forcing counter-flashing into said pocket of the flashing when the latter is installed.

2,639,680
COUPLING FOR JOINING LENGTHS OF TROUGH GUTTERS
James D. Tennison, Jr., Memphis, Tenn.
Application June 18, 1949, Serial No. 100,068
6 Claims. (Cl. 108—28)



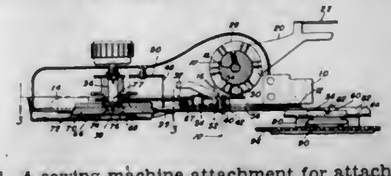
1. A joint for detachably connecting two lengths of sheet metal gutter in contiguous relation, said lengths having a substantially flat bottom and substantially flat side walls making abrupt angles with said bottom, said lengths being of identical cross-sectional configuration and the extremity of one length being offset laterally substantially the thickness of the metal with respect to the opposed extremity of the other length, said joint including a rigid transverse member of complementary cross-sectional configuration fixedly secured to one of said lengths in face to face relationship spaced from an extremity thereof, a free edge of said transverse member being spaced from the adjacent extremity of the length to which said member is secured to provide a socket for the reception of the end portion of the other of said lengths.

2,639,681
COAL CONDITIONING AND CONVEYING MEANS
Ernest C. Webb, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Cleveland, Ohio
Application September 29, 1948, Serial No. 51,672
1 Claim. (Cl. 110—104)



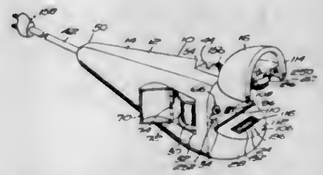
In a pneumatic spreader stoker adapted to take coal from a coal storage means and condition said coal as it transports said coal from said coal storage means to a furnace, a pneumatic conveyor, means for propelling coal conditioning and conveying gas through said pneumatic conveyor, a screw-type conveyor, and means for driving said screw-type conveyor, said pneumatic conveyor comprising a coal transfer section having a horizontally extending conveying gas inlet leg, a vertically extending conveying gas outlet leg, means forming a first chamber within the angle of said legs, means forming a second chamber outside the angle of said legs, means forming an opening between said first chamber and the interior of said vertical leg, means forming an opening between said second chamber and the interior of both said legs, a gate manually positionable to close said last mentioned opening and means adapting said screw conveyor to discharge coal into said first chamber.

2,639,682
SEWING-MACHINE ATTACHMENT
Barnhardt A. Taylor, Columbia, S. C., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application September 8, 1950, Serial No. 183,825
10 Claims. (Cl. 112—115)



1. A sewing machine attachment for attaching buttons having two or more apertures, comprising a supporting frame, a first and a second lever, pivot pins to mount said levers on said frame for oscillatory movement about vertical axes, pivot means connecting one pair of ends of said levers, means to oscillate the first lever and thereby effect oscillation of said second lever, a cloth-engaging foot carried by said second lever, and a buttonholder removably secured to said foot to oscillate therewith.

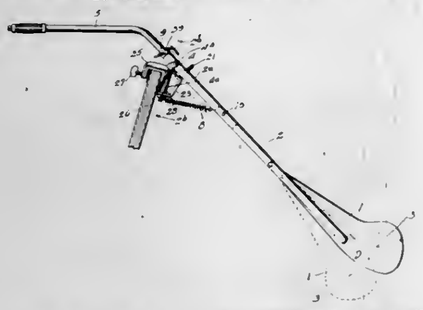
2,639,683
PORTABLE SEWING MACHINE
Harry W. Huntington, Cranston, R. I.
Application January 24, 1949, Serial No. 72,378
9 Claims. (Cl. 112—169)



1. An electric sewing machine for hand operation, comprising a hollow housing having an elongated body section and a head section, said head section having an upper portion and a lower portion, said upper and lower portions being vertically spaced from each other to provide a fabric receiving slot, needle reciprocating mechanism in the upper portion including a drive shaft, thread looping mechanism in the lower portion including

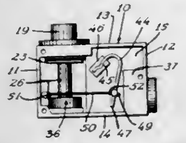
a drive shaft parallel to the needle reciprocating mechanism drive shaft, fabric feeding mechanism keyed on the thread looping drive shaft and extending into said slot, means in said body for supplying thread to said needle, an electric motor in said body, an electric circuit connection for activation of said motor from an external power source, and gearing operatively connecting said motor to the drive shafts of the needle reciprocating and thread looping mechanisms.

2,639,684
SCULLING APPARATUS
Gerard Rauglas, Minneola, Fla.
Application January 10, 1951, Serial No. 205,387
10 Claims. (Cl. 115—30)



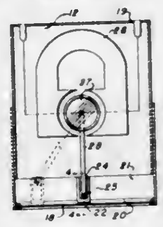
1. A sculling apparatus comprising an oscillatable shaft, a paddle affixed to one end thereof, and means for oscillatably mounting said shaft on a boat to control movement of the latter, said means comprising an elongated bearing member mountable on said boat for oscillation about an axis angularly disposed with respect to the longitudinal axis of said member, first shaft-supporting means mounted within said member coaxial to the longitudinal axis thereof for enabling independent oscillation of said shaft relative to said bearing member upon reaction of the water on the surface of the paddle, second means associated with said first means for limiting said shaft to selected sectors of oscillation relative to said bearing member, and third manually adjustable means mounted on said bearing member and operatively connected to said shaft for releasing the latter from the oscillatory limitations effected by said second means.

2,639,685
TIRE PRESSURE INDICATOR
Herbert G. Benz, St. Paul, Minn.; George W. Benz, executor of the estate of said Herbert G. Benz, deceased
Application February 2, 1951, Serial No. 209,009
7 Claims. (Cl. 116—34)



1. A tire pressure alarm for use in conjunction with a tire valve stem including a casing designed for attachment to the valve stem, a spring urged actuating member within said casing, an alarm member in the path of said actuating member adapted to be struck thereby, a cord holding said actuating member in inoperative position, a chamber in said casing communicating with the valve stem and subject to pressure therein, a plunger urged in one direction by spring pressure and urged in the opposite direction by tire pressure in said chamber, and means carried by the plunger for cutting said cord.

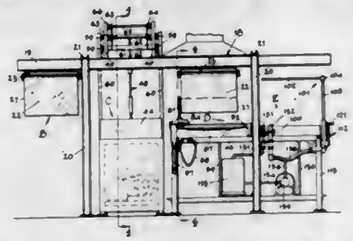
2,639,686
INDICATOR
Richard L. Duncan, United States Navy
Application March 12, 1946, Serial No. 653,924
2 Claims. (Cl. 116—129)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an indicating unit, a housing having a frontal opening, a scale member having a frontal face with graduations thereon, a guide portion constituting a part of said scale member and extending at right angles to said face, said guide portion having an upper surface which is substantially planar and which constitutes a seat, an indicating element slidably seated on said seat and having means forming a rearwardly opening recess in the portion thereof which is located on said seat, a pointer constituting a part of said indicating element and located in parallel relationship to the frontal face of said scale member, an arm mounted at one end in said housing for pivotal movement, and a crosshead at the other end of said arm located in said recess so that upon pivotal movement of said arm said indicating element is moved by said crosshead in precise straight line motion upon the seat of said guide portion.

2,639,687
APPARATUS FOR PRODUCING GLARE SCREENS
Joseph D. Ryan and Paul T. Mattimoe, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application December 4, 1951, Serial No. 259,774
4 Claims. (Cl. 118—75)

1. In apparatus for dyeing predetermined areas of plastic sheets prior to laminating them with sheets of glass to form antiglare screens, a container for a bath of dye solution, a carriage for supporting a plurality of plastic sheets above said bath, means for creating relative movement between said container and said carriage to first immerse said sheets in said bath and to then remove them therefrom, control means associated with said means for creating relative movement for causing said sheets to be moved relatively slowly into said bath at varying speeds for a predetermined distance and to be then removed at a relatively high constant speed from said bath, horizontally movable spray means positioned in proximity to said bath for directing one type of rinsing medium onto the dyed areas of each of said sheets immediately after removal thereof from said dye bath, and additional spray



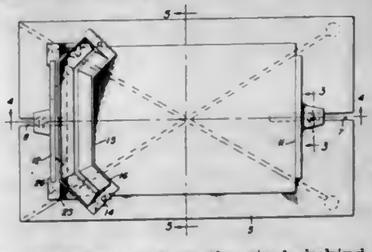
means positioned in proximity to said first-mentioned spray means for directing another type of rinsing medium onto the dyed and rinsed areas of each of said sheets.

2,639,688
DEVICE FOR MOISTENING ADHESIVE LABELS AND FOR FEEDING SHEETS
Jack Napier Procter, London, England, assignor to Samuel Jones & Co., Limited, London, England
Application December 28, 1949, Serial No. 135,492
In Great Britain December 29, 1948
3 Claims. (Cl. 118—236)

1. A label moistening device including a support for a stack of labels permitting frictional engagement of the surface of the front or top label, said support comprising a back plate for said stack, and a fixed plate on which the lower edge of the stack may rest, said back plate having its lower edge hinged to one edge of said fixed plate, means manually operable to move the back plate for the purpose of adjusting the angle of the back plate relatively to said fixed plate through a small range of angles including a right angle, and a label moistening element in the path of a label moved out from the stack across said fixed plate in contact with the latter.

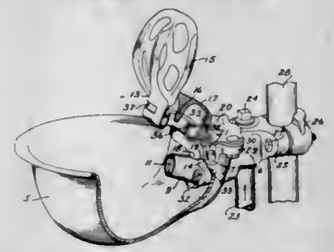
2,639,689
PASTE APPLICATOR FOR WRAPPING PAPER
Louis Derr, Jr., Battle Creek, Iowa
Application July 27, 1950, Serial No. 176,183
2 Claims. (Cl. 118—415)

1. A paste applicator comprising a table adapted to support a stack of sheets of paper thereon for pulling of the sheets forwardly off the stack, a rear stop on said table for vertically aligning the rear edges of the sheets in the stacks, a slotted paste dispensing tank extending across the rear edge of the stack and having forwardly inclined ends extending diagonally of the rear edges of the stack to expose the rear upper corners of the stack and being connected to the table for vertical sliding movement of the tank downwardly onto the stack, a gravity slide on the rear stop extending across the stack and having forwardly extending lateral heads overlying the



rear exposed corners of the stack behind said ends of the tank, and paper holding means carried by said heads in the rear of said inclined ends and penetrating the uppermost sheets at the rear corners of the stack.

2,639,690
ANIMAL ACTUATED DRINKING FOUNTAIN
August F. Klinzing, Milwaukee, Wis.
Application December 29, 1950, Serial No. 203,475
4 Claims. (Cl. 119—75)



1. In an animal drinking fountain, a liquid confining bowl, an annular jet delivering valve communicating with the bowl interior, a nose actuable lever swingably suspended near one end upon said bowl and having a nose plate at its opposite end movable within the bowl, the medial portion of said lever having a projection cooperable with said valve to open the same when said nose plate is depressed, and an annular toroid wall carried by said lever and cooperating with said projection to reverse and decelerate said jet.

2,639,691
ANTIPICKING DEVICE
Carl J. Zurlo, Marysville, Wash.
Application May 31, 1949, Serial No. 96,221
1 Claim. (Cl. 119—97)



An anti-picking device for application to the end of a chicken's upper beak comprising a metal plate, the length of which is substantially

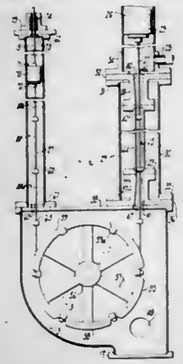
twice the width and formed with a medial, rounded body portion, one end portion thereof disposed inwardly and tapered to a single V-shaped point and the other end portion disposed inwardly and formed with two laterally spaced, V-shaped points; said inwardly disposed pointed end portions being adapted to holdingly engage the chicken's beak.

2,639,692

DEVICE FOR SEALING WIRE LINES, INCLUDING A CABLE HAVING SPACED SEALING MEMBERS

Edward G. Akers, Glendale, Calif., assignor to M. O. Johnston, Glendale, Calif.

Application April 23, 1949, Serial No. 89,351
5 Claims. (Cl. 121—46)



1. A device of the character described comprising a cylinder having an opening for ingress and egress of fluid pressure, a piston reciprocable therein, a cable fixed at one end to said piston, means for sealing said cable comprising a tubular sealing member having a guide throat at each end, one of said guide throats communicating with said cylinder, and sealing members affixed to said cable in axially spaced relationship and in slidable, sealing engagement with said tubular member, the spacing of successive sealing members being less than the length of said tubular member, a chamber communicating with the other guide throat and having an opening for communicating with a large volume of hydraulic fluid at a low pressure, a sprocket rotatably mounted within said chamber and having radially spaced means for receiving said sealing members, an auxiliary cylinder communicating with said chamber, a wiping piston in slidable, sealing engagement with said auxiliary cylinder and fixed to the other end of said cable, a wire line fixed to the other end of said wiper piston, and annular cable wiping means disposed at the upper end of said auxiliary cylinder, slidably receiving said wire line and operable to wipe the same free of dirt and the like.

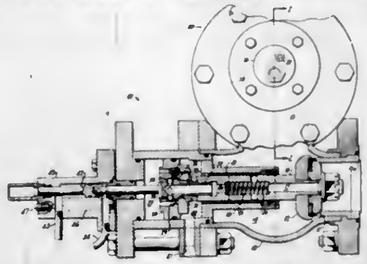
2,639,693

HYDRAULIC CONTROL VALVE AND SYSTEM

Raymond S. Miller, Hollywood, and George W. Sinclair, Los Angeles, Calif., assignors to M. O. Johnston, Glendale, Calif.

Application April 23, 1949, Serial No. 89,321
5 Claims. (Cl. 121—46.4)

1. An hydraulic control system comprising a floating inlet valve spring pressed toward closed position and being operable as a check valve to prevent return of fluid when pressure on the outlet side thereof exceeds pressure on the inlet side, an outlet valve normally closed by outlet pressure, means for controlling the opening of said inlet valve, means for opening said outlet valve



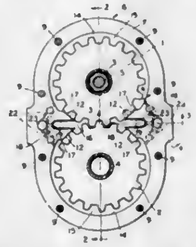
and means for synchronizing said inlet valve and outlet valve control means operable to maintain said outlet valve closed while pressure is being delivered through said inlet valve and to close said inlet valve when pressure is relieved through said outlet valve.

2,639,694

GEAR MOTOR OR PUMP

James P. Johnson, Shaker Heights, Ohio

Application April 12, 1949, Serial No. 87,103
4 Claims. (Cl. 121—70)



1. In a gear unit, a housing formed with a cavity therein, a pair of intermeshing gears rotatable in such cavity and dividing the latter into two chambers each on opposite sides of the point of gear intermesh and extending around a minor portion of the periphery of said gears and two other chambers each disposed between such first-named chambers and extending around a major portion of the periphery of the respective gear, said housing being formed with a pair of ports respectively leading to such first-named chambers and with passages leading from each port to both of such other chambers, and check valves in such passages arranged to permit flow of fluid from such other chambers to said ports.

2,639,695

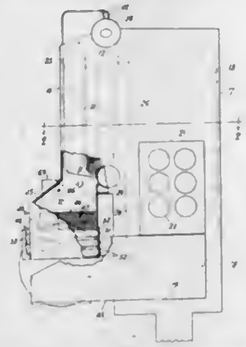
VAPOR GENERATOR

Leon H. Coykendall, Westfield, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application November 5, 1949, Serial No. 125,756
2 Claims. (Cl. 122—1)

2. A vapor generator comprising horizontally disposed upper and lower drums, vapor generating tubes extending upright between said drums

and connected thereto along the length thereof, an upright partition forming the inner side wall boundary of a combustion chamber laterally adjoining the space containing said tubes and separated therefrom except at one end by said partition so as to provide a heating gas entrance to said space, said combustion chamber extending downwardly past said lower drum so as to form an exterior recess between an outer side wall boundary of said chamber and the lower boundary of said space, upright baffle means extending transversely of said partition and arranged to divide said space into a plurality of serially connected gas passes throughout which said tubes are distributed, means for burning fuel in said chamber and effecting a flow of heating gases through said entrance and successively through



said passes in contact with said tubes, said space having a main gas outlet discharging a main gas stream from the lower end portion of the pass farthest from said entrance and having a secondary gas outlet discharging a secondary gas stream from the lower end portion of a preceding one of said passes, an air heater disposed within said recess and having a heating gas inlet and a heated air outlet, dampered conduit means separately connecting said main and secondary gas outlets to said air heater gas inlet, an economizer for heating vaporizable liquid to be fed to one of said drums, said economizer being positioned in said conduit means conducting said main gas stream to said air heater gas inlet, and conduit means conducting heated air from said air heater air outlet to said fuel burning means.

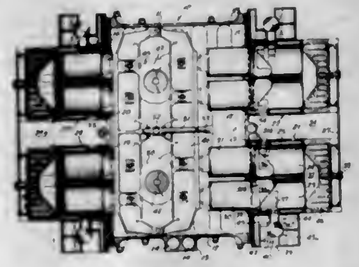
2,639,696

TWO-CYCLE INTERNAL-COMBUSTION ENGINE

Herman V. Stewart, Glendale, Calif.

Application March 19, 1949, Serial No. 82,408
2 Claims. (Cl. 123—53)

1. A two-cycle internal combustion engine comprising two spaced apart cylinder assemblies in side-by-side relation, each cylinder assembly including a pair of parallel cylinders and a cylinder head common to both cylinders and connecting them, a plate member extending between the heads of the cylinder assemblies and forming with the assemblies a passage between said assemblies, means in said cylinder heads to introduce fuel into the cylinders of said assemblies for combustion therein, pistons reciprocable in said cylinders, means connecting all of said pistons for simultaneous reciprocation, intake ports connecting one cylinder of each assembly with said passage, exhaust ports in the other cylinders of said assemblies, all of said ports being covered and uncovered by reciprocation of said pistons, said exhaust port being nearer the cylinder head than the intake port and uncovered and covered by the piston in its corresponding cylinder before and after, respectively, the corresponding intake port is uncovered and covered, a passage for exhaust gases communicating with each exhaust



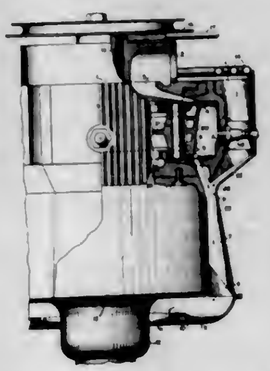
port, a rotary valve member in each passage opening and closing said passage to control escape of exhaust gases through said passage, said valve member having a diametrically extending passage therethrough, and means responsive to reciprocation of said piston for rotating said valve to open the passage before the intake port is uncovered and to close the passage at about the same time the intake passage is covered.

2,639,697

AIR-COOLED INTERNAL-COMBUSTION ENGINE WITH EXHAUST JET

Douglas K. Warner, Sarasota, Fla.

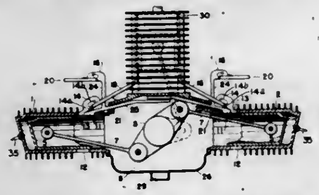
Application December 13, 1945, Serial No. 634,811
3 Claims. (Cl. 123—55)



1. A radial two stroke cycle engine having a bore about three times its stroke, a crankshaft, a single row of cylinders having heads with extensions extended forwardly and rearwardly of said cylinders and said cylinders being grouped about and in a plane perpendicular to said crankshaft, said cylinders being of such dimensions that the heat from the cylinder walls may be readily conveyed to said extensions, fins in said heads and extensions forming straight air passages therebetween, inlet ports in the forward portions of

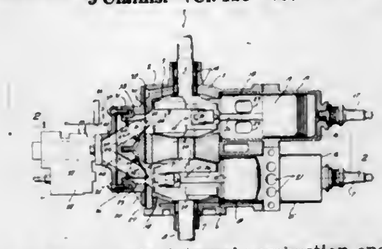
said cylinders and exhaust ports in the opposite portions of said cylinders, a casing surrounding the outer edges of all said cylinder head fins and being contracted at the rear of said fins, partition means between each cylinder extending from the forward extension beyond the contracted portion forming with said contracted portion a passage of reduced cross sectional area, an exhaust passage of approximately cylinder width formed with the side of the rear cylinder head extension and converging with said passage of reduced cross section, a diffusing passage of gradually increasing area beyond the point of convergence and connected to said passage at said point.

2,639,698
INTERNAL-COMBUSTION ENGINE
Charles Harlan Ward, Minneapolis, Minn.
Application October 1, 1947, Serial No. 777,283
5 Claims. (Cl. 123—56)



1. An internal combustion engine having in combination, a pair of oppositely disposed firing cylinders with their remote ends forming the closed or compression ends thereof, a crank case having a closed chamber therein with which the adjacent ends of said cylinders communicate, a crankshaft journaled in said crank case midway between said cylinders, pistons in said cylinders, connecting rods connecting said pistons and crankshaft respectively so that said pistons are simultaneously at maximum compression, a charging cylinder disposed with its axis at right angles to the axis of said firing cylinders and having a much greater capacity than either of said firing cylinders, a charging piston in said charging cylinder directly connected to and directly driven from said crankshaft, a connecting rod connecting said charging piston to said crankshaft, a carburetor connected to said charging cylinder, said firing cylinders having exhaust ports at one side thereof respectively and inlet ports at their opposite sides respectively located and spaced an appreciable distance from the closed ends of said firing cylinders, said ports being arranged to be uncovered and opened by said pistons, said exhaust ports being farther from the closed ends of said firing cylinders than said inlet ports, conduits leading from adjacent the closed end of said charging cylinder to said inlet ports, said charging piston moving over 100 degrees ahead of said first mentioned piston, valves controlling said inlet ports constructed and arranged to open upon the attainment of a certain pressure whereby a combustible mixture under high pressure will be discharged through said inlet ports when uncovered by said pistons and said pressure is attained to open said valves and there will be a rush of said combustible mixture through said inlet ports which will assist in expelling exhaust gases through said exhaust ports and whereby said charging piston by being over 100 degrees in advance of said first mentioned pistons will have a long period in which to create said pressure.

2,639,699
TWO-CYCLE ENGINE AND IMPROVED CRANKCASE INDUCTION MEANS THEREFOR
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application September 1, 1951, Serial No. 244,800
5 Claims. (Cl. 123—73)

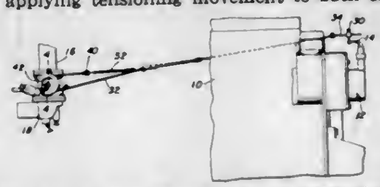


4. In a two-cycle, internal-combustion engine, a crankshaft having a crank throw including a pair of spaced crank arms and a crank pin connecting said crank arms, a piston for the engine cylinder and a rod connecting said piston and the crank pin for reciprocation of the piston, separable crankcase members supporting said crankshaft and defining a crank chamber subject to alternate periods of compression and decompression with the reciprocation of the piston, a carburetor having a mixing passage for air and fuel to be delivered to the engine, one of said crankcase members having a projecting valve body extending into the crank chamber, said valve body having planiform faces relatively angularly disposed and adjoining at the inner end thereof, an induction passage formed in said last named member communicating at one end with said carburetor passage and extending to the end of said valve body and opening from the adjoining faces thereof into the crank chamber in a direction extending between the crank arms of the chamber, and reed valve members secured to the valve body with the free ends thereof extending toward the end of the valve body and normally seated on each planiform face thereof and closing the passage therein, said free ends being flexible for uncovering said passage in response to the induction cycle of the engine and to direct the flow of air and fuel mixture between said crank arms and generally in the direction of piston movement during the induction cycle.

2,639,700
FLEXIBLE GOVERNOR CONTROL FOR INTERNAL-COMBUSTION ENGINE THROTTLE VALVES
Martin F. Peitz, Garden City, Kans.
Application August 25, 1950, Serial No. 181,442
5 Claims. (Cl. 123—108)

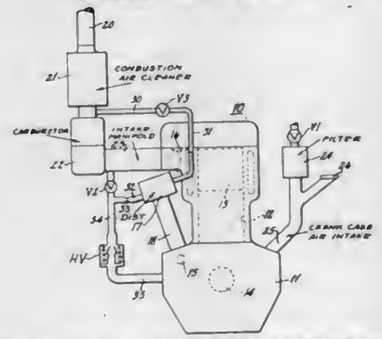
1. A flexible governor control assembly for use with a governor actuating member and a controlled shaft comprising an actuator wheel secured to said controlled shaft, a flexible member entrained about said wheel and having one end secured to said actuating member, means adjustably fixedly securing the portion of said flexible member entrained about said wheel thereto, resilient means operatively connected to said wheel and yieldably tensioning said flexible member, said resilient means comprising a tension spring having one end connected to said wheel, an anchor comprising a body having an aperture for engagement by the other end of said spring means for adjustably mounting said anchor for tensioning said spring, said adjusting means

connecting said anchor to said flexible member for applying tensioning movement to both ends



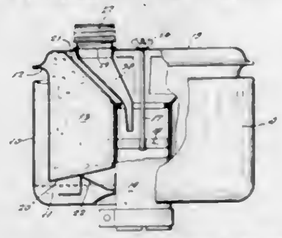
of said spring upon tensioning movement of said flexible member.

2,639,701
VENTILATING SYSTEM FOR SEALED IGNITION DISTRIBUTORS AND ENGINE CRANKCASES
Max G. Bales, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 17, 1951, Serial No. 206,458
6 Claims. (Cl. 123—119)



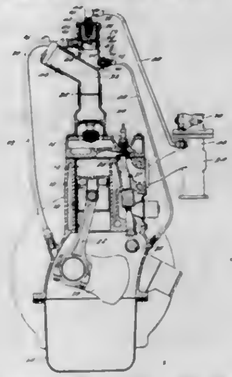
1. A ventilating system for a crank case and a sealed distributor of an internal combustion engine comprising an intake manifold associated with the engine; air entrance ducts associated with the crank-case and the distributor; air outlet ducts associated with the crank case, the distributor, and the intake manifold for ventilating the crank case and the distributor; and valve means for closing the ducts for sealing the ventilating system against entrance of water.

2,639,702
PRIMING DEVICE
Albert Morde, New Bedford, Mass.
Application April 6, 1951, Serial No. 219,605
3 Claims. (Cl. 123—180)



1. A priming device for engines having an air filter, comprising a cup and a duct leading therefrom to the engine intake at a point beyond the air filter material, and a cover for the said cup, whereby starting fuel may be supplied to the engine without passing through the filter material and the normal operation of the engine is not interfered with when said cup is closed by said cover.

2,639,703
OIL CONTROL MEANS FOR POPPET VALVE INTERNAL-COMBUSTION ENGINES
Ralph L. Skinner, Detroit, Mich.
Application May 15, 1948, Serial No. 27,337
4 Claims. (Cl. 123—196)

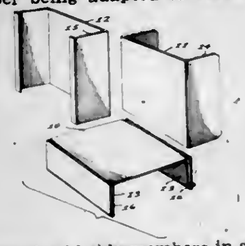


1. In an internal-combustion engine having a crankcase and a fuel intake system normally under vacuum when the engine is in operation, conduit means connecting with the crankcase above the oil level therein and with the fuel intake system so that suction in the fuel intake system reduces the pressure in and draws vapors from the crankcase into the conduit means, a chamber in said conduit means for condensing the lubricant fractions in the vapors, means for heating the condensate in the chamber to a temperature not above approximately the boiling point of water to drive off water and lower boiling fractions from the condensate, means for returning refined lubricant distillate from the chamber back to the crankcase, a valve normally closing communication between the chamber and the fuel intake system, and an expansible and contractible metal bellows connected to the valve at the side thereof adjacent to the fuel intake system and operative when the engine is cold in response to operating conditions of temperature and pressure in the system to open the valve only after the engine has fired and come up to running speed.

2,639,704
MINIATURE KNOCKDOWN STOVE
Peter S. Gilchrist, Jr., Charlotte, N. C.
Application February 13, 1951, Serial No. 210,737
4 Claims. (Cl. 126—43)

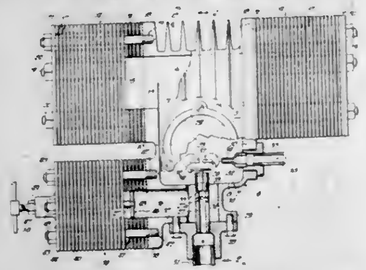
1. A miniature stove of the knockdown type adapted for use with solid fuel tablets comprising a body member and two side members adapted to be separably connected to said body member, said body member having two oppositely disposed edge portions bent at right angles in the same direction and then folded outwardly approximately 180° to form channels, each of said side members having a flat body portion and two oppositely disposed edge portions bent at right

angles in the same direction, the channels of said body member being adapted to receive the flat



body portion of said side members in snug fitting vertically disposed relation.

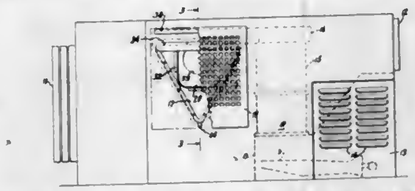
2,639,705
FLAME ARRESTER
William A. Lebus, Chicago, Ill., assignor to The Protectoseal Company, Chicago, Ill., a corporation of Illinois
Application October 25, 1947, Serial No. 782,175
11 Claims. (Cl. 126—85)



1. In a flame arrester for flame observation, the combination of a housing having a combustion chamber therein provided with a glass covered viewing opening in one of its walls, and unrestricted outlet openings in the walls of the housing, a gas burner extending into said chamber, means for igniting gas issuing from said burner, several flame arresting means, each having a passage closed at its outer end and opening to one of said outlet openings in the walls of the housing, each flame arresting means having spaced apart annular members surrounding the passage and providing narrow passages for the escape of products of combustion from the combustion chamber.

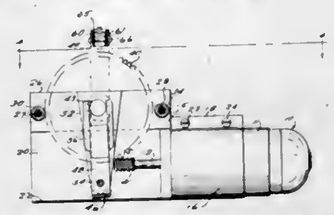
2,639,706
GAS FURNACE AND DRAFT HOOD ASSEMBLY
Samuel F. Ciricillo, Newark, N. J., assignor to General Electric Company, a corporation of New York
Application March 4, 1952, Serial No. 274,744
4 Claims. (Cl. 126—116)

1. A furnace comprising a rectangular casing having a fuel combustion unit therein, means providing a chamber extending substantially across said casing between two opposite side walls thereof for receiving combustion gases from said unit, a draft hood assembly in said casing adjacent said chamber for removing combustion gases from said chamber and for preventing blow-back of gas from outside said casing to said unit, said assembly comprising a duct extending across said casing between said two sides and having open communication with said chamber near both ends, said opposite side walls having openings at the ends of said duct providing communication with the exterior of said casing, a closure plate for one of said openings in said walls, a flue connection formed in said plate, a U-shaped baffle secured to said plate in surrounding relation to said flue connection, flanges on said baffle at the ends of the U, guide tracks on the wall of said chamber adjacent one end for receiving said flanges and for removably retaining said U-shaped baffle in position adjacent the opening at said one end between said chamber and said duct, a baffle plate for closing the opening between said chamber and said duct at the



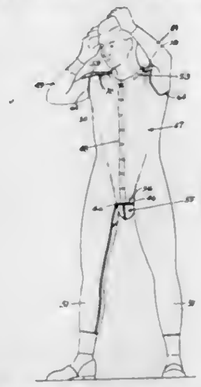
other end of said duct, guide tracks on the wall of said chamber adjacent said other end for receiving the edges of said baffle plate and for removably retaining said baffle plate in position, said U-shaped baffle facilitating the directing of combustion gases into said flue connection during normal operation of the furnace and providing a direct line path from said flue connection to the exterior of said casing through said duct for blow-back of gas from said flue during reverse flow conditions and said baffle plate preventing blow-back to said unit through said other end of said duct, said guides being of substantially the same spacing at both ends of said duct whereby said U-shaped baffle and said baffle plate may be located interchangeably at either end of said duct.

2,639,707
MASSAGE VIBRATOR
David B. Brown, Bellingham, Wash.; Betsy O. Brown, executrix of said David B. Brown, deceased
Application May 16, 1952, Serial No. 288,157
3 Claims. (Cl. 128—49)



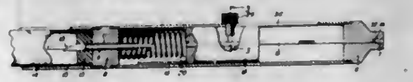
1. A massage vibrator comprising an electric motor having a housing of substantially cylindrical shape and a rotatable shaft projecting from one end of said housing, a casing mounted on said motor housing and including spaced apart side walls extending longitudinally from said one end of the housing, bearing bars disposed between said casing side walls and having aligned apertures one in each bar, means supporting said bars on the side walls of said casing in spaced apart and substantially parallel relationship to each other, a shaft extending through and journaled in the apertures in said bearing bars in transverse and spaced relationship to said motor shaft, a worm gear mounted on said shaft between said bars, a worm on said motor shaft meshing with said worm gear to drive the latter, eccentric cams mounted on said shaft one at each end thereof at the outer sides of said bearing bars and disposed out of phase with each other, U-shaped levers extending through said casing and disposed one at each side of said pair of bars and each having one arm disposed within and one arm outside of said casing, bifurcated cam followers secured one to each lever arm disposed within said casing and receiving the corresponding eccentric cams, means pivotally supporting said levers from said bearing bars for oscillating movement of said levers about a common axis spaced from and substantially parallel to the rotational axis of said shaft, massaging pads disposed one adjacent each lever arm outside of said casing at the ends of said arms remote from said means pivotally mounting said levers on said bearing bars, and means pivotally connecting said pads to the corresponding lever arms for rocking movement about axes disposed substantially perpendicular to the longitudinal center lines of the corresponding lever arms and substantially parallel to said bearing bars.

2,639,708
MAN'S UNDERGARMENT
Franklin Chatfield, Minneapolis, Minn., assignor to Munsingwear, Inc., Minneapolis, Minn., a corporation of Delaware
Application September 13, 1948, Serial No. 49,009
6 Claims. (Cl. 128—159)



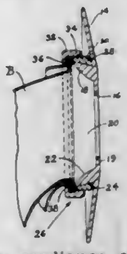
1. A union suit comprising a full length body having its upper portion provided with sleeves and a neck opening, and a lower portion adapted to snugly fit the lower portion of a wearer's torso, an elastic element encircling the neck opening, elastic inserts embodied in the shoulders of the garment, said inserts extending outwardly from the neck opening of the garment and having V-shaped terminals extending slightly into the upper portions of the sleeves and seams securing the opposed edges of said inserts to the body of the garment and having V-shaped portions to secure the V-shaped terminals of the shoulder inserts to the sleeves, whereby the garment is retained in position upon the wearer's body without causing binding or pulling in the crotch and shoulder portions of the garment body when the wearer bends or stoops.

2,639,709
BLOOD EXTRACTING DEVICE
Robert H. Volgenau, Buffalo, N. Y.
Application November 9, 1950, Serial No. 194,854
7 Claims. (Cl. 128—276)



1. A blood extracting device comprising a barrel, a spring ejected extracting needle slidably supported in the barrel for movement inwardly and outwardly at the front end thereof, a test tube holder at the rear end of the barrel adapted for receiving a test tube having a stopper at its front end, a needle supporting member at the junction of the barrel and test tube holder, a rear delivery needle having a sliding connection with the extracting needle and fixed in the needle supporting member in the path of inserting movement of the test tube into the holder and adapted to puncture the stopper of the test tube to deliver blood thereto from the receiving needle, and means slidably carried by the barrel for cocking and releasing the extracting needle.

2,639,710
COLOSTOMY APPLIANCE WITH A REMOVABLE ADAPTER DEVICE
Thomas Fazio, Newton, Mass.
Application April 24, 1951, Serial No. 222,663
4 Claims. (Cl. 128—283)

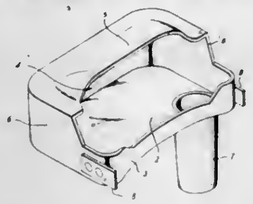


1. A colostomy appliance comprising a connector member having an exterior surface for attachment adjacent a body opening and having an opening therethrough and embodying a neck portion, a male coupling attached to said neck portion and having attaching means, a female coupling having attaching means attachably connected to said neck portion attaching means, a retainer member within said female coupling, a waste bag having an open end portion extending through said retainer member and outside thereof and adjacent the interior of said female coupling.

2,639,711
RECEPTACLE FOR IRRIGATING INTESTINAL TRACT OF COLOSTOMY PATIENTS
Grover C. Smith and Edwin S. Fuller, Houston, Tex.
Application July 5, 1952, Serial No. 297,218
3 Claims. (Cl. 128—283)

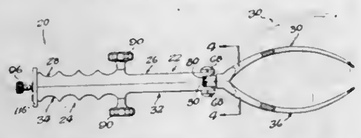
1. Means for irrigating the intestinal tract of colostomy patients comprising a receptacle having a bottom, a front wall, a rear wall, a top wall and a pair of side walls, the front wall being substantially lower than the rear wall and being curved to fit the body of the patient, the top wall and the adjacent portions of the side walls being

cut away at the front and the top wall being curved upwardly from the rear wall and the side walls, a discharge spout extending downwardly from the receptacle and so disposed that it may



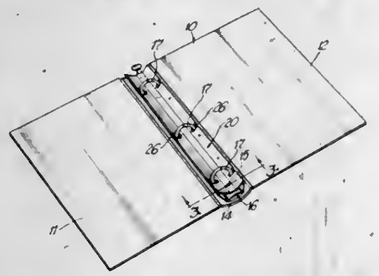
be positioned between the legs of the patient when the patient is in a sitting position, and strap means for securing the receptacle to the body of the patient.

2,639,712
OBSTETRICAL FORCEPS
Anthony Miseo, New York, N. Y.
Application September 28, 1950, Serial No. 187,315
12 Claims. (Cl. 128—323)



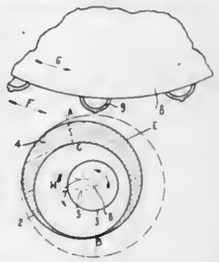
1. An obstetrical forceps comprising two halves, each half including an elongated handle and a blade, means to secure each handle to a different one of said blades, said securing means including means to captively attach the blade to the handle for swiveling movement relative thereto about a pair of perpendicular axes of which one includes the longitudinal axis of the handle, means to render said swiveling movement ineffective at will in any relative position of the blade and handle, and manually manipulative means on the handle remote from the blades to operate said last-named means.

2,639,713
FILLER BLOCK FOR LOOSE-LEAF BINDERS
William McKowen, Des Moines, Iowa
Application August 18, 1951, Serial No. 242,448
7 Claims. (Cl. 129—1)



5. In a loose leaf binder of the class wherein a pair of cover members are hinged to a back member having mounted thereon a plurality of spaced apart substantially circular retaining rings and a shield plate spaced from said back member and having apertures through which said rings extend with more than two-thirds of the arc of the circle of each ring exposed, the combination with said loose leaf binder of an elongated filler block member, separate and apart from said shield plate, having portions adjacent its longitudinal edges adapted to be positioned between said shield plate and said back member and adapted to extend from adjacent said shield plate to intersect the axial projection of said rings at two points so as to block off at least one-third of the arc of the ring circles with said shield plate positioned symmetrically within said blocked off one-third, said filler block member having series of apertures therein adapted for fitting over said rings and accommodating opening and closing movement of said rings, and the central portion of the filler block member forming a longitudinally extending trough having a central bottom strip adapted to engage said shield plate.

2,639,714
COUNTERBEATING DEVICE FOR THRESHING MACHINES
Jean Moullec, Penhars près Quimper, France
Application June 19, 1951, Serial No. 232,375
In France June 30, 1950
14 Claims. (Cl. 130—27)



1. A counter-beating member for threshing machines, comprising a cylindrical body, a trunnion at each end of said body, said trunnions being co-axial with each other, and mutually spaced projections on the periphery of said body, the tops of said projections being flush with a virtual cylindrical envelope, the three axes of said body, of said trunnions and of said envelope being distinct and eccentric with respect to each other, so that said projections stand out high on one side over the surface of said body and the height of said projections progressively decreases towards the opposite side of said body.

2,639,715
MOUTHPIECE CIGARETTE
Desmond Walter Molins, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application December 15, 1950, Serial No. 200,925
In Great Britain September 22, 1949
1 Claim. (Cl. 131—10)

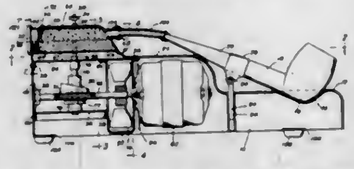
A mouthpiece cigarette comprising a tobacco portion, a stub at one end of the cigarette and adjoining the tobacco portion, and a white cigarette paper wrapper enclosing the said tobacco portion and stub, the whole of said wrapper being sufficiently translucent that the outward appearance of that part of the wrapper which lies over the tobacco portion is darkened by the dark background provided by the tobacco portion,

wherein that surface of the stub which is in contact with the said wrapper has a brown color so as to provide a background which darkens the outward appearance of the part of the wrapper which lies over the stub in such a manner that



the outward appearance of the wrapper is the same along the whole length of the cigarette, while the exposed end surface of the stub is of a color other than the color of tobacco which is easily distinguished from the color of tobacco.

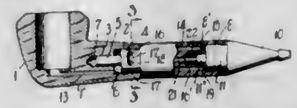
2,639,716
SMOKING PIPE SEASONER AND REJUVENATOR
Santo Bellinghieri, New York, N. Y.
Application May 2, 1946, Serial No. 666,791
2 Claims. (Cl. 131—172)



1. A device of the character described comprising a hollow base member, a horizontal partition dividing the rear portion of said base member into upper and lower compartments, members providing a transversely disposed housing in said upper compartment, an absorbent filtering medium positioned in said housing, openings in a member of said housing providing communication between said housing and a remaining portion of said base member, coupling means for connecting said housing to a flexible connection for connecting a pipe stem to said housing, there being apertures in said partition, a valve for controlling said apertures, a fan in said base member below said partition for creating a suction in said housing, means for actuating said fan, and means operated by said fan to actuate said valve to intermittently control the suction in said housing.

2,639,717
TOBACCO PIPE AND CIGARETTE HOLDER
Rufus E. Barry, Chickasha, Okla.
Application March 24, 1950, Serial No. 151,780
3 Claims. (Cl. 131—213)

1. A tobacco pipe, comprising three separable sections, namely a bowl section, a stem section and a bit section having a stepped socket and a stepped tenon slip joint connection with one another, each stepped tenon slip joint connection comprising a large tenon and a reduced smaller tenon, said sections having a multiple reverting smoke passage comprising longitudinal passages located and respectively extending in a straight line within said stem section, connecting passages for said longitudinal passages opening into and accessible upon separation of said slip joint connections, one of said connecting pas-



sages comprising an annular passage located in the bowl section between the end of the related larger tenon and the end wall of its socket and surrounding the related smaller tenon, one of said longitudinal passages extending through said related larger tenon into communication with said annular passage, and the bowl section having a passage leading to said annular passage.

2,639,718
COMBINED CIGARETTE SUPPORT, EXTINGUISHER, AND ECONOMIZER
Chew Hock Leong, Singapore, Straits Settlements
Application July 16, 1949, Serial No. 105,146
In Great Britain November 4, 1948
1 Claim. (Cl. 131—256)

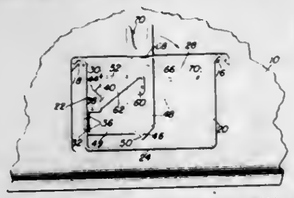


An extinguisher for a cigarette comprising a lower U-shaped channel member of sheet metal having its longitudinal edges in a plane disposed at an acute angle to the longitudinal axis of the base of the channel member, and having ears at their upper ends provided with aligned apertures, and an upper channel member of sheet metal having its longitudinal edges more widely spaced than the longitudinal edges of the lower U-shaped channel member, the base of the upper channel member being flat and extending in a straight line substantially toward the plane of the apertures of the ears and provided thereat with a rolled portion and a pivot pin extending through the rolled portion and supported in the apertures, the concave portions of the channel members facing and overlapping each other, the upper channel member being adapted by gravity to apply pressure to a lighted cigarette to cause extinguishment thereof while the lighted cigarette is supported by the lower U-shaped channel member.

2,639,719
CIGARETTE HOLDER FOR AUTOMOBILE ASH TRAYS
Arthur Smereck, Detroit, Mich., assignor to Product Development Engineering Research and Promotion Corporation, Detroit, Mich., a corporation of Michigan
Application July 6, 1950, Serial No. 172,307
2 Claims. (Cl. 131—257)

1. A cigarette holder comprising a substantially U-shaped resilient bracket mounted on a support and including substantially V-shaped keepers at spaced points, an elongated member pivotally mounted intermediate its ends on the bracket, and cigarette retaining means on one end of the member, the other end thereof being sub-

stantially V-shaped and engageable selectively in the keepers for releasably securing the mem-



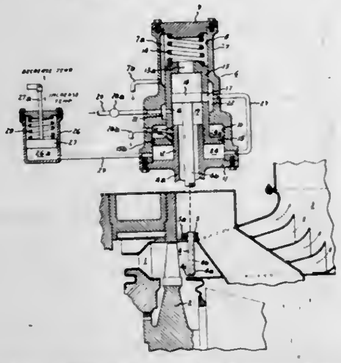
ber in a vertical or horizontal position on the support.

2,639,720
HAIR CURLER
Harry Solloway and Teofil L. Bonkowski, Los Angeles, Calif.
Application August 20, 1949, Serial No. 111,472
5 Claims. (Cl. 132—41)



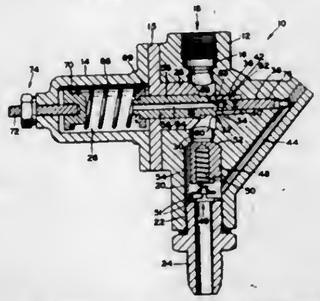
1. As an article of manufacture, a hair curling apparatus comprising: a journal head, a mandrel having a shaft journaled in said journal head, said mandrel being relatively uniform in cross-section and having a plurality of longitudinal ribs angularly disposed thereon and integral therewith, and a locking bar pivotally connected to said journal head, said locking bar having a locking element adjacent each end thereof adapted to engage the depression formed by any two adjacent ribs.

2,639,721
HYDRAULIC SERVO MECHANISM
Eugene E. Strief, Denver, Colo., assignor to General Electric Company, a corporation of New York
Application December 26, 1951, Serial No. 263,437
2 Claims. (Cl. 137—85)



1. Fluid pressure servo mechanism for producing an output signal pressure proportional to an input signal displacement comprising a housing defining a longitudinal bore having an end portion of enlarged diameter, a hollow bushing member slidably disposed in said bore with an enlarged hollow piston end portion in the enlarged end portion of the bore, and end wall members for the respective ends of the housing, a hollow cylinder member secured to the larger end wall member and projecting axially into the enlarged bore portion of the housing, the piston end portion of the bushing being slidably disposed over said cylinder member with the outer circumferential surface of the piston engaging the inner wall of the enlarged bore portion whereby an output signal pressure chamber is defined between said piston, cylinder member, and the adjacent housing walls, compression spring means disposed in the smaller diameter opposite end portion of the housing bore to bias the bushing against the pressure existing in said signal pressure chamber, an input displacement member disposed within said cylinder member and having on the end thereof a pilot disk member slidably disposed in the central bore of the bushing, the bushing defining a first port in one side wall portion thereof for admitting pressure fluid to the chamber defined by the pilot disk and said cylinder member, the end of said bushing remote from the piston defining a second drain port, said bushing having a second side wall portion defining a third port adapted to be covered by the pilot disk when in equilibrium condition, conduit means communicating fluid from said third port to said signal pressure chamber, the housing defining drain ports for removing fluid from the enlarged bore portion of the housing at the opposite side of the piston from said signal pressure chamber and from said second port, whereby movement of the input displacement member in one direction causes the pilot member to admit operating fluid to the signal pressure chamber to bias the piston against the compression spring until the increased force exerted by the spring balances the increased pressure in the signal pressure chamber and the pilot disk again covers said third port, whereas movement of the input displacement member in the opposite direction causes the pilot disk to uncover the port to effect drainage of fluid from the signal output pressure chamber through said drain ports in the bushing end portion and housing until the reduced pressure in the signal pressure chamber causes the spring to move the bushing so the third port is again aligned with the pilot disk.

2,639,722
PUMP UNLOADING VALVE
Walter Dorwin Teague, Jr., Alpine, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application March 21, 1947, Serial No. 736,318
3 Claims. (Cl. 137—108)

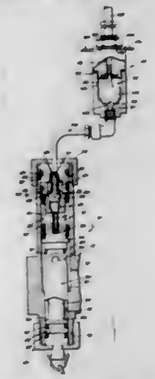


1. A valve assembly comprising a housing having a through conduit including, in alignment,

an inlet adapted to receive fluid under pressure from an outside source, a check valve chamber, and an outlet adapted to communicate with a fluid pressure accumulator, a valve seat in said chamber at the inlet side thereof, a piston slidably mounted in said chamber and adapted at one end thereof to engage said valve seat, a spring normally operative to hold said piston in engagement with said valve seat, said piston having a side passage providing for the passage of fluid through said check valve chamber when said piston is moved away from said valve seat in response to inlet fluid pressure, said piston being responsive to fluid pressure at said outlet to close said check valve chamber to inlet fluid pressure, said housing having a drain chamber communicating with said through conduit including a valve seat normally disposed to said conduit, a drain communicating with said drain chamber, a relief piston having a body portion slidably mounted in said housing and a valve portion of greater cross-sectional area than said body portion, said valve portion being adapted to engage the valve seat of said drain chamber, spring means adjustably mounted in said housing and operatively associated with said relief piston to effect a predetermined bias on said relief piston in a direction whereby said valve portion engages the valve seat of said drain chamber, said relief piston having a constricted portion intermediate the body and valve portion thereof and disposed normally across said through conduit, said constricted portion defining relatively different pressure areas on said body and valve portions of said relief piston, the effective pressure area of said valve portion being greater than the effective pressure area of said body portion and disposed in said conduit whereby fluid pressure passing through said conduit and around said constricted portion effects a predetermined bias on said relief piston in a direction augmenting the biasing effect of said spring means when said valve portion is engaged with said valve seat; a second piston of lesser cross-sectional area than the body and valve portions of said relief piston slidably mounted in said housing and having one end thereof operatively associated with the valve portion of said relief piston, a passage communicating with the check valve chamber at the outlet side thereof and with the opposed end of said second piston whereby fluid pressure at the outlet side of said check valve chamber in excess of the predetermined biasing of the relief piston as aforesaid, actuate said second piston to overcome the predetermined biasing of said relief piston, thereby unseating the valve portion of the relief piston from said valve seat and permitting fluid from said inlet to flow through said drain chamber to said drain, and simultaneously moves the piston in said check valve chamber in a direction to close said check valve chamber to said inlet, said relatively different pressure areas being effective when said valve portion is unseated from said valve seat to assist movement of said relief piston against said spring means.

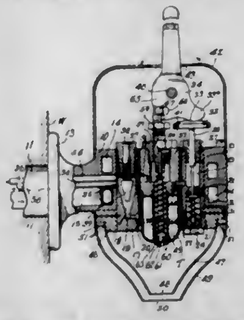
2,639,723
MULTIWAY VALVE
Daniel H. Bierman, Elmont, Joseph A. Jawett, Jamaica, and Arthur D. Bierman, Elmont, N. Y., assignors to Liquidepth Indicators Incorporated, Long Island City, N. Y., a corporation
Application January 30, 1950, Serial No. 141,274
18 Claims. (Cl. 137—269)

1. A tank contents indicating system comprising an air bell in a vented liquid tank near the bottom thereof and an air line connecting the air bell with an air pressure indicator outside the tank, a valve in said air line having an outlet and provisions for releasably mounting a conduit in communication with said outlet, said valve having a member shiftable relative to said outlet into positions in which to provide com-



munication between the air bell and indicator and between the air bell and said outlet, respectively, and coupling means formed complementary to said mounting provisions, said valve member being shiftable in response to the cooperative association of said coupling means and said valve member.

2,639,724
REFRIGERATED LIQUID DISPENSING UNIT
Abraham J. Cohen, Samuel Levine, Morris Caminear, and Stephen S. Price, New Haven, Conn.
Application September 1, 1950, Serial No. 182,826
3 Claims. (Cl. 137—334)



1. A liquid dispensing unit of the class described comprised comprising a housing, said housing having a cooling agent receiving channel, said housing having a liquid receiving socket, means for regulating the flow of liquid through the socket, means for supplying liquid under pressure to said socket, a dispensing element in said housing and having a reservoir communicating with said socket for receiving liquid under pressure from the socket, said element having a chamber provided with a port communicating with said reservoir, a normally closed valve controlling the flow of liquid from the reservoir to the chamber, said housing having means for dispensing liquid from

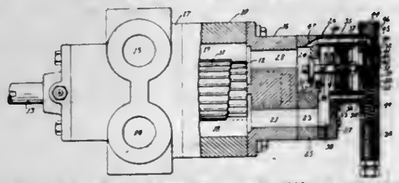
said element when said valve is opened, a plurality of auxiliary dispensing elements carried by said housing offset laterally and rearwardly of the first mentioned dispensing element; each auxiliary dispensing element having a reservoir, a discharge valve mechanism for each auxiliary reservoir, said valve mechanism comprising a valve stem and a discharge port normally closed by the valve stem, a rocker lever mounted on a horizontal pivot above said dispensing elements, means carried by the last mentioned valve stem engageable with said rocker lever for opening said port to dispense liquid from said auxiliary reservoir, means carried by said rocker lever for engaging said valve of said first mentioned reservoir to simultaneously open the valves of all dispensing elements as said rocker lever is swung in one direction, and means for supplying a selected liquid to each dispensing element.

2,639,725

PILOT OPERATED RELIEF VALVE FOR PUMPS AND THE LIKE

John R. Albright, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

Application April 29, 1946, Serial No. 665,787
12 Claims. (Cl. 137—492)



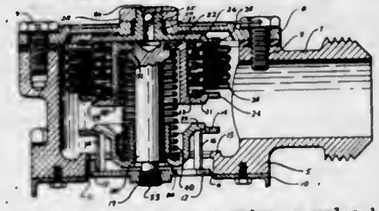
12. In a relief valve for use with a pressure fluid system, the combination of a body having a high pressure passage and a low pressure passage for connection respectively to high and low pressure fluid sources, a main valve arranged between said passages, a movable member having a larger cross-sectional area than the main valve operatively connected to the main valve to open the same against the pressure in the high pressure passage when the pressure differential between the high and low pressure passages exceeds a predetermined amount, spring means biasing the main valve toward closed position, means defining a chamber for said movable member having one end at one side of said movable member in fluid communication with one of said passages leading to one side of the main valve to effect communication between the corresponding fluid source and both said one side of the main valve and said one side of the movable member in said chamber, pilot valve body means, means providing fluid communication between said pilot valve body means and the opposite end of the chamber and between said pilot valve body means and the high and low fluid pressure sources respectively, movable valve means in direct communication with both the high and low pressure sources and movable thereby in said pilot valve body means between preselected positions in response to preselected pressure differentials between said high and low pressure sources for controlling the admission and discharge of pressure fluid to and from said opposite end of the chamber, said movable valve means being movable in one direction when the pressure differential between said high and low pressure sources exceeds a predetermined amount, and resilient means for moving said movable valve means in the opposite direction when the pressure differential between the high and low pressure sources is at a preselected value below said predetermined amount, said movable valve means in one extreme position thereof being positioned to block said opposite end of the chamber from communication with the fluid source which is in communication with said one end of the chamber and being positioned to open communication between said opposite end of the chamber and the other fluid source whereby the resulting fluid pressure unbalance in the chamber on opposite sides of the movable member displaces the movable member to move the main valve to an open position, said movable valve means in the other extreme position thereof being positioned to block communication between said opposite end of the chamber and said other fluid source and to open communication between said opposite end of the chamber and the fluid source which communicates with said one end of the chamber whereby the pressure at opposite sides of the movable member is balanced and the spring means moves the valve to its closed position, and said movable valve means in an intermediate position thereof between said extreme positions being positioned to block both fluid sources from communication with said opposite end of the chamber.

2,639,726

APPARATUS FOR CONTROLLING THE PRESSURE IN LIQUID CONTAINERS

John E. Golob, Dayton, Ohio, assignor to Standard-Thompson Corporation, Dayton, Ohio, a corporation of Delaware

Application June 14, 1947, Serial No. 754,680
11 Claims. (Cl. 137—493)



9. In a pressure control valve, a valve body having a passage formed therein, valve means for controlling the flow of fluid from a first portion of said passage to a second portion of said passage, said valve means including a sealed bellows responsive to variations in the pressure in said first portion of said passage to control the flow of fluid between said first and second portions of said passage, said valve means including means operable by a predetermined excessive pressure in said second portion of said passage for connecting said first and second portions of said passage.

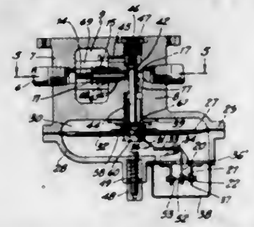
2,639,727

VALVE STRUCTURE

William Alton Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California

Original application May 6, 1947, Serial No. 746,409. Divided and this application March 6, 1950, Serial No. 147,856
4 Claims. (Cl. 137—599)

4. In a fluid control structure: a valve body having an inlet passage, an intermediate chamber and an outlet passage; said intermediate chamber being in communication with the passages; means in said chamber for closing the outlet passage; said body providing an alternate passage from the chamber to the outlet passage; a movable valve closure for said alternate passage; a movable wall cooperating with a wall of the valve body, and defining a space; there being



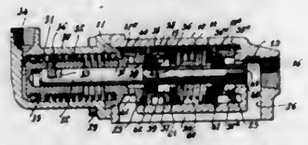
a port between the outlet passageway and said space, to pressurize said space; said port being independent of said closure; said body having a bore communicating with the port; a guide sleeve attached to the movable wall and guided in the bore; said valve closure having a stem extending into the sleeve; and means for moving the wall to engage the stem and unseat the valve closure.

2,639,728

FOUR-WAY VALVE

Joseph Briechle, Floral Park, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application January 4, 1950, Serial No. 136,770
9 Claims. (Cl. 137—622)



1. In a multiple-way valve mechanism, the combination of a body having a cylindrical bore, a pair of axially spaced annular packing seals dividing said bore into two end chambers in which alternately fluid pressure is to be established, a pressure fluid supply passage between said packing seals adapted to be selectively placed in communication with each of said two chambers through the central openings in said packing seals, said packing seals each having a valve seat reversely arranged relatively to the other and directed toward an end chamber, an exhaust valve seat at the remote end of each of the chambers directed toward one another, an axially movable shaft extending through said chambers and having fixedly mounted thereon a pair of axially spaced double-acting poppet valve members each adapted for coacting with a valve seat on the packing seal and a valve seat of a respective chamber to close simultaneously the supply of pressure fluid to one chamber and the exhaust of pressure from the other chamber.

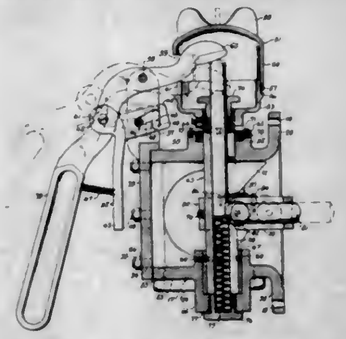
2,639,729

VALVE SELECTOR AND ACTUATOR FOR FLUID FLOW MANIFOLDS

Pasqual C. Tulumello, Los Angeles, and Domenico Franceschi, Alhambra, Calif.

Application April 29, 1946, Serial No. 665,840
1 Claim. (Cl. 137—635)

A cooperative selector and discharge mechanism for use with a fluid discharge manifold to control the flow of fluid therethrough including a rotatable selector means, said selector means including cap means mounted upon the exterior of said fluid discharge manifold upon a selector shaft depending into said manifold and rotatable therein, a discharge means associated with said selector means and whose operation is positively controlled by said selector means, said discharge means including a reciprocable discharge shaft mounted coaxially within said selector shaft, valve



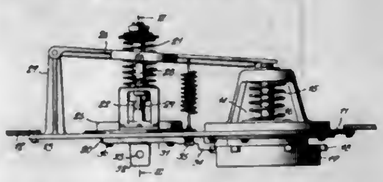
means having their longitudinal axes disposed normal to the axis of said shafts, and reciprocable pin means mounted on and adapted to be rotated by said selector shaft to contiguity with one of said valve means and driven into valve opening contact with said valve means by the reciprocation of said discharge shaft, and indexing means comprising means to prevent the actuation of said discharge means until said selector means is accurately registered with said discharge means.

2,639,730

COMBINATION FUELING AND RELIEF VALVE

James Coolidge Carter, Pasadena, Calif., assignor to The J. C. Carter Company, Pasadena, Calif., a corporation of California

Application June 6, 1947, Serial No. 752,976
11 Claims. (Cl. 137—734)



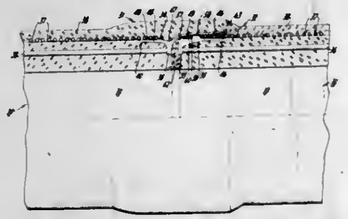
1. In apparatus of the class described the combination of supporting means having a pair of ports giving access to a tank, a spring-loaded fueling nozzle valve controlling one of said ports and adapted to be moved inwardly to gain access to said tank for filling, a relief valve controlling the other port and including a stem extending inwardly through its port and located adjacent said fueling nozzle valve, a third valve surrounding the stem of said relief valve and movable independently of said relief valve, and adapted to seal the inner end of the relief valve port, and an operating connection connected to said fueling valve and third valve to move said fueling valve and third valve simultaneously from closed position to open position whereby simultaneous opening and closing of said valves is effected.

2,639,731

REINFORCED CONCRETE PIPE

William A. Whiting, Long Beach, Calif., assignor to American Pipe and Construction Co., Los Angeles, Calif., a corporation of Delaware

Application July 11, 1949, Serial No. 103,971
1 Claim. (Cl. 138—84)



A pipe structure comprising a pre-cast tubular cementitious body having a bell end and a spigot end, longitudinal reinforcement rods under tension embedded in the body, a bell band having a radially and inwardly extending flange, a longitudinally and circumferentially extending flange and an outwardly extending bell portion lining the bell, said reinforcement rods being secured to the radially and inwardly extending flange of the bell band, said longitudinally and circumferentially extending flange being of a thin compressible structure and having a radially and inwardly extending flange at its terminal, a spigot band having a forward shoulder, a rearward shoulder and a recess formed intermediate said shoulders, said recess adapted to receive a sealing gasket, a radially and inwardly extending flange formed at the forward shoulder of said spigot band and secured to the longitudinal reinforcement rods, a longitudinally and circumferentially extending flange formed at the rearward shoulder of said spigot band, said flange being of a thin compressible structure and having a radially and inwardly extending flange formed at its terminal, circumferential reinforcement cables under tension spaced axially along said body to include each longitudinal and cricumferential flange of the bell and spigot band, thereby compressing said flanges into the body so as to form a liquid tight seal therewith, and a circumferential coating of cementitious material embedding said circumferential cables and coating the body.

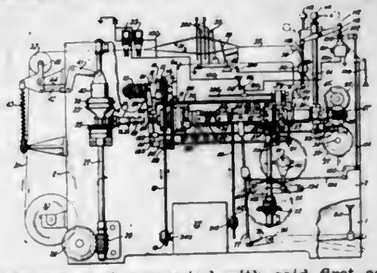
2,639,732

WEAVING MACHINERY AND CONTROL

Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland

Application August 8, 1947, Serial No. 767,418
In Switzerland March 5, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 5, 1965
13 Claims. (Cl. 139—1)

12. In a loom for weaving, individual operating mechanisms, a source of power, loom drive means connected with said mechanisms, clutch means interposed between said source and said drive means, a normal loom operation clutch engaged during normal weaving, auxiliary drive means connected with said source, an auxiliary clutch connecting and disconnecting said auxiliary drive means and one of said mechanisms and linked with said normal loom operation clutch, first control means responsive to weaving irregularities and being connected to and actuating said clutch means, and safety control means connected with and responsive to the operating conditions of one of said operating



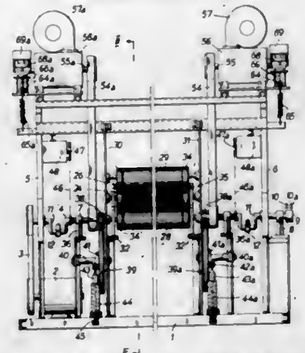
mechanisms and connected with said first control means.

2,639,733

LENO-WEAVE LOOM

Johann Bamert, Gibswil, Switzerland, assignor to Keller & Co., Neuthal, Gibswil, Switzerland

Application March 20, 1951, Serial No. 216,490
In Switzerland June 3, 1950
11 Claims. (Cl. 139—50)



1. In a leno-weave loom operating by means of thread-guiding elements apertured for the passage of warp threads to be interconnected, the said elements being oscillated through a gear drive for the purpose of producing the leno weave, the weft thread being picked in the terminal positions of said elements, a reversible motor for oscillating the gear drive of said elements, means for controlling the motor from the loom mechanism, a self-acting brake associated with the motor, and at least one stop means associated with the gear drive and adapted to become effective together with the said brake.

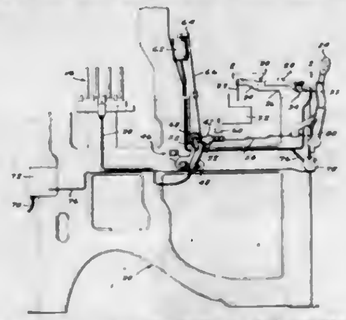
2,639,734

STOP MOTION MECHANISM FOR LOOMS

William P. Brock and Cecil Neal, Lancaster, S. C., assignors to The Springs Cotton Mills, a corporation of South Carolina

Application June 1, 1951, Serial No. 229,334
4 Claims. (Cl. 139—349)

4. In a loom having a warp failure detecting means and incorporating a filling feeler fork and a slide on which said fork is pivoted, stop motion mechanism comprising: a first knock-off dog; means for actuating said first dog from said warp failure detecting means; a second knock-off dog; means for actuating said second dog from said filling feeler fork and slide, said last mentioned means comprising a stand member for said slide, an electrical contact on said stand member and insulated therefrom, a lever pivoted on said stand member for movement by said slide to make said contact but normally spaced from said contact,



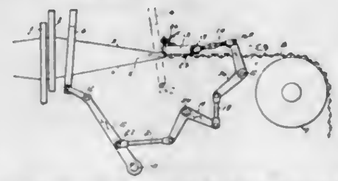
an electrical circuit including said contact, and means actuated by said electrical circuit for operating said knock-off dog upon making of said contact; and a common mounting means carrying said first and second knock-off dogs for independent operation and thereby rendering said stop motion mechanism responsive selectively or concurrently to warp and filling failures.

2,639,735

FLAW DETECTOR FOR WIRE MESH LOOMS

Nickolas W. Fisher, Cleveland, Ohio

Application February 13, 1950, Serial No. 143,923
9 Claims. (Cl. 139—352)



1. In a loom of the type that weaves wire screen and advances the woven wire screen substantially horizontally forwardly from a fell, and comprises a reciprocatory beater; a feeler carrier comprising a body supported on the upper side of the woven screen; power mechanism for reciprocating it thereon rearwardly toward and forwardly away from the screen fell, in synchronism with the beater and in the same directions as the beater; a metal feeler comprising a lower edge portion on a rearward part of the carrier extending transversely of the screen; adjusting means to adjustably dispose the feeler with its edge portion in closely spaced relation to the screen, and parallel with the fell, and, at the rearward limit of motion of the carrier, rearwardly beyond the fell.

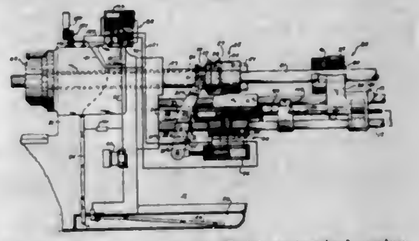
2,639,736

MACHINE TOOL FEED

Fay M. Tomlinson, Lakewood, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application September 30, 1947, Serial No. 777,031
12 Claims. (Cl. 140—130.2)

11. In a machine tool of the character described for operating upon bar stock and having a work-holding chuck adapted to grip a portion of the bar stock operated upon, the combination of a bar feeding chuck, a fluid actuated piston operatively connected to said work-holding chuck to operate the latter, a second fluid actuated piston operatively connected to said bar feeding chuck to bodily move the latter, fluid actuated valve means between said first and second pistons operative to selectively control the supplying of fluid under pressure to either side of said second piston, valve means for selectively applying fluid under pressure to either side of the first-mentioned piston and to said fluid actuated valve means for effecting operation of the latter and of said work-holding chuck, and fluid passageways uncovered by movement of the first-mentioned piston at either extreme of its extent of movement for conducting a portion of the fluid supplied thereto through the said fluid actuated valve means to the said second piston at that side thereof as determined by the actuated position of the fluid actuated valve means, whereby the bar stock feeding chuck is moved only after the work-holding chuck has been fully operated.

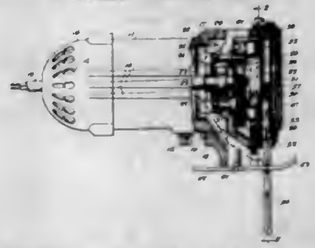


2,639,737

MOTOR DRIVEN RECIPROCATING SAW

Harold S. Forsberg, Shelton, Conn.

Application July 3, 1948, Serial No. 36,840
3 Claims. (Cl. 143—68)



1. A motor driven, reciprocating-blade saw comprising, in combination, a motor enclosed with a housing small enough to be held in the hand, a gear box secured to and forming a closure for one end of the motor housing, a train of gears mounted within the gear box and operatively connected to the motor so as to be driven thereby, said gears including a pair of similar, driven crank gears rotatably mounted in the gear box on opposite sides of the motor axis with their axes parallel to the motor axis, a recessed cover for the gear box, a pair of movable crossheads within said cover, common guide means within said cover for the crossheads slidably engaged thereby and permitting limited movement of the crossheads toward and away from each other along a straight line located in the plane passing through the axes of the crank gears, said line

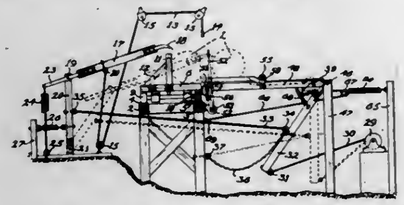
being perpendicular to the motor axis, a crank pin extending from the face of each of the crank gears beyond the gear box into the recessed cover, a slot in each crosshead disposed perpendicular to its line of movement and facing toward one of the crank gears, a rectangular block slidably disposed in each of said slots engaged by the crank pin of the oppositely disposed crank gear, the crank pins and the rectangular blocks providing an operative connection between the crank gears and the crossheads to impart equal and opposite reciprocatory motion to the crossheads along the common guide means when the motor is operating, and a driven member connected at one end to one of the crossheads and passing through the wall of the gear box with its longitudinal axis parallel to the line of movement of the crossheads.

2,639,738

POWER OPERATED PUSH BAR LOG TURNER

John Daubel, Chattaroy, Wash.

Application August 15, 1949, Serial No. 110,347
7 Claims. (Cl. 143—98)



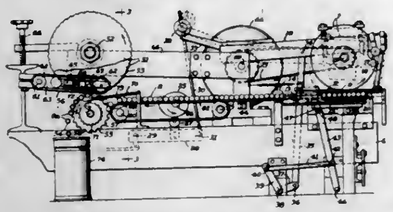
7. In a power operated log turner the combination with a horizontally pivoted frame having a vertically movable forward end and means for tilting the frame, of a slide carrier reciprocable on the frame and guiding means therefor, power operated means for projecting the carrier toward the forward end of said frame, and retracting means secured to said carrier and adapted to return said carrier.

2,639,739

DOWEL PIN CUTTING AND BEVELING MACHINE

Carl L. Johnson, Rockford, Ill.

Application March 21, 1949, Serial No. 82,556
5 Claims. (Cl. 144—30)



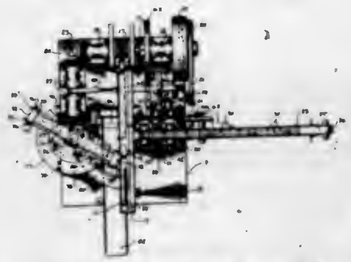
1. In a dowel making machine, a pair of closely spaced coaxial bevelled cutters having their bevel sides disposed toward each other for operation simultaneously on opposite ends of dowel pins fed thereto, means for driving the cutters, a rotary substantially cylindrical work carrier disposed below said cutters having circumferentially spaced recesses provided in the periphery thereof adapted to receive dowel pins with freedom for their rotation while they are being moved into operative contact with the cutters, means for driving said work carrier, an endless flexible friction drive belt disposed substantially horizontally between the cutters over the work carrier and having the lower flight thereof disposed substantially tangent to said work carrier and arranged to transmit drive frictionally to the dowel pins individually and in pairs as they arrive at and pass through the zone of cutting operation relative to the cutters, and means for driving said belt.

2,639,740

MACHINE FOR CUTTING MATCH SPLINTS

Frank Schafer, Oshkosh, Wis., assignor to The Bell Machine Company, Oshkosh, Wis., a corporation of Wisconsin

Application May 19, 1948, Serial No. 27,973
15 Claims. (Cl. 144—42)



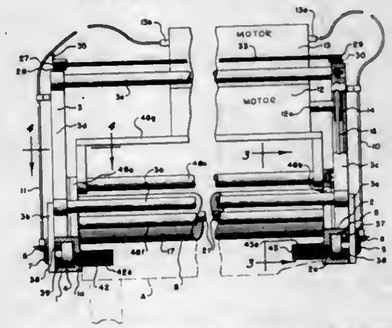
1. In a machine of the character described: block holding means adapted to hold a block of wood with a portion thereof exposed; a rotatable shaft mounted in front of said block holding means; an arm on said shaft; a knife carrier on the outer end of the arm; a gang of spaced slitting knives on the carrier positioned to swing in circular orbits which sweep across the front of said block holder to cut parallel slits in the exposed portion of a block held thereby; and a rigid circular track upon which the outer ends of the arm ride so as to be supported thereby against deflection caused by a tendency of the slitting knives to follow the grain of the block being acted upon.

2,639,741

SELF-PROPELLED WOODWORKING AND FINISHING MACHINE

William G. Taylor and Cleo W. Campbell, San Diego, Calif.

Application September 29, 1950, Serial No. 187,522
4 Claims. (Cl. 144—117)



1. A self-propelled woodworking and finishing machine, comprising a pair of tracks adapted to

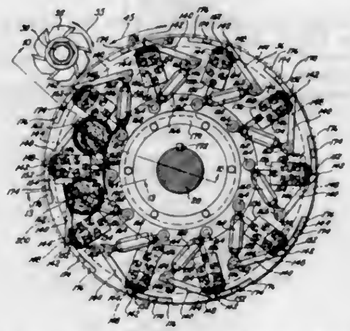
be secured to opposite edges of the work, pairs of rollers on said tracks, a carriage frame supported by said rollers, gear racks in said tracks, gear means on said carriage frame engageable with said racks, means for propelling said gears, and a rotating horizontal cutter bar transversely arranged between said tracks and vertically adjustably mounted on said carriage frame relative to said work, screw means for vertically adjusting said cutter bar and means for rotating said bar.

2,639,742

WEDGE-HEEL SHAPING MACHINE

George R. Constantine and Arthur F. Ball, Haverhill, Mass., assignors to The Service Wood Heel Co., Lawrence, Mass., a corporation of Massachusetts

Application January 21, 1947, Serial No. 723,366
18 Claims. (Cl. 144—142)



1. A wedge-heel-making machine having, in combination, a support, means for clamping a wedge-heel blank to the support with the heel-attaching portion thereof exposed, a pivot shaft, an arm loosely pivoted about the shaft, shaping cutter means mounted on the arm, means for variably pivoting the pivot shaft, means for relatively moving the support and the arm toward each other to cause the exposed heel-attaching portion of the heel blank to be engaged by the cutter means during such relative movement, and cooperating means between the arm and the pivot shaft for connecting the arm to the pivot shaft to cause the cutter means, during such relative movement, to shape the heel-attaching portion of the heel blank substantially to the shape of the heel-and-shank portion of a shoe to which the heel is to be attached.

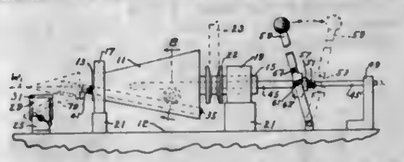
2,639,743

ARTIFICIAL FISHING PLUG AND LURE, ALSO MEANS AND METHOD FOR MAKING

Theodore Pappas and Joseph A. Charette, Detroit, Mich., assignors to Percy Harrison, Wayne County, Mich.

Application October 14, 1950, Serial No. 190,148
4 Claims. (Cl. 144—147)

1. In a bench mounted apparatus for cutting a water scoop recess of conical shape into the lead end of a fishing plug, a rotary member, a reduced bearing at each end of said member, bearing supports on the bench for each of said reduced bearings, said member having an axial guide recess and an inclined guide recess disposed angularly to said axial recess, an actuator rod disposed slidably in said guide recess, manual means for moving said actuator rod axially in said guide recess, a tool-carrying bar having one end adapted for carrying a cutting tool, said tool-carrying bar being slidably disposed in the inclined guide recess with the tool-carrying end movable out of said rotary member beyond the adjacent end bearing and toward its axis of rotation to travel the cutting tool around orbits of decreasing radius as it moves further out of said rotary member, a cutting tool mounted on the projecting end of said tool-carrying bar, clamp means for holding a fishing plug body adjacent the end of the rotary member from



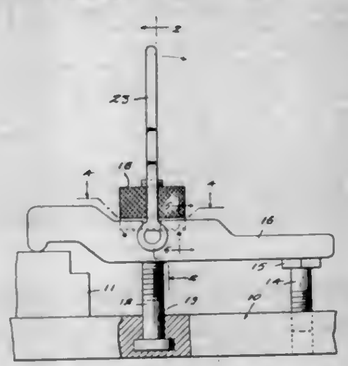
whence the cutting tool may be extended, means operatively interconnecting said actuator rod to said tool-carrying bar intermediate the ends of the rod and bar so that the tool-carrying end of the latter is projected out of the rotary member in accordance with the axial movement of said actuator rod for engaging the cutting tool against the fishing plug as it is extended from the rotary member so that said cutting tool has a radius of rotation which is varied as the tool is moved away from the rotary member by the axial adjustment of the actuator bar therein.

2,639,744

ADJUSTABLE CAM ACTUATED HOLD-DOWN CLAMP

William B. Herbert, Ridgewood, N. J.

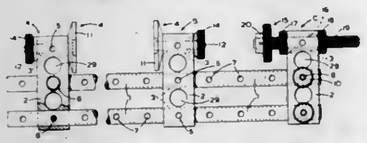
Application March 7, 1951, Serial No. 214,395
2 Claims. (Cl. 144—290)



1. A work clamping means comprising a tool bed having a T-slot therein a clamping body for engaging a workpiece on said tool bed, said body having a vertical bore between the ends thereof said bore terminating in an enlarged socket opening in the upper surface of said clamping body, an upright bolt loosely engaging through said bore, a head on said bolt engaged in said T-slot, a nut threaded on said bolt for adjusting said clamping body relative to said workpiece, a washer interposed between said nut and said body and located within each socket, a pair of aligned substantially cylindrical cam members rotatably carried by said body and extending inwardly into said bore just below the bottom of

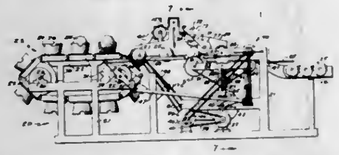
said socket, each cam member having a flat face adapted to be disposed uppermost and confronting said washer when said cam members are in released position, a lever fixed to said cam members, and spring biased pin means carried by said body for adjusting said washer relative to said cam members.

2,639,745
STRAIGHT BEAM CLAMPING AND LIKE MEANS WITH ADJUSTABLE AND INTERCHANGEABLE PADS
Bernard William Dawkins, Southport, England
Application June 25, 1951, Serial No. 233,363
In Great Britain May 20, 1950
2 Claims. (Cl. 144—303)



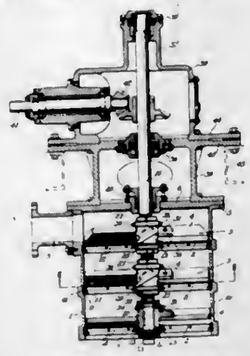
1. Clamping and like means comprising in combination three cross heads each having at least three identical parallel holes therein, together with peg holes transverse to each said parallel hole; at least two longitudinal members interchangeably engaging two of said parallel holes in each cross head, said longitudinal members having spaced transverse peg holes therein adapted to register with the peg holes in said cross heads; pegs passing through peg holes in two of said cross heads and the two longitudinal members for selectively locking said two cross heads along the longitudinal members whilst the third cross head is left slidable thereon; two work engaging members having shank like parts interchangeably engaging other of said parallel holes in one of said pegged cross heads and said slidable cross head; and pressure exerting screw means interchangeably carried by a said parallel hole in the other pegged cross head for acting upon the slidable cross head carrying a work engaging member to move the latter cross head along said longitudinal members, the arrangement of said parallel holes in the cross heads permitting alternative interchangeable arrangements of said longitudinal members, work engaging members and pressure exerting screw means in engagement with said cross heads for forming a clamp, press, jack or the like as required.

2,639,746
FRUIT PEELING AND CORING MACHINE
Angell C. Gross, Harlingen, Tex.
Application September 21, 1950, Serial No. 186,018
5 Claims. (Cl. 146—38)



1. A machine for peeling and coring fruit comprising a frame, a driven endless conveyor mounted on said frame, fruit holding cups mounted on said conveyor, pins greater in length than the cores of said fruit and the diameters of said fruit holding cups, means positioning said pins through said cores and extending from both ends thereof, a longitudinally reciprocating carrier slidably mounted on said frame and positioned opposite the discharge end of said conveyor, said carrier including spaced parallel rails adapted to support said extending ends of said pins, means moving said fruit along said rails, and including a vertically reciprocating holddown plate constructed and arranged to engage said pins on said rail during the return movement of the latter toward said conveyor, rotary cutter means removing the rind from said fruit while impaled on said pins, a coring mechanism mounted on said frame opposite the discharge end of said carrier, means successively positioning said fruit in said corer and receiving said pins within the axial center thereof, and means ejecting said pins outwardly through the axial center of said corer.

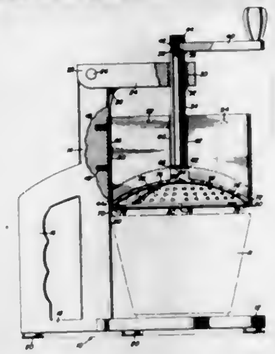
2,639,747
ROTARY GRANULATING MACHINE
Lewis Burn, London, England, Horace Todd, Holywell, Wales, and John Oliver, Coventry, England
Application April 18, 1949, Serial No. 88,207
In Great Britain April 15, 1948
3 Claims. (Cl. 146—175)



1. A granulating machine having an operating shaft, a sieve associated therewith, said shaft having a reduced portion, a bush of less length than and surrounding the reduced portion, said bush having granulating arms rotatable above and co-acting with the surface of said sieve, and means screw-threaded to said shaft engaging said bush above and below and operable to adjust the position of the bush and arms axially along said shaft to vary the height of said arms above the surface of said sieve.

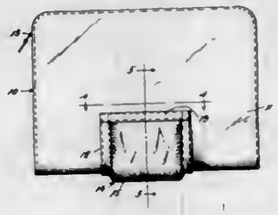
2,639,748
GRATER
Francis D. Peel, Greenville, N. C.
Application March 27, 1950, Serial No. 152,173
5 Claims. (Cl. 146—177)

1. A grater comprising a support, a vertically disposed sleeve mounted on said support and having an inturned lower horizontal flange, a grating member retained in said sleeve and having a peripheral flange resting upon the flange of the sleeve, interlocking means between said member and said sleeve holding the member against rotation in the sleeve, a vertically slidable and rotatable rod carried by said support exteriorly of the sleeve, a pressure member secured to the lower end of said rod, a hollow cylinder journaled for rotation in said sleeve and having a lower end engaging the peripheral flange of the grating member, said pressure member being positioned



in said cylinder, and means carried by said cylinder slidably receiving said pressure member and holding the cylinder to the pressure member for rotation of the cylinder in the sleeve during rotation of the rod.

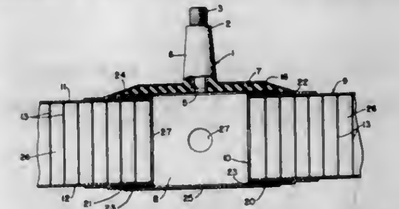
2,639,749
COMBINATION BRIEFCASE AND HAND PROTECTING POCKET
Elmer E. Lee, Minneapolis, Minn.
Application February 15, 1952, Serial No. 271,785
1 Claim. (Cl. 150—1.6)



In a briefcase including two sidewalls and a bottom portion, a strip of material secured to the briefcase at one side thereof and extending under the briefcase and up the opposite side thereof, one end portion and the side portions of the strip being secured to the opposite walls of the briefcase while one end is left open for the insertion of a hand in carrying the briefcase.

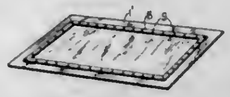
2,639,750
INFLATING MEANS
Walter J. Phane, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application March 7, 1951, Serial No. 214,355
6 Claims. (Cl. 150—9)

1. In an inflatable fabric member embodying two fabric plies having a fluid impervious coating thereon disposed in opposed relation to each other and joined together by a plurality of substantially inextensible tie threads woven at least partially into each of the fabric plies, the marginal edges of said fabric plies being sealed to define a substantially fluid-tight chamber therebetween, an inflating means comprising an open-ended flexible walled conduit extending between the fabric plies and having at least one aperture in the wall thereof communicating with the chamber; a port mounted on one of the fabric



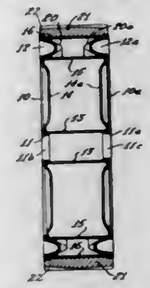
plies and operatively connected to an end of the conduit for admitting fluid under pressure to the chamber; and means on the other fabric ply for closing the other end of the conduit.

2,639,751
COVER FOR VEHICLES
John T. Flaherty, White Plains, N. Y.
Application September 7, 1950, Serial No. 183,602
1 Claim. (Cl. 150—52)



In combination, a vehicle body having an open passenger compartment with peripheral edges of non-magnetic material, a plurality of magnets and means for securing said magnets spaced from each other to the vehicle body adjacent said peripheral edges and on the outer face of the vehicle body, a flexible cover adapted to extend over the compartment, a continuous flexible magnetizable metallic strip fixed to the inner face of the cover and inwardly of its edges, whereby when the cover is extended over the compartment said strip is attracted by said magnets to hold the cover over said compartment.

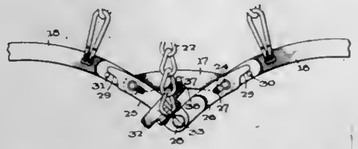
2,639,752
METALLIC RESILIENT WHEEL
George A. Schehr, Cincinnati, Ohio
Application October 28, 1950, Serial No. 192,725
7 Claims. (Cl. 152—74)



1. A metallic wheel comprising a pair of basically planar annular discs each have a relatively deep and narrow annular indentation adjacent its periphery, a cylinder connecting said discs at their inner peripheries, a second cylinder con-

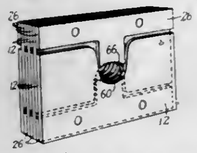
necting said discs just inside said indentations, and a third cylinder connecting said discs at their outer peripheries, said annular indentations providing for resiliency between said second and third cylinders.

2,639,753
TIRE CHAIN AND CHAIN TIGHTENER
Milow W. Pike, Omaha, Nebr.
Application January 17, 1950, Serial No. 139,027
1 Claim. (Cl. 152—242)



A tire chain, comprising an outer and an inner ring like member, each comprising a plurality of sections hinged together for swinging movement in one plane, cross chains connecting said sections of said outer and inner ring members for joining said ring members together, toggle levers pivotally connected to one of said sections of one of said ring members, means on other of said sections of said ring member having engagement with said levers, means for moving said levers with respect to said sections and causing said other sections of said ring member to be moved and positioned about the tire, and a cam plate pivoted to said toggle levers engaging said section to which the levers are pivoted for drawing said levers into parallelism with said section when said toggle is operated.

2,639,754
TOOL FOR CRIMPING FERRULES
James C. Macy, New Cumberland, Pa., assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa., a corporation of New Jersey
Application March 3, 1945, Serial No. 580,841
2 Claims. (Cl. 153—1)



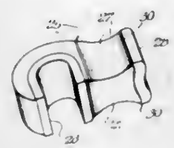
2. A tool for crimping an electrical connector ferrule onto a metallic electrical conductor which comprises a plurality of opposed dies, each in the form of a plate having a concave bottom recess at its area of contact with said ferrule, each pair of opposed dies being in staggered relationship and being movable in parallel paths to and from mutually overlapping and interleaving relationship at the sides of the recesses and means defining a spacer plate between each pair of adjacent dies, the spacer plates being thicker than the die plates to space said parallel paths apart a predetermined distance to avoid actual contact of opposed dies when in the mutually overlapping position, each of said spacer plates having a ferrule contacting portion extending into and forming part of the cavity between opposed dies whereby each of said spacer plates as well as each of said die plates bears on the ferrule when the dies are closed.

2,639,755
CHAIN MACHINE
Max H. Lange, New York, N. Y.
Application September 30, 1947, Serial No. 776,906
2 Claims. (Cl. 153—1)



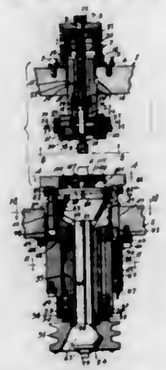
1. In a chain machine for making slide fastener chain, a wheel adapted to feed a metal strip between element forming tools, a shaft upon which said wheel is mounted, and two ratchet wheels on said shaft, one of said ratchet wheels being keyed to said shaft, the other of said ratchet wheels being freely rotatable on said shaft, a first pulley attached to said other ratchet wheel for rotation therewith, a second pulley in adjustably spaced relation with said first pulley, a metal band around said pulleys, two pawls jointly driven and individually in contact with said ratchet wheels, and a trip carried by said band and adapted to elevate the pawl of the first ratchet wheel thereby to interrupt the driving of said shaft and the feeding of said metal strip.

2,639,756
CAMBER ADJUSTING TOOL
Frank H. Hendrick, Portland, Oreg.
Application May 5, 1950, Serial No. 160,361
1 Claim. (Cl. 153—32)



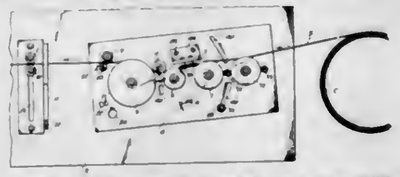
A reversible tool for bending an elongated steering knuckle support in one direction to increase its camber or in an opposite direction to decrease its camber comprising a short shank portion having top and bottom sides each terminating at one end of the tool in a transverse line contact fulcrum edge, and a pair of transverse parallel flat jaws on the other end of the tool extending therethrough between said top and bottom sides and perpendicular thereto, said top and bottom sides of said shank portion being concave in a longitudinal direction forming a reduced neck in said shank portion between said jaws and said fulcrum edges to accommodate relative rocking movement of either one of said fulcrum edges on a flat headed jack or the like.

2,639,757
APPARATUS FOR FORMING METAL ARTICLES
Hiram R. Cheek, Bell, Calif.
Application March 25, 1946, Serial No. 656,869
15 Claims. (Cl. 153—71)



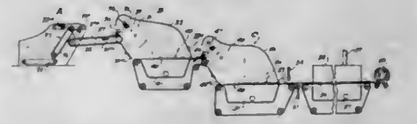
1. In a forming device, the combination comprising a pair of heads movable toward and away from each other, a die member carried by each of said heads, means arranged to automatically move said die members into and out of cooperative relation upon relative movement of said heads, a stationary supporting structure for one of said die members, means mounted on said supporting structure arranged to move said one die member with an article pinched therebetween in an orbital path relative to the other die member to produce on said article to be formed the configuration of the dies, means rotatably supporting said one die member on the last mentioned die moving means, means maintaining a fixed angular relationship between said one die member and said supporting structure in movement of said one die member through said orbital path, the other die member being mounted in fixed angular relationship to said supporting structure.

2,639,758
WIRE STRAIGHTENER
Richard D. Heller, Tujunga, Calif.
Application December 3, 1948, Serial No. 63,247
12 Claims. (Cl. 153—109)



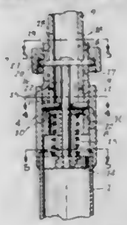
1. Wire straightening mechanism comprising a first, a second, and a third strand guiding means closely spaced in succession along the strand's path of advance, and each comprising a sheave lying in a plane which generally corresponds to the plane of the strand's coil, and about which the strand is wrapped in the same sense as it lay in its coil, to hold the strand against rotation about its own axis intermediate any two of said sheaves, means located to engage and deflect the strand, intermediate two such sheaves, transversely to the plane of its coil set, to remove its helical set, if any, and further means located to engage the strand, intermediate one of the first two and the other such sheave, and to deflect it counter to its original coil set.

2,639,759
METHOD OF FORMING GLASS FIBER MATS
Allen L. Simison, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application July 3, 1947, Serial No. 758,821
5 Claims. (Cl. 154—28)



1. The method of forming a mat of glass fibers as a reinforcement for plastics which comprises cutting into uniformly short lengths bundles of strands of glass fibers formed by flowing streams of molten glass, gathering and attenuating the streams to filaments, binding the filaments into strands and collecting the strands in masses, distributing masses of the short-length strands on a moving surface, conveying the masses of strands to a mass-disintegrating station, breaking up the masses of strands at said station into individual strands and bundles of strands, conveying the individual strands and bundles of strands by an air stream to a collecting surface on which the strands and bundles of strands are collected into a pad, delivering the pad to a second disintegrating station, disrupting the pad into strands and bundles of strands, conveying the strands and bundles of strands from the second disintegrating station by an air stream to a second collecting surface to form a mat of substantially uniform thickness, and applying a resinous impregnant to the mat to coat the strands and bundles of strands.

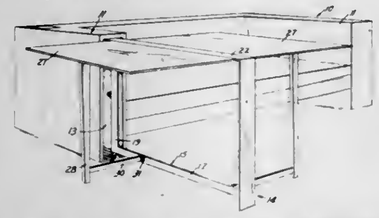
2,639,760
ADJUSTABLE RESILIENT SHOCK ABSORBING SUPPORT FOR VEHICLE SADDLES
Franz von Szilágyi, Bruck a. d. Leitha, Austria, assignor to George Klammer, as trustee, Olmsted Falls, Ohio
Application February 17, 1950, Serial No. 144,610
In Austria April 29, 1949
7 Claims. (Cl. 155—5.19)



7. A saddle supporting device comprising an outer carrier sleeve adapted to be connected to a bicycle frame in upright position and having a slot at its upper portion extending endwise thereof, a saddle supporting sleeve telescopically mounted in the carrier sleeve for axial movement relative thereto lengthwise thereof and having a slot aligned radially of the sleeves with

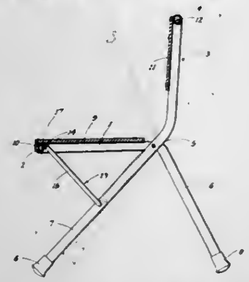
the first slot for a portion of its length, an adjustment member carried by the carrier sleeve and movable endwise thereof to different adjusted positions and accessible exteriorly thereof for movement by hand, means to secure the member in said different adjusted positions, an element in and movable endwise of the saddle supporting sleeve and operatively connected through the aligned slots to said member for movement thereby endwise of the sleeves, complementary means on the element and on the supporting sleeve, respectively, resilient means operatively connected to both connecting means and urging the connecting means to move relative to each other thereby to move the supporting sleeve upwardly in the carrier sleeve, and cooperative means carried by the sleeves and constraining them from relative rotation.

2,639,761
COMBINATION SOFA AND TABLE
John M. Schenzinger and Warren Balcher, Altadena, Calif.
Application March 3, 1950, Serial No. 147,446
2 Claims. (Cl. 155—123)



2. An article of the character set forth in claim 1, wherein said latching means comprises a keeper carried upon the rear of the frame, a pivot bolt mounted upon the back wall of the chamber, an inwardly and rearwardly inclined arm carried by the bolt, a vertically reciprocable pin disposed above and having its lower end engaging the top of said arm and a button upon the top of said pin, the top wall having an opening for the button to facilitate application of downward pressure thereon.

2,639,762
FOLDING CHAIR
Leslie L. Westcamp, Fair Oaks, Calif.
Application May 9, 1949, Serial No. 92,216
2 Claims. (Cl. 155—143)



1. A folding chair comprising a normally substantially horizontal seat frame, a normally upstanding back frame, said frames being generally U-shaped and opening rearward and downward, respectively, means pivotally connecting said frames at adjacent ends for folding toward each other, transversely spaced rear legs integral with and being extensions of opposite sides of the seat frame, transversely spaced front legs integral with and being extensions of the back frame, the front and rear legs normally diverging downwardly but being swingable into a substantially parallel position upon relative folding of said frames toward each other, a rigid seat secured on the seat frame, a back secured on the back frame, and a brace normally extending from the front legs at an upward and forward incline and including an upper cross member to engage in the transverse corner formed between the bottom of the seat and the rear of the front portion of the seat frame; the brace including side legs depending from the cross member and pivoted at their lower end on the front legs and the pivot means of the frames comprising a cross rod; the length of the side legs being greater than the distance between said cross rod and the point of pivotal connection of the brace legs with the front legs whereby said side legs may rest against the cross rod when the brace is folded.

2,639,763
WIRE SPRING
William H. Neely, Cleveland, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Application September 26, 1949, Serial No. 117,840
5 Claims. (Cl. 155—179)

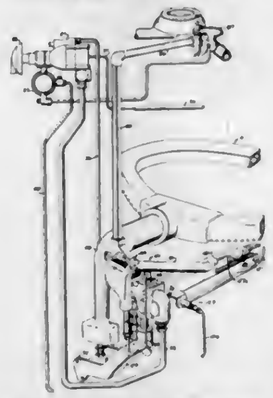
1. An integral, elongated wire spring for seat structures including a flat, sinuously corrugated, resting portion and supporting means for said resting portion extended from opposite ends thereof, said supporting portion embodying successive left and right handed loops connected by cross wire members spaced from each other a predetermined distance and other successive left and right handed loops connected by cross wire members spaced from each other a predetermined distance different from said first distance to provide a resting portion including areas of different yield to loads placed thereon.

2,639,764
CAR SEAT FABRIC CLIP
Eric Birger Fernberg, Pinner, England
Application March 14, 1950, Serial No. 149,604
In Great Britain March 9, 1949
3 Claims. (Cl. 155—180)



1. A fastener for securing flexible sheet upholstery material to a rigid rod comprising a one-piece relatively thin body of spring metal generally U-shaped in cross section, and a pair of prongs on each arm of the U-shaped body arranged opposite to each other, there being a cut-out on opposite side edges of the body shaped to form a pair of prongs, said body being adapted to be sprung about the rod and the prongs impinge against the rod.

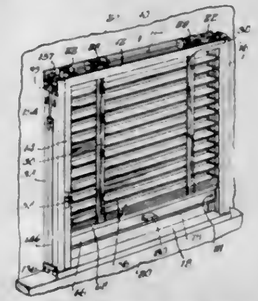
2,639,765
LIGHTER VALVE UNIT
Peter I. Hollman, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application May 26, 1950, Serial No. 164,478
11 Claims. (Cl. 158—133)



1. In a lighter unit the combination of a safety valve having an open and a normally closed position, first pilot burner means, means rigidly interconnecting the safety valve and the first pilot burner means and having a passageway for effecting communication between the pilot burner means and a fuel supply, a thermal strip positioned to be heated by said first pilot burner means, means acting between said safety valve and said thermal strip operable to move the safety valve to its open position when the strip is heated to a preselected temperature, a sub-burner valve having a normally open and a closed position and arranged to control the flow of fuel to a sub-burner, means acting between said sub-burner valve and the thermal strip operative to move the sub-burner valve to its closed position when the strip is heated to a preselected temperature, a stand-by pilot burner adjacent the first pilot burner means, stand-by pilot burner valve means arranged to control the flow of fuel to said stand-by pilot burner and having an open and a normally closed position, and means acting between said thermal strip and said stand-by pilot burner valve means for moving said stand-by pilot burner valve means to its open position when the said thermal strip is heated to a preselected temperature.

2,639,766
CLOSURE STRUCTURE
Raymond C. Pratt, Chicago, Ill.
Application May 13, 1947, Serial No. 747,813
11 Claims. (Cl. 160—40)

1. A closure structure comprising an operating member adapted to be drawn across an opening to be closed, said operating member being shiftable in opposite directions along a predetermined path of travel, a frame structure, said frame structure including a guide column having a channel for guiding the operating member in its movements, and closure means for the channel



comprising an elongated metal tape, said channel and tape having interengaging portions for precluding lateral movement of the tape when within the channel.

2,639,767
CURTAIN
Maurice Druck, Long Beach, N. Y.
Application April 13, 1951, Serial No. 220,939
3 Claims. (Cl. 160—330)

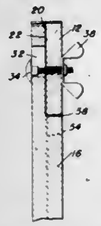


1. A curtain comprising a substantially planar flexible base fabric extending upwardly and folded upon itself to form a first bight; said fabric being folded upon itself in an opposite direction to form a second bight; said fabric being folded downwardly and rearwardly upon itself to form a third bight; first means interconnecting the curtain material spaced from the third bight; and second means interconnecting the upper edge of said base fabric which edge is spaced downwardly from the third bight, the first bight, and another portion of the base fabric disposed forwardly of the first said bight.

2,639,768
STORM WINDOW CONSTRUCTION
John M. Winston, Washington, Ind.
Application June 25, 1951, Serial No. 233,293
7 Claims. (Cl. 160—374)

3. A storm window construction comprising end and side frame elements, means slidably and adjustably connecting said frame elements together to provide a frame, end portions of said elements having cut-away portions providing lap joints for the cooperating elements, said frame elements being slotted, a flexible plate

of transparent material having marginal edges received in said slots, and said means being manually adjusted to clamp said elements together and said flexible plate between said lap joints.



2,639,769
SCREEN INSERT FOR STORM WINDOWS
Walter M. Krantz, Youngstown, Ohio
Application March 10, 1947, Serial No. 733,688
3 Claims. (Cl. 160—397)



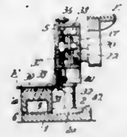
1. Means for edge mounting panels of screen material, said means comprising a framing member having a channel formed therein, said channel having a rib partially overhanging one side thereof, a plurality of axially extending serrations formed in the opposite side thereof and a longitudinally extending groove in the said channel and at one side thereof, the edges of the screen positioned in the said channel and groove and a distortable tubular member positioned in the said channel so as to position the screen beneath the overhanging edge and be held by the said serrations.

2,639,770
SMALL GUN FOR PERFORATING CASING IN OIL WELLS
Theodore A. Huber, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application September 11, 1950, Serial No. 184,161
2 Claims. (Cl. 164—0.5)



1. In an arrangement for perforating casing in oil wells or the like, an elongated carriage small enough in diameter to enable it to be run into the well through tubing inside the casing to be perforated, a plurality of guns mounted individually for rotation in said carriage, each of said guns having a diameter less than the diameter of the tubing and a length greater than the diameter of the tubing but less than the diameter of the casing, and means for rotating said guns simultaneously from their vertical position longitudinal of the carriage into a position transverse thereof, each of said guns being loaded with only one bullet, alternate guns being positioned with their muzzles at opposite ends so that when the guns are rotated in the same direction of rotation to their horizontal positions, adjacent guns will be facing in opposite directions, thereby being in a position to perforate the casing with staggered holes when said guns are fired.

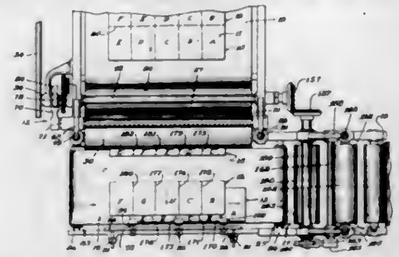
2,639,771
COMBINATION ENVELOPE OPENER AND PAPER SHEET CUTTER
Victor Kobler and Werner Kobler, Zurich, Switzerland
Application May 31, 1950, Serial No. 165,166
In Switzerland May 31, 1949
2 Claims. (Cl. 164—59)



1. Stop means for a paper sheet cutter having a stationary portion with a horizontal knife blade affixed thereto and a vertically movable beam with a substantially vertical knife blade affixed thereto for cooperating with said horizontal knife blade, comprising a hingedly mounted stop on the movable beam of said cutter, said stop being disposed in close proximity to and rearwardly of the vertical knife blade and comprising two strips interconnected side by side, a knob for manually pivoting said stop into and out of operative position projecting from said beam, a shank integral with said knob and engaging said stop in pivoted relation, said shank having a recessed portion adapted to engage said beam, a spring attached at one end to said beam and at the other end thereof to said shank, said knob when depressed swinging said stop in to operative position and the recessed shank portion engaging said beam and the spring being tensioned in a direction to lock the stop in said position, said stop when in operative position lying in a plane parallel to said vertical knife blade.

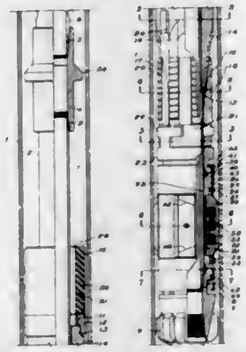
2,639,772
SHEET TEARING DEVICE
Nels H. Sandberg and Henry O. Ronning, Minneapolis, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application February 4, 1949, Serial No. 74,688
11 Claims. (Cl. 164—84.5)

1. A carton separating apparatus including for use in conjunction with a sheet of cartons including a plurality of rows of cartons with a plurality of cartons in each row, said cartons and rows being separated along weakened lines of separation, the apparatus including a pair of rollers between which said sheet is guided, said rollers gripping said sheet and moving the same, a second set of rollers in spaced relation to the first set thereof, means operating said second set of rollers at a higher rate of speed than said first set of rollers, means for moving said second set of rollers into and out of engagement with the sheet and operable upon engagement with the sheet to separate one row of cartons from another row thereof, means arranged in properly timed relation with said rollers for moving the rows of cartons one above the other in overlapping relation at right angles to the direction of movement thereof between said rollers, a third set of rollers between which the cartons of each row extend, a fourth set of rollers in spaced parallel relation to



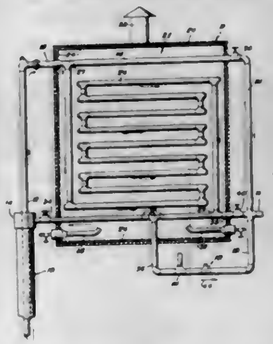
said third set of rollers, means for driving said fourth set of rollers at a greater rate of speed than said third set of rollers, means for moving the rollers of said fourth set toward and away from each other, said fourth set of rollers acting upon engagement with cartons passing therebetween to separate the overlapped individual cartons of each row one from another.

2,639,773
PACKING MEANS FOR WELLS
Jack C. Webber, Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 16, 1949, Serial No. 81,797
10 Claims. (Cl. 166—12)



1. A packer for a well including a packing element member, an expander member, a mandrel with which is associated one of said members, a sleeve provided about the mandrel and with which is associated the other of said members, pairs of cooperating hook means provided at circumferentially spaced intervals, respectively, on the mandrel and the sleeve for maintaining the packing element member and the expander member in spaced apart relationship and for permitting the expander member to be brought into contact with the packing element member to compress the latter into sealing engagement with the casing wall upon rotatable movement of the mandrel relative to the sleeve, spring means for continuously urging said hook means into latched relationship during the running and pulling of the packer, means on the sleeve for frictionally engaging the casing wall, a slip retainer ring disposed about the mandrel and connected to the sleeve, said ring having formed thereon a series of T-shaped members, a plurality of slips for engaging the casing wall to prevent longitudinal movement of the sleeve therein, an L-shaped extension formed at the end of each of said slips to engage said T-shaped members thereby preventing longitudinal movement of said slips relative to said ring, and bearing means for rotatably connecting said ring to the sleeve, said spring means consisting of a spring element secured to each of the hook means provided on the mandrel and bearing against adjacent hook means.

2,639,774
PARAFFIN REMOVAL SYSTEM FOR WELLS
Leonard H. Rhoads, St. Elmo, Ill., assignor to Lloyd W. Feller, St. Elmo, Ill.
Application May 31, 1950, Serial No. 165,299
1 Claim. (Cl. 166—17)

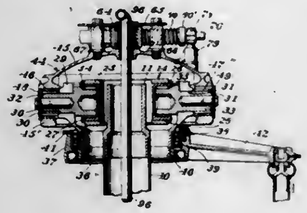


In an oil well apparatus, an oil delivery and paraffin removal system comprising a heated chamber, an oil heating coil provided in said chamber and having upper and lower ends, a T-coupling provided at each end of said coil, an oil inlet pipe extending from tubing of a well and connected to the coupling at the upper end of the coil, an oil return pipe extending from the coupling at the lower end of the coil to a well casing, an oil delivery pipe extending from the last mentioned coupling to a storage tank, a by-pass pipe extending from the coupling at the upper end of said coil and connected to said delivery pipe at a point outside of said chamber, a shut-off valve on said by-pass pipe, a second shut-off valve on said return pipe, and a third shut-off valve on said delivery pipe at a point between the by-pass pipe and the coupling at the lower end of said coil, whereby oil flowing through said inlet pipe may be routed selectively through the by-pass and delivery pipes, through the coil and delivery pipe, and through the coil and return pipe.

2,639,775
ROTATIVE WING AIRCRAFT
William E. Hunt, Flushing, N. Y.
Application August 14, 1946, Serial No. 690,511
17 Claims. (Cl. 170—160.27)

1. Helicopter structure comprising a vertical drive shaft, an inner gimbal ring pivotal on the

upper end of said shaft on a diametrical axis, an outer gimbal ring pivotal on the inner ring on a diametrical axis at right angles to the first axis, a rigid housing pivotal on the outer ring on a diametrical axis of said outer ring, and a pair of rotor blades carried by said housing on



pitch-adjusting axes which are in an axial plane of said shaft at right angles to the last-mentioned pivotal axis of said housing, whereby the pivotal connection of said housing to said outer ring provides a flapping axis for said blades independent of the pivotal connection of said rings.

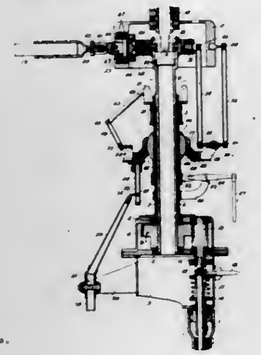
2,639,776

AIRCRAFT ROTOR WITH TILTING HUB AND DAMPER CONTROL OF BLADE SWINGING

Paul H. Stanley, Glenside, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Original application May 14, 1942, Serial No. 442,911, now Patent No. 2,444,070, dated June 29, 1948. Divided and this application April 1, 1948, Serial No. 18,383

13 Claims. (Cl. 170—160.55)



1. In an aircraft rotor having a plurality of blades, a central mounting assembly constructed to provide for universal tilting of the axis of rotation of the blades as a group, pivotal means constructed to provide for swinging of said blades in a given sense with respect to said mounting either in unison or relative to each other, and restraining mechanism coupled for interaction between said blades whereby to restrain relative swinging, without appreciable restraint of said universal tilting, and means operatively associated with said restraining mechanism to provide substantially free swinging movement of the blades in unison.

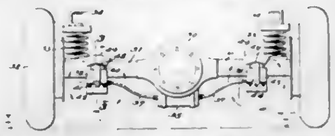
2,639,777

METHOD AND DEVICE FOR IMPARTING LATERAL MOVEMENT TO AN AUTOMOBILE

Marshall L. Dull, Wilmington, Del., assignor, by direct and mesne assignments, to Rotomatic, Incorporated, a corporation of Delaware

Application January 12, 1948, Serial No. 1,778

6 Claims. (Cl. 180—1)



3. A method for moving an automobile chassis in a lateral direction while it is supported by its wheels, which method is characterized by providing vibratory mass elements connected to a wheel and axle assembly of the automobile, vibrating these elements in a path that has both vertical and lateral components with respect to the chassis, and effecting such vibration with an intensity great enough to cause the wheel and axle assembly to vibrate in a similarly directed path with an amplitude large enough to cyclically lift this assembly from the ground and shift it laterally.

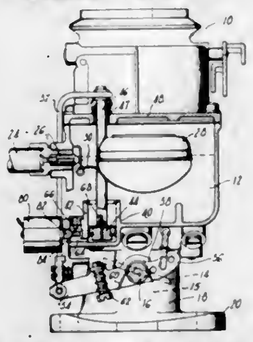
2,639,778

ELECTRICALLY CONTROLLED DASHPOT FOR CARBURETOR THROTTLES

John F. Puro, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 19, 1947, Serial No. 792,632

5 Claims. (Cl. 180—77)



1. In a carburetor for an internal combustion engine, an induction passage with a throttle therein; a throttle actuating means; a source of fluid; a chamber; a movable wall for said chamber; a conduit connecting said chamber with said source of fluid; a valve in said conduit adapted to be moved toward closed position by fluid flowing from said chamber; a calibrated passageway connecting said chamber with the source of fluid; a linkage connecting said movable wall with the throttle actuating means for moving said wall in the direction to draw fluid into said chamber during the opening movement of the throttle and for moving said wall in the direction to discharge fluid from said chamber near the end of the closing movement of the throttle, the capacity of said conduit being such as to permit said chamber to fill readily with fluid and the capacity of said passageway alone being such as to prevent said chamber from being readily emptied, whereby the closing movement of the throttle is retarded; a magnetizable member extending into said conduit adjacent said valve; and means spaced from said conduit for magnetizing said member under certain engine or vehicle operating conditions to open said valve.

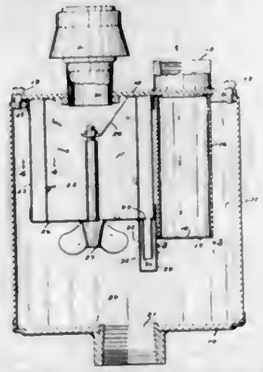
2,639,779

DEAERATOR FOR OIL OR THE LIKE

Clarence J. Glanzer, Northfield, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware

Application May 17, 1950, Serial No. 162,559

1 Claim. (Cl. 183—2.5)



An oil and air separating device of the class described comprising a closed container having in the top thereof a liquid inlet and air escape means, an unobstructed liquid outlet in the bottom of said container and out of alinement with said inlet, a straight inlet pipe in said container arranged vertically in liquid-flow connection with said liquid inlet and terminating a substantial distance above the bottom of said container, said inlet pipe of sufficient extent to cause liquid from said inlet to be directed in a stream vertically downward, a perforate separator plate disposed adjacent the bottom end of said inlet pipe to be impinged by the inlet stream, said bottom of said container being impinged by streams passing through said separator plate, a screen mesh filter unit in said container attached to the top of said container and operatively associated with said air escape means whereby all air escaping through said air escape means must pass through and be filtered by said filter unit, and a manometer seal connected to and depending from said filter unit providing a liquid path from the downstream side of said filter unit to the upstream side thereof against a pressure differential, said liquid path being spaced from the path of the air and oil mixture flowing into said filter screen mesh.

2,639,780

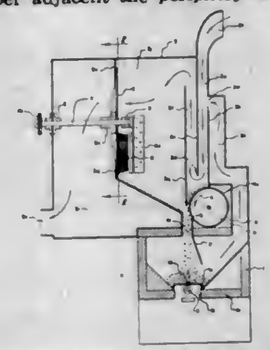
CHAFF SEPARATOR AND FURNACE

Gordon W. Hardy, Chula Vista, Calif.

Application February 14, 1950, Serial No. 144,187

2 Claims. (Cl. 183—6)

1. In a chaff separator and furnace, a casing having an inlet conductor and an outlet conductor, said casing having vertical wall portions defining a substantially vertical passage communicating directly with said inlet conductor, a rotatable drum at the lower end of said passage, a fire box below said drum and having an opening in the upper portion thereof communicating with the periphery of said drum below said passage, a scraper adjacent the periphery of said drum



and extending toward said fire box near the opening in the upper portion thereof, said passage terminating a short distance above said drum and communicating with said outlet conductor, a movable screen intermediate said passage and said outlet conductor, and brush means engaging said screen for continuously cleaning the same.

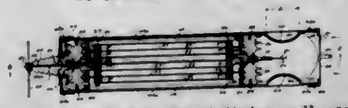
2,639,781

ELECTROSTATIC FILTER

Christian W. Savitz, South Euclid, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware

Application December 10, 1948, Serial No. 64,642

23 Claims. (Cl. 183—7)

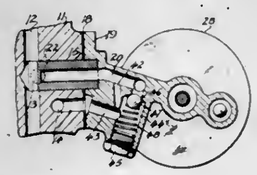


17. An electrostatic precipitator cell comprising a plurality of laterally-spaced parallel plates, the two outermost of said plates being longer than the rest of said plates, means connecting said outermost plates with alternate plates to form a first set, means connecting the others of said plates to form a second set, all of said plates except the outermost having upstream edges at right angles to the general direction of stream flow, said outermost plates having portions extending upstream from said upstream edges, a bracket carried by said second set of plates at the upstream end thereof, an ionizing electrode carried by said bracket between said extending portions of said outermost plates, said outermost plates being bent inwardly opposite said electrode, an electrical contact carried by said second set of plates at the downstream end thereof, a frame for holding said cell in a fluid stream, said cell being slidable in said frame in the general directions of stream flow from an inoperative position to an operative position, an electrical contact carried by said frame and registering with and engageable by said contact at the downstream end of said second set of plates when said cell is slid into operative position, means for supplying high tension unidirectional current to said frame carried contact, and means for grounding said first set of plates.

2,639,782
SEPARATION OF HYDROCARBONS
Orville L. Polly and Clyde H. O. Berg, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application July 30, 1948, Serial No. 41,731
9 Claims. (Cl. 183—115)

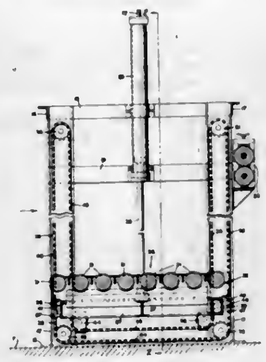
1. A process for the separation of a normally gaseous hydrocarbon mixture which comprises contacting said mixture with a selective solvent comprising a major proportion of a liquid ring-saturated heterocyclic compound containing two hetero atoms selected from the class consisting of oxygen, sulfur and nitrogen atoms and a minor proportion of formamide, thereby dissolving one component of said hydrocarbon mixture without dissolving another component thereof.

2,639,783
OIL FILTER AND PRESSURE REGULATION SYSTEM FOR ENGINES
Julius P. Kovacs, Newark, N. J., assignor to Purolator Products, Inc., Rahway, N. J., a corporation of Delaware
Application August 3, 1951, Serial No. 240,137
6 Claims. (Cl. 184—6)



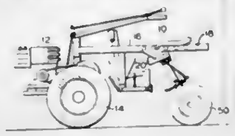
1. In combination with an engine block having a main oil duct for delivery of lubricating oil under pressure from an oil pump to engine elements to be pressure lubricated and a connecting-rod duct for delivery of oil to connecting rods, said ducts having respectively main duct and connecting rod duct openings in a face of the engine block, a filter-pressure regulating unit comprising a base attached to the engine block over the said openings in the face of the block and having filter input and output channels aligned with the main duct opening, the filter input channel leading to the hereinafter-mentioned filter chamber and the filter output channel leading from the hereinafter-mentioned filter chamber, and an interceptor for diverting the full flow of oil from the oil pump in the main duct to the input channel and directing the flow of oil in the output channel back to the main duct for passage to the engine elements, means defining a filter chamber interposed in series with and between the input and output channels, a relief duct interposed in series between the input and output channels and a pressure openable relief valve normally closing the relief duct for establishing a by-pass around said filter chamber when clogged, a restricted duct in said base communicating with said input channel and a connector duct aligned with the connecting rod duct opening, an engine pressure regulating duct communicating with the input channel and said connector duct and a pressure openable pressure regulating valve in the pressure regulating duct for establishing a by-pass around the restricted duct upon the occurrence of a predetermined oil pressure.

2,639,784
LEVELING DEVICE FOR TIN PLATE FEEDER PLATFORMS
Donn V. Strock, Youngstown, Ohio, assignor to The Aetna-Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio
Application December 27, 1950, Serial No. 202,932
13 Claims. (Cl. 187—22)



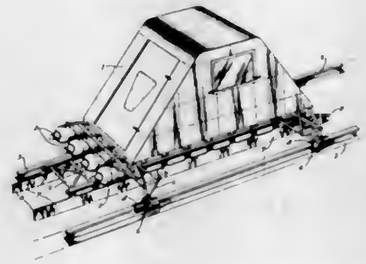
13. An elevating platform mechanism comprising a vertical frame structure, a platform movable within said frame structure, means for raising and lowering said platform comprising two fluid pressure cylinders of equal diameter secured to said frame structure above said platform, pistons in each cylinder, each piston having piston rods of equal diameter projecting from both sides thereof through the heads of the cylinder thereof whereby movement of the pistons results in displacement of equal volumes of liquid from the cylinders on both sides of pistons, the downwardly extending piston rods being secured to said platform on opposite sides thereof, a conduit for supplying liquid under pressure to the under side of one of said pistons, and a conduit leading from the upper side of said piston to the under side of the other piston so that fluid displaced from the said upper side of said first piston of the first mechanism will cause the other piston mechanism to move the same distance and in the same direction with respect to its cylinder as the first piston of the first mechanism moves with respect to its cylinder.

2,639,785
TOP SHOE BRAKE OPERATOR
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 18, 1950, Serial No. 150,501
7 Claims. (Cl. 188—29)



1. In a tractor having a pair of wheels, means for adjustably positioning the wheels at various tread spacings with respect to each other, a brake associated with each wheel, an overcenter toggle linkage connected to each brake, a brake applying lever, and a transverse shaft rotatably mounted for transmitting motion from the brake applying lever to said linkage, said shaft including at least two telescoping noncircular parts, whereby the brakes may be operated with the wheels positioned at any tread spacing.

2,639,786
CONTROLLED DECELERATION DEVICE
John K. Northrop, Hawthorne, Edward C. Denzin, Los Angeles, and Donald B. Smith, Inglewood, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application February 26, 1949, Serial No. 78,554
28 Claims. (Cl. 188—62)



12. A decelerator comprising a first plurality of brake shoe members having motion relative to a brake rail member along a specified path on which lie said shoe members and said rail member, said rail member having a given length, said shoes being spaced center to center by exactly said rail length, additional similar pluralities of brake shoe members located along said path, the shoe members of each said additional plurality also being spaced center to center by exactly said rail length, the first shoe of each of said additional pluralities being fixed between the first and second shoes of first said plurality of shoes, power means connected to move each of said shoe members to a tripped position, said tripped position arranged to cause sliding friction between said shoe and said rail member when said rail member is beside said shoe, cocking means movable to hold each of said shoes in a cocked position against the potential energy of said power means, and tripping means having a fixed position relative to said rail member, said tripping means being positioned to simultaneously move each of those cocking means associated with the first shoe member of each plurality to trip said first shoe members simultaneously when said relative motion brings the leading end of said rail member beside the last of said first shoes, a portion of said tripping means being positioned to individually move each of those cocking means associated with the remaining shoe members to trip its associated shoe member when said relative motion brings the leading end of said rail member beside such a remaining shoe member, whereby, after the initial rapid rise of deceleration caused by the simultaneous tripping of said first shoes, each succeeding shoe member will be individually tripped and become active just as a previously tripped shoe becomes inactive by reason of its separation from said rail member, thus maintaining a constant total number of active shoes until no more shoes are available to be tripped on the leading end of said rail.

2,639,787
BRAKE
James O. Heivern, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 10, 1951, Serial No. 210,301
10 Claims. (Cl. 188—79)

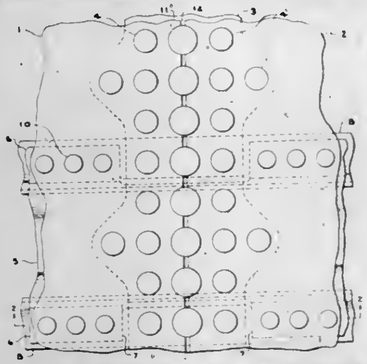


1. In an internally expanding brake, the combination with a stationary housing; of a rotatable drum about said housing; two separate pairs of diametrically opposed brake shoes arranged side by side within said drum; two rigid anchors provided by the housing and engaged by adjacent ends of the pairs of brake shoes; an anchor strut engaged by and supported between the opposite adjacent ends of each pair of the shoes; a single pin loosely supported between the side by side shoes of said two pairs of shoes; a single resilient means attached to each pin and urging the respective shoes into engagement with both anchors and anchor struts; a rotatable shaft supported by the housing; and motion transmitting means connected between the said shaft and the brake shoes, said means comprising an abutment pin secured to the side by side shoes of said pairs of shoes, a plurality of flat, superposed and interconnected links and levers cooperative to translate the rotary motion of the shaft into a pushing motion in opposed directions radially outwardly toward the drum and against the respective abutment pins of said side by side brake shoes to move said shoes into frictional engagement with the drum.

2,639,788
STRUCTURAL JOINT
John F. Korsberg, Frank T. Gustafson, and George Snyder, Seattle, Wash., assignors to Boeing Airplane Company, a corporation of Delaware
Substituted for abandoned application Serial No. 758,390, July 1, 1947. This application June 27, 1951, Serial No. 233,836
1 Claim. (Cl. 189—36)

A riveted metallic joint comprising two plates in closely adjacent edge-to-edge arrangement, a

splice strap riveted to both of said plates, and a plurality of rivets passing through the splice



strap and partially received in each of the two plates and in tight engagement therewith.

2,639,789

EXTENSIBLE JOINT STRUCTURE

Philip Rosenberg, New York, N. Y., assignor to Universal Steel Equipment Corporation, Long Island City, N. Y., a corporation of New York

Application December 3, 1947, Serial No. 789,519
2 Claims. (Cl. 189—36)



1. An adjustable joint forming combination, comprising a pair of die washers, a pair of sheet metal members to be joined, a nut and a bolt, the first member to be joined being formed with a longitudinal slot and the second member to be joined being formed with a major opening to pass the bolt shank and with quadrangularly related smaller openings disposed about said major opening, the die washers being duplicates of one another and each including a central opening to pass the bolt shank, a pair of projecting pins disposed upon one diameter at opposite sides of the central opening and a pair of recesses disposed at opposite sides of the central opening upon a second diameter at right angles to the first, the first washer having its pins fitted through the second member and into engagement with wall material of the first member, and the second washer having its pins inserted through the slot of the first member and fitted into the other pair of openings in the second member, and the nut being tightened on the bolt to clamp the washers together and thereby cause the pins of the first washer to displace wall material of the first member into the recesses of the second washer for effecting a permanent interlock.

2,639,790

EMERGENCY EXIT WINDOW

James G. Reitzel, Fort Valley, Ga.

Application January 26, 1950, Serial No. 140,573
8 Claims. (Cl. 189—64)

3. A window construction comprising a metal frame, a continuous sash guide frame positioned in the first named frame, sash mounted in the guide frame, a rearwardly inclined lip at the upper edge of the first named frame and extending throughout the length of said upper edge, and a hanger at the upper edge of the guide



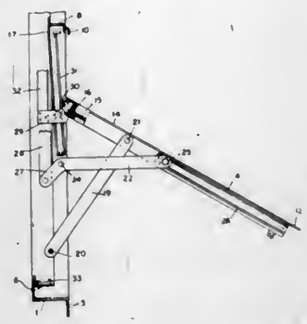
frame engaged over the lip and supporting the guide frame for swinging movement, said hanger being rubber and contacting the lip throughout the length of the lip to form a sealing means as well as a hanger.

2,639,791

WINDOW CONSTRUCTION

Arthur W. Grist, Newport News, Va., assignor, by mesne assignments, to Brown & Grist Company, Newport News, Va., a copartnership composed of Robert A. Cassidy, Robert F. Flaxington, Bernard J. Utley, L. E. Wooldridge, and R. G. Brown

Application August 2, 1948, Serial No. 41,910
12 Claims. (Cl. 189—67)



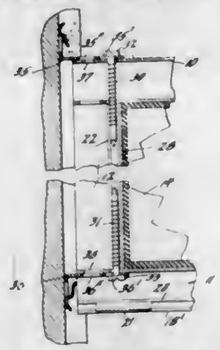
5. In a window structure having a sash mounted in a frame for outward swinging movement, generally vertical slideways in the sides of such frame sloping slightly outwardly in a downward direction, slide means mounting the upper portion of such sash for pivotal and longitudinal movement with respect to said slideways, and link means pivotally secured to such frame at one end and at the other end to such sash to support the latter in open position.

2,639,792

WINDOW CONSTRUCTION

Jacob M. Gwynne, O'Bannon, Ky.

Application May 4, 1951, Serial No. 224,507
2 Claims. (Cl. 189—77)



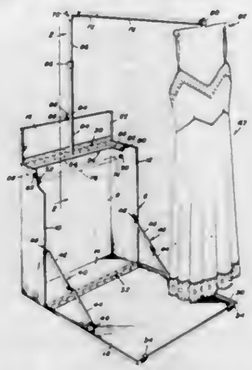
1. A metal window sash comprising a tubular horizontal top member, a horizontal bottom member, parallel vertical side members extending between said top and bottom members, said side members being of U-section with their open sides disposed outwardly, each said side member having spaced longitudinal flanges projecting inwardly from the base of the U-section and adapted to receive therebetween the shank of a threaded connector, said top, bottom and side members having square ends, and means adjustably connecting said top and bottom members, respectively, to said side members, to form a rectangular frame, said last means comprising threaded connectors extending through said top and bottom members, respectively, and into threaded engagement between said flanges of said side members.

2,639,793

PORTABLE SAMPLE CASE WITH COLLAPSIBLE DISPLAY RACK

Jacob J. Hellman, Atlanta, Ga.

Application January 9, 1951, Serial No. 205,054
3 Claims. (Cl. 190—13)



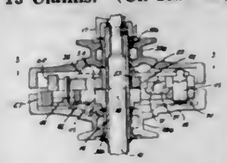
1. A portable convertible-type travelling salesman's sample storing, carrying and sample displaying case set up for display use comprising a rectangular case embodying flat top, bottom, back, front and side walls, said bottom wall supported on a stationary horizontal support surface, said front wall hingedly attached at one end to the adjacent front edge of said bottom wall and occupying a horizontal position coplanar with said bottom wall and resting in firm contact with said support surface, folding stay devices operatively attached to said side walls and front wall respectively, and maintaining said front wall in said coplanar position with said bottom wall, whereby said case is caused to stand in an open front upright position on said support surface, said top wall being hinged to the upper end of said back wall, a horizontal U-shaped yoke embodying a bight portion paralleling the upper end of said back wall in closed spaced relationship and lateral ends hingedly mounted between the upper end portions of said side walls, an upright secured at its lower end to the central portion of said bight portion and rising perpendicularly to a position above said case, means affording a separable operating connection between said upright and top wall and supporting the latter wall in an upstanding position coplanar with said back wall, a head carried by the upper end of said upright, and a horizontal reach arm overlying said front wall and detachably connected at one end to said head.

2,639,794

DRIVE CLUTCH FOR WASHING MACHINES OR THE LIKE

Jacob W. McNairy, Westport, Conn., assignor to General Electric Company, a corporation of New York

Application May 26, 1950, Serial No. 164,427
13 Claims. (Cl. 192—48)



1. A bi-directional clutch comprising a pair of cup-like clutch drums arranged in opposing, axially spaced relationship for rotation on a reversible drive shaft, power take-off means for each of said drums, a drive shoe carrier mounted within the space defined by said drums for rotation on said drive shaft, said carrier having diametrically extending arms and pivot pin means projecting therefrom parallel with said drive shaft and of equal radii with respect thereto, a pair of arcuate drive shoe members individual to each said clutch drum and arranged in superimposed relation, the respective shoes of each pair being pivoted on opposite end pivot pins of said carrier for rotation into engagement respectively with diametrically opposite wall sectors of the associated drum under the influence of centrifugal force engendered by rotation of said carrier, said shoe members having elongate openings of substantial area, the openings of superimposed shoes overlapping to position the end of each opening remote from its shoe pivot point within a relatively large open area of the superimposed shoe, a driver member secured to said shaft in overlying relationship with said pairs of shoes, said member having drive fingers extending therefrom at opposite sides of said drive shaft and projecting through said openings for free traversal therealong to abut against the said remote end of a shoe opening according to the direction of rotation of said drive shaft to

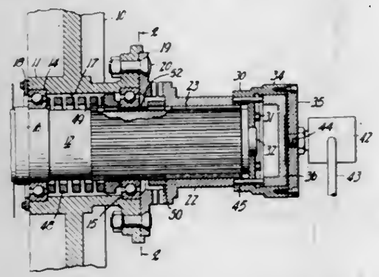
transmit driving torque through said shoe to said carrier while leaving the other of said superimposed shoes free to rotate into driving engagement with a clutch drum.

2,639,795

FLUID OPERATED CLUTCH

Frederick E. Munschauer, Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y.

Application August 25, 1950, Serial No. 181,477
4 Claims. (Cl. 192—67)



1. Drive means for power presses, shears and like machines comprising a drive shaft, a normally rotating drive wheel, a pair of axially spaced anti-friction bearings mounting said wheel on said shaft for independent rotation, a jaw clutch element fixed against a face of said wheel, an axially slidable complementary jaw clutch element having internal spline formations and interfitting external spline formations on said drive shaft, the drive shaft spline formations extending axially to a point between said anti-friction bearings, an axially slidable internally splined collar engaging the drive shaft spline formations between said anti-friction bearings, a compression coil spring seating at one end against the inner race of the anti-friction bearing which is remote from the jaw clutch elements and at its other end against said collar, a circumferential series of pins disposed between adjacent splines of said drive shaft spline formation and extending between said collar and the axially slidable jaw clutch element whereby the coil spring normally urges the latter to disengaged position, and means for selectively engaging the clutch elements against the resistance of said coil spring.

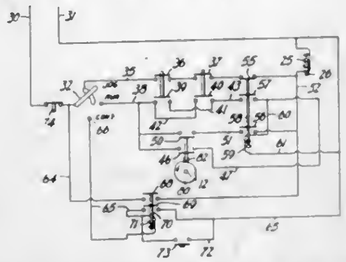
2,639,796

MACHINE CONTROL MEANS

Reeve W. Dean, East Aurora, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y.

Application March 17, 1950, Serial No. 150,247
5 Claims. (Cl. 192—131)

1. In a control for a cyclically operable device having drive means, an electromagnet energizable to activate said drive means, an energizing circuit for said electromagnet, a pair of switches connected in series in said circuit, a pair of spaced control elements manually movable to close said switches and energize said electromagnet, electromotive means and energizing circuit means therefor, a second pair of switches closable simultaneously with the first pair by manual movement of said control elements and connected in parallel with each other in said electromotive circuit means, a normally closed switch in said electromagnet circuit and a normally open switch in said electromotive circuit means, said last two switches being movable by energization of said electromotive means to open and closed position, respectively, a second normally open switch in series with said electromotive means and in shunt with respect to said first normally open switch and said second pair of switches, and means operable by the drive means during its cycle to close said second normally open switch until the end of the machine cycle to energize said electromotive means, said first normally open switch being operative when closed to prevent institution of a succeeding drive means cycle through said first pair of switches until both of the manual control elements are released after the end of a drive means cycle to prevent continued energization of the electromotive means through either of the second pair of switches and the first normally open switch after said second normally open switch has opened upon the drive means reaching the end of a cycle of operation.

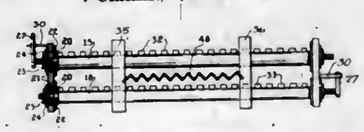


2,639,797

MARGIN STOP ASSEMBLY

Jim Reyklin, New Westminster, British Columbia, Canada

Application March 23, 1948, Serial No. 16,491
7 Claims. (Cl. 197—63)



1. A margin stop assembly for typewriters comprising a pair of parallel round rods each having a plurality of spaced aligned teeth radiating therefrom, means for rotatably supporting the rods on and parallel with the carriage of a typewriter, two margin stops slidably mounted on the rods over the teeth thereof adapted to be engaged by a carriage stop of the typewriter, and means on each margin stop for removably engaging the teeth of one of the rods to lock said stop thereon, each margin stop being engageable with a different rod than the other one, and said rods being individually rotatable to release their stops.

2,639,798

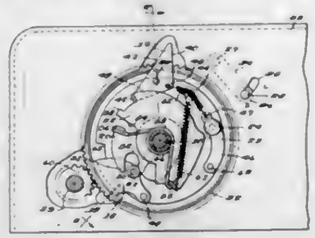
TYPEWRITER PAGE BOTTOM MARGIN INDICATOR

Luis Carlos Jiménez, Panama, Panama

Application February 15, 1951, Serial No. 211,088
4 Claims. (Cl. 197—189)

1. A typewriter sheet bottom margin indicator comprising a platen having a shaft, a carriage

in which the platen is journaled, said carriage having plates at the ends, a stub shaft mounted in an end plate at one end of the carriage and positioned in spaced relation to the said platen shaft, a pinion mounted on the platen shaft, a gear wheel rotatably mounted on the stub shaft and positioned in meshing relation with the said pinion, an inner wheel also journaled on said stub shaft, a trigger carried by the said inner wheel, stops mounted on the end of the carriage and



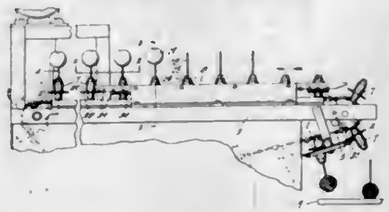
positioned to be engaged by said trigger, releasable means operatively connecting the inner wheel to the gear wheel, a knob journaled on said stub shaft, and spring actuated means settable to cocked position by said knob and latched in cocked position by said trigger for releasing said releasable means, whereby upon tripping engagement of said trigger with one of said stops the parts are released for a return movement thereof.

2,639,799

AUTOMATICALLY RELEASABLE CHUCK FOR CONVEYERS AND THE LIKE

Harry Pikal, Bangor, Mich.

Application February 1, 1950, Serial No. 141,765
16 Claims. (Cl. 198—19)



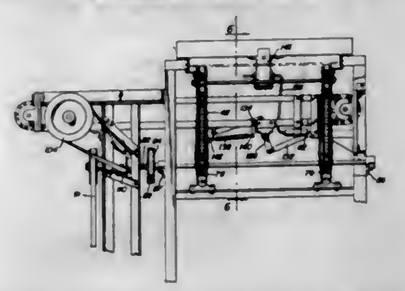
13. In a machine for advancing sticks bodily through a number of working stations and for rotating said sticks about their axes at one of said stations, the combination of a carrier mounted to move in a closed circuit past said stations, a plurality of chuck structures connected to said carrier at intervals therealong, said structures being rotatable about their chucking axes and tiltable laterally of the path of movement of said carrier, said chuck structures including stick gripping means yieldably biased to stick gripping position, and projections on said chuck structures adapted to be engaged by fixed means located adjacent the path of travel of said structures, said projections being operatively connected to the gripping means of said chuck structures to move said means to work releasing position, said chuck structures having circular exterior surfaces coaxial with the axis of rotation of the structures and adapted to be engaged by driving means positioned at said one working station.

2,639,800

ARTICLE TRANSFER FOR BAKERY CONVEYER SYSTEM

James L. Atwood, Nashville, Tenn.

Application April 27, 1950, Serial No. 158,435
5 Claims. (Cl. 198—21)



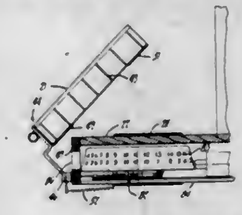
1. In combination, a horizontal article conveyor having a discharge end, a horizontal cross conveyor spaced outwardly from said discharge end below the same, a transfer conveyor at said discharge end of the first named conveyor for receiving articles therefrom, said transfer conveyor comprising a pair of endless driven chains extending around said cross conveyor transversely thereof, and a pair of frames supporting said chains in laterally spaced parallel relation with upper transfer runs traversing the cross conveyor above the same, said frames being pivotally mounted for swinging apart longitudinally of said cross conveyor to correspondingly swing said upper runs for dumping articles therefrom on to the cross conveyor, and means for swinging said frames.

2,639,801

EGG HANDLING MACHINE

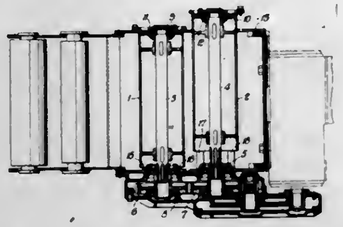
Robert C. Sneed, Piedmont, and Curtis S. Jordan, Maywood, Calif., assignors to Safeway Stores, Incorporated, Oakland, Calif., a corporation of Maryland

Application September 25, 1948, Serial No. 51,192
3 Claims. (Cl. 198—27)



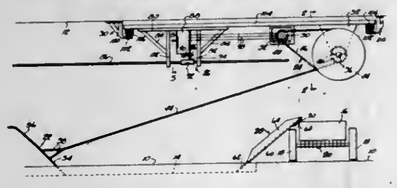
2. In an egg handling machine, an egg carton holder having a flat bottom and at least one open side, a cutaway portion in said bottom, a worktable, means resiliently positioning said holder out of engagement with said work table, a continually driven flat belt passing over said table, said holder being disposed with respect to said conveyor whereby when the carton holder engages said table said belt is disposed within the cutaway portion of the bottom of said holder and above the upper plane of said flat bottom so that a carton therein will be moved out of the open side of said holder, and driving means associated with said belt independent of the operation of said holder.

2,639,802
CONVEYER BELT DRIVING UNIT
Angus Wellesley Duncan, Worcester, England, assignor of one-half to The Mining Engineering Company Limited, Worcester, England
Application October 21, 1949, Serial No. 122,829
In Great Britain October 26, 1948
3 Claims. (Cl. 198—203)



1. In a conveyor having side plates between which a belt is disposed longitudinally, a belt drive assembly comprising a belt drive drum mounted transversely between said side plates, shaft means supporting said drum and fixed therewith, one said side plate having an opening of a size to pass said drum and shaft means, a housing removably mounted on the outside of said one side plate and across said opening, means releasably securing said housing to said one side plate, an idler bearing in said housing journalling one end of said drum shaft means, coupling means on the other end of said drum shaft means, and drive means including a rotatable element journalled on the other said side plate and having coupling means cooperative with said shaft coupling means, whereby said drum may be mounted or removed axially through said side plate opening at its idler end without dismantling the drive means.

2,639,803
STABLE CLEANING DEVICE
Hugh A. Tonagel, Washington Township, La Porte County, and Leo Stephani, Union Township, La Porte County, Ind.; said Tonagel assignor to said Stephani
Application July 13, 1949, Serial No. 104,508
8 Claims. (Cl. 198—224)



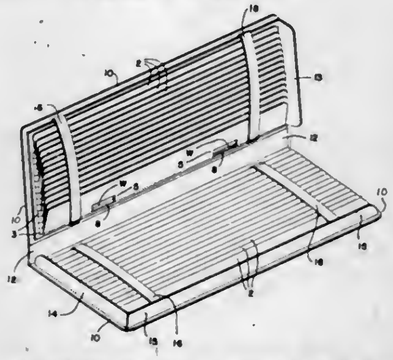
1. A device for cleaning stable gutters, comprising a scraper having a blade portion and a handle portion; an actuator unit including a reversible motor, a motor driven drum and a cable wound on said drum and connected to said scraper to propel said scraper along a selected path; and a control unit including a motor controller electrically connected with said motor and an actuator for said controller, said actuator constituting an elongated overhead member extending alongside said path and connected to said controller whereby it may be reached and manipulated by an operator grasping the handle of said scraper, while the scraper is traversing said path.

2,639,804
SIMULATED GOLF CLUB BEVERAGE AND CUP CONTAINER
Emanuel Merahn, Brooklyn, N. Y.
Application January 7, 1950, Serial No. 137,466
4 Claims. (Cl. 206—4)



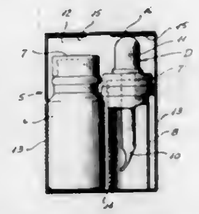
1. A simulated golf club comprising a shaft, a club handle carried on the upper end of said shaft, with a first recess formed in said club handle, liquid vial means disposed in said first recess to receive liquid, closure means for said first recess, for confining said liquid in said vial means, a club head carried on the lower end of said shaft, with a second recess formed in said club head, a plurality of beverage receptacles disposed in said second recess in said club head, to receive, when removed therefrom, liquid poured out of said liquid vial means, and closure means in said club head for closing said second recess.

2,639,805
DISPLAY PACKAGE KIT
Herbert J. Stern, New Rochelle, N. Y., assignor to I. Stern & Co., Inc., New York, N. Y., a corporation of New York
Application September 17, 1949, Serial No. 116,369
2 Claims. (Cl. 206—45.11)



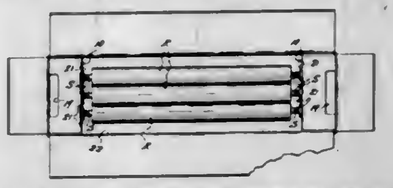
1. A display package kit comprising, in combination, a casing having a pair of foldable panels, pivoted on a hinge plate, which open and close onto each other to provide a said casing of flat form; and a plurality of elongated packages, each one having a sales-data card defined by upper and lower lengthwise parallel edges, with a tubular compartment on and along the lower lengthwise edge of each card and adapted to hold merchandise for sale; the elongated packages being horizontally stacked within the casing, on each panel thereof, and hence on display when the kit is open, the tubular compartments resting against each other and forming a said stack of packages on each panel, with the sales-data cards partially overlapping one another, but the upper margin of each said card being exposed to view; and a tensioning band means mounted on each panel, transversely of the elongated packages, embracing and holding them in each said stack; and a flange on one end of each panel, at opposite ends thereof, said flanges being disposed transversely of the length of the packages and having a depth at least as great as the combined thickness of the two stacks, said flanges covering both ends of the casing and hence both ends of the stacks when said casing is closed, but exposing one end of each panel and hence one end of each stack when said casing is open, by which any one or more packages may be withdrawn from each stack out through the exposed end thereof without disturbing the other packages in said stacks.

2,639,806
COMBINATION PACKAGE
Sidney Recht, Bronx, N. Y.
Application June 20, 1950, Serial No. 169,153
2 Claims. (Cl. 206—47)



1. In combination, a carton provided with a cover flap closing the top of said carton and being operable for opening said top, a container disposed within said carton adjacent one side thereof and being initially equipped with a stopper for distribution within said carton, a tubular member disposed in said carton interjacent said container and the other side of said carton, an applicator normally disposed within said carton in detached relation with said container, said applicator being provided with a closure cap seated upon one end of said member and a dispensing tube extending from said cap into said member for protection of said tube by said member, a compressible bulb connected to said tube and extending from said cap into engagement with the top of said carton whereby said applicator coacts with said container and said member to form a compact assembly disposed wholely within the confines of said carton, said cap being attachable to said container in lieu of said stopper when said top is open to permit dispensing of the contents of said container by said applicator, said flap having a rupturable section with the latter being removed and defining an opening, the distance from the top of said container to said flap being less than the length of said bulb whereby said bulb extends out of said carton through said opening when said cap is so attached and said container disposed within said carton with the top closed by said flap.

2,639,807
SHIPPING PACKAGE FOR PRESS INKING ROLLS
Louis C. Ambrette, Westbury, and John W. McNeil, Brooklyn, N. Y.
Application December 24, 1949, Serial No. 134,986
2 Claims. (Cl. 206—65)



1. A shipping package for press inking rolls comprising an elongated container of rectangular cross-section and provided at its open top side with closure means, and a supported roll assembly within said container adapted to be entered therein or removed therefrom as a unit without necessity for directly handling the rolls per se, said assembly comprising a pair of outwardly endwise open hollow rectangular supporting members sized to snugly fit transversely within the container respectively at opposite ends of the latter with their outwardly open ends abutting the container end walls, the inner closed end walls of each supporting member having spaced perforations, corresponding perforations of said closed end walls of the respective supporting members being in longitudinally aligned opposition, a plurality of rolls extending between said supporting members, said rolls having endwise projecting shaft portions respective free ends of which are engaged through corresponding aligned perforations in the closed end walls of said supporting members, whereby to support and carry said rolls in longitudinal extension between said supporting members, and uppermost side walls of the respective supporting members having finger insertion passages therein, whereby the opposite supporting members can be simultaneously grasped so as to lower or raise the assembly as a unit to enter the same in or remove the same from the container without necessity for touching the supported rolls.

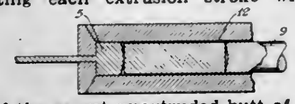
2,639,808
PACKAGING OF TACKY MATERIALS
Arthur W. Barry, Charleston, W. Va., and Franklin S. Chance, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 13, 1947, Serial No. 734,562
1 Claim. (Cl. 206—84)

A tacky, chloro-sulfonated polyethyylene enveloped in a thin, solid, non-tacky film of the interpolymers of ethylene with vinyl acetate in which the mol ratio of ethylene to vinyl acetate is at least 6:1.

2,639,809
EXTRUSION OF CONTINUOUS METAL ARTICLES
Robert E. Perry, Gerhard Ansel, and Robert L. Dietrich, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application April 2, 1947, Serial No. 738,990
4 Claims. (Cl. 207—10)

1. In the hot extrusion of magnesium-base alloy billets to form a continuous product in

a direct-extrusion press having a cylinder, ram, and die, the steps of: extruding each billet through a die of sufficiently restricted open area that the reduction in cross-sectional area during extrusion is at least 75:1, forming the rear end of each billet to a convex shape during extrusion thereof by applying the extrusion pressure thereto by means of a concave-ended ram, terminating each extrusion stroke when the



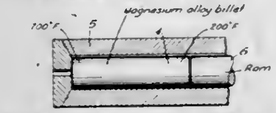
length of the as-yet unextruded butt of the billet in the cylinder is between one-half and once its diameter, inserting the next billet in the cylinder behind the butt, and then making the next extrusion stroke, thus causing rearward expulsion of any air from the space between the butt and the inserted billet and welding of the butt and billet so that the latter issues from the die as an integral continuation of the extruded butt.

2,639,810

EXTRUSION OF METAL BILLETS HAVING A TEMPERATURE GRADIENT

Jack P. Doan, Midland, Mich., assignor to The Dow Chemical Company, a corporation of Delaware

Application April 10, 1947, Serial No. 740,547
2 Claims. (Cl. 207—10)



1. In hot-extruding metal billets in an extrusion press having a cylinder, die, and ram, the improvement which comprises pretreating each billet to establish within it a temperature gradient such that one entire end of the billet is at a hot-working temperature and the other entire end of the billet is at a temperature below the minimum hot-working temperature, and while such gradient persists inserting the billet in the press cylinder with the hotter end toward the die and subjecting it to extrusion pressure from the ram, such pressure being applied uniformly over the entire rear face of the billet whereby the billet is upset progressively beginning at the hot end and air around the billet is expelled rearwardly from the cylinder.

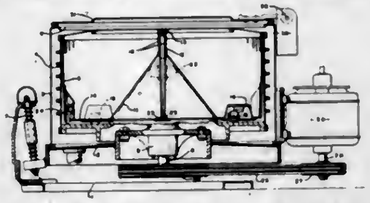
2,639,811

UNLOADING EXTRACTOR

Joseph B. Sando, Syracuse, and Wallace F. Gayring, Minoa, N. Y., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Application June 18, 1948, Serial No. 33,816
3 Claims. (Cl. 210—76)

1. A centrifugal extractor comprising a stationary frame having an upright circumferential curb wall, a power-rotatable, perforated, cylindrical basket mounted in the frame with its peripheral wall spaced from the upright curb wall of the frame, containers in the basket, the containers being complemental segments of a cylinder, the peripheral walls of the segments being concentric with the cylindrical wall of the basket and being perforated, the containers being mounted in the basket to rest on the bottom of the basket and to shift radially to frictionally engage the peripheral walls of the containers with the peripheral wall of the basket, and spring means connecting the containers to yieldingly resist outward shifting movement under



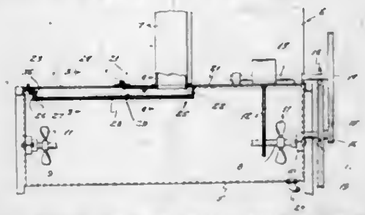
the centrifugal force of the rotating basket, the peripheral walls of the containers being normally spaced from the inner face of the wall of the basket and coacting, when the containers are thrown outward under the centrifugal force, friction clutch fashion, with the inner face of the cylindrical wall of the basket.

2,639,812

SLURRY TANK FOR SEED TREATING MACHINES

Morris W. Guyer, Spokane, Wash., assignor to Calkins Manufacturing Company, Spokane, Wash., a corporation of Washington

Application June 13, 1949, Serial No. 98,832
3 Claims. (Cl. 210—155)



1. A slurry tank for seed treating machines having a cover in which there is a small slurry overflow inlet and a larger rectangular filling inlet, said inlets being spaced apart, the slurry overflow inlet being surrounded by an upstanding housing, the cover having a lid covering the filling inlet and movable to open the filling inlet, and a single screen tray in the tank, less in width than the filling inlet so it may enter the tank through the filling inlet, said tray extending beneath and providing a screen under the filling inlet and under the slurry overflow inlet, the tray being removable through the filling inlet by lifting the portion thereof below the filling inlet and swinging the portion thereof beneath the overflow inlet downwardly and then moving the tray edgewise through the filling inlet, the screen tray having means thereon engaging the edges of the cover around the filling inlet to support the screen tray on the cover beneath said lid, the cover having a depending rib thereon between the inlet openings which rib extends down into the tray.

2,639,813

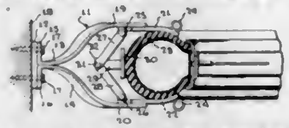
BICYCLE RACK

Sherman M. Risvold and Rachel M. Risvold, Huxley, Iowa

Application June 8, 1951, Serial No. 230,614
3 Claims. (Cl. 211—19)

1. A bicycle holder comprising a support, a pair of resilient arms secured to said support

in side-by-side relation, the free portions of said arms being bowed outwardly to define opposed, spaced jaws adapted to receive the periphery of a bicycle wheel therebetween, a pair of pivotally connected toggle links connecting said jaws, and



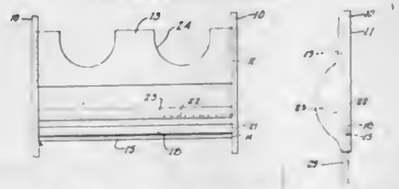
an outwardly facing abutment member pivotally secured to the junction of said links, said jaws being arranged to clamp the wheel therebetween responsive to inward movement of said abutment member by the wheel.

2,639,814

APPAREL RACK

Paul S. Hybertsen, Milwaukie, Oreg.

Application March 29, 1947, Serial No. 738,068
4 Claims. (Cl. 211—32)



1. An apparel rack comprising a pair of vertical end brackets having wall engaging edges, said brackets having flat sides disposed perpendicularly to the wall, a flat article support member disposed in a vertical plane substantially parallel with the wall and providing a rigid support interconnecting the upper portions of said end brackets, said support member having a downwardly curved cut-out in its upper edge for receiving the crown of a hat and being spaced from the plane of the wall a sufficient distance to enable disposition of the brim of the hat between said member and the wall surface, a rod-like support member interconnecting the lower portions of said brackets in the plane of said flat support member, and a flat shelf-like member disposed in a horizontal plane perpendicular to said first support member and interconnecting said brackets intermediate said first two support members, said support members and said shelf-like member providing right angular braces for said rack restraining said end brackets against displacement in either a vertical or horizontal direction.

2,639,815

TOOL RACK

Alexander E. Paluck, Belfield, N. Dak.

Application July 22, 1949, Serial No. 106,291
2 Claims. (Cl. 211—60)

1. In a tool rack, a pair of plates in coextensive spaced parallel relation, a fixed jaw having an inner end portion positioned between and fixed to the plates and an outer end portion projecting outwardly from the plates, and a movable jaw positioned at and extending along a side of said fixed jaw, said movable jaw having an inner end portion positioned between and pivoted to said plates to enable the outer end portion of the movable jaw to be swung toward and away from the outer end portion of the fixed jaw, the facing sides of the jaws being formed with tool-gripping means said plates having outer edges positioned inwardly of the outer end portions of the jaws, and a flange extending along the outer edge of at least one of said plates and projecting laterally



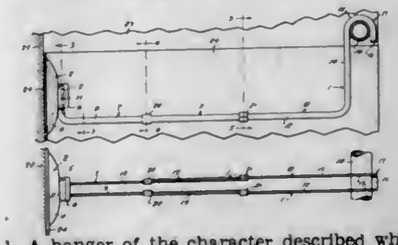
from the plane of the plate against which a tool is adapted to be fulcrumed to pry the movable jaw away from the fixed jaw to permit removal of the tool from between the jaws.

2,639,816

CLOTHES DRYING RACK

Hazel D. Fogg, Falls Church, Va.

Application March 3, 1950, Serial No. 147,367
3 Claims. (Cl. 211—86)



1. A hanger of the character described which comprises a rear section, a front section, and means slidably connecting said sections together; said rear section comprising two spaced parallel horizontal arms which are joined together at one end by a loop which is disposed above and is perpendicular to said arms; said front section comprising two spaced parallel horizontal arms which extend upwardly a substantial distance at one end thereof and terminate in identical downwardly opening hooks which are tied together by a connecting link; and a suction cup removably secured in said loop.

2,639,817

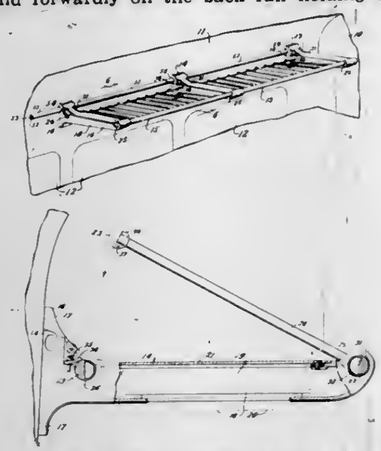
BAGGAGE RACK

Yale W. Ehret, Elkhart, Ind., assignor to The Adlake Company, a corporation of Illinois

Application March 28, 1950, Serial No. 152,469
7 Claims. (Cl. 211—90)

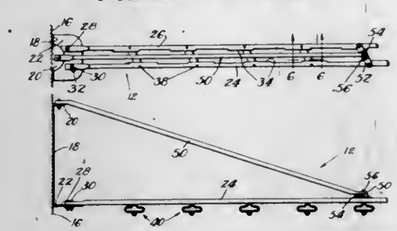
5. In a baggage rack, spaced brackets adjacent sides of which have aligned inclined notches in their outer end portions and aligned vertical notches in their inner end portions, a floor section including front and back rails and connecting elements all disposed in substantially a single plane, said front rail having its ends in said aligned inclined notches and said back rail having its ends in said vertical notches, and clamps

secured to said brackets and bearing downwardly and forwardly on the back rail holding the



back rail fast in said vertical notches and holding the front rail seated in said inclined notches.

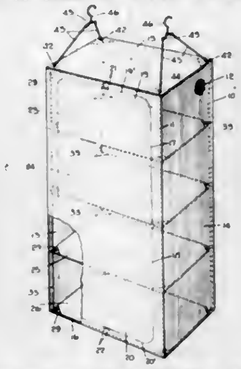
2,639,818
FOLDING CLOTHES POLE
Ira E. Wells, Chicago, Ill.
Application September 2, 1947, Serial No. 771,647
6 Claims. (Cl. 211—96)



1. A clothes pole construction comprising, in combination, a bracket having a front and rear side, the rear side of the bracket having hook means adjacent the top thereof and spacing means adjacent the bottom thereof, the front side of the bracket having upper and lower horizontal extensions adjacent the top and bottom thereof respectively, a pair of arms pivoted in said lower horizontal extension at horizontally spaced points and adapted to swing in a common horizontal plane, a plurality of links at spaced intervals along the length of said arm and having their ends pivoted in respective arms, hook means on the links adapted to support garment hangers, and brace means pivoted in said upper horizontal extension and secured to the swinging end of said arms.

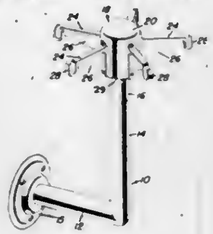
2,639,819
KNOCKDOWN SHELVING
Saul H. Marks, Brooklyn, N. Y., assignor to Phoenix Closet Accessories, Inc., New York, N. Y., a corporation of New Jersey
Application April 15, 1950, Serial No. 156,169
5 Claims. (Cl. 211—114)

2. A shelf construction comprising a plurality of horizontally disposed shelf members arranged one above the other in spaced relationship, corner portions of said shelf members having triangular corner brackets channeled diagonally, the brackets of intermediate shelves being disposed upon the upper and lower surfaces thereof and being of common construction, and rigid



rods having angularly extending ends detachably coupled with the channels of said brackets for coupling, supporting and spacing the shelf members one with respect to the other.

2,639,820
BARBER'S CLIPPERS STAND
Wilson A. Lee, Amarillo, Tex.
Application November 17, 1950, Serial No. 196,215
1 Claim. (Cl. 211—163)

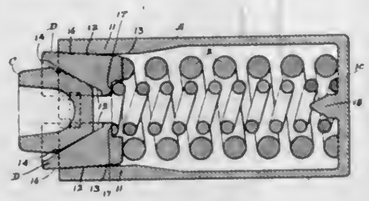


A device for holding barber's clippers, said device comprising a support including a vertically rising tube having an open upper end, a cap closing the upper end of said tube, said cap comprising a disc having an integrally depending peripheral flange concentrically surrounding the upper end of said tube, a rod secured to and depending from the center of said disc and being rotatably mounted in the open upper end of said tube, radially extending arms secured to the outer surface of said peripheral flange and being spaced circumferentially therearound, and upwardly opening hooks formed at the outer ends of said arms, said arms constituting hangers for barber's clippers.

2,639,821
FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS
Vernon S. Danielson, Dolton, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 17, 1948, Serial No. 65,840
8 Claims. (Cl. 213—34)

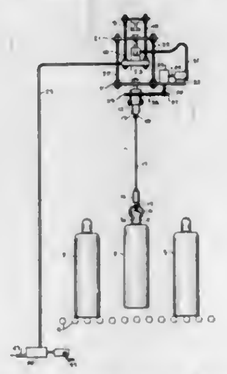
1. In a friction shock absorbing mechanism, the combination with a friction casing open at

one end, said casing having an interior set of longitudinally extending, straight friction surfaces at its open end, and a second set of interior longitudinally extending, straight friction surfaces inwardly of said first named set, forming continuations of the latter, the surfaces of said first named set diverging outwardly of the casing and being inclined outwardly away from said second named set; of friction shoes slidable within



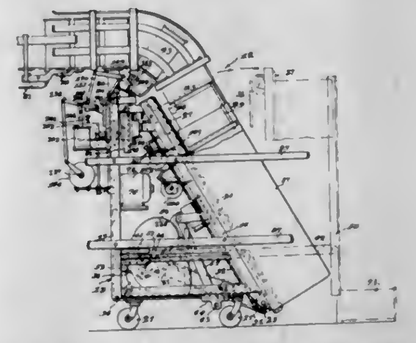
said casing and engageable with said first and second named sets of friction surfaces in succession; a wedge pressure transmitting member, said wedge pressure transmitting member and said shoes having cooperating sets of wedge faces, one face of each set being crowned to provide for rocking movement of the shoes on said wedge pressure transmitting member; and spring means within the casing yieldingly opposing inward movement of the shoes.

2,639,822
PNEUMATIC LIFTING AND ROTATING MACHINE
Henry V. Sax and Howard V. Dressler, Martinez, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application April 22, 1949, Serial No. 89,086
5 Claims. (Cl. 214—1)



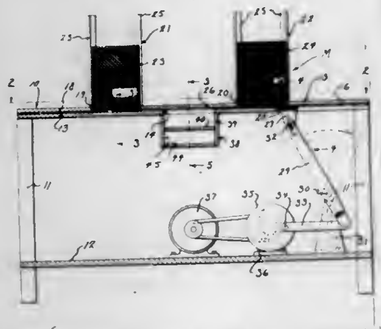
1. A pneumatic article lifting and turning device comprising, in combination, a supporting member; a supported member movably mounted on and having upward and downward motion with respect to the supporting member; a pneumatic cylinder and piston interposed between said members for imparting upward and downward motion to the supported member; rotatable article-engaging means on said supported member adapted to support an article with the axis of the article substantially on the axis of rotation of the article-engaging means; a pneumatic motor carried by said supported member for rotating said article-engaging means about said axis of rotation continuously with respect to said supporting member as long as gas under pressure is supplied thereto; supply means for supplying a gas under pressure to said cylinder; a port in a wall of said cylinder located to be controlled by a portion of said piston so as to be in communication with the gas in the cylinder only in a predetermined position of the piston therein; conduit means connecting said port with said pneumatic motor; and means independent of said conduit means for discharging gas from said pneumatic motor whereby gas is supplied to said pneumatic motor from said supply means through the cylinder and port and said article-engaging means is rotated as long as said piston is in said predetermined position.

2,639,823
TIN CAN STACKER
Homer W. Madden, Hanover, Ind.
Application May 26, 1950, Serial No. 164,425
16 Claims. (Cl. 214—6)



16. A tin can stacking machine comprising a supporting structure having a swingably mounted wall normally disposed at an incline and against which cans are adapted to be stacked in courses when the wall is disposed at an incline, an elevator disposed on the outer side of said wall and extending from end-to-end thereof, said elevator having can supporting elements projecting perpendicularly from the plane of said wall on which the bottom course of the stacked cans are supported, a feeder chute mounted on the supporting structure having a downwardly inclined discharge end opening above said wall when the wall is disposed at an incline and adapted to feed cans therefrom onto the wall and elevator, feeder drive means reciprocably moving the feeder chute back and forth along the top of the wall, elevator drive means moving the elevator from top to bottom of the wall as the feeder chute is reciprocated, means for rocking the wall away from the supporting structure to an upright position when the elevator has reached a lowermost position of its travel, and an intermittently driven unloading means including elements disposed in nested positions in the wall for swinging movement therewith, said elements being actuated by an intermittently driven portion of the unloading means when the wall is in an upright position for movement outwardly of the wall from a nested position therein and behind the cans for engaging and displacing the cans away from said wall for unloading the cans from the elevator.

2,639,824
BATTERY SEPARATOR DISPENSING MECHANISM
John K. Shannon and Robert R. Schmit, Kenosha, Wis.
Application June 8, 1949, Serial No. 97,719
1 Claim. (Cl. 214—8.5)



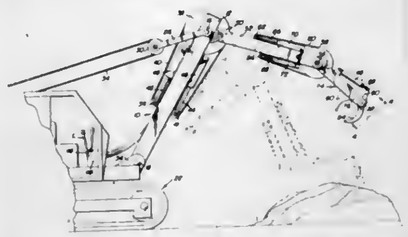
A machine for dispensing battery separators with first one separator with its ribs uppermost and the next separator with its ribs lowermost comprising a table including a lower stationary plate, an upper stationary plate, longitudinal spacer strips between said plates at their front and rear portions to define a guideway, said lower plate having a centrally disposed opening of a size at least equal to a separator plate, an inclined chute carried by the lower plate communicating with said opening, said upper plate having spaced openings each of a size at least equal to a separator plate, a hopper carried by the upper plate for receiving a stack of separators with their ribs uppermost disposed over one opening in the upper plate and a second hopper for receiving a stack of separators with their ribs lowermost disposed over the other opening in the upper plate, a shuttle plate reciprocally mounted in the guideway having an opening therein for movement past the openings in the upper plate and the opening in the lower plate for receiving first one separator from one stack and then a separator from the other stack, and means for reciprocating the shuttle plate at an even rate of speed, said chute opening at the front of the machine.

2,639,825
VEHICLE-MOUNTED HOISTING APPARATUS
Lourie L. Eakin, Ventura, Calif.
Application May 6, 1947, Serial No. 746,248
5 Claims. (Cl. 214—77)



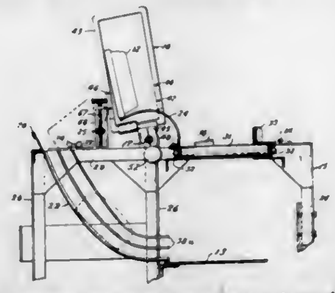
3. In a vehicle, hoisting means for loading objects on and unloading them from the vehicle, including: a boom pivoted transversely of the vehicle to adapt it to pivot to a forward position overlying the vehicle, to a rearward position projecting rearwardly from the vehicle, and to positions intermediate said forward and rearward positions, said boom having an arm and a cam projecting from its pivotal end; primary fluid actuated piston means connected to said arm and operable to pivot said boom through the major portion of its movement in either direction; a pair of secondary fluid actuated pistons disposed forwardly and rearwardly respectively of the pivotal point of the boom, and adapted to be moved to extended position to engage said cam to limit the pivotal movement of said boom, and adapted to be moved to retracted position to permit said boom to complete its pivotal movement to extreme forward and rearward positions under the influence of gravity, said secondary pistons being also operative, upon movement to extended position and relative to said cam, to initially pivot said boom in a direction away from its forward and rearward positions.

2,639,826
ARTICULATED BOOM
David P. Welden, Iowa Falls, Iowa
Application April 10, 1950, Serial No. 155,076
1 Claim. (Cl. 214—147)



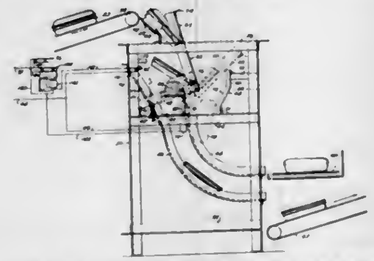
A flexible boom comprising a pair of vertically swingable, spaced parallel beams having outer end portions; a horizontal shaft mounted on the outer end portions of said beams; a pulley journaled for rotation on said shaft; first and second parallel jack cylinders mounted on the beams adjacent the pulley and including piston rods movable outwardly from the cylinders toward the inner end portions of the beams; rollers carried by the outer ends of the piston rods; a cable trained over the pulley and the rollers and dead ended to the cylinders; means operatively connected to the cylinders for extending the piston rod of one cylinder while retracting the piston rod of the other cylinder to rotate the pulley; a pair of spaced parallel arms secured to and rotatable with the pulley and having outer ends; a second horizontal shaft carried by the outer ends of said arms; a second pulley mounted on said second shaft; a grapple secured to said second pulley and rotatable therewith; a second pair of jack cylinders supported by said arms adjacent the second pulley and having piston rods that are extended from the second cylinders toward the first mentioned pulley; rollers carried by the outer ends of the last named piston rods; a second cable trained over the second pulley and the last named rollers and dead ended to the second cylinders; and means connected to the second cylinders for moving the piston rods of the second cylinders in relatively opposite directions to rotate the second pulley.

2,639,827
PAN DUMPING DEVICE
Karl H. Otte, Chicago, Ill., assignor to Purity Bakeries Service Corporation, a corporation of Illinois
Application July 3, 1948, Serial No. 36,972
10 Claims. (Cl. 214—308)



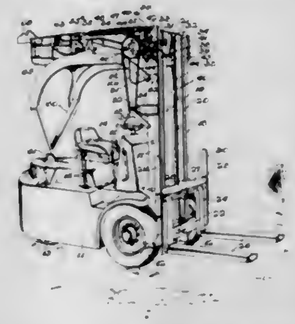
9. A device for extracting bread from baking pans comprising a support across which the loaded pans move in a forward direction, an open frame having top and side portions mounted on the support for rotation about a horizontal axis parallel to said forward direction and adapted to receive within its confines and with substantial side and top clearance, a set of bread containing pans, means for rotating the frame in a direction to at least partially invert the pans and subjecting the pans during such rotation to translatory movement within the frame followed by a sudden stop to thereby jar the bread from the pans and cause it to fall therefrom, said rotating means also moving the frame in the opposite direction to return the empty pans to the support.

2,639,828
EXTRACTING DEVICE FOR BAKERY PRODUCTS
Karl H. Otte, Chicago, Ill., assignor to Purity Bakeries Service Corporation, a corporation of Illinois
Application December 30, 1946, Serial No. 719,267
12 Claims. (Cl. 214—308)



1. In a depanning device for removing loaves of bread from the pans in which they are baked, the combination of a conveyor for conveying pans of bread in a forward direction to a depanning station, and means associated with the conveyor for inverting and dumping the pans of bread as they are delivered to the depanning station, said means including a frame pivoted along an axis transverse to the line of movement of the conveyor and having openings therein large enough for a loaf of bread to pass through but not large enough for the pans to pass through, said means also including means for sharply arresting movement of the pans as they move downwardly in an inverted position whereby the loaves of bread fall through the opening in the frame while the pans remain therein.

2,639,829
FORK TRUCK HAVING PIVOTALLY MOUNTED EXTENSION FOR HIGH LEVEL DUMPING
George R. Dempster and Harry W. Jones, Knoxville, Tenn., assignors to Dempster Brothers Incorporated, Knoxville, Tenn., a corporation of Tennessee
Application June 13, 1949, Serial No. 98,844
15 Claims. (Cl. 214—317)

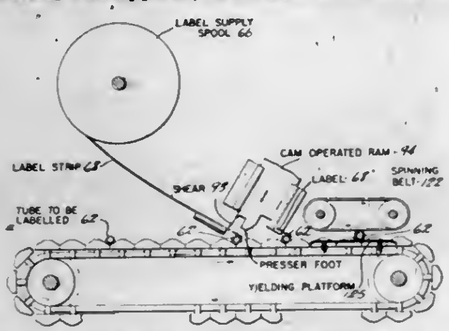


1. In a fork truck of the type comprising a truck body, upright ways mounted on said body and a fork for movement up and down said ways, in combination with said ways, extension arms pivotally mounted on said ways, means for moving said extension arms into and out of a position in which said extension arms constitute extensions of said ways, a slide mounted on said ways, means mounted on said body for moving said slide, a carriage supporting said fork and slidable on said ways into cooperative relationship with said extension arms when in operative position, automatic hooks carried by said extension arms adjacent the outer extremities thereof for cooperation with a load on said fork, and means on said ways for cooperation with said carriage to prevent excessive downward movement of said carriage while a load is suspended on said hooks, said means including a latch member pivoted on a way, resilient means for moving said latch member into the path of downward movement of said carriage, and means for releasing said latch member.

2,639,830
MACHINE FOR ATTACHING AND WIPING LABELS ON CONDUITS OR OTHER CYLINDRICAL ARTICLES
Joseph Weimont, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y., a corporation of New York
Application January 7, 1950, Serial No. 137,306
15 Claims. (Cl. 216—23)

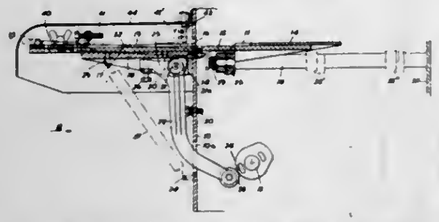
1. A machine for applying adhesive labels to substantially cylindrical articles, said machine having a label applying station with means for moving a label into contact with a limited portion of the longitudinal length of an article at the station, a conveyor that moves successive articles to and beyond the label applying sta-

tion, apparatus beyond the station in position to contact with a different portion of the longitudinal length of the article from that to which the label was applied, said apparatus being mov-



able in a direction to roll each successive article that comes from said station, and a contact pad across which the label is wiped as the article rolls.

2,639,831
LABELING MACHINE
Robert John Newman and David Sidney Friend, London, England
Application April 16, 1951, Serial No. 221,154
In Great Britain January 1, 1951
2 Claims. (Cl. 216—54)



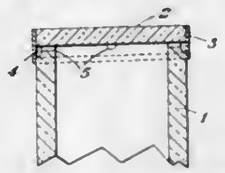
1. In a labelling machine having a label box, a pair of side gum plates spaced apart to form a gap between them and mounted for reciprocatory movement in the plane of said plates, means for moving the label box against the gum plates for transferring a label from the label box to the gum plates, gumming means for applying gum to the gum plates at a gumming position and label applying means located at a label applying position spaced from said label box for transferring a label from the gum plates to an article to be gummed, the provision of means for reciprocating said gum plates lengthwise thereof from the gumming position through the label box position to the label applying position, a tiltable carrier mounted on an axis transverse to the direction of reciprocation of said plates, a central gum plate located between said side gum plates and mounted on said carrier slidably lengthwise of said plates, resilient means for advancing said central gum plate slidably on said carrier to maintain the central gum plate in said gap while the side gum plates move from the gumming position to the label box position, means for tilting said carrier to move the central gum plate out of said gap when the label box has applied a label to the plates, a pair of coacting abutments attached to the side gum plates and to the central gum plate respectively, said resilient means urging said abutments into engagement with one another, and a second pair of abutments attached to the central gum plate and to the frame respectively for preventing advance movement of the central gum plate and to the frame respectively for preventing advance movement of the central gum plate beyond the label box position of the gum plates.

2,639,832
HOLDING SEAL FOR CRANKCASE GASKETS
Carl N. Bergstrom, Portland, Oreg.
Application June 11, 1949, Serial No. 98,495
2 Claims. (Cl. 218—29)



2. In combination; a first member of predetermined thickness adapted for being secured to a second member, a screw extending through said first member for threaded engagement with said second member, and a cylindrical ferrule of deformable plastic material mounted on the screw and tapering to a thin edge toward the head end of the screw and having a radial flange at its opposite end, said flange being disposed between said members with the cylindrical portion extending through said first member, and the length of the cylindrical portion of the ferrule being greater than the thickness of said first member, whereby when the screw is drawn up tight the cylindrical portion of said ferrule is deformed to form a seal about said screw, the cylindrical portion of the ferrule being provided with a thread engaging projection extending radially inwardly thereof whereby the screw is supported by the ferrule.

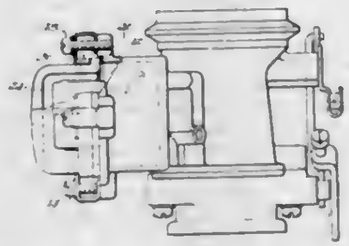
2,639,833
VACUUM SEAL
Ernst Schwarz, London, England, assignor to Hilger & Watts Limited, London, England, a company of Great Britain
Application July 9, 1951, Serial No. 235,885
In Great Britain April 28, 1950
9 Claims. (Cl. 220—2.3)



8. A closure for a vacuum vessel having an opening at the end of a tubular part thereof, comprising a cover of substantial thickness and of a diameter approximately equal to the external diameter of said tubular part, said cover being arranged on and in contact with the end of said tubular part to close the vessel, said vessel being provided adjacent the end of said tubular part with a relatively narrow, shallow peripheral groove, and a metal foil of cylindrical shape cemented to the outer surface of the tubular part and to the outer edge of the cover, said foil being substantially wider than and extending above and below said groove.

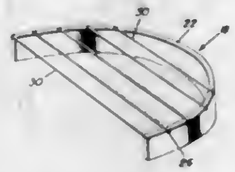
2,639,834
FASTENING MEANS FOR CLOSURES
Harry B. Medley, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application May 26, 1950, Serial No. 164,487
1 Claim. (Cl. 220—46)

A clamping means for connecting a non-metallic flanged cover to a metallic body comprising a gasket between said flange and body, a ring surrounding said cover and abutting the outer face of said flange, and clamping means engaging said ring to press said flange and gasket against said body, said clamping means compris-



ing generally J-shaped resilient elements, the short leg thereof bearing against said body and the long leg thereof extending over the outer edge of said ring, and fastening means extending through said legs into threaded engagement with said body.

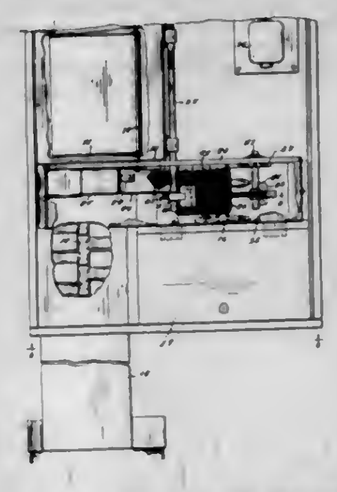
2,639,835
PAINT BRUSH REST
Delbert H. Nelson, Modesto, Calif.
Application January 6, 1953, Serial No. 329,770
3 Claims. (Cl. 220—90)



3. A readily applicable and removable attachment for a paint can comprising a longitudinally bowed band forming a substantially semi-circular frame member, said band being of a cross sectional thickness to fit telescopically and snugly into a seating channel therefor provided in a portion of a conventional type paint can, and a plurality of coplanar rods disposed in space parallelism, the upper edge of said band having cooperating notches and the adjacent ends of the rods being fitted into said notches and secured to the band to provide a device which is both a brush rest as well as a scraper for wiping off surplus paint.

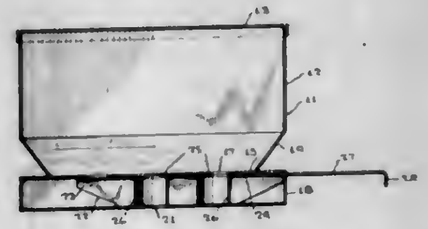
2,639,836
SEED TREATER
Claude C. Calkins, Spokane, Wash., assignor to Calkins Manufacturing Company, Spokane, Wash.
Application March 27, 1950, Serial No. 152,217
5 Claims. (Cl. 222—227)

1. In a machine for treating seeds, a tank for seed treating slurry, an agitator shaft in the tank, agitators on said shaft, a slurry pan having an outlet, a metering cup movable alternately into and out of filling position beneath the outlet from the pan, a flexible drive member extending beneath the shaft and operably connected to said shaft to rotate the shaft, the flexible drive member extending upwardly from the shaft on opposite sides of the pan and extending over the pan, power means for driving the drive member, buckets on said member which are filled with slurry as the member passes beneath the agi-



tator shaft, and means to dump the buckets as they pass over the pan.

2,639,837
COFFEE DISPENSER
William A. Stockdale, Zanesville, Ohio
Application April 3, 1951, Serial No. 219,069
2 Claims. (Cl. 222—276)



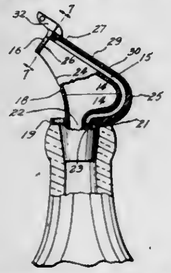
2. A dispenser for granular material comprising a container having a horizontal bottom wall formed with a pair of longitudinally spaced metering openings, a horizontal rectangular housing secured to said bottom wall, the bottom of said housing comprising a flat horizontal plate extending parallel to and being substantially equal in length to said bottom wall, said plate being formed with a discharge opening located midway between said metering openings, and a downwardly facing valve member having a channel-shaped transverse cross section slidably mounted on said plate for longitudinal movement in said housing, said valve member having its side flanges disposed inwardly adjacent the longitudinal side walls of the housing and being provided with a pair of depending conduits connected to its web and being longitudinally spaced apart by a distance substantially equal to one-half the distance between said metering openings, whereby one of said conduits registers with the discharge opening when the other conduit registers with one of the metering openings, said conduits being substantially equal in vertical height to the vertical height of the housing and making sliding contact at their rim portions with the bottom wall of the container and with said plate.

2,639,838
PUMP
Daniel H. Bierman, Malverne, and Joseph A. Jawett, Jamaica, N. Y., assignors to Liquidepth Indicators Incorporated, Long Island City, N. Y., a corporation
Application April 27, 1948, Serial No. 23,574
12 Claims. (Cl. 222—402)



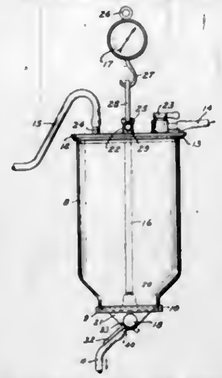
1. A pump for injecting a gaseous medium into a liquid container, comprising a cylinder member with an open end, a piston member extending through the open end of, and slidably received in, said cylinder member to form therein a compression chamber, said members having an inlet passage into, and an outlet passage from, said compression chamber, respectively, of which said outlet passage is provided with a valve seat intermediate its ends, means for opening and closing said inlet passage, said means comprising a check valve in said inlet passage closing the latter on compression of a fluid charge in said chamber and a float valve in said outlet passage adapted to become seated on said valve seat by liquid entering said outlet passage from the outer end thereof.

2,639,839
REGULATING POUROUT FOR BOTTLES
Edward Sokolik, New Brighton, Minn.
Application October 27, 1949, Serial No. 123,840
6 Claims. (Cl. 222—479)



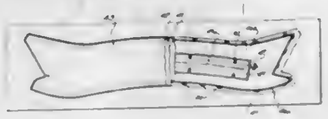
1. In a pouring device of the character described, the combination and arrangement in a body including a combined spout-portion and a stopper portion in combination with a bottle, of a pouring passageway extending through the body from end to end of said body and of an air passageway communicating the confines of the bottle with the atmosphere to admit a volume of air corresponding to the volume of contents being poured out, and with the body in a horizontal pouring position, the portion of the pouring passageway extending through the spout portion being arcuately downwardly deflected at the bottom thereof and humped at the top thereof adjacent the stopper-portion and sloping, generally in a straight line, to the free end of the spout-portion and diverging at the sides thereof to the free end of the spout-portion, thereby being transitioned from a generally rounded orifice at the free end to a narrow and high portion of the passageway adjacent the stopper-portion and being substantially of a uniform cross-sectional area throughout said spout-portion, and through the stopper-portion, of at least a corresponding cross-sectional area, the volume of the pouring stream being easily and precisely regulated as the stream flows through the narrow and high portion of the pouring passageway in the process of pouring, since a major tilting of the bottle is necessary to produce a minor change in the volume of the pouring stream; means for opening and closing the pouring orifice of the pouring passageway; and means for opening and closing the outer air orifice of the air passageway.

2,639,840
LIQUID WEIGHING AND DISPENSING VESSEL
Herman A. Wons, Albert Lea, Minn., assignor to Universal Milking Machine Division, Waukesha, Wis., a division of National Co-Operatives, Inc., a corporation of the District of Columbia
Application April 16, 1949, Serial No. 87,887
1 Claim. (Cl. 222—485)



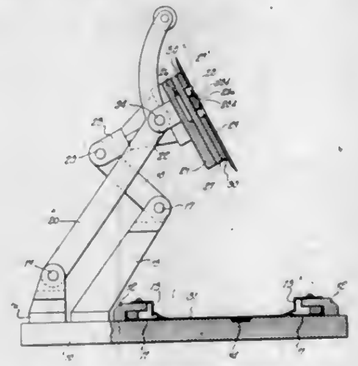
A liquid weighing and dispensing vessel comprising, an upright tubular body, upper and lower closures sealingly engaging the respective upper and lower ends of said body, said lower closure being of unitary construction and having an integral central portion projecting upwardly into said body and an integral portion extending downwardly below said body, a tie rod extending through said body along the central axis thereof and secured at one end to the upwardly projecting portion of said lower closure and at the other end to said upper closure to clamp said body therebetween, a liquid inlet conduit communicating with the interior of said body through said upper closure laterally of said tie rod, a flow control valve confined entirely within the downwardly extending portion of said lower closure beneath said tie rod and in axial alinement therewith, a passage in said lower closure extending angularly from said valve to the interior of said body laterally of said tie rod, and a pair of angularly directed discharge conduits connected to the downwardly extending portion of said lower closure and communicating with said passage past said valve, said valve being operable to interchangeably connect said angular passage with either or both of said discharge conduits.

2,639,841
METHOD AND APPARATUS FOR MAKING COLLARS
Benjamin Liebowitz, Lewisboro, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York
Application March 5, 1949, Serial No. 79,758
In Great Britain January 16, 1947
54 Claims. (Cl. 223—2)



8. A method of making a collar or the like having a fold-over portion and a band portion and comprising a plurality of plies which comprises assembling the collar plies, stitching the collar plies along and adjacent the margin of the fold-over portion of the resulting assembly, then pressing the assembly between a crease-forming edge and a backing of yieldable resilient material along a predetermined line within and closely adjacent said stitching to form a crease in the plies of said assembly following the contour of said line and disposed according to the predetermined outline of the fold-over portion of the finished collar, and thereafter turning the assembly with flexure of said plies substantially along said crease.

2,639,842
METHOD AND APPARATUS FOR THE MANUFACTURE OF COLLARS
Benjamin Liebowitz, Lewisboro, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York
Application January 24, 1950, Serial No. 140,245
10 Claims. (Cl. 223—2)



5. In apparatus for use in the manufacture of a collar or the like comprising a member presenting a templet having a peripheral edge whose contour follows the desired finished contour of at least a portion of the collar, a second member presenting a surface adapted to oppose said templet, means for bringing said members into and away from opposed relation to permit the insertion and pressing between said templet and said surface of a collar ply disposed with a marginal portion thereof extending beyond said peripheral edge of said templet when said templet and said surface are in opposed relation and means for folding said marginal portion of said collar ply over said edge with formation in said ply of a crease having the contour of said edge when said templet and said surface are in opposed relation; applicator means for applying a foldline-forming tape to said collar ply, said applicator means comprising an elongated holder carried by one of said members adapted to marginally hold said tape and to press said tape against said ply in predetermined spaced relation to said edge when said templet and said surface are brought into opposed relation for pressing said collar ply therebetween.

2,639,843
METHOD AND APPARATUS FOR THE MANUFACTURE OF COLLARS
Benjamin Liebowitz, Lewisboro, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York
Application January 24, 1950, Serial No. 140,246
17 Claims. (Cl. 223—2)



1. A templet having a peripheral edge whose contour follows the contour of at least a part of the foldover portion of a collar whereby said templet when inserted between the plies of a run and turned collar assembly is adapted to be gauged according to the contour of the foldover portion of the assembly, said templet having attached to one face thereof holding means comprising an elongated channel adapted to hold foldline-forming material therein in predetermined spaced relation to said peripheral edge for affixation to one of the plies of the assembly when said templet is inserted therebetween.

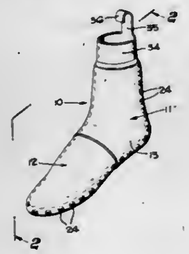
2,639,844
GARMENT DISPLAY DEVICE
Zolton Udvardy, New York, N. Y.
Application December 7, 1951, Serial No. 260,469
3 Claims. (Cl. 223—68)



1. A garment display device adapted for attachment to and suspension below a garment

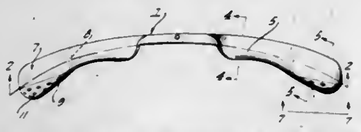
hanger and comprising a flexible cord, a substantially flat one-piece forming member swingably connected to the lower end of the cord intermediate the ends of the member and extending transversely thereof, said member being pliable and adjustable as to width, and means for adjusting the cord to vary the effective length thereof, said forming member being free to swing from the cord connection to the hanger and about the connection to the forming member.

2,639,845
SOCK DRIER
Lillian M. Lake, Manhattan Beach, Calif.
Application April 17, 1950, Serial No. 156,361
7 Claims. (Cl. 223—77)



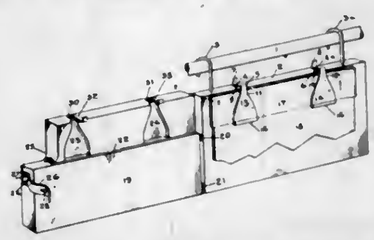
1. In a sock drier, the combination of: a hollow ankle member, a hollow foot member adjustably mounted thereon for sliding movement, the foot member and ankle member being shaped to simulate a human foot, ankle and lower leg, the foot member and ankle member each being provided with a large number of apertures distributed over substantially the entire surface of said members, and means including a releasable positive latch device for adjustably securing the foot member to the ankle member at a plurality of positions spaced in even multiples of the spacing of the apertures, so that apertures in overlapping portions of said members remain in registry.

2,639,846
COAT HANGER WITH INTEGRAL MOTH REPELLENT RECEIVING ENDS
Frank O'Farrell, Long Beach, Calif., assignor to Delfra Products Co., Inc., Long Beach, Calif., a corporation of California
Application May 25, 1950, Serial No. 164,185
2 Claims. (Cl. 223—86)



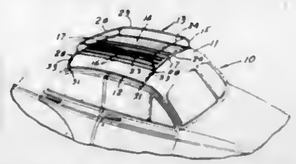
1. A coat hanger comprising a main central body portion, said main body portion including outwardly extending arms thereon each of said arms including a top wall, said wall tapering inwardly towards the center of the hanger, a cup integrally formed with each of said arms and at the outer ends thereof and forming a continuation of said arms, said cups each including a top wall forming a continuation of the first named top wall, a bottom wall, a side wall, an inner transverse wall forming one end, an outer end, and one side of said cup being open, a detachable cover enclosing said open side, and means detachably securing said cover on the cups.

2,639,847
TROUSERS HANGER
Edward L. Blackman, New York, N. Y.
Application January 17, 1951, Serial No. 206,499
2 Claims. (Cl. 223—96)



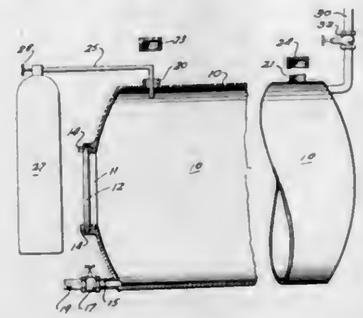
1. In a trouser hanger of the character described, a base support having spring clamps with clamp release projections semirigidly attached to said base support, a complementary support swingably attached by a hinge to said base support having indentations conforming approximately to the shape of said clamps on said base support, forwardly projecting clamp release means on said complementary support adapted to contact said clamp release projections on said spring clamps and release tension therefrom when said complementary support is in proximal contact with said base support, a latch for maintaining said base support and said complementary support in proximity the one with the other.

2,639,848
LUGGAGE CARRIER FOR MOTOR VEHICLES
Robert M. Burmeister, Pasadena, Calif.
Application June 15, 1951, Serial No. 231,850
3 Claims. (Cl. 224—42.1)



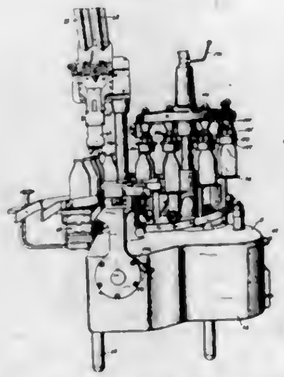
1. A luggage carrier for application to the top of a motor vehicle, said carrier including a rectangular base comprising a plurality of spaced parallel strips, transverse end strips each lying across the ends of and connecting said spaced strips, each of said end strips having a longitudinal depending edge flange having the ends of the adjacent strips abutted thereagainst, an upstanding rectangular frame overlying the base and having downturned corner portions resting upon a transverse strip over one of the parallel strips, a securing element extending upwardly through each of the last mentioned transverse strips and the overlying end strip into and secured to the overlying frame corner portion, and securing means at and extending outwardly from each corner of the base for connection with a side portion of the vehicle top on which the carrier is mounted.

2,639,849
PROCESSING CONTAINER FOR CARBONATED BEVERAGES
George L. N. Meyer, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Company, Cudahy, Wis., a corporation of Wisconsin
Application March 30, 1949, Serial No. 84,332
3 Claims. (Cl. 226—20.2)



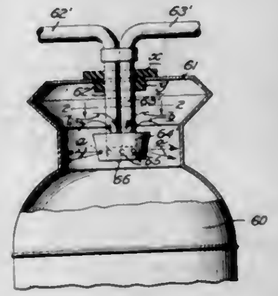
1. The method of conditioning a container with CO_2 gas which comprises the following steps: directing liquefied carbonic gas into an open container to permit the liquid to expand to a gas and freeze subsequent liquid to CO_2 snow, continuing the deposit of a quantity of CO_2 snow on the bottom of the container, allowing the snow to evaporate into CO_2 gas and to force air from the container, and sealing the container after the air has been forced therefrom.

2,639,850
MACHINE FOR DATING AND APPLYING CLOSURES TO BOTTLES
Willy E. Zimmermann, Chicago, Ill., assignor to Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia
Application January 23, 1950, Serial No. 140,086
9 Claims. (Cl. 226—85)



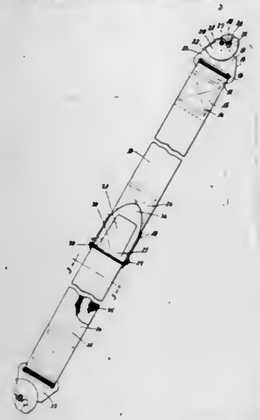
1. A machine for applying and sealing closures to bottles, having in combination; an independent supply of preformed closures, a closure applying station, a closure sealing device, a conveyor for supporting a plurality of bottles, a timing device which embodies a bottle stop and a bottle release lever; a star-wheel, said star-wheel having a single cam means attached thereto, said star-wheel having a double cam means attached thereto, said single cam means controlling said bottle release lever permitting bottles on the conveyor to pass to said star-wheel, said double cam means controlling the resetting of said bottle stop after a bottle has passed by the same, a constantly operated closure extracting device, said extracting device embodying a pair of vacuum cups, said vacuum cups utilizing normally reduced pressure for extracting closures from said independent supply of preformed closures, vacuum valve means to control the number of closures extracted from said supply and for delivering same to a discharge chute, said vacuum valve means controlled by said timing device when it is operated manually by a bottle on the conveyor, said chute embodying a closure embossing device, plungers arranged in said chute to restrict the movement of a pair of closures in said chute for embossing thereof, said plungers regulating the release of said pair of closures to the lower part of said chute to said closure applying station, and said star-wheel directing bottles with closures applied thereto to closure sealing device, substantially as described.

2,639,851
SPREADER FOR MILK CAN FILLING MEANS
George R. Duncan, Washington, Mo., assignor to Zero Manufacturing Company, Washington, Mo.
Application December 19, 1949, Serial No. 133,883
5 Claims. (Cl. 226—116)



1. A connection for milk cans comprising a pair of conduits, one of said conduits having an outlet opening and the other of said conduits having an inlet opening, gasket means supporting and surrounding said conduits in sealing relationship thereto, said gasket means having an outer edge adapted to sealingly engage an opening in a milk can cover, a cap adapted for location in a milk can adjacent to said outlet opening, said cap having means for positioning the same adjacent to the outlet opening in said one conduit, and a plurality of outlet openings in said cap for directing milk from said conduit outlet opening against the inside walls of a milk can, said cap having a closed lower end and an open upper end for the reception of said conduits and to provide a passage for the discharge of the displaced air in said can, said cap having side wall means which completely surrounds and which extends above said cap outlet openings.

2,639,852
SAFETY BELT
Charles E. Sanders, Needham, and John C. MacKinnon, Wellesley, Mass., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 7, 1946, Serial No. 695,460
2 Claims. (Cl. 227—49)



2. A two-strap safety belt, each strap comprising a light-weight elongated flexible web of textile fabric having considerably greater width than thickness, a continuous uninterrupted coating enveloping said web, said coating comprising flexible plasticized polyvinyl chloride, the coating on one face of said web being integrally joined to that on the opposite face thereof through the interstices of said web and around the margins thereof to interlock said coating with said web, and fastening means for the ends of said straps comprising a friction clamp buckle, the webs of said strap being completely embedded in their coatings whereby the coating provides a smooth, tough, uninterrupted surface for cooperation with said buckle.

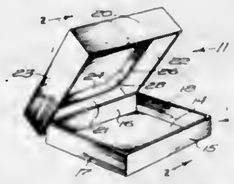
2,639,853
LADDER STRUCTURE
Robert E. Pierce, Seattle, Wash.
Application December 5, 1947, Serial No. 789,962
4 Claims. (Cl. 228—21)

1. In a convertible ladder structure, the combination of a step section including guide means carried by the upper end portions of the sides thereof, said guide means being provided with slots having open outer ends; a convertible stepladder back frame-extension ladder section including complemental hinge means carried by the upper end portions of the sides thereof and adaptable to be removably seated within the closed ends of said slots for establishing a hinged connection between said sections, whereby said convertible section is selectively employed in hinged relation with said step section to function as a stepladder, and co-operatively with the aforesaid guide means in guided longitudinally slidable relation upon said step section to function as an extension ladder; a sectional top step for said step section including a rigid section and a hinged section, said hinged section being adapted to coact with the complemental hinge means of said convertible section when said hinge means is seated in hinged relation within the closed ends of the slots of said step section guide means for effectively locking said hinge means within the closed ends of said slots: means operatively mounted upon one of said sections and releasably engageable with the other of said sections for interlocking the sections in rigid relation when



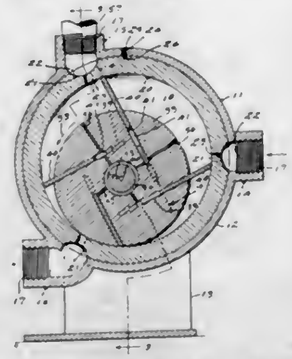
functioning as a stepladder; and means rigidly secured to the lower portion of said convertible section and releasably and selectively engageable with the steps of said step section for interlocking such sections in rigid relation to function as an extension ladder.

2,639,854
BOX
Benjamin L. Thurston, Pawtucket, R. I., assignor to Frost Box Co., Inc., a corporation of Rhode Island
Application November 20, 1951, Serial No. 257,319
1 Claim. (Cl. 229—14)



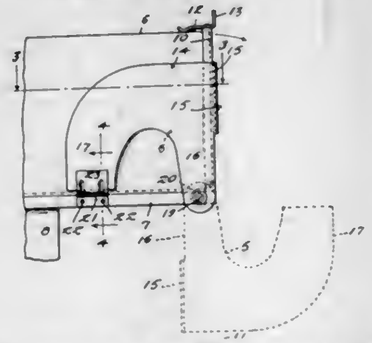
A box comprising a body section having a bottom wall and a cover section having a top wall, each section being rectangular with side and end walls, the side and end walls of the cover section telescoping over the side and end walls of the body section when in closed position, and a liner strip of a depth less than the depth of the side and end walls of the cover section extending along the inner surface of the side and end walls intermediate their ends with one edge engaging the top wall and the other edge abutting the edge of the side and end walls of the body section, said liner strip having a corner bridging portion extending at an angle to the walls for bridging the corners and limiting the telescoping of the sections one over the other, the corner bridging portions of the liner having tabs extending along the top wall and abutting the adjacent side and end walls at the corners, said tabs being fastened to the top wall to hold the liner in position and stiffen the corner portions, one of said corner bridging portions being split and carrying two mating notches for latching the portions together.

2,639,855
VARIABLE VACUUM AND PRESSURE ROTARY PUMP
William T. Daniels, Pittsburgh, Pa.
Application February 6, 1948, Serial No. 6,603
5 Claims. (Cl. 230—47)



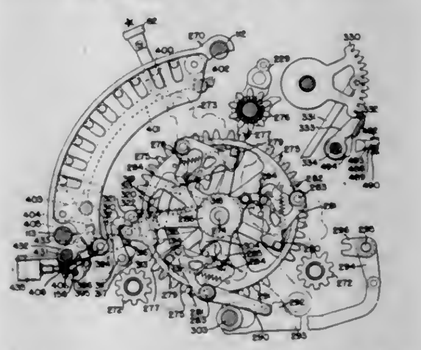
1. A rotary pump comprising a housing having an inlet port and an outlet port disposed in the periphery thereof, a driven rotor rotatably mounted eccentrically within the housing chamber and having a plurality of vanes reciprocally disposed in the body thereof for contact with the end walls and periphery of said housing, said housing including a removable liner forming an interior section of the periphery thereof, said liner being provided with manifold ports communicating with the inlet and outlet ports and with said housing chamber, said manifold ports each including a groove formed in the exterior of said liner and extending transversely thereof and a plurality of spaced ports communicating with said groove and with the housing chamber and formed in said liner in transversely spaced relationship to one another, the length of each groove, transversely of the liner, being substantially greater than the width of the groove, circumferentially of the liner.

2,639,856
RURAL MAILBOX SIGNAL
Seth H. Thomas, Rochester, Ind.
Application March 30, 1951, Serial No. 218,491
4 Claims. (Cl. 232—35)



1. A mailbox signal for use with a rural mailbox having a vertically swingable door pivoted at its lower end, said signal comprising a substantially rigid sheet-like member having angularly disposed sections, means pivotally mounting the signal beneath and adjacent the pivot of the mailbox door for vertical swinging movement between an operative, depending position in which both sections are disposed below the level of the mailbox and spaced therefrom and an inoperative position adjacent the door and a side of the mailbox and in which both sections are disposed above the level of the operative positions of the sections, said sections being relatively wide and each being disposed in substantially a vertical plane when the signal is in an operative position, one section of the signal being disposed at one side of the mailbox and out of contact therewith when in an inoperative position and the other section thereof being disposed in front of the mailbox door, the preponderance of the weight of the signal being disposed on the side of its pivot remote to the section of the signal which is disposed adjacent and in the path of opening movement of the mailbox door whereby the signal is maintained by gravity in an inoperative position.

2,639,857
ACCOUNTING MACHINE
Pascal Spurlino, Alfred G. Kibler, Rudolph J. Moser, and Eugene H. Wolf, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application January 21, 1950, Serial No. 139,848
17 Claims. (Cl. 235—2)



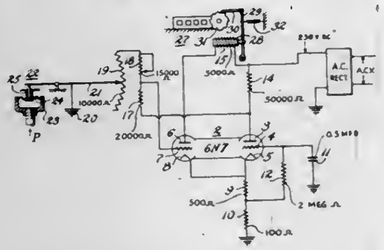
1. In a machine of the class described, the combination of a plurality of differentially adjustable means; coupling means carried by one of said differentially adjustable means to couple the latter to another of said differentially adjustable means for movement in unison therewith; a device normally in position to prevent differential adjustment of still another differentially adjustable means; another device normally in position to cause the coupling means to uncouple said another of said differentially adjustable means from said one of said differentially adjustable means upon initial movement of the latter; means common to both of said devices to retain them in their normal positions; and means to actuate said common means to release both of said devices, to prevent the coupling means from uncoupling said another of said differentially adjustable means from said one of said differentially adjustable means, and to permit differential movement of said still another of said differentially adjustable means.

2,639,858

MULTIVIBRATOR TUBE CIRCUITS

Thomas E. Hayes, Orrville, Ohio, assignor to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 13, 1950, Serial No. 184,578
11 Claims. (Cl. 235—61)



1. A multi-vibrator comprising a pair of grid-controlled circuits each having a plate, grid and cathode, a conductor connecting said cathodes, a relatively high cathode ground resistance connected to said cathode conductor and to ground, an operating voltage input conductor to which the positive side of a source of supply of D. C. voltage is connected when the multi-vibrator is in operation, a relatively high resistance connecting one of said plates to said input conductor, a grid condenser connecting to ground the grid for the plate to which said high resistance is connected, a grid-leak resistance connected to said grid and to said cathode ground resistance at a point between the cathode and ground ends thereof, the other of said plates being provided with a current pulse responsive means of low resistance relative to the resistance in the first mentioned plate circuit and control means for causing intermittent current pulses to flow with a controlled but adjustable frequency in the plate circuit containing the current pulse responsive means, said control means comprising a fixed resistor and a frequency control resistor adapted to be adjusted by means responsive to a variable condition, said fixed and frequency control resistors being connected in series between ground and the plate side of the resistance in the first mentioned plate circuit and an electrical connection from the grid of the plate circuit containing said pulse responsive means to the junction of said series-connected fixed and frequency control resistors, the capacity of said grid condenser and the value of resistance of the frequency control resistor in circuit at any instant being such as to cause the frequency of said pulses in the pulse responsive means to be substantially linearly proportional to the per cent of the frequency control resistor in circuit at any instant.

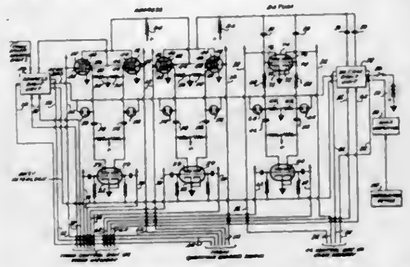
2,639,859

TRANSITORY MEMORY CIRCUITS

Robert Serrell, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 29, 1950, Serial No. 198,086
8 Claims. (Cl. 235—61)

1. A transitory memory system register comprising a first plurality of pairs of glow tubes, means to condition each of said pairs of glow tubes to be representative of a different digit of an address, a second plurality of pairs of glow tubes, means to condition each of said second plurality of pairs of glow tubes to be representative of a different digit of datum, means to compare signals representative of a querying address with the address represented by said first plurality of pairs of glow tubes, means to apply signals representative of a querying address to said signal comparing means, and means to generate signals representative of the datum represented by each of said second plurality of pairs of glow tubes responsive to an address coincidence output from said signal comparing means.

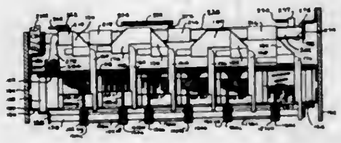


2,639,860

PARTIAL PRODUCT MACHINE

Donald H. Reeves, Beulah, Mich.

Application October 25, 1947, Serial No. 782,139
9 Claims. (Cl. 235—61)



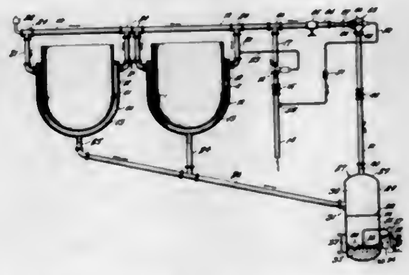
1. In a multiplying machine of the partial product type, a plurality of means for determining the amounts of the various partial products, each of said means consisting of two members, one for the first digit of the partial product and one for the second digit of the partial product, each of said members having one hundred selectable positions arranged in ten rows with ten positions in each row, a set of adjustable keys for recording the amount of the multiplicand, another set of adjustable keys for recording the amount of the multiplier, selecting means including a selector for each pair of members, each selector having a selecting means for each member of the aforesaid pair of members, which selecting means can be so moved as to select any one of the one hunded selectable positions on said member, means controlled by one set of adjustable keys for moving said selecting means longitudinally of said member, means controlled by the other set of adjustable keys for moving said selecting means transversely of said member, means for raising the aforesaid selectors which in turn raise the aforesaid members by various amounts depending upon which one of the one hundred selectable positions has been selected on each member, means for adding simultaneously more than two amounts, said means including stepped horizontally sliding means for each digit to be added, each of which stepped sliding means is connected to one of the aforesaid members, and other non-stepped horizontally sliding means for limiting the amount of movement of the stepped sliding means, each of said stepped sliding means being movable vertically into any one of several positions by the raising of the aforesaid member to which it is connected for the purpose of determining the amount which that stepped sliding means shall cause to be added, a plurality of means, one for each column of digits to be added, for horizontally actuating the sliding means, and means controlled by said actuating means for showing the total of the various amounts which have been added.

2,639,861

STEAM HEATING CIRCULATION SYSTEM

Bronson C. Skinner, Dunedin, Fla., assignor to Clinton Foods Inc., New York, N. Y., a corporation of Delaware

Application January 7, 1948, Serial No. 1,047
13 Claims. (Cl. 237—9)



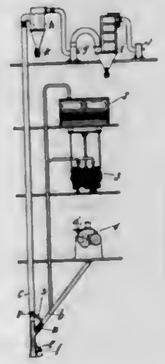
4. A steam heating circulation system comprising, in combination, heat exchange equipment having at least one steam passage extending therethrough, main supply pipe means connected directly to the steam passage for supplying the major amount of steam demand thereto at a relatively low pressure, receiver means for separating condensate and flash steam from each other, said receiver means having an inlet communicating with its interior between the top and bottom thereof, unobstructed return pipe means connecting the steam passage to the inlet of said receiver means freely to conduct at all times condensate from the former to said receiver means, conduit means connecting the top of said receiver means to said main supply pipe means for recirculation of flash steam, a small jet booster having a nozzle in said conduit means, auxiliary supply pipe means connected to said jet nozzle to supply thereto a minor fraction of the steam demand at a pressure appreciably higher than that in said main supply pipe means, valve means connected to said main supply pipe means for limiting pressure therein to a predetermined maximum intermediate said relatively low pressure and said higher pressure, means providing for drainage of condensate from the bottom of said receiver means, automatic valve means controlling said drainage means and limiting maximum collection of condensate in said receiver means to a height appreciably below the inlet, air-venting means having an intake communicating with the interior of said receiver means above but in the near vicinity of the maximum condensate collection height, a thermostatic valve controlling the outlet of said air-venting means, and baffle means pervious to fluid in said receiver means below the inlet but appreciably above the venting intake to define therebetween a quieting zone for gaseous medium.

2,639,862

PNEUMATIC ELEVATOR FOR FLOUR MILL STOCKS

George Watts, Cheadle Heath, Stockport, England, assignor to Henry Simon (Holdings) Limited, Cheadle Heath, Stockport, England, a British company

Application June 16, 1950, Serial No. 168,401
In Great Britain July 8, 1949
18 Claims. (Cl. 241—47)



2. A pneumatic conveying system for handling flour stocks for use in a flour mill comprising a substantially vertically extending elevator conduit, said conduit having upper and lower ends and the lower end being open, conduit means providing a downwardly extending gravitationally influenced inlet for receiving processed stock and air to be conveyed, said conduit means communicating with the elevator conduit above the lower end for delivering processed stock directly to said vertical conduit, air current inducing means communicating with the upper end of said elevating conduit for simultaneously drawing a current of air and processed stock downwardly through the conduit means, and into the said elevator conduit to provide a lifting current to elevate stock vertically upward through said elevator conduit, and throttle means embodied with the lower end of said elevator conduit below the juncture of said inlet therewith to vary the cross-sectional area thereof and thereby the flow of air thereinto.

2,639,863

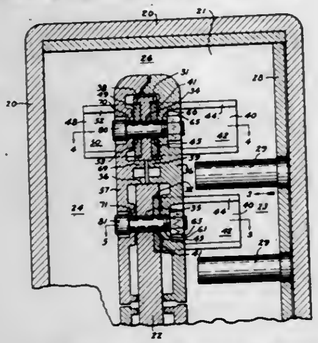
HAMMER AND WEAR-PLATE STRUCTURE FOR ATTRITION PULVERIZERS

Wayne C. Rogers, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts

Application July 21, 1950, Serial No. 175,241
10 Claims. (Cl. 241—191)

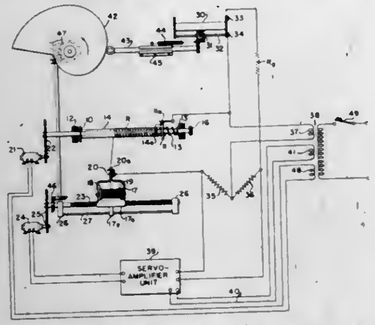
1. Pulverizing apparatus comprising a generally circular disk rotatable about its axis, a series of impact elements of general L-shaped construction each having one leg forming a base in engagement with one side of the disk and another leg projecting from the front portion of the base and located in an approximately radial plane, a protective armor of extremely hard material secured to the front surface of each projecting leg, and a series of wear plates secured to the said side of the disk and clamping the base legs of

the impact elements against the disk, the wear plates having openings therein through which



the projecting legs of the impact elements extend.

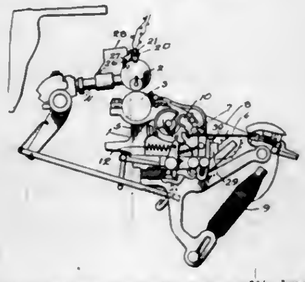
2,639,864
METHOD OF AND APPARATUS FOR WINDING PRECISION RESISTORS
Henry Erwin Hale, Freeport, N. Y., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware
Application December 20, 1943, Serial No. 514,894
24 Claims. (Cl. 242—9)



1. Apparatus for winding a precision resistor having a resistance characteristic accurately predetermined by that of a reference standard comprising, means for winding resistance wire on a card to form a resistor, cam means driven by said winding means and an adjustable contact actuated thereby for continuously varying the resistance value of said standard, an electrical bridge including said resistor and said standard, and means responsive to an unbalance of said bridge for continuously controlling the action of said winding means to modify a unit dimension of said resistor.

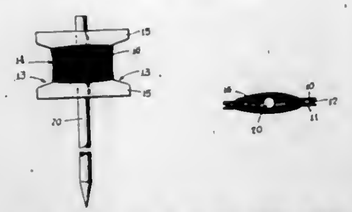
2,639,865
AUTOMATIC ELECTRIC STOP GAUGE FOR WINDING MACHINES
Charles W. Guion, Arlington, Va.
Application May 3, 1950, Serial No. 159,804
2 Claims. (Cl. 242—39)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a winding machine including a winding roll, a pivotally-mounted arm, a spool holder mounted on the free end of the arm for rotative cooperation with the winding roll, and means for moving said arm about its pivot, a detector wire for controlling said movement, electrically-operated means for moving the detector wire, said



last-named means including a split band encircling the arm, a bolt for clamping the band about the arm, a second arm pivoted on the bolt and a mercury switch mounted on said second arm.

2,639,866
MULTIPLE SPOOL AND THREAD PACKAGE THEREON
Peter J. Bochan, Bridgeport, Conn., assignor to Assembled Units, Inc., Bridgeport, Conn., a corporation of Connecticut
Application November 13, 1951, Serial No. 256,020
3 Claims. (Cl. 242—50)

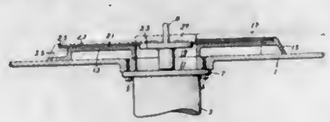


1. A multiple spool for thread having a plurality of longitudinally spaced thread-receiving portions comprising a pair of flat surface members spaced apart by a filler member, said spool being divisible between said thread-receiving portions to provide individual spools, said filler member having a longitudinally extending means for receiving a spreader and said surface members being capable of bowing, upon insertion of said spreader, to form a longitudinally extending spindle-receiving opening whereby said individual spools may be mounted for rotation on a spindle.

2,639,867
TAPE REEL MOUNTING
Harold W. Lindsay, Redwood City, Calif., assignor to Ampex Electric Corporation, San Carlos, Calif., a corporation of California
Application March 21, 1949, Serial No. 82,694
3 Claims. (Cl. 242—55)

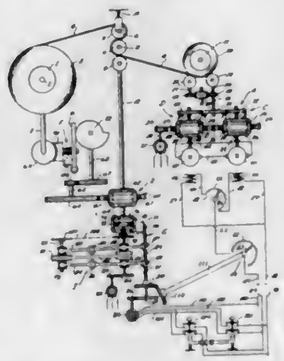
1. In combination with a removable message tape storage reel having a cylindrical hub of a height approximating the width of a resilient tape adapted to be wrapped thereabout and tape guiding means extending outwardly from at least one end of the hub to align a reel- and hub-supported tape so that at least one tape edge is

located substantially in the same plane, a base panel member, a pedestal supported from the base panel member, said pedestal having an outer surface of substantially frusto-conical shape with the cone base faced toward the base panel, said pedestal having a circular recess extending inwardly from the plane of smaller cone diameter for at least a portion of the pedestal height and extending completely through the pedestal to form an aperture therethrough in at least the central portion thereof, a tape storage reel locating element positioned substantially centrally of the pedestal in the area of the said pedestal aperture and extending from the region of the ped-



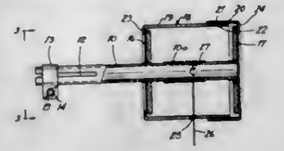
estal base toward its top to a plane located below the top in such position that an adjacently placed tape supporting reel will have the tape guiding means substantially at the plane of the pedestal top, and means operative to drive the tape storage reel locating element and any tape storage reel located thereby so that at times of tape winding and unwinding from the reel the so-carried tape is clear from the base panel member when in a generally taut state and, upon tension reduction, the tape is adapted to contact the generally frusto-conical surface of the pedestal to cause the tape to draw to a position clear of the base panel member with a restoration of tape tension.

2,639,868
STRIP MATERIAL WINDING APPARATUS
Lev A. Trofimov, Willoughby, Ohio
Application November 29, 1951, Serial No. 258,904
16 Claims. (Cl. 242—75)



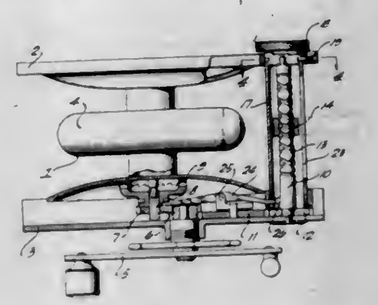
1. A strip material winding apparatus, comprising; a winding drum adapted to be driven by power to wind strip material thereon; a rotary element arranged to be rotated by the strip as it is being wound; brake mechanism braking rotation of the rotary element; mechanism responsive to the linear speed of the strip as it is being wound and controlling the brake mechanism to increase the braking action upon an increase of strip speed and to decrease it upon a decrease of strip speed.

2,639,869
FISHLINE HOLDER
Ira Levine, Chicago, Ill.
Application September 20, 1947, Serial No. 775,238
1 Claim. (Cl. 242—84.1)



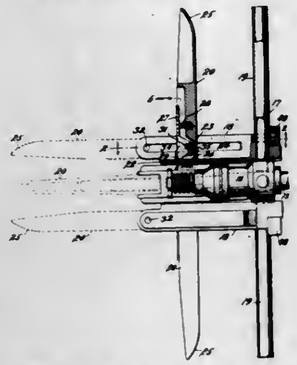
A fishline holder comprising a pair of discs and an axial member upon which the discs are secured in spaced apart relation, said axial member comprising a laterally extending slotted tubular portion into which the tip of a fish pole is adapted to be inserted, means for clamping said slotted portion of the axial member to the pole tip and a rotatable sleeve spanning the outer peripheries of said discs and being rotatable thereon and provided with an aperture through which is adapted to extend the active portion of a fishline wound upon the axial member between the discs.

2,639,870
LINE SPOOLING DEVICE FOR FISHING REELS
Leonard D. Graham, Lynwood, Calif.
Application March 3, 1950, Serial No. 147,506
2 Claims. (Cl. 242—84.4)



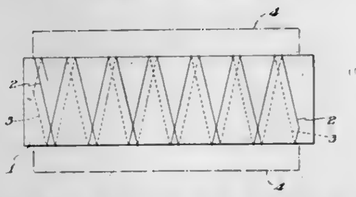
1. In combination with a fishing reel including a spool, a clutch engageable with the spool, an operating handle, and drive means extending from the handle to the clutch of a line spooling device comprising a shaft, side plates in which the shaft is journaled, drive means extending from the first named drive means to the shaft, a finger reciprocally and rotatably mounted on said shaft, a sleeve journaled in the side plates and surrounding said shaft, said sleeve having an elongated slot therein through which said finger extends, said sleeve projecting through one of the side plates, a knob affixed to the projecting end of the sleeve, whereby said sleeve is rotated to move the finger from operative to inoperative position, a clutch arm, one end of said clutch arm being operatively attached to said clutch and the other end of said clutch arm being operatively attached to said sleeve, whereby said clutch is actuated on rotation of said sleeve.

2,639,871
STOCK REEL
Frederick Koch, Sparta, N. J., assignor to C. Todd, Rutherford, N. J., as trustee
Application July 27, 1950, Serial No. 176,172
8 Claims. (Cl. 242—114)



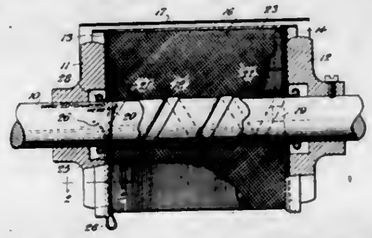
3. A stock reel of the character disclosed comprising a hub, spokes carried by said hub, coil supporting arms radially adjustable on said spokes and coil confining fingers laterally adjustable on said arms for different widths of coil stock and pivotally supported to swing inwardly into aligned relation with said supporting arms, said supporting arms having opposed side walls with grooves therein and said fingers having projecting pins slidable and rotatable in said grooves.

2,639,872
YARN PACKAGE FORMATION
Otha Allen Hitt, Chesterfield County, and Messoud Kiachif, Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 28, 1949, Serial No. 124,247
4 Claims. (Cl. 242—159)



1. A process for preparing a cylindrical yarn package of uniform thickness which comprises winding a yarn on a headless core by passing it through a traverse guide to said core, said guide having a complete stroke of about 5¾ inches and said guide and said core moving at rates of speed so that between 12.50+ and 13.50+ helices of yarn are laid down on said core for every complete stroke of said guide; applying a substantially constant tension on the said yarn winding on said package, the tension being a value between 0.17 and 0.38 gram per denier; accelerating the traverse guide at the reversals by about 25% and continuously displacing the movement of the said guide in small increments for a total displacement of about from 3/32 inch to 3/64 inch completing and reversing each displacement cycle in about 14.2 strokes of said guide.

2,639,873
WIRE PACKAGE
John H. Smith, Wauwatosa, Wis., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Original application February 24, 1945, Serial No. 579,654, now Patent No. 2,457,094, dated December 21, 1948. Divided and this application August 5, 1947, Serial No. 766,215
8 Claims. (Cl. 242—159)



1. A package for an open-center coil from which wire is to be payed out from the center, said package comprising a helically wound lining for the open-center coil, said lining having a tab at its inner end and having its outer end connected to the lead end of the coil of wire, discs at opposite ends of the coil, at least one of which has a central opening providing access to said tab, and a shell around the outside of the coil connecting the end discs.

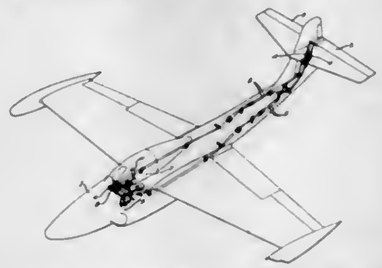
2,639,874
HELICOPTER WINGS AND OTHER AIRCRAFT STRUCTURES WITH BOUNDARY LAYER CONTROL
Edward A. Stalker, Bay City, Mich.
Application September 10, 1948, Serial No. 48,616
10 Claims. (Cl. 244—42)



1. In combination, a fore body and a flap supported in adjustable relation with said flap substantially in line chordwise with said fore body to form a wing adapted to be bathed by a flow of fluid, said flap having a chordwise extending upper surface contour which is concave along its forward portion and convex along its aft portion, said concave portion being shorter than said convex portion and being spaced outward from the aft surface of said fore body to form an induction slot and to present a leading edge to said flow, said concave-convex surface cooperating with said slot to provide a continuously favorable pressure gradient thereacross, and means to induce an inward flow of air through said slot.

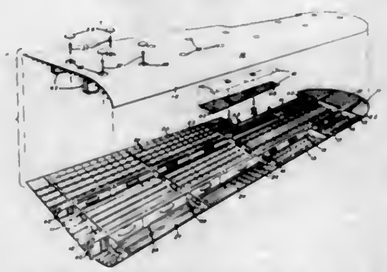
2,639,875
AIRCRAFT CONTROL ELEMENT FORCE PRODUCER
Alvin R. Vogel, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application January 30, 1950, Serial No. 141,175
25 Claims. (Cl. 244—83)

1. In an airplane having a surface control element to be operatively connected to power control means connected to move a control surface under power, a control element force producer comprising a rotatable control element attachment member, a power control means attachment member connected to rotate with said control element attachment member, a crank arm connected to rotate with said power control means attachment, a link pivotally connected to said arm, a link support rotatable on an axis parallel to the rotational axis of said arm, said link being smoothly movable in said link support along lines perpendicular to said link support axis so that said link can be translated through said support and simultaneously pivoted about said link support axis as said arm is rotated, a force transmitting member pivotally connected to said link on the opposite side of said link support from



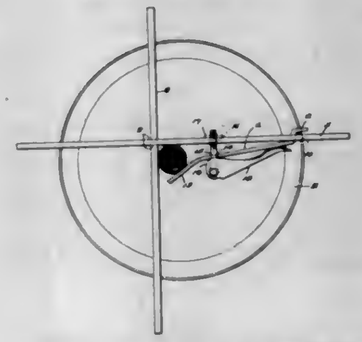
said crank arm, a force member support rotatable about a third axis parallel to said link support axis and lying in the plane formed by the aforementioned two axes, beyond said link support axis from said arm axis, said force transmitting member being smoothly movable in said force member support along lines perpendicular to said third axis so that said force transmitting member can be translated through said force member support and simultaneously pivoted about said third axis as said arm is rotated, and means for applying a tensile force in said force transmitting member directly proportional to a function of the air speed of said airplane, said force producer having one dead center position where the center lines of said crank arm, said link, and said force transmitting member are co-planar.

2,639,876
MOLDED STRUCTURE
Charles Clayton Misfeldt, Phoenix, Ariz.
Application September 3, 1947, Serial No. 771,846
7 Claims. (Cl. 244—124)



1. An airfoil structure comprising a pair of complementary members, each of said members being a homogeneous structure of light metal comprising a plate forming the lifting surface of said airfoil, and a plurality of intersecting reinforcing elements of consecutively decreasing dimension subdividing said plate internally of the airfoil into areas approximately proportional to the thickness thereof.

2,639,877
CHRISTMAS TREE STAND
Delmer C. Fox, Darby, Mont.
Application August 4, 1950, Serial No. 177,717
1 Claim. (Cl. 248—44)

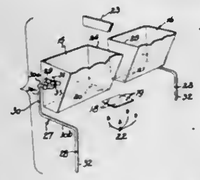


A tree stand for supporting a tree over a water receptacle, comprising a pair of wide sections arranged with their side faces disposed vertically, said sections having their lower edges cut away, providing a clearance for a receptacle positioned thereunder, said sections crossing each other and being disposed at right angles with respect to each other, said sections having slots extending inwardly from one of the longitudinal edges thereof, said sections being interlocked through the slots, holding said stand in an upright position, a clamp embodying a horizontally disposed lever pivotally mounted on one of the sections, said lever having a cam surface at one end thereof, an arm comprising a length of metal forming a part of the clamp, said arm having an opening, a bolt connected with the section supporting the arm, said bolt extending through the opening of said arm and to which said lever is pivotally connected, one end of said arm being offset and resting in an opening of one of the sections, the other end of said arm engaging a tree trunk positioned between the adjacent sections in contact with the sections, and the cam of said lever being movable over said arm moving the arm to clamp said tree to the holder.

2,639,878
RECEPTACLE SUPPORT
Martin Pierce, Aurora, Ill.
Application August 29, 1949, Serial No. 112,950
1 Claim. (Cl. 248—151)

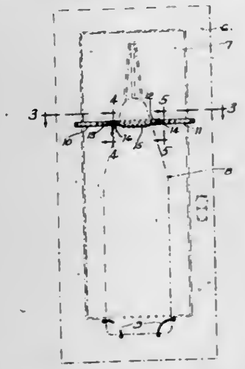
Supporting structure for opposite walls of a vessel, each wall supporting structure comprising an anchoring clip with right angularly extending legs secured to a wall of said vessel, one of said legs having an intermediate U-shaped portion and together with said connected wall of the vessel forming a first socket, the other of said legs having an offset end portion and together with said connected wall forming a second socket, said legs being disposed on said vessel

wall with the one leg extending generally horizontal and the other leg extending generally vertically downward, and a rod-like supporting leg member having oppositely extending ends and an intermediate portion bent to form a right angularly extending U-shaped offset, one of said leg member ends being sharpened to form a ground piercing stake, said intermediate U-shaped bent portion of the supporting leg pro-



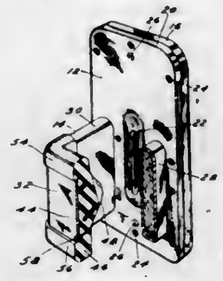
viding spaced horizontal upper and lower legs, the lower of said legs being arranged as a supporting base for the supporting leg member, the upper of said legs being thicker than the space between said vessel wall and the offset end of the anchoring clip defining the second socket whereby said upper leg snaps into and locks within the second socket as the other end of the supporting leg member is inserted home into the first socket.

2,639,879
IRONING BOARD HOLDER
William G. Michel, Three Rivers, Mich.
Application April 10, 1950, Serial No. 155,007
2 Claims. (Cl. 248—309)



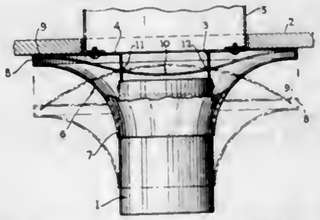
1. A device of the class described comprising two similar metal channel pieces with holes punched therein at regular intervals along their entire length, a slightly larger metal channel with a plurality of holes punched near each end that can slide over the aforesaid two similar channel pieces, means for fastening said larger channel to one of said smaller channels through concentric holes comprising a bolt secured in place by an hexagonal nut on the outside of said channels and a square nut on the inside of the one smaller channel, means for fastening said larger channel to the other smaller channel through concentric holes similarly as aforesaid, both said fastening means holding a collapsible metal means of adjustable length for encircling one end of an ironing board.

2,639,880
BARBER CLIPPER HOLDER
Fred P. Belloff and Thomas R. Bevacqua, Chicago, Ill.
Application March 31, 1950, Serial No. 153,214
3 Claims. (Cl. 248—314)



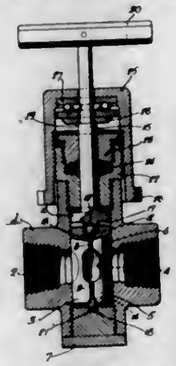
1. In a device for removably holding a hair clipper with its cutter head directed downwardly, a vertical back member adapted to be secured to a support, an enclosure comprising spaced side walls secured at their rear edges to the back member, a front wall connecting the forward edges of the side walls, said enclosure being open at its top and bottom, a solid rubber block secured to the inner face of the front wall of the enclosure, and a central enlargement formed on the inner face of the rubber block upon which a portion of the hair clipper may rest when positioned in the enclosure and be retained in a slightly wedged position in the device, said central enlargement being provided with a vertical slot to accommodate protruding elements on the portion of the hair clipper that engages with said central enlargement.

2,639,881
ELECTRICAL FIXTURE
Kurt Versen, Tenafly, N. J.
Application August 25, 1950, Serial No. 181,381
3 Claims. (Cl. 248—345)



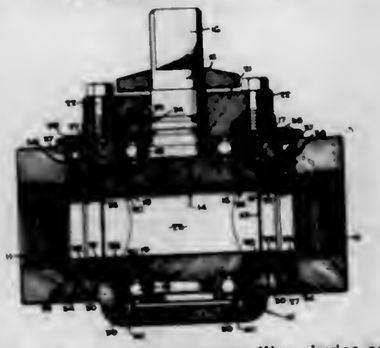
1. An electrical fixture comprising in combination a tubular ceiling supported member, a canopy having an opening therethrough and through which the canopy is slidably mounted on said tubular member to upper and lower positions, a deformable spring means engaging said canopy at diametrically opposed points, means detachably securing said spring means to said canopy at said points, pivot means for the spring means carried by the tubular member between said points and positioned below said points when the canopy is at said upper position, said spring means having a total length greater than the distance between said points and being deformed when in engagement with said points and when at an intermediate position of the canopy biasing the canopy to either upper or lower positions, said upper position releasably holding the canopy against the said ceiling.

2,639,882
VALVE
Charles W. Conrad, Philadelphia, Pa.
Application July 1, 1948, Serial No. 36,402
5 Claims. (Cl. 251—102)



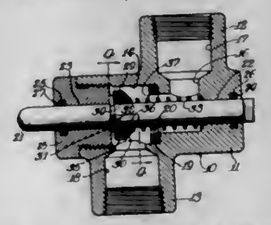
5. In a valve, a rotatable and expansible valve member having a passage therethrough and also having slots dividing said member into two expansible halves, said valve member also having a pair of axially-spaced recesses located on the axis of rotation of said member and facing away from each other, a pair of spherical elements disposed respectively in said recesses, a pair of valve parts having recesses in confronting relation respectively to the recesses of said valve member and cooperating with the latter recesses to form pockets to retain said spherical elements, one of said parts being movable to effect expansion of said valve member through the medium of said spherical elements and the associated recesses, the spherical elements and recesses also serving to insure alignment and to minimize friction, and means for rotating said valve member.

2,639,883
FLOW REGULATOR
Louis J. Smith, Los Angeles, Calif.
Application September 30, 1948, Serial No. 51,949
6 Claims. (Cl. 251—113)



6. A flow regulating or controlling device comprising a body having a passage for flow therethrough, a rotary plug rotatable in the body adapted upon rotation to regulate flow through the passage, at least one sealing ring in the passage having one side adapted to be moved into engagement with the side of the plug to seal thereagainst, a packing ring having one side against the other side of the sealing ring carrying packing, the packing being engageable with the sealing ring and with the interior of the body, and means operable from the exterior of the body for forcing the packing ring and sealing ring toward the plug.

2,639,884
FLUID VALVE
Wallace F. Mitchell, Chicago, Ill., assignor to M B G Corporation, Chicago, Ill., a corporation of Illinois
Substituted for abandoned application Serial No. 23,709, April 28, 1948. This application May 1, 1951, Serial No. 223,886
3 Claims. (Cl. 251—137)

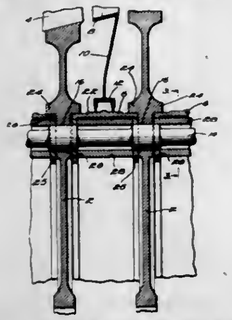


1. A fluid valve comprising a valve housing having a fluid passage therethrough, a circular valve seat in said housing and surrounding said passage, a valve stem slidably mounted in said housing and extending through said passage, a valve head on said stem with the stem extending through the valve head for movement of the valve head thereby into and out of seated position against said seat, said valve head including a ring having a tapered surface engageable with said valve seat and an internal annular recess and a resilient sealing element in the recess surrounding the valve stem in sealing engagement therewith, the inner surface of said ring being of greater diameter than the valve stem for permitting rocking movement of the ring on the valve stem, rigid stop means fixed on said valve stem on the other side of the valve head than the valve seat, and yieldable means urging the valve stem and valve head to open position.

2,639,885
ROTOR CONSTRUCTION FOR COMPRESSORS AND TURBINES
Walter A. Ledwith, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 23, 1950, Serial No. 151,354
8 Claims. (Cl. 253—39)

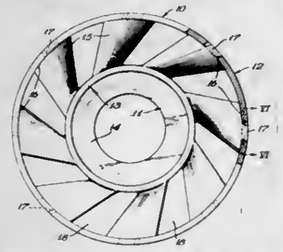
1. In a rotor construction, a plurality of discs each having a row of blades on its periphery, a series of through bolts extending through said discs and arranged in a ring surrounding and spaced from the axis of the discs, and a sleeve extending between adjacent discs and surrounding the ring of bolts, said sleeve having inwardly extending flanges at opposite ends engaging with adjacent discs, said flanges having aligned openings therein to receive the bolts, and tubes around said bolts and fitting tightly in certain of the

openings of the sleeve for spacing the discs apart, the ends of said tubes engaging the side surfaces



of the discs, the sleeve functioning to support the tubes in position during assembly of the rotor.

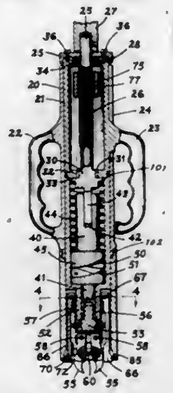
2,639,886
SHROUDED WHEEL
Arthur Townhill, East Cleveland, Ohio, and Wallace Philip Holcombe, Ann Arbor, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 17, 1950, Serial No. 196,226
1 Claim. (Cl. 253—39)



A rim shrouded vaned fluid propelling wheel comprising a one-piece integrally constructed unit, said unit having an upstanding annular hub portion, a plurality of circumferentially spaced vanes radiating outwardly from the outer periphery of said hub portion, each of said vanes having opposed faces defining an air foil section for propelling a fluid between said blades, each of said blades having an arcuate outer peripheral edge between said opposed faces of the blade concentric with said upstanding hub portion, a lug-like projection extending outwardly from each of said outer peripheral edges and having the general contour of the air foil section and an inwardly directed annular flange on the inner periphery of said upstanding hub, and a one-piece rim surrounding said vanes in tight embracing contact with said arcuate outer peripheral edges of the vanes and receiving all of said projections in snug embedded relation therein, said rim being in tension around said unit to exert an inwardly directed force rigidifying the assembly.

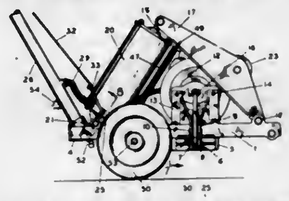
2,639,887
NAIL PULLING DEVICE
Walter N. Henry, Dayton, Ohio
Application February 16, 1951, Serial No. 211,220
11 Claims. (Cl. 254—19)

1. A power-operated nail pulling device comprising a casing, an anvil movable in said casing, nail-gripping jaws carried by said anvil and projecting from said casing, a drive shaft rotatable in said casing, means for connecting said drive shaft to a power source for rotation thereby, a driving member for said anvil mounted for reciprocation in said casing in response to rotation of said drive shaft for driving said anvil in a direction to force said jaws into the surface surrounding a nail to be pulled, a withdrawing



member carried by said casing and extending adjacent said jaws in initially spaced relation with said surface, means for causing the closing of said jaws to grip said nail, and means for selectively connecting said drive shaft to said withdrawing member for causing relative movement thereof toward said surface and corresponding movement of said jaws in gripping relation with said nail away from said surface.

2,639,888
RAILROAD CAR MOVING JACK
Jarvis Kilness, Bridal Veil, Oreg.
Application March 3, 1950, Serial No. 147,453
4 Claims. (Cl. 254—35)



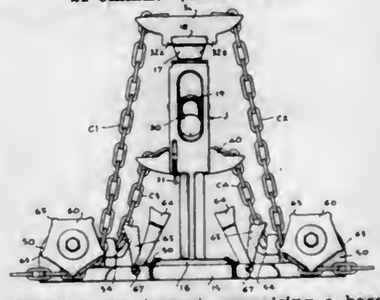
1. A railroad car moving device comprising a base for mounting on a rail, the base having a fixed rail clamping member to engage one side of a rail, a cooperating rail clamping member pivoted to the base to engage the opposite side of the rail, a fluid pressure unit mounted on the base and operatively connected to the pivoted member, a lever pivoted to the base, fluid pressure means including a cylinder pivoted at one end to the base, a piston operating in the cylinder and pivoted to the lever, spring means connected with said base and biasing said piston and lever to retracted position, and means including a control valve mounted in the pivoted end of the cylinder and connected to the cylinder and unit to supply fluid pressure simultaneously to the cylinder and unit, said control valve including exhaust means opening through the end of the cylinder.

2,639,889
FENCE STRETCHER
Arthur Thorsbakken, Alden, Iowa
Application August 21, 1950, Serial No. 180,548
3 Claims. (Cl. 254—83)



1. In a fence stretcher, one clamping bar for disposition at one side of the fencing, U-shaped yokes the side arms of which straddle and are rigidly secured to said bar, the arm-connecting portions of said yokes being outwardly spaced from the fence-engaging side of said one bar, and a second clamping bar for disposition at the other side of the fencing, said second bar extending slidably between said side arms of each of said yokes and being inwardly spaced from said arm-connecting portions of said yokes, and wedges rigidly secured to said second bar, said wedges extending longitudinally of the bar and being slidably received between said side arms and contacting slidably with the inner sides of said arm-connecting portions, said wedges and said arm connecting portions having uniform inclination in the same direction, whereby relative endwise sliding of said bars in one direction will cause movement of said bars toward each other and vice versa.

2,639,890
PULLING IMPLEMENT
Leo Haubert, Tulsa, Okla.
Application June 2, 1949, Serial No. 96,691
21 Claims. (Cl. 254—133)



1. A pulling implement comprising a base, a flexible pulling element, means for guiding the flexible pulling element, said means being immovably secured upon the base and acting to hold down the flexible pulling element so that the line of pull thereof may be diverted from a substantially horizontal direction to a direction nearly vertical, means on the base to temporarily secure a lift jack thereto, and means adapted to be removably secured to that part of the lift jack which is moved upwardly when the lift jack is operated, the last named means being constructed and arranged to engage and temporarily hold the flexible pulling element, so that the power of the lift jack is transferred to the flexible pulling element.

2,639,891
SHEAVE BLOCK WITH ADJUSTABLE EYE
Robert Y Barkley, Weems, Va.
Application September 11, 1950, Serial No. 184,317
7 Claims. (Cl. 254—195)

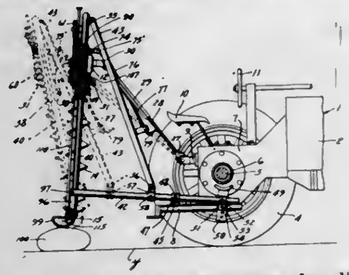


7. Sheave block comprising in combination, a loop shaped strap having opposed relatively narrowly spaced flat end portions in parallel planes, and a relatively wide bight portion rounded transversely on its inner side throughout an arc extending to the opposite sides of said bight portion, a sheave rotatably mounted between said end portions, side plates interposed between said sheave and said end portions extending contiguous to said strap to the ends of the rounded arc of said bight portion and having lugs at their ends embracing said strap forming stops, a tethering eye slidable on the bight portion of said strap between said stops, said eye having its side faces formed with transverse serrations, complementary adjustment plates, each of said plates being formed with a centering orifice and each having a segmental portion formed with arcuate transversely serrated grooves adapted to selectively and clampably engage various arcuate portions of the respective faces of the tethering eye, and screw means connecting said plates through said orifices whereby said segmental portions of said adjustment plates can be angularly adjusted to vary the limits of travel of said loop shaped strap with respect to said eye.

2,639,892
EARTH-BORING MACHINE
Glen H. Jones, Minneapolis, Minn.
Application June 5, 1946, Serial No. 674,514
24 Claims. (Cl. 255—19)

1. In an earth boring machine, a supporting structure, a unitary boring head comprising a downwardly extending auger and power operated means for rotating the auger, means mounting and guiding the unitary boring head on the supporting structure for upward and downward movements on the supporting structure axially of the auger, normally inoperative power operated boring head retracting mechanism operatively connected with the boring head and supporting structure, said boring head retracting mechanism comprising means connectible with said power operated means for operating said

retracting mechanism and disconnectible from said power operated means to render said retracting mechanism inoperative, means on said supporting structure engageable with the retracting mechanism when the boring head reaches its lowered position to operatively connect said retracting mechanism with the power operated means for operating the retracting mechanism to move the boring head to its retracted position,

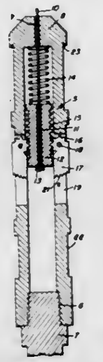


means on the supporting structure for disconnecting the retracting mechanism from the power operated means when the boring head reaches its retracted position and manually releasable latch mechanism comprising cooperating latch elements on the supporting structure and boring head automatically engageable when the boring head reaches its retracted position for retaining the boring head in its retracted position independent of the boring head mechanism.

2,639,893

SAFETY ROPE SOCKET FOR WELL TUBES

Charles R. Pigott, McComb, Miss.
Application April 23, 1952, Serial No. 283,814
3 Claims. (Cl. 255—26)

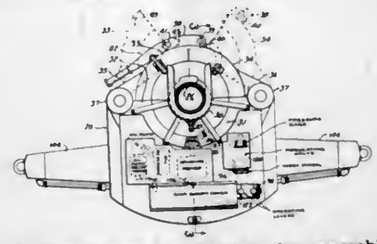


2. A safety rope socket for wells comprising a tubular body adapted for attaching a well tool to its lower end and adapted for slidably receiving a rope in its upper end, a connector slidable in its body and attached to the lower end of the rope, a coil spring in the body above the connector and supporting the load carried by the socket, said spring reacting to move the connector downwardly in the body when the rope breaks, said body having a plurality of vertical slots, locking dogs pivoted in the slots for outward swinging movement into locking engagement with a well tubing, and co-acting means carried by the connector and by the dogs for actuating the dogs in a locking movement upon a downward movement of the connector relative to the socket.

2,639,894

PIPE AND CASING TONGS

Fred E. Smith, Findlay, Ohio
Application November 17, 1951, Serial No. 256,940
12 Claims. (Cl. 255—35)

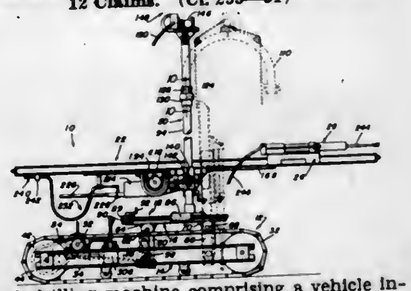


1. A power tongs mechanism for assembling and disassembling lengths of pipe comprising, in combination, clamping means for holding a standing length of pipe having a joint element, a rotatable wrench for grasping and rotating an upper length of pipe having a mating joint element, means comprising an openable clamp for securing such upper pipe in said wrench, first power means for rotating said wrench at high speed, and second power driven means for rotating said wrench with high torque, said wrench having a peripheral gear, said second power driven means comprising a reciprocal drive element and a pair of toothed power transfer means driven thereby and alternatively engageable with said peripheral gear.

2,639,895

SELF-PROPELLED DRILLING MACHINE

Richard L. Gallo, Maytown, Pa., assignor of one-half to Charles Bitner, Milton Grove, Pa.
Application March 23, 1951, Serial No. 217,140
12 Claims. (Cl. 255—51)

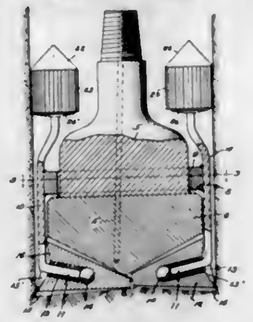


1. A drilling machine comprising a vehicle including a frame and a boom carriage carried thereby, means for elevating the boom carriage relative to the frame, a turntable rotatably mounted on the boom carriage, an upstanding mast supported on the turntable, boom mounting means movable vertically on the mast and means for elevating and lowering such mounting means, an elongated boom pivotally carried by said mounting means for vertical swinging movement, a drill carriage movably mounted on the boom, and means for advancing the drill carriage and said turntable having registrable vertical openings therethrough permitting vertical drilling along a line closely spaced parallel to the mast.

2,639,896

ROTARY ROCK DRILLING BIT

Daniel H. Francis, Pueblo, Colo.
Application February 14, 1950, Serial No. 144,170
2 Claims. (Cl. 255—71)

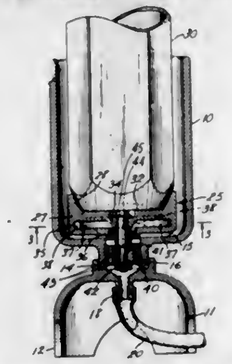


1. In a well drilling bit, a drill shank, a beveled power gear formed on one end of the drill shank, said drill shank having a reduced portion defining an annular shoulder, a floating annular bearing ring mounted on the drill shank spaced above the shoulder, said floating ring being movable longitudinally of the drill shank, vertical arms secured to said annular bearing ring at points intermediate the ends of the arms, one of the respective ends of each of said arms being extended inwardly over said beveled power gear in spaced relation therewith, providing bearings, cone shaped cutting members having teeth formed longitudinally of the outer surface thereof, mounted on said inwardly extended ends in mesh with the beveled power gear, whereby said cutting members are rotated as the power gear is rotated, and cylindrical cutting members having vertical teeth, mounted on the opposite ends of said arms for contact with the wall of the opening drilled.

2,639,897

VESSEL WITH TURBINE FOR ROTATING CONTAINER WHILE HEATING OR COOLING

John B. Prather, Yonkers, N. Y.
Application November 15, 1949, Serial No. 127,319
11 Claims. (Cl. 257—74)

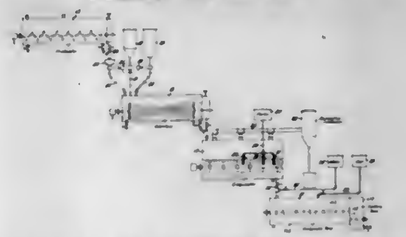


1. Apparatus for transferring heat between a container and a water bath, said apparatus including a vessel adapted to hold water, a rotary element supported by a thrust bearing at the bottom of the vessel and adapted to support the container in the vessel, the rotary element being of limited extent that leaves the container in contact with the water in said vessel, and a radial load bearing located at the lower end of the vessel and on which the rotary element turns and is slidable upwardly, said vessel having a water inlet located under the rotary element and in a position to direct the entering stream of water against the underside of the rotary element to urge the rotary element upwardly and thus reduce the load and friction on said thrust bearing, the rotary element having reaction surfaces exposed to the water flowing through said inlet and directed to discharge the water outwardly in the vessel and toward the side of the vessel.

2,639,898

APPARATUS AND METHOD FOR MIXING FOOD PRODUCTS

Gustave T. Reich, Philadelphia, Pa.
Application January 14, 1948, Serial No. 2,207
8 Claims. (Cl. 257—83)



1. Apparatus for processing fluent foods comprising a tank, and a rotatable agitator in said tank, said agitator comprising a horizontal shaft, a plurality of radially extending blades, means fixedly mounting said blades on said shaft and radially spaced therefrom, said blades extending for a substantial distance longitudinally of said shaft, being spaced circumferentially of said shaft and having warped surfaces providing longitudinally extending grooves.

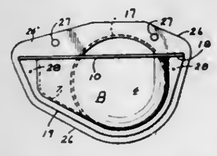
2,639,899

AUTOMOBILE RADIATOR

Fred M. Young, Racine, Wis., assignor to Young Radiator Company, Racine, Wis., a company of Wisconsin
Application June 18, 1948, Serial No. 33,875
1 Claim. (Cl. 257—129)

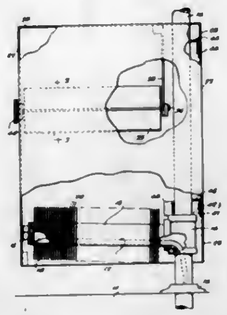
In an automobile radiator: a bottom header tank including opposite end walls and meeting bottom and rear walls disposed at substantially right angles to one another and joining the end walls, said tank also having a tube plate providing a top wall therefor and in which the lower ends of the radiator tubes are mounted in rows extending lengthwise of the tank with the endmost radiator tubes close to its end walls, said tank having a hole extending across the junction of its bottom and rear walls at one end of the tank with part of the hole in the bottom wall and the remainder thereof in the rear wall, the part of the hole in the bottom wall being elongated in the direction of the junction between the bottom and rear tank walls and extending from a point substantially in line with the radiator tubes nearest one end wall of the tank a distance toward the opposite end wall of the tank several

times greater than said part of the hole extends forwardly from the rear tank wall, the remaining part of the hole which is in the rear wall of the tank having one end thereof meeting the end of the other elongated part of the hole nearest the adjacent end wall of the tank; a stamped metal radiator hose fitting comprising two complementary sheet metal stampings permanently joined together, one of said stampings consisting of a cylindrical hose receiving tube and an integral outwardly directed flat flange encircling one extremity thereof, said flange having a lateral extension projecting a substantial distance beyond one side of the tube, the other stamping overlying the major portion of the flanged end of the tube and having end and side walls cooperating with the flanged end of the tube to provide a chamber extending across the flanged end of the tube with a portion of said chamber defined partially by said flange extension disposed a substantial distance laterally beyond the adjacent side of the tube, said side wall being secured to the tube flange in edgewise abutting relationship and having an arcuate portion forming substantially a continuation of the tube wall at the side thereof remote from the lateral extension of the tube flange and continuing tangentially to substantially the extremity of said extension, the end wall merging with the side wall and overlying all but a small portion of the flanged end of the tube which lies to one side of a chordal plane of the tube and which plane passes through the extremity of the lateral extension on the tube flange, and an outwardly directed flat flange integrally joined to the end and side walls of said other stamping and lying in said chordal plane, the portions of said flange on the end wall abutting the tube flange and said two flanges being substantially perpendicular to one another; and means securing the fitting to the angularly disposed bottom and rear walls of the tank over the hole therein with the portion of the tube flange not covered by said other stamping lying flat against the portion of the rear wall bounding the part of the hole therein and the other flange lying flat against the portion of the bottom wall bounding the portion of the hole therein and with that portion of the end wall of said other stamping and the side of the tube of which it is substantially a continuation at the end of the hole nearest the adjacent end of the tank so that one side of the hose receiving tube is close to said end of the tank while the area of connection between the fitting and the tank extends a substantial distance beyond the opposite side of the tube towards the other end of the tank.

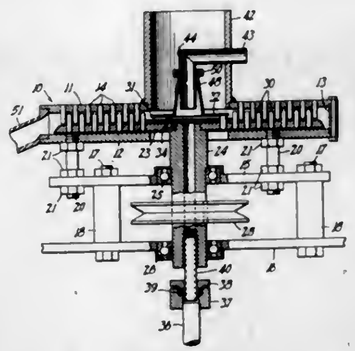


2,639,900
SIMPLIFIED SPACE HEATING RADIATOR MOUNTED ON PIPE
Henry G. Schaefer, Yonkers, N. Y.
Application December 11, 1948, Serial No. 64,726
4 Claims. (Cl. 257—136)

2. A heating system casing for use on a continuous vertical riser that has a shoulder at a fixed position along the length of the riser, said casing having a portion that encloses a predetermined length of the riser, a support attached to opposite sides of the casing at a distance above the lower end of the casing and extending across the casing in position to rest on the top face of the shoulder on one side of the riser to support the casing from said shoulder, and bracket means extending inwardly from a side of the casing in position to contact with the riser on the side opposite from the support to prevent transverse movement of the casing and support on the shoulder away from the riser.

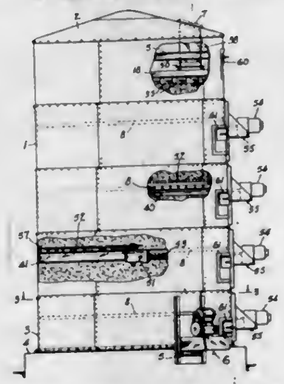


2,639,901
PIN MIXER
Robert R. Teale, Snyder, N. Y., assignor to National Gypsum Company, Buffalo, N. Y.
Application November 20, 1951, Serial No. 257,259
9 Claims. (Cl. 259—8)



1. In a pin mixer, a casing forming an annular mixing chamber, a plurality of pins extending downwardly from an upper radial wall thereof, a discoidal rotor in said chamber having a generally vertical axis, a plurality of pins extending upwardly from said rotor and projecting between the downwardly extending pins, a central feed conduit entering said chamber through said upper radial wall, a drive shaft extending downwardly from said rotor and emerging from said mixing chamber, an axial passage in said drive shaft emerging in said mixing chamber at the upper surface of said rotor, and a horizontal disk concentric with said vertical axis and fixed to and spaced above said rotor, whereby materials feeding through said conduit and through said passage move radially outwardly uniformly in all directions and commingle after they pass the periphery of said disk.

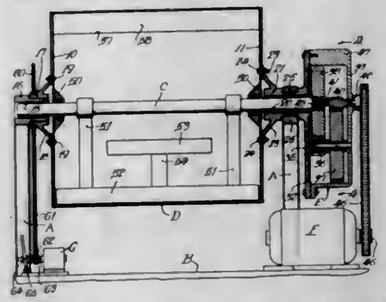
2,639,902
DIGESTER TOWER
Walter A. Kuebler, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 7, 1950, Serial No. 154,474
14 Claims. (Cl. 259—44)



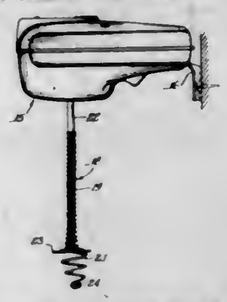
1. A digester tower for the production of organic fertilizer from waste organic material comprising an upstanding cylindrical housing, grid members disposed at vertically spaced intervals within said housing to provide within the latter a series of compartments for the treatment of the material, rotatable means disposed within the uppermost compartment to cause the waste material therein to be deposited upon the uppermost grid to an even depth, rotatable means disposed within each compartment near the bottom thereof for transferring the material therein successively to the next lower compartment, means extending across said housing at the level of each grid for centrally and substantially independently supporting each corresponding last named rotatable means, means to drive each said rotatable means separately, and mechanical means disposed within the lowermost compartment of the tower for removing the treated material therefrom.

2,639,903
TORQUE CONVERTER FOR MIXING DRUMS
Richard J. Kacena, Chicago, Ill.
Application December 21, 1951, Serial No. 262,860
4 Claims. (Cl. 259—85)

1. A torque converter mechanism of the kind described in which is combined a cylindrical drum having a horizontal axis and provided in one wall thereof with an opening through which loose material may pass into and out of the drum, an axial mounting at one end of the drum for rotatable support thereof, a collar fixedly secured to the opposite drum end, axially thereof, and extended outwardly therefrom, a shaft extending axially through the drum and through the collar for rotatable support thereof, a bearing wherein the collar is rotatably supported, a housing fixedly secured to the outer end of the collar, a transmission within the housing comprising a power-input shaft coaxial with the drum shaft, an idler shaft mounted in said housing for bodily movement therewith and having its axis eccentrically of the drum shaft axis, intermeshing gears and pinions carried by the input and idler shafts and by the drum shaft to establish a train of driving connections therebetween, arms fixedly carried by the drum shaft and extending laterally therefrom, and a blade supported by the arms and disposed lengthwise of the drum relatively close to the inner surface of its curved wall, the arrangement being such that the frictional torque on the drum, occasioned by resistance of the loose material therewithin to movement of the blade therethrough, will be transmitted back to the housing in an amount approximately equal to that transmitted to the housing by the idler shaft, but in the opposite direction, thereby to produce substantially a condition of equilibrium permitting rotation of the drum in either direction through 360° or more with a minimum of effort.



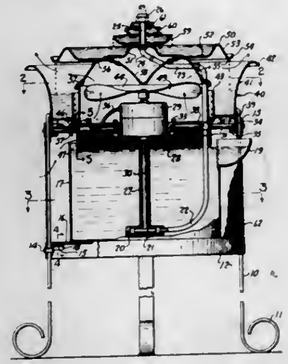
2,639,904
MIXER
Archie J. McMaster, Deerfield, William H. Kitto, Evanston, and Kurt Burian, Chicago, Ill., assignors to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application December 13, 1949, Serial No. 132,752
30 Claims. (Cl. 259—135)



1. An electric mixer comprising a mixer body including a motor and motor shaft, an agitator having a resilient shaft attached to the said motor shaft, means on the agitator for unbalancing the same and thereby causing it to gyrate and form a standing wave, means for supporting said mixer, and means operatively associated

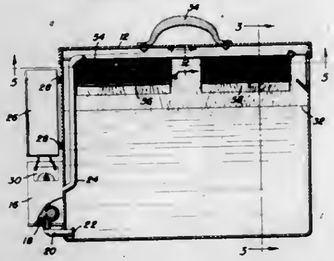
with said supporting means for absorbing at least a part of the energy of vibration imparted to the mixer because of said unbalanced agitator.

2,639,905
PORTABLE ROOM HUMIDIFIER
Dewey M. Dow, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application July 15, 1949, Serial No. 105,009
6 Claims. (Cl. 261—29)



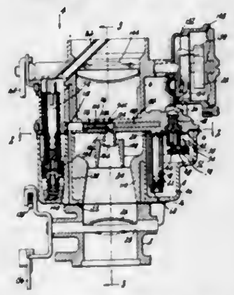
1. A humidifier comprising a liquid reservoir, a ring-like container having a relatively low inner wall spaced above said reservoir, said inner wall being arranged to enable liquid overflowing same to drop into said reservoir, a pan spaced above said container and arranged to enable liquid to drop into said container, a pump and connections for forcing liquid from said reservoir to said pan, a fan inside the inner walls of said container, an electric motor common to said pump and fan, a bracket supporting said motor, arm means radiating from said bracket, and a rubber-like mounting for supporting the outer ends of said arms, said mounting also serving to support said container.

2,639,906
MINNOW BOX
Thomas P. Butler, Antlers, Okla.
Application January 4, 1950, Serial No. 136,697
1 Claim. (Cl. 261—36)



A minnow box comprising a water tank, a circulating pump operatively connected to an electric motor and mounted on the lower outside surface of said tank, said motor being adapted to be operatively connected to a battery, a liquid spray head mounted in the upper portion of said tank, said pump having an inlet conduit extending through the tank wall and communicating with the interior of the tank adjacent its bottom and an outlet conduit extending through the wall of the tank and communicating with said spray head, said spray head including a pipe disposed adjacent the upper, inner surface of said tank wall, a plurality of spray nozzles connected with and mounted on said pipe, each nozzle being positioned to direct its spray downwardly and inwardly of the tank, air inlet openings in the walls of said tank adjacent said spray nozzles, anti-splash baffles secured to the tank walls below said air inlet openings and inclined upwardly in said tank.

2,639,907
CARBURETOR
Elmer Olson, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application October 25, 1950, Serial No. 192,035. Divided and this application January 12, 1952, Serial No. 266,152
5 Claims. (Cl. 261—41)

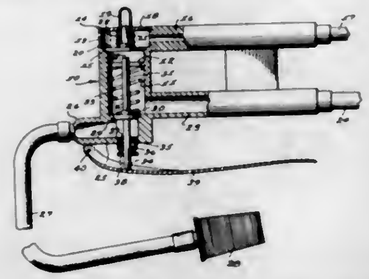


1. A charge forming device for an internal combustion engine having, in combination, a constant level fuel supply chamber, an intake passage having an air intake and a mixture outlet, a throttle valve in said mixture passage for controlling the flow of combustible mixture therefrom, main and idling fuel inlets for supplying fuel to the mixture passage, a fuel conduit for conveying fuel from the fuel supply chamber to said fuel inlets which includes a fuel conveying member extending downwardly into the fuel supply chamber, said member being so positioned that it is completely surrounded by fuel in the chamber and having two fuel passages formed therein, fuel inlet means admitting fuel from the fuel supply chamber to both said fuel passages, a substantially horizontal member connected with said downwardly extending member and having a fuel conduit formed therein, and a substantially vertical partition in said conduit which divides the conduit into two passages each of which is connected with one of the fuel passages in said downwardly extending member.

2,639,908
FLUSH GUN FOR AUTOMOBILE RADIATORS
Merle J. Graham, Dickinson, N. Dak.
Application April 21, 1950, Serial No. 157,358
2 Claims. (Cl. 261—50)

2. A control mechanism for the common discharge of water and compressed air comprising a

tubular valve casing having a first and a second axially spaced internal valve seat formed therein, said casing being provided with a transverse air inlet nipple adjacent said first seat and a transverse water inlet nipple adjacent the second seat, a common discharge conduit connected to the casing in adjacency to the second valve seat, a first valve disc mounted within the casing and engaging the first valve seat and a second valve disc mounted within the casing and engaging the second valve seat, guide means for said first valve disc cooperatively formed on the casing and said valve disc, spring means associated with the said guide means for maintaining said valve disc normally seated, a stem fixedly disposed through the



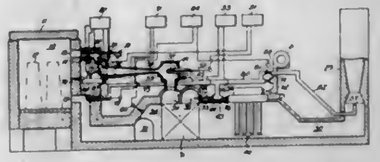
second valve disc and extending beyond the opposite sides of the second valve disc, resilient means engaging said second valve disc for maintaining it normally seated, said stem being axially shiftable and having one end engageable with the first valve disc for unseating it and the opposite end slidingly and sealingly disposed through the casing and an operating lever carried by the casing and engaging said last end of the stem for unseating the second valve disc to establish communication between the water inlet nipple and the discharge conduit and upon further actuation thereof establish simultaneous communication between the discharge conduit and the water and air inlet nipples in opposition to the spring and resilient means.

2,639,909
TOWER PACKING
Max Leva, Pittsburgh, Pa., assignor to The United States Stonewear Company, a corporation of Ohio
Application June 29, 1951, Serial No. 234,289
3 Claims. (Cl. 261—95)



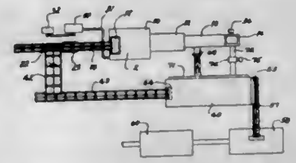
1. A tower-packing element having a general shape that is a segment of an inner-peripheral portion of a hollow torus, with respect to the axis of generation of the torus, said element having at each of its ends an arcuate end-edge face that lies substantially in a plane that is radial with relation to the said axis of said torus, with the said axis also lying substantially in the plane of the respective arcuate end-edge face, the margins of the element that are farthest from the said axis being substantially circular arcs with their centers at said axis.

2,639,910
COMBUSTION APPARATUS USING PREHEATED AIR
Carroll Cone, near Toledo, Ohio, and William H. Dailey, Jr., near Library, Pa., assignors to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application November 30, 1949, Serial No. 130,294
4 Claims. (Cl. 263—15)



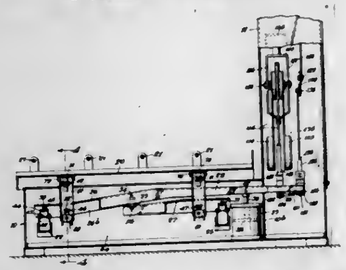
1. In combustion apparatus for supplying combustion air to a plurality of individually controlled burners arranged to fire into furnace chambers, in combination, means forming a flue gas passage for venting flue gas from the furnace chambers; a recuperator disposed in the flue gas passage and having an air heating duct therethrough; air supply pipes for supplying air to each of the burners; air valves in the air supply pipes for individually controlling the supply of air to each burner; an air manifold for supplying air to the air supply pipes; an air conduit for conducting air from the air heating duct of the recuperator to the manifold; a jet pump in the air conduit for drawing air from the recuperator air heating duct and delivering it to the manifold; a nozzle forming part of the jet pump for discharging motive fluid into the air conduit; means for supplying motive fluid to the nozzle; a valve in the nozzle for controlling discharge of motive fluid therefrom; and control means responsive to pressure in the manifold and connected to the valve in the nozzle for actuating said valve in a manner tending to maintain the pressure in the manifold substantially constant.

2,639,911
SAWDUST DRYING APPARATUS
John R. Hecht, Vancouver, British Columbia, Canada
Application May 31, 1949, Serial No. 96,251
6 Claims. (Cl. 263—36)



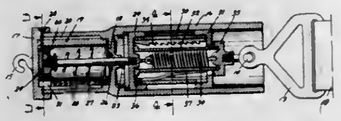
1. Sawdust drying apparatus comprising a furnace, a smoke stack connected to the furnace, a drying chamber, a pipe adapted to direct hot gases from the furnace to the chamber, a spark arrester in the pipe, a controlled opening in the pipe, a carbon dioxide bottle having a tube extending into the pipe, another pipe for removing the gases from the chamber, means for by-passing the gases through the chamber when the temperature therein is below a predetermined point, and means for conveying sawdust through the chamber to be dried therein.

2,639,912
WEIGHING SCALE
Andrew G. Brown, Maywood, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application June 24, 1947, Serial No. 756,636
1 Claim. (Cl. 265—71)



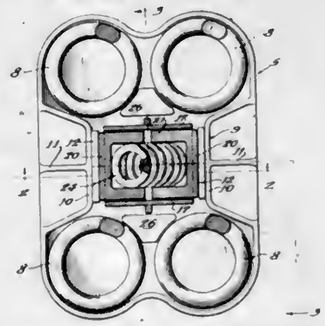
In a scale having two opposed lever arms pivotally mounted on parallel horizontal axes, pivotally linked together at equal arm lengths, and counterbalanced, the combination therewith of two spaced upwardly presented knife-edges coaxially alined on one lever arm on an axis parallel with and at an arm's length from the pivotal axis of said lever arm, two spaced upwardly directed knife-edges co-axially alined on the second lever arm in parallelism with and at the same arm's length from the axis of said second lever arm, each knife-edge being mounted near its ends in its carrying arm under an opening in said arm for a vertical support pivotally bearing on the knife-edge, a weighing platform, four vertical supports for said platform each passing through one of said openings and each in turn having an opening intermediate its ends through which passes the corresponding knife-edge, a knife-edge bearing carried by each of said vertical supports within its said opening and resting on one of said four knife-edges in support of said platform, and spaced rings about each knife-edge within its supported ends fixed relative to the lever arm and just clearing the ends of the bearing to avoid friction thereby to prevent substantial relative axial movement of each bearing and its knife-edge.

2,639,913
CRASH DECELERATOR
Lee T. Reynolds, West Los Angeles, Calif., assignor, by direct and mesne assignments, to Reynolds Decelerator Company, a copartnership
Application April 10, 1950, Serial No. 155,091
5 Claims. (Cl. 267—1)



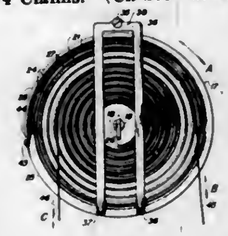
1. A decelerating device comprising: a plunger; a barrel enclosing said plunger, said plunger projecting from one extremity of said barrel; a tension spring securing said plunger to the other extremity of said barrel to resist withdrawal of the former and a longitudinally extending series of ratchet teeth in said barrel positioned to be engaged by said plunger for preventing return of the plunger after withdrawal thereof; and resilient means urging said plunger sidewardly into engagement with said ratchet device.

2,639,914
SPRING GROUP
Donald J. McCullough, Downers Grove, Ill.
Application March 2, 1950, Serial No. 147,219
6 Claims. (Cl. 267—9)



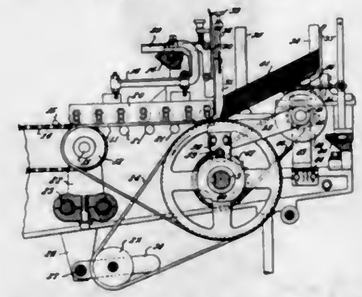
1. A spring group comprising top and bottom spring plates, coil springs between the plates, and a friction snubbing device comprising spaced friction plates fixed with respect to one of the spring plates, a housing fixed to the other spring plate, spaced friction shoes mounted in said housing and movable relatively to said last mentioned spring plate and disposed between the friction plates, each friction shoe having a diagonally disposed spring seat face, and a compression spring seated between the spring seat faces and urging the friction shoes apart and into frictional engagement with the friction plates.

2,639,915
FILM REEL DEVICE
Norman J. Randazzo, Brooklyn, N. Y.
Application May 25, 1950, Serial No. 164,052
4 Claims. (Cl. 271—2.19)



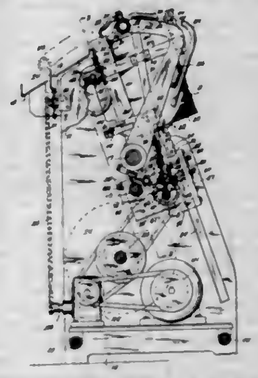
1. In a film reel for use with a projection apparatus, a film chamber having a substantially spiral wall the convolutions of which form a single substantially spiral passage, said passage being open at one side of the reel, whereby a length of film may operatively enter and leave the passage endwise from said open side, a retractable film retainer in frictional engagement with the reel at the said open side thereof, whereby film operatively disposed within the chamber will be held therein by the retainer during the operative rotation of the reel, a pivotally mounted bracket movably supporting the retainer, the pivotal mounting for the bracket being on the side of the reel opposite the open face thereof, and a frame operatively associated with the projection apparatus, a shaft operably supported by the frame, the reel being mounted on the shaft, the pivotal mounting of the bracket being on said frame.

2,639,916
TIMED FEEDING DEVICE FOR CARTON BLANKS
Russell William Anness, Middletown, Ohio, assignor to The Gardner Board and Carton Co., Middletown, Ohio, a corporation of Ohio
Application July 19, 1949, Serial No. 105,543
7 Claims. (Cl. 271—35)



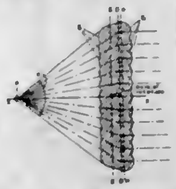
1. A feeding means for sheet-like articles comprising a hopper having at its feed side a feed retard element in the form of a substantially vertical abutment against which a stack of the sheet-like articles may be positioned, a moving means positioned substantially beneath said feed retard and including at least one belt having a frictional surface to engage a leading edge of the lowermost sheet-like article in said stack, said feed retard being spaced from said surface a distance sufficient to permit the passage of one such article, a supporting means for engaging the leading edge of said stack and movable from a position below said surface to a position thereabove together with means for moving said supporting means from one position to the other in timed sequence so that after a sheet-like article is engaged by said surface and is moved forwardly in the direction of feed, the leading edge of said stack is raised by said supporting means to prevent the next succeeding article being engaged by said frictional surface, additional moving means for periodically engaging the trailing edge of said lowermost article, said additional means comprising a roll having a friction pad for engaging a trailing marginal portion of said lowermost sheet-like article, said roll being driven in timed relationship to said supporting means, and additional supporting means for the trailing edge of said stack, said additional supporting means holding the trailing edge of said stack out of contact with said roll, said pad extending from said roll sufficient to effect said engagement, whereby initial forward movement of said lowermost sheet-like article is produced jointly by the pulling movement of said first mentioned moving means on a leading edge of said article and by a pushing movement on a trailing portion by said pad, so as to withdraw articles from said stack individually with great accuracy and freedom from misfeeding and misalignment, said pad moving out of engagement with said lowermost article after movement of said lowermost article is initiated, the trailing edge of said stack thereafter being supported on the said additional supporting means.

2,639,917
PILE ELEVATOR
Keith S. Macey, Parma Heights, Ohio, assignor to Macey Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 31, 1950, Serial No. 141,511
7 Claims. (Cl. 271—62)



1. In combination a hopper plate for supporting a pile of sheets, a rack operatively connected with said hopper plate and adapted upon endwise travel to move the hopper plate up or down, ratchet teeth on one side of said rack, means for preventing retrograde travel of said rack, a support movable up and down in a direction generally parallel to said rack, a pawl on said support spring-pressed into engagement with the toothed side of said rack, a vertically reciprocable feeler bar the upper end of which on its down stroke is adapted to engage the top of the pile and the lower end of which is adapted to bear upon and depress said support, means for raising said feeler bar once for each cycle of the machine, and means effective during the up-stroke of the feeler bar to move said support upward, whereby a downward movement of the feeler bar of sufficient extent to depress the pawl into engagement with the next lower tooth of the rack results in the raising of the rack during the upward movement of the feeler bar.

2,639,918
DISPLAY PROJECTOR
Fred Hotchner, Los Angeles, Calif.
Application July 12, 1949, Serial No. 104,290
6 Claims. (Cl. 272—8)



1. A display device for sweeping the field of view with a beam, including: a light source, a refractor positioned in front of said source at a distance substantially less than optical infinity for the refractor by means restricting said refractor to rotary motion around an axis transverse of the medial line of sight from the field of view, in front of said source and close to said refrac-

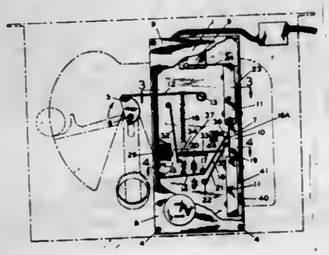
tor, said refractor having a plurality of elongated collecting lenticulations extending in the general direction of said axis and in close bank formation in a direction transverse of the lenticulations and said line of sight, which lenticulations are so conformed that they produce a bank of elongated images of said source close to the lenticulations as compared to the spacing between the lenticulations and said source, said refractor also having a plurality of elongated projecting lenticulations extending in the same general direction as said collecting lenticulations and in similar bank formation, which projecting lenticulations are conformed to focus on said images and project therefrom to the field of view a plurality of substantially parallel elemental beams of low divergence in the direction transverse of the lenticulations, which elemental beams aggregate in a compounded beam of low divergence, said collecting and projecting lenticulations being spaced and conformed so that rotation of said refractor in either direction from a positional normal to the medial line of sight from the field of view around said axis will cause a shift of all of the said images in the same direction transverse of the lenticulations whereby to rotate said elemental beams and sweep the field of view with said compounded beam, and means to oscillate said refractor around said axis between two positions of rotation with the refractor facing generally in the direction of the medial line of sight from the field of view.

2,639,919

COIN CONTROLLED BALL TEEING MACHINE

Joe Mozel, Portland, Oreg.

Application January 24, 1949, Serial No. 72,339
3 Claims. (Cl. 273—33)



1. A golf ball teeing machine having a ball feeding mechanism, a normally closed switch controlling the operation of said ball feeding mechanism, a movably supported switch opening member movable toward and retractable from said switch, means operated by the ball feeding mechanism to intermittently move the member in a given direction toward the switch upon each feeding operation to eventually open the switch after the feeding of a predetermined number of balls, and coin controlled means for releasing the member moving means whereby said member may be retracted in the opposite direction for repeat movement.

2,639,920

SEAMLESS COVER TENNIS BALL AND METHOD OF MANUFACTURE

Arthur Edward Peel Milner, Melbourne, Victoria, and Robert George Tugen, Hawthorn, Victoria, Australia

Application November 3, 1947, Serial No. 783,760
In Australia November 14, 1946
5 Claims. (Cl. 273—61)



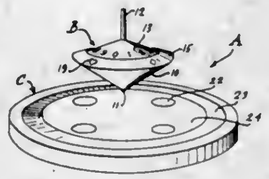
1. A tennis ball comprising a rubber center and a seamless substantially homogeneous felt cover thereon, said cover consisting of a substantially uniform layer of windings felted and contracted compactly onto said center, said windings comprising a sliver of natural wool.

2,639,921

SPINNING TOP

Noel J. Saunders, Toronto, Ontario, Canada

Application February 14, 1948, Serial No. 8,421
1 Claim. (Cl. 273—147)



A spinning top comprising a base having a spinning head at its lower extremity, an index member rotatably mounted on the base about the spinning axis thereof, a ratchet wheel carried by said base, a pawl hingedly carried by said index member to engage with said ratchet wheel, said pawl being formed from a T-shaped blank, said index member having a downwardly projecting arm member with a reduced section adjacent its free end, the cross arms of said T-shaped blank being bent to loosely embrace the reduced section of said index member arm, the reduced section of said index member arm embraced by the arms of said pawl being spaced inwardly from its free end whereby said pawl is free to deflect when said index member and base member rotate relatively to each other in one direction only, said index member carrying indicia, said base carrying indicia cooperating with the indicia on said index member.

2,639,922

SIMPLIFIED PACK OF CARDS FOR PLAYING CANASTA OR THE LIKE

Helen Avery Laycott, Battle Creek, Mich.

Application January 24, 1951, Serial No. 207,598
3 Claims. (Cl. 273—152)

1. A pack of playing cards for "Canasta" consisting of eight sets of thirteen cards, the cards

of each set having identification marks ranging in value from deuce to ace as in a conventional deck of cards, the cards of four of said sets having the value marks thereof printed in one color, the cards of the other four of said sets having the value marks thereof printed in another color, the faces of said cards being devoid of suit designations and four jokers having identically designed faces so that the faces of an entire pack of one hundred and eight cards may be printed with a single set of fourteen printing plates.

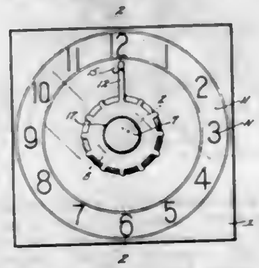


2,639,923

MECHANICAL PUZZLE

Schuyler Reynolds and Ulysses F. Grant, Columbus, Ohio

Application October 16, 1951, Serial No. 251,496
4 Claims. (Cl. 273—153)



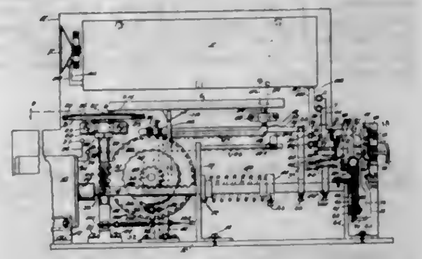
1. A mechanical puzzle, comprising: a base member having an outer face bearing circularly disposed and relatively spaced symbols, an indexing device mounted for axial rotation on the symbol-bearing face of said base member, a concealed and yieldably turnable stop member covered by said device and rotatable about its axis of turning movement, means formed with said indexing device adapted for contact with said stop member upon predetermined rotation of said device to produce rotation of the stop member in unison with said device, rotation of said device in a direction opposite to that of the aforesaid predetermined direction of rotation serving to space the contacting means of the indexing device from said stop member, and frictional means coacting with said stop member to maintain the positions of adjustment thereof when spaced from the rotating means of said indexing device.

2,639,924

SOUND REPRODUCING DEVICE

Elijah Bryant Bush, Oklahoma City, Okla.

Application February 22, 1945, Serial No. 579,250
3 Claims. (Cl. 274—15)



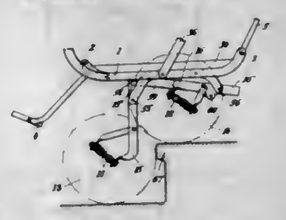
1. In a structure of the class described including a turn table and tone arm having a lower inclined surface, means for rotating the table including a rack bar and a threaded spindle and gear means operatively connecting said rack bar and threaded spindle, and means for lifting and for lowering the tone arm and returning it to a position over the starting point of a record, including an automatically returnable rocker arm pivoted at its lower end and swingable in a vertical plane and having its upper part thereof contactable with said inclined surface, a second bar extending upwardly and operatively connected to said rack bar and adapted to be moved thereby, and a third bar having one end connected to said rocker arm and movable by said second bar, the movement of said rack bar in one direction resulting in the movement of said third bar with respect to said inclined surface to permit gravity lowering of said tone arm, and means for automatically disconnecting said third bar from said second bar to thereby permit said rocker arm to return to starting position, a plurality of electrical circuits adapted to connect a sound amplifier and said tone arm; and electrical switches mounted in said circuits for opening and closing said circuits and projecting means connected to said rack bar and adapted to open and close said switch means upon movement of said rack bar.

2,639,925

BABY CARRIAGE OR THE LIKE HAVING INDIVIDUALLY ROCKABLY SUPPORTED AXLES

Heinrich Miklos, Vienna, Austria, assignor to AVE Transportmittel Holding A. G., St. Moritz, Switzerland, a firm

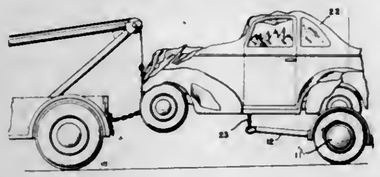
Application February 3, 1950, Serial No. 142,128
In Austria February 23, 1949
6 Claims. (Cl. 280—5.28)



4. A baby carriage or the like comprising a main frame, a front wheel axle, a rear wheel axle,

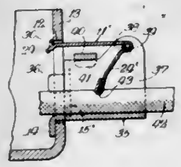
individual support means for said front wheel axle, individual support means for said rear wheel axle, individual pivotal connections between said support means and said main frame, and connecting means pivoted to the support means for the front wheel axle above the pivotal connection of said support means with the main frame and being pivoted to the support means for the rear wheel axle below the pivotal connection of the last mentioned support means with the main frame.

2,639,926
DOLLY OR TRAILER ASSEMBLY
Purl O. Parks, North Liberty, Iowa
Application December 22, 1950, Serial No. 202,370
5 Claims. (Cl. 280—47.15)



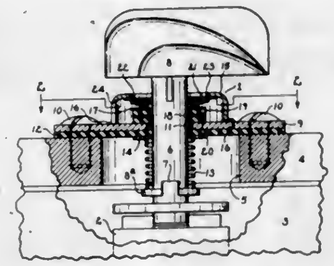
1. A dolly adapted for use in the transportation of wrecked motor vehicles comprising a frame, said frame including a pair of spaced apart parallel support members, means adjacent the ends of said support members to secure said support members in spaced apart relationship, a bracket carried by each of said last named securing means, a ground wheel journalled on each of said brackets, a tongue secured to at least one of said spaced apart parallel support members and extending forwardly of said support members, an arcuate tread plate spanning the gap between said support members adjacent each end thereof, the ends of each of said arcuate tread plates being anchored to the support members, the said plates being adapted to receive either the front or rear wheels of the motor vehicle, means carried by said spaced apart support members for securing the wheel axle of the motor vehicle to the said frame, and further securing means on said tongue for detachably connecting the tongue to the motor vehicle drive shaft.

2,639,927
CABLE CONNECTOR
Henry Robert Billeter, Highland Park, Ill.
Application August 23, 1949, Serial No. 111,872
6 Claims. (Cl. 285—6.5)



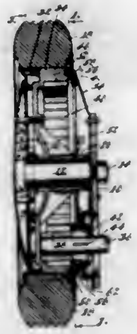
1. The combination with an outlet box having a knock-out opening, and a cable adapted to be connected thereto, of a cable connecter comprising a connecter body adapted for insertion in the knock-out opening and to receive the cable, said connecter body having a holding lug adjacent an inner end engageable with the inside face of the outlet box wall with its outer end extended outwardly from the outlet box, and single latching means for detachably affixing the connecter body to the outlet box and the cable to the connecter body, comprising a generally U-shaped resilient spring member mounted on the connecter body adjacent the outer end of the latter and having a first and a second leg resiliently movable toward each other, the first leg extending into the connecter body and engageable with the cable disposed therein and the second leg extending longitudinally of the connecter body, generally exteriorly thereof, and having a lug engageable with the inside face of the marginal edge of the opening, said second leg having a substantial length longitudinally of the body for enabling engagement therewith by a thumb or finger, said second leg, when the cable is in the body, being normally spaced from the other parts of the connecter that are located inwardly thereof, in a direction transversely of the connecter, and from the cable, a distance at least as great as the length of the lug on the leg whereby the leg can be moved toward the first leg a distance sufficient for insertion of the connecter in the opening and removing it therefrom.

2,639,928
SEALING DEVICE
Clyde F. Robbins, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 16, 1949, Serial No. 93,579
4 Claims. (Cl. 286—9)



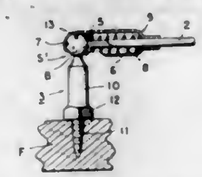
1. The combination with a wall separating regions of different pressures and a shaft extending through an opening in said wall, of a stack of alternately arranged elastic washers having inner and outer peripheries and rigid washers mounted upon said shaft on the pressure side of said wall to form a seal, said rigid washers having a close running fit upon said shaft and said elastic washers having their inner peripheries fitting snugly about said shaft and having their outer peripheries exposed to the higher of the different pressures to afford a closer fit between said shaft and said washers with one of said elastic washers being exposed for engagement with said wall, and spring means pressing said washers to maintain the opposing faces thereof in sealing engagement and to maintain said exposed elastic washer in sealing engagement with said wall, said exposed elastic washer permitting lateral play of said shaft within the opening in said wall and the other of said elastic washers upon such play of said shaft being movable laterally therewith and being confined between said rigid washers to maintain the same in tight sealing engagement with said shaft.

2,639,929
MOWER WHEEL SEAL
Allyn Ranft Cooper, Marshalltown, Iowa, assignor of one-half to Harold M. Cooper, Marshalltown, Iowa
Application June 7, 1947, Serial No. 753,289
1 Claim. (Cl. 286—11.13)



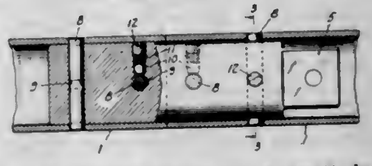
A device including two relatively rotating opposed discs and means holding said two discs in a predetermined spaced relationship, said device including a first disc having an annular groove having generally parallel side walls extending axially of said first disc and a bottom wall extending at an angle with respect to the plane of said first disc, a sealing ring of triangular cross sectional form disposed in said groove so as to have one side extending generally parallel to the plane of said first disc, and a second disc having a cylindrical flange with the free flange margin disposed in said disc groove in compressing engagement with the said one side of said sealing ring but spaced from the side walls of said groove.

2,639,930
CURTAIN ROD AND BRACKET THEREFOR
Isaiah Vernon Thornton, Ogden, Utah
Application December 22, 1949, Serial No. 134,455
3 Claims. (Cl. 287—90)



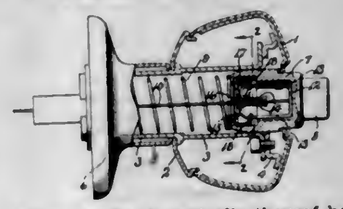
1. In a device for hanging curtains, the combination of two elements comprising a rod to support the curtain and a bracket to support the rod; and means for removably connecting said elements, comprising co-acting members mounted on said elements, respectively, one of said members being a ball, and the other one of said members being a sleeve slidable on one end of the element upon which it is mounted, and having an opening through which said ball can enter said sleeve, and an expansion spring confined between said end and said sleeve to bias said sleeve toward the element upon which said sleeve is mounted, to engage the inserted ball between said sleeve and said end of the element upon which said sleeve is mounted.

2,639,931
COUPLING FOR EARTH BORING UNITS
Charles W. Kandle, Chicago, Ill.
Application January 6, 1949, Serial No. 69,581
2 Claims. (Cl. 287—127)



1. In a coupling system for an earth boring unit having a drill secured to a plurality of lengths of pipe laid end to end and a motor to rotate the same, a coupling comprising a generally cylindrical member with the one end portion disposed in one length of pipe and the other end portion thereof disposed in another length of pipe, a head on said one end portion of said coupling member to be engaged by said motor, cylindrical pins extending transversely through each pipe and coupling to join the same together for rotation with the outer ends of the pins flush with the circumferential surface of the pipe to prevent engagement with the ground being bored, and means to secure said pins against displacement.

2,639,932
PUSH BUTTON CONSTRUCTION
Herbert Young, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application February 27, 1950, Serial No. 146,546
8 Claims. (Cl. 292—336.3)

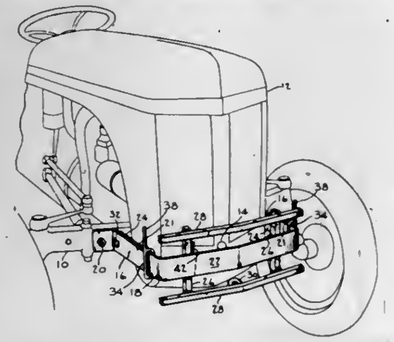


1. A knob, a shank centrally thereof having a longitudinal opening therethrough, a longitudinally movable and rotatable push button centrally of said knob at the outer portion thereof and extending into said shank, said push button having a chamber from its inner end outwardly, closed at its outer end, a flat bar lengthwise of said knob shank extending into said chamber, a member within said chamber at the inner portion of the push button having a passage through which the bar passes secured to said push button, a locating element within the chamber yieldingly engaging said bar at opposite sides, means for operatively connecting said member with said locating element to cause them to move in unison with the push button.

2,639,933
BUMPER FOR TRACTORS AND THE LIKE
Walter E. Meyer and Gerald L. Flaherty, Fond du Lac County, Wis., assignors to The Michler Company, Fond du Lac, Wis., a corporation of Wisconsin
Application March 9, 1949, Serial No. 80,418
1 Claim. (Cl. 293—73)

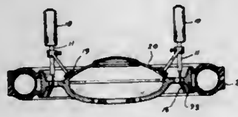
In a bumper for a tractor having bumper mounting brackets provided with forward exten-

sions, and a bumper having rearwardly extending legs adjacent said extensions and pivoted thereto inwardly of the forward ends of said extensions to pivotally support said bumper, said extensions and legs being substantially overlapped in the normal position of said bumper, a latch for holding said bumper in said normal position comprising a transverse rod pivoted to said legs with the axis of said rod adjacent the under side of said legs and slightly rearward of the forward ends of said extensions when said bumper is in normal position, a pair of eyes carried by said rod and encircling said legs, said eyes being long enough to permit them to be pivoted about the axis of



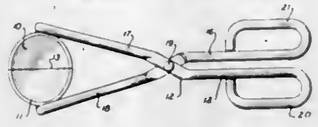
said rod and swung at the top of said eyes enough to be moved forwardly of the forward ends of said extensions to permit disengagement therefrom, said eyes being wide enough to swing over the forward ends of said extensions and engage the forward edges of said extensions to lock said eyes thereto, a lever secured to said rod, spring means acting between said lever and said bumper to swing said eyes rearwardly into locked position with said extensions to hold said bumper in normal position, and a cam on the lower forward corner of at least one of said extensions to engage the top of an eye and swing said eyes forwardly as said bumper is moved toward normal position.

2,639,934
WHEEL LIFTER
Robert Almer Swinamer, Armdale, Nova Scotia, Canada, assignor of one-half to Arthur H. Phillips, Halifax County, Nova Scotia, Canada
Application October 23, 1950, Serial No. 191,528
In Canada October 6, 1950
4 Claims. (Cl. 294—15)



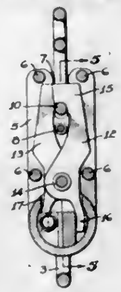
1. In a device for handling an automobile wheel of the disc type having oppositely disposed slots at the periphery of the disc a pair of tools each of which comprises a handle, an elongated member extending from said handle, a blade angularly extending downwardly in one direction from the end of said member which is opposite from said handle and adapted to be passed through a slot and to bear against the opposing surface adjoining the slot, a second elongated member extending from the first elongated member downwardly in a direction at an angle to said direction and terminating in a buffer member with a concave arcuate surface shaped to conform to and bear on the facing surface of the wheel disc adjacent to the slot.

2,639,935
GARDEN TOOL
William K. Foulke, Minneapolis, Minn.
Application March 10, 1948, Serial No. 14,092
5 Claims. (Cl. 294—50.8)



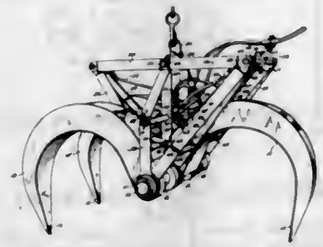
1. A garden tool comprising first and second, complemental spade elements each constituted as a part-cylindrical wall which is situated in a single circumference in direction transversely thereof, is straight in longitudinal direction, tapers regularly in longitudinal direction from an inner portion to an outer end portion thereof and terminates at its interior side in spaced apart cutting edges which terminate at their outer ends in a cutting point, and means fixedly, separately supporting said first and second complemental spade elements for movement away from and toward each other in a single plane with the part-cylindrical walls constituting said first and second, complemental spade elements, respectively, extending interiorly and downwardly at substantially equal angular relation to the plane in which the first and second, complemental spade elements are relatively movable and the cutting edges and cutting points of the first and second, complemental spade elements, respectively, in facing, substantially alined relation.

2,639,936
PARACHUTE HARNESS RELEASE
John A. Gaylord, Pacific Palisades, Calif., assignor to James M. Bryant, Paul R. Simon, and Albert E. Isenberg, Los Angeles County, Calif.
Application August 21, 1950, Serial No. 180,606
6 Claims. (Cl. 294—83)



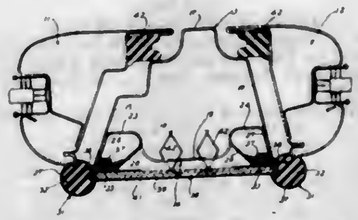
1. A release for a parachute harness having a coupling, including a rod, said release comprising, a body having an opening for receiving said rod, a pair of latch members mounted by said body for independent movement from open position to closed position inhibiting the removal of said rod from said opening, a pair of operating plungers, one connected to each latch member and mounted for independent movement, and means for yieldingly urging said plungers to a closed position, said plungers being axially aligned and in position to be simultaneously engaged by different fingers of the same hand of an operator.

2,639,937
GRAPPLE
Roy O. Billings, Milwaukee, Wis.
Application April 11, 1949, Serial No. 86,690
11 Claims. (Cl. 294—88)



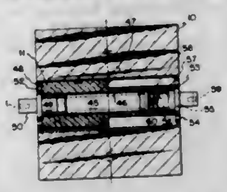
1. A grapple comprising a head; at least two spaced arcuate tines having ends which project in the same direction pivotally connected to the lower end of said head for swinging movement in vertical planes; at least one arcuate tine having an end which projects in the opposite direction pivotally connected to the lower end of the head for swinging movement in a plane substantially parallel with and between the planes of movement of said first-mentioned tines; fluid pressure operated means including a separate hydraulic ram supported on said head and connected to each of said tines for causing swinging movement of said tines with at least one tine moving oppositely to the others and means for controlling the simultaneous operation of the tines.

2,639,938
VEHICLE BODY PILLAR AND TRIM ASSEMBLY
Edwin C. Pickard, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application January 24, 1951, Serial No. 207,512
1 Claim. (Cl. 296—28)



In a vehicle body construction, a pillar having an outer section comprising a base portion and integrally formed side flanges extending laterally inwardly from opposite sides of said base portion, an inner pillar section having an intermediate longitudinally extending portion appreciably offset outwardly from the longitudinal plane containing the marginal edges of said side flanges, and laterally inwardly extending side flanges with the side flanges of said inner and outer sections arranged in juxtaposition and secured together, the marginal edges of the side flanges of said inner and outer sections terminating adjacent each other and presenting an inwardly facing edge portion having a longitudinal dimension equal to the thickness of said two flanges, a pair of windcords each having a generally cylindrical compressible sealing portion and a smaller beaded portion spaced from said sealing portion and connected thereto by flexible webbing, each of said windcords being assembled to one of the inwardly facing edge portions of said pillar with the flexible webbing overlying said edge portion and extending generally at right angles to the side flanges of the inner and outer pillar sections, the beaded portion of each of said windcords being positioned adjacent the side flange of the inner pillar section, a plurality of vertically spaced tabs struck out from the intermediate portion of said inner pillar section and bent into engagement with said windcords to retain the latter in place along the edges of said pillar during assembly, a relatively rigid trim panel adjacent the offset intermediate portion of said inner pillar section with the opposite edges thereof overlying the juxtaposed side flanges of the pillar sections and the adjacent portions of said windcords and with the intermediate portion of said trim panel spaced from the offset intermediate portion of said inner pillar section, and a plurality of resilient fasteners securing said trim panel to the offset intermediate portion of said inner pillar section to resiliently clamp the trim panel and the windcords to the pillar.

2,639,939
DEODORIZING TOILET PAPER HOLDER
Henry L. Matchett, Philadelphia, Pa.
Application October 8, 1951, Serial No. 250,353
4 Claims. (Cl. 299—24)

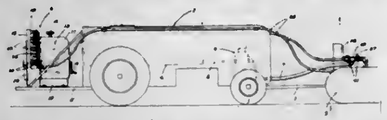


1. A deodorizing support for a toilet paper roll, comprising a cylindrical body of volatile material having an axial bore, a pair of plugs extending into said bore and also projecting therefrom to provide supporting trunnions, and an annular disc surrounding each of said plugs intermediate its ends and provided with apertures to permit escape of the scent emanating from said body, said discs supporting an encircling paper roll independently of said body as said body diminishes diametrically through volatilization.

2,639,940
ORCHARD SPRAYING MACHINE
Richard H. Fish, Morgan Hill, Calif., assignor to Air-O Fan Products Corporation, a corporation of California
Application October 30, 1950, Serial No. 192,964
4 Claims. (Cl. 299—30)

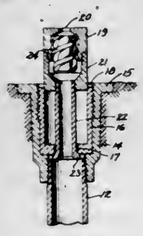
1. In combination, a tractor, a trailer coupled to the tractor, the trailer including means to supply a liquid spray under pressure, a platform at the rear of the trailer, a unitary self-powered

spray unit mounted on the platform, a conduit system mainly exteriorly of the trailer connected between said spray supply means and the spray



unit, and a control valve assembly in said conduit system mounted on the tractor adjacent and alongside the operator's station.

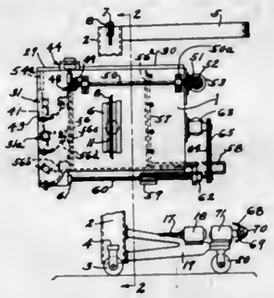
2,639,941
SELF-ELEVATING SPRINKLER HEAD AND SYSTEM
William B. Glynn, Menlo Park, Calif.
Application October 2, 1950, Serial No. 187,928
4 Claims. (Cl. 299—61)



1. In a lawn sprinkler head, the combination of a cup-like housing adapted to be threaded at its bottom to the end of a water supply pipe, a cylinder forming member having an elongated, cylindrical bore threaded into said housing and having an open end flush with the top of said housing, a hollow cylindrical piston having an elongated, cylindrical exterior having a spray orifice at its upper end, the respective diameters of said cylinder forming member and said piston allowing for a sliding movement of said piston with a close fit excluding ingress of foreign matter, a tubular extension carried by said piston and projecting downwardly into said water supply pipe, means at the end of said tubular extension for limiting upward movement of said piston with respect to said cylinder forming member, and a solid, cylindrical insert having a plurality of helical threads on its cylindrical surface of a lesser diameter than the diameter of said cylinder-forming member slidable within said hollow piston having a pitch that will insure a full elevation of said piston with respect to said housing at the prevailing water pressure.

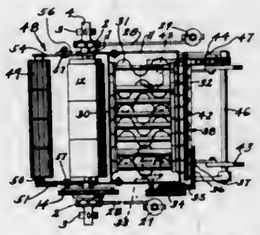
2,639,942
MACHINE FOR APPLYING MATERIAL TO WALLS
Spencer A. Earnshaw, Los Angeles, Calif.
Application November 5, 1948, Serial No. 58,454
9 Claims. (Cl. 299—62)

1. In a coating machine of the character set forth having a hopper pivotably and slidably mounted to an upright frame; means to pivot said hopper to a desired position and means to raise and lower said hopper; a multiple number of impellers rotatably and separately mounted in the sides of said hopper at the front end; pusher plate means for supplying coating material to the said impellers and power means for revolving the said impellers in the service of discharging said



coating material in being applied to a surface to be coated.

2,639,943
MACHINE FOR APPLYING MATERIAL TO WALLS
Spencer A. Earnshaw, Los Angeles, Calif.
Application April 30, 1948, Serial No. 24,338
14 Claims. (Cl. 299—63)

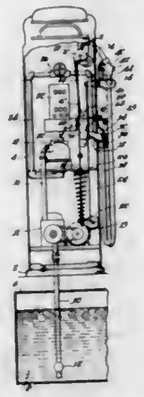


2. In a machine for coating material, comprising an upright frame mounted to be moved in any direction, a frame unit pivotally mounted to said upright frame, a hopper, fixed to said frame unit, having its front end open; drums mounted within the hopper at the front end thereof; means to revolve said drums, and means comprising feed screws and a pusher plate within the hopper to feed material to said drums to be discharged by said drums at a desired velocity.

2,639,944
LIQUID DISPENSING DEVICE
Edwin S. Higginbotham, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application August 7, 1947, Serial No. 766,928
24 Claims. (Cl. 299—77)

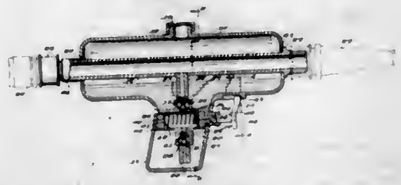
1. In a liquid fuel dispensing pump, the combination of a housing enclosing a liquid dispensing line one end of which is adapted to be connected to a source of liquid petroleum fuel through which liquid is adapted to be forced under pressure, said dispensing line terminating in a relatively long flexible hose the terminal of which hose is provided with a nozzle having a valve provided with a manual actuator for opening and closing the valve, said housing having a hose receiving opening and said housing on its exterior having a nozzle support, means for storing a portion of said flexible hose within said housing, said means including devices allowing

the hose to be extended through the opening in said housing when the hose is pulled upon whereby to increase the length of the portion of the hose that extends through the opening in said housing, and mechanism including devices exerting a reactive and resilient pulling effect upon said hose as said hose is pulled through said opening in said housing, said devices including a conical compression spring normally under compression and disposed with said housing and adapted to compress upon the pulling of the



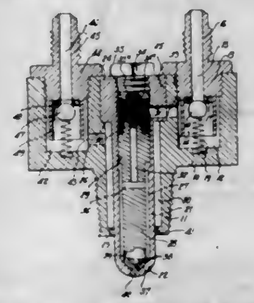
hose from the housing, said devices including means for balancing the increasing compressive forces of said spring and the consequent reactive pull on said hose as the hose is pulled progressively outwardly through said opening whereby to prevent said extended hose from dragging in all extended positions of the hose, said spring and said balancing means producing a pull on said hose which increases at an increasing rate as the terminal of the hose is moved away from said housing.

2,639,945
CAR, FLOOR, AND WALL WASHER
Allen H. Rowlett, Washington, D. C.
Application August 15, 1951, Serial No. 241,953
4 Claims. (Cl. 299—83)



1. A spray nozzle comprising a substantially hollow jacket, a tube having threaded ends extended longitudinally through said jacket, a nozzle connected to one of said threaded ends and a water supply hose connected to the opposite threaded end, said jacket having an extension at one side at right angles to said tube, a pump in said extension at the side of the jacket, and a trigger positioned on said extension for actuating the pump, said pump positioned to inject fluid from the jacket into the tube extended through the jacket upon operation of said trigger.

2,639,946
MOLECULAR SPRAY CARBONATOR ASSEMBLY
Abraham J. Cohen, Samuel Levine, and Morris Caminear, New Haven, and Stephen S. Price, North Haven, Conn.
Application November 9, 1950, Serial No. 194,904
6 Claims. (Cl. 299—119)

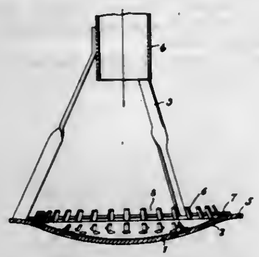


1. A molecular spray carbonator assembly comprising a housing, a water discharge means, a water connnection for said discharge means, a carbon dioxide discharge means surrounding the water discharge means to imprison the water molecules discharged from the water discharge means to thereby obtain a high volume content carbonated water while using a minimum amount of carbon dioxide, a carbon dioxide connection for said carbon dioxide discharge means, said housing having a nozzle receiving socket, said water discharge means comprising a nozzle removably fitted in said socket of said housing, a stem in the nozzle, the housing having a communication with the water connection for feeding water under pressure to said nozzle, said nozzle having a discharge aperture at the discharge end thereof, said stem being spaced from said nozzle for a portion of its length, said stem having a tapering end, angular veins formed upon said tapering end and spacing said tapering end from the discharge end of said nozzle for discharging a water mist in a whirling motion through the discharge aperture of said nozzle, said stem being longitudinally adjustable toward and away from the discharge aperture of the nozzle to regulate the volume of discharge of water mist through said aperture, and a removable means closing said nozzle receiving socket above said stem and facilitating access to said stem for the removal of said stem from said nozzle for cleaning, repair and replacement.

2,639,947
LIQUID DISTRIBUTING TRAY
Heinrich Tramm, Mulheim-Speldorf, and Franz Schaub, Duisburg-Hamborn, Germany, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a joint-stock company of Germany
Application May 23, 1949, Serial No. 94,902
In France June 7, 1948
2 Claims. (Cl. 299—121)

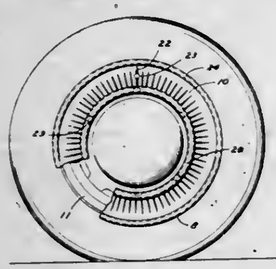
1. Liquid distributing device comprising in combination, a stationary tray formed with perforations arranged along concentric circles, means above said tray for directing a liquid jet onto the tray center, baffle members arranged near said perforations and near the periphery of said tray which extend at an acute angle to the upper tray surface with their inner faces con-

verging towards the middle axis of said tray, the baffle members near the perforations extending at



steeper angles to the tray surface than the baffle members near the periphery of said tray.

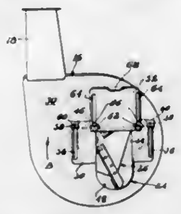
2,639,948
VEHICLE WHEEL ORNAMENTAL TRIM RING CONSTRUCTION
Robert S. Grimshaw, Detroit, Mich.
Application September 10, 1947, Serial No. 773,095
4 Claims. (Cl. 301—37)



1. An article of manufacture comprising an ornamental wheel trim ring structural assembly for attachment to a tire rim with a main valve stem, said ring being formed from a flat strip by means of a plurality of gathered or fluted sections on the inner periphery and inclined to the axis of the ring and diminishing outwardly to a flat surface on the outer periphery, resultant ends being joined together forming a continuously circular concave ring or disc with a valve stem opening at the joint.

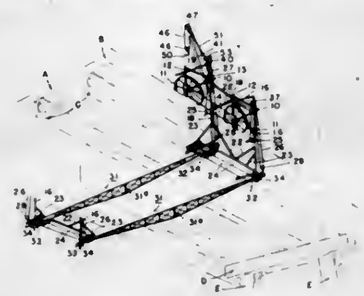
2,639,949
MATERIAL-HANDLING MACHINE
Richard U. Zollars and Jack D. Lawson, Ottumwa, Iowa, and Jack H. Berry, Rock Island, Ill., assignors to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application December 30, 1950, Serial No. 203,696
6 Claims. (Cl. 302—37)

1. In a material-handling elevator of the type in which material is fed horizontally along a feeder means to a rotary elevating means, the improvement comprising: an upright housing that is generally circular about a horizontal axis and that has an upright tangential discharge duct, said housing having horizontally spaced apart, upright front and rear walls, the front wall being adjacent and normal to the feeder means and having a feed opening therein through which the feeder means introduces material into the housing; said feed opening being offset laterally to the side of the housing opposite the discharge duct and a major portion of said opening being below the housing axis; a rotor of the radial-arm type within the housing and journaled on the housing axis for rotation so that the radial arms move downwardly across the feed opening and then upwardly to propel material through the discharge duct; door means movably carried by the housing for regulating the size of



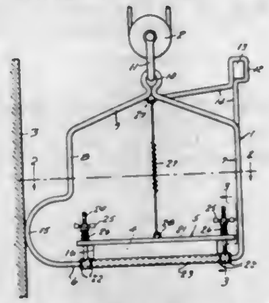
the feed opening; said rear wall being imperforate except for an air inlet opening disposed below the housing axis and laterally elongated so as to have a portion thereof in fore and aft alinement with the lower part of the feed opening and another portion offset laterally from the lower part of the feed opening in the direction of the discharge spout; and means movably carried by the housing for selectively covering the air inlet opening in varying amounts to regulate the size thereof.

2,639,950
PORTABLE TRAVELING SCAFFOLD
Claude C. Wheeler, Oxford, N. C.
Application January 4, 1950, Serial No. 136,732
7 Claims. (Cl. 304—9)



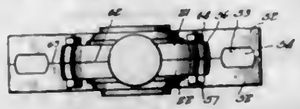
1. A travelling scaffold comprising a frame extending transversely across and over the deck structure of a bridge, means supporting said frame on said deck structure for longitudinal movement therealong, said frame having portions projecting outwardly beyond the lateral edges of said deck structure, a hanger fixed to and depending from each of said projecting portions to a position below the bottom of said deck structure, a pair of spaced, substantially parallel rigid beams extending between the lower ends of said hangers at a level below the bottom of said deck structure, and means for releasably and independently supporting each end of each beam from said hangers.

2,639,951
SWING STAGE SCAFFOLD
Ralph Allenbaugh, Mansfield, Ohio, assignor of one-half to Wilberd F. Feigenbaum, Mansfield, Ohio
Application July 1, 1949, Serial No. 102,487
5 Claims. (Cl. 304—15)



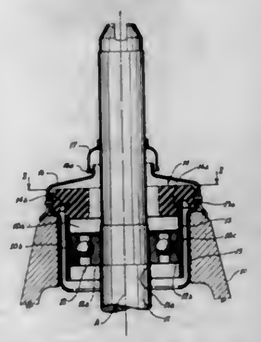
1. A swing stage stirrup comprising a bottom section adapted to support a plank, a side section extending upwardly from each end of said bottom section, means by which the upper ends of said side sections are secured to a suspending mechanism, and clamping means for securing a plank to said bottom section; said clamping means comprising a pair of spaced bolts mounted for swinging movement about the axis of said bottom section, a clamping bar having a pair of spaced apertures through which said bolts extend, a clamping nut on each of said bolts operative to hold said clamping bar in clamping engagement with a plank resting on said bottom section, said clamping bar being mounted independently of said side sections for rocking movement about the axis of said bottom section.

2,639,952
SELF-LUBRICATING UNIVERSAL BEARING
Kenneth E. Whiteley, Chicago, Ill., assignor to Randall Graphite Products Corporation, Chicago, Ill., a corporation of Delaware
Application March 7, 1947, Serial No. 732,948
27 Claims. (Cl. 308—72)



1. A bearing of the self-lubricating universal type comprising a pair of similar half housing members fitted together to form a supporting housing, each of said half housing members being formed with an attaching flange, and each attaching flange having a groove in one of its engaging edges which forms an aperture in the attaching flanges where they are joined together, each of said halves also comprising an upwardly extending body portion which is formed with an annulus, and each annulus having a partially spherical inner surface, each annulus also having a pair of apertures for securing members, the apertures on the respective halves registering with each other and having securing members therein, and a bearing member comprising a cast metal member formed with an exterior partially spherical surface rotatably mounted on said inner partially spherical surfaces, said cast metal member being cast upon a cylindrical bearing of the lubricating type and extending about said bearing, and being provided with an inner metallic shell of annular shape located on said bearing and forming an annular lubricant chamber.

2,639,953
BEARING ASSEMBLY FOR ABSORBING VIBRATIONS OF CENTRIFUGE SPINDLES AND THE LIKE
James Edward Cook, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application January 2, 1951, Serial No. 204,043
5 Claims. (Cl. 308—184)

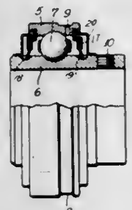


1. A bearing assembly for the spindle of a centrifuge, or the like, which comprises a stationary housing having a side wall surrounding the spindle with a clearance, a bearing in the housing closely surrounding the spindle and having inner and outer races, there being an annular space between the outer race and the side wall of the housing, an annular element closely surrounding the outer race and movable radially therewith, said element being spaced from the side wall of the housing and having a part projecting from said space axially of the spindle and into said clearance in spaced relation to the spindle, an annular body of rubber-like material displaced axially from said annular space and secured to said projecting part, the inner portion of said body being spaced from the spindle but located nearer the spindle axis than is the annular element, and a retaining member on the housing spaced from said element and surrounding and engaging said body to confine the same against bodily movement while said inner portion yieldingly resists radial movement of said element, bearing and spindle, the rubber-like body having said inner portion thereof fitted closely in the annular element and having another portion extending outwardly from said annular element to the retaining member.

2,639,954
SEALED BEARING
Howell L. Potter, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application May 11, 1948, Serial No. 26,319
8 Claims. (Cl. 308—187.2)

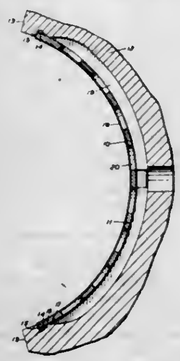
1. In an antifriction bearing comprising inner and outer bearing rings with interposed antifriction bearing members, said outer ring having an

undercut groove in one edge, said inner ring having an annular seal groove formed in the outer surface thereof, seal means permanently secured in said undercut groove and carrying a resilient seal valve extending into engagement with one side of said seal groove and held in sealing engagement therewith by the inherent resiliency of said seal valve, whereby ingress of foreign matter is resisted by the seating of said seal valve against said one side of said seal groove and whereby lubricant pressure in the space between said rings and about said antifriction bearing members may lift said seal valve from its seat and permit egress of lubricant past said seal



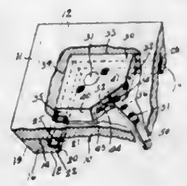
valve, and a sheet-metal seal-plate including an integral sleeve hub permanently carried by said inner ring and lying in closely spaced relation to and at the outside of said seal valve and forming with said seal valve a labyrinth space to receive lubricant passing said seal valve, whereby lubricant from the space between said bearing rings and about said antifriction bearing members and at the inside of said seal means may pass said seal valve and enter said labyrinth space, and whereby lubricant and foreign matter in said labyrinth space will be prevented by said seal valve from entering the space between said rings at the inner side of said seal means.

2,639,955
BEARING
Henry Christopher Tryon, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application January 13, 1949, Serial No. 70,691
In Great Britain January 28, 1948
7 Claims. (Cl. 308—237)



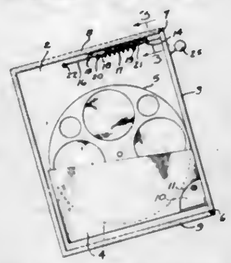
1. A bearing for supporting a rotating part in a member which at least partly surrounds said rotating part, said bearing comprising a concave recess in said member which extends in the axial direction right across said member and in the circumferential direction over an arc which subtends less than 180°, abutments extending in the axial direction at each end of said recess, and a thin walled inherently flexible curved strip of hard metal having a bearing metal face which is a direct force fit in said recess between said abutments, and is rigidly supported by said member.

2,639,956
LATERALLY MOVING DETACHABLE LEG CONSTRUCTION
Jack L. Jacobson, Glencoe, Ill.
Application August 24, 1951, Serial No. 243,491
6 Claims. (Cl. 311—100)



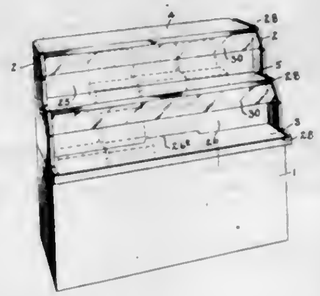
1. A detachable leg construction for furniture, or the like, comprising a base member having a substantially flat body surface having generally L-shaped portions forming a corner construction and providing a pair of intersecting channels, a detachable leg assembly comprising a leg and leg plate carried at the top end of said leg, said leg plate having a flat surface to rest against the flat base surface, said leg plate having two adjacent marginal portions complementarily shaped to said L-shaped members to provide tongues for entry into said channels when said leg plate is flat against the base surface, said leg plate having a flat side opposite the corner where the channels intersect, and means pivotally secured to said base surface and movable to a locking position for engaging the flat side of said leg plate for maintaining said leg plate locked in position, said movable means having an unlocking position where said means are clear of said leg plate to permit the same to be removed.

2,639,957
CONTROL MEANS FOR FILM REEL STORAGE CABINETS
Isaac Geller, Portland, Oreg.
Application March 4, 1950, Serial No. 147,647
4 Claims. (Cl. 312—20)



1. In combination with a storage cabinet for reels of film, a plurality of bins, means for automatically controlling the position of each bin of said cabinet, said means comprising a keeper-plate secured to the interior of said cabinet, said plate having spaced depending ear extensions with coinciding slots therein, a rod slidably positioned in the slots of said ears, a spiral spring surrounding said rod and having one of its ends secured thereto and the other of said ends secured to said plate to normally but yieldingly press said rod against the front portions of each of said bins, and a stop secured to said rod to prevent its displacement from the slots, said spring being strong enough to prevent full closure of the bin when unloaded but weak enough to allow full closure thereof when loaded.

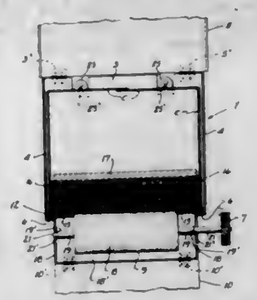
2,639,958
HUMIDOR CIGAR CASE
Alpha W. Stephenson, Grand Rapids, Mich., assignor to The E. O. Bulman Manufacturing Company, Inc., Grand Rapids, Mich., a corporation of Michigan
Application October 4, 1951, Serial No. 249,770
3 Claims. (Cl. 312—31)



1. A humidor cigar case comprising a cabinet having a substantially closed interior, a substantially horizontal shelf on the exterior of the cabinet, a substantially vertical back for said shelf, said back being a wall of said cabinet, means for humidifying air and injecting it under pressure into the interior of the cabinet, an outlet passage from said interior through said back wall in the upper region thereof above said shelf and a downwardly extending deflector plate in front of said outlet passage and spaced from said back and above said shelf, whereby a box of cigars may be supported on said shelf below said deflector with its open cover leaning against said back and behind said deflector.

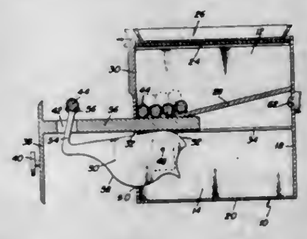
2,639,959
DISPENSER FOR DISKS, PADS, GASKETS, AND SHEETLIKE MEMBERS
Earl R. Couden, Chicago, Ill., assignor to Beaverite Products, Inc., Beaver Falls, N. Y., a corporation of New York
Application March 15, 1949, Serial No. 81,536
11 Claims. (Cl. 312—54)

8. Sanitary dispensing mechanism for dispensing disklike members in the form of disks, pads or gaskets in a semi-automatic manner including a supply magazine, dispensing mechanism including a cylindrical dispensing roller having a friction gripping surface and means for rotating said roller, means permitting only one disklike member to be drawn from the magazine in a single operation including a separating plate having a central discharge opening proportionately smaller than the size of the disklike member to be dispensed, a groove formed around the



inner edge of said discharge opening operative to retain any disklike member not actually engaged by the dispensing roller and prevent it from being dispensed from the magazine, said dispensing roller being operative to forcibly withdraw the disklike member through the discharge opening in the separating plate.

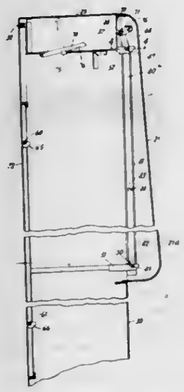
2,639,960
CIGARETTE DISPENSER
Robert M. Frederick, Richland, Wash.
Application May 23, 1950, Serial No. 163,611
1 Claim. (Cl. 312—80)



A cigarette dispenser comprising a cabinet having a magazine for cigarettes, said magazine having a sloping bottom wall with a discharge opening, said cabinet having a front wall with an aperture therein, a horizontally disposed integral flat, plate-like cigarette delivery tray slidably mounted in said cabinet below said bottom wall and slidable through the upper portion of said aperture, said tray having a vertical slot extending entirely therethrough and registrable with said discharge opening for receiving a single cigarette, a lever disposed beneath said tray and mounted thereon for vertically pivoting movement, a cigarette support member on said lever receivable and vertically movable through said vertical slot, an actuating cam on the bottom surface of said lever engageable with the lower edge of said aperture in the open position of the tray for imparting upward pivoting movement to the lever and effecting upward movement of the support member through the vertical slot, an abutment surface on said lever engageable with the bottom surface of the tray to limit downward

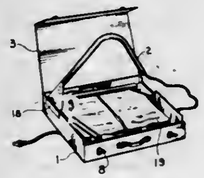
movement of the lever and halt downward travel of the support member within the bottom portion of the vertical slot.

2,639,961
VENDING MACHINE CABINET
Burgess C. Case, Plainfield, N. J.
Application November 28, 1947, Serial No. 788,525
6 Claims. (Cl. 312—219)



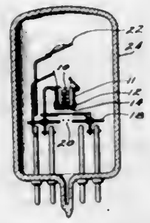
1. A vending machine cabinet having front, rear and side walls, a side-hinged bulging front door mounted on and projecting beyond the cabinet front wall, a stationary bracket within said cabinet and having a grooved portion projecting beyond the cabinet front wall, a locking bar vertically slideable on the inner side of the projecting portion of said front door and having a projecting stud arranged to fit into said grooved bracket, and a rotary lock in said front door having an operative connection with said locking bar.

2,639,962
PORTABLE MUSIC STAND
Morris Ackerman, Chevy Chase, Md., assignor of one-fifth to John J. White, Washington, D. C.
Application July 7, 1949, Serial No. 103,363
2 Claims. (Cl. 312—233)



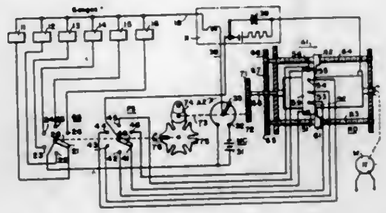
1. A combination sheet music stand and carrying case consisting of: a rectangular sheet music containing case; a pair of floor engaging supports pivotally connected to the end walls of said case adjacent to the upper edges of said walls; a cover pivotally connected to the front wall of said case adjacent to the upper edge of said front wall; means on said cover so disposed as to engage said supports.

2,639,963
SECONDARY EMITTER AND METHOD OF MANUFACTURE
Harold Jacobs, St. Albans, and George Hees and Bernard Wolk, Woodside, N. Y., assignors to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application April 5, 1948, Serial No. 19,004
19 Claims. (Cl. 316—19)



1. A secondary electron emissive electrode suitable for use in electron discharge devices upon being mounted therein and subjected to heat treatment comprising a base metal, a barrier layer of relatively inert metal selected from the group consisting of rhodium, platinum, silver, gold and copper and a bulk coating of an alkali metal carbonate.

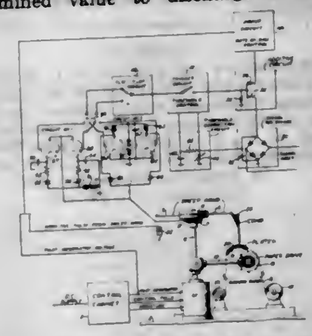
2,639,964
MULTIPLE DIAGRAM-FRAME RECORDER
George Keinath, Larchmont, N. Y.
Application October 10, 1949, Serial No. 120,465
14 Claims. (Cl. 346—33)



1. A multiple diagram recording apparatus of the scanning type, comprising a measuring circuit having gauge means responsive to a physical quantity, a cyclically operable circuit member for varying a circuit condition, and relay means responsive to a given value of said condition occurring at a cycle moment dependent upon said quantity; a recording device having a drum accommodating on its peripheral surface an endless chart and having a stylus assembly with a plurality of mutually insulated styli rigidly interconnected and angularly spaced from each other about said drum, said drum and said assembly being capable of revolving and translating scanning movement relative to each other; selector switch means having bank contacts connected with said respective styli and having a selector contact for sequentially connecting said styli, one at a time, with said relay means; and drive means connected with said circuit member and said device and said switch means for operating them in a fixed time relation to each other for causing said styli to produce respective diagram points in a repetitive sequence.

2,639,965
RECORDING SYSTEM
Arthur L. Holcomb, Tarzana, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 11, 1952, Serial No. 275,951
7 Claims. (Cl. 346—33)

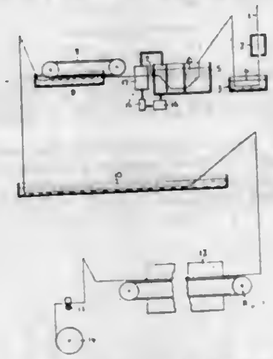
2. Recording apparatus including a framework supporting an electrosensitive recording surface, a plurality of insulated conductors supported by said framework in alignment across the width of said surface, each conductor having one end adjacent to said surface, a rotatable distributor having a plurality of radially projecting conductive arms sweeping over the free ends of said conductors, a motor mounted on said framework and driving said distributor at constant speed, a generator of recurrent voltage waves controlled by said motor to linearly vary during the sweep of an arm over said conductors, summing means for combining said recurrent waves with the signal voltage wave to be recorded, and impulse generating means connected to said arms and energized when said combined waves exceed a predetermined value to discharge a current



through one of said arms, the adjacent conductor, and the recording surface.

CHEMICAL

2,639,966
PROCESS FOR COATING COTTON FABRICS
William R. Stanton, Penn, Wolverhampton, England, assignor to Textuff Limited, London, England, a British company
Application October 18, 1950, Serial No. 190,688
In Great Britain January 18, 1949
4 Claims. (Cl. 8—18)



3. A process for coating a cotton fabric with cellulose which comprises treating the fabric with live steam in order to remove absorbed air in the fabric, passing the steamed fabric through an aqueous bath containing a wetting agent suitable for wetting out cotton and at least one water-soluble direct cotton dyestuff substantive to the material of the fabric, so that the fabric is uniformly wetted out and dyed in the bath, passing the wetted dyed fabric through a viscose bath containing at least one pigment, the dyestuffs and the pigments being so selected that the cellulose coating has the same colour as the dyed fabric, treating the viscose-coated fabric with a coagulating agent, and, during the coating operation, continuously withdrawing part of the viscose bath, passing it through at least one filter to remove the fibrils of cotton in the viscose and continuously returning the filtered viscose to the coating bath.

2,639,967
DELIMING HIDES WITH CITRIC ACID FERMENTATION LIQUOR
Hermann Rudy, Heidelberg, Germany, assignor to Joh. A. Benckiser, G. m. b. H., Chemische Fabrik, Ludwigshafen (Rhine), Germany
No Drawing. Application September 19, 1951, Serial No. 247,370. In Germany April 6, 1950
4 Claims. (Cl. 8—94.17)

1. A process for deliming hides and skins which comprises contacting the hides in the limed condition with a solution containing approximately 0.3% to 2.0% of citric acid fermentation liquor.

2,639,968
TANNING AGENTS AND METHOD OF PREPARATION
William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
No Drawing. Application July 25, 1950, Serial No. 175,887
8 Claims. (Cl. 8—94.31)

8. A tanning composition comprising an oxidized, chlorinated alkali-lignin having a chlorine content of from 15% to 30% and an oxygen content of from about 28% to about 24% and at least 10% basis on its dry weight of sodium sulfite.

2,639,969
METHOD OF PREPARING A DYE-RECEPTIVE SYNTHETIC FIBER
George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware
No Drawing. Application October 22, 1949, Serial No. 123,091
6 Claims. (Cl. 18—54)

1. A method of preparing a dye-receptive fiber, which comprises preparing a solution of a copolymer of 75 to 98% acrylonitrile and two to 25% of a vinyl ester of alpha-chloroacetic acid, extruding the solution into a medium capable of extracting the solvent, and reacting the resulting finished fiber by treating the fiber with ammonia for a period of one minute to one hour at a tem-

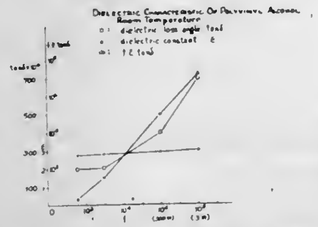
perature in the range of 50° to 120° C., and continuing the treatment until a dye-receptive fiber is produced.

2,639,970

TREATMENT OF POLYVINYL ALCOHOL FIBERS BY DIELECTRIC HEATING

Tsukumo Tomonari, Osaka, Japan, assignor of one-fourth to Omni Products Corporation, New York, N. Y., a corporation of New York

Application April 8, 1950, Serial No. 154,874
In Japan December 10, 1949
2 Claims. (Cl. 18—54)



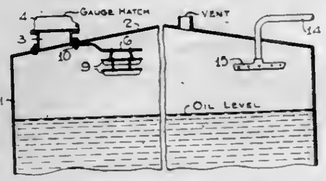
1. A method of preparing water resistant polyvinyl alcohol fibers comprising the steps of extruding an aqueous solution of polyvinyl alcohol through the orifices of a spinneret into a coagulating salt solution to form a tow of polyvinyl alcohol filaments, heating said tow of filaments by means of a hot gaseous medium, and subjecting said tow of heated filaments, while still containing adhered thereto salt from said solution, for a short period of time to a high frequency field of a wave length of the order of magnitude of about 20 m.

2,639,971

INHIBITING STORAGE TANK CORROSION

Alvin C. Broyles, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 29, 1949, Serial No. 73,647
5 Claims. (Cl. 21—2.5)



1. A method for minimizing corrosion in a metal vessel which has a vapor space and carries a material evolving acidic vapors which comprises maintaining in said vapor space a volatile nitroparaffin selected from the class consisting of nitromethane, nitroethane, and nitropropane.

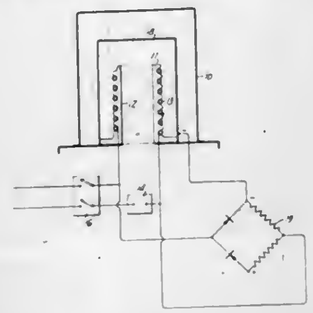
2,639,972

ION CONTROLLER

William Wesley Hicks, San Francisco, Calif., assignor to Ionics, Inc., San Francisco, Calif., a corporation of California

Application June 19, 1950, Serial No. 169,052
5 Claims. (Cl. 21—53)

1. In a device for controlling the light negative ion concentration in a room in atmospheric air at atmospheric pressure, means for producing ions of both signs in a predetermined zone in atmosphere, a grid, means for supplying an intermittent charge to said grid for selectively collecting at atmospheric pressure ions of the sign opposite to the sign of the grid, and means for passing a stream of air along a definite path first through said zone and then through said



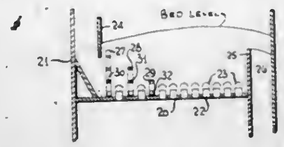
grid to carry a substantial number of said ions to said grid, whereby ions of the same sign as the grid will be readily carried therethrough when said grid is not charged and the ions of the sign opposite to the sign of the grid will be collected by said grid when said grid is charged, said grid being positioned to extend across the said path of said stream of air.

2,639,973

METHOD OF AND APPARATUS FOR IMPROVING GAS DISTRIBUTION IN BUBBLE-CAP TOWER OPERATING ON FLUIDIZED SOLIDS

Robert J. Fritz, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 16, 1950, Serial No. 201,076
5 Claims. (Cl. 23—1)



1. In an operation wherein downflowing fluidized solids countercurrently contact upflowing gases in a series of superimposed contact chambers in a contacting vessel, wherein said chambers are separated by means of bubble cap plates through which upflowing vapors pass, wherein a dense phase of fluidized solids flow across the top of each plate and wherein said fluidized solids pass from the dense phase of one plate to the dense phase of a lower plate by means of a downcomer, the improvement which comprises passing upflowing vapors from a lower chamber into the dense phase of an upper plate at a plurality of spaced distances above the bubble caps of said upper plate in the vicinity of the downcomer from a chamber above said upper plate.

2,639,974

METHOD OF SEPARATING URANIUM FROM ITS ORES

Alvin H. A. Ross, Richard H. Farmer, and Archie G. W. Lamont, Port Hope, Ontario, Canada

No Drawing. Application March 29, 1951, Serial No. 218,256. In Canada April 1, 1950
10 Claims. (Cl. 23—14.5)

1. A method for the production from uranium ore concentrates of a slag soluble in acid and carrying a high proportion of the uranium, consisting in the fusion with said concentrates of lime and a reducing agent.

2,639,975

PROCESSES FOR THE PREPARATION OF WHITE ZINC OXIDE, STARTING FROM CARBONATED ZINC ORES

Frederic Arthur Muller, Coppet, Switzerland, and Raoul Saffores, Paris, France, assignors to Carbonisation et Exploitations Forestières S. A. (C. E. F.), Geneva, Switzerland, a corporation of Switzerland

No Drawing. Application April 18, 1949, Serial No. 88,234. In Switzerland April 26, 1948
6 Claims. (Cl. 23—147)

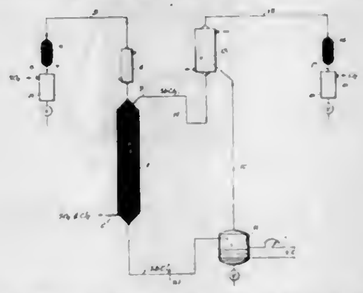
1. In a process for the preparation of white zinc oxide starting from carbonated zinc ores, the steps of treating the ores with a water solution of ammonia alone which dissolves the zinc carbonate and also carries in solution or suspension impurities derived from the ore including coloring matter, filtering to separate the solution from the gangue, adding to the filtered solution a soluble alkali earth metal salt for precipitating a carbonate of said metal, whereby said precipitate carries with it by absorption at least the greater part of the coloring matter of the solution, separating the mother liquor from the precipitated carbonate and materials associated therewith, expelling the ammonia from the mother liquor to precipitate zinc hydroxide and transforming the latter into zinc oxide.

2,639,976

SEPARATION OF SULFUR DIOXIDE AND CHLORINE WITH ANTIMONY TRICHLORIDE

Kenneth W. Guebert, Freeport, Tex., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application April 11, 1952, Serial No. 281,760
8 Claims. (Cl. 23—178)



1. A method of separating chlorine from a substantially anhydrous gaseous mixture consisting essentially of chlorine and sulfur dioxide which comprises contacting the mixture with substantially anhydrous antimony trichloride at a temperature at which chlorine will react therewith, and recovering purified gas consisting essentially of sulfur dioxide.

2,639,977

CHEMICAL PROCESS

John W. Churchill, Kenmore, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application November 15, 1951, Serial No. 256,614
5 Claims. (Cl. 23—207)

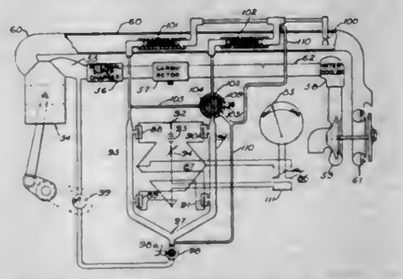
5. In the azo-hydrazo process for manufacturing hydrogen peroxide wherein a solution of an aromatic azo compound in an organic solvent is reduced by treatment with sodium amalgam and water to form the corresponding hydrazo compound and caustic soda, the reduced oil is separated from the aqueous caustic and oxidized by treatment with an oxygen bearing gas, the improvement which comprises contacting the reduced oil before the oxidation step with a solid reactant comprising a mixture of sodium bicarbonate and sodium carbonate present in an amount at least sufficient to combine with any aqueous caustic present in the oil in the form of finely dispersed droplets and separating the reduced oil from the solid reactant.

2,639,978

GAS ANALYZER AND METHOD OF USE

Wladimir M. Zaikowsky, Pasadena, Calif. assignor to Nina D. Zaikowsky

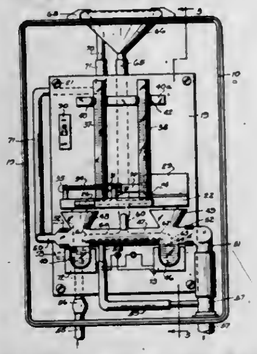
Original application March 1, 1943, Serial No. 477,675. Divided and this application May 27, 1946, Serial No. 672,472
13 Claims. (Cl. 23—232)



1. In a method of determining the ratio of a fuel and air mixture being supplied to a combustion device, the steps which comprise: forming a first stream of exhaust gas exhausted from said device; treating said first stream of exhaust gas with an oxidizing agent which will alter the thermal-conductivity of such exhaust gas only if said mixture is rich, the thermal-conductivity of said first stream thereby decreasing with the fuel-air ratio; forming a second stream of exhaust gas exhausted from said device; treating said second stream of exhaust gas with a reducing agent to alter the thermal-conductivity of such exhaust gas only if said mixture is lean, the thermal-conductivity of said second stream thereby increasing with the fuel-air ratio; and comparing the thermal-conductivities of said two treated streams; whereby theoretical ratio is indicated by equal thermal-conductivities of the streams, a lean mixture is indicated by a departure from equality in one direction, and a rich mixture is indicated by a departure from

equality in the other direction, independently of variations in the absolute thermal-conductivities of the exhaust gas resulting from different fuels.

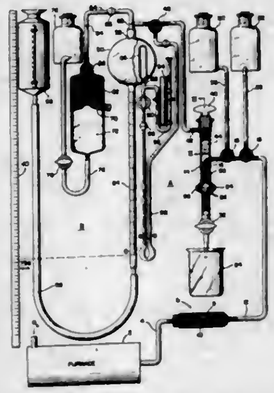
2,639,979
URINALYSIS DEVICE
Wolf Goodman, Houston, Tex., assignor to Southern Detector Corporation, Houston, Tex., a corporation of Texas
Application April 20, 1946, Serial No. 683,742
4 Claims. (Cl. 23—253)



1. A urine testing device including, a casing, a pair of test receptacles within the casing each having an open upper end for receiving a specimen of urine to be tested, a pair of chemical tablet containers one for each receptacle mounted above the receptacles and having chemical tablets therein, an ejector mechanism interposed between the outlet end of each container and the receptacle associated with said container, said ejector mechanism including means for delivering one tablet from each container into the open upper end of its associated receptacle upon each operation of said ejector mechanism, actuating means within the casing connected with each ejector mechanism for operating the same, heating means adjacent each receptacle for heating the contents of the receptacle, control means for said heating means for operating said heating means to heat the contents of the receptacles subsequently to the delivering of a chemical tablet to each receptacle by the ejector mechanism, whereby the specimen within the receptacles is subjected to test in accordance with the chemical within said receptacles, said pair of test receptacles being spaced from each other in the same horizontal plane, a tubular connection extending between the receptacles and communicating with the receptacles intermediate the upper and lower ends of the receptacles, whereby the connection establishes communication between the receptacles and also whereby the receptacles and connection form a single unitary structure, and means within the casing for detachably mounting said unitary structure within the casing to facilitate its removal for cleaning purposes.

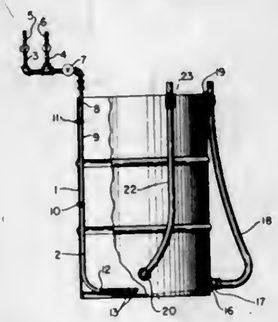
2,639,980
APPARATUS FOR DETERMINING CARBON AND SULFUR
Charles B. Francis, Pittsburgh, Pa.
Application February 8, 1950, Serial No. 143,054
4 Claims. (Cl. 23—254)

1. Apparatus for measuring the volume of gases under constant conditions of temperature and pressure comprising a gas burette, a liquid containing leveling bottle connected to the bottom of the burette, a reservoir connected to the top of said burette, a gas containing chamber enclosed in said reservoir, a manometer tube having one leg connected to said chamber, a connection



between the second leg of said manometer tube and the top of said reservoir, a stop cock in said last named connection, said stop cock having an outlet to the atmosphere, and a second manometer tube connected to the first named manometer tube at a point adjacent said chamber.

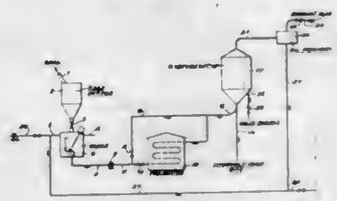
2,639,981
APPARATUS FOR MIXING HYPOCHLORITE SOLUTIONS
Ralph L. Carr, Jackson Heights, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
Application May 23, 1950, Serial No. 163,604
3 Claims. (Cl. 23—271)



1. An apparatus for preparing hypochlorite solutions comprising a container capable of holding liquids, a draw-off outlet in the side wall of the container near the bottom thereof, a second draw-off outlet located at a point vertically higher on the side wall than the first draw-off, communicating means connected to each draw-off outlet to permit a withdrawal of the contents of the container, means for controlling such withdrawal, a sparger tube mounted adjacent the bottom of said container and extending from a

point at the periphery of said container to the middle portion thereof, said sparger tube having an end tip positioned at said middle portion; said sparger tube having a plurality of orifices along one side thereof, the orifices of the sparger tube at the end portion near the periphery of the container and at the end portion near said end tip being inclined downwardly at a predetermined angle toward the bottom of said container and forwardly at a predetermined angle toward the sparger tube tip, the orifices at the middle portion of said sparger tube being inclined downwardly toward the bottom of said container; and fluid supply means connected to said sparger tube for conducting a fluid thereto for passage through said orifices to create and maintain a swirling motion in fluid in said container.

2,639,982
PRODUCTION OF FUEL GAS FROM CARBONACEOUS SOLIDS
John C. Kalbach, New York, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application April 30, 1949, Serial No. 90,645
6 Claims. (Cl. 48—197)



1. In a process for the hydrogenation of a solid carbonaceous material at an elevated temperature and pressure, the improvement which comprises forming a slurry of said solid carbonaceous material in particle form with a liquid hydrocarbon which is substantially completely vaporizable under reaction conditions, passing said slurry into admixture with a hydrogen-rich gas in a hydrogenation zone, vaporizing said liquid hydrocarbon within said hydrogenation zone, maintaining a dense-phase fluidized bed of said carbonaceous material in said hydrogenation zone, passing said hydrocarbon vapors and hydrogen-rich gas upwardly through said bed thereby effecting fluidization and reaction of said carbonaceous material with hydrogen, and recovering from the reaction zone the products of hydrogenation and vaporized liquid hydrocarbon.

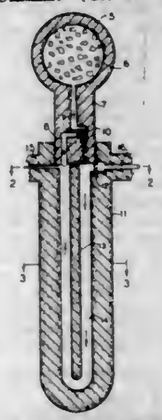
2,639,983
GROWTH PROMOTING PREPARATIONS FOR PLANTS
Haaye Veldstra, Amsterdam, Netherlands, assignor to N. V. Amsterdamsche Chininefabriek, Amsterdam, North Holland, Netherlands, a company of the Netherlands
Application April 30, 1949, Serial No. 90,752
In the Netherlands May 3, 1948
9 Claims. (Cl. 71—2.5)

1. A preparation for promoting plant growth comprising a substance having the capacity to promote plant growth chosen from the group consisting of indole acetic acid, indole butyric acid, naphthyl acetic acid, dichloro-2,4-phenoxy acetic acid and naphthyl butyric acid with which is incorporated a compound chosen from the group consisting of a dialkyl acetic acid, its alkalimetal salts, its ammonium salt, its amide and



its esters such that the total number of carbon atoms of the acid is 10–16.

2,639,984
CONTINUOUS CUPOLA-BESSEMER PROCESS
James Fernando Jordan, Huntington Park, Calif.
Application August 7, 1952, Serial No. 303,059
4 Claims. (Cl. 75—46)



1. In a Bessemer process wherein steel is produced from a molten metal obtained by melting a charge consisting of at least 50% steel scrap in a coke-fired cupola, the improvement, which comprises: melting said charge in contact with a basic slag of a V-ratio above 1.0 within said cupola; and flowing said slag and said metal to a continuous Bessemer process wherein said metal is bessemerized by means of a series of air jets which are spread out along a stream of said metal as said metal stream flows along, under and in contact with said slag, so that said cupola slag acts as the refining slag of said Bessemer process.

2,639,985
BEARING AND STEEL THEREFOR
Karl F. Schauwecker, Franklin Park, Ill., assignor to United States Steel Corporation, a corporation of New Jersey
No Drawing. Continuation of application Serial No. 109,803, August 11, 1949. This application April 30, 1951, Serial No. 223,830
2 Claims. (Cl. 75—124)

1. A bearing steel characterized by good forgeability and by high hardenability and retention

of hardness after quenching from above its Ae_1 point and thereafter subjected to prolonged heating at 550° F., said steel containing from about .95 to 1.15% carbon, .25 to .60% manganese, .35% maximum nickel, 1.35 to 1.65% chromium, .35% maximum copper, .75 to 1.25% aluminum and .20 to .50% silicon, the total of aluminum plus silicon being between about 1.00 and 1.75%, the balance being iron and residual amounts of other elements.

2,639,986

METHOD IN SULFITE PULPING FOR OBTAINING CONCENTRATED WASTE LIQUOR

Gunnar Kyrklund, Kuusankoski, Finland, assignor to Kymin Osakeyhtio-Kymmene Aktiebolag, Kuusankoski, Finland, a corporation of Finland

No Drawing. Application September 3, 1947, Serial No. 772,019. In Sweden July 20, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires July 20, 1960
3 Claims. (Cl. 92—11)

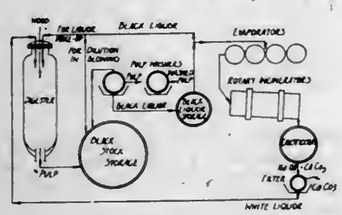
1. A two stage method for the production of sulfite pulp, including a pre-cook and a final cook, from resinous wood, for obtaining a higher concentration of organic materials in the waste liquor than in one-stage cooking, which includes, preparing the cooking acid for the pre-cook by withdrawing liquor from the final cook of a preceding cook, mixing the requisite amount of a suitable base to said liquor and fortifying such liquor with SO_2 to create the required strength, digesting the majority of cellulose materials of said wood by precooking the same in fortified liquor, withdrawing waste liquor from said precook after completion of the precook, limiting the quantity of said waste liquor so withdrawn in order to maintain the concentration of waste liquor pushed out of said final cook approximately the same as that of the waste liquor from an ordinary one-stage cook, introducing new cooking acid, carrying out the final cook in said new cooking acid, and using said waste liquor from said final cook in forming the cooking liquor for a subsequent pre-cook to obtain a higher concentration of organic materials in the waste liquor from said subsequent precook.

2,639,987

TWO-STAGE PULPING PROCESS

Arthur Raymond Sloman, Burnie, Tasmania, Australia, assignor to Associated Pulp and Paper Mills Limited, Melbourne, Victoria, Australia, a corporation of Victoria

Application June 15, 1948, Serial No. 33,035
In Australia July 9, 1947
1 Claim. (Cl. 92—13)



A two-stage alkaline pulping process for the treatment of non-coniferous woods for the production of paper pulp consisting essentially in introducing a charge of wood chips into a digester, adding to the digester black liquor from a previous second stage cooking treatment in such quantity as to provide between 30 and 50 gallons per 100 pounds oven-dry wood, the alkalinity of the black liquor being equivalent to between 15 and 35 grams of active caustic soda per liter, heating the charge to a temperature between 160° C. and 175° C. with the digester closed except when gassing to remove non-condensable gases, maintaining the charge in such temperature range for a period between 6 and 30 minutes sufficient to substantially neutralize the natural acidity of the wood while neutralizing 80% to 100% of the caustic alkalinity of said black liquor, discharging the substantially exhausted liquor from the digester, then without any intervening treatment of the wood adding to the digester a digestion liquor consisting of white liquor and black liquor, the quantity and alkali concentration of the white liquor being such as to provide an effective alkali charge (expressed as NaOH) of 15 to 20 pounds per 100 pounds oven-dry wood and the total quantity of the digestion liquor added being between 15 and 35 gallons per 100 pounds oven-dry wood, original charge, heating the charge to a temperature between 160° C. and 175° C. with the digester closed except when gassing to remove non-condensable gases, maintaining the charge at a temperature in said range for a period of one to five hours, discharging the pulp and liquor from the digester, and recovering the black liquor for use in a subsequent first-stage treatment.

2,639,988

PRODUCTION OF TEXTILE FIBERS FROM BAST FIBER MATERIAL BY ALKALINE DIGESTION

Jacob Johan Zeehuisen, Rijswijk, Netherlands

No Drawing. Application December 12, 1945, Serial No. 634,614. In the Netherlands March 2, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires March 2, 1962
7 Claims. (Cl. 92—14)

1. A process for converting unretted bast fibrous material into dry non-cohesive fibres ready for hackling or spinning, consisting of the steps of: subjecting said unretted fibrous material to the action of an aqueous alkali solution at a temperature between about 80° C. and the boiling temperature of said alkali solution to remove woody constituents from said bast fibrous material, said alkali solution having a concentration of between about 5% and 15%, removing said alkali solution from the resulting fibers by washing said fibres with water, extracting the water from the resulting moist washed fibres with a water miscible organic solvent selected from the group consisting of methanol, ethanol, propanol, acetone and diacetone alcohol, and removing said solvent from the resulting fibers, to thereby produce dry non-cohesive fibers.

2,639,989

TREATMENT OF CELLULOSIC PULPS

James H. Conover, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application April 25, 1946, Serial No. 664,995
7 Claims. (Cl. 92—21)

1. Process of making fiber board which comprises suspending ground wood fibers in water to form a fiber furnish, mechanically working said furnish to hydrate the fibers therein, adding

enough lime, within the range of from about 1% to about 24% by weight of the dry fibers, to increase the freeness of the furnish by from about 65 cc. to about 175 cc. over its original freeness, forming the resulting furnish into a wet mat, compressing the latter to express free water therefrom, and drying the mat.

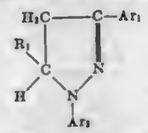
2,639,990

PROCESS FOR IMPROVING THE WHITENESS OR COLOR OF MATERIALS AND PRODUCTS RESULTING THEREFROM

John David Kendall and George Frank Duffin, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application May 29, 1950, Serial No. 165,116. In Great Britain June 3, 1949
13 Claims. (Cl. 95—7)

9. Photographic light-sensitive materials having adsorbed thereto 0.01 to 1% by weight of a fluorescent compound of the general formula:



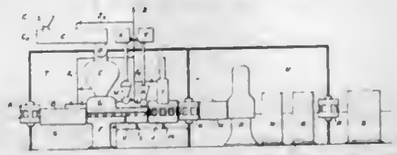
wherein R_1 is selected from the class consisting of the hydrogen atom, alkyl, unsubstituted phenyl and phenyl containing alkyl, alkoxy, chloro and sulphonic substituents, Ar_1 is selected from the class consisting of unsubstituted phenyl and phenyl containing halogen, alkyl, alkoxy and phenoxy substituents, and Ar_2 is selected from the class consisting of unsubstituted phenyl and phenyl containing halogen, alkyl, sulphonic and acetylamino substituents.

2,639,991

CANNING PROCESS

Charles Olin Ball, New Brunswick, N. J.

Application February 16, 1951, Serial No. 211,235
22 Claims. (Cl. 99—182)



1. A canning process for a low-acid food product which comprises heating of the food product to a maximum sterilization temperature for a relatively short period of time under a superatmospheric pressure great enough to prevent boiling of the product liquid, cooling the product from such maximum temperature to a filling temperature above the boiling point of the product liquid at atmospheric pressure, while maintaining the product under superatmospheric conditions of pressure sufficient to inhibit boiling of the product liquid, filling the product while maintaining a superatmospheric condition of pressure about the product into previously sterilized containers, causing steam to be generated within the container and during the emission of steam applying a previously sterilized cover loosely to the filled container, and permanently and securely sealing the cover to the container in an atmosphere having a pressure value lower than the value of the pressure existing about the product at the time of the filling of the container to cause the emission of steam from under the loosely applied cover to continue until the container has been completely sealed.

2,639,992

STABILIZED PULVERULENT COMPOSITIONS AND PROCESS OF MANUFACTURE THEREOF

Edwin W. Tillotson, Pittsburgh, Pa., assignor to Garco Products, Inc., Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application July 20, 1950, Serial No. 175,032
6 Claims. (Cl. 106—52)

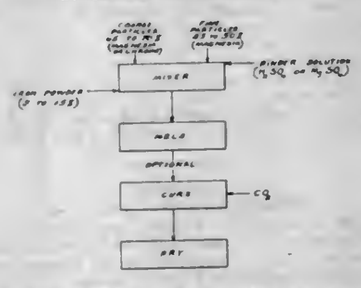
1. A process of stabilizing a pulverulent mixture consisting essentially of finely divided glass and silica which comprises incorporating therewith from 0.75 to 3 per cent by weight of potassium fluosilicate.

2,639,993

BASIC REFRACTORY BRICK AND PROCESS

Russell Pearce Heuer, Villanova, Pa., assignor to General Refractories Company, a corporation of Pennsylvania

Application December 31, 1949, Serial No. 136,354
17 Claims. (Cl. 106—59)



1. A basic refractory brick, unfired and suitable for use in unfired condition, comprising from 45 to 70 percent of coarser refractory particles of the class consisting of magnesia particles between 6 and 35 mesh and chromite particles between 6 and 28 mesh, from 25 to 50 percent of finer refractory particles through 48 mesh of the class consisting of magnesia particles and chromite particles, and from 3 to 15 percent of iron particles through 28 mesh.

2,639,994

PROCESS FOR MANUFACTURING COMPOSITE BOARD

Winfred E. Wilson, Tacoma, Wash.

No Drawing. Application July 26, 1948, Serial No. 40,791
1 Claim. (Cl. 106—163)

A process for manufacturing composite board from particled dried ligneous material which consists in spraying the particled dried ligneous material with diluted hydrochloric acid in an amount such that the acid, as represented in concentrated state, is in the proportion of one-half to two per cent of the total weight of the material and the moisture content of said particled dried ligneous material is brought to about twenty to twenty-five per cent by weight, placing the mixture in a mold and therein subjecting it to a temperature of 275–350° F. to effect liberation of

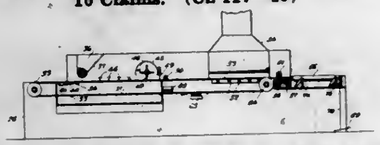
lignin by said acid, and at the same time to a pressure sufficient to compound the material into a finished board.

2,639,995

PROCESS AND APPARATUS FOR PREPARING A PRINTING PLATE

John H. Perry, Jr., Palm Beach, Fla., and Robert C. Graham, Elizabeth, N. J., assignors, by mesne assignments, to John H. Perry, Jr., West Palm Beach, Fla.

Application February 28, 1949, Serial No. 78,818
10 Claims. (Cl. 117—19)



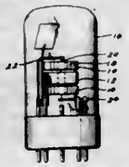
10. In the method of preparing printing plates for use on printing presses, the steps of conveying a printing plate through successive treating zones, applying powder to the plate as it moves under a powder supply mechanism, pressing the powder against the shoulders of type and art work in said plate by engaging said plate by a squeegee, removing excess powder from the plate as it moves through the apparatus, holding the plate from vibration during the pressing step, semi-liquefying said powder by heating, cooling the powder as so semi-liquified, thereafter moving said plate at an increased speed beyond said heating means, cooling said plate as it issues from the increased speed area, and cleaning the conveyor preparatory to receiving the next plate.

2,639,996

FILAMENTARY CATHODE

Harold Jacobs, St. Albans, and George Hees, Woodside, N. Y., assignors to Sylvania Electric Products Inc., a corporation of Massachusetts

Application March 17, 1949, Serial No. 81,854
5 Claims. (Cl. 117—33.26)



1. A filamentary cathode capable of giving copious thermionic emission comprising a core of an alloy selected from the group consisting of nickel aluminum containing approximately 2% aluminum and cobalt aluminum containing approximately 1% aluminum with an electron emissive oxide coating containing 2 to 5% nickel oxide.

2,639,997

METALLIZATION OF NONMETALLIC SURFACES

Cyril Francis Drake, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 22, 1948, Serial No. 22,700. In Great Britain April 24, 1947
7 Claims. (Cl. 117—35)

1. Process for producing an adherent coating of metallic silver upon a surface of an article formed of a non-metallic substance chosen from the class consisting of glass, mica, quartz, and synthetic resins having polar groups present in the molecule, that comprises applying, then removing, a solution of stannous chloride in hydrochloric acid to the surface to be coated, then treating the surface with an ammoniacal solution of silver nitrate containing an anionic surface active agent in the presence of a reducing agent.

2,639,998

PROCESS FOR APPLYING INK TO ETHYLENE POLYMER SURFACES

Albert A. Pavlic, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 20, 1950, Serial No. 150,826
2 Claims. (Cl. 117—38)

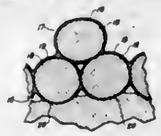
2. In a process for printing the surface of a solid polymer of ethylene, the steps which comprise impressing an ink on said surface, the ink constituting a 40% emulsion containing 80 parts by weight of a chlorosulfonated polymer of ethylene and 20 parts by weight of a liquid phenolic resin which has been diluted with water to a solids content of about 20%, the ink being pigmented with about 40 parts by weight of titanium dioxide and thereafter heating the impressed surface of the ethylene polymer to a temperature of about 65° C. until the ink is fixed to the surface.

2,639,999

METHOD OF FORMING A TRANSPARENT REFLECTION REDUCING COATING ON GLASS AND THE ARTICLE RESULTING THEREFROM

Stuart McLean, Willoughby Township, Lake County, Ohio, assignor to General Electric Company, a corporation of New York

Application October 29, 1948, Serial No. 124,449
8 Claims. (Cl. 117—71)



3. The method of forming a transparent reflection-reducing coating on the surface of a glass article having a refractive index greater than unity which method comprises, coating the said surface of the article with a suspension comprising transparent colloidal silica particles dispersed in a liquid dispersion medium having in solution therewith from approximately a half to a few per cent by weight of a metallic salt decomposable into free metal at a temperature below the softening temperature of the glass article, the said metal being absorbable into the glass of the article when the latter is in a heated condition at a temperature just below its softening point, and then heating the coated article at a temperature of from about 500° to 700° C., which is above the decomposition temperature of the said metallic salt but below the softening temperature of the glass article for a sufficient time to decompose the said metallic salt into free metal and cause absorption of the latter into the said surface of the glass article at the areas where the silica particles contact the surface of the glass whereby to attach the said colloidal silica particles to said surface.

2,640,000

FLAMEPROOFING METHOD AND PRODUCT

Leslie P. Seyb, Painesville, and Clifford A. Neros, Willoughby, Ohio, assignors to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application June 7, 1947, Serial No. 753,358
8 Claims. (Cl. 117—76)

1. A fibrous cellulosic material of substantial flame-retardant properties comprising, in combination, a fibrous cellulosic base, a non-halogenated inorganic, flame-retardant substance deposited thereon, a resinous, organic, non-halogenated, heat-decomposable, film-forming substance overlaying said inorganic flame-retardant substance deposited upon said cellulosic base, and a highly chlorinated organic flame-retardant substance having a low vapor pressure, capable of releasing substantial amounts of hydrogen chloride at flame temperatures, deposited upon said film-forming substance so as to be maintained out of contact with said cellulosic base and said inorganic flame-retardant substance by means of said film-forming substance.

2,640,001

METHOD FOR BRIGHT METAL PLATING

Erith T. Clayton, Baltimore, Md., assignor, by mesne assignments, to The Tainton Company, Baltimore, Md., a corporation of Maryland

No Drawing. Application January 21, 1948, Serial No. 3,537
3 Claims. (Cl. 117—109)

1. A method of mechanically plating metal articles comprising intermixing metallic powder particles with an organic liquid containing dissolved therein a percentage of lubricating material selected from the group consisting of vegetable seed oils, marine oils, and fatty acids derived from organic oils, the metallic powder being in proportion between one-fourth and seven times the liquid by weight, and tumbling said mixture of said articles and powder particles and liquid at a temperature between 50° and 150° F. to impact the particles onto the surface of said articles into a solid metallic coating thereon.

2,640,002

CLADDING METAL

Erith T. Clayton, Baltimore, Md., assignor to The Tainton Company, Baltimore, Md., a corporation of Maryland

No Drawing. Application April 17, 1951, Serial No. 221,535
12 Claims. (Cl. 117—109)

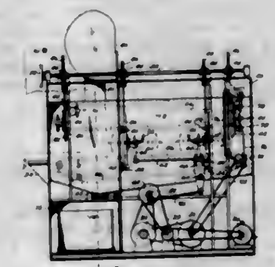
1. A method of cladding metal articles with a metal selected from the group consisting of tin, lead, cadmium, zinc, aluminum, magnesium, copper, silver, gold and alloys thereof, which method comprises mixing said articles with pieces of impacting material in a liquid carrier containing particles of said selected metal in amount sufficient to provide a desired thickness of cladding metal on said articles and in proportion ranging from 1/480 to 1/5 of the combined weight of said articles and impacting material, said carrier liquid being in amount between .143 and 100 of the weight of the metal dust particles and including dispersed therein an organic surface-active, film-forming compound unreactive with said carrier liquid and selected from the group consisting of the fatty acids of 6 to 22 carbon atoms and the amines and amides of said acids, said compounds being present in amount in the range of the order of .7 to .001 of the carrier liquid by weight and at least sufficient to substantially cover said articles and to enclose and protect the powder particle surfaces with molecularly thin films, forcibly impacting and rubbing said film-coated dust particles in admixture in said carrier liquid onto the surfaces of said articles to flatten said particles and rupture said films and bring the particles in metal to metal contact with the said surfaces and with each other, the temperature of the treating carrier liquid being at least equal to the minimum temperature of recrystallization of the said metal particles to clad said surfaces with adherent surface layers of said flattened particles with entrapment of residual inclusions of said film-forming compound retained in random distribution among said flattened particles of said cladding layer, and continuing said impacting and rubbing of said film-coated particles onto said adherent surface layers to build up said surface layers to desired thickness on said articles.

2,640,003

METHOD OF CLEANING CHOCOLATE MOLDS

Axel Christian Steenberg, Copenhagen, Denmark

Application July 18, 1947, Serial No. 761,936
In Germany July 22, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 22, 1959
1 Claim. (Cl. 134—21)



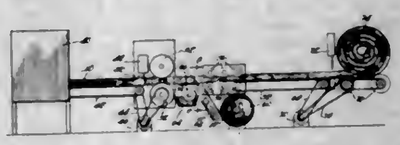
A method of cleaning chocolate moulds comprising projecting jets of dry steam against the surface of the said moulds in a confined space and simultaneously removing the steam used together with the impurities embodied therein from the space surrounding the moulds by suction.

2,640,004

STRIP INSULATION AND METHOD OF MANUFACTURE

Willard G. Van Saun, Janesville, Wis., assignor to Janesville Cotton Mills, Janesville, Wis., a corporation of Wisconsin

Application August 16, 1949, Serial No. 110,510
10 Claims. (Cl. 154—119)



6. The method of making an insulation structure which comprises forming an elongated batt

of fibrous material, stitching the fibers of the batt together longitudinally thereof and at laterally spaced intervals, applying a backing sheet to the batt material with adhesive ribs spaced in accordance with the spacing of the stitching adhesively securing the sheet to the batt with the adhesive ribs directly engaging the stitching and batt material coincident therewith whereby the sheet constitutes a moisture barrier for the batt and interlocking means for the stitching.

2,640,005

SUCCINHYDRAZIDES

Waldo B. Ligett, Berkley, Rex D. Closson, Detroit, and Calvin N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 28, 1950, Serial No. 192,806

9 Claims. (Cl. 167—33)

1. As new compositions of matter, 1, 2, 4, 5-tetrahydropyridazine-3,6-diones in which at least one of the methylene groups is substituted with a member selected from the class consisting of lower alkyl, lower alkenyl and halogen radicals.

7. A process for the manufacture of 1,2,4-5-tetrahydropyridazine-3,6-dione in which at least one of the methylene groups is substituted with a member selected from the group consisting of lower alkyl, lower alkenyl and halogen radicals which comprises reacting a member selected from the group consisting of hydrazine and hydrazine hydrate with a succinic anhydride wherein at least one of the methylene groups of said succinic anhydride is substituted with a member selected from the group consisting of lower alkyl, lower alkenyl and halogen radicals.

2,640,006

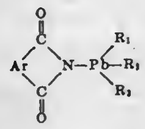
N-ORGANOLEAD-PHTHALIMIDES AS FUNGICIDES

Waldo B. Ligett, Berkley, Rex D. Closson, Detroit, and Calvin N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 28, 1950, Serial No. 192,809

3 Claims. (Cl. 167—33)

1. A fungicidal composition consisting essentially of a material having the general formula



wherein Ar is selected from the group consisting of o-phenylene and o-naphthylene and substituted derivatives thereof wherein said substituents are selected from the group consisting of halogen, nitro, amino, mono, alkylamino, dialkylamino, lower alkoxy, carbalkoxy, mercapto, trichloromethylthio, lower alkyl mercaptan and aryl mercaptan groups and each of R_1, R_2 and R_3 is a hydrocarbon radical selected from the group consisting of alkyl radicals containing 1 to 12 carbon atoms, phenyl radicals, alkyl substituted phenyl radicals and naphthyl radicals, a substantially greater amount of a fungicidally inert carrier therefor, and a surface active agent.

2,640,007

PRODUCTION OF ALKALOIDS BY CLITOCYBE SUBILLUDENS

Perry A. Foote and Werner M. Lauter, Gainesville, Fla., and Ross M. Baxter, Toronto, Ontario, Canada, assignors to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 4, 1951, Serial No. 219,304

9 Claims. (Cl. 195—27)

1. The process of making oxytocic alkaloids which comprises cultivating the mycelium of *Clitocybe subilludens* in a nutrient medium, and extracting oxytocic alkaloids from the mycelium.

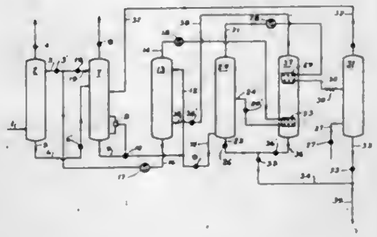
2,640,008

ABSORPTION METHOD FOR SEPARATING HYDROCARBON GASES

Ronald W. Heath, Long Beach, Calif., assignor to Signal Oil and Gas Company, Los Angeles, Calif., a corporation of Delaware

Application July 23, 1949, Serial No. 106,364

15 Claims. (Cl. 196—8)



1. A process for separation of light liquid hydrocarbons from gases containing the same, which comprises passing such gases into an absorption zone in contact with an absorption oil wherein such liquid hydrocarbons are absorbed by said oil in an absorption zone operating under super-atmospheric pressure, separating fat oil containing such absorbed liquid hydrocarbons from the unabsorbed gases, introducing said fat oil into a steam distillation zone maintained at a sub-atmospheric pressure, vaporizing a portion of the fat oil in the still and thus cooling the oil, removing the hydrocarbon vapors containing steam from the unvaporized residue, compressing the mixed vapors above the pressure at which distillation occurred, heating said mixed vapors by such compression above the temperature of said distillation, cooling said mixed vapors to partially condense the hydrocarbon vapors and to condense water from said mixed vapors at said higher pressure, separating the condensed water from the uncondensed hydrocarbon vapors and further cooling said uncondensed hydrocarbon vapors to condense said vapors, reducing the pressure on said water to substantially the pressure of said distillation and passing said water in indirect heat exchange with the compressed vapors, thus cooling said vapors, vaporizing said water at said lower pressure to form steam, introducing said steam into said distillation zone, and withdrawing the unvaporized oil from said distillation zone and pumping the same to the absorption zone.

2,640,009

TREATMENT OF HYDROCARBONS WITH HYDROGEN

Charles W. Montgomery, Oakmont, and Charles S. Brown, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application December 20, 1949, Serial No. 134,116

11 Claims. (Cl. 196—28)

9. The process which comprises contacting vapors of a hydrocarbon oil and hydrogen with a catalyst composition which has been treated with wet steam at a temperature of about 350° to 550° F. and a pressure sufficient to maintain wet steam and between about 135 and 1000 p. s. i. for a period of at least about ½ hour, said catalyst composition initially comprising a hydrogenating catalyst composited with a solid refractory cracking catalyst.

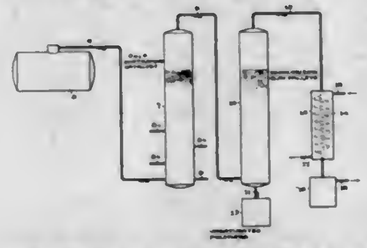
2,640,010

METHOD OF REMOVING SULFUR FROM PETROLEUM HYDROCARBONS

Charles O. Hoover, Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application November 8, 1951, Serial No. 255,341

19 Claims. (Cl. 196—28)



1. The method of removing the major portion of all sulphur compounds contained in petroleum hydrocarbons which comprises oxidizing sulphur of the sulphur compounds to sulphur dioxide by passing the vapor of the hydrocarbon over an oxidation catalyst consisting essentially of a material containing cuprous sulphide in the presence of gaseous oxygen.

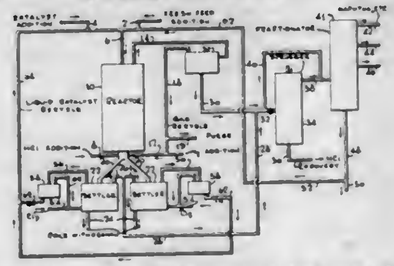
2,640,011

DESULFURIZATION OF HEAVY PETROLEUM OILS

Ralph Burgess Mason and Harold J. Rose, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 17, 1950, Serial No. 196,156

9 Claims. (Cl. 196—30)



1. The process of desulfurizing and upgrading sulfur-containing petroleum residua which comprises contacting said residua feed in a hydrogenation zone with hydrogen in the presence of a catalyst comprising the tetrachloride of a metal selected from the group consisting of tin and titanium, maintaining within said zone, a pressure in the range of 100 to 5000 p. s. i. g. and a temperature in the range of 300°–900° F., and recovering a hydrocarbon product containing substantially less sulfur than said feed.

2,640,012

TREATMENT OF CRACKED HYDROCARBON DISTILLATES

Charles Wankat, Brookfield, and Esbon Y. Titus, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 10, 1951, Serial No. 250,782

4 Claims. (Cl. 196—41)

1. In a process wherein a sour hydrocarbon distillate is sweetened by incorporating therein a phenylene diamine inhibitor, then treated with an alkali metal hydroxide solution to reduce gum formation and the used solution is thereafter separated from the treated distillate, the improvement which comprises separating the used solution into two layers, separately withdrawing each of said layers, and reusing the lower layer thereof to treat a hydrocarbon distillate as aforesaid.

2,640,013

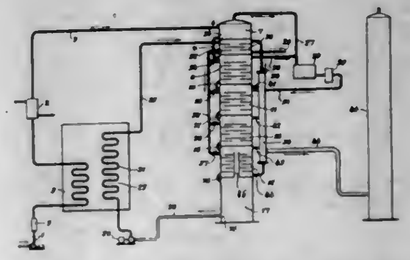
DISTILLATION OF TARS AND LIKE LIQUID HYDROCARBONS

Thomas O. Wilton, Worthing, England; Winifred Louise Wilton and Leonard Vivian Russell, executors of said Thomas O. Wilton, deceased, assignors to Chemical Engineering, Wiltons Limited, Horsham, England, a British company

Application June 7, 1950, Serial No. 166,580

In Great Britain April 30, 1948

7 Claims. (Cl. 196—76)



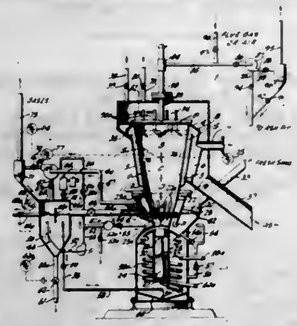
3. A process for the complete distillation down to non-vaporizable residues and fractionation of mixtures of hydrocarbon compounds containing distillable constituents and residues, comprising feeding crude stock to the first of a series of distillation zones, allowing material to flow from each zone to the next and from the last zone to a residue receiver, extracting residue from the receiver, heating it and dividing it into a number of streams, one of which is passed to each of the second, and subsequent distillation zones and therein mixed with the material being distilled so as to heat same, collecting vapors liberated in the distillation zones and fractionating the collected vapors.

2,640,014

OIL-SHALE EDUCTION PROCESS AND APPARATUS

Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application January 31, 1949, Serial No. 73,858
9 Claims. (Cl. 202—6)



1. A process for the recovery of oils and gases from oil-bearing solids such as oil shale which comprises passing said oil-bearing solids into a feeding zone, passing said solids from said feeding zone upwardly through a treating zone containing an eduction zone and a burning zone, contacting said solids in said eduction zone with a hot eduction medium to educt gases and liquids from said solids leaving a carbonaceous solid residue, contacting said residue in said burning zone with an oxygen-containing gas to form said hot education medium and leaving ashes, maintaining an annular layer of cool shale adjacent to said burning zone to protect the walls of the treating zone maintaining said burning zone at a constant position within said treating zone by controlling the rate at which gaseous products of eduction and combustion are withdrawn from said accumulation zone, passing gaseous and liquid products of eduction and products of combustion from said eduction zone into said accumulation zone wherein a level of liquid eduction products is maintained, removing gases and liquids therefrom and passing them to a reservoir zone, separating shale fines from said liquid eduction products forming a clarified liquid product, removing shale fines from said reservoir zone heating a portion of said clarified liquid product, circulating the heated liquid product through said accumulation zone to convey shale fines therefrom to said reservoir zone and removing the remaining portion of clarified liquid product from the system.

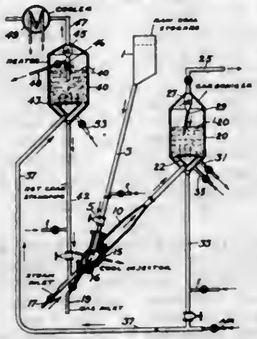
2,640,015

PROCESS OF CARBONIZING COAL

Karl J. Nelson, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 20, 1949, Serial No. 100,231
6 Claims. (Cl. 202—14)

1. In a process for producing volatile products from coal by maintaining the coal in the form of a dense fluidized mass at carbonization temperature in a carbonization zone, said coal having a plastic range at temperatures below the carbonization temperature, the improvement which comprises passing a confined stream of subdivided non-plastic solids suspended in a fluidizing gas at a temperature not lower than the carbonization temperature rapidly through a hot mixing zone, feeding a confined stream of subdivided carbonizing coal particles at a temperature below the plastic range of the coal into a confined injection zone submerged in the aforesaid hot mixing zone, cooling the injection zone to keep the coal contained therein at a temperature below its plastic range, introducing a fluidizing gas into the injection zone, injecting



the resulting coal-in-gas suspension at a velocity adequate to create strong turbulence into the stream of hot non-plastic solids rapidly passing through the mixing zone, maintaining the ratio of non-plastic solids to coal in the mixing zone between 4:1 and 25:1, and passing the resulting hot turbulent mixture of coal particles surrounded by non-plastic solids suspended in a fluidizing gas to the carbonization zone.

2,640,016

MANUFACTURE OF COKE

Samuel W. Martin, Chicago, Ill., assignor to Great Lakes Carbon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 31, 1950, Serial No. 182,634
4 Claims. (Cl. 202—33)

1. A process for manufacturing metallurgical coke which comprises forming an intimate mixture consisting essentially of caking coal at least a major portion of which is of the high volatile type, and five to twenty-five per cent of petroleum coke, the major portion of the particles of said mixture passing a ⅛ inch screen, forming a deep bed of the mixture in a narrow, vertical coking zone, coking the mixture by indirect heat at a temperature of about 982° to 1204° C., said petroleum coke consisting essentially of coke having a volatile content in the range of 14% to about 35% by weight as determined by A. S. T. M. procedure No. D271–48 as modified for peat and lignite, and exclusive of volatile material evolved at temperatures of 400–500° C., and further characterized by forming a dense, hard, agglomerated coke when heated according to said procedure.

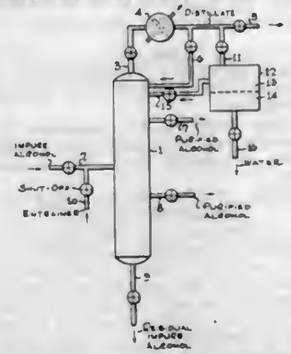
2,640,017

PRODUCTION OF SUBSTANTIALLY PURE AND ANHYDROUS ALCOHOLS BY DISTILLATION

Alvin R. Graff, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 14, 1949, Serial No. 104,693
5 Claims. (Cl. 202—42)

1. In the production of substantially pure and anhydrous alcohol selected from the class consisting of ethanol, isopropanol, and secondary butanol from a crude feed stock containing the alcohol, between 0.5 and 7.8 weight per cent water but a minor fraction of the water contained in the alcohol-water binary azeotrope of the alcohol and containing from between a trace and 0.5 weight per cent of high boiling hydrocarbon impurities, which comprises feeding a stream of said crude alcohol feed stock continuously into an intermediate point of a fractionation zone, continuously distilling overhead from said fractionation zone the water with at least as much of the alcohol as contained in the alcohol-water binary azeotrope in the absence of a water entrainer and in the absence of salt-forming compounds, continuously removing said high-boiling impurities in a residual bottoms product of at least about 99 weight per cent of said alcohol, and continuously removing a major amount of the alcohol as an intermediate side stream from said fractionation zone wherein the said alcohol is a pure anhydrous product.

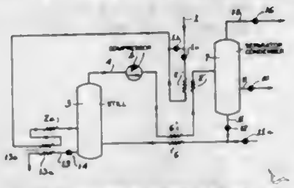


2,640,018

METHOD OF STEAM DISTILLATION

Ronald W. Heath, Long Beach, Calif., assignor to Signal Oil and Gas Company, Los Angeles, Calif., a corporation of Delaware

Application July 25, 1949, Serial No. 106,622
18 Claims. (Cl. 202—46)



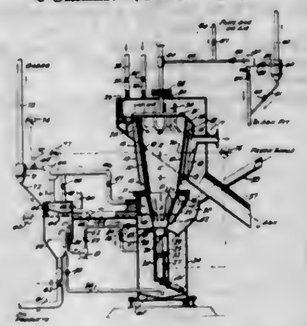
11. A process of steam distillation, which comprises generating steam in a steam generation zone, introducing heated material into a distillation zone, said material being heated sufficiently to supply heat of vaporization of said material in said distillation zone, introducing said steam into the distillation zone, removing mixed vapors containing steam from said distillation zone, compressing said vapors above the pressure of said distillation zone and said steam generation zone, thus heating the mixed vapors by said compression, transferring a portion only of the heat of the compressed vapors to the steam passing to said vaporization zone, separately removing the remaining portion of the heat added by compression to the compressed vapors, further cooling said compressed vapors, condensing the water in said compressed mixed vapors at an elevated pressure higher than said distillation pressure, removing water of condensation, reducing the pressure on said water, and introducing said water into said steam generation zone, whereby the latent heat of vaporization of water vaporized in said steam generation zone is supplied solely by the heat added to the water by said compressed vapors.

2,640,019

OIL-SHALE EDUCTION APPARATUS

Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application June 1, 1948, Serial No. 30,423
6 Claims. (Cl. 202—95)



1. An apparatus for the recovery of oils and gases from oil-bearing solids which comprises a vertical treating kiln, a vertically acting reciprocating feeder and an accumulation chamber communicating with said treating kiln, means for drawing gases downwardly through said kiln, means for removing solids from the upper extremity of said kiln, and mechanical means comprising a scraper section for moving ashes from the top of said kiln into said removal means, a plow section extending below said scraper section deep into the kiln for continuously agitating the solids in the upper portion of said kiln to provide a substantially unimpeded gas flow therethrough, and a radiation cooling section extending above said scraper section, said plow section extending below the level of solids in said kiln, said scraper section extending at least partially below said solids level, and said radiation section extending entirely above said solids level.

2,640,020

FORMATION OF A SURFACE EASILY WETTABLE BY MERCURY

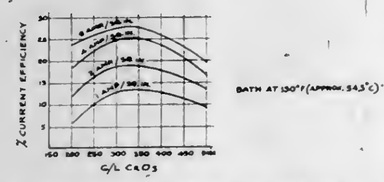
Charles E. Pollard, Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application August 9, 1949, Serial No. 109,420
4 Claims. (Cl. 204—34)

1. The method of forming a liquid mercury contacting surface in an electric contact, whereby a continuously replenishable supply of fresh liquid mercury is made available at the contacting area through which an electric current is to be established and interrupted, which method comprises forming a capillary network in a ferrous metal contact base; electroplating said

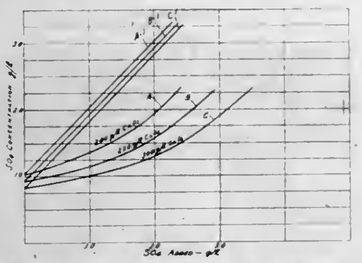
formed base with a metal easily wettable by mercury and not completely soluble in mercury, said metal being selected from the group consisting of platinum, rhodium and nickel, said metal being electroplated in such thickness as to leave said capillary network well defined in the exterior electroplated surface; heat treating said electroplated base to diffuse some of the electroplate into the ferrous metal base to produce a good bond while leaving said capillary network well defined in said exterior electroplated surface; and immersing said electroplated and diffused contact base having said well defined capillary network in its exterior surface into liquid mercury, to fill said network and to continuously replenish said contacting area with liquid mercury.

2,640,021
COMPOSITION, BATH, AND PROCESS FOR CHROMIUM PLATING
Frank Passal, Detroit, Mich., assignor to United Chromium, Incorporated, New York, N. Y., a corporation of Delaware
Application November 23, 1949, Serial No. 129,128
14 Claims. (Cl. 204—51)



1. A composition of matter for making up an aqueous chromium plating bath comprising essentially chromic acid, strontium sulphate and potassium silicofluoride, there being about 3 parts by weight of strontium sulphate and about 8 parts by weight potassium silicofluoride to 100 parts by weight chromic acid, said composition when dissolved in water being adapted to produce a solution having a concentration of 200 to 500 g./l. chromic acid.

2,640,022
COMPOSITION, BATH, AND PROCESS FOR CHROMIUM PLATING
Jesse E. Stareck, Birmingham, Mich., assignor to United Chromium, Incorporated, New York, N. Y., a corporation of Delaware
Application November 7, 1950, Serial No. 194,502
24 Claims. (Cl. 204—51)



1. A composition of matter for making up an aqueous chromic acid bath for chromium plating in the range of 100 to 500 g./l. of CrO_3, comprising essentially about 72 to 97 per cent by weight of CrO_3, an amount of strontium sulfate sufficient to saturate said bath and to provide an undissolved residue of strontium sulfate in the bath, an amount of potassium silicofluoride sufficient to saturate said bath and to provide an undissolved residue of potassium silicofluoride in the bath, a soluble non-catalytic strontium compound in an amount containing 0.21 to 5.3 per cent by weight of strontium, and a soluble non-catalytic potassium compound in an amount containing 0.64 to 4.7 per cent by weight potassium.

2,640,023
PHOTOCHEMICAL PRODUCTION OF BRANCHED PARAFFINIC HYDROCARBONS
Harry E. Cier, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
No Drawing. Application December 29, 1949, Serial No. 135,841
6 Claims. (Cl. 204—162)

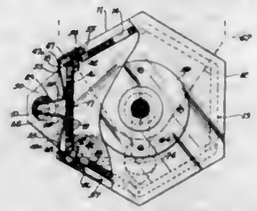
1. A method for reacting a first saturated hydrocarbon with a second saturated hydrocarbon which includes the steps of forming a mixture of first and second saturated hydrocarbons having from 1 to 7 carbon atoms in the molecule in the inverse proportion of the number of occurrences of the weakest carbon-hydrogen bond in each molecule of said hydrocarbons, flowing said mixture continuously through a reaction zone, exposing the mixture in said reaction zone to a resonance frequency radiation of a wave length of 2537 A. in the presence of mercury vapor at a temperature in the range between 80° and 650° F. at a pressure sufficient to maintain a vapor phase at a residence time in said reaction zone of about 4 minutes to form a saturated product having a branched structure and the same number of carbon atoms as the sum of the carbon atoms of the first and second hydrocarbons, and recovering said product.

2,640,024
ELECTROPHORETIC BORATING OF COPPER WIRE
Russell E. Palmateer, Emporium, Pa., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application November 2, 1948, Serial No. 57,994
2 Claims. (Cl. 204—181)



2. In the electrophoretic method of coating unoxidized copper wire with a borate coating preliminary to using it in making a seal to glass, the steps comprising passing the copper wire through a suspension of a mixture consisting essentially of sodium borate and powdered cuprous oxide in a non-aqueous, non-hydrophilic organic medium, maintaining an electric potential between said metal and a cathode through said suspension and thereby causing the mixture of sodium borate and cuprous oxide to coat the copper wire, withdrawing the copper wire from the suspension and passing the coated copper wire through a heated area wherein the sodium borate is caused to flow evenly over the surface of the copper wire.

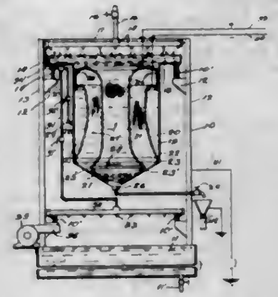
2,640,025
ELECTROPLATING BARREL
Anton M. Lazaro, Chicago, Ill.; Angelo Lazaro, administrator of said Anton M. Lazaro, deceased, assignor to Madelaine Lazaro, Chicago, Ill.
Application December 14, 1949, Serial No. 132,883
3 Claims. (Cl. 204—213)



1. An electroplating integral barrel member of heat deformable material consisting of methyl methacrylate adapted to maintain its shape through cycles involving the application of heat, comprising a pair of hexagonal end plates, each end plate having a groove on its inner surface and the said grooves being located adjacent the edges of but spaced from the edges of each end plate and extending parallel to the edges of the end plate, the inner side of each end plate having its face cut away on one side from the periphery to said groove to receive a cover, said end plates being arranged with their grooves facing each other and containing the end edges of an integral hexagonal barrel member of said material having one open side located at the cover side of said end plates, said barrel member having its end edges integrally welded in said grooves of said end plates, the side walls of said barrel being provided with a multiplicity of through apertures for passing electroplating fluid, a cover for the open side of said barrel member engaging the side edges of said barrel member, and means for securing the cover in place, each of the corners of said hexagonal barrel member being provided with a reinforcing complementary filling strip of methyl methacrylate diamond shaped in cross section integrally welded on the inside of said corners to both of the adjacent sheet portions forming the corners thereof substantially throughout the length of said barrel member and terminating at the inside surfaces of said end plates, the projecting apexes of said diamond shaped strips projecting inwardly of the corners to accentuate tumbling action of articles placed within the barrel for electroplating.

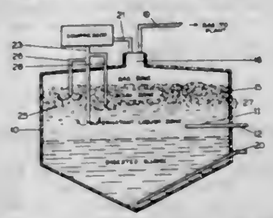
2,640,026
ELECTRIC FILTERING APPARATUS
Paul E. Whittington, Arlington, Va.
Application June 22, 1950, Serial No. 169,764
2 Claims. (Cl. 204—302)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Liquid filtering apparatus comprising an upstanding tank for holding liquid and having an opening in its top for receiving the liquid and including a bottom having a sediment drain opening, the tank having a clear liquid discharge opening in its side wall a substantial distance above the bottom of the tank, means for continuously introducing liquid into the top of the tank so that the tank is maintained substantially full during operation of the apparatus, inner and outer annular metallic filter screens arranged within the tank in generally vertical concentrically spaced relation and extending throughout the major portion of the height of the tank, the upper portions of the inner and outer filter screens extending generally radially to the side wall of the tank and being connected



therewith at the marginal edges of the filter screens in vertically spaced relation, the lower end of the inner filter screen being spaced from the bottom of the tank to provide a passage for sediment passing to the bottom of the tank, the lower end of the outer filter screen being connected with the side wall of the tank, the outer filter screen being spaced inwardly of the side wall throughout substantially its entire length forming a clear liquid chamber communicating with said clear liquid discharge opening, and means for establishing an electrostatic field between the inner and outer filter screens.

2,640,027
SEWAGE SLUDGE DIGESTION PROCESS
Paul D. McNamee, Washington, D. C., Allan B. Fay, Montgomery County, Md., and Thomas S. Derry, Washington, D. C., assignors to Paul D. McNamee, Allan B. Fay, Thomas S. Derry, Ralph E. Fuhrman, John Rice, and Hugh Schreiber, all of Washington, D. C.; Ruth Koons McNamee, executrix of said Paul D. McNamee, deceased
Application April 12, 1948, Serial No. 20,478
8 Claims. (Cl. 210—2)



1. In a digestion treatment of sewage sludge wherein digested sludge normally settles to the bottom of the digester, supernatant liquor normally remains above the sludge layer and a scum layer normally forms and floats above the supernatant liquor layer, the method of removing the

floating scum layer which comprises injecting a sludge gas under pressure under said scum layer and into the supernatant liquor layer to agitate said liquor layer and thereby agitate and vibrate said scum layer and disperse a portion of said liquor layer upwardly into said scum layer and degasify the said scum layer to disintegrate same and settle the solid matter therefrom.

2,640,028

INTERCRYSTALLIZED LITHIUM HYPOCHLORITE-SODIUM SULFATE COMPOSITION

Homer L. Robson, Lewiston, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application January 4, 1950, Serial No. 136,856

5 Claims. (Cl. 252—1)

5. A composition of matter consisting essentially of intercrystallized substantially anhydrous lithium hypochlorite and 10% to 100% by weight, based on the lithium hypochlorite, of substantially anhydrous sodium sulfate, characterized by the high density and the finely grained crystal structure of the intimately intercrystallized components with the sodium sulfate in the form of thin, inter-twined laths exhibiting low birefringence and negative elongation relative to thenardite.

2,640,029

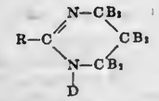
PROCESS FOR PREVENTING CORROSION

Charles M. Blair, Jr., and William F. Gross, Webster Groves, Mo., assignors to Petrolite Corporation, a corporation of Delaware

No Drawing. Application May 23, 1951, Serial No. 227,944

15 Claims. (Cl. 252—8.55)

1. A process for preventing corrosion of metals including the step of applying to such metals a substituted tetrahydropyrimidine of the formula type:



where D is a member of the class consisting of D'—R and R; D' represents a divalent organic radical containing less than 25 carbon atoms, composed of elements from the group consisting of C, H, O and N; R is a member of the class consisting of hydrogen and hydrocarbon radicals, with the proviso that at least one occurrence of R contains from 8 to 32 carbon atoms; B is a member of the class consisting of hydrogen and hydrocarbon radicals containing less than 7 carbon atoms, with the proviso that at least three occurrences of B be hydrogen.

2,640,030

ADDITIVES FOR USE IN EXTREME PRESSURE GEAR OILS

Fred B. Fischl, Rahway, and Max W. Hill, Somerville, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 1, 1951, Serial No. 213,455

13 Claims. (Cl. 252—46.6)

3. An extreme pressure additive composition for lubricants, consisting essentially of a mineral lubricating oil base stock of 50 to 250 S. S. U. viscosity at 210° F., treated with a phosphorus sulfide at a temperature within the range of 375° to 475° F. for a period of time of about 1–20 hours to incorporate about 3–6% by weight of phosphorus and about 5–12% of sulfur into the oil, said treated oil being stabilized by further treatment with 5 to 30% of its weight of a material selected from the class which consists of sulfurized fatty oils and their lower alcohol esters at a temperature in the range 250 to 450° F., for 2 to 10 hours.

2,640,031

HYDROLYSIS RESISTANT HEAT TRANSFER COMPOSITION

Ettore Da Fano, Raritan, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

No Drawing. Application February 9, 1950, Serial No. 143,345

3 Claims. (Cl. 252—78)

1. A heat transfer medium which is resistant to hydrolysis by water, and which has a freezing point below about −62° F., a boiling point above about 372° F., a viscosity at −31° F., below about 16.5 centistokes, and a viscosity at 77° F. within the range of about 1.8 to about 2.7 centistokes, consisting essentially of a mixture of tetra-isopropyl orthosilicate, tri-isopropyl mono-isobutyl orthosilicate, di-isopropyl di-isobutyl orthosilicate, mono-isopropyl tri-isobutyl orthosilicate and tetra-isobutyl orthosilicate, the isopropyl and isobutyl radicals in all of the compounds of the said mixture being in the proportion of from 1 to 3 isopropyl radicals to from 3 to 1 isobutyl radicals.

2,640,032

HEAT TRANSFER LIQUID OF DISPROPORTIONATION MIXTURE OF ALKYL ORTHOSILICATES

Ettore Da Fano, Pasadena, Calif., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

No Drawing. Application November 17, 1950, Serial No. 196,342

5 Claims. (Cl. 252—78)

1. A heat transfer medium which is resistant to hydrolysis by water, which is extremely liquid at low temperatures, which has a boiling point above about 414° F., a viscosity at −50° F. within the range of about 10 to 21 centistokes and a viscosity at 200° F. within the range of about 0.71 to 0.87 centistoke, consisting essentially of a disproportionation mixture of isopropyl radical- and butyl radical-containing silicates consisting essentially of tetra-isopropyl orthosilicate, tri-isopropyl mono-sec-butyl orthosilicate, di-isopropyl di-sec-butyl orthosilicate, mono-isopropyl tri-sec-butyl orthosilicate and tetra-sec-butyl orthosilicate, the isopropyl and sec-butyl radicals in the said mixture being in the proportion of from 4 to 10 isopropyl radicals to from 12 to 6 sec-butyl radicals.

2,640,033

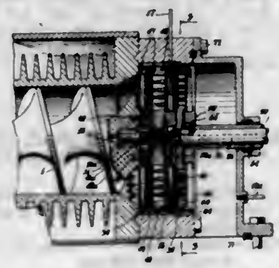
PROCESS AND APPARATUS FOR CONTINUOUSLY PROCESSING AND EXTRUDING PLASTICIZING MATERIALS

Donald E. Marshall, Summit, N. J., assignor to Micro Processing Equipment, Inc., Des Plaines, Ill., a corporation of Illinois

Application December 13, 1947, Serial No. 791,610

26 Claims. (Cl. 252—367)

14. The method of continuously processing cold milled soap to aerate the same, which comprises: progressively compacting the soap into a deformable mass; feeding the compacted deformable soap mass through a comminuting zone where it is broken up and into a blending zone; continuously spreading the soap in the blending zone over a foraminous plate to form the soap into a thin film and to force it through the apertures in the plate to thereby effect occlusion and uniform distribution in the soap of gas present in the blending zone; and so controlling the rate of feed of the soap mass through the comminuting zone and the speed of the spreading action within the blending zone that the soap moves through the blending zone much faster than it moves through the comminuting zone.



23. An apparatus for processing plasticizable material to incorporate a fluid secondary ingredient therein, comprising: means defining a blending chamber having an inlet and an outlet and through which the material to be processed must pass; a foraminous plate fixed across the outlet so that material to be discharged from the chamber must flow through the apertures in said plate; means for compacting the material into a flowable mass and for moving it toward the inlet of said chamber; a foraminous plate fixed across the inlet of said chamber and through which the material is forced by the compacting pressure; means for feeding the fluid secondary ingredient into said chamber; means for breaking up the material entering the blending chamber into small pellets; and means for spreading said pellets as they are formed over the foraminous outlet plate to form the same into a thin film with the fluid secondary ingredient uniformly dispersed therein and discharge the manipulated material from the blending chamber through the apertures in said outlet plate.

2,640,034

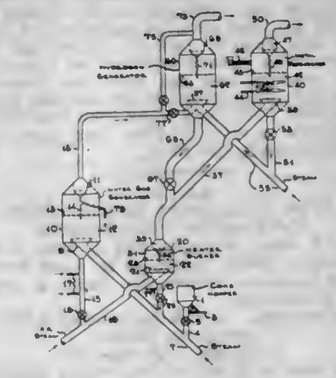
PRODUCTION OF MIXTURES OF CARBON MONOXIDE AND HYDROGEN

Minor C. K. Jones, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 4, 1946, Serial No. 674,255

4 Claims. (Cl. 252—373)

1. The continuous process of producing mixtures of hydrogen and carbon monoxide serving as feed gas to a hydrocarbon synthesis process and containing controlled molecular proportions of hydrogen from solid carbonaceous materials and steam which comprises continuously feeding fresh finely divided carbonaceous solids to a heated water gas generation zone, subjecting said finely divided solid carbonaceous material, in the form of a dense, turbulent bed of solids fluidized by an upwardly flowing gas and resembling a boiling liquid having a well defined upper level, to a water gas reaction with steam in said zone to produce a hot stream of water gas, continuously circulating solid carbonaceous residue of the water gas reaction to a heating zone and subjecting it therein in the form of a similarly fluidized bed of solids to incomplete combustion with air and steam to produce a hot combustible gas containing about 25% to 35% of carbon monoxide and about 10% to 15% hydrogen, continuously supplying a part of the heat generated by said combustion to said water gas reaction in the form of sensible heat of solid combustion residue returned from said heating zone to said water gas generation zone, continuously subjecting steam to a reducing treatment at a steam reducing temperature with a finely divided reduced metal oxide maintained in a similarly fluidized bed of solids to form hydrogen and finely divided metal oxide, continuously regenerating said reduced metal oxide in a separate re-



generation zone by reducing said metal oxide in a similarly fluidized bed of solids heated to a temperature higher than said steam reducing temperature by said hot combustible gas and reduced thereby producing a completely burned vent gas substantially free of carbon monoxide, continuously supplying to said steam reducing treatment at least a part of said hot water gas together with reduced metal oxide from said regenerating zone substantially at said higher temperature, controlling the molecular ratio of hydrogen to carbon monoxide in the gas from said steam reducing treatment by controlling the amounts of hot water gas and steam fed thereto together with said reduced metal oxide, mixing said gas with any remaining water gas by-passing the steam reducing treatment, and recovering the hydrogen enriched mixture.

2,640,035

NONDISCOLORING RECLAIM AND PROCESS FOR PREPARATION

Gardner L. Brown, Theodore A. Johnson, and Robert B. Knill, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application January 6, 1951, Serial No. 204,832

9 Claims. (Cl. 260—2.3)

1. The method of preparing a nondiscoloring reclaimed rubber composition which comprises the successive steps of devulcanizing scrap rubber with a nondiscoloring reclaiming oil, blending said scrap rubber with a nondiscoloring reclaim-

ing oil, and compounding said scrap rubber with finely divided activated charcoal and unvulcanized rubber.

2,640,036

PROCESS FOR MAKING LATEX SPONGE RUBBER

Philip D. Brass, Mahwah, and James U. Mann, Teaneck, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 15, 1951, Serial No. 211,178

4 Claims. (Cl. 260—2.5)

1. The process of making latex sponge rubber which comprises forming into a fluid uncoagulated foam a rubber latex selected from the group consisting of natural rubber latex and butadiene polymer synthetic rubber latices which is coagulable with carbon dioxide shaping the uncoagulated foam, and coagulating the shaped foam while in the fluid state by means of an atmosphere consisting of carbon dioxide gas under pressure of at least 0.03 pound per square inch gauge pressure and less than one pound per square inch gauge pressure, the size and shape of said shaped fluid foam being such that the carbon dioxide travels not more than three inches through uncoagulated foam.

2,640,037

FATTY ACID SALTS OF NITROGEN-CONTAINING POLYETHERS

Harvey L. Parry, Berkeley, and Quentin T. Wiles, Lafayette, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 3, 1951, Serial No. 249,628

14 Claims. (Cl. 260—42)

1. A fatty acid salt of the soluble fusible reaction product from reaction of a glycidyl polyether of a dihydric phenol having a 1,2-epoxy equivalency between 1.0 and 2.0 with a secondary amine while having in the reaction mixture at least 1.5 mols of said amine per epoxide equivalent of said polyether, said secondary amine containing a single nitrogen atom which is linked directly to two different carbon atoms and containing besides the single nitrogen atom only the elements carbon and hydrogen.

2,640,038

MAR-RESISTANT PAINT COMPOSITION

Edward A. Wilder and Francis E. Chapman, Racine, Wis., assignors to S. C. Johnson & Son, Inc., Racine, Wis.

No Drawing. Application January 28, 1950, Serial No. 141,162

16 Claims. (Cl. 260—22)

1. A mar-resistant paint composition comprising pigment and vehicle, said vehicle consisting essentially of an organic solvent, a resin and an ester of a polyhydric alcohol selected from the group consisting of pentaerythritol, polypentaerythritol and mixtures thereof, at least partially esterified exclusively with a monocarboxylic saturated fatty acid having from 15 to 22 carbon atoms, said ester being soluble in said resin and forming a physical solution therewith and being present in a quantity within a range of from an amount sufficient to increase the contact angle of water with material treated with said composition 20° over that treated with a quantity of said composition not containing said ester, the upper limit of said range being 4% by weight of the total composition.

2,640,039

RESINS CAPABLE OF PRODUCING VISCOUS AQUEOUS SOLUTIONS AND METHOD FOR THE MANUFACTURE THEREOF

John C. Williams, St. Charles, Ill., assignor to Hawley Products Company, St. Charles, Ill., a corporation of Delaware

No Drawing. Application February 20, 1947, Serial No. 729,874

15 Claims. (Cl. 260—23)

1. The process of producing a resin capable of forming thickened aqueous solutions at low concentrations and which gels in water at a total solids concentration as low as 1.2% which comprises refluxing 100 parts by weight of vinyl acetate, 10 parts by weight of maleic anhydride, 4 parts by weight of linseed oil and 0.2 part by weight of benzoyl peroxide for one hour and dissolving the resultant white powder in a dilute ammonia solution.

2,640,040

NONSWEATING STABILIZED WAX COMPOSITION AND PROCESS OF MAKING THE SAME

Rodney L. Lehman, Pomona, Calif., assignor to Brogdex Company, Pomona, Calif., a corporation of California

No Drawing. Application November 21, 1949, Serial No. 128,680

6 Claims. (Cl. 260—28.5)

1. A method of producing waxy protective coating compositions composed essentially of paraffin and mineral oil, said compositions being characterized by their enhanced homogeneity and stability, comprising: blending fifty per cent (50%) to ninety per cent (90%) of paraffin with fifty per cent (50%) to ten per cent (10%) of refined white mineral oil, by weight, while said paraffin is in liquid form, and incorporating in the composition, with agitation and circulation, from about 0.2% to about 2.0% of a polyethylene resin by weight of the composition, said resin having a mean molecular weight of between about three thousand (3000) and five thousand (5000).

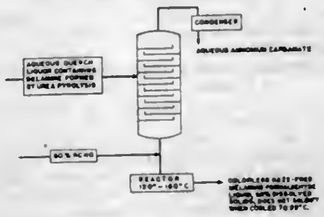
2,640,041

PROCESS FOR PREPARATION OF MELAMINE-FORMALDEHYDE REACTION PRODUCTS

Walter M. Bruner and Hamline M. Kvalnes, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application March 9, 1950, Serial No. 148,536

3 Claims. (Cl. 260—29.4)



1. A process for preparing a liquid aqueous melamine-formaldehyde reaction product, free of precipitate, which comprises heating formaldehyde with an aqueous solution of melamine at 120° to 160° C. under sufficient pressure to maintain the water in the liquid phase, the mol ratio of formaldehyde:melamine being from 4:1 to 15:1, the weight proportion of water:melamine being between 2:1 and 5:1, at a pH of 7 to 9.

2,640,042

BUTADIENE-VINYLPYRIDENE COPOLYMER AND CARBON BLACK COMPOSITION

Louis H. Howland, Watertown, and Victor S. Chambers, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 6, 1951, Serial No. 255,137

8 Claims. (Cl. 260—41.5)

1. A molded and vulcanized synthetic rubber composition being flexible and resilient at subzero temperatures, said composition comprising 25 to 75 parts of carbon black per 100 parts of synthetic rubber, the synthetic rubber component thereof being an aqueous emulsion polymerizate of a mixture of more than 97 parts to not more than 99.5 parts of butadiene hydrocarbon and less than 3 parts to at least 0.5 part of material selected from the group consisting of monovinyl pyridines, monalkyl monovinyl pyridines and dialkyl monovinyl pyridines, in which the substituents are on carbon atoms in the ring.

2,640,043

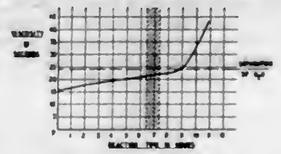
PHENOL-ALDEHYDE-KETONE RESINS

Robert Heinrich Sturm, Enfield, England, assignor to Cosmocord Plastics Limited, Enfield, England, a British company

Application December 20, 1949, Serial No. 134,037

In Great Britain May 29, 1946

7 Claims. (Cl. 260—45.1)



1. The method of producing a condensation product capable of tightly bonding as a coating to thermosetting moldings and laminates which comprises condensing a first mixture comprising phenol, a cyclic ketone of the group consisting of cyclopentanone, cyclohexanone and methyl cyclohexanone, formaldehyde, a basic catalyst and an alcohol of the group consisting of butyl and octyl alcohol, said condensation being carried out at an elevated temperature and for a time sufficient to produce a stable colloid with hydrophilic properties and being then arrested by acidification to a pH value of about 5.5 to 6, the ratio of reactants in said mixture being at least 2.5 mols of formaldehyde and at least 0.4 mol of ketone to each mol of phenol, adding to said stable colloid formaldehyde and an amide of the group consisting of urea and melamine, the ratio of the added amide to the added formaldehyde being about 1 mol of amide to from 2 to 6 mols of formaldehyde and the ratio of added amide to the phenol in said first mixture being from about 0.5 to 4 mols of the amide to 1 mol of phenol, reacting the resulting mixture at a temperature of the order of 80–85° C. for from about 1.25 to about 1.45 hours, removing the bulk of the water from the resulting reaction mixture by distillation under reduced pressure and at a temperature not exceeding about 75° C., diluting the resulting mixture with organic solvent and adjusting the pH value of the resulting composition to about 4.2–4.5.

2,640,044

HEAT STABILIZATION OF POLYAMIDES

Gelu S. Stamatoff, Newark, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 24, 1951, Serial No. 228,120

6 Claims. (Cl. 260—45.7)

1. A synthetic linear polycarbonamide which is stabilized against degradative effects of heat and oxygen by the addition of from 0.1 to 1% by weight of a phosphorous compound of the class consisting of phosphorous acids and alkali metal salts thereof and from 0.25 to 2.5% by weight of an alkali metal halide, said polyamide being one having recurring carbonamide groups as an integral part of the main polymer chain.

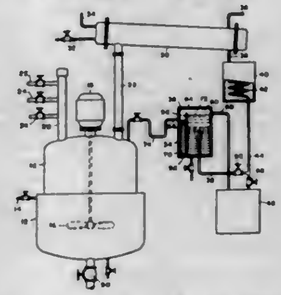
2,640,045

MANUFACTURE OF PHENOL-FURFURAL RESINS

Jack McDonald, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 20, 1950, Serial No. 163,178

2 Claims. (Cl. 260—56)



1. In the process of rapidly and efficiently reacting phenol with furfural into a resinous product, the steps comprising heating to a temperature of from 120° C. to 150° C. a mixture of phenol and furfural admixed with an alkaline catalyst promoting the reaction thereof into a resin, vapors of phenol, furfural and water being evolved during heating, condensing the vapors, collecting the condensate in a standing body allowing the condensate to cool and separate into a water layer containing a small percentage of furfural and some phenol, and a furfural-phenol layer containing a small percentage of water, decanting and returning only the furfural-phenol layer to the reaction mixture, whereby the reaction mixture temperature is maintained at from 120° C. to 150° without substantial loss of reactants, the condensation, decantation and return of only the furfural-phenol layer being continued until the exothermic heat of the reaction is insufficient to maintain the temperature of from 120° C. to 150° C., and the temperature drops, then applying heat and vacuum to the reaction product to vaporize phenol, furfural, low polymers thereof and a small amount of water, condensing these last-mentioned vapors without returning them to the reaction mixture, until a desired degree of resinification of the phenol-furfural has taken

place, then cooling the resulting reaction product, and thereafter preparing another batch of the reaction product using the last-mentioned condensed vapors as a part of the reaction charge.

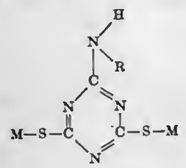
2,640,046

REACTION PRODUCTS OF AN ALDEHYDE AND AN ALDEHYDE-REACTABLE COMPOSITION COMPRISING THE CONDENSATION PRODUCT OF A POLYHALOGENATED COMPOUND AND A TRIAZINE DERIVATIVE

Jack T. Thurston, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 10, 1951, Serial No. 225,682
10 Claims. (Cl. 260—67.8)

1. A composition comprising a resinous material obtained by effecting reaction between ingredients including (1) an aldehyde and (2) a polymeric composition resulting from a condensation reaction between ingredients including (*a*) a triazine derivative represented by the general formula



where R represents a member of the class consisting of hydrogen, alkyl, cycloalkyl, aralkyl, aryl and alkaryl radicals and M represents an alkali metal and (*b*) a compound containing at least two but not more than three halogen atoms selected from the class consisting of chlorine and bromine atoms and which are attached to a radical selected from the group consisting of hydrocarbon and oxyhydrocarbon radicals, each halogen being attached to a carbon atom in which all four valences are satisfied by single bonds.

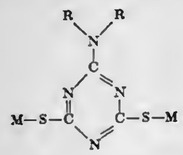
2,640,047

REACTION PRODUCTS OF A POLYHALOGENATED COMPOUND AND A TRIAZINE DERIVATIVE AND METHODS OF PREPARING THE SAME

Jack T. Thurston, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 10, 1951, Serial No. 225,681
15 Claims. (Cl. 260—79)

1. A composition comprising a synthetic polymeric material obtained by effecting reaction under heat between ingredients including (1) a triazine derivative represented by the general formula—



where R represents a member selected from the group consisting of hydrogen, alkyl, cycloalkyl, aralkyl, aryl and alkaryl radicals and M represents an alkali metal and (2) a compound having at least two but not more than three halogen atoms selected from the class consisting of chlorine and bromine atoms and which are attached to a radical selected from the group consisting of polyvalent hydrocarbon and oxyhydrocarbon radicals, each halogen being attached to a carbon atom in which all four valences are satisfied by single bonds.

2,640,048

CHLOROSULFONATION OF POLYTHENE USING AZO CATALYSTS

John S. Beekley, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 30, 1951, Serial No. 234,685. In Canada January 12, 1949
3 Claims. (Cl. 260—79.3)

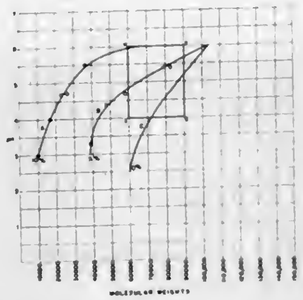
1. In a process for the preparation of chlorosulfonated solid polymers of ethylene, the step which comprises reacting a normally solid polymer of ethylene, dissolved in carbon tetrachloride, with sulfur dioxide and chlorine at a temperature between 50° and 77° C. in the presence, as a catalyst for the reaction, of an organic azo compound wherein the azo, —N=N—, group is acyclic and bonded from both nitrogens to separate carbons aliphatic in character, at least one of which is tertiary, and one of the carbon atoms bonded to said tertiary carbon atom having its remaining valances satisfied only by elements of the class consisting of oxygen and nitrogen.

2,640,049

PREPARATION OF ACRYLONITRILE-VINYLPYRIDINE POLYMERS

George Moore Rothrock, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application March 2, 1948, Serial No. 12,508
13 Claims. (Cl. 260—85.5)



1. A process for continuously polymerizing monomers comprising acrylonitrile and a vinylpyridine to polymers of a controlled molecular weight which process comprises continuously dissolving acrylonitrile and from 2% to 8% of said vinyl pyridine, based on the total amount of said monomers, in an aqueous solution containing a polymerization catalyst and having a pH not exceeding 6 upon which said molecular weight is dependent and polymerizing said monomers in said solution while continuously adding acid to said solution to maintain said pH substantially constant.

2,640,050

METHOD OF COPOLYMERIZING VINYLIDENE CHLORIDE AND VINYL CHLORIDE

Walter J. Le Fevre and Harold W. Moll, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 12, 1950, Serial No. 155,554
4 Claims. (Cl. 260—87.7)

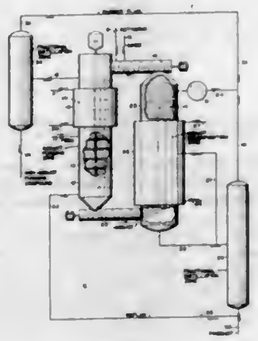
1. The method which comprises copolymerizing, in aqueous emulsion and in a closed vessel, a monomeric mixture at least 80 per cent of which consists of vinylidene chloride and vinyl chloride in proportions between 35 and 70 per cent by weight of vinylidene chloride and complementarily between 65 and 30 per cent of vinyl chloride, only until from 10 to 60 per cent of the mixture of monomers has polymerized, as evidenced by a corresponding increase in pressure in the vessel at the substantially constant reaction temperature by about 2 to 12 pounds per square inch, then adding at one time enough more monomer, consisting of vinylidene chloride to increase the overall ratio of vinylidene chloride to vinyl chloride to a higher value in the range from 65 to 95 per cent vinylidene chloride and complementarily from 35 to 5 per cent vinyl chloride, continuing the polymerization reaction after said vinylidene chloride addition until from 80 to 90 per cent of the total monomeric charge is copolymerized, and thereupon recovering the copolymeric product.

2,640,051

PROCESS FOR THE DECOMPOSITION OF UREA AND THIOUREA ADDUCTS

Charles S. Lynch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 4, 1950, Serial No. 198,965
15 Claims. (Cl. 260—96.5)



1. The process for separating an organic compound capable of forming a solid adduct with an amide selected from the group consisting of urea and thiourea from admixture with an organic compound not capable of forming such an adduct which comprises passing particles of said amide downwardly by gravity as an agitated columnar mass through an adduct forming zone, introducing said admixture of organic compounds into said adduct forming zone at a point intermediate its ends and at a rate within the range of 1 to 0.05 mols per mol of said amide, maintaining said adduct forming zone at a temperature within the range of minus 70 to 120° F. and under sufficient pressure to maintain liquid phase conditions therein, removing non-adduct-forming organic compound from the upper portion of said adduct forming zone, passing a resulting adduct from the lower portion of said adduct forming zone to the lower portion of a decomposition zone, forming an agitated fluent bed of amide particles in the upper portion of said decomposition zone by passing a halogenated non-adduct-forming hydrocarbon at a temperature within the range of minus 70 to 120° F. and having a solvent power for said adduct-forming compound and having a specific gravity within the range of 1.42 to 1.8 downwardly through said decomposition zone at a rate sufficient to provide therein a downward liquid velocity within the range of 0.2 to 5 feet per minute, maintaining the temperature in the lower portion of said decomposition zone within the range of 80 to 200° F., but above the thermal decomposition temperature of said adduct, passing liberated solid amide from the upper portion of said decomposition zone to the upper portion of said adduct forming zone, and returning to the lower portion of said adduct forming zone as reflux from 0.5 to 20 gallons of the separated adduct forming compound per cubic foot of solid material removed therefrom.

2,640,052

ALKALI-LIGNIN TANNING AGENTS AND METHOD OF PREPARATION

William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

No Drawing. Application July 25, 1950, Serial No. 175,886
8 Claims. (Cl. 260—124)

2. Method of preparing a tanning agent which comprises reacting chlorine with alkali-lignin in the presence of at least sufficient water to form a wet paste, continuing the reaction until said alkali-lignin contains from about 15 per cent to 30 per cent of combined chlorine, separating said alkali-lignin derivative from the accompanying liquor, dissolving said alkali-lignin in water by adding alkali in an amount sufficient to raise the pH to between about 6 and 10, and adjusting the pH of the resulting solution to an acid value for tanning hide.

2,640,053

COMPOUNDED LUBRICATING OIL

Max W. Hill, Somerville, and Robert H. Jones, Kenilworth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 23, 1949, Serial No. 129,196
13 Claims. (Cl. 260—139)

1. As a new composition of matter a product obtained by reacting about one molecular proportion of a phosphorus sulfide with two to five molecular proportions of a hydrocarbon and further reacting the acidic product thus formed with 0.1% to 50% of its weight of a hydrocarbon containing at least one olefinic double bond.

6. The method which comprises reacting one molecular proportion of a sulfide of phosphorus with two to five molecular proportions of a hydrocarbon and further reacting the product thus formed with a hydrocarbon containing at least one olefinic double bond.

2,640,054

PROCESS OF CRYSTALLIZING DIHYDROSTREPTOMYCIN SULFATE

Robert B. Peet, Branford, Conn., assignor to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 10, 1949, Serial No. 109,617
3 Claims. (Cl. 260—210)

1. A process for treating dihydrostreptomycin sulfate which comprises forming an aqueous solution of said sulfate, adding methanol to said solution in such an amount that the methanol content of the resulting liquid is about 50% by volume, the dihydrostreptomycin sulfate content of said resulting liquid being about 15% by weight, introducing seed crystals into said liquid, allowing said liquid to stand and thereafter adding additional methanol in three equal increments at intervals until the total methanol content is approximately 80% by volume, each of said increments having a volume equal to approximately the initial methanol content of the liquid, allowing separate methanol-predominant and aqueous-predominant layers to form, crystallizing said dihydrostreptomycin sulfate from said aqueous-predominant layer, and separating the resulting crystals from the liquid associated therewith.

2,640,055

AMIDES

John A. King, Manhasset, and Freeman H. McMillan, New York, N. Y., assignors to Warner-Hudnut, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 6, 1951, Serial No. 204,818
1 Claim. (Cl. 260—294)

N-methyl-N-phenyl-beta-(2 - piperidyl) - propionamide.

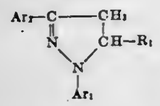
2,640,056

PYRAZOLINE SULPHONIC ACIDS

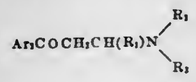
John David Kendall and George Frank Duffin, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application May 29, 1950, Serial No. 165,118. In Great Britain June 3, 1949
9 Claims. (Cl. 260—310)

1. Process for the production of a compound of the general formula:



where R_1 is selected from the class consisting of the hydrogen atom, lower alkyl, unsubstituted phenyl, lower alkoxy phenyl and chloro phenyl, Ar_1 is selected from the class consisting of sulphophenyl and lower alkyl sulphophenyl, and Ar_2 is selected from the class consisting of unsubstituted phenyl, halophenyl, lower alkyl phenyl and lower alkoxy phenyl, which comprises condensing a ketone selected from the class consisting of ketones of the general formula $Ar_2COCH{=}CHR_1$ and corresponding dialkylamine addition products of the formula:

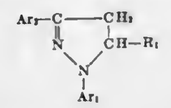


where R_2 and R_3 are alkyl groups, with an aryl hydrazine sulphonic acid of the formula

$$Ar_1NHNH_2$$

under alkaline conditions.

4. A compound of the general formula:



where R_1 is selected from the class consisting of the hydrogen atom, lower alkyl, unsubstituted phenyl, lower alkyl phenyl and chloro phenyl, Ar_1 is selected from the class consisting of sulphophenyl and lower alkyl sulphophenyl, and Ar_2 is selected from the class consisting of unsubstituted phenyl, halophenyl, lower alkyl phenyl and lower alkoxy phenyl.

2,640,057

REACTIONS OF HETEROCYCLIC COMPOUNDS WITH UNSATURATED CARBONYL COMPOUNDS

Irving D. Webb, Holly Oak, and Gerald T. Borcherdt, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 29, 1950, Serial No. 187,664
8 Claims. (Cl. 260—326.5)

1. A process which comprises reacting a heterocyclic compound taken from the group consisting of furan, pyrrole, thiophene, methyl furylacrylate, furfural, 2(3 - oxobutyl)pyrrole, furanpropionaldehyde, pyrrolepropionaldehyde, and furylacrolein, with an ethylenic dienophile, containing an ethylenic linkage and a carbonyl group joined through a single covalent bond, at a temperature of from 25° C. to 150° C. in the presence of an acid catalyst taken from the group consisting of sulfur dioxide, sulfuric acid, acetic acid, and boron trifluoride and, as a diluent, at least one mol of water per mol of dienophile.

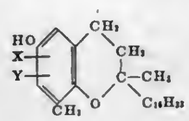
2,640,058

HYDROXYALKYL-SUBSTITUTED TOCOPHEROLS

Leonard Weisler, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Original application October 8, 1949, Serial No. 120,411. Divided and this application September 13, 1951, Serial No. 246,511
7 Claims. (Cl. 260—345.5)

1. As a new chemical compound, a hydroxyalkylated tocopherol having the formula



wherein X is a member selected from the class consisting of hydrogen, methyl groups and lower hydroxyalkyl groups; and Y is a lower hydroxyalkyl group.

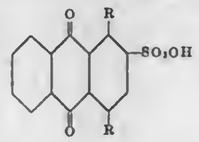
2,640,059

METHOD OF PREPARING HYDROXYALKYLTHIO ANTHRAQUINONES

Victor S. Salvin, Irvington, and Edward F. Landau, Newark, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application July 20, 1949, Serial No. 105,894
7 Claims. (Cl. 260—371)

1. Process for preparing hydroxyalkylthio anthraquinones which comprises reacting an anthraquinone of the following general formula



wherein R is a member of the group consisting of Br, OH, NH_2, NHR_1 and $NHSO_2R_1$, with at least one R being NH_2 or NHR_1, and R_1 is a member of the group consisting of alkyl and aryl with a mercapto alkyl alcohol.

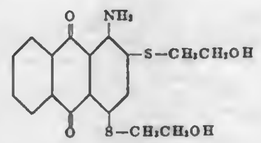
2,640,060

β-HYDROXYETHYL-THIO-ANTHRAQUINONES

Victor S. Salvin, Irvington, and Edward F. Landau, Morristown, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application September 9, 1949, Serial No. 114,915
1 Claim. (Cl. 260—378)

Process for the production of the anthraquinone dyestuff:



which comprises reacting 1-amino 2-sulfo-4-bromo-anthraquinone with 2-mercapto ethanol at reflux temperature for 3 to 8 hours in the presence of dilute aqueous sodium hydroxide.

2,640,061

PROCESS FOR THE PREPARATION OF 1-AMINO-2-ALKYL-MERCAPTO-4 HYDROXY-ANTHRAQUINONES

George W. Seymour, Maplewood, and Victor S. Salvin, Irvington, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Original application May 7, 1947, Serial No. 746,634. Divided and this application July 29, 1952, Serial No. 301,606
1 Claim. (Cl. 260—380)

Process for the production of 1-amino-2-methyl-mercapto - 4 - hydroxy-anthraquinone which comprises reacting 1-amino-2-mercapto-4-hydroxy-anthraquinone under reflux in an aqueous alkaline medium with dimethyl sulfate.

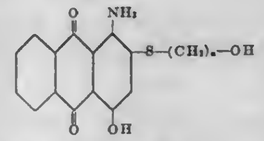
2,640,062

1-AMINO-2-HYDROXYALKYL MERCAPTO-4-HYDROXY ANTHRAQUINONE DYESTUFFS

George W. Seymour, Cumberland, Md., and Victor S. Salvin, Summit, N. J., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 7, 1947, Serial No. 746,634
4 Claims. (Cl. 260—380)

1. The anthraquinone dyestuffs of the following general formula:



wherein n is a whole number.

2,640,063

FLUOROHYDROCARBON SUBSTITUTED SILANOLS

Charles F. Kohl, Jr., Pittsburgh, Pa., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

No Drawing. Application October 27, 1949, Serial No. 123,991
1 Claim. (Cl. 260—448.2)



where n is a positive integer less than 3 and m has a positive value of from 2 to 3.

2,640,064

BROMOALKYLSILANES AND THEIR PREPARATION

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application June 8, 1950, Serial No. 166,989
6 Claims. (Cl. 260—448.2)

1. The method which comprises contacting chlorine and bromine with a compound of the general formula $R_{4-a}SiCl_{3-a}$ in fluid state, where a has a value of from 2 to 4 inclusive and R is selected from the group consisting of methyl and ethyl radicals, whereby there is produced a composition of the general formula $R_a(BrR')SiCl_{3-a}$ where a has a value of from 1 to 3 inclusive, and R' is a radical selected from the group consisting of CH_2 and C_2H_4 radicals.

2,640,065

PRODUCTION OF ORGANOSILANES

Siegfried Nitzsche, Burghausen, Oberbayern, and Egon Wiberg and Askan Hertwig, Seelze, Munich, Germany

No Drawing. Application November 1, 1951, Serial No. 254,436. In Germany August 23, 1950
6 Claims. (Cl. 260—448.2)

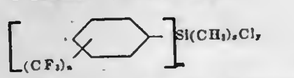
1. The method of preparing organosilicon compounds which comprises contacting a chlorohydrocarbon at a temperature above 300° C. with a solid silicon subchloride.

2,640,066
ORGANO SILICON COMPOUNDS AND THEIR PREPARATION

Charles F. Kohl, Jr., Pittsburgh, Pa., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

No Drawing. Application November 17, 1947, Serial No. 786,541
5 Claims. (Cl. 260—448.2)

1.



where n is a positive integer less than three, m and y are positive integers less than four, x is an integer from 0 to 2 inclusive, and $m+x+y=4$.

2,640,067
GRIGNARD REAGENTS OF ORGANO-ALKOXYSILANES

John L. Speier, Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Original application July 26, 1950, Serial No. 176,072. Divided and this application March 24, 1952, Serial No. 278,301
2 Claims. (Cl. 260—448.8)

1. A compound of the formula

$$R_3SiO(CH_2)_xMgCl$$

where R is selected from the group alkyl and phenyl radicals and x has a value from 4 to 5.

2,640,068
METHOD OF PREPARING AN ISOCYANATE

Frederic C. Schaefer and Erhart K. Drechsel, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 20, 1949, Serial No. 111,570
8 Claims. (Cl. 260—453)

1. The method of preparing a hydrocarbon monoisocyanate which comprises bringing into intimate contact, at a temperature within the range of −40° C. to +10° C., ingredients comprising a primary monohydrocarbon amine and phosgene in the ratio of 1 mole of the former to not less than 0.5 mole of the latter, removing the amine hydrochloride which is formed and unreacted phosgene from the reaction mass, dehydrochlorinating the hydrocarbon-carbamyl chloride in the residue to the corresponding hydrocarbon monoisocyanate, and recovering the said isocyanate.

2,640,069
CONCENTRATION OF SECONDARY ALKYL SULFATE SALT SOLUTIONS

Pieter W. O. Wijga, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 31, 1949, Serial No. 136,400. In the Netherlands January 12, 1949
7 Claims. (Cl. 260—460)

1. A process of producing a more concentrated aqueous solution of a water-soluble salt of a secondary alkyl sulfuric acid ester having 8 to 20 carbon atoms per molecule from a less concentrated aqueous solution thereof which comprises adding sufficient sodium chloride to substantially saturate the solution at a temperature of about 40° C. to 90° C., maintaining the mixture at a temperature within said range for at least ¼ hour until stratification takes place, in the absence of added organic solvent for said ester salt, into an ester salt layer having a higher ester salt to water ratio than said less concentrated solution and a sodium chloride layer substantially free from ester salts, and separating said layers.

2,640,070
HIGHER ALKYL ESTER PRODUCTION

Edouard A. M. F. Dahmen, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 26, 1950, Serial No. 170,482. In the Netherlands July 4, 1949
14 Claims. (Cl. 260—460)

1. In a process of esterifying an olefin having at least five carbon atoms per molecule with a strong polybasic inorganic oxy-acid, the improvement which comprises esterifying said olefin by reaction with said acid in the presence of about 0.5% to 10% by weight of said olefin of an organic compound of the group consisting of hydroxyl compounds having an aliphatic group containing at least five carbon atoms and sulfite esters of said hydroxyl compounds.

2,640,071
CARBONYLATION OF ARYL HALIDES

Henry J. Leibu, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 9, 1951, Serial No. 210,290
6 Claims. (Cl. 260—475)

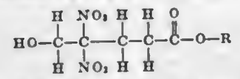
1. A process for carbonylation of p-dichlorobenzene which comprises heating p-dichlorobenzene with carbon monoxide in the presence of triphenyl phosphine-nickel carbonyl complex of the formula $[(C_6H_5)_3P]_2Ni(CO)_2$ at a temperature in the range of about 250° to 450° C. under superatmospheric pressure and thereafter recovering from the resulting mixture the carbonylation product thus obtained.

2,640,072
VALERIC ACID DERIVATIVES

Karl Klager, Monrovia, Calif.

No Drawing. Application December 21, 1951, Serial No. 262,880
6 Claims. (Cl. 260—484)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Compounds having the formula:



in which R is a member of the group consisting of lower unsubstituted alkyl radicals.

2,640,073
DEHYDROHALOGENATION OF DIHALOPROPIONIC ACID COMPOUNDS

William O. Ney, Jr., Somerset Center, Mass., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 3, 1950, Serial No. 194,018
8 Claims. (Cl. 260—486)

5. A process for the preparation of an ester of α-chloroacrylic acid, which comprises heating the corresponding ester of α,β-dihalopropionic acid at a temperature from 60 to 110° C. with an aqueous solution of an alkali metal monohydrogen phosphate together with an alkali metal dihydrogen phosphate, said solution having a pH between 4 and 7, and the concentration of said alkali metal monohydrogen phosphate being at least 10% throughout the reaction.

2,640,074
PROCESS FOR SYNTHESIS OF HIGHER ALIPHATIC OXYGEN-CONTAINING COMPOUNDS

William F. Gresham and Arthur J. Hill, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 18, 1949, Serial No. 94,046
2 Claims. (Cl. 260—497)

1. A process which comprises reacting butadiene with carbon monoxide and hydrogen at a reaction temperature within the range of 135° to 200° C. under 2,500 to 5,000 atmospheres pressure in a liquid alkanoic acid medium in the presence of a cobalt compound dissolved in the said alkanoic acid whereby a reaction product of the said butadiene, carbon monoxide and hydrogen is obtained, said reaction product having an oxygen atom attached to an acyclic hydrocarbon radical, the number of carbon atoms in the said acyclic hydrocarbon radical being at least 9 and not greater than 21.

2,640,075
MANUFACTURE OF POLYCARBOXYLIC ACIDS

Martinus L. Goedkoop, Geleen, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, handelend voor en namens de Staat der Nederlanden, Heerlen, Netherlands

No Drawing. Application March 26, 1951, Serial No. 217,679. In the Netherlands April 1, 1950
3 Claims. (Cl. 260—515)

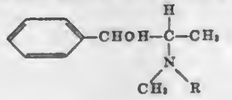
1. A process for the manufacture of polycarboxylic acids which comprises providing a quantity of an aryl polycarboxylic acid mixture containing mellitic acid obtained by oxidation of coke, coating coke breeze with said acid mixture, heating the coated coke breeze in a gas stream containing water vapor to between 250° and 400° C. whereupon the mellitic acid in said mixture is converted to pyromellitic acid, the latter being volatilized by said gas stream and recovered therefrom, recovering the solid residue comprising coke breeze and residual products derived from said acid mixture, from said heating operation, oxidizing said solid residue and recovering a mixture of polycarboxylic acids containing mellitic acid therefrom, and thereafter utilizing the recovered acid mixture for coating said coke breeze.

2,640,076
1-PHENYL-2(METHYL-CAMPHOSULFONYL) AMINO PROPANOLS

Jules Henri Théophile Ledrut, Brussels, Belgium, assignor to Luxema S. A., Ixelles (Brussels), Belgium, a company of the Great Duchy of Luxemburg

No Drawing. Application April 25, 1951, Serial No. 222,945. In Belgium February 10, 1948
3 Claims. (Cl. 260—556)

1. A 1-phenyl-2(methyl-camphosulfonyl)-amino propanol having the following formula:



in which R is a camphosulfonyl radical which is connected to the nitrogen atom of the 1-phenyl-2-methylaminopropanol through the sulfur atom of said radical.

2,640,077
PREPARATION OF AMIDES

Marcus A. Naylor, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 9, 1951, Serial No. 214,840
14 Claims. (Cl. 260—561)

1. A process for preparing amides of aliphatic carboxylic acids which comprises heating a dialkyl sulfide of the formula alkyl(S)$_x$alkyl wherein n is an integer of from 1 to 2 inclusive with aqueous ammonium polysulfide at a temperature within the range of 180° C. and 340° C. under superatmospheric pressure, whereby an aliphatic carboxylic acid amide is produced and thereafter separating the said amide from the resulting mixture.

2,640,078
PREPARATION OF AMIDES

Harry A. Straw, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 9, 1951, Serial No. 214,857
14 Claims. (Cl. 260—561)

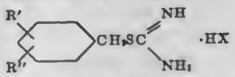
1. A process for preparing alkanoic acid amides which comprises heating an alkene-sulfur oil of the composition $(C_nH_{2n+1})_2S_x$, wherein x has a value of at least 3, with water and a nitrogen-containing compound from the group consisting of ammonia, aliphatic primary amines, and aliphatic secondary amines, as the sole reactants, at a temperature within the range 175° C. and 350° C. whereby an alkanoic acid amide is produced, and thereafter separating the said alkanoic acid amide from the resulting mixture.

2,640,079
ALKYLBENZYLTHIURONIUM SALTS

Peter L. de Benneville, Philadelphia, Pa., Norman H. Leake, Bristol, Tenn., and Louis H. Bock, Shelton, Wash., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application March 8, 1950, Serial No. 148,514
8 Claims. (Cl. 260—564)

1. Compounds of the formula



wherein R′ is an alkyl group of 7 to 12 carbon atoms, R″ is a member of the class consisting of hydrogen and the methyl group, and X is a halogen.

2,640,080
PREPARATION OF PRIMARY DIAMINES

De Los F. De Tar, Ithaca, and Charles J. Le Pome, Kenmore, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 18, 1947, Serial No. 780,762
8 Claims. (Cl. 260—570.9)

7. A process for the synthesis of diprimary diamines which comprises reacting ammonia in

the liquid phase under anhydrous conditions with a dihalohydrocarbon, having not more than 12 carbon atoms per molecule, in which both halogen atoms are of the class consisting of chlorine and bromine, each of the said halogen atoms being separated by a methylene group from an aromatic nucleus, at a temperature of 30° to 60° C., the initial mol ratio of ammonia to the said dihalide being from 250:1 to 1200:1, for a reaction period not exceeding 70 minutes, whereby a hydrohalide of a diprimary diamine is produced as the chief reaction product, and thereafter separating the said diprimary diamine from the resulting mixture.

2,640,081

PROCESS FOR MANUFACTURING BENZIDINE TYPE COMPOUNDS

Martin Donald Farkas, Chicago, and Jerome Delch, Harvey, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

Application October 4, 1949, Serial No. 119,436
13 Claims. (Cl. 260—578)

10. The process of manufacturing compounds of the benzidine series which comprises heating a mono-nitro substituted benzene ring compound having a position para to the nitro group unsubstituted to a temperature of about 80° C., adding a ⅓ portion of an approximately 30% aqueous solution of an alkali metal hydroxide, introducing finely divided zinc at the rate of about 20% of the weight of such metal per hour while maintaining the temperature between about 80°–90° C., adding a second aliquot portion of the aqueous solution of alkali metal hydroxide after about 10% of the zinc has been added, and the third aliquot portion after about ½ of the zinc has been added, reducing the temperature by about 10 to 20 degrees, adding an additional amount of finely divided zinc at the rate of about 20% by weight of the metal per hour at the reduced temperature, agitating the reaction mass for a period of about 1 hour after the addition of the metallic catalyst has been completed while maintaining the temperature to at least about 70° C., shock-cooling the reaction mass to a temperature below about 20° C.; substantially neutralizing the reaction mass with a mineral acid, separating the hydrazoaromatic product from the reaction liquor, and rearranging said product by treating the latter with a mineral acid which has been cooled to about 10° C., said rearrangement occurring at a temperature of from about 20 to about 90° C., diluting the rearranged mass with from 1 to 10 volumes of water, agitating for a period of from about .5 to 1 hour, and recovering the rearranged product therefrom.

2,640,082

PROCESS FOR SYNTHESIS OF DIAMINES

Ralph C. Schreyer, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 8, 1950, Serial No. 194,726
1 Claim. (Cl. 260—583)

A process which comprises reacting 5-methyl-5-hexenenitrile with at least one mol of carbon monoxide and at least one mol of hydrogen per mol of the hexenenitrile at a temperature of 75° C. to 200° C. and at a pressure of at least 50 atmospheres in the presence of a catalyst taken from the group consisting of cobalt, cobalt naphthenate, cobalt oxides, and cobalt carbonyls to produce 6-cyano-3-methylhexanal, and thereafter reacting the 6-cyano-3-methylhexanal thus produced with at least three mols of hydrogen and at least one mol of ammonia per mol of the hexanal at a temperature of 75° C. to 250° C. and at a pressure of at least 50 atmospheres and separating 3-methylheptamethylenediamine from the resulting reaction mixture.

2,640,083

MANUFACTURE OF VANILLIN AND ITS HOMOLOGUES

Jonas Kamlet, Easton, Conn., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application November 9, 1949, Serial No. 126,439
5 Claims. (Cl. 260—600)

1. In the manufacture of an alkyloxy-hydroxybenzaldehyde by condensation of an o-alkyloxyphenol with an alkali metal glyoxylate to form the corresponding alkali metal salt of m-alkyloxy-p-hydroxyphenylglycollic acid, oxidation of this glycollate in an alkaline environment with a cupric compound utilized as cupric hydroxide to form the corresponding salt of m-alkyloxy-p-hydroxyphenylglyoxylic acid and cuprous oxide, and decarboxylation of this glyoxylate so as to form a reaction mixture containing the alkali metal salt of the corresponding m-alkyloxy-p-hydroxybenzaldehyde, the improvement which comprises adding to the reaction mixture an acid selected from the group consisting of hydrochloric acid and hydrobromic acid in an amount sufficient to liberate the m-alkyloxy-p-hydroxybenzaldehyde and to dissolve the cuprous oxide as an aqueous solution of a hydrocuprous halide, extracting the free m-alkyloxy-p-hydroxybenzaldehyde from the reaction mixture with an organic solvent, oxidizing the hydrocuprous halide in the aqueous residue of said extracted reaction mixture to regenerate the corresponding cupric halide, and then recycling same to the oxidation of the glycollate.

2,640,084

DEHYDROGENATION CATALYST AND PROCESS

Henry C. Chitwood, John T. Fitzpatrick, George W. Fowler, and Benjamin T. Freure, Charleston, W. Va., assignors to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Original application February 16, 1949, Serial No. 76,852. Divided and this application April 26, 1951, Serial No. 223,172
16 Claims. (Cl. 260—621)

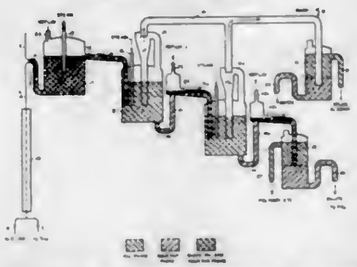
1. A process for producing a phenol by catalytic dehydrogenation of the corresponding oxygenated hydroaromatic compound which comprises passing the oxygenated hydroaromatic compound in the vapor phase over a stabilized hydrogenation catalyst at a temperature of about 350° to 375° C., said catalyst consisting essentially of nickel; copper, mostly in the form of metallic copper; chromium, mostly in the form of its oxide; and an alkali metal sulfate of the group consisting of lithium sulfate, sodium sulfate, potassium sulfate, rubidium sulfate, and caesium sulfate; said copper and chromium being present in a ratio of about 15 to 40 parts of copper and about 0.5 to 4 parts of chromium per 100 parts of nickel, computed on a metal basis by weight; and said alkali metal sulfate being present in a ratio of at least 0.3 part per 100 parts of nickel, by weight, and not more than 0.8 part of lithium sulfate; 0.8 part of sodium sulfate; 1.0 part of potassium sulfate; 1.5 parts of rubidium sulfate; and 2.0 parts of caesium sulfate, all per 100 parts of nickel by weight with a total alkali metal sulfate content not to exceed 0.33 gram-mol per 100 gram atoms of nickel.

2,640,085

MANUFACTURE OF ALCOHOL

Leslie Newton Goldsbrough, Thornton-le-Moors, England, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application October 15, 1949, Serial No. 121,529
In Great Britain November 2, 1948
8 Claims. (Cl. 260—639)



1. A process for the production of alcohols which are sparingly soluble in water and are volatile in steam by acid hydrolysis of a mixture of the corresponding mono- and poly-esters of a polybasic inorganic acid, which comprises heating said mixture of esters in the presence of dilute aqueous inorganic acid to effect hydrolysis of at least a major part of the said mono-ester, passing the resulting mixture containing an oily phase comprising said poly-ester and an aqueous acid phase through a hydrolysis zone wherein said phases are at least partially separated and the aqueous phase is withdrawn at a faster rate than said oily phase to provide a longer residence time in the second of said hydrolysis zones for said poly-ester than for said aqueous acid phase, and subjecting the oily phase in said hydrolysis zone to heating with steam to bring about hydrolysis of at least a substantial part of said poly-ester content of the oily phase and to vaporize and remove alcohol therefrom.

2,640,086

PROCESS FOR SEPARATING HYDROGEN FLUORIDE FROM CHLORODIFLUOROMETHANE

Robert H. Baldwin, Chadds Ford, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 15, 1951, Serial No. 261,929
9 Claims. (Cl. 260—653)

1. The process of separating a mixture of hydrogen fluoride and monochlorodifluoromethane which comprises adding chloroform to the mixture and subjecting the same to a temperature below 0° C., allowing two layers to form and thereafter separating the said layers, the ratio of the chloroform to the monochlorodifluoromethane being from 0.25 mol to 2.5 mols of chloroform per mol of monochlorodifluoromethane.

2,640,087

MANUFACTURE OF LATEX FOAM SPONGE

Robert O. Borton, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 10, 1950, Serial No. 161,272
4 Claims. (Cl. 260—723)

1. The method of making sponge rubber which comprises preparing a fluid foam of a rubber latex selected from the group consisting of natural rubber latex and mixtures of a major proportion of a natural rubber latex and a minor proportion of a synthetic rubber latex which is an aqueous emulsion polymerizate of material selected from the group consisting of butadiene-1,3 hydrocarbons and mixtures of butadiene-1,3 hydrocarbons with other polymerizable compounds containing a $CH_2=C<$ group and capable of forming copolymers with butadiene-1,3 hydrocarbons, said latex containing 1 to 5 parts of water-soluble soap of soap-forming monocarboxylic acid and 0.2 to 1.8 parts of alkali-metal silicate, and adding to the thus prepared foam 0.5 to 4 parts of alkali-metal silicofluoride per 100 parts of latex solids, the said alkali-metal silicate being in amount less than the said alkali-metal silicofluoride, shaping the foam before gelling takes place, permitting the foam to gel, and vulcanizing to form sponge rubber.

2,640,088

VULCANIZATION ACCELERATORS

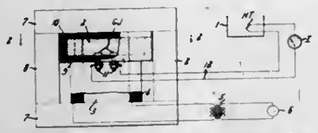
Harry D. Glenn and Ivan Mankowich, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 6, 1950, Serial No. 137,261
3 Claims. (Cl. 260—747)

1. As a new product, free-flowing pellets of uniform composition composed of aggregates of a powdered rubber vulcanization accelerator selected from the group consisting of benzothiazole derivatives, thiuram sulfides and salts of dithiocarbamic acids, the particles of said accelerator being held together in pellet form with a binder comprising a mixture of a dried rubber latex solids in amount from 0.05 to 3.5 parts by weight per 100 parts of said accelerator and a hardening agent for increasing the physical hardness and preventing lumping, packing or flattening of the pellets, said hardening agent being selected from the group consisting of proteins, vegetable gums, starches, dextrose, carboxy alkyl celluloses and sodium rosinate, and being present in amount from 0.1 to 5 parts by weight per 100 parts of said accelerator.

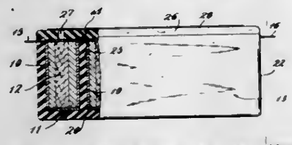
ELECTRICAL

2,640,089
THERMOCOUPLE COLD-END COMPENSATOR
Roswell W. Gilbert, Montclair, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application January 6, 1950, Serial No. 137,110
9 Claims. (Cl. 136—4)



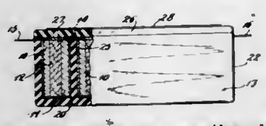
8. A constant temperature device for maintaining a thermocouple at a fixed temperature; said device comprising a transformer having a primary winding for connection to a power source of substantially constant potential and a closed secondary loop in thermal contact with the thermocouple, said secondary loop comprising an alloy that increases sharply in resistance as the alloy passes from the solid to the liquid phase.

2,640,090
BATTERY
Leo E. Pucher, South Euclid, and William A. Cunningham, Cleveland, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application June 3, 1949, Serial No. 96,908
8 Claims. (Cl. 136—100)



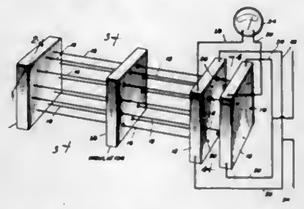
8. A battery comprising a negative plate having magnesium as the active agent, and a positive plate composed essentially of cuprous chloride and a chloride of the group consisting of silver chloride, ammonium chloride and potassium chloride.

2,640,091
BATTERY
Leo E. Pucher, South Euclid, and William A. Cunningham, Cleveland, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application July 15, 1950, Serial No. 173,966
5 Claims. (Cl. 136—100)



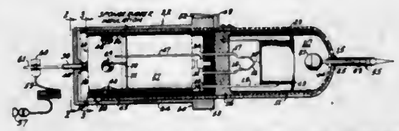
1. A battery comprising a negative plate having magnesium as the active agent and a positive plate having its active material comprising essentially hydrated cuprous chloride.

2,640,092
LOW REACTANCE SHUNT
Gilbert H. Fett, Champaign, Ill., and Robert J. La Plante, Schenectady, N. Y., assignors to the United States of America as represented by the Secretary of the Navy
Application November 17, 1949, Serial No. 127,842
6 Claims. (Cl. 171—95)



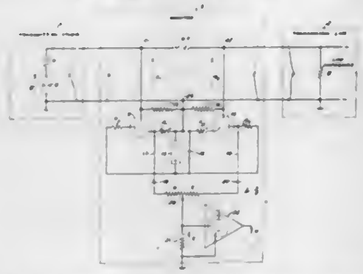
1. A low reactance shunt comprising a conductor block having a plurality of conductors each connected at one end thereto and arranged in a circle, the conductors being alternately of two different lengths, an electric terminal block to which the other ends of the shorter conductors are connected, this terminal block having perforations between the connected ends of the shorter conductors through which the longer conductors extend without contacting this block, another electric terminal block to which the ends of the longer conductors are connected, and insulating means between the conductor block and the first terminal block for engaging all of the conductors and holding them in relative spaced relation.

2,640,093
HIGH VOLTAGE MEASURING DEVICE
Edward W. Herold, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 22, 1949, Serial No. 134,557
4 Claims. (Cl. 171—95)



1. A discharge device comprising an elongated vacuum envelope containing along its interior in the order named a filamentary cathode, a control electrode and an anode; a conductive rod sealed through one end of said envelope with its outer end extending beyond the outside surface thereof as an anode terminal; said anode being supported on the inner end of said rod; said control electrode comprising a metallic cylindrical tube positioned with its axis extending in the end-to-end direction of said envelope and having an open end which faces the anode and comprises a smooth rim for minimizing field emission between said tube and the anode; said control electrode further comprising a disc-shaped closure which extends transversely to said tube and is imperforate but for a very small hole near said axis and in alignment with said cathode and anode; all the portion of said anode which faces said rim having a smooth surface for minimizing field emission between the anode and control electrode; a fluorescent coating on a surface of said anode facing the cathode; a pair of leads for said cathode; and a lead for said control electrode, all of said leads extending from the far end of said envelope from said conductive rod.

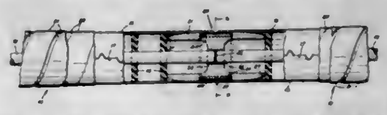
2,640,094
MONITOR SYSTEM INSENSITIVE TO IMPEDANCE VARIATIONS
Danforth K. Gannett, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1947, Serial No. 794,877
9 Claims. (Cl. 171—95)



1. A monitoring system for monitoring the signal voltage of a transmitter independent of the impedance of a load circuit to which it may be connected comprising a transmission path of two conductors for interconnecting the transmitter and the load circuit, an impedance having two terminals inserted in series with one of the conductors in said transmission path, the impedance of which is equal to a simple numerical fractional part of the transmitter output impedance, whereby a first shunt voltage exists across the transmission path on the transmitter side of said inserted impedance and a second shunt voltage exists across the transmission path on the load side, a voltage subtraction circuit comprising a voltage dividing means connected across the load side of the transmission path to derive a voltage equal to a fractional part of said second shunt voltage and also a circuit connecting said derived voltage in phase opposition to said first shunt voltage to derive a voltage equal to their difference, and an indicating means connected to said subtraction circuit for observing this difference voltage.

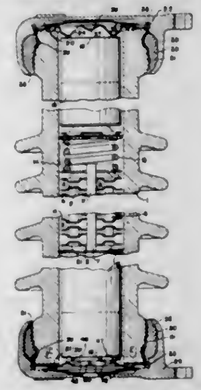
2,640,095
COAXIAL CABLE SPLICE AND METHODS OF MAKING IT
Clay E. Lewis and Harold R. Longfellow, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 8, 1949, Serial No. 75,228
8 Claims. (Cl. 174—88)

1. A splice for coaxial units each having an outer tubular conductor and an inner wire conductor disposed in concentric relation with respect to each other, which comprises a brazed joint between the wire conductors of two such coaxial units to be spliced, a non-conductive, annular member positioned over the brazed joint of the wire conductors so that it extends an equal distance into each tubular conductor, and a metallic band positioned around the annular member and brazed to the inner surface of the end portions of the tubular conductors, said annular member being of such dimensions to hold the metallic band in place against the inside sur-



faces of the tubular conductors while the band is brazed to the tubular conductors and for maintaining concentricity between the wire conductors and the tubular conductors so that the splice does not reduce the dielectric strength of or increase materially the capacitance of the cables at the splice.

2,640,096
LIGHTNING ARRESTER AND PARTS THEREFOR
John W. Kalb, Barberton, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application October 5, 1951, Serial No. 249,910
15 Claims. (Cl. 175—30)



1. A lightning arrester which includes a vertical cylindrical porcelain housing closed at the bottom by a metal casting, a snap-on cover in the center of the casting, a gasket around the ends of the opening through the housing and in contact with the respective ends of the housing, and a deformable metal element at each end of the housing which holds the respective gaskets in place, the edges of said respective metal elements being held in gas-tight contact with the housing, said metal element at the bottom of the housing resting on a spring held under compression between it and the casting, the metal element having an opening at its center in line with the axis of the housing with a depression about the opening and a ridge projecting upwardly around the depression, a thin circular copper diaprhagm domed inwardly located in the depression and so thin that it will be punctured by the pressure of gases generated within the housing on prolonged arcing, at about the longitudinal center of the housing a plurality of metal electrodes forming a spark gap pile, valve resistor blocks at each end of the housing larger in diameter than the dia-

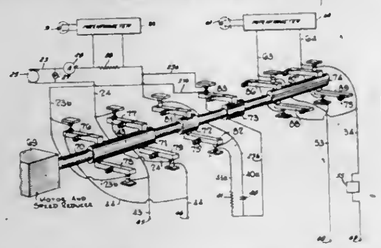
phragm, an electrically conducting spring member in the housing maintaining the elements of the spark gap pile and the valve resistor blocks in pressure contact with one another, and means on the ridge supporting the bottom valve block and spacing it above the ridge to permit gases to pass downwardly between the bottom valve block and the ridge and thence through the space occupied by the diaphragm when the diaphragm is punctured by pressure of the gases generated in the housing.

2,640,097

PRECISION SWITCHING ASSEMBLY FOR ELECTRICAL PROSPECTING

Kenneth C. Crumrine, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application October 21, 1949, Serial No. 122,632
1 Claim. (Cl. 175—182)



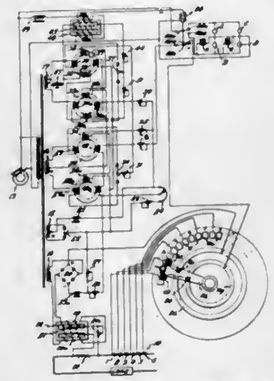
An improved switching assembly adapted to reverse the direction of current flow periodically comprising: a source of direct current, a power-driven camshaft, a plurality of cams carried by said shaft, a current make-and-break switch actuated by one of said cams, a first pair of contact switches actuated alternately by a second of said cams in such manner that each of said switches opens before the other one closes, a resistor, a capacitor, a first conducting means connecting one side of said resistor and one side of said capacitor to one terminal of said current make-and-break switch, a second conducting means connecting the second side of said resistor through one of said pair of contact switches to the second side of said capacitor, and a third conducting means connecting the second side of said capacitor to the second terminal of said current make-and-break switch through the second of said pair of contact switches, a second pair and a third pair of switches actuated by a third cam in such a manner that each of said pairs of switches opens simultaneously before the other of said pairs closes, a fourth pair and a fifth pair of switches actuated by a fourth cam in the same manner as defined with respect to said second and third pairs of switches, entering conductor leads and exit conductor leads connected to the contact points of said second and third pairs of switches in a manner that reverses the polarity of the current in said exit leads with respect to said entering leads upon the opening of one and the closing of the other of said second and third pairs of switches, said current make-and-break switch being placed in series with one of said entering leads, each of said entering conductor leads being connected to a terminal of said current source, and entering and exit potential leads connected to the contact points of said fourth and fifth pairs of switches in a manner that reverses the polarity of the exit leads with respect to the entering leads upon the opening of one and the closing of the other of said fourth and fifth pairs of switches, said cams being arranged on said camshaft in such relation that: upon rotation of said camshaft said current make-and-break switch will be open before said second contact switch is opened and said first contact switch is closed, said current make-and-break switch will close before said first contact switch is opened and said second contact switch is closed, said second contact switch will close before said current make-and-break switch is again opened, said opening and closing of said second and third pairs of switches occurs only while said current make-and-break switch is open, said fourth pair of switches are closed only during the latter portion of the period that said second pair of switches are closed and that said fifth pair of switches are closed only during the latter portion of the period that said third pair of switches are closed.

2,640,098

ELECTRIC CONTROLLING APPARATUS

Joseph Grillo, New York, N. Y., assignor, by mesne assignments, to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

Application May 27, 1948, Serial No. 29,590
8 Claims. (Cl. 175—183)



1. Electrical apparatus comprising a source of direct current, a second source of direct current, the output circuits of said sources being connected together at points of unlike polarity, a circuit connected in shunt between the connections of said output circuits, said circuit being adapted to include therein a device to be tested having its own potential difference, electromagnetic means having a winding connected in the circuit of said device for amplifying the value of the current passing in the circuit of said device, and electrical means responsive to said amplified current for indicating when said potential difference is below the electromotive force of one of said output circuits.

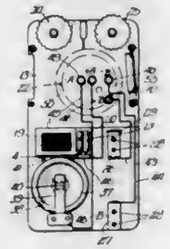
2,640,099

HEARING AID TEST STRUCTURE

Denison B. Hull, Winnetka, Ill., assignor to Otarion, Inc., Chicago, Ill., a corporation of Illinois

Application July 31, 1948, Serial No. 41,752
2 Claims. (Cl. 175—183)

1. A portable hearing aid structure comprising an insulating chassis, sets of battery terminal contacts mounted on said chassis for engagement with plus and minus "A" and "B" battery poles, respectively, two unlike sets of electrically conductive contact elements secured on said chassis, each set comprising a plurality of con-



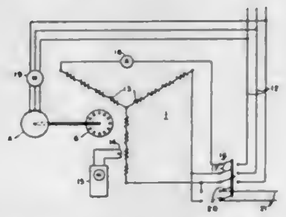
tact elements, and wiring connecting the contact elements of each of the respective sets with the respective "A" and "B" battery terminal contacts, said contact elements being engageable in electrically conducting relation by unlike sets of contact members of a meter.

2,640,100

MEANS FOR TESTING ROTORS

Lewis C. Packer, East Longmeadow, Roy H. Cross, Springfield, and George E. Monchamp, Holyoke, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 2, 1950, Serial No. 159,536
6 Claims. (Cl. 175—183)



1. Means for testing squirrel-cage rotors for broken or high-resistance bars or end rings, said testing means comprising a test stator having an exciting winding thereon, an exploring coil on the test stator adjacent said winding, means for exciting the exciting winding with direct current to produce a unidirectional magnetic field in the test stator, means for supporting a rotor to be tested in the test stator and for rotating the rotor, and means for observing the wave shape of the voltage generated in said exploring coil.

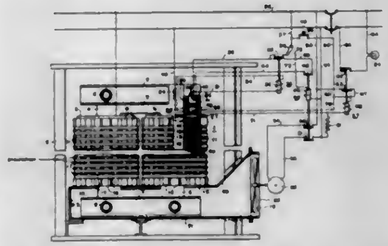
4. Means for testing squirrel-cage rotors comprising a test stator having a polyphase winding thereon, an exploring coil on the test stator adjacent said winding, means for exciting said winding with alternating current to produce a rotating magnetic field in the test stator, means for supporting a rotor to be tested in the test stator and for driving the rotor in the direction opposite to the direction of rotation of the magnetic field, means for measuring the torque required to drive the rotor, means for exciting at least a part of the test stator winding with direct current to produce a unidirectional magnetic field in the test stator, and means for observing the wave shape of the voltage generated in said exploring coil.

2,640,101

TRANSFORMER COOLING SYSTEM CONTROL

Arthur V. Hughes, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 14, 1949, Serial No. 132,923
3 Claims. (Cl. 175—356)



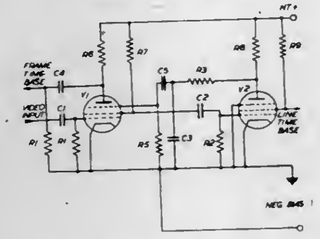
1. In electrical apparatus, the combination of a housing, a transformer core and coil assembly disposed therein, air cooling means disposed for operation to effect the cooling of the coil assembly, a signalling means disposed for operation for indicating a predetermined overload operating condition of the transformer, a control device disposed to be operated in response to predetermined temperatures of air currents rising from the coil assembly and predetermined heating effects of current flowing through the coils of the transformer, the control device including a thermally responsive means disposed for movement through two switching positions in response to variations in said temperatures and heating effects, a relay disposed to be energized in response to a predetermined flow of current through the coils and to be deenergized when the current flow through the coils decreases to a value below said predetermined flow of current, a contact member disposed to be actuated to a circuit closing position upon the occurrence of a predetermined movement of the thermally responsive means to one of said switching positions, a cooling means contactor disposed to be energized to effect the operation of the cooling means only after the relay is energized and said contact member is actuated to circuit closing position, the relay when energized cooperating with said contactor to thereafter effect the energization of the cooling means independently of movement of the thermally responsive means and when deenergized cooperating with said contactor to deenergize the cooling means, another contact member disposed to be actuated upon the occurrence of a further predetermined movement of the thermally responsive means to the other of said switching positions, a normally energized signalling contactor disposed for operation in response to the actuation of said another contact member to effect the operation of the signalling means, said another contact member being disposed when actuated to effect the deenergization of the signalling contactor to thereby effect the operation of the signalling means independently of further movement of the thermally responsive means, and switch means disposed to be manually actuated for operation to energize the signalling contactor to effect the discontinuation of operation of the signalling means.

2,640,102
CURRENT TRANSFORMER
Charles A. Woods, Jr., and Charles C. Sterrett, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 6, 1950, Serial No. 199,463
5 Claims. (Cl. 175—358)



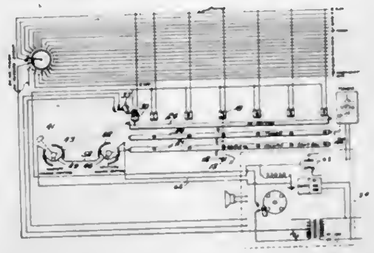
1. In combination, a bushing for the leads of electrical apparatus, a current transformer mounted on the bushing, the current transformer comprising, an annular housing of lightweight non-magnetic metal, the housing having a back plate portion and a flange member extending outwardly therefrom about the outer periphery thereof, the back plate portion having a central opening therein for receiving a bushing, a cylinder of laminated fibrous material impregnated with a resinous binder disposed to extend outwardly from the periphery of the central opening in the back plate portion to cooperate therewith and with the flange member to provide a channel, windings disposed in the channel, and a completely reactive solidified thermoset resinous composition completely embedding and in intimate contact with the windings to fill the channel and maintain the windings in assembled relation in the housing.

2,640,103
SYNCHRONIZING SIGNAL SEPARATOR
Desmond Reginald Clements, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 13, 1952, Serial No. 271,362
In Great Britain February 19, 1951
1 Claim. (Cl. 178—7.3)



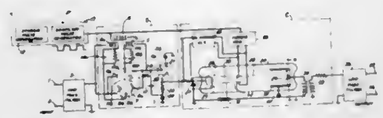
A circuit for separating line and frame synchronising pulses in a television receiver comprising means for applying all the said pulses to one input circuit of a pentode electric discharge device, means for feeding an output from said pentode to the input circuit of a second electric discharge device, means for applying the output from said second device to another input circuit of said pentode through an integrating circuit such that the combination of a frame pulse and an integrated frame pulse produces a second output from said pentode, means for deriving line synchronising pulses from an output of said second device and means for deriving frame synchronising pulses from an output of said pentode.

2,640,104
VOLUME CONTROL
Freeman H. Owens, New York, N. Y.
Application August 18, 1948, Serial No. 44,851
10 Claims. (Cl. 178—44)



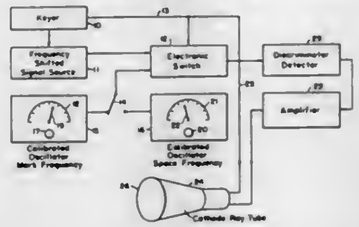
4. Volume control apparatus comprising in combination station selecting slides, a critical volume control, means on said slides for adjusting said critical volume control to different values, a master volume control connected to vary the volume from that determined by the critical volume control and provided with means for manual adjustment of the same and means operated by said slides for automatically returning said master volume control to a predetermined neutral condition each time one of said slides is operated.

2,640,105
WAVE TRANSMISSION SYSTEM AND METHOD FOR SYNTHESIZING A GIVEN ELECTRICAL CHARACTERISTIC
William R. Bennett, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 10, 1947, Serial No. 779,113
8 Claims. (Cl. 178—44)



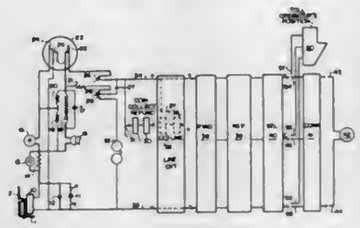
7. The method of signal translation which comprises continually deriving from an input signal regularly spaced samples varying in amplitude from one to another in conformity with and simulation of the variations in the amplitude of said signal, separately generating a corresponding succession of regularly spaced pulses all of the same predetermined shape, varying the magnitude of the successive pulses under the control of and in accordance with the magnitude of corresponding successive signal samples, combining the said pulses of varying magnitude and uniform shape to form an output signal, and removing from said output signal any frequency components lying above the frequency range occupied by said input signal.

2,640,106
INSTANTANEOUS FREQUENCY MONITOR
William R. Wilson, Ellicott City, Md., and Junius B. Reynolds, Princeton, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 15, 1950, Serial No. 162,098
4 Claims. (Cl. 178—69)



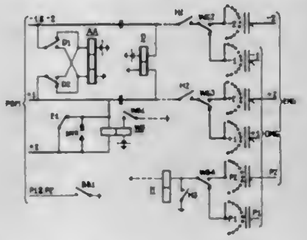
3. A monitor for measuring the frequency of a frequency shift keying system having a keyer comprising: an oscillator; a detector; means for alternately switching the signal from the source and the signal from the oscillator to said detector; a cathode-ray oscilloscope connected to the detector and to the keyer so as to have a sweep synchronizing with the keyer, and to provide patterns on its screen which have amplitudes corresponding to the voltages from the detector resulting from the two signals supplied thereto; means for adjusting the oscillator until the amplitude of the pattern on said screen corresponding to the frequency of its signal is equal to the amplitude of the pattern on said screen corresponding to the frequency of the signal from said source, and means for determining the frequency of the oscillator.

2,640,107
TELEPHONE PAY STATION CIRCUIT
Clarence E. Lomax, Chicago, and Ray John Gallagher, River Forest, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application April 13, 1951, Serial No. 220,778
3 Claims. (Cl. 179—6.3)



2. In a telephone paystation, a line, a finder-repeater link for seizing said line, means for supplying reverse battery to said line, a transmitter, a coin channel having retaining surfaces leading to a hopper, a portion of one of said retaining surfaces comprising a flexibly mounted coin controlling spring, said spring and channel normally positioned so that coins will not be retained within said channel at one time, a control relay in series with said transmitter for flexing said spring to retain coins within said channel at other times, and a rectifying device connected in parallel with said relay, said rectifying device preventing said relay from operating upon seizure by said finder-repeater link, said relay thereafter operating responsive to the operation of said reverse battery means.

2,640,108
WIPER-SWITCHING SELECTOR
Reginald Taylor, Liverpool, England, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application November 3, 1949, Serial No. 125,299
In Great Britain November 11, 1948
12 Claims. (Cl. 179—18)

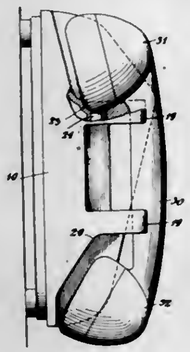


1. In a group selector for use in a telephone system, a first relay arranged to be operated intermittently in response to a train of impulses for setting the switch, a stepping magnet, a set of wipers including a first wiper and a second wiper, a second relay arranged to render effective one or both of said first and second wipers determined by its state of de-energization or energization, a first winding on said second relay, means for energizing said second relay by way of said first winding in series with said stepping magnet in response to the first re-energization of said first relay, a second winding on said second relay, means for maintaining said second relay operated over said second winding during the subsequent de-energization of said first relay and means for preventing the completion of the initial circuit through the first winding of said second relay when said first relay again energizes.

2,640,109
TELEPHONE INSTRUMENT
Paul T. O'Neil, Englewood, N. J., assignor to Connecticut Telephone and Electric Corporation, Meriden, Conn., a corporation of Delaware
Application November 1, 1950, Serial No. 193,378
7 Claims. (Cl. 179—100)

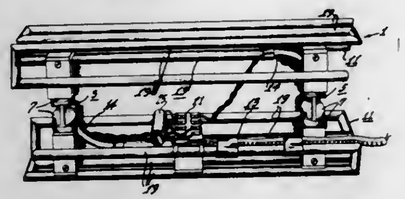
1. A telephone instrument including in combination a base, a cradle portion forming a part of said base to support a hand set, said base being formed with recessed surfaces beyond the ends of said cradle portion to accommodate the transmitter and receiver units of a hand set, a projecting portion forming a part of said base and interposed between the cradle portion and

one of the recessed surfaces, to provide a fulcrum for the surface of that unit of a hand set which extends into the adjacent base recess and



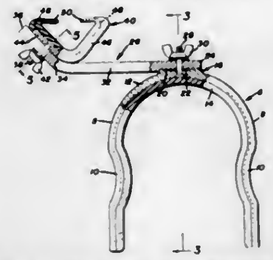
a switch-actuating member mounted by said base and extensible beyond said cradle portion to be engaged by said hand set.

2,640,110
SECOND ORDER GRADIENT DIRECTIONAL MICROPHONE
Harry F. Olson, Princeton, and John Preston, Metedeconk, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application October 29, 1949, Serial No. 124,461
8 Claims. (Cl. 179—115.5)



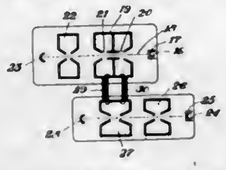
1. A sound translating device comprising a pair of microphone units each of which comprises (1) a magnetic structure having an air gap with a magnetic field therein, (2) a conductive element mounted in said field for vibration in response to acoustical waves, and (3) means closing one side of said conductor providing acoustic resistance and inertance to sound waves approaching said conductor from said one side, and (4) a pair of labyrinth pipe structures, each of said pipe structures being associated with a separate one of said microphone units, said means for closing one side of each of said conductors constituting coupling means between said conductors and their respectively associated labyrinth pipe structures, said conductors being disposed in spaced apart relation, and means for effectively connecting the signal output voltages of said microphone units in opposite phase relation, said last mentioned means including means connected in circuit with one of said microphone units for cancelling the signal output voltage thereof above a predetermined frequency.

2,640,111
SHOULDER SUPPORT FOR TELEPHONE HAND SETS
Abraham Samsky and Esther A. Samsky, Detroit, Mich.
Application November 23, 1951, Serial No. 257,715
2 Claims. (Cl. 179—157)



1. Support means for a telephone hand set wherein the hands of the user are free comprising a rigid linearly straight set positioning arm having one end upwardly inclined at an oblique angle, said end being bifurcated and providing furcations, an inverted U-shaped shoulder embracing yoke including a substantially rigid bight portion and resilient limb portions adapted to embrace the parts of the wearer, an adapter cradle designed to releasably engage the handle portion of the hand set, a bolt fixed to and projecting laterally from one of the end portions of said cradle, said bolt being adapted to fit between said furcations and being provided with a clamping nut whereby said cradle is detachably connected with said laterally directed ends.

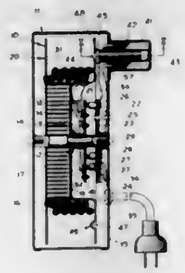
2,640,112
ULTRAHIGH-FREQUENCY ELECTRON TUBE
Emile Touraton and René Zwobada, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 14, 1948, Serial No. 65,104
In France December 31, 1947
3 Claims. (Cl. 179—171)



2. A velocity modulation electron discharge tube comprising a cathode and a collector electrode defining an electron beam path therebetween, a first and a second cavity resonator mounted about said beam path and each having an opening therealong adjacent said cathode for velocity modulating electrons in said beam, said resonators including a coupling means therebetween having an effective electrical length such that the transit angle of an electromagnetic wave traversing said coupling means and that of the electrons in said beam between said resonators differs by π times an odd number, means communicating with said resonators at a distance from both said openings for introducing signal modulation of ultrahigh frequency into said resonators, and a third resonator mounted about said beam path between said first-mentioned

resonators and said collector electrode for absorbing ultrahigh frequency energy from said beam, said signal introducing means comprising an additional cathode and another electrode defining an electron beam path therebetween and an additional cavity resonator mounted about said last named beam path for absorbing ultrahigh frequency energy from velocity modulations of said beam, said additional cavity resonator being coupled to said first and second resonators at points thereof at substantially equal electrical distances from the respective openings thereof, the intensity of the beam from said additional cathode being less than that of the beam from said first-mentioned cathode.

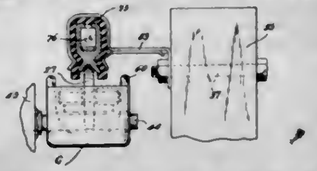
2,640,113
SOLENOID CONTROLLED CORD REEL
Rodger F. Becker, Kalamazoo, Mich.
Application January 25, 1950, Serial No. 140,492
1 Claim. (Cl. 191—12.2)



A selectively operable uni-directional brake for controlling the rotation of a reel for electrical cord, said reel having a drum and a spring adapted to rotate said drum in a direction to wind said cord thereon, said drum having a plurality of openings in one side, one edge of each of said openings having an inclined trough away from said opening in the direction of rotation of said drum as it winds up said cord, said brake comprising: a solenoid including a plunger and a spring urging said plunger into said openings in said drum; said cord being of the three conductor type having a primary circuit and a secondary circuit utilizing a common conductor; said secondary circuit being connected to said solenoid; a switch in said secondary circuit at the end of said cord remote from said drum, whereby said solenoid may be activated from said remote end of said cord without interference with said primary circuit.

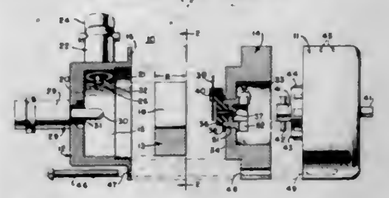
2,640,114
SHOCKPROOF CONDUCTOR FOR ELECTRIFIED MATERIAL HANDLING APPARATUS
William G. Wehr, North Madison, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application May 21, 1948, Serial No. 28,367
8 Claims. (Cl. 191—23)

1. A length of shockproof conductor for an electrified material handling apparatus including a movable carriage, said length of conductor comprising a rigid rod-like member substantially uniform in transverse cross-section made of material of high electrical conductivity and having a longitudinal groove in one side extending from end to end of the member a surface of which groove is adapted to be engaged by a current collector carried by a movable carriage of the material handling apparatus, said rod-like member having a longitudinal aperture also extending from end to end thereof, said longitudinal aperture being of non-circular shape in transverse cross-section, said length of conductor also comprising a channel-like member substantially uniform in transverse cross-section made of electrical insulating material, said channel-like member enclosing said rod-like member except for the end faces thereof and said groove, whereby said length of conductor can be transversely cut



at any place between its ends and the ends of the resulting lengths of conductor will be of substantially the same in configuration as those of the original length of conductor and lengths of said conductor can be assembled in abutting relationship with each other with one length forming a continuation of another and mechanically and electrically connected together by a connector member having its transverse cross sectional configuration of substantially uniform size and shape as that of said aperture inserted into the ends of said apertures in adjoining ends of adjacent lengths of conductors and enclosed therein.

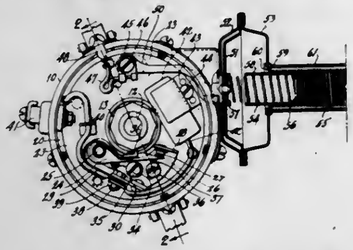
2,640,115
ELECTRICAL SWITCH
Carl W. Conselman, Brookfield, Conn., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application May 1, 1951, Serial No. 224,045
5 Claims. (Cl. 200—6)



1. An electrical switch for selectively connecting a first high-frequency wave-signal coaxial transmission line to either of a pair of such lines comprising: a support having a chamber defined by conductive walls; a pair of coaxial connectors for individual connection to said pair of transmission lines and having outer conductors conductively connected to said chamber walls and extending therefrom in substantially the same plane and having inner conductors extending into said chamber; a third coaxial connector for connection to said first transmission line and having an outer conductor conductively connected to said chamber walls and extending therefrom substantially normal to said plane and having an inner conductor extending into said chamber; said chamber walls having portions which are effectively tangential to said outer conductors of said pair of con-

nectors and having a dimension normal to said plane which is approximately equal to the diameter of said outer conductors of said pair of connectors; and a movable selector mounted on said support for conductively connecting said inner conductor of said third connector to the inner conductor of either of said pair of connectors.

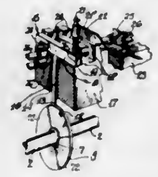
2,640,116
IGNITION TIMER
John W. Dyer, Pendleton, and Raymond A. Wilkins, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 3, 1949, Serial No. 125,178
3 Claims. (Cl. 200—31)



1. An ignition timer having an engine driven cam, a circuit breaker operated thereby to time the ignition, a plate supported for rotation about the axis of the cam and carrying the circuit breaker, and an engine controlled suction device for moving the plate in one direction to advance ignition timing and including a flexible, fabric diaphragm connected with the plate and forming a deflectible wall of a suction chamber having a fixed wall adapted to be connected with the engine intake, two helical coil springs in tandem relation for opposing movements of the diaphragm to advance the ignition, the first spring having a relatively high rate of build-up and the second spring having a relatively low rate of build-up, a movable stop between which and the diaphragm the first spring is held under initial compression by relatively small amount of deflection from its free length, a fixed abutment against which the movable stop is maintained by the second spring, and a fixed stop between which and the movable stop the second spring is maintained under initial compression by a relatively great amount of deflection from free length the initial compression of the first spring being less than that of the second spring, whereby the first spring has control over the first part of diaphragm movement from initial position and thereafter, when compression of the first spring has been built up to equal the initial compression of the second spring, the second spring has principal control of diaphragm movement.

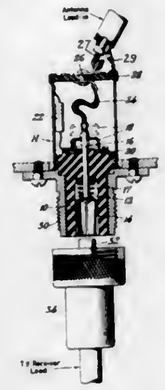
2,640,117
MULTIPLE TIME SWITCH
Joseph Camille Rivet, Montreal, Quebec, Canada
Application February 7, 1952, Serial No. 270,408
6 Claims. (Cl. 200—33)

1. A time switch mechanism comprising a frictionally rotated disc having a notch at its periphery, an elongated member adapted to take a first position engaging said notch to stop rotation of said disc and a second position resting on the periphery of said disc, a side extension on said member, means engageable with said extension to raise and pivot said member from said first to said second position, electric contacts associated with and operated by said member and



a rack member for said elongated member having a bore with flaring walls for receiving said elongated member, said rack member being disposed between said disk and said side extension.

2,640,118
COAXIAL CABLE CONNECTOR
Edwin G. Werner, Park Ridge, N. J.
Application December 15, 1950, Serial No. 200,979
5 Claims. (Cl. 200—51.10)

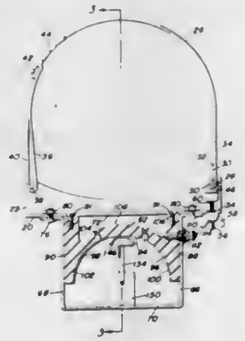


4. A coaxial cable connector comprising a metallic housing closed at one end and having a terminal for attachment to a coaxial cable; an insulating bushing in the other end of said housing having a cavity therein; a female receptacle movably mounted in said cavity; resilient means mounted between said receptacle and said bushing; a rigid conductor connected to said receptacle and extending through an aperture in said bushing; a flexible conductor connected to said rigid conductor and to said terminal; a contact member carried by said rigid conductor; a second contact member on said bushing; and a fixed resistor connected to said second contact member and to the wall of said housing; said resilient means urging said contact members into electrical contact with each other when said receptacle is empty.

2,640,119
FLAT TIRE SIGNAL DEVICE
John R. Bradford, Jr., Lordsburg, N. Mex.
Application August 9, 1950, Serial No. 178,486
2 Claims. (Cl. 200—58)

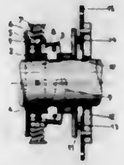
1. A tire deflation indicating device comprising a housing adapted to be mounted on the axle

housing of a vehicle, a ground-contacting element pivotally and slidably mounted in said housing, said ground-contacting element being pivoted upon contact with the ground when the tire is deflated, contact means in said housing engageable by said ground-contacting element when in pivoted position for completing an electrical circuit and indicating a deflated tire, said ground-contacting element including an angu-



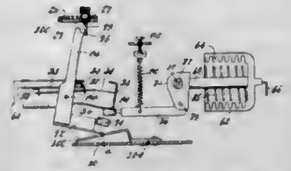
lated member having its angulated portion received in slots in the walls of said housing, a spring contact element fixed to the upper end of an upstanding rod on said angulated portion and adapted to be in engagement with said contact means when the tire is deflated, and resilient means for normally urging said ground-contacting element to a neutral position when the tire is inflated.

2,640,120
CENTRIFUGAL SWITCH
Fritz Heinzmann, Albershausen, Kreis Goeppingen, Wurttemberg, Germany
Application February 28, 1951, Serial No. 219,449
In Germany March 17, 1950
1 Claim. (Cl. 200—80)



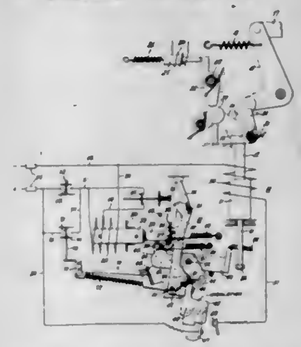
Centrifugal switch comprising a support fitted to the shaft, two weights pivotally connected with said support, pressure springs adapted to oppose the outward movement of said weights and having their outer ends in contact with nuts and their inner ends in contact with movably seated spring supports, said nuts being screwed on to stay bolt screws firmly fixed to said support, said spring supports being movably seated in said weights, a sleeve slidingly seated on the shaft and movably connected with said weights, a conducting ring fixed to said sleeve, a contact bearer fixed to the stationary centrifugal switch casing, two contacts fixed to said contact bearer, conducting bars fixed to said contact bearer and connected with said contacts.

2,640,121
TIME-PRESSURE CONTROL
Harold S. King, Goshen, Ind., assignor to Penn Controls, Inc., Goshen, Ind., a corporation of Indiana
Application July 29, 1950, Serial No. 176,649
8 Claims. (Cl. 200—81.5)



1. In a time-pressure control of the character disclosed, a control device having an operative position, pressure operated means operable upon pressure reduction to move said control device away from said operative position and toward but not to, inoperative position whereby to minimize the energy required to finish the movement thereof to inoperative position, stop means to render said pressure operated means incapable of finishing such movement, a timer controlled element operable to finish such movement by means of energy supplied by the timer, said pressure operated means being operable upon pressure increase to a predetermined value to effect movement of the control device again to operative position.

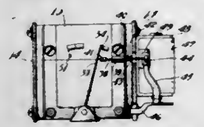
2,640,122
TRANSITORY LATCHING SWITCH MECHANISM
John A. Oppel, Aldan, and Edward J. Frank, Springfield, Pa., assignors to General Electric Company, a corporation of New York
Application November 21, 1950, Serial No. 196,924
8 Claims. (Cl. 200—98)



7. A transitory latching switch mechanism having in combination a movable switch member biased to one position, a roller carried by said member, a reversely movable operating member having a latch pivoted thereon for engaging the roller to operate the switch member to another position upon movement of the operating member in one direction, stop means for releasing the latch from the roller in said other position, a second latch biased into engagement with the roller in said other position for holding the switch member in said other position, means connected with the operating member for releasing the second latch upon return movement of the operating

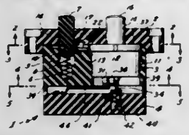
member in the opposite direction, and an independently operable member for releasing the second latch having electroresponsive operating means connected to be energized upon movement of the switch member to the other position.

2,640,123
SMOKE DETECTOR RELAY AND RESETTING MECHANISM
Clarence Noel Cahusac, Newark, and Frank B. Allen, Towaco, N. J., assignors to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Original application July 13, 1945, Serial No. 604,892, now Patent No. 2,464,211, dated March 15, 1949. Divided and this application February 3, 1949, Serial No. 74,342
1 Claim. (Cl. 200—110)



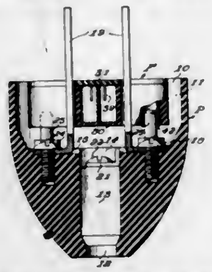
A smoke detector resetting relay comprising a frame, a relay coil supported by the frame, pivotal mounting means on the frame, a swingable relay switch arm carried by the pivotal mounting means, a contact carried by the arm, a fixed contact to cooperate with the movable contact, magnetic material incorporated with one of said contacts to hold the contacts together after contact has been made therebetween, a resetting rod to separate the moving contact from the fixed contact, a knob at the outer end of the resetting rod, means at one end of the relay frame providing a bearing member for the reciprocation of the resetting rod, resilient means to urge the resetting rod away from the movable contact, a vertically positioned resetting coil positioned at the side of the frame adjacent the resetting rod, a resiliently-urged swingable resetting coil armature positioned under the resetting coil and movable upwardly thereagainst, a resetting rod actuating member extending from a side of the armature and adapted to engage the knob of the resetting rod to move it inwardly to cause the separation of the contacts, and a stop arm for the resetting rod actuating member to limit its swing so that the armature is held within operating distance of the resetting coil.

2,640,124
COMBINED STARTING AND PROTECTIVE SWITCH
Victor G. Vaughan and Robert G. Mawney, Attleboro, Mass., and James A. Bagnall, Dearborn, Mich., assignors to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application March 21, 1950, Serial No. 150,832
23 Claims. (Cl. 200—113)



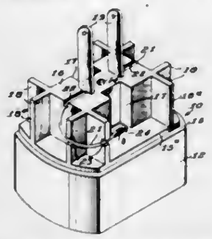
1. A combined starting and protective switch for an electrical motor, comprising a first base, first contact means carried by said base, unitary protective means carried by said base and movable from a non-contact-making position to two contact-making positions, said protective means comprising a second base with second contact means mounted thereon and manually resettable current responsive means carried by said second base for electrically connecting and disconnecting said second contact means, said second contact means electrically engaging said first contact means when said protective means is in one of its said positions and being electrically disengaged from at least one of said first contact means when said protective means is in another of its positions, and latch means operable to hold said protective means in said one position.

2,640,125
EXTENSION CORD PLUG WITH REPLACEABLE FUSE ELEMENT
Charles E. Eggers, Great Neck, N. Y.
Application August 31, 1951, Serial No. 244,505
13 Claims. (Cl. 200—115.5)



1. A combination electric plug and fuse comprising a body member having a recess in one end thereof, a cord receiving aperture in the opposite end thereof communicating with said recess, a pair of spaced contact plates secured by binding posts to the base of said recess, a second pair of contact plates secured to the base of said recess in spaced relation to each other and said first plates, a socket engageable prong unitary with each of said last plates, a cylindrical contact pin projecting from each plate toward the open end of said recess in parallelism with the axis of said aperture, and a fuse unit removably seated in said recess and provided with tubular contact members removably receiving said cylindrical contact pins.

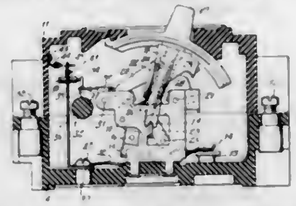
2,640,126
FUSE ADAPTER PLUG
Charles E. Eggers, Great Neck, N. Y.
Application January 30, 1952, Serial No. 269,048
7 Claims. (Cl. 200—115.5)



1. A fuse adapter plug comprising a body member having a pair of wall socket engageable

prongs extending thereinto and from one face thereof, a pair of openings for receiving the prongs of a connector plug extending into said body member from another face thereof, a contact plate disposed in each of said openings and having a ledge overhanging the inner end thereof, fuse elements interconnecting the ledges of said contact plates and said prongs, and a cover supported on said body member over said fuse elements and including pressure block portions reacting upon said ledges for retaining the contact plates against relative movement in said openings.

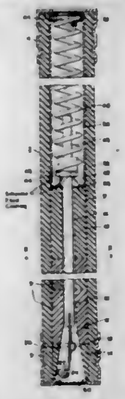
2,640,127
ELECTRIC CIRCUIT BREAKER
Raymond N. Rowe, Plainville, and Robert G. Page, New Britain, Conn., assignors, by mesne assignments, to General Electric Company, a corporation of New York
Application December 24, 1949, Serial No. 134,966
6 Claims. (Cl. 200—116)



1. In a circuit breaker having separable switch contacts movable between open and closed circuit positions, a tripping member movable when released to effect separation of said contacts, latch means normally engaging said tripping member to restrain its movement and movable to release said tripping member, a pair of thermally deformable bimetal arms heated in response to the current passing through said contacts and movable to actuate said latch means to release said tripping member, said arms being disposed in parallel spaced relation and having adjacent ends mounted to provide movement of their opposite free ends in opposite directions when heated, a rotatable member pivotally mounted between said free ends of said arms and engaged by said free ends on opposite sides of its pivot point thereby to be rotated in one direction by opposite thermal deformation of said bimetallic arms, said rotatable member preventing shock responsive deflection of both said free ends in a like direction.

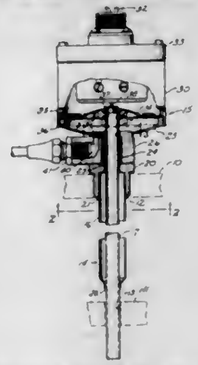
2,640,128
CIRCUIT INTERRUPTER
Harold H. Fahnoe, Wilkinsburg, and William J. Paxton, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 2, 1952, Serial No. 285,694
7 Claims. (Cl. 200—120)

1. In a circuit interrupter adapted for service in a circuit at a voltage high enough to form corona, in combination, a tubular enclosure of insulating material having terminals adjacent opposite ends thereof, said terminals being electrically connected by conducting means disposed within said enclosure, said conducting means including fusible interrupting means capable of automatically interrupting the circuit in response to predetermined electrical conditions, a filler within the tube comprising a solid insulating material which is capable of evolving an arc-extinguishing gas when in proximity with an electric arc, a restricted bore through said filler, a movable arcing contact rod in said bore normally held against movement by said interrupting means, biasing means for moving the arcing



contact through the bore in response to operation of the interrupting means, and a coating of silicone varnish applied to at least the arcing contact rod, and interrupting means to prevent formation thereon of detrimental corrosion deposits caused by corona.

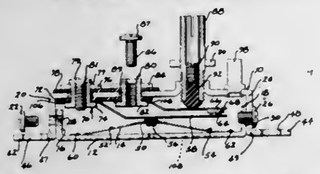
2,640,129
TEMPERATURE RESPONSIVE SWITCH
George A. Starbird, Agoura, Calif., assignor to Meletron Corporation, Los Angeles, Calif., a corporation of California
Application April 15, 1950, Serial No. 156,145
9 Claims. (Cl. 200—137)



1. A temperature actuated switch which includes: a mounting; a switch attached to said mounting; a first tubular member rigidly attached to said mounting and extending therefrom into a medium whose temperature is to be measured; a second member, within said first tubular member, having a coefficient of thermal expansion different from that of said first tubular member, rigidly connected to said first tubular member at a point remote from said mounting and extending therefrom to a point adjacent said switch; means including a passageway through the interior of said second member for positively conducting fluid therethrough at all times to

maintain said second member at a substantially constant temperature despite variations in the temperature of said medium, said fluid passing but once through said second member before being discharged therefrom at a point remote from said mounting; and means on the end of said second member positioned to bear against the actuating member of said switch to operate the latter.

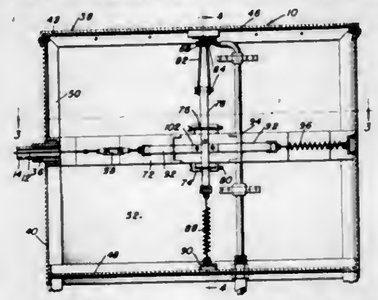
2,640,130
THERMOSTAT
Frank Reingruber, Yonkers, and Joseph Reingruber, New York, N. Y.
Application May 20, 1950, Serial No. 163,266
3 Claims. (Cl. 200—137)



1. In a thermostat, a temperature responsive mechanism, a switch mechanism controlled by the temperature responsive mechanism, said switch mechanism comprising a first spring element tensioned against the temperature responsive mechanism and a second spring element tensioned away from said first spring element, said spring elements being longitudinally separated from each other and carrying registering contacts, a first rivet terminal, said first rivet terminal having a squared shoulder, said first spring element having a squared opening therein, said squared shoulder inserted in said squared opening to hold said first spring element in position in the thermostat, a second rivet terminal, said second rivet terminal having a squared shoulder and said second spring element having a second squared opening therein, said second squared shoulder inserted in said second squared opening to hold said second spring element in position in the thermostat, an insulating plate having longitudinally separated, squared openings receiving the squared shoulders of said rivets and thereby holding said spring elements longitudinally separated with the contacts carried thereby in registration, said rivets being held non-rotatably in said insulating plate through engagement of the squared shoulders in the squared openings in said plate and said non-rotatably held rivets being internally tapped, and terminal screws engaged in said internally tapped rivets and rotatable to secure terminal wires without turning the rivets or the spring elements carrying the contacts.

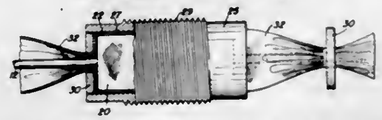
2,640,131
SLIDE DETECTING APPARATUS
Lawrence D. Cole, Steubenville, Ohio, assignor of one-fourth to James H. McHugh, Steubenville, Ohio
Application August 9, 1951, Serial No. 241,031
6 Claims. (Cl. 200—161)

1. In a land slide detecting apparatus, an elongated slide detecting cable, a support, a switch movably mounted on said support, a switch actuating member attached to said switch, means yieldingly urging said switch actuating member into switch closing position, a rod attached to said cable and mounted for axial movement in a direction transverse the direction of movement of said member, a block in said rod engaging said member to prevent movement of said member into switch closing position, said block having a



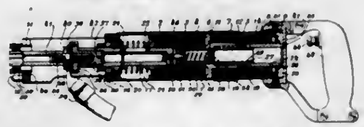
length sufficient to prevent release of said member in response to thermal expansion and contraction of said cable.

2,640,132
ELECTRICAL RESISTOR AND METHOD OF MAKING SAME
Melvin Arnold Thom, Rochester, N. Y.
Application March 27, 1951, Serial No. 217,785
14 Claims. (Cl. 201—67)



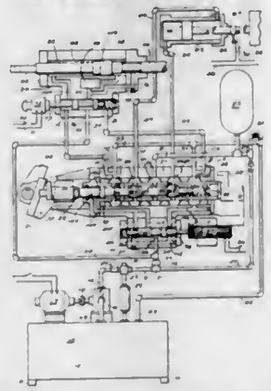
1. The method of producing an electrical resistor which comprises placing a wire-wound body, that has conductors extending centrally outwardly from its ends, in a porous, flexible sleeve made of electrical-insulating material and which is longer than said body, impregnating said sleeve with an electrical-insulating material, heating the whole to make the second-named insulating material plastic, inserting the whole into a tightly-fitting bore in a metal housing by first inserting one end of said sleeve into said bore and then pulling on said one end of said sleeve to pull the whole into said bore, and then baking the assembly.

2,640,133
APPARATUS FOR ELECTRIC ARC STUD WELDING
Arthur Ratcliffe Ainsworth and James Binnie Miller, London, England, assignors to Cyc-Arc Limited, London, England, a British company
Application March 27, 1950, Serial No. 152,136
In Great Britain April 6, 1949
12 Claims. (Cl. 219—4)



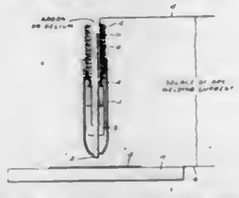
1. Electric arc welding apparatus for welding studs to plates, comprising a body, a stud chuck carrier axially movable in the body and consisting of two co-axial relatively movable parts, a coupling member connecting the two parts and determining the maximum distance of their possible separation and yieldable means acting to separate the parts to such maximum distance, clutch means within the body and operable to effect clutching engagement with the inner part of the stud chuck carrier to immobilize the said inner part and electromagnetic means for attracting the outer part into contact with the inner part.

2,640,134
HYDRAULIC FLASH WELDER CONTROL
Kingsley A. Doutt, Detroit, Mich.
Application October 12, 1950, Serial No. 189,835
8 Claims. (Cl. 219—4)



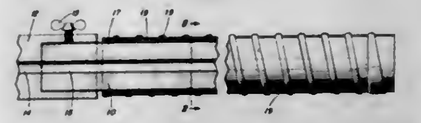
1. Hydraulic control apparatus for a flash welder having a normally fixed platen and a movable platen operated by a fluid pressure motor, said apparatus acting to control the movement of the movable platen during a welding cycle and comprising in combination a source of hydraulic fluid under pressure, a valve for controlling the flow of fluid from said source to said motor, said valve having two relatively movable valve elements, a secondary fluid pressure operated motor, variable motion transmitting mechanism interconnecting said secondary fluid pressure operated motor and said valve elements to move said valve elements relatively in such manner that the movement of the platen will follow a predetermined position-speed relationship during the flashing period of said cycle.

2,640,135
ELECTRODE
James D. Cobine, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 30, 1950, Serial No. 152,973
12 Claims. (Cl. 219—8)



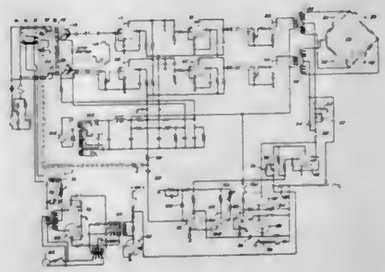
11. A sintered non-consumable electrode which is capable of starting an arc instantly and maintaining a stable arc, said electrode comprising one hundred parts by weight of tungsten and five to forty-five parts by weight of thoria.

2,640,136
ELECTRODE FOR UNDERWATER CUTTING
Bela Ronay, Annapolis, Md.
Application January 30, 1947, Serial No. 725,177
13 Claims. (Cl. 219—15)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An electrode for electrical arc cutting apparatus, comprising an elongated main body of siliconized silicon carbide, and a metallic sheath of appreciable thickness surrounding the main body of the electrode and closely interfitting therewith, the said sheath extending longitudinally of the electrode body for at least a substantial part of the length of the said body, whereby an electrical connecting means attached to the electrode substantially at one end thereof makes contact with the said metal sheath, the said sheath constituting a low resistance path for the current from the point of attachment of the electrical connecting means to at least substantially the working end of the electrode.

2,640,137
TEMPERATURE CONTROL SYSTEM
Raymond W. Ketchledge, Middlesex, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 15, 1950, Serial No. 195,821
6 Claims. (Cl. 219—20)



1. In furnace control apparatus, a workpiece having outer and inner surfaces, furnace means for electrically heating the inner surface of said workpiece to a predetermined temperature, a fixed radiation source, a radiation sensitive element positioned to receive radiations from the outer surface of said workpiece and from said fixed source, means for alternately directing radiations from the outer surface of said workpiece and from said fixed source upon said element to produce direct-current voltages of different amplitudes, means for changing said direct-current voltages into an alternating voltage the phase

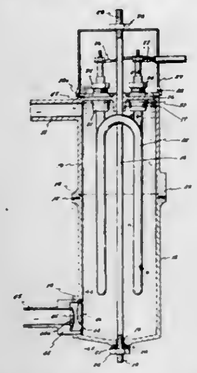
of which and the magnitude of the positive and negative portions of which vary in accordance with the magnitude of radiations received from the outer surface of said workpiece and from said fixed source, means for rectifying said alternating voltage to produce a unidirectional voltage the magnitude of which is proportional to the magnitude of said alternating voltage and the polarity of which varies in accordance with the phase of said alternating voltage, a space discharge device having input and output circuits, means for impressing said unidirectional voltage and a substantially constant biasing voltage on said input circuit to produce a current of varying magnitude in said output circuit, means responsive to the current in said output circuit for varying the energy level of said furnace means in accordance with the magnitude of said current, and for deenergizing said furnace means when the magnitude of said current is substantially zero, a source of potential, means responsive to the attainment of said predetermined temperature at said inner surface for applying potential from said source to said input circuit to cause said biasing voltage to assume a new value and thereby cause the magnitude of the current in said output circuit to become substantially zero.

2,640,138

HEATER FOR THE COOLANT LIQUID OF INTERNAL-COMBUSTION ENGINES

Jack A. Merritt, Spokane, Wash., assignor to Universal Engine Heater Company, Spokane, Wash., a corporation of Washington

Application October 26, 1951, Serial No. 253,412
2 Claims. (Cl. 219—38)



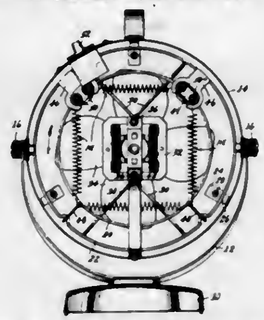
1. A heater for the coolant liquid of internal combustion engines comprising a vertically extending liquid tight casing, heating means in the casing, a liquid inlet to the lower portion of the casing, a check valve in said inlet operable to substantially close said inlet to liquid flow from the casing, and an outlet at the side of the casing immediately below the top thereof, the top of the outlet being spaced below the inner top surface of the casing to trap a small quantity of gas in the casing above the outlet, said inlet having a flat seat for said valve and the valve comprising a circular sheet cupped to present a concave face toward the inlet, the rim of said sheet being deformed to provide leak passages between the rim and said seat when the rim is held against the seat.

2,640,139

AIR FAN HEATER

Max E. Lautner, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware

Application March 17, 1951, Serial No. 216,168
11 Claims. (Cl. 219—39)



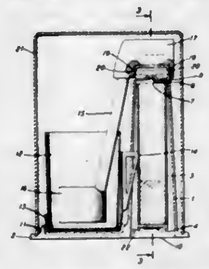
7. In an air fan heater, a tubular casing, a generally circular wire frame therein of somewhat smaller diameter than the inner diameter of said casing, at least three bracket connections from said frame and extending directly to said casing, a pair of V-shaped wires having the ends of the V's connected to said frame at points intermediate said bracket connections and having apex portions extending inwardly relative to said casing, a fan motor supported by said apex portions of said V-shaped wires, a plurality of heating element supports carried by said frame and projecting toward the center of said casing, and a heating element supported by said heating element supports and surrounding said motor.

2,640,140

PORTABLE HOT BEVERAGE PREPARATION APPARATUS

Theodor Stiebel, Holzminden, Germany

Application December 6, 1950, Serial No. 199,391
1 Claim. (Cl. 219—43)



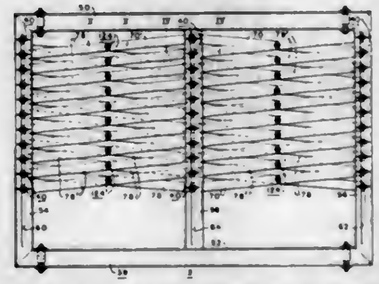
Portable hot beverage preparation apparatus comprising a base, an upright integral with the base, a beverage container, a rim edge integral with the base and adapted to receive the bottom region of the beverage container, an electric immersion heater comprising a heater, a shaft and a formed handle, the heater extending from the lower end of the shaft in substantially the opposite direction relative to that in which the formed handle extends from the upper end of the shaft, a saddle on the upper end of the upright, the formed handle having a surface adapted to fit snugly on the surface of the saddle, a plurality of spring pressed members extending outwardly from the upright in the saddle region thereof, a plurality of depressions adapted to be engaged by the spring pressed members and positioned in the fitting surface of the formed handle, the members engaging the depressions when the fitting handle surface is snugly on the saddle with the heater in its predetermined position within the beverage container, at least one of each of the spring pressed members and depressions being at substantially the remotest region of the saddle respective to the fitting handle surface in the direction in which the handle extends from the shaft.

2,640,141

APPARATUS FOR DIELECTRIC HEATING

Milton P. Vore, Catonsville, and Robert E. Kirby, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 12, 1948, Serial No. 54,032
17 Claims. (Cl. 219—47)



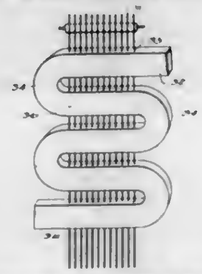
8. A dielectric-heating electrode comprising a plurality of layers of spaced parallel metallic strips, the strips of each layer having faces adapted to bound an electric field and lying substantially in a plane, the strips of a first layer crossing the strips of a second layer, and clamping pivot means at the crossing points of said strips, said strips being electrically interconnected.

2,640,142

MICROWAVE HEATING

Theodore P. Kinn, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 4, 1946, Serial No. 701,308
4 Claims. (Cl. 219—47)



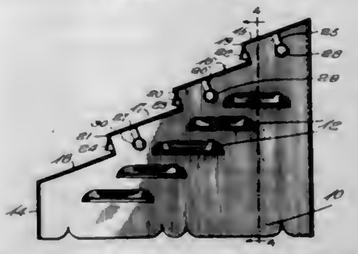
1. A high-frequency heating apparatus comprising a micro-wave conductor comprising a single metallic envelope comprising a return-bent wave guide having a plurality of sections extending in the same general direction between bends, each section having a pair of opposite sides, each of which is provided with a plurality of longitudinally spaced holes, and means for passing material through said sections in a plurality of paths each of which includes a hole in each of said opposite sides of a plurality of said sections, so that the material passes successively through said sections.

2,640,143

ILLUMINATED AWNING

Grover C. Malone, East Point, Ga.

Application April 4, 1949, Serial No. 85,443
1 Claim. (Cl. 240—2)



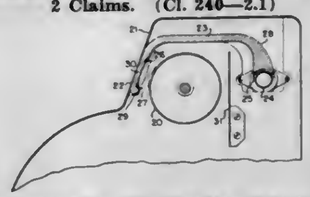
A device of the character described comprising a metallic awning having a sloping roof provided with stepped portions, a front wall and side walls, said stepped portions each having a forwardly sloping top and a downwardly and rearwardly extending section, louvers formed in the downwardly and rearwardly extending sections, louvers formed in the side walls and horizontally extending electric lamps mounted within the awning adjacent the louvers in said downwardly and rearwardly extending sections, each of said lamps being in a plane slightly above the plane of the lower edges of its associated louvers.

2,640,144

INDICATOR ILLUMINATING DEVICE

Sidney Levy, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application February 1, 1950, Serial No. 141,717
2 Claims. (Cl. 240—2.1)



1. A device for illuminating data-indicating devices situated in a cabinet behind a viewing aperture, including, in combination, a transparent unitary light guide made of material which internally reflects light and having a light collecting surface and a sheet portion extending between the indicating devices and the viewing aperture, said sheet portion having a light directing and emitting edge above the aperture and a light directing and emitting edge below the aperture, each emitting edge directing light toward the indicator, and the intermediate portion of the sheet between said emitting edges being transparent and serving as a closure and as a window whereby an observer may view the indicating devices and a light source positioned adjacent the light collecting surface of the light guide so light is radiated thereinto.

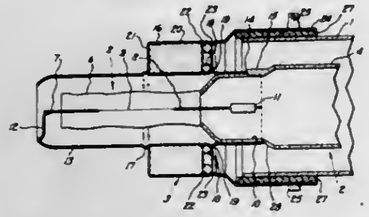
and within which the lamp envelope is arranged, section corresponding longitudinally spaced

2,640,145

JACKETED AND DOUBLE ENDED LAMP UNIT

Ernest C. Martt, Chagrin Falls, Ohio, assignor to General Electric Company, a corporation of New York

Application September 28, 1951, Serial No. 248,711
2 Claims. (Cl. 240—11.4)



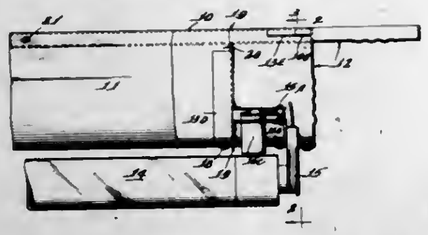
1. A lamp unit comprising in combination a double-ended tubular electric discharge lamp having stems protruding from the ends of its envelope, a light transmitting tubular jacket around said lamp, and bases at the ends of said unit holding said lamp and said jacket in predetermined spaced relation, each of said bases comprising a stiff metal protective sleeve around the end portion of the lamp envelope and extending around and beyond the protruding stem thereon, each of said sleeves having an external roll flange in its wall between its ends, an annular inelastic insulator fitting around said sleeve, a split snap metal ring forcing said insulator tightly against said flange, said ring being held against said insulator by radially spaced protuberances on said sleeve, and a metal skirt tightly secured to the peripheral portion of said insulator and clamped around the end portion of said jacket whereby said unit is capable of accurate mounting by said sleeves in equipment designed therefor and said stems are protected by said sleeves.

2,640,146

LIGHTING FIXTURE FOR ELONGATED TUBULAR LAMPS

Gean Smith, Chicago, Ill., assignor to L. J. Segil Company, Chicago, Ill., a corporation of Illinois

Application June 17, 1947, Serial No. 755,151
10 Claims. (Cl. 240—51.11)



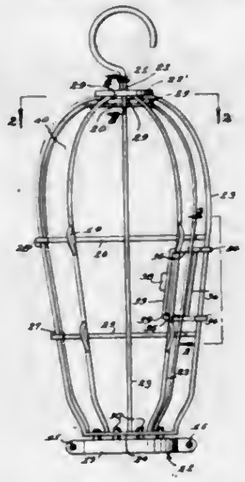
1. A lighting fixture comprising a base, a concavo-convex reflector on said base and forming a cavity therewith, and a socket mount including an arcuate band mounted on said base with an arcuate edge confronting an arcuate edge at an axial end of the reflector so as to be in curvilinear flush-surface alignment with said reflector, socket means on said band, said band removable from said base and dimensioned to fit into said cavity, electrical apparatus housed within said cavity and connected by flexible conductor means to said socket means and of extended length to permit free movement of said bands whereby said band and socket means thereon may be mounted and demounted at will and stowed in said cavity, said band having an edge offset to provide a seating ledge on which said reflector fits with the outer surfaces of both the reflector and band flush as aforesaid.

2,640,147

HINGED LIGHT BULB PROTECTOR

Charles L. Suchan, Fremont, Nebr.

Application June 30, 1950, Serial No. 171,387
2 Claims. (Cl. 240—102)



1. A lamp guard comprising a first concave cage segment including a wire member extending transversely about and secured to said segment intermediate the ends thereof, a second concave cage segment arranged in face to face abutting relation with respect to said first cage segment and including a wire member extending transversely about and secured to said segment intermediate the ends thereof, said wire members being transversely aligned and connected together at the ends adjacent to one of the side edges of each cage segment for pivotal movement of said cage segments into and out of face to face abutting relation, a collar encircling one of the corresponding ends of each of said first and second cage segments and fixedly secured to said first cage segment, a resilient detent projecting longitudinally from the portion of said collar contiguous to said one end of said second cage segment and engageable with said one end of said second cage segment when the latter is in its abutting relation with respect to said first cage segment, and interengaging means on the other side edges of said first and second cage segments for holding said segments in face to face abutting relation.

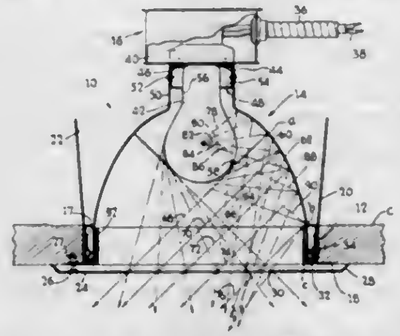
2,640,148

REFLECTOR FOR CONTROLLING AT A PREDETERMINED ANGLE DIRECT AND INDIRECT RAYS FROM A LIGHT SOURCE

Stanley McCandless, Hamden, Conn., assignor to Century Lighting, Inc., New York, N. Y., a corporation of New York

Application March 12, 1949, Serial No. 81,161
4 Claims. (Cl. 240—103)

1. An electric lighting fixture comprising a socket for holding a lamp having a diffuse envelope symmetrical about a single axis, and a specular reflector symmetrical about a single axis and within which the lamp envelope is arranged to be disposed, said reflector having its axis of symmetry coincident with the axis of symmetry of the lamp envelope, said reflector being so shaped and located with respect to said lamp envelope that all light rays emanating tangential to said envelope within approximately a predetermined angle of cut off and incident upon the reflector will be reflected at substantially the cut off angle, the shape of said reflector in a plane including the axis of symmetry of the reflector being that of a smooth curve tangent to small contiguous straight lines of progressively varying angularity from which light rays issuing tangential to said lamp envelope within approxi-



mately the cut off angle are reflected substantially parallel to said angle, the shape of said reflector in said plane including a portion on each side of the axis of symmetry of the reflector, each said portion having an upper boundary in a line which is tangent to the lamp envelope at a point on the envelope located on the same side of the axis of symmetry of the lamp envelope as said portion, said tangent line extending upwardly from the lamp envelope to the upper boundary of said portion, the small straight line at the upper boundary of each portion being disposed perpendicular to the tangent line extending upwardly from the lamp envelope to said upper boundary.

2,640,149

VEHICLE LIGHT CONTROLLING LENS PANEL

Albert L. Arenberg, Highland Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois

Application June 9, 1948, Serial No. 31,991
2 Claims. (Cl. 240—106)



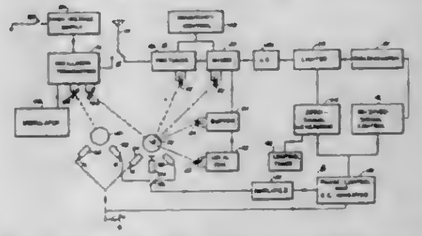
1. In a light control fixture, a light transmissive panel of a dished cross sectional outline adapted to be mounted on one side of a light source with opposed wall portions thereof in enclosing relation to the light source, said panel being provided with a substantially flat lens-bearing section extending between said wall portions which is made up of a multiplicity of parallel, longitudinally arranged and transversely extending transparent lens elements of small width compared to their transversely extending length, said lens elements each including a continuous, substantially flat upper surface exposed to said source and disposed at a substantially acute angle to the plane of said lens-bearing section, corresponding longitudinally spaced margins of said surfaces being defined by laterally indented lens surfaces facing in a common direction toward said light source, said indented surfaces extending substantially normal to the plane of said section and at an acute angle to the upper surface of said respective lens elements, said indented surfaces being constituted in part by surface elements in non-parallel relation to the length of said lens element, said lens bearing section being smooth on the side thereof opposite said lens elements.

2,640,150

TUNER

William Ieu-Liang Wu, Shanghai, China, assignor to the United States of America as represented by the Secretary of the Navy

Application January 24, 1949, Serial No. 72,302
3 Claims. (Cl. 250—15)



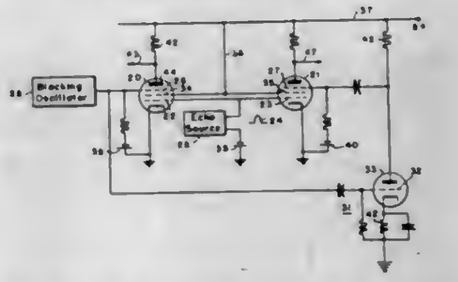
1. In a system for automatically tuning a transmitter to the center-frequency of a received signal within an allocated frequency band, the combination of a receiver including a driven tuning device adapted to sweep said band, means controlled by said receiver to adjust and then interrupt operation of its tuning device when tuned accurately to said center-frequency, a transmitter including a second driven tuning device, means to cause transmitter operation when operation of said receiver tuner is interrupted and simultaneously to decrease the sensitivity of said receiver, the receiver under condition of reduced sensitivity, being operable to provide a signal defining a reference frequency against which the transmitter is tuned, and means to adjust said second tuning device to said reference frequency.

2,640,151

BLOCKING OSCILLATOR SYSTEM

Everett C. Dill, Arlington, S. Dak., and Lyttleton W. Ballard, Ilchester, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

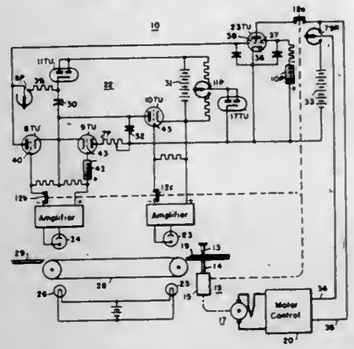
Application July 14, 1949, Serial No. 104,706
1 Claim. (Cl. 250—27)



A gate generating system, comprising, a source of signal pulses having positive and negative

waves in time succession, said pulses joined by wave portions of relatively slowly varying slope, means for reversing the polarity of one of said waves, a first electron discharge tube, a second electron discharge tube, means responsive to a portion only of one of said waves for controlling bias of said first tube, and means responsive to a portion only of waves provided by said means for reversing polarity for controlling bias of said second tube, a source of echo pulses, and means for applying said echo pulses to said tubes simultaneously.

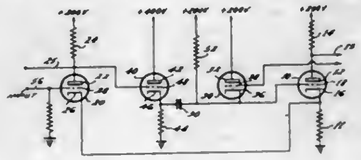
2,640,152
CONTROL SYSTEM FOR CUTTING APPARATUS
Edward C. Hartwig, Lancaster, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1950, Serial No. 165,270
5 Claims. (Cl. 250—27)



1. In a control system, a first timing circuit including a capacitor, a resistor and discharge means therefor, a second timing circuit including a capacitor, a resistor and discharge means therefor, valve means normally disposed to provide charging circuits for the capacitors, impulse means operable to render said valve means non-conductive, additional impulse means operable to render the discharge means of the first timing circuit non-conductive and the discharge means of the second timing circuit conductive, valve means having a control electrode, and circuit means connecting the timing circuits to the control electrode to provide a blocking bias to render said valve means non-conductive until the voltages of the capacitors in the timing circuits reach a predetermined relation.

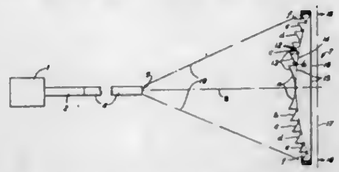
2,640,153
TRIGGER CIRCUIT
Robert J. McCurdy, Bridgeboro, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1951, Serial No. 264,091
5 Claims. (Cl. 250—27)

1. A slide-back trigger circuit comprising first and second electron discharge tubes each having at least a cathode, an anode, and a control grid, a cathode bias resistor to which the cathodes of said first and second tubes are connected, means coupling the anode of said second electron discharge tube to the grid of said first tube, said means including a capacitor connected to the grid of said second electron discharge tube, a third electron discharge tube having a cathode, an anode and a control grid, said third tube having its cathode connected to the grid of said first tube, separate plate-load resistors coupled to the anodes of said first and second tubes, a bias resistor connected to the cathode of said third



tube, means to apply trigger pulses to the grid of said second tube, means to derive an output from the anodes of said first and second tubes, and means to apply a variable direct-current input to the grid of said third tube, whereby the time of duration of the slide-back trigger output pulse may be varied.

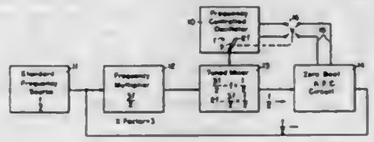
2,640,154
ACHROMATIC LENS ANTENNA
Winston E. Kock, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 23, 1949, Serial No. 134,788
2 Claims. (Cl. 250—33.63)



1. A compound electromagnetic wave, phase advance, metallic lens for focusing waves included in a wide band of wavelengths and having a given electric polarization, said lens comprising a plurality of metallic members extending parallel to said polarization and spaced apart a distance greater than one-half the longest wavelength in said band, said lens having a stepped concave face and a plane face, said concave and said plane sides being the surfaces which include and are defined by the stepped edges and the linear edges respectively of said plurality of metallic members, the contour line comprising the base line of the steps of said concave edge of each metallic member being a smooth curve of which the linear edge of said member is a chord, whereby said compound lens comprises, in effect, a positive or converging multiple zone stepped electromagnetic wave, phase advance, metallic lens section and a negative or diverging multiple zone unstepped electromagnetic wave, phase advance, metallic lens section.

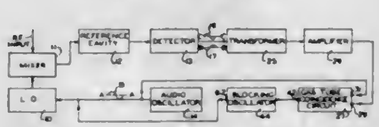
2,640,155
FREQUENCY CONTROL SYSTEM
Sheldon I. Rambo, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 17, 1948, Serial No. 65,959
10 Claims. (Cl. 250—36)

1. A high frequency generator comprising, means subject to frequency deviation for generating oscillations having nominally either of a pair of predetermined frequencies, means for producing further oscillations of accurately determined frequency combinable with either of said predetermined frequencies to produce oscillations nominally of a single third frequency, a mixer circuit for combining said further oscillations with a selected one of said oscillations of pre-



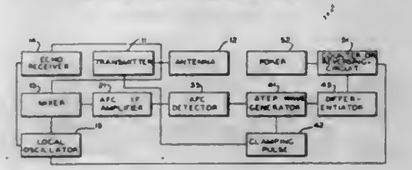
determined frequencies to produce said oscillations nominally of said single third frequency, frequency stabilized means for generating further signals of said third frequency, and means responsive to deviations of the frequency of said oscillations of said single third frequency from the frequency of said further signals for reducing said deviation by controlling the frequency of said controlled oscillator.

2,640,156
AUTOMATIC FREQUENCY CONTROL APPARATUS
Howard E. Schultz, Wellesley, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application October 31, 1945, Serial No. 625,883
5 Claims. (Cl. 250—36)



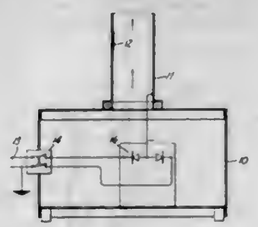
1. Automatic frequency control apparatus comprising, an oscillator circuit of the type whose frequency is dependent upon the electric potential applied to an electrode thereof adapted to oscillate substantially at a desired frequency, means for modulating the output of said circuit with a first oscillatory signal, a resonant cavity tuned to said desired frequency having as its input the output of said circuit, a detector having as its input the output of said cavity and as an output an oscillatory reference signal of like frequency to said first oscillatory signal, said reference signal having a first phase similar to that of said first oscillatory signal when the frequency of said oscillator is below the resonance frequency of said cavity and a second opposite phase when said oscillator frequency is above said resonance frequency, means for periodically varying the value of said electric potential between relatively broadly spaced limits including the value required to provide said desired frequency, and a coincidence circuit responsive to phase coincidence between said first and reference oscillatory signals for interrupting the action of said last mentioned means at a time when said electric potential is substantially at said desired frequency value and thereafter maintaining said potential substantially at said desired frequency value.

2,640,157
RAPID SEARCHING THERMAL AUTOMATIC FREQUENCY CONTROL
Henry Wallman, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 29, 1945, Serial No. 631,738
12 Claims. (Cl. 250—36)



1. In an automatic frequency control system apparatus for stabilizing the frequency of an oscillator at a predetermined frequency deviation from a pulsed reference signal, comprising a mixing circuit energized by said oscillator and said reference signals, a detector energized by said mixer circuit output signal providing pulses varying in amplitude in accordance with the frequency deviation of said oscillator signal from said reference signal, a step wave circuit energized by said last mentioned pulses providing an output instantaneously proportional to the amplitude of the preceding applied pulse, means for differentiating said step wave output signal to provide pulses of variable polarity, and means operative upon differentiator output pulses of a predetermined polarity to adjust the frequency of said oscillator.

2,640,158
ION CONTROLLER
William Wesley Hicks, San Francisco, Calif., assignor to Ionics, Inc., San Francisco, Calif., a corporation of California
Application January 30, 1952, Srial No. 269,065
4 Claims. (Cl. 250—44)



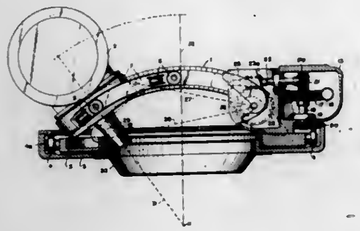
1. In an ion controller, a radioactive source of alpha particles, an electrode having a generally cylindrical surface terminating in an open end, means mounting said radioactive source in fixed relation to said electrode and in such position that the axial distance from said source to the said open end is substantially equal to one-half the maximum range of alpha particles in air and so that the distance from said source to said surface, measured along the path of alpha particles emanating from said source, is substantially equal to the maximum range of alpha particles in air, and means for applying a charge of one polarity to said electrode.

2,640,159

MACHINE FOR CONVERGENT IRRADIATION

Josef Gerneth, Erlangen, Germany, assignor to Siemens-Reiniger-Werke, Erlangen, Germany

Application September 30, 1949, Serial No. 116,849
In Germany November 26, 1948
14 Claims. (Cl. 250—61.5)



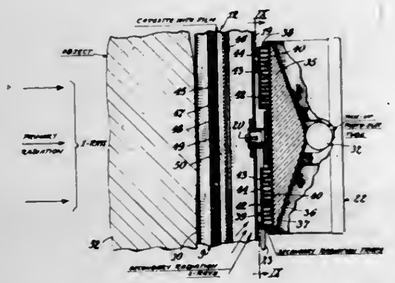
1. A therapeutic machine for convergent irradiation, comprising in combination with a source of irradiation, two U-shaped circularly curved guides extending parallel to each other and with their legs directed toward each other, means moving said source upon said guides, means rotating said guides, a casing enclosing said guides, rollers carried by said source, said casing having a guide formed upon inner surfaces thereof and engaged by said rollers during one half of a winding of the spiral path of said source in relation to said casing, to cause a rotation of said source to an angle of 180° about an axis coinciding with the central ray of the radiation of said source, said rollers being devoid of contact with the last-mentioned guide during the other half of said winding.

2,640,160

EXPOSURE MONITOR FOR HORIZONTAL CASSETTE CHANGER

Zane L. Collins, Linthicum Heights, and Frederick J. Euler, Jr., Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 21, 1950, Serial No. 196,756
5 Claims. (Cl. 250—66)



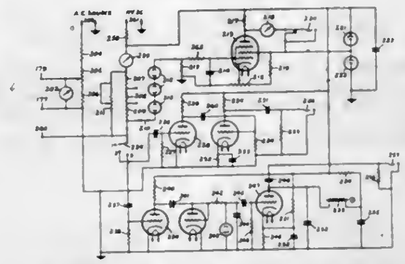
1. An X-ray apparatus for the making of radiographic exposures comprising a casing provided with sections pervious and impervious to X-rays, a film-holding cassette movable longitudinally of said casing to position an exposed film back of an X-ray impervious section and an unexposed film in back of the X-ray pervious section of said casing, a housing positioned rearwardly of said casing in radial alignment with the pervious section thereof, a photosensitive pick-up tube carried by said housing, a light collector in said housing including a fluorescent screen on which a visible image is cast upon impingement of said screen by X-rays passing through an object and the X-ray pervious section of said casing and an optical arrangement for concentrating the visible light from said fluorescent screen on to the photosensitive pick-up tube; and an X-ray impervious cover for said housing adjacent the rear surface of said casing including a scatter-trap pervious to only primary radiations from said X-ray tube and for preventing secondary radiations from impinging upon said fluorescent screen.

2,640,161

ENERGIZING SYSTEM FOR BOREHOLE RADIOACTIVITY APPARATUS

Shelley Krasnow, Fairfax County, Va., and Meyer Joseph Test, Kansas City, Mo., assignors to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Original application October 1, 1941, Serial No. 413,240. Divided and this application May 19, 1948, Serial No. 27,857
12 Claims. (Cl. 250—83.6)



1. An apparatus for the measurement of radioactivity in a deep narrow borehole, comprising a unitary assemblage adapted to be lowered within the borehole to detect the presence of radioactivity therein a plurality of leads connected to said assemblage and serving to make electrical connection thereto, means at the surface of the earth to supply alternating current and direct current both at relatively constant voltages to said leads, said assemblage including transformer means to receive alternating current at relatively low voltage transmitted from the surface of the earth, said transformer means being adapted to produce voltage for vacuum tube elements within the said system, a section of said transformer being adapted to provide an increased high alternating current voltage, a vacuum tube rectifier to rectify the said increased voltage and a filter to filter the rectified high voltage produced, a Geiger-Müller counter tube actuated by the said high voltage and adapted to produce electrical pulses as a function of radioactivity in the vicinity thereof, and a multistage vacuum tube amplifier to amplify the said pulses and to apply them to leads proceeding to the surface of the earth, the output stage having a direct current plate voltage therefor supplied thereto by one of said leads, said one lead serving a dual purpose of conducting direct-current energy from the surface of the earth to the said output stage and of transmitting the signal from the said assemblage to the surface of the earth.

2,640,162

ELECTRONIC TRANSMISSION SYSTEM

Lloyd Espenschied, Kew Gardens, and Albert M. Skellett, Madison, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 16, 1947, Serial No. 748,422
19 Claims. (Cl. 250—207)



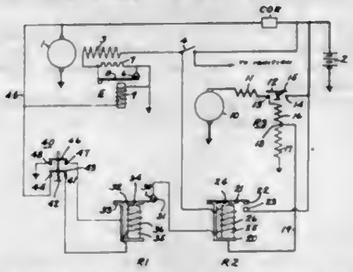
1. In a system for the communication of intelligence, an evacuated, hollow pipe in the form of a long transmission line sectionalized by a plurality of gas-tight windows such that successive sections of pipe are joined together without loss of vacuum into a composite integral continuous line extending from a first point to a remotely located second point, means at said first point for forming and launching within said pipe a group of modulated electron beams moving in parallel courses in the direction of said second point, successive means located in said pipe between said first and said second point adapted to receive a group of electron beams traveling in the direction of said second point and in response to said received group of beams to produce a subsequent group of beams traveling towards said second point, means for maintaining all of said beams in courses generally parallel to the axis of the pipe during the passage of electrons therein down said pipe, and means at said second point for utilizing beams arriving at that point through said pipe.

2,640,163

ENGINE STARTING APPARATUS WITH GENERATOR SEPARATELY EXCITED DURING STARTING

Brooks H. Short, Anderson, and John W. Dyer, Pendleton, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 30, 1950, Serial No. 193,011
2 Claims. (Cl. 290—37)



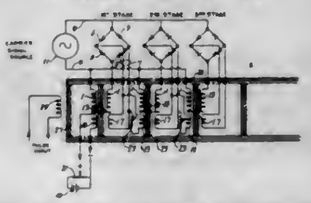
1. An electrical system for automotive vehicles comprising an engine driven generator; a storage battery; a cut-out relay for connecting the generator with the battery when the generator attains a voltage sufficient for battery charging, said generator having a shunt field winding; an electric motor for cranking the engine; a plurality of manually operated switches for controlling operation of the motor; a circuit including one of the switches for connecting the field winding directly with the battery whereby the generator is separately excited until the generator voltage exceeds battery voltage; and means for preventing operation of the starting motor while the engine is self operative when all of the switches are closed, said means including all of the switches and normally closed contacts of a relay, said relay having a coil; and a circuit established by closure of all of the switches for connecting the relay magnet coil with the generator, said relay being responsive to separate its contacts when the generator voltages attain a certain value.

2,640,164

MAGNETIC RING COUNTER

George J. Giel, Jr., and Meryl C. Burns, Richmond, Calif., assignors to Berkeley Scientific Corporation, Richmond, Calif., a corporation of California

Application November 14, 1950, Serial No. 195,636
13 Claims. (Cl. 307—88)



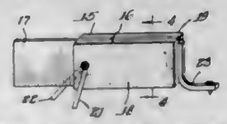
1. A magnetic ring counter comprising a succession of reactive windings, rectifying means having an input circuit connected in series with each of said windings and circuit connections for supplying all of said windings and rectifying means from a source of alternating current; a saturable magnetic core within each of said windings, a pair of biasing windings magnetically coupled to each of said reactive windings by said core, an output circuit from said rectifying means connected to supply one of the biasing windings on the corresponding core and one on the core of a succeeding winding of the succession up to the last, and a triggering circuit including means for establishing flux pulses in all of said cores simultaneously.

2,640,165

CERAMIC TRANSDUCER ELEMENT

Glenn N. Howatt, Metuchen, N. J., assignor to Gulton Manufacturing Corporation, Metuchen, N. J., a corporation of New Jersey

Application May 29, 1948, Serial No. 30,101
11 Claims. (Cl. 310—8.1)



1. A piezoelectric element comprising a permanently charged titanate ceramic having electrodes on opposite faces thereof.

2,640,166

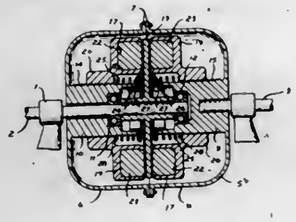
DRIVE COUPLING OF THE PERMANENT MAGNET TYPE

Igor V. Zozulin, George J. Okulitch, George M. Volkoff, Vladimir J. Okulitch, and Alec S. J. Eliett, Vancouver, British Columbia, Canada

Application April 12, 1952, Serial No. 282,072
4 Claims. (Cl. 310—94)

1. A permanent magnetic coupling adapted to be fitted to aligned input and output shafts com-

prising a disk rotor secured upon one shaft, a core secured upon the other shaft, a second rotor rockingly mounted upon the core and in face to face proximity to the disk rotor, one of said rotors being fitted with magnets to provide a rotational tractive force to the other and a flexible



torsional member connecting at one end to the second rotor and at its opposite end to the core to permit a limited rotational movement relative to each other and subsequently restore the second rotor and the core to their normal positions of angularity.

2,640,167

ENVELOPE FOR ELECTRON FLOW DEVICE AND GLASS-METAL SEAL EMBODIED THEREIN

Zed J. Atlee, Elmhurst, and Joseph B. Gosling, Chicago, Ill., assignors to General Electric Company, a corporation of New York

Application May 29, 1947, Serial No. 751,234
24 Claims. (Cl. 313—58)



1. A puncture resistant electron flow device comprising an anode and a cooperating cathode electrode, and an envelope of glass enclosing and supporting said electrodes thereon at spaced mounting stations, said glass having electrical resistivity of the order of $10^{(6+0.5)}$ ohms/cm.^{3}, at 350° C., such resistivity being low enough to provide for drainage, at a predetermined rate, of such electrostatic charges as may accumulate on the envelope through electron impact thereon during the operation of the device, and high enough to prevent significant flow of electricity in the envelope between said anode and cathode mounting stations.

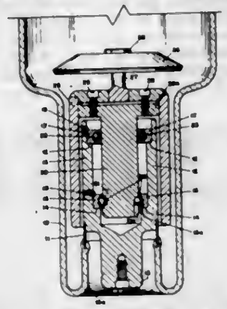
2,640,168

ELECTRON TUBE

George J. Agule, Stamford, Conn., assignor to Machlett Laboratories, Incorporated, Springdale, Conn., a corporation of Connecticut

Application November 9, 1950, Serial No. 194,841
4 Claims. (Cl. 313—60)

1. An electron tube having an evacuated envelope and a rotatable electrode therein, the mounting for the rotatable electrode including a shaft of bearing metal having an inner ball race thereon, independent outer races of bearing metal supported in coaxial relation with the shaft, by a set of balls between one of the outer races and the race formed in the shaft, and a second set of balls between the other outer race and a cylindrical surface on the shaft whereby the sec-



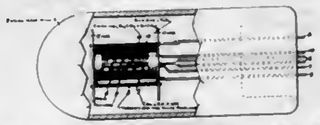
ond set of balls can move relatively to the shaft in the direction of the axis of the shaft.

2,640,169

HEATED CATHODE ELECTRON MULTIPLIER

Scott Nevin, Fort Wayne, Ind., assignor to Farnsworth Research Corporation, Fort Wayne, Ind., a corporation of Indiana

Application June 19, 1950, Serial No. 169,033
6 Claims. (Cl. 313—103)



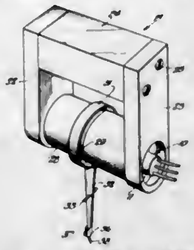
1. An electron tube comprising, an electron tube envelope, a secondary electron emissive target electrode, a heated type primary electron emissive cathode electrode, and a collector electrode positioned within said envelope, said cathode electrode comprising a tantalum base coated with an emissive oxide.

2,640,170

DEVICE FOR CONVERTING MOTION INTO ELECTRICAL ENERGY

Albert E. Shaw and Robert J. Moon, Chicago, Ill., assignors, by mesne assignments, to Louis Bernat, doing business as Physics Research Associates

Application August 16, 1946, Serial No. 690,992
14 Claims. (Cl. 313—157)



1. A device for converting mechanical motion into electrical energy comprising an evacuated vessel enclosing an electron-emitting cathodic electrode, an anodic electrode positioned within said vessel and adjacent said cathodic electrode, magnetic means for providing a magnetic field

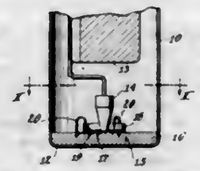
extending into the space between said electrodes, a magnetically permeable member supported for movement and positioned within said magnetic field, and mechanically actuated means connected to said member whereby actuation of said means is effective to move said member to vary the pattern of the field in the interelectrode space between said cathodic electrode and said anodic electrode.

2,640,171

VAPOR ELECTRIC DEVICE CATHODE

Gerhard Lewin, Maplewood, and Ernest A. Goldman, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 25, 1951, Serial No. 253,122
7 Claims. (Cl. 313—178)



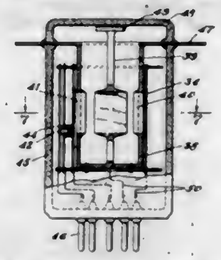
1. A sponge cathode comprising a body portion of porous material, and an arc-striking portion of a different porous material, said arc-striking portion being paper-thin and integral with and at the surface of said body portion.

2,640,172

HYPERFREQUENCY VACUUM TUBE

Emile Touraton, Paris, and Claude Dumousseau, Pierrefitte, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application November 9, 1948, Serial No. 59,153
In France November 15, 1947
4 Claims. (Cl. 315—5)



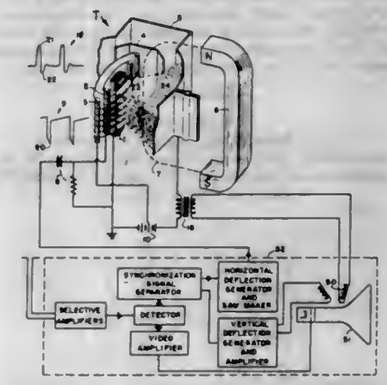
1. A velocity modulation tube comprising a conductive housing defining a cavity resonator, said housing having aligned apertures in opposite walls thereof, means including an electron gun mounted outside said cavity resonator at an angle to the alignment axis of the apertures, for projecting a beam through said apertures, the beam being angularly disposed with respect to their alignment axis, and means for reflecting the beam back and forth through said cavity including a pair of reflector electrodes mounted outside said housing and respectively overlying said apertures, whereby the beam after projection through said apertures is reflected by and between said reflector electrodes to flow back and forth through said cavity in displaced paths.

2,640,173

SUPPRESSION OF SPURIOUS OSCILLATIONS

Robert T. Cavanagh, Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware

Continuation of application Serial No. 9,975, February 21, 1948. This application February 8, 1949, Serial No. 75,148
11 Claims. (Cl. 315—27)



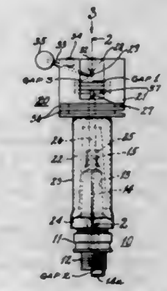
6. An electron deflection device comprising an electron tube having a cathode, a control grid, an anode, and a screen grid between said cathode and said anode, a source of periodic signals connected between said cathode and said control grid and polarized to cut off momentarily the electron flow in said tube, a deflection yoke connected in circuit between said anode and said cathode, said yoke generating periodic momentarily negative voltages on said anode in response to said periodic signals, a source of positive voltage connected between said screen grid and said cathode, and a magnet positioned to provide a magnetic field in the vicinity of said screen grid.

2,640,174

INTENSIFIER

Brooks H. Short and Argyle G. Lautzenhiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 30, 1950, Serial No. 193,012
10 Claims. (Cl. 315—60)



1. An intensifier adapted for use with a spark plug comprising conductors providing, in series with the spark plug gap, a gap of a length greater

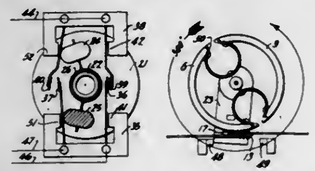
than the spark plug gap; a non-conducting body supporting the conductors; means attached to the body for raising the capacity of the spark plug gap to a value of a plurality of times greater than the capacity of the intensifier gap whereby the plug-firing voltage required for the gap combination is substantially less than otherwise; a teaser gap provided by an additional conductor supported by said body and having one end spaced from one of the conductors at the intensifier gap; and a metal body attached to the other end of the additional conductor and having dimensions such that its capacity with respect to ground is greater than the capacity of the teaser gap.

2,640,175

TIME KEEPING DEVICE MOTOR

Montford Morrison, Upper Montclair, N. J.

Application August 5, 1949, Serial No. 108,679
8 Claims. (Cl. 318—131)



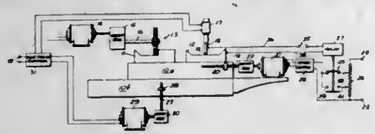
1. In a time-keeping mechanism, a journaled balance-wheel and cooperating hair-spring providing timing for said mechanism, a source of driving impulses for said balance-wheel subject to variation, and a mechanical impulse stabilizer including a balance wheel operated impulse release mechanism having a power demand on the balance-wheel-system which is substantially free of mechanical shock, said stabilizer being interposed between said source and said balance-wheel causing stabilization of the impulses transmitted to said balance-wheel.

2,640,176

DUPLICATOR SPEED CONTROL

Carlo L. Calosi, Cambridge, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application March 14, 1951, Serial No. 215,478
6 Claims. (Cl. 318—162)



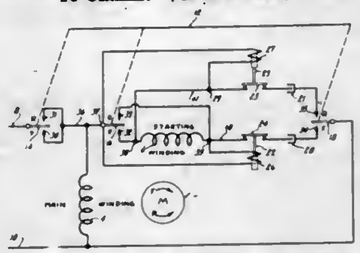
1. In a duplicator system, a model having a conductive surface to be duplicated, a stylus, means to cause relative motion of the model and the stylus at a predetermined speed while keeping the stylus in contact with the surface of the model, a control circuit comprising a source of potential, the stylus, the surface of the model and a control device connected in series, said circuit being adapted to be completed when the gradient of the contour of the model makes a substantial angle to the path of relative motion of the stylus and the model, and means under control of said control device to slow the relative motion of the stylus and the model.

2,640,177

STARTING CIRCUIT FOR ELECTRIC MOTORS

Theodore R. Wieseman, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a corporation of Wisconsin

Application January 18, 1951, Serial No. 206,537
10 Claims. (Cl. 318—207)



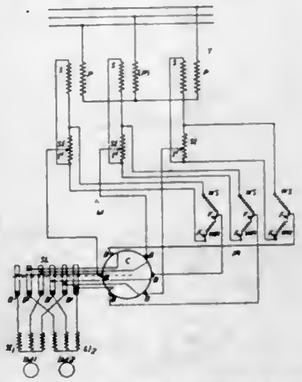
1. In a control for a reversible, single phase, capacitor motor having a stator provided with starting and main windings; a first phase-shifting circuit extending through the starting winding from one end thereof and including a capacitor connected in series with the other end of the starting winding; a second phase-shifting circuit extending through the starting winding from said other end thereof and including another capacitor connected in series with the first designated end of the starting winding; and switch means for selectively connecting said phase-shifting circuits in parallel with the main winding, whereby selectively to connect one end or the other of the starting winding to one of the ends of the main winding.

2,640,178

SPEED AND VOLTAGE CONTROL OF STATOR FED ALTERNATING CURRENT COMMUTATOR MOTORS AND FREQUENCY CONVERTERS

Benno Schwarz, Norwich, England

Application January 31, 1951, Serial No. 208,767
In Great Britain February 7, 1950
7 Claims. (Cl. 318—244)



1. A multi-phase electrical system for the speed and voltage control of stator fed shunt A. C. commutator machines including frequency converters having a stator winding, a rotor winding, a commutator to which the rotor winding is connected and brushes for feeding the commutator,

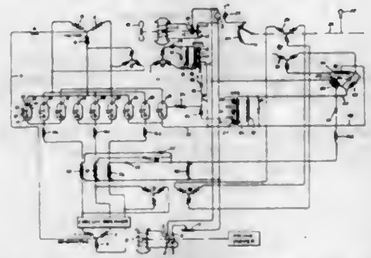
said system comprising a transformer having a primary winding fed from an A. C. supply and a secondary winding feeding the stator winding of the commutator machine, voltage regulating means having a winding system also fed from the transformer secondary winding for producing variable and adjustable voltages for the speed and voltage control of said commutator machine, and an electrical connection between one commutator brush of each phase of said commutator machine and an electrically-central internal connecting point in the corresponding phase of the stator winding to supply to the rotor of said commutator machine an adjustable voltage which is vectorially at right-angles to the resulting voltage of said stator winding and to obtain effective auto-transformer connections between the stator winding and the rotor winding of the commutator machine.

2,640,179

ELECTRIC MOTOR AND STABILIZING MEANS THEREFOR

Ernst F. W. Alexanderson and Samuel P. Nixdorff, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application February 6, 1951, Serial No. 209,647
11 Claims. (Cl. 318—434)



1. In combination, an electric motor having an armature winding and a field winding of the separately excited type, electronic translating apparatus comprising a plurality of tubes for energizing the armature circuit of said motor, each of said tubes having a control electrode, phase controlling means for energizing said control electrodes so as to supply current to said armature, control means for deriving an electrical quantity dependent upon the motor armature current, a control circuit connected so that the energization thereof varies with variations in the excitation of said motor field and in the magnitude of the quantity derived from the motor armature current for controlling said phase controlling means, thereby to control the magnitude of current to said armature.

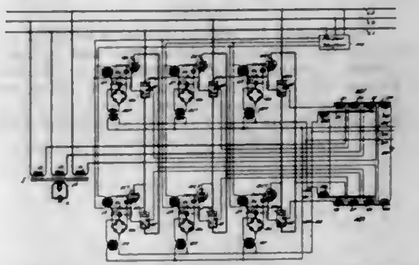
2,640,180

WELDING APPARATUS

John R. Parsons, Kenmore, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 2, 1948, Serial No. 18,699
9 Claims. (Cl. 321—7)

9. In a timing system for timing transfer of current from a three phase source to a single phase load, a first group of arc discharge devices each connected in current controlling relation between one phase of said three phase source and said single phase load, a further group of arc discharge devices each connected in current controlling relation between one phase of said three phase source and said load, each of said first group of arc discharge devices being connected in inverse parallel relation with an arc discharge device of said further group of arc discharge devices, arc discharge devices of one of said groups being all arranged to transfer identically directed current in said load, a first group of firing valves for said first group of arc discharge devices, a second group of firing valves for said second group of arc discharge devices, first means for developing hold-off bias for said first group of firing valves for preventing firing operation of all the arc discharge devices of said first group of arc discharge devices when said



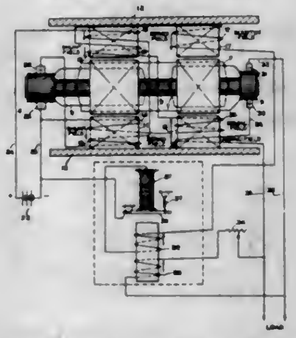
second group of discharge devices are conductive, second means for developing hold-off bias for said second group of firing valves for preventing firing operation of all the arc discharge devices of said second group of arc discharge devices when said first group of discharge devices are conductive, means for periodically actuating said first and second means in alternation for a predetermined number of alternations, means thereafter operative for actuating said first and second means simultaneously and means responsive to firing condition of an arc discharge device of one of said groups of arc discharge devices for actuating that one of said first and second means which prevents firing of the remaining group of arc discharge devices.

2,640,181

DYNAMOELECTRIC MACHINE

John J. Korzdorfer, Rumson, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 25, 1949, Serial No. 129,404
6 Claims. (Cl. 322—25)



1. A dynamoelectric machine of the type having a motor portion and a generator portion, said

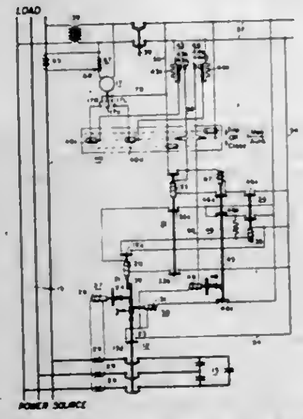
generator portion including a booster winding, input and output circuits; the improvement comprising means including a winding in series with said output circuit to oppose the magnetic flux of said booster winding upon an increase in current in said output circuit, means for regulating said booster winding, said means including a first control winding responsive to the voltage of said output circuit, a second control winding responsive to current flow in said booster winding, said windings coacting to provide a cumulative control to effect said booster winding to maintain a predetermined output voltage under pulsing load conditions.

2,640,182

AUTOMATIC SWITCHING SYSTEM

William H. Cuttino, Wilkinsburg, and Lester G. Tubbs, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 29, 1949, Serial No. 118,686
5 Claims. (Cl. 323—106)



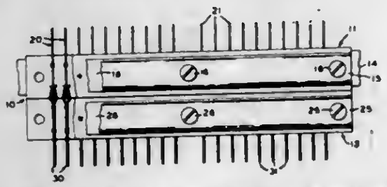
1. In combination with switch means operable to effect connection of capacitor means to an electric circuit, a voltage relay having an operating winding connected to be energized in accordance with a voltage from the electric circuit, and circuit means connected to introduce in circuit relation with said operating winding a voltage directly proportional to a load on said electric circuit and opposing the voltage of the circuit.

2,640,183

MULTIPOINT PLUG AND JACK

Richard P. Arthur, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware

Application March 24, 1950, Serial No. 151,778
2 Claims. (Cl. 339—192)



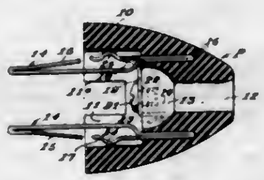
1. In a multiwire connecting apparatus, two edgewise-registering assemblies each having a terminal edge and a contact-making edge and including a row of elongated blade-like contact makers each disposed on edge and extending across the row, each assembly further including two parallel, mutually overlapping support strips disposed respectively above and below the row and engaging opposite edge portions of the contact makers thereof to hold them firmly in place while leaving the interstrip space unobstructed between adjacent contact makers, the contact makers of each assembly extending freely beyond one edge of the support strips to facilitate the attachment of respective conductors thereto along the terminal edge of the assembly, the contact makers comprising a group of first contact makers and a group of respectively corresponding second contact makers, each first contact maker extending freely beyond its support strips at the contact-making edge of its assembly to provide a flexible engagement part which is received between the support strips of the other assembly and which flexibly yields sidewise to engage the side of its corresponding second contact maker of the latter assembly when the two assemblies are brought edgewise together with their contact-making edges in registry, lateral and edgewise-rotational displacement of either assembly relative to the other being limited by contact between the edges of said engagement portions of one assembly and the inside surfaces of the support strips of the other assembly.

2,640,184

FUSIBLE EXTENSION CORD PLUG

Arthur G. Bauer, Wantagh, N. Y., assignor, by mesne assignments, to Charles E. Eggers, Great Neck, N. Y.

Original application November 8, 1946, Serial No. 708,547. Divided and this application October 5, 1949, Serial No. 119,735
1 Claim. (Cl. 339—195)



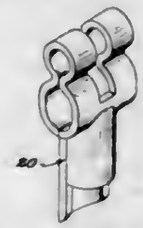
An attachment plug comprising a one-piece body member having a substantially rectangular and relatively deep recess in one end thereof for the removable reception of a circuit completing generally rectangular closure member having laterally projecting finger engageable extensions, a cord receiving aperture extending through the opposite end of the body member and communicating with said recess centrally thereof, a pair of terminal contacts supported by the body member at the base of said recess at opposite sides of said aperture and each provided with a binding screw, a pair of socket engageable prongs supported by the body member and each provided with a contact in spaced and laterally aligned relation to one of said terminal contacts, one of each of said first contacts and second contacts being disposed adjacent one wall of the recess at opposite sides of one prong, the other of said first and second contacts being disposed adjacent the opposite wall of the recess at opposite sides of the other prong, and said body member being provided with a relatively deep slot in each of the other opposite walls of the recess and opening through the upper edges thereof for receiving said finger engageable extensions.

2,640,185

RESILIENT SOLDER TERMINAL

Milton Alden, Wellesley, Mass.

Application November 25, 1950, Serial No. 197,569
9 Claims. (Cl. 339—242)



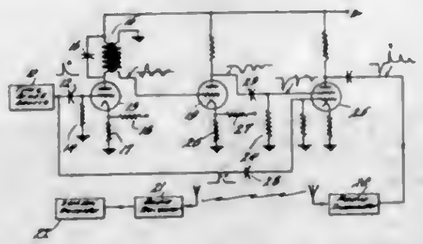
1. A soldering terminal for an electrical lead comprising a strip of conducting material folded back upon itself so that the two end portions lie adjacent each other, each of the end portions being crowned outwardly to impart rigidity to the terminal and permit the end portions to be formed into a shoulder for fastening the terminal to a terminal board, the folded portion being bifurcated to form an aperture for securing the lead during the soldering operation.

2,640,186

SEISMIC SURVEYING

Arthur F. Hasbrook, San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.

Application June 13, 1949, Serial No. 98,783
5 Claims. (Cl. 340—16)



1. Apparatus for use in the recording of time-break signals in seismic surveying including, in combination, an electronic circuit responsive to the time-break pulse to generate a series of pulses having a predetermined time relation with said time-break pulse to provide a signal from which the correct position of the time-break pulse can be determined regardless of its obscurity, a transmitter radiating a carrier signal, and means modulating said carrier with said series of pulses.

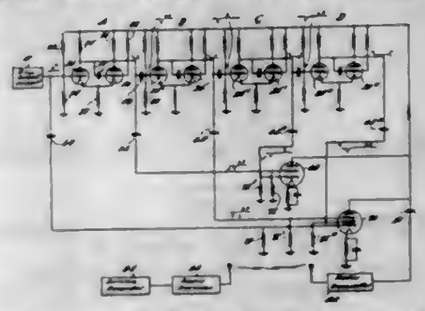
2,640,187

SEISMIC SURVEYING

Arthur F. Hasbrook, San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.

Application June 13, 1949, Serial No. 98,784
6 Claims. (Cl. 340—16)

1. Apparatus for use in the recording of time-break signals in seismic surveying including, in combination, an electronic circuit responsive to the time-break pulse to generate a series of pulses unequally timed and having a predetermined time relation with said time-break pulse to provide a signal from which the correct position of the time-break pulse can be determined regardless of its obscurity, a transmitter radiating a carrier signal, a circuit operatively connected with said transmitter and responsive to said time-break pulse for initiating radiating of said carrier, and



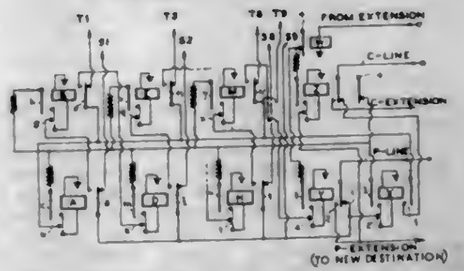
means modulating said carrier with said series of pulses.

2,640,188

CONTROL PULSE DISTRIBUTING SYSTEM

Alfred Kienast, Kuesnacht, Switzerland

Application December 20, 1949, Serial No. 134,033
In Switzerland June 1, 1949
9 Claims. (Cl. 340—147)



9. A control pulse distributing system having relays under control of interlaced pulses transmitted thereto over two conductors, the pulses carried by one of said conductors occurring during space intervals between pulses carried by the other said conductor, said relays being of two series, means including make-before-break contacts operable by each relay for producing successive single relay operations in response to said transmitted pulses, each operation of a relay being effective to prepare a control path for sequential operation of a relay of the other series, a plurality of branch circuits all initially connectable to one of said conductors, a corresponding plurality of branch circuits all initially connectable to the other of said conductors, and break-contacts operable by said relays for causing said branch circuits to be individually opened upon reception of each successive pulse, whereby the number of pulses carried to the branch circuits by each conductor is progressively incremented until the maximum number of pulses is applied to the two branches last to be open-circuited.

2,640,189

OILTIGHT SWITCHBOARD PILOT LIGHT

Arthur B. Johnson, Jr., Maywood, Ill., assignor to Furnas Electric Company, Batavia, Ill., a corporation of Illinois

Application September 20, 1951, Serial No. 247,407
9 Claims. (Cl. 340—381)

6. In an oiltight pilot light, a lamp housing base formed of insulation, a support for said base, a lens cooperable with an electric lamp confined within said base, sealing elements between said base and said support and lens, a common member for sealably clamping said elements and said

base to said support and said lens to said base, and means for holding said base in a predeter-



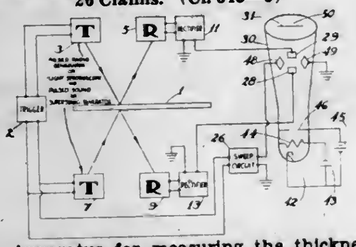
mined position prior to application of said clamping member.

2,640,190

SYSTEM FOR MEASURING THE THICKNESS OF OPAQUE OBJECTS

Robert Harvey Rines, Brookline, Mass.

Application September 4, 1945, Serial No. 614,361
26 Claims. (Cl. 343—5)



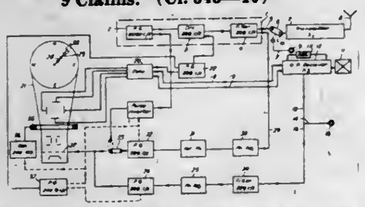
1. Apparatus for measuring the thickness of an opaque object that comprises means for transmitting energy to opposite surfaces of the object along paths each having a predetermined angle of incidence in order that the energy may be reflected from the opposite surfaces of the object along paths each having a corresponding predetermined angle of reflection, means for receiving the reflected energy, means for converting the received energy into electric energy, and means controlled by the electric energy for indicating any change in length of the paths.

2,640,191

COMBINED RADIO DIRECTION AND DISTANCE FINDING SYSTEM

Charles Williams Earp and Richard Francis Cleaver, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application June 21, 1947, Serial No. 756,264
In Great Britain June 21, 1946
9 Claims. (Cl. 343—10)



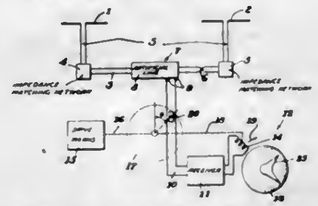
1. A radio direction and distance finding system comprising a fixed station, and a co-operating mobile station whose position relative to said fixed station is to be determined, said fixed station comprising a source of a local electrical wave of given relatively low frequency, a first radio transmitter, and means for modulating said first transmitter by said local wave; said mobile station comprising radio receiver means responsive to energy radiated by said first transmitter, a second radio transmitter, the carrier frequency of which differs from that of said first transmitter, demodulation means, and means for applying the output of said demodulation means to said second transmitter to modulate the energy transmitted therefrom in correspondence with the modulation of the energy to which said receiver means responds; means compensating for the phase shift of said energy produced in passing from the receiver to said second transmitter; said fixed station further comprising means for receiving energy radiated by said second transmitter, means for determining automatically the direction of propagation of said received energy, a cathode ray oscillograph, means for indicating said direction as a directed radial line trace on the screen of said oscillograph; demodulation means for deriving from said received energy a wave of said given low frequency, means for measuring the phase difference between said derived wave and said local wave to determine the distance of said second transmitter from said fixed station, and means for indicating said phase difference on said trace line.

2,640,192

SHIFTABLE DIRECTIONAL ANTENNA

Nathan Marchand, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application September 11, 1944, Serial No. 553,562
20 Claims. (Cl. 343—120)



1. A directional, shiftable radiant acting system, comprising two spaced radiant acting means, impedance matching means for each radiant acting means, coupling means for coupling said radiant acting means together through said impedance matching means, a radiant energy translating means, and phasing means for coupling said translating means to said coupling means in variable phase relation with respect to said two spaced radiant acting means for shifting the directive characteristic of said radiant acting system.

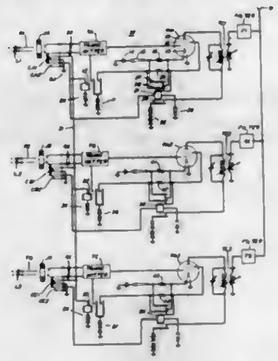
2,640,193

RADIANT ENERGY SIGNALING SYSTEM

Robert William Carter, Milton Griffith Currier, William George Emig, and Kenneth Verley Glentzer, Chicago, Ill., assignors to American Telephone and Telegraph Company, a corporation of New York

Application February 27, 1951, Serial No. 212,986
7 Claims. (Cl. 343—200)

1. A radiant energy signaling system comprising in combination a plurality of transmitters for producing carrier waves, radiating means for radiating said carriers, a plurality of sources of modulating energy, connecting means for selectively connecting said sources to said transmitters for selectively modulating said carriers, starting means responsive to the connection of at least one of said sources to one of said transmitters for effecting the radiation of all of said carriers by said radiating means, some of said radiated carriers being unmodulated, said system being characterized by having means for reducing interference caused by intermodulation products of said carriers, said last-mentioned means including control means for making the power of a carrier produced by a transmitter connected to one of said sources substantally greater than the



power of a carrier produced by an unconnected one of said transmitters, and operating means responsive to the actuation of said connecting means for operating said control means.

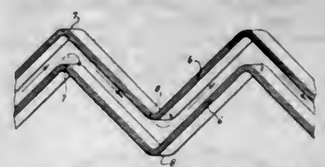
2,640,194

PLATE HEAT EXCHANGER

Robert Pontus Larsson Hytte, Lund, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden

Application July 12, 1949, Serial No. 104,161
In Sweden July 16, 1948
10 Claims. (Cl. 257—256)

10. In a plate heat exchanger, a plurality of heat exchange plates each of which is corrugated



to form alternate ridges and depressions extending transversely of the direction of liquid flow along the plates, the ridges having distortions spaced transversely of said direction to provide each ridge with an irregular shape transversely of said direction, whereby turbulence of said liquid flow is promoted, the spacing between adjacent distortions of each ridge being between one-half and twice the thickness of the liquid layer between adjacent plates.

DESIGNS

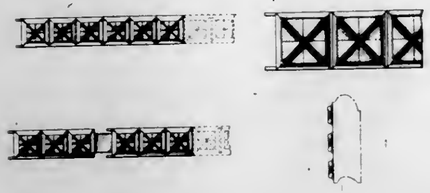
MAY 26, 1953

169,650
WARMING BAG OR THE LIKE
William A. Atkinson, Greggton, Tex.
Application March 7, 1952, Serial No. 18,824
Term of patent 14 years
(Cl. D92—2)



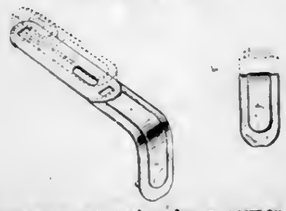
The ornamental design for a warming bag or the like, substantially as shown and described.

169,651
EXPANSIBLE CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Karl C. Augenstein, Cranston, R. I., assignor to Speidel Corporation, Providence, R. I., a corporation of Rhode Island
Application August 1, 1952, Serial No. 20,877
Term of patent 14 years
(Cl. D45—4)



The ornamental design for an expansible chain for a bracelet or similar article, substantially as shown and described.

169,652
CORNER GUARD FOR LUGGAGE
Walter Bialo, New Rochelle, N. Y.
Application March 24, 1952, Serial No. 19,033
Term of patent 7 years
(Cl. D87—1)



The ornamental design for a corner guard for luggage, substantially as shown and described.

169,653
NECKLACE OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application January 27, 1953, Serial No. 23,327
Term of patent 3½ years
(Cl. D45—16)



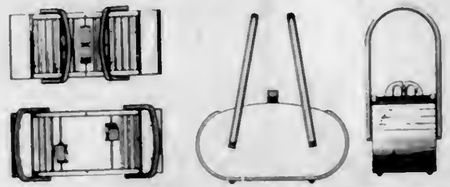
The ornamental design for a necklace or similar article, as shown and described.

169,654
PAPER CUP HOLDER OR SIMILAR ARTICLE
Herbert L. Bennett, Easton, Pa., assignor to Dixie Cup Company, Easton, Pa., a corporation of Delaware
Application July 30, 1952, Serial No. 20,856
Term of patent 14 years
(Cl. D44—9)



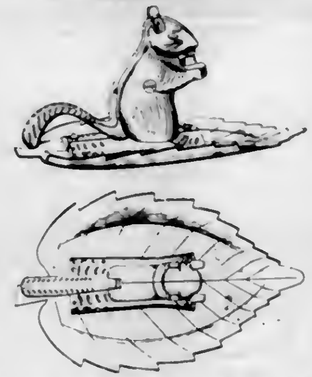
The ornamental design for a paper cup holder or similar article, substantially as shown.

169,655
LADY'S HANDBAG
Paul Brown, New Rochelle, N. Y., assignor to Paul Brown-Greher, Inc., New York, N. Y., a corporation of New York
Application February 2, 1953, Serial No. 23,399
Term of patent 3½ years
(Cl. D87—3)



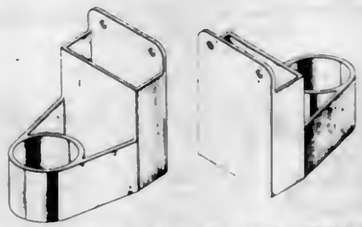
The ornamental design for a lady's handbag, as shown and described.

169,656
NUTCRACKER
Herman E. Cox, Norfolk, Va.
Application March 28, 1952, Serial No. 19,101
Term of patent 3½ years
(Cl. D44—1)



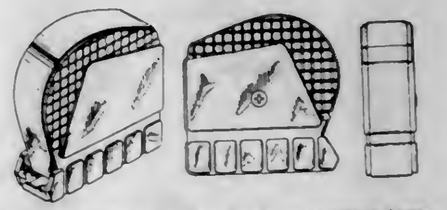
The ornamental design for a nut cracker, as shown and described.

169,657
COMBINED BOOK END AND RECEPTACLE
Vivian E. Cravey, Houston, Tex.
Application March 6, 1953, Serial No. 23,937
Term of patent 14 years
(Cl. D33—1)



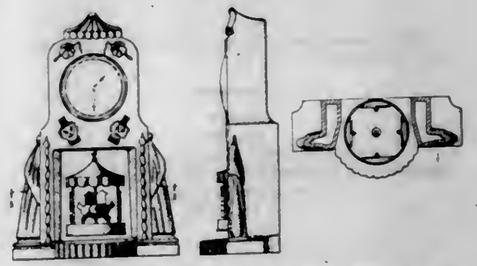
The ornamental design for a combined book end and receptacle, as shown.

169,658
MEASURING TAPE HOUSING
William F. Dart, Mason, Mich.
Application January 7, 1953, Serial No. 23,060
Term of patent 14 years
(Cl. D52—1)



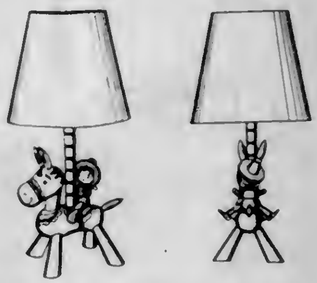
The ornamental design for a measuring tape housing, as shown.

169,659
CLOCKCASE OR SIMILAR ARTICLE
Joseph Gottlieb, Jersey City, N. J.
Application January 27, 1953, Serial No. 23,320
Term of patent 3½ years
(Cl. D42—7)



The ornamental design for a clock case or similar article, substantially as shown and described.

169,660
LAMP
Irmi Ann Gross, New York, N. Y.
Application February 12, 1953, Serial No. 23,582
Term of patent 7 years
(Cl. D48—20)



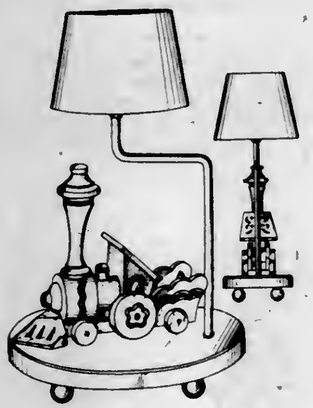
The ornamental design for a lamp, substantially as shown.

169,661
LAMP
Irmi Ann Gross, New York, N. Y.
Application February 12, 1953, Serial No. 23,583
Term of patent 7 years
(Cl. D48—20)



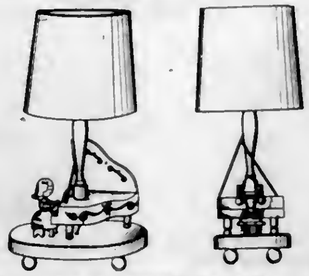
The ornamental design for a lamp, substantially as shown.

169,662
LAMP
Irmi Ann Gross, New York, N. Y.
Application February 18, 1953, Serial No. 23,676
Term of patent 7 years
(Cl. D48—20)



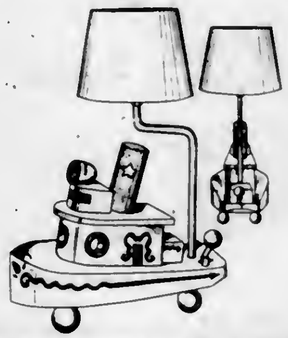
The ornamental design for a lamp, substantially as shown and described.

169,663
LAMP
Irmi Ann Gross, New York, N. Y.
Application February 18, 1953, Serial No. 23,677
Term of patent 7 years
(Cl. D48—20)



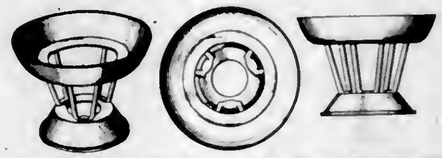
The ornamental design for a lamp, substantially as shown and described.

169,664
LAMP
Irmi Ann Gross, New York, N. Y.
Application February 18, 1953, Serial No. 23,678
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for a lamp, substantially as shown and described.

169,665
FOOD WARMER OR SIMILAR ARTICLE
Robert L. Gruen, New York, N. Y., assignor to Continental Silver Co. Inc., a corporation of New York
Application January 26, 1953, Serial No. 23,294
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a food warmer or similar article, substantially as shown.

169,666
PLACE MAT OR SIMILAR ARTICLE
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 22, 1953, Serial No. 23,254
Term of patent 14 years
(Cl. D92—26)



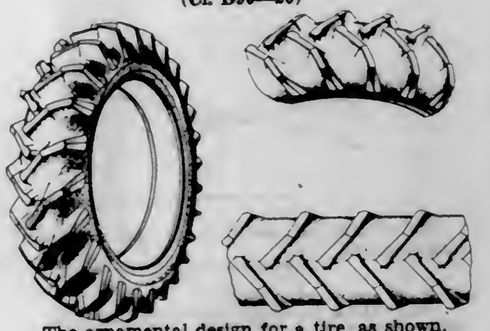
The ornamental design for a place mat or similar article, substantially as shown and described.

169,667
PLACE MAT OR SIMILAR ARTICLE
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 16, 1953, Serial No. 23,636
Term of patent 14 years
(Cl. D92—26)



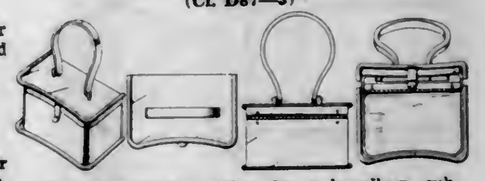
The ornamental design for a place mat or similar article, substantially as shown and described.

169,668
TIRE
William Edward Hardeman, Solihull, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application February 27, 1952, Serial No. 18,690
In Great Britain January 11, 1952
Term of patent 14 years
(Cl. D90—20)



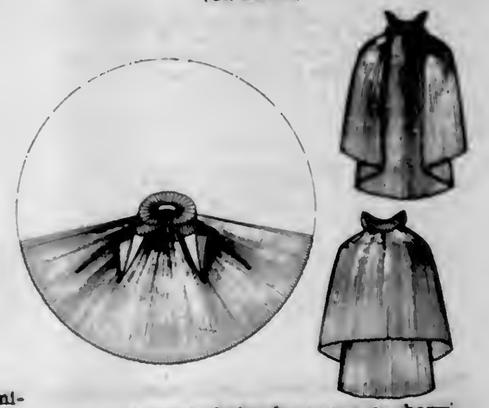
The ornamental design for a tire, as shown.

169,669
HANDBAG
William H. Hardy, River Edge, N. J.
Application January 7, 1953, Serial No. 23,057
Term of patent 14 years
(Cl. D87—3)



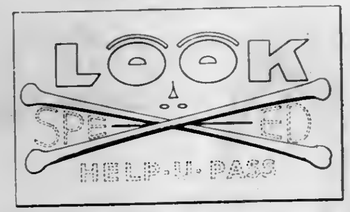
The ornamental design for a handbag, substantially as shown.

169,670
CAPE
Matilda E. Homan, Los Angeles, Calif.
Application December 17, 1952, Serial No. 22,744
Term of patent 7 years
(Cl. D3—3)



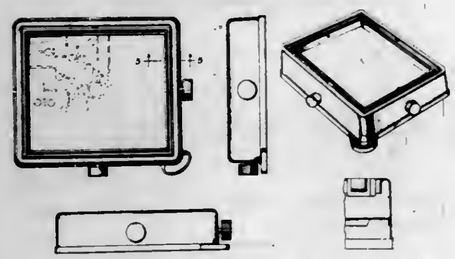
The ornamental design for a cape, as shown.

169,671
SIGN
Frank Homme, Minot, N. Dak.
Application January 6, 1953, Serial No. 23,039
Term of patent 14 years
(Cl. D72—1)



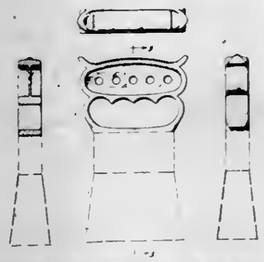
The ornamental design for a sign, as shown and described.

169,672
TILTABLE BOARD GAME APPARATUS
Richard E. Hopkins, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application October 29, 1952, Serial No. 22,036
Term of patent 7 years
(Cl. D34—5)



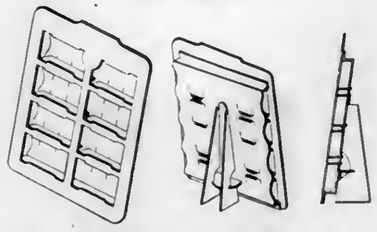
The ornamental design for a tiltable board game apparatus, substantially as shown and described.

169,673
BRUSH OR SIMILAR ARTICLE
Bert Horton, New York, N. Y.
Application July 11, 1951, Serial No. 15,826
Term of patent 7 years
(Cl. D9—2)



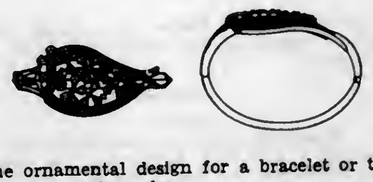
The ornamental design for a brush or similar article, as shown and described.

169,674
DISPLAY UNIT
Herbert Hyams, New York, N. Y.
Application August 23, 1950, Serial No. 11,893
Term of patent 3½ years
(Cl. D80—9)



The ornamental design for a display unit, as shown.

169,675
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,216
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

169,676
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,217
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,677
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 21, 1953, Serial No. 23,221
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,678
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,897
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

169,679
SEPARABLE BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,898
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a separable brooch or the like, substantially as shown.

169,680
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,904
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

169,681
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,910
Term of patent 7 years
(Cl. D45—19)



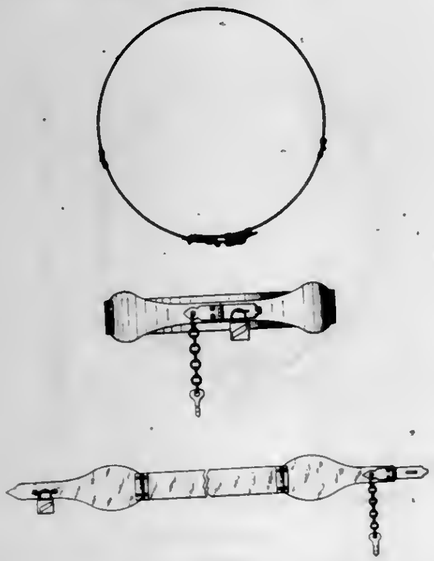
The ornamental design for a brooch or the like, substantially as shown.

169,682
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,911
Term of patent 7 years
(Cl. D45—19)



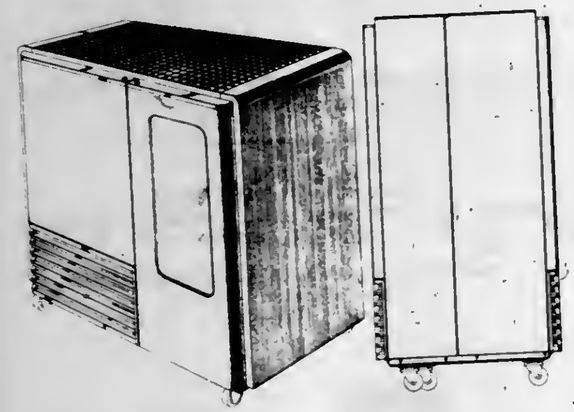
The ornamental design for a brooch or the like, substantially as shown.

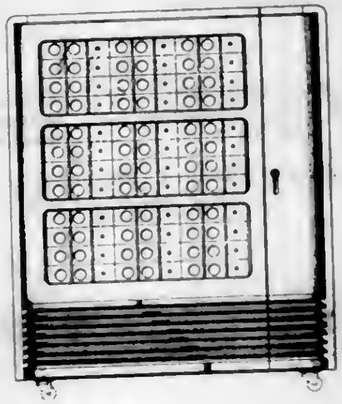
169,683
BELT
Sam Kellerman, Yonkers, N. Y.
Application June 11, 1952, Serial No. 20,123
Term of patent 3½ years
(Cl. D3—10)



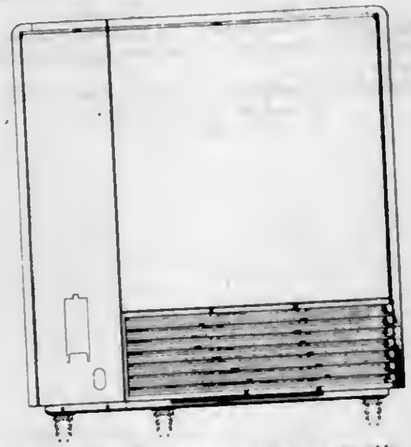
The ornamental design for a belt, substantially as shown.

169,684
MAGNETIC DRUM UNIT
George H. Kress, Endwell, N. Y., and Carl W. Sundberg, Detroit, Mich., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 18, 1952, Serial No. 22,760
Term of patent 14 years
(Cl. D26—5)





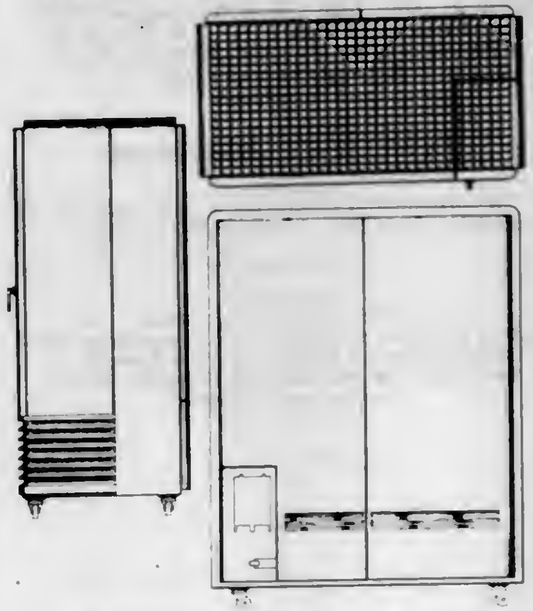
169,684—Continued



The ornamental design for a magnetic drum unit, as shown.

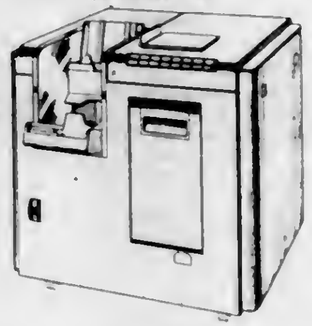
169,685
ELECTROSTATIC STORAGE UNIT
George H. Kress, Endwell, N. Y., and Carl W. Sundberg, Detroit, Mich., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 18, 1952, Serial No. 22,761
Term of patent 14 years
(Cl. D26—5)

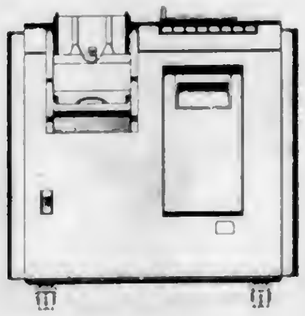
169,685—Continued



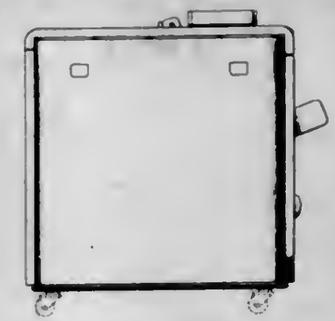
The ornamental design for an electrostatic storage unit, as shown and described.

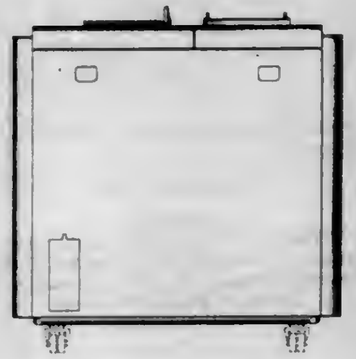
169,686
CARD READER
George H. Kress, Endwell, N. Y., and Carl W. Sundberg, Detroit, Mich., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 18, 1952, Serial No. 22,762
Term of patent 14 years
(Cl. D26—5)





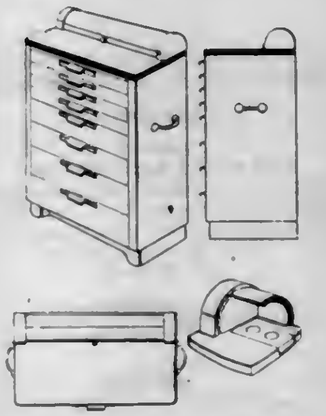
169,686—Continued





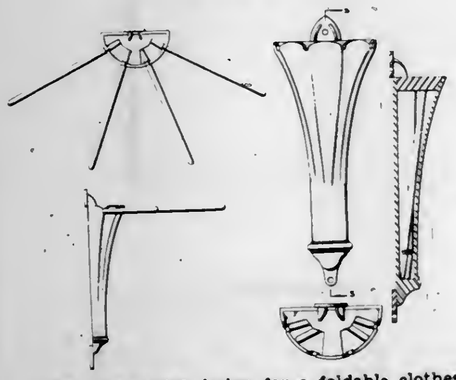
The ornamental design for a card reader, as shown.

169,687
DENTAL CABINET
Jack H. Levey, Los Angeles, Calif.
Application July 18, 1952, Serial No. 20,666
Term of patent 7 years
(Cl. D24—1)



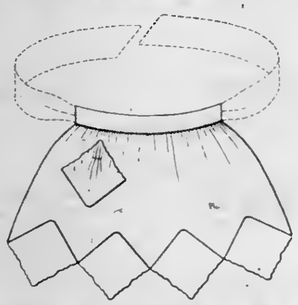
The ornamental design for a dental cabinet, substantially as shown and described.

169,688
FOLDABLE CLOTHESRACK
Gustav H. Meister, Bath, Maine
Application May 16, 1952, Serial No. 19,745
Term of patent 3½ years
(Cl. D33—8)



The ornamental design for a foldable clothes rack, as shown.

169,689
APRON OR SIMILAR ARTICLE
Joseph D. Mizrahi, Los Angeles, Calif.
Application January 12, 1953, Serial No. 23,098
Term of patent 14 years
(Cl. D3—26)



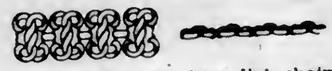
The ornamental design for an apron or similar article, substantially as shown and described.

169,690
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,382
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

169,691
LINK CHAIN FOR A BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,363
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

169,692
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,364
Term of patent 7 years
(Cl. D45—16)



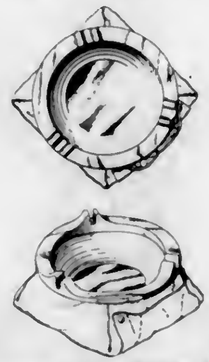
The ornamental design for a necklace or the like, substantially as shown and described.

169,693
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,365
Term of patent 7 years
(Cl. D45—16)



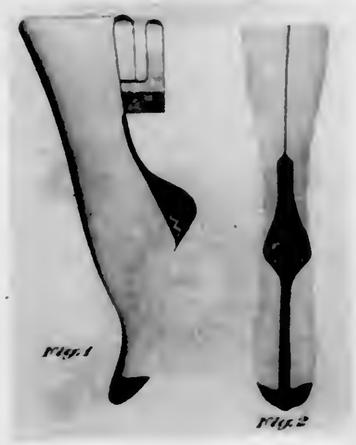
The ornamental design for a necklace or the like, substantially as shown and described.

169,694
ASH TRAY
Stephen M. Quigley, Baldwin Township, Allegheny County, Pa., and Daniel Goodman, Sherman Oaks, Calif.
Application February 24, 1953, Serial No. 23,765
Term of patent 14 years
(Cl. D85—2)



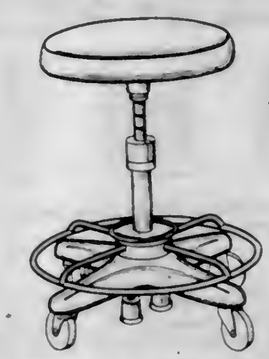
The ornamental design for an ash tray, substantially as shown and described.

169,695
STOCKING
Isidor Rabinowitz, Philadelphia, Pa.
Application January 15, 1952, Serial No. 18,066
Term of patent 14 years
(Cl. D47—7)



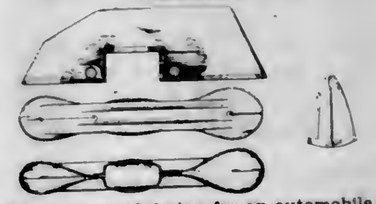
The ornamental design for a stocking, as shown.

169,696
MOBILE STOOL
Edward J. Ries, Brighton, and George E. Christians, Rochester, assignors to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application October 6, 1952, Serial No. 21,708
Term of patent 14 years
(Cl. D15—8)



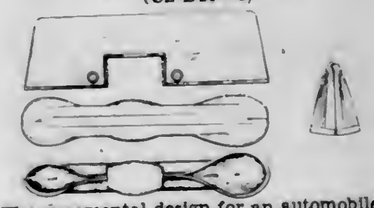
The ornamental design for a mobile stool, substantially as shown.

169,697
AUTOMOBILE DOOR HANDLE AND LOCK PROTECTIVE GLOVE
James K. Rogers, Chicago, Ill.
Application May 28, 1952, Serial No. 19,918
Term of patent 3½ years
(Cl. D10—8)



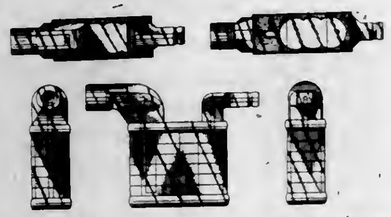
The ornamental design for an automobile door andle and lock protective glove, as shown.

169,698
AUTOMOBILE DOOR HANDLE AND LOCK PROTECTIVE GLOVE
James K. Rogers, Chicago, Ill.
Application May 28, 1952, Serial No. 19,917
Term of patent 3½ years
(Cl. D10—8)



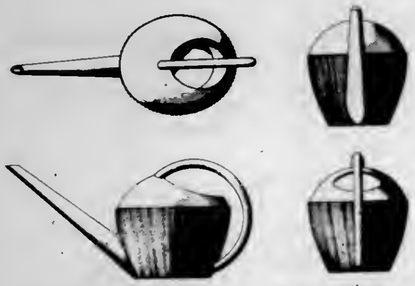
The ornamental design for an automobile door handle and lock protective glove, as shown.

169,699
SMOKING ASPIRATOR
Henry Rotthier, Rock Island, Ill.
Application December 30, 1952, Serial No. 22,919
Term of patent 3½ years
(Cl. D65—8)



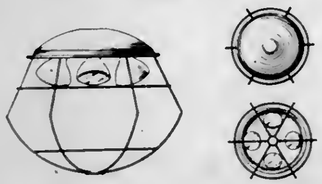
The ornamental design for a smoking aspirator, as shown and described.

169,700
WATERING POT
Leif A. Rowe, Chicago, Ill., assignor to Wm. Thoresen Company, Chicago, Ill., a corporation of Illinois
Application March 5, 1953, Serial No. 23,916
Term of patent 7 years
(Cl. D58—17)



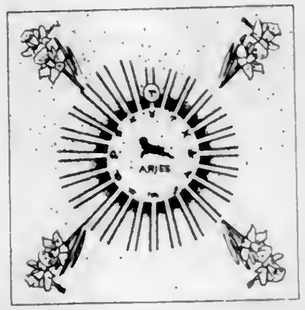
The ornamental design for a watering pot, as shown.

169,701
BROODER HEATER
William Rusnak, Chicago, and Wilbert G. Stoll, Evanston, Ill., assignors to Afco-Lite Corporation, Chicago, Ill.
Application November 5, 1951, Serial No. 17,286
Term of patent 7 years
(Cl. D12—2)



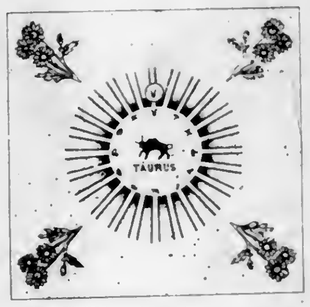
The ornamental design for a brooder heater, substantially as shown.

169,702
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,525
Term of patent 7 years
(Cl. D3—12)



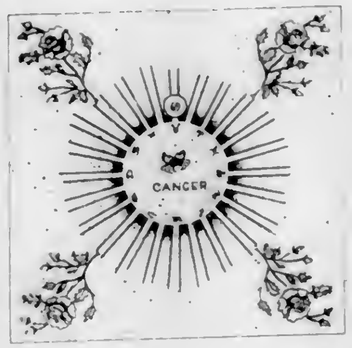
The ornamental design for a handkerchief or the like, substantially as shown.

169,703
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,526
Term of patent 7 years
(Cl. D3—12)



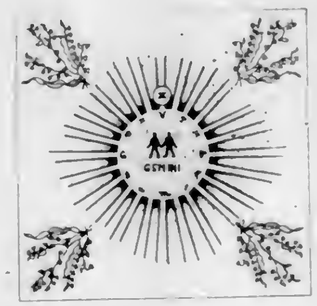
The ornamental design for a handkerchief or the like, substantially as shown.

169,704
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,527
Term of patent 7 years
(Cl. D3—12)



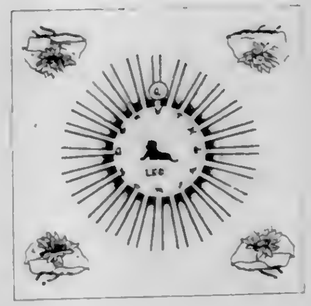
The ornamental design for a handkerchief or the like, substantially as shown.

169,705
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,528
Term of patent 7 years
(Cl. D3—12)



The ornamental design for a handkerchief or the like, substantially as shown.

169,706
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,529
Term of patent 7 years
(Cl. D3—12)



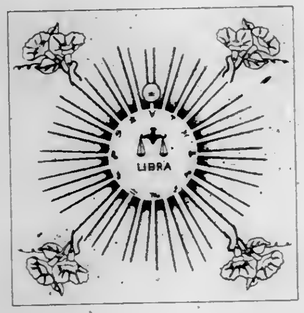
The ornamental design for a handkerchief or the like, substantially as shown.

169,707
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,530
Term of patent 7 years
(Cl. D3—12)



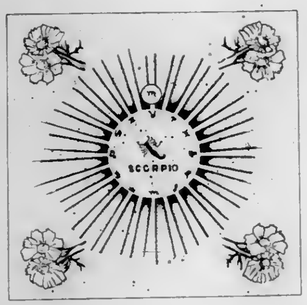
The ornamental design for a handkerchief or the like, substantially as shown.

169,708
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,531
Term of patent 7 years
(Cl. D3—12)



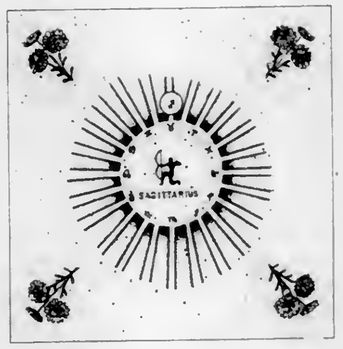
The ornamental design for a handkerchief or the like, substantially as shown.

169,709
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,532
Term of patent 7 years
(Cl. D3—12)



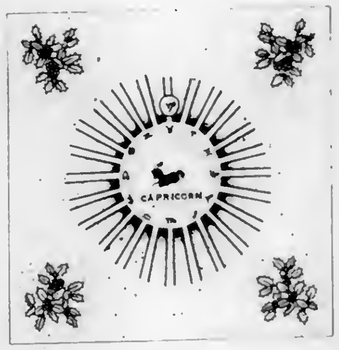
The ornamental design for a handkerchief or the like, substantially as shown.

169,710
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,533
Term of patent 7 years
(Cl. D3—12)



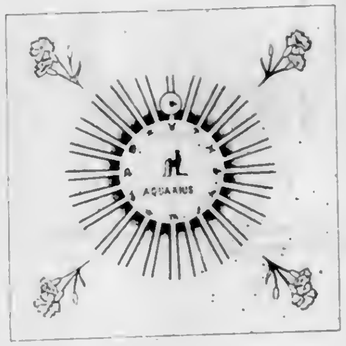
The ornamental design for a handkerchief or the like, substantially as shown.

169,711
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,534
Term of patent 7 years
(Cl. D3—12)



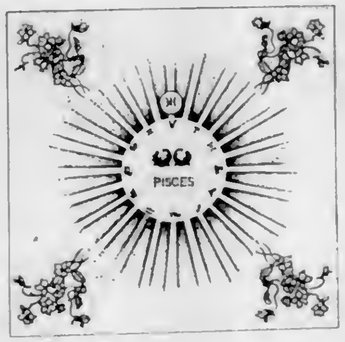
The ornamental design for a handkerchief or the like, substantially as shown.

169,712
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,535
Term of patent 7 years
(Cl. D3—12)



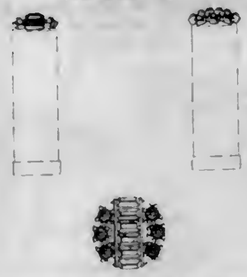
The ornamental design for a handkerchief or the like, substantially as shown.

169,713
HANDKERCHIEF OR THE LIKE
Margaret Sauer, Shaker Heights, Ohio, and Herman Schmidt, New York, N. Y.
Application December 3, 1952, Serial No. 22,536
Term of patent 7 years
(Cl. D3—12)



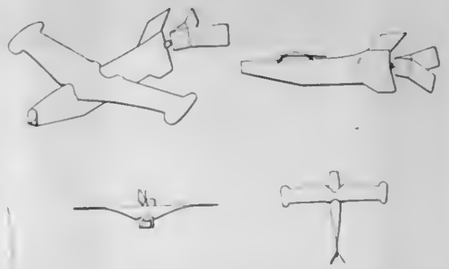
The ornamental design for a handkerchief or the like, substantially as shown.

169,714
JEWELED LIPSTICK CASE
Bertram Schwartz, Croton-on-Hudson, N. Y.
Application October 29, 1952, Serial No. 21,903
Term of patent 3½ years
(Cl. D86—10)



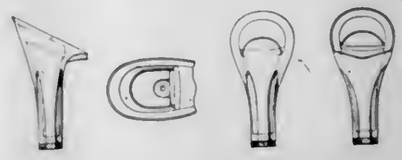
The ornamental design for a jeweled lipstick case, as shown and described.

169,715
TOY AIRPLANE
Thorne F. Stout, Dayton, Ohio
Application June 4, 1952, Serial No. 20,022
Term of patent 14 years
(Cl. D34—15)



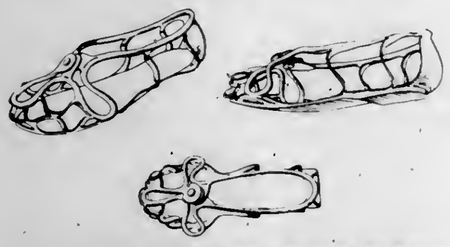
The ornamental design for a toy airplane, substantially as shown and described.

169,716
SHOE HEEL
William J. Walsh, Lemay, Mo.
Application November 20, 1952, Serial No. 22,374
Term of patent 14 years
(Cl. D7—5)



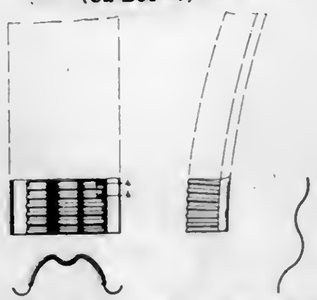
The design for a shoe heel, substantially as shown.

169,717
SANDAL
Paul W. White, New Haven, and Harry A. Webb, Mount Carmel, Conn., assignors to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application March 22, 1952, Serial No. 19,002
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a sandal, substantially as shown and described.

169,718
METAL SHEET
Jack H. Wright, Chicago, Ill.
Application September 27, 1952, Serial No. 21,610
Term of patent 7 years
(Cl. D54—7)



The ornamental design for a metal sheet, as shown and described.

June 2, 1953 Volume 671 Number 1

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business May 15, 1953

Total number of patent applications awaiting action, 98,418. Date of oldest new application, August 8, 1952; date of oldest amended application, August 5, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	8-21-52	8-20-52	1465
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	9-13-52	8-15-52	1129
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-22-52	9-22-52	1941
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	8-25-52	8-26-52	1460
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	9-5-52	9-4-52	1021
6. SURLE, H., Carbon Chemistry (part)	8-15-52	8-8-52	2580
7. GONSALVES, J. E., Optics; Photography (part)	8-22-52	8-14-52	1535
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	9-26-52	9-23-52	1066
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	8-30-52	9-3-52	1255
10. REYNOLDS, F. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	9-17-52	9-17-52	1292
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	8-26-52	8-25-52	1134
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	8-20-52	8-22-52	1252
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	8-20-52	8-13-52	1298
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal); Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	9-2-52	9-2-52	1460
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-20-52	8-20-52	1724
16. LOVEWELL, N. N., Television, Telephony	8-27-52	8-29-52	1527
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	8-28-52	8-28-52	1600
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-24-52	9-10-52	694
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	8-15-52	8-15-52	1164
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	9-5-52	9-8-52	1276
21. MADER, R. C., Textiles	8-26-52	8-23-52	1240
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	9-9-52	9-11-52	929
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	9-3-52	8-27-52	847
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	10-14-52	10-9-52	1068
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	8-15-52	8-14-52	1254
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	9-16-52	9-15-52	1811
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	9-2-52	9-3-52	1217
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	8-26-52	9-8-52	1094
29. HABECKER, L. B., Button Making; Woodworking: Tools; Fluid Treatment of Textiles (Apparatus)	9-4-52	8-18-52	1176
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	10-10-53	10-10-52	1349
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	8-16-52	8-16-52	2433
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation: Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-30-52	10-2-52	1275
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	8-22-52	8-26-52	1835
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	8-28-52	8-27-52	1223
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles	10-9-52	10-6-52	1166
36. McFADYEN, A. D., Measuring and Testing	9-9-52	9-9-52	1066
37. LEVY, M. L., Electricity—Switches, Welding, Heating; Recorders	9-19-52	9-15-52	1945
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	8-29-52	8-25-52	1532
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	10-28-52	10-27-52	1727
40. DRUMMOND, E. J., Receptacles (part); Packages	11-13-52	11-12-52	1040
41. GURLEY, R. B., Check Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-30-52	9-29-52	862

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection Signals; Telegraph (part); Signals and Indicators.	9-2-52	9-3-52	1080
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	9-8-52	9-8-52	1713
44. COBLE, A. S. (Acting), Beds; Chairs; Seats	9-12-52	9-12-52	1182
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal-Draft Appliances.	9-23-52	9-19-52	1326
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	8-21-52	8-18-52	1055
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	8-21-52	8-21-52	1648
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	8-26-52	8-28-52	1689
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	9-12-52	9-5-52	1307
50. BENGEL, W. G., Synthetic Resins; Rubber	10-21-52	10-23-52	1588
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Signaling); Radiant Energy Communications (part, e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	8-20-52	8-21-52	1515
52. WHITNEY, F. I., Supports; Joint Packing; Valved, Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	9-29-52	10-2-52	1865
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	9-18-52	9-17-52	968
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	8-29-52	8-29-52	1833
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	9-8-52	9-8-52	979
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	9-27-52	9-29-52	1271
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-9-52	10-8-52	1609
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	8-25-52	8-14-52	1402
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	9-25-52	9-8-52	1393
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994)			
61. STRIZAK, J. P. (Acting), Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery	9-8-52	9-3-52	1022
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	9-18-52	9-22-52	1179
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	8-25-52	8-19-52	1869
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	8-20-52	8-20-52	1815
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	9-16-52	9-15-52	1355
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	9-3-52	8-25-52	819
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making	9-18-52	9-12-52	1702
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	10-20-52	10-15-52	1367
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	9-13-52	9-10-52	1127
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	8-8-52	8-5-52	3293
DESIGNS: A—BREHM, O. L., Industrial Arts	1-16-53	1-19-53	800
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	1-16-53	2-9-53	665

Number of new applications received week ending May 1, 1953

PATENTS 1,534 DESIGNS 143 REISSUES 2 TOTAL 1,679

Total number of trade-mark applications awaiting action (including renewals and republications), 11,314.
Date of oldest new application, Dec. 16, 1952; date of oldest amended application, Dec. 12, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	12-16-52	12-16-52	2884
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	12-31-52	12-26-52	2554
Renewals (All Classes)	3-17-53	4-27-53	591
Republications (All Classes)	3-31-53	3-25-53	367
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	1-5-53	12-12-52	2555
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service-Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	12-29-52	12-24-52	2363

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Air Reduction Company, Incorporated, New York, N. Y. Surgical operating tables. Serial No. 627,163, June 2. Class 44.

Albers Super Markets, Inc., Cincinnati, Ohio. Cookies. Serial No. 641,825, June 2. Class 46.

Alexander Doll Company, Inc., New York, N. Y. Dolls. Serial No. 628,247, June 2. Class 22.

Allen, S. L., & Co., Inc., Philadelphia, Pa. Sleds and skis. Serial No. 635,454, June 2. Class 22.

Allied Stores Corporation, New York, N. Y. Women's, misses', and juniors' dresses. Serial No. 637,855, June 2. Class 39.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrical conductivity meters, etc. Serial No. 619,002, June 2. Class 26.

Aloe, A. S., Company, St. Louis, Mo. X-ray machines. Serial No. 624,709, June 2. Class 44.

Altman, B., & Co., New York, N. Y. Dining room furniture; and bedroom furniture. Serial No. 635,339, June 2. Class 32.

American Art Clay Company, Indianapolis, Ind. Modeling clay, clay flour, moist clay, etc. Serial No. 610,253, June 2. Class 1.

American Colortype Company, Chicago, Ill. Periodical publication. Serial No. 623,294, June 2. Class 38.

American Oil Company, Baltimore, Md. Gasoline. Serial No. 613,663, June 2. Class 15.

American Porcelain Tooth Company Ltd., Nahlat Itzhak, near Tel-Aviv, Israel. Artificial teeth. Serial No. 633,293, June 2. Class 44.

American Stores Company, Philadelphia, Pa. Cleanser and pine oil cleanser disinfectant. Serial No. 606,843, June 2. Class 52.

Amplifier Corporation of America, New York, N. Y. Magnetically operated recording and playback apparatus. Serial No. 621,496, June 2. Class 21.

Arlington Window Shade Corporation, New York, N. Y. Metal Venetian blinds. Serial No. 590,251, June 2. Class 32.

Arliss, Charles, doing business as Premier Plastics Co., Brooklyn, N. Y. Toy water pistol. Serial No. 636,915, June 2. Class 22.

Armand Company, The, Des Moines, Iowa. Cigarettes. Serial No. 636,457, June 2. Class 17.

Armour and Company, assignee: *See*—
Lookout Oil and Refining Company.

Associated Cheese Distributors: *See*—
Wollman, Albert E.

Associated Merchandising Corporation, The, New York, N. Y. Golf clubs. Serial No. 641,894, June 2. Class 22.

Atalanta Trading Corporation, New York, N. Y. Canned ham. Serial No. 635,303, June 2. Class 46.

August, Jacob, doing business as Jack August's, Northampton, Mass. Canned clam chowder, bottled tartar sauce, canned fish chowder, etc. Serial Nos. 633,482-3, June 2. Class 46.

August's, Jack: *See*—
August, Jacob.

Automatic Canteen Company of America, Chicago, Ill. Leasing of vending machines. Serial No. 592,691, June 2. Class 100.

Ballard & Ballard Co., Louisville, Ky., assignor to Pillsbury Mills, Inc. Uncooked or unbaked dough. Serial No. 541,387, June 2. Class 46.

Bankers Securities Corporation, doing business as Snellenburgs, Philadelphia, Pa. Mattresses, box springs, day beds, etc. Serial No. 637,297, June 2. Class 32.

Bari, Jean, & Co., Inc. Import-Export, Cliffside Park, N. J. Canned tomatoes, tomato paste, manufactured macaroni, cheese. Serial No. 639,406, June 2. Class 46.

Bartmann & Bixter, Inc., New York, N. Y. Window curtains. Serial No. 639,310, June 2. Class 42.

Bee'-Jay Bait Co., North Kansas City, Mo. Fish bait. Serial No. 641,901, June 2. Class 22.

Beepers Novelty Corp., New York, N. Y. Toy. Serial No. 632,646, June 2. Class 22.

Belcano Company, Jersey City, N. J. Perfumes. Serial No. 602,741, June 2. Class 51.

Ben Hur Coal Co. Inc., Henryetta, Okla. Coal. Serial No. 634,569, June 2. Class 1.

Best Wear Products, Inc., New York, N. Y., assignee of Rubin-Meltzer Company. Men's, women's, and children's underwear, pajamas, and sweaters. Serial No. 622,958, June 2. Class 39.

Beta Theta Pi, Oxford, Ohio. Recruiting and pledging prospective members of the chapters of a National collegiate fraternity. Serial No. 621,998, June 2. Class 100.

Bettermade Garment Company, Los Angeles, Calif. Women's wearing apparel. Serial No. 638,239, June 2. Class 39.

Bifex Foundations, Inc., New York, N. Y. Girdles. Serial No. 640,324, June 2. Class 39.

Big Bear Stores Company, Columbus, Ohio. Coffee and for blended flour. Serial No. 595,118, June 2. Class 46.

Blatz Brewing Company, Milwaukee, Wis. Beer. Serial No. 637,106, June 2. Class 48.

Bleach-Ox Chemical Co.: *See*—
Rosati, Luigi.

Boudreaux, Charles J., Abbeville, La. Ointment. Serial No. 617,334, June 2. Class 18.

Bowater Paper Company, Inc., New York, N. Y. Newsprint paper, strawboard, one side bleached woodpulp board, etc. Serial No. 627,069, June 2. Class 37.

Boy-Crest Clothes, Inc., New York, N. Y. Boys' suits and slacks. Serial No. 628,464, June 2. Class 39.

Boyd-Britton, Incorporated, Chicago, Ill. Partition forming storage cabinets. Serial No. 577,095, June 2. Class 32.

Bronzini, Ltd., New York, N. Y. Men's neckties, handkerchiefs, gloves, etc. Serial No. 636,338, June 2. Class 39.

Brooks, Inc., Homestead, Fla. Fresh limes, avocadoes, and mangoes. Serial No. 637,476, June 2. Class 46.

Buchanan, U. B., New York, N. Y. Men's, women's, and children's hosiery. Serial No. 638,399, June 2. Class 39.

Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Typewriter ribbons and carbon paper. Serial No. 608,747, June 2. Class 11.

Burgess-Norton Mfg. Co., Geneva, Ill. Piston pins and ball bearings. Serial No. 635,994, June 2. Class 23.

Butler Brothers, Chicago, Ill. Piece goods. Serial No. 638,472, June 2. Class 42.

Carter Carburetor Corporation, St. Louis, Mo. Carburetors and fuel pumps and parts thereof. Serial No. 559,211, June 2. Class 23.

Chapman & Sons Hosiery Company, Shreveport, La. Men's, women's, and children's hosiery. Serial No. 638,401, June 2. Class 39.

Chek-Chart Corporation, The, Chicago, Ill. Publications and prints. Serial No. 626,561, June 2. Class 38.

Chemo Puro Manufacturing Corporation, Long Island City, N. Y. Theophylline salt. Serial No. 633,608, June 2. Class 18.

Chicago Metallic Mfg. Co., Chicago, Ill. Cooking and baking utensils. Serial No. 638,834, June 2. Class 13.

Chicago Tribune, The: *See*—
Tribune Company.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder and paprika. Serial No. 642,198, June 2. Class 46.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili pepper. Serial No. 643,646, June 2. Class 46.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili pepper. Serial No. 643,648, June 2. Class 46.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder. Serial No. 643,649, June 2. Class 46.

Chippewa Shoe Co., Chippewa Falls, Wis. Leather boots and shoes. Serial No. 624,632, June 2. Class 39.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation for sex hormone therapy. Serial No. 628,091, June 2. Class 18.

Cincinnati Industries Inc., Cincinnati, Ohio. Receptacles. Serial No. 635,026, June 2. Class 2.

Cisco-California, Inc., Los Angeles, Calif. Ladies', men's, and boys' swimsuits and swimming trunks. Serial No. 637,361, June 2. Class 39.

Clavin, Joseph, & Co. Inc., New York, N. Y. Men's overcoats, sport jackets, and men's suits. Serial No. 638,754, June 2. Class 39.

Cleveland Skate Co., Inc., The, Cleveland, Ohio. Roller skates and parts thereof. Serial No. 639,741, June 2. Class 22.

Close-Up, Inc., New York, N. Y., and St. Louis, Mo. Magazine. Serial No. 639,534, June 2. Class 38.

Coleman, Dorothy, Chicago, Ill. Candy. Serial No. 617,946, June 2. Class 46.

Colorado Fuel and Iron Corporation, The, Denver, Colo. Bolts. Serial No. 638,836, June 2. Class 13.

Columbia Mills, Inc., The, Syracuse, N. Y. Window shade rollers. Serial No. 631,604, June 2. Class 32.

Consolidated Citrus Growers, Mesa, Ariz. Fresh citrus fruits. Serial No. 633,287, June 2. Class 46.

Continental Grill, Wichita, Kans. Sandwiches and bakery goods. Serial No. 619,451, June 2. Class 46.

Continental X-Ray Corporation, Chicago, Ill. General diagnostic X-ray power tube and control units, etc. Serial No. 632,773, June 2. Class 44.

Copydex Manufacturing Co. Ltd., London, England. Rubber base liquid adhesives. Serial No. 614,492, June 2. Class 3.

Cornwall & Co.: *See*—
Cornwall, Earl W.

Cornwall, Earl W., doing business as Cornwall & Co., Euclid, Ohio. Moisture vent tubes. Serial No. 618,787, June 2. Class 34.

Coughlan, G. N., Company, West Orange, N. J. Silver cleaner. Serial No. 637,036, June 2. Class 52.
Cowles Magazines, Inc., Des Moines, Iowa, and New York, N. Y. Section in a periodical publication. Serial No. 640,104, June 2. Class 38.
Crag Products, Inc., Newark, N. J. Ingredient for addition to adhesive cements. Serial No. 624,026, June 2. Class 5.
Crucible Steel Company of America, New York, N. Y. Steel. Serial No. 642,624, June 2. Class 14.
Custanite Corporation, The, Larchmont, N. Y. Soft hammers. Serial No. 632,828, June 2. Class 23.
Dapol Plastics, Inc., Worcester, Mass. Spice racks, napkin holders, and salt and pepper sets. Serial No. 636,777, June 2. Class 2.
Debevoise Company, The, Brooklyn, N. Y. Paint. Serial No. 636,119, June 2. Class 16.
Deep Run Packing Company: *See*—
Smith, Willard H.
Delira Corporation, Los Angeles, Calif. Toy pistols, toy tents, toy lassos, etc. Serial No. 638,525, June 2. Class 22.
Denkert, M., & Company, Johnstown, N. Y. Baseball gloves and mitts, foot balls, basket balls and volley balls. Serial No. 638,902, June 2. Class 22.
Dispensers, Inc., Los Angeles, Calif. Kitchen scoop for serving food. Serial No. 639,025, June 2. Class 23.
DoAll Company, The, Des Plaines, Ill. Supply cabinets. Serial No. 630,393, June 2. Class 32.
DoAll Company, The, Des Plaines, Ill. Electrical apparatus. Serial No. 630,399, June 2. Class 21.
Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Aliphatic esters and ketones, photographic film developers, etc. Serial No. 633,817, June 2. Class 6.
Dodge & Olcott, Inc., New York, N. Y. Solvents and solvent mixtures. Serial No. 629,934, June 2. Class 6.
Dominion Corset Company, Limited, Quebec, Quebec, Canada. Corsets, girdles, brassières and foundation garments. Serial No. 597,046, June 2. Class 39.
Doud Milling Company, Denison, Iowa. Pancake flour, corn meal, rye graham flour, etc. Serial No. 627,626, June 2. Class 46.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 626,448, June 2. Class 12.
Doulton & Co. Limited, Burslem and London, England. Earthenware, porcelain, or bone china dinnerware, decorative plates, etc. Serial No. 633,573, June 2. Class 30.
Doutt, Kingsley A., Detroit, Mich. Hydraulically operated control unit. Serial No. 613,706, June 2. Class 23.
Dudley, Anderson and Yutzy, New York, N. Y. Newspaper column. Serial No. 632,159, June 2. Class 38.
Duluth Universal Milling Company, Duluth, Minn. Wheat flour. Serial No. 607,662, June 2. Class 46.
Dupler, Raymond R., Toledo, Ohio. Hot air furnaces. Serial No. 635,127, June 2. Class 34.
Dupli-Color Products Company, Inc., Chicago, Ill. Lacquers and paints. Serial No. 627,256, June 2. Class 16.
Duratube & Wire Limited, Feltham, Middlesex, England. Jointing material. Serial No. 638,372, June 2. Class 12.
Edroy Products Company: *See*—
Herbert, Edward J.
Energized Materials Corporation, Chicago, Ill. Stretched thermoplastic films. Serial No. 636,607, June 2. Class 1.
Englishtown Cutlery, Ltd., New York, N. Y. Flatware of base metal. Serial No. 515,300, June 2. Class 23.
Escondido Lemon Association, assignee: *See*—
Escondido Orange Association.
Escondido Orangé Association, Escondido, Calif., assignee of Escondido Lemon Association. Fresh citrus fruits. Serial Nos. 545,110–11, June 2. Class 46.
Estwing Manufacturing Company, Incorporated, Rockford, Ill. Hammers and hatchets. Serial No. 620,776, June 2. Class 23.
European Coast Chemical House: *See*—
Wong, Howard.
Fairfield Laboratories, Inc., Plainfield, N. J. Shampoo. Serial No. 627,055, June 2. Class 52.
Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Adhesives. Serial No. 633,149, June 2. Class 5.
Fellows Gear Shaper Company, The, Springfield, Vt. Gear cutting machines, gear lapping machines, gear burnishing machines, etc. Serial No. 490,374, June 2. Class 23.
Femode Foundations, Inc., New York, N. Y. Ladies' and misses' corsets, corselettes, girdles, etc. Serial No. 640,506, June 2. Class 39.
Ford Motor Company, Dearborn, Mich. Motor cars. Serial No. 643,873, June 2. Class 19.
Ford Steel Products Corporation, of New York: *See*—
Ford, Wellman B.
Ford, Wellman B., doing business under the name and style of Ford Steel Products Corporation, of New York, Tarrytown, N. Y. Electric water heaters. Serial No. 638,709, June 2. Class 21.
Fruit Products Corporation, New York, N. Y. Imitation chocolate coating. Serial No. 618,961, June 2. Class 46.
Fuller Brush Company, The, Hartford, Conn. Carpet sweepers. Serial No. 632,813, June 2. Class 23.
Galesburg Vault Company: *See*—
Smith, Samuel M.
Garan Chemical Corporation, Los Angeles, Calif. Lacquer type parting agent. Serial No. 634,406, June 2. Class 1.
Garan Chemical Corporation, Los Angeles, Calif. Internal parting agent. Serial No. 634,407, June 2. Class 1.
Gaylord Products, Incorporated, Chicago, Ill. Hair nets. Serial No. 640,509, June 2. Class 39.
Gaylord-Shelton, Inc., Chicago, Ill. Wire wheel discs. Serial Nos. 642,966–7, June 2. Class 19.
Gazzoni, A., & C., Bologna, Italy. Powders for making effervescent water used as an alkalizing agent. Serial No. 623,758, June 2. Class 18.
Geisha Robe Co. Inc., New York, N. Y. Girls' and misses' sleeping and lounging pajamas, bath robes, lounging robes, etc. Serial No. 638,904, June 2. Class 39.
General Electric Company: *See*—
Locke Incorporated.
General Latex & Chemical Corporation, Cambridge, Mass. Natural, synthetic rubber, or rubber-like powder or pellets. Serial No. 635,361, June 2. Class 1.
General Motors Corporation, Detroit, Mich. Cigarette lighters. Serial No. 630,033, June 2. Class 8.
General Motors Corporation, Detroit, Mich. Metal tubing. Serial No. 639,034, June 2. Class 13.
Gevaert Photo-Producten N. V., Mortsel, Belgium. Light sensitive materials for use in photography. Serial No. 605,952, June 2. Class 26.
Gilman Paint and Varnish Company, Chattanooga, Tenn. Varnish. Serial No. 607,897, June 2. Class 16.
Glencoe Mills, Burlington, N. C. Cotton piece goods. Serial No. 632,933, June 2. Class 42.
Glostex Products, Inc., Chicago, Ill. Seat covers for automobiles and boats. Serial No. 637,437, June 2. Class 19.
Goodwin, Norris: *See*—
Sanders, G. G.
Gothé, David E., New York, N. Y. Perfume, toilet water, eau de cologne. Serial No. 631,662, June 2. Class 51.
Grant Publishing Corporation, Chicago, Ill. Greeting and Christmas cards. Serial No. 639,754, June 2. Class 38.
Gravi-I-Flo Corporation, The, Sturgis, Mich. Tumbling machines and parts thereof. Serial No. 612,321, June 2. Class 23.
Growers Supply Co.: *See*—
Smith-Douglass Company, Inc.
Haeger Potteries, Inc., The, Dundee, Ill. Various ceramic products. Serial No. 615,829, June 2. Class 30.
Hall, Robert, Clothes, Inc., New York, N. Y. Men's suits. Serial No. 626,626, June 2. Class 39.
Hank Sign & Display Co., Adams, Mass. Silk screen type printing machines. Serial No. 609,857, June 2. Class 23.
Hansen Glove Corporation, Milwaukee, Wis. Men's and ladies' gloves. Serial No. 639,883, June 2. Class 39.
Harbil Manufacturing Co., Chicago, Ill. Paint mixers. Serial No. 641,185, June 2. Class 23.
Harrison Paint & Varnish Company, The, Canton, Ohio. Ready mixed oil paints, paint enamels and varnishes. Serial No. 607,673, June 2. Class 16.
Hat Corporation of America, Norwalk, Conn. Hats. Serial No. 636,981, June 2. Class 39.
Hawkinson, Paul E., Company, Minneapolis, Minn. Tire buffing machines and rims therefor. Serial No. 622,824, June 2. Class 23.
Heacock, Lee F., Jr., doing business as Selector Company, New York, assignor to Selector Production Corporation, Yonkers, N. Y. Business directory inserts. Serial Nos. 627,443–4, June 2. Class 38.
Health Information Foundation, New York, N. Y. Gathering and distributing basic information about health, etc. Serial No. 625,737, June 2. Class 100.
Hearst Corporation, The, New York, N. Y. Newspaper section or column. Serial No. 640,212, June 2. Class 38.
Heat-Timer Corporation, New York, N. Y. Electronic smoke detecting and burner control apparatus. Serial No. 610,685, June 2. Class 26.
Herbert, Edward J., doing business under the firm name and style of Edroy Products Company, New York, N. Y. Fishing boxes. Serial No. 622,541, June 2. Class 22.
Hercules Powder Company, Wilmington, Del. Magazine. Serial No. 639,638, June 2. Class 38.
Holland House Coffee and Tea Corp., Long Island City, N. Y. Tea. Serial No. 627,391, June 2. Class 46.
Honan-Crane Corporation, Lebanon, Ind. Skid supported hopper. Serial No. 606,529, June 2. Class 23.
Igersheim, Oscar F., doing business under the name of Plastic Fabricators, New York, N. Y. Partitioned boxes, cartons, and cases. Serial No. 637,993, June 2. Class 2.
Imperial Brassiere Corp., New York, N. Y. Ladies' and misses' brassières, bandeaux, and girdles. Serial No. 640,516, June 2. Class 39.
Indianapolis Paint & Color Co., Indianapolis, Ind. Ready-mixed paints, varnishes, enamels, etc. Serial No. 637,871, June 2. Class 16.
Indola N. V., Voorburg, Netherlands. Ventilating fans, or blowers. Serial No. 627,884, June 2. Class 34.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Pneumatically-operated punches. Serial No. 611,899, June 2. Class 23.
International Minerals & Chemical Corporation, Chicago, Ill. Natural cellulosic material. Serial No. 636,786, June 2. Class 1.
International Paint Company, Inc., New York, N. Y. Ready-mixed paints and tinting colors. Serial No. 618,798, June 2. Class 16.
Jerks Socks, Inc., Cincinnati, Ohio. Men's, women's, and children's hosiery. Serial No. 639,117, June 2. Class 39.
Johnson, S. C., & Son, Inc., Racine, Wis. Floor and furniture polish. Serial No. 637,131, June 2. Class 4.
Jolly Rancher, Incorporated, The, Wheat Ridge, Colo. Candy. Serial No. 639,332, June 2. Class 46.
Joy Manufacturing Company, Pittsburgh, Pa. Air motors—rotary; carpullers; compressors; continuous miners; conveyors; etc. Serial No. 606,945, June 2. Class 23.
Kadechka, Norma T., St. Louis Park, assignor to Lick, Inc., Minneapolis, Minn. Scalp and dandruff preparation. Serial No. 635,770, June 2. Class 51.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Bacon and ham. Serial No. 615,647, June 2. Class 46.
Kali Manufacturing Company, Philadelphia, Pa. Chemical preparations. Serial No. 626,169, June 2. Class 6.
Kaydette Mfg. Corp., New York, N. Y. Household aprons, garment pockets, and children's sun suits. Serial No. 633,772, June 2. Class 39.
Kayser, Julius, & Co., New York, N. Y. Gloves. Serial No. 637,997, June 2. Class 39.
Kiefer-Stewart Company, Indianapolis, Ind. Witch hazel jelly, hair tonic, and cologne water. Serial No. 638,588, June 2. Class 51.
King-Seeley Corporation, Ann Arbor, Mich. Governors for internal combustion engines. Serial No. 585,534, June 2. Class 23.
Kingston Products Corporation, Kokomo, Ind. Electric vacuum cleaners, radio receiving sets, battery chargers, etc. Serial No. 620,509, June 2. Class 21.
Kleinert, I. B., Rubber Company, New York, N. Y. Infants' wear. Serial No. 605,554, June 2. Class 39.
Klinke Hatchery: *See*—
Klinke, M. E.
Klinke, M. E., doing business as Klinke Hatchery, Madison, Wis. One-meal serving size ready-to-cook fresh frozen turkeys. Serial No. 641,059, June 2. Class 46.
Kress, S. H., and Company, New York, N. Y. Floor mops. Serial No. 638,720, June 2. Class 29.
Kurfees Paint Company, Louisville, Ky. Thickener for thickening prepared or ready mixed liquid paints. Serial No. 625,424, June 2. Class 16.
Laclede-Christy Company, St. Louis, Mo. Technical publication. Serial No. 638,423, June 2. Class 38.
Laher Spring & Tire Corp., Oakland, Calif. Automobile springs. Serial No. 639,888, June 2. Class 10.
Lally, R., Co., Evanston, Ill. Woven or knitted laundry and dry-cleaning bags. Serial No. 600,540, June 2. Class 2.
Lambert Company, The, doing business as John Hudson Moore Co., Division of The Lambert Company, New York, N. Y., and Jersey City, N. J. Hand soap. Serial No. 634,791, June 2. Class 52.
Larus & Brothers Company, Richmond, Va. Tobacco and tobacco products. Serial No. 642,359, June 2. Class 17.
Lehn & Fink Products Corporation, Bloomfield, N. J. Cologne. Serial No. 637,600, June 2. Class 51.
Leis Undergarment Co., Inc., New York, N. Y. Slips. Serial No. 626,629, June 2. Class 39.
Lick, Inc., assignee: *See*—
Kadechka, Norma T.
Lilliston Implement Company, Albany, Ga., Mowing machines. Serial No. 628,819, June 2. Class 23.
Lind & Lind, Seattle, Wash. Canned cat food. Serial No. 635,367, June 2. Class 46.
Locke Incorporated, Baltimore, Md., now by merger General Electric Company. Trade catalog. Serial No. 586,643, June 2. Class 38.
Loft Candy Corporation, also doing business as Loft Candy Shops, Long Island City, N. Y. Ice cream. Serial No. 628,156, June 2. Class 46.
Loft Candy Shops: *See*—
Loft Candy Corporation.
Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company. Lard. Serial No. 627,201, June 2. Class 46.
Lorillard, P., Company, New York, N. Y. Cigarettes. Serial No. 629,115, June 2. Class 17.
M. K. M. Hosiery Mills, Inc., Boston, Mass. Women's hosiery. Serial No. 617,762, June 2. Class 39.
Magnaflux Corporation, Chicago, Ill. Apparatus consisting of an air compressor and a powder spray gun. Serial No. 628,179, June 2. Class 26.
Manchester Knitted Fashions, Inc., Manchester, N. H. Men's, women's, boys', and girls' knitted and woven outerwear. Serial No. 638,265, June 2. Class 39.
Marlboro Fabrics, Inc., New York, N. Y. Fabrics in the piece. Serial No. 628,215, June 2. Class 42.
Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. Serial No. 635,369, June 2. Class 31.
Mattoz and Moore, Inc., Indianapolis, Ind. Gun-like hypodermic device. Serial No. 628,218, June 2. Class 44.
McCoy's Products, Inc., New York, N. Y. Mineral tablets. Serial No. 605,220, June 2. Class 18.
Medco Products Co., Tulsa, Okla. Electrical treatment machine for the stimulation of muscles. Serial No. 629,951, June 2. Class 44.
Medical Supply Company, Rockford, Ill. Adhesive bandages, antiseptic applicators, antiseptic swabs, etc. Serial No. 623,423, June 2. Class 44.
Melco Manufacturing Company, Chicago, Ill. Cigarette snuffers. Serial No. 636,023, June 2. Class 8.
Merck & Co. Inc., Rahway, N. J. Antibiotic and vitamin supplements. Serial No. 636,724, June 2. Class 18.
Meta, Keith, Grower and Shipper, Holtville, Calif. Fresh vegetables. Serial No. 638,429, June 2. Class 46.
Michaud, A., Co., Philadelphia, Pa. Fresh meat. Serial No. 631,431, June 2. Class 46.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Reels for magnetic sound-recording tape. Serial No. 638,967, June 2. Class 21.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Non-magnetic tape. Serial No. 638,968, June 2. Class 21.
Miracle Adhesives Corporation, New York, N. Y. Underlayment material in the nature of a plastic synthetic resin containing aggregate and filler materials. Serial No. 608,712, June 2. Class 12.
Mobile Paint Manufacturing Co. of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Paint thinners, paint oils, and paint diluents. Serial No. 631,879, June 2. Class 16.
Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Rubber latex base paint. Serial No. 626,742, June 2. Class 16.
Modell, Louis B., New York, N. Y. Combined ultra-violet and infra red health beat lamp. Serial No. 637,386, June 2. Class 44.
Moe Light, Inc., Fort Atkinson, Wis. Electric lighting fixtures and parts thereof. Serial No. 636,648, June 2. Class 21.
Mojud Hosiery Co. Inc., Long Island City, N. Y. Lady's stockings. Serial No. 639,140, June 2. Class 39.
Monark Silver King, Inc., Chicago, Ill. Bicycles. Serial No. 627,762, June 2. Class 19.
Moore, John Hudson, Co., Division of The Lambert Company: *See*—
Lambert Company, The.
Morris Manufacturing Company: *See*—
Silmovits, Morris L.
Moto-Mower Company, The, Detroit, Mich. Lawn mowers. Serial No. 626,325, June 2. Class 23.
Mutual Products Co., Minneapolis, Minn. Concentrated food compound. Serial No. 631,994, June 2. Class 46.
N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands. Machine tools. Serial No. 621,082, June 2. Class 23.
Namm-Loeser's Inc.: *See*—
Namm's, Inc.
Namm's, Inc., Brooklyn, N. Y., now by change of name, Namm-Loeser's Inc. Men's and boys' overcoats, coats, vests, etc. Serial No. 602,465, June 2. Class 39.
Napier, Elon I., Columbus, Ga. Hot and mild barbecue sauce. Serial No. 636,373, June 2. Class 46.
Nashua Corporation, Nashua, N. H. Adhesively coated paper tape. Serial No. 636,143, June 2. Class 5.
Neiman-Marcus Company, Dallas, Tex. Perfumes and toilet goods. Serial No. 634,157, June 2. Class 51.
Nethercutt, Jack B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Cosmetics. Serial No. 624,793, June 2. Class 51.
Nethercutt Laboratories: *See*—
Nethercutt, Jack B.
New York Rubber Corporation, New York, N. Y. Inflatable boats and inflatable floats. Serial No. 632,307, June 2. Class 19.
Nicholson File Company, Providence, R. I. Files and rasps. Serial No. 629,213, June 2. Class 23.
Nolde and Horst Company, The, Reading, Pa. Men's slippers. Serial No. 601,997, June 2. Class 39.
Oakford Company, The, Peoria, Ill. Canned fruits, canned vegetables, canned berries, etc. Serial No. 627,402, June 2. Class 46.
Oles, Floyd, Inc., Tacoma, Wash. Artificial fishing lures. Serial No. 635,195, June 2. Class 22.
Olin Industries, Inc., East Alton, Ill. Cuff links and buttons. Serial No. 625,999, June 2. Class 40.
Oregon Dairy Breeders Association, Corvallis, Oreg. Cattle semen. Serial No. 625,617, June 2. Class 1.
Parkway Furniture Manufacturing Company, Lawrence, Mass. Couches, loveseats, and beds. Serial No. 635,784, June 2. Class 32.
Patco Mfg. Co.: *See*—
Thompson, Paul J.
Peerless Plastics, Culver City, Calif. Interior decorative wall tile. Serial No. 638,550, June 2. Class 12.
Pelrce and Company, Los Angeles, Calif. Wool carpeting. Serial No. 637,885, June 2. Class 42.
Pell-Hari Farms, Inc., Woodstock, Ill. Grain seeds; field seeds. Serial No. 636,797, June 2. Class 1.
Photographic Importing & Distributing Corporation, Valley Stream, N. Y. Lenses and the carrying cases therefor. Serial No. 635,505, June 2. Class 26.

Photographic Importing & Distributing Corporation, Valley Stream, N. Y. Cameras and the carrying cases thereof; lenses and the carrying cases thereof. Serial No. 635,506, June 2. Class 26.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 625,034, June 2. Class 18.

Piedmont Shirt Company, Greenville, S. C. Men's and boys' shirts, undershirts, under-shorts, etc. Serial No. 637,287, June 2. Class 39.

Pillsbury Mills, Inc., assignee: *See*—
Ballard & Ballard Co.

Pillsbury Mills, Inc., Minneapolis, Minn.. Wheat flour. Serial No. 565,456, June 2. Class 46.

Plant Marvel Laboratories: *See*—
Slater, Joseph D.

Plas-Trix Company, The, Brooklyn, N. Y. Shifting block puzzles. Serial No. 602,628, June 2. Class 22.

Plastic Fabricators: *See*—
Igersheim, Oscar F.

Pocket Books, Inc., New York, N. Y. Books. Serial No. 638,437, June 2. Class 38.

Polaroid Corporation, Cambridge, Mass. Intermittent photographic instruction manuals and publications; and photographic prints and enlargements. Serial No. 631,569, June 2. Class 38.

Polk County Citrus Sub-Exchange, Bartow, Fla. Fresh citrus fruits. Serial No. 641,740, June 2. Class 46.

Pollock Paper Corporation, Dallas, Tex. Waxed paper, transparent paper, and wrapping paper. Serial No. 619,358, June 2. Class 37.

Portable Electric Tools, Inc., Chicago, Ill. Electrically operated apparatus and tools. Serial No. 636,862, June 2. Class 21.

Portis Style Industries, Inc., Chicago, Ill. Men's hats. Serial No. 632,326, June 2. Class 39.

Powers, John Robert, Products Co., Inc., Wilmington, Del., and New York, N. Y. Apparatus in the nature of a scope containing means for providing a color standard and a color sample, etc. Serial No. 635,566, June 2. Class 26.

Premier Plastics Co.: *See*—
Arliss, Charles.

Premier Popcorn Co., Watseka, Ill. Popcorn. Serial No. 633,508, June 2. Class 46.

Pride & Co.: *See*—
Salomon, Edward F.

Procter & Gamble Company, The, Cincinnati, Ohio. Home Permanent waving kit. Serial No. 634,163, June 2. Class 44.

Quyle, Martin E., Stockton, Calif. Artificial fish-lures. Serial No. 634,760, June 2. Class 22.

RPM Manufacturing Company, Lamar, Mo. Power lawn mowers. Serial No. 639,717, June 2. Class 23.

Randal, Downing B., doing business as Randal Nutritional Laboratories, Arcadia, Calif. Fortified food supplement. Serial No. 614,787, June 2. Class 18.

Randal Nutritional Laboratories: *See*—
Randal, Downing B.

Rarolite Chemical Co. Inc., Parlian, N. J. Printing inks. Serial No. 638,100, June 2. Class 11.

Ray Industries, Inc., Detroit, Mich., and Los Angeles, Calif. Charcoal briquets. Serial No. 633,735, June 2. Class 1.

Re-Ly-On Products Company, Pittsburgh, Pa. Inner spring mattresses. Serial No. 636,608, June 2. Class 32.

Renart Sportswear Corporation, New York, N. Y. Ladies' sweaters. Serial No. 633,509, June 2. Class 39.

Revlon Products Corporation, New York, N. Y. Moisture balm. Serial No. 624,971, June 2. Class 51.

Revolvator Company, North Bergen, N. J. Portable tiering machines and lift trucks. Serial No. 636,497, June 2. Class 23.

Richardson Company, The, Lockland, Cincinnati, Ohio. Containers for electric storage batteries. Serial No. 638,872, June 2. Class 21.

Riegel Textile Corporation, New York, N. Y. Diapers and work gloves. Serial No. 629,584, June 2. Class 39.

Riegel Textile Corporation, New York, N. Y. Pillow cases and piece goods. Serial No. 629,585, June 2. Class 42.

Rockford Screw Products Co., Rockford, Ill. Socket head screws, drive screws, cap screws, etc. Serial No. 638,977, June 2. Class 13.

Rodgers, Ralph, White Plains, N. Y. Brief bags and cases. Serial No. 611,742, June 2. Class 3.

Rosati, Luigi, doing business as Bleach-Ox Chemical Co., Bethleham, Pa. Company in the nature of a disinfectant, bleach, cleanser, and deodorant. Serial No. 580,857, June 2. Class 52.

Rosedale Knitting Company, Reading, Pa. Ladies' crepe hosiery. Serial No. 602,570, June 2. Class 39.

Rosenberg, Abe A., New York, N. Y. Ear muffs. Serial No. 638,315, June 2. Class 39.

Roto Bag Machine Corporation, New York, N. Y. Bag making machinery and perforating machines and parts therefor. Serial No. 634,991, June 2. Class 23.

Royal Robes, Inc., New York, N. Y. Women's and misses' robes. Serial No. 626,641, June 2. Class 39.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos siding paint. Serial No. 638,375, June 2. Class 16.

Rubin-Meltzer Company: *See*—
Best Wear Products, Inc.

Ruckelshaus, John G., Labs. Inc., Madison, Wis. Metal film precision resistors. Serial No. 635,384, June 2. Class 21.

Rudd-Melikian, Inc., Philadelphia, Pa. Coffee concentrates. Serial No. 577,497, June 2. Class 46.

Russell Reinforced Plastics Corporation, Lindenhurst, N. Y. Decorative panels. Serial No. 634,350, June 2. Class 12.

S and B Millinery Company, Toledo, Ohio. Women's millinery. Serial No. 551,315, June 2. Class 39.

S. F. Appliances, Limited, Ridgefield, N. J. Portable lanterns and lamps, cooking and heating stoves, water heaters, etc. Serial No. 504,967, June 2. Class 34.

Salter Canning Company, North Rose, N. Y. Canned fruits and vegetables. Serial No. 638,162, June 2. Class 46.

Sanders, G. G., and N. Goodwin, joint trustees of N. Goodwin, and G. G. and G. B. Sanders, San Francisco, Calif. Centrifugal classifiers and separators. Serial No. 620,900, June 2. Class 23.

Sanders, Grace B.: *See*—
Sanders, G. G.

Scalamandré Silks, Inc., Long Island City, N. Y. Textile fabrics. Serial No. 639,201, June 2. Class 42.

Scenic Citrus Cooperative, Frostproof, Fla. Fresh citrus fruits, canned citrus fruits, etc. Serial No. 607,870, June 2. Class 46.

Scovill Manufacturing Company, Waterbury, Conn. Safety pins, straight pins, veil pins, etc. Serial No. 629,520–1. June 2. Class 40.

Scovill Manufacturing Company, Waterbury, Conn. Safety pins, straight pins, hat pins, etc. Serial No. 629,522, June 2. Class 40.

Selector Company: *See*—
Heacock, Lee F., Jr.

Selector Production Corporation, assignee: *See*—
Heacock, Lee F., Jr.

Shuron Optical Company, Inc., Geneva, N. Y. Bridges for ophthalmic mountings. Serial Nos. 638,910–22, June 2. Class 26.

Singer Manufacturing Company, The, Elizabeth, N. J. Family and commercial sewing machines; darning, embroidery, article fastening machines, etc. Serial No. 628,559, June 2. Class 23.

Slater, Joseph D., doing business as Plant Marvel Laboratories, Chicago, Ill. Fertilizers. Serial Nos. 637,337–8, June 2. Class 10.

Slater, Joseph D., doing business as Plant Marvel Laboratories, Chicago, Ill. Plant foods. Serial No. 638,740, June 2. Class 10.

Slimovitz, Morris L., doing business as Morris Manufacturing Company, Newbern, Tenn. Work gloves. Serial No. 633,884, June 2. Class 39.

Slomons Laboratories, Inc., Long Island City, N. Y. Non-inflammable cleaning fluid. Serial No. 633,638, June 2. Class 52.

Smith-Douglass Company, Inc., trading as Growers Supply Co., Norfolk, Va. Fresh produce. Serial No. 638,122, June 2. Class 46.

Smith, Roy L., doing business as Smith's Furniture Company, Corinth, Miss. Mattresses. Serial No. 635,934, June 2. Class 32.

Smith, Samuel M., doing business as Galesburg Vault Company, Galesburg, Ill. Burial vaults. Serial No. 635,151, June 2. Class 2.

Smith, Willard H., doing business as Deep Run Packing Company, Dublin, Pa. Dog and cat food. Serial No. 642,173, June 2. Class 46.

Smith's Furniture Company: *See*—
Smith, Roy L.

Snellenburgs: *See*—
Bankers Securities Corporation.

Solomon, Edward F., trading under the name Pride & Co., Philadelphia, Pa. Dog food. Serial No. 543,664, June 2. Class 46.

Spectrum Fabrics Corporation, New York, N. Y. Piece goods. Serial No. 637,728, June 2. Class 42.

Spencer Chemical Company, Kansas City, Mo. Ammonium nitrate fertilizer. Serial No. 628,584, June 2. Class 10.

Spencer Chemical Company, Kansas City, Mo. Ammonium nitrate fertilizers. Serial No. 629,221, June 2. Class 10.

Spinnerin Yarn Co., Inc., South Hackensack, N. J. Wool yarns. Serial No. 633,176, June 2. Class 43.

Stanley Home Products, Inc., Westfield, Mass. Liquid scented sanitizing cleaner. Serial No. 629,971, June 2. Class 52.

Stanolind Oil and Gas Company, Tulsa, Okla. Oil-well services. Serial No. 611,815, June 2. Class 100.

Stationers' Guild Corporation of America, Philadelphia, Pa. Filing trays, stands for filing trays and filing cabinets. Serial No. 623,687, June 2. Class 32.

Strike Master, Inc., Minneapolis, Minn. Fishing leaders. Serial No. 630,970, June 2. Class 22.

Strong & Fisher Limited, Rushden, England. Suede leather. Serial No. 631,694, June 2. Class 1.

Sundure Paint Corporation, Syracuse, N. Y. Rubber base paints. Serial No. 599,277, June 2. Class 16.

Thompson, Paul J., doing business as Patco Mfg. Co., Philadelphia, Pa. Hot air conduits and registers. Serial No. 637,094, June 2. Class 34.

Tiki Originals, New York, N. Y. Women's and girls' hats. Serial No. 633,890, June 2. Class 39.

Tom Boy, Inc., St. Louis, Mo. Extract of vanilla, canned sliced apples, canned apple sauce, etc. Serial No. 625,832, June 2. Class 46.

Top Mode Manufacturing Co., Dauphin, Pa. Misses' and women's dresses. Serial No. 637,733, June 2. Class 39.

Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Cotton braided rugs. Serial No. 639,858, June 2. Class 42.

Tribune Company, sometimes identified merely as The Chicago Tribune, Chicago, Ill. Newspaper column. Serial No. 637,735, June 2. Class 38.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Union Starch & Refining Company, Columbus, Ind. Marshmallow and marshmallow creams, corn syrup, and table syrup. Serial No. 626,484, June 2. Class 46.

United Biscuit Company of America, Chicago, Ill. Cookies and crackers. Serial Nos. 633,180–3, June 2. Class 46.

United Brush Manufactories, New York, N. Y. Artists' paint brushes. Serial No. 643,007, June 2. Class 29.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 637,507, June 2. Class 42.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics. Serial No. 637,508, June 2. Class 106.

U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Reclaimed rubber. Serial No. 636,753, June 2. Class 1.

U. S. Sanitary Specialties Corporation, Chicago, Ill. Derivative of a dehydroxy alcohol. Serial No. 573,905, June 2. Class 6.

Vitapix Corporation, Dover, Del., and Hollywood, Calif. Motion picture films. Serial No. 626,837, June 2. Class 26.

Vita-Var Corporation, Newark, N. J. Ready-mixed paints, enamels, and varnishes. Serial No. 620,701, June 2. Class 16.

Wade, Wenger & Associates, Inc., Chicago, Ill. General cleaning services. Serial No. 628,799, June 2. Class 103.

Waller, Irvin, doing business as Waller Machine Products Co., Chicago, Ill. Diamond abrasive compound. Serial No. 634,718, June 2. Class 4.

Waller Machine Products Co.: *See*—
Waller, Irvin.

Warner-Hudnut, Inc., New York, N. Y. Razors. Serial No. 635,667, June 2. Class 23.

Washington Co-Operative Farmers Association, Seattle, Wash. Fresh shell eggs. Serial No. 619,487, June 2. Class 46.

Weston Dodson & Company, Incorporated, Bethlehem, Pa. Coal. Serial No. 636,667, June 2. Class 1.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Abrasive cutting powder and abrasive cleaning powder. Serial No. 608,728, June 2. Class 4.

Wild-Q Company, The, Kansas City, Mo. Playing cards. Serial No. 641,651, June 2. Class 22.

Wildroot Company Inc., Buffalo, N. Y. Shampoo. Serial No. 640,316, June 2. Class 52.

Winston, John C., Company, The, Philadelphia, Pa. Books. Serial No. 635,731, June 2. Class 38.

Wisconsin Tissue Mills, Menasha, Wis. Toilet tissue, paper napkins, paper tray covers and paper table cloths. Serial No. 635,451, June 2. Class 37.

Wix Manufacturing Co.: *See*—
Wixson, Gertrude E.

Wixson, Gertrude E., doing business as Wix Manufacturing Co., Kansas City, Mo. Combined shower and shampoo caps. Serial No. 637,970, June 2. Class 39.

Woburn Chemical Corp. (N. J.), Harrison, N. J. Ingredient for paints, varnishes, enamels or coating composition. Serial No. 606,354, June 2. Class 16.

Wollman, Albert E., doing business as Associated Cheese Distributors, Los Angeles, Calif. Packaged cheese. Serial No. 622,287, June 2. Class 46.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Bone meal and dehydrated poultry and cow manure for use as fertilizers. Serial No. 637,221, June 2. Class 10.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Bone meal and dehydrated poultry and cow manure for use as fertilizers. Serial No. 637,224, June 2. Class 10.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Bone meal and dehydrated poultry and cow manure for use as fertilizers. Serial No. 637,558, June 2. Class 10.

Wright and Company, Incorporated, Worcester, Mass. Card index file cabinet. Serial No. 635,210, June 2. Class 32.

York Cone Company, York, Pa. Ice cream cones. Serial No. 630,177, June 2. Class 46.

Ziff-Davis Publishing Company, New York, N. Y. Section of a magazine. Serial No. 638,562, June 2. Class 38.

Zion Industries, Inc., Zion, Ill. Candy. Serial No. 642,005, June 2. Class 46.

Zylite Products Co., Inc., New York, N. Y. Eyeglass frames. Serial No. 629,139, June 2. Class 26.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Selenium sulfide preparations. 575,165, June 2; Serial No. 625,382, published Feb. 17, 1953. Class 18.

Abbott Laboratories, North Chicago, Ill. Sublingual medicaments. 575,220, June 2; Serial No. 632,060, published Feb. 24, 1953. Class 18.

Academie Scientifique de Beauté, Paris and Colombes (Seine), France. Perfume, eau de cologne, face creams, etc. 575,088, June 2; Serial No. 601,294, published Feb. 17, 1953. Class 51.

Acushnet Process Company, Acushnet and New Bedford, Mass. Golf balls. 575,076, June 2; Serial No. 591,901, published Mar. 10, 1953. Class 22.

Adex Manufacturing Company: *See*—
Kriel, Walter E.

Adolfo Quirós E Hijos, Vigo, Spain. Canned fish and canned shell-fish. 575,325, June 2; Serial No. 620,129. Class 46.

Air Devices, Inc., New York, N. Y. Ventilation-control device. 575,185, June 2; Serial No. 627,916, published Mar. 10, 1953. Class 34.

Alexander Marketing Company, San Benito, Tex. Fresh vegetables. 303,423, renewed May 23, 1953. O. G. June 2. Class 46.

Allan, A., & Son, by A. Pforr, doing business as A. Allan & Son, Harrison, N. J. Non-ferrous alloys. 126,507, Sept. 16, 1919. Republished June 2. Class 14.

Allan, A., & Son, by A. Pforr, doing business as A. Allan & Son, Harrison, N. J. Non-ferrous alloys. 126,916, Oct. 14, 1919. Republished June 2. Class 14.

Allied Trades of the Baking Industry, New York, N. Y. Stimulating and maintaining interest in the baking industry, etc. 575,283, June 2; Serial No. 621,537, published Mar. 10, 1953. Class 100.

American Coolair Corporation, Jacksonville, Fla. Attic and exhaust fans. 575,065, June 2; Serial No. 570,402, published Mar. 3, 1953. Class 34.

American Crayon Company, The, Sandusky, Ohio. Clay base plastic modeling material. 575,073, June 2; Serial No. 587,783, published Mar. 3, 1953. Class 1.

American Cystoscope Makers, Inc., New York, N. Y. Pharyngoscopes and components thereof. 575,221, June 2; Serial No. 632,342, published Feb. 24, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 575,222, June 2; Serial No. 632,344, published Feb. 24, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 575,353, June 2; Serial No. 637,686. Class 44.

American Field Seed Co.: *See*—
Berry Seed Company.

American Fluresit Company, Inc., Cincinnati, Ohio. Powdered hydraulic cements for being mixed with water to form cement base paints, etc. 575,097, June 2; Serial No. 604,175, published Feb. 10, 1953. Class 16.

American Gas Machine Company, Albert Lea, Minn. Gas burning cargo heaters. 575,111, June 2; Serial No. 611,122, published Mar. 10, 1953. Class 34.

American Import Company, The, San Francisco, Calif. Fishing baskets, fishing hooks, fishing lines, etc. 575,355, June 2; Serial No. 641,486. Class 22.

American Machine and Foundry Company, New York, N. Y. Baking ovens, and parts pertaining to such apparatus. 575,066, June 2; Serial No. 574,805, published Feb. 3, 1953. Class 34.

American Optical Company, Southbridge, Mass. Lenses. 575,197, June 2; Serial No. 629,079, published Feb. 3, 1953. Class 26.

American Optical Company, Southbridge, Mass. Ophthalmic frames. 575,199, June 2; Serial No. 629,142, published Feb. 3, 1953. Class 26.

American Sales Book Company Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y., by Moore Business Forms, Inc., Niagara Falls, N. Y. Manifold books. 90,401, Feb. 25, 1913. Republished June 2. Class 37.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, to United States Steel Corporation, Pittsburgh, Pa. Barb wire. 300,979, renewed Feb. 14, 1953. O. G. June 2. Class 13.

American Steel Dredge Company Inc., Fort Wayne, Ind. Heavy-duty ground growth disintegrating machines. 575,090, June 2; Serial No. 601,656, published Jan. 20, 1953. Class 23.

Andrews, O. B., Company, Chattanooga, Tenn. Folding cartons. 575,315, June 2; Serial No. 613,486. Class 2.

Appleton Corporation, The, Appleton, Wis. Cheese. 575,306, June 2; Serial No. 609,624. Class 46.

Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Liquid composition for addition to foundry core, molding and facing sand mixtures, etc. 575,115, June 2; Serial No. 613,433, published Feb. 17, 1953. Class 1.

Ardalt Inc., New York, N. Y. Chinaware. 575,160, June 2: Serial No. 624,005, published Mar. 10, 1953. Class 30.

Argos Products Company, Inc., Genoa, Ill. Plastic fabric-covered cabinet-type boxes. 575,310, June 2; Serial No. 612,578. Class 2.

Arkwright Merchandising Corporation, New York, N. Y. Coats, suits, pants, etc. 303,765, renewed June 6, 1953. O. G. June 2. Class 39.

Arundel Corporation, The, Baltimore, Md. Dredging and construction and repair services. 575,282, June 2; Serial No. 620,994, published Mar. 10, 1953. Class 103.

Aacher, B. F., & Company, Inc., Kansas City, Mo. Medicinal preparation. 575,265, June 2; Serial No. 639,148, published Feb. 24, 1953. Class 18.

Ashcraft, C. S., Mfg. Co., Long Island City, N. Y. Electric projection lamps. 575,303, June 2; Serial No. 595,648. Class 26.

Associated Merchandising Corporation, The, New York, N. Y. Electric blankets. 575,225, June 2; Serial No. 632,712, published Mar. 10, 1953. Class 21.

Atkins & Durbrow, Inc., New York, N. Y. Fertilizers. 575,319, June 2; Serial No. 618,280. Class 10.

Atlantic Plastics Company, Inc., Boston, Mass. Plastic covered boxes. 575,304, June 2; Serial No. 599,413. Class 2.

Attorney General of the United States, vested in the: *See*—
Nordmark-Werke G. m. b. H.

Baker Castor Oil Company, The, Jersey City, N. J. Castor oil, etc. 572,577, Mar. 31, 1953. Corrected. O. G. June 2. Class 6.

Barker Poultry Equipment Co., Ottumwa, Iowa. Mobile feed tanks and mobile feed mixing tanks. 575,131, June 2; Serial No. 618,528, published Mar. 10, 1953. Class 19.

Bausch & Lomb Optical Company, Rochester, N. Y. Spectacles and spectacle lenses. 575,207, June 2; Serial No. 631,091, published Jan. 27, 1953. Class 26.

Beacon Corporation, Chicago, Ill. Indoor television antennas. 575,187, June 2; Serial No. 627,995, published Feb. 24, 1953. Class 21.

Beautilities, Inc., Los Angeles, Calif. Dryer-chair combination for use as beauty salon equipment. 575,113, June 2; Serial No. 612,724, published Feb. 24, 1953. Class 44.

Becton Dickinson and Company, Rutherford, N. J. Specimen tube combination. 575,223, June 2; Serial No. 632,354, published Feb. 24, 1953. Class 44.

Bee Hat & Cap Co., to Bee Hat Company, St. Louis, Mo. Men's and boys' hats and caps. 304,558, renewed July 11, 1953. O. G. June 2. Class 39.

Bee Hat Company: *See*—
Bee Hat & Cap Co.

Berger, L. L., Inc., Buffalo, N. Y. Men's necktles. 575,305, June 2; Serial No. 606,999. Class 39.

Berger, Ray S., doing business as Berger Sales Company, Denver, Colo. Dried beans. 575,075, June 2; Serial No. 590,485, published Mar. 10, 1953. Class 46.

Berger Sales Company: *See*—
Berger, Ray S.

Berlant Associates, Los Angeles, Calif. Magnetic tape sound recording machines. 575,123, June 2; Serial No. 616,541, published Feb. 24, 1953. Class 21.

Berry Seed Company, and also doing business under the following names, Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa. Farm, vegetable, and flower seeds. 575,112, June 2; Serial No. 611,334, published Mar. 10, 1953. Class 1.

Beta Theta Pi, Oxford, Ohio. Organizing chapters in a National collegiate fraternity maintaining membership therein, etc. 575,292, June 2; Serial No. 622,425, published Mar. 3, 1953. Class 100.

Blue Plate Foods, Inc., New Orleans, La. Coffee and a blend of coffee and chicory. 575,085, June 2; Serial No. 600,702, published Mar. 10, 1953. Class 46.

Bourjois, Inc., New York, N. Y. Perfume, eau de cologne, toilet water, etc. 575,238, June 2; Serial No. 633,647, published Feb. 10, 1953. Class 51.

Breakfast Club Coffee, Inc.: *See*—
Golden Bear Coffee Co., Ltd.

Brembeck, Howard S., doing business as Chore Time Equipment Company, Alliance, Ohio. Brooders, feeders, and waterers. 575,167, June 2; Serial No. 625,518, published Mar. 3, 1953. Class 50.

Brink, John G., Evanston, Ill. Educational picture puzzles. 575,069, June 2; Serial No. 583,859, published Mar. 10, 1953. Class 22.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin derivative. 575,169–70, June 2; Serial Nos. 626,304–5, published Feb. 17, 1953. Class 18.

Broadway Rubber Corporation, Louisville, Ky. Linings of hard and soft, natural and synthetic rubber and other plastic materials. 575,191, June 2; Serial No. 628,391, published Mar. 10, 1953. Class 12.

Brocklehurst-Whiston Amalgamated Limited, London, England. Necktles, handkerchiefs, scarves, etc. 575,326, June 2; Serial No. 621,654. Class 39.

Brown, William, Company, by Granite Hosiery Mills, Inc., Philadelphia, Pa. Ladies', gentlemen's and children's hosiery. 89,910, Jan. 21, 1913; republished June 2, 1953. Class 39.

Brunsaen, Geo., Co., by George Brunsaen Company, Incorporated, New York, N. Y. Uniform hats, caps, and helmets. 90,963, Apr. 8, 1913; republished June 2, 1953. Class 39.

Brunssen, George, Company, Incorporated: *See*—
Brunsaen, Geo., Co.

Buell Engineering Company, Inc., New York, N. Y. Dust and particle separators and samplers. 575,196, June 2; Serial No. 628,669, published Feb. 10, 1953. Class 23.

Burchard, C. D., Inc., New York, N. Y., to Ortho Pharmaceutical Corporation, Raritan, N. J. Antiseptics. 301,031, renewed Feb. 14, 1953. O. G. June 2. Class 18.

Burndy Engineering Company, Inc., New York, N. Y. Electrical connectors. 575,152, June 2; Serial No. 622,924, published Feb. 24, 1953. Class 21.

Buscarlet Glove Company, Inc., New York, N. Y. Detergent preparation. 575,179, June 2; Serial No. 627,672, published Mar. 10, 1953. Class 52.

Cabot, Samuel, Incorporated, Boston, Mass. Stains for exterior uses. 575,340, June 2; Serial No. 626,654. Class 16.

Calo Dog Food Company, Inc., Oakland, Calif. Canned dog and cat food. 575,255, June 2; Serial No. 636,709, published Mar. 10, 1953. Class 46.

Canadian Radium & Uranium Corporation, New York, N. Y. Fluorescent lacquer. 575,349, June 2; Serial No. 633,255. Class 16.

Carew Manufacturing Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Paper and mailing-envelopes. 145,058, July 26, 1921; republished June 2, 1953. Class 37.

Carew Manufacturing Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Writing and printing paper and mailing envelopes. 184,144, May 20, 1924; republished June 2, 1953. Class 37.

Carew Manufacturing Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Writing and printing paper and mailing envelopes. 191,521, Nov. 11, 1924; republished June 2, 1953. Class 37.

Carew Manufacturing Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Ledger paper. 215,325, July 13, 1926; republished June 2, 1953. Class 37.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Asphalt impregnated asbestos felt. 575,060, June 2; Serial No. 556,281, published Oct. 14, 1952. Class 12.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Asbestos felted paper and asbestos sheathing paper. 575,061, June 2; Serial No. 556,772, published Mar. 10, 1953. Class 12.

Chambers & Robinson, Seguin, Tex. Tamales. 575,071, June 2; Serial No. 587,014, published Mar. 10, 1953. Class 46.

Charms, Incorporated, Brillion, Wis. Toy animals and insects, toy smokers' articles, toy jewelry, etc. 575,194, June 2; Serial No. 628,467, published Mar. 10, 1953. Class 22.

Chicago Eye Shield Company, Chicago, Ill. Hardened glass protective lenses. 575,130, June 2; Serial No. 618,388, published Feb. 3, 1953. Class 26.

Chlorophyll Products Co., Inc., Fort Wayne, Ind. Candy mints. 575,244, June 2; Serial No. 633,918, published Mar. 10, 1953. Class 46.

Chore Time Equipment Company: *See*—
Brembeck, Howard S.

Chun-Wong, Inc., Los Angeles, Calif. Frozen foodstuffs. 575,302, June 2; Serial No. 594,887. Class 46.

Cleaver-Brooks Company, Milwaukee, Wis. Steam boilers, water heaters, stills, etc. 575,242, June 2; Serial No. 633,695, published Mar. 3, 1953. Class 34.

Cold Spring Bleachery, Yardley, Pa. Bleaching, mercerizing, dyeing, etc., of textile fabrics. 575,284, June 2; Serial No. 625,001, published Mar. 10, 1953. Class 106.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Granulated detergent. 575,138, June 2; Serial No. 619,566, published Mar. 10, 1953. Class 52.

Colin Pharmacal Co., Inc., Long Island City, N. Y. Medicinal preparation. 575,239, June 2; Serial No. 633,661, published Feb. 17, 1953. Class 18.

Colin Pharmacal Co., Inc., Jersey City, N. J. Medicinal preparation. 575,240, June 2; Serial No. 633,663, published Feb. 17, 1953. Class 18.

Collins Company, The, Collinsville, Conn. Axes, hatchets, adzes, etc. 93,076; re-renewed Aug. 19, 1953. O. G. June 2. Class 23.

Colorado State Medical Society, The, Denver, Colo. Health information through the medium of a series of radio programs. 575,286, June 2; Serial No. 625,097, published Mar. 10, 1953. Class 107.

Columbia Mills, Inc., The, Syracuse, N. Y. Book binding fabric. 575,321, June 2; Serial No. 618,533. Class 42.

Commercial Solvents Corporation, New York, N. Y. Ammoniated hemicellulose extract for use in feeds. 575,256, June 2; Serial No. 636,771, published Mar. 10, 1953. Class 46.

Connecticut General Life Insurance Company, Hartford, Conn. Underwriting personal insurance. 575,277, June 2; Serial No. 613,869, published Mar. 3, 1953. Class 102.

Converto Mfg. Co., Inc., Cambridge City, Ind. Hoists for lifting and lowering bodies on trucks; and dumping hoists for farm equipment. 575,204, June 2; Serial No. 630,583, published Feb. 10, 1953. Class 23.

Crulan, Inc., Chicago, Ill. Hair and scalp conditioning preparation. 575,129, June 2; Serial No. 617,980, published Mar. 3, 1953. Class 51.

Curtis Publishing Company, by The Curtis Publishing Company, Philadelphia, Pa. Agricultural journal. 84,728, Jan. 2, 1912; republished June 2, 1953. Class 38.

Curtis Publishing Company, The: *See*—
Curtis Publishing Company.

Cyc-Arc Limited, London, England. Electric arc-welding apparatus and parts thereof and accessories therefor. 575,133, June 2; Serial No. 619,156, published Mar. 3, 1953. Class 21.

Dalin, David, New York, N. Y. Heat exchangers. 575,174, June 2; Serial No. 626,783, published Feb. 24, 1953. Class 34.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. 575,166, June 2; Serial No. 625,405, published Jan. 27, 1953. Class 26.

Daly, Merritt & Sullivan, Inc., Falls Church, Va. Air and gas drying and conditioning equipment. 575,139, June 2; Serial No. 620,144, published Mar. 10, 1953. Class 34.

Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Prepared fish in sausage form. 575,296, June 2; Serial No. 585,440. Class 46.

De Forest-Sanabria Corporation, The, Chicago, Ill. Instructing students through the medium of home study courses in radio and television theory and techniques. 575,270, June 2; Serial No. 583,739, published Mar. 10, 1953. Class 107.

Delaware Punch Company of America, The, San Antonio, Tex. Non-alcoholic maltless beverages. 568,722, Jan. 6; corrected. O. G. June 2. Class 45.

Delta Seed Corporation, West Memphis, Ark. Field seeds. 575,214, June 2; Serial No. 631,548, published Mar. 3, 1953. Class 1.

Dent's English Bacon Company Limited, Winnipeg, Manitoba, Canada. Fresh, salt, and pickled pork, ham, bacon and sausages. 575,324, June 2; Serial No. 619,699. Class 46.

Diamond Alkali Company, Cleveland, Ohio. Powdered water softening detergent and cleaner. 575,153, June 2; Serial No. 622,928, published Mar. 10, 1953. Class 52. Diamond Match Company, The, New York, N. Y. Drink stirrers. 575,331, June 2; Serial No. 622,640. Class 23.

Diesel Oil Burner Corp. of N. Y., Jamaica, N. Y. Oil burners and water heating apparatus. 575,227, June 2; Serial No. 632,830, published Feb. 3, 1953. Class 34.

Distillers Agency Limited, The, Edinburgh, Scotland. Scotch whisky. 407,434, June 6, 1944. Amended. O. G. June 2. Class 49.

Dorville Corporation, The, Philadelphia, Pa. School and college year books. 575,307, June 2; Serial No. 610,602. Class 38.

Douglas Inc., Palm Beach, Fla. Natural sea shells to be used as buttons and decorative trimmings. 575,312, June 2; Serial No. 612,795. Class 40.

Drake Publishing Company, Chicago, Ill. Periodical. 575,331, June 2; Serial No. 635,125. Class 38.

Drake & Townsend Incorporated, New York, N. Y. Engineering service. 575,281, June 2; Serial No. 619,193, published Mar. 10, 1953. Class 100.

Druding Brothers Company, Philadelphia, Pa. Chamois skins. 575,188, June 2; Serial No. 628,147, published Feb. 24, 1953. Class 1.

Dunn, W. E., Manufacturing Company, The, Holland, Mich. Concrete joists. 575,311, June 2; Serial No. 612,594. Class 12.

Eastern Research Laboratories, Inc., Baltimore, Md. Hygienic and astringent powder. 575,203, June 2; Serial No. 630,263, published Feb. 17, 1953. Class 18.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic cameras, photographic projectors, photographic printers, etc. 575,121, June 2; Serial No. 616,089, published Feb. 3, 1953. Class 26.

Electro-Acid Corporation, Houston, Tex. Electric storage batteries and component parts and electrolytes therefor. 575,235, June 2; Serial No. 633,611, published Mar. 3, 1953. Class 21.

Elliott, George H., & Company, New York, N. Y. Management engineering. 575,290, June 2; Serial No. 632,421, published Mar. 10, 1953. Class 101.

El Ranchero Canning Company: *See*—
Spoto, Sam P.

Emsco Derrick & Equipment Company, Los Angeles, Calif. Fabricated steel structures. 575,122, June 2; Serial No. 616,475, published Feb. 10, 1953. Class 12.

End-O-Rust Inc., assignee: *See*—
Hine & Co., Inc.

Era Development Corp.: *See*—
Thermoflector Corporation.

Erie City Iron Works, Erie, Pa. Stokers. 575,228, June 2; Serial No. 632,981, published Feb. 3, 1953. Class 34.

Etc., Inc., Niles, Mich., assignee of E. P. Larsh, doing business as Newport Ships, Not Inc. Magnetic pressure switches. 575,117, June 2; Serial No. 614,088, published Feb. 24, 1953. Class 21.

Eustice, Erskine P., doing business as "Eustice Farms," Beardstown, Ill. Baby chicks. 575,082. June 2; Serial No. 599,230, published Feb. 17, 1953. Class 1.

"Eustice Farms": *See*—
Eustice, Erskine P.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Alloy for metal joining purposes. 575,192, June 2; Serial No. 628,401, published Mar. 10, 1953. Class 14.

Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Type composing machines. 575,109, June 2; Serial No. 610,207, published Feb. 3, 1953. Class 23.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Chemotherapeutic agent. 575,264, June 2; Serial No. 638,052, published Feb. 24, 1953. Class 18.

Farm Tools, Inc., Mansfield, Ohio. Plain bearings. 575,163, June 2; Serial No. 624,451, published Feb. 10, 1953. Class 23.

Farmer Feeder Company, Inc., Cambridge City, Ind. Broadcast seeders. 575,297, June 2; Serial No. 587,018. Class 23.

Fawick Airflex Company, Inc., The, Cleveland, Ohio, assignor to Federal Fawick Corporation. Industrial and marine clutches, brakes for industrial machines, etc. 575,149, June 2; Serial No. 621,605, published Feb. 10, 1953. Class 23.

Federal Fawick Corporation, assignee: *See*—
Fawick Airflex Company, Inc., The.

Ferber, Murray, doing business under the name and style of Marlboro Automotive Co., New York, N. Y. Automotive spare parts. 575,096, June 2; Serial No. 604,081, published Jan. 20, 1953. Class 23.

Ferroxcube Corporation of America, New York, N. Y. Permanent ferrite magnets. 575,189, June 2; Serial No. 628,197, published Mar. 3, 1953. Class 21.

Finnell System, Inc., Elkhart, Ind. Electrically operated combined floor cleaning, scrubbing and polishing machines. 575,132, June 2; Serial No. 619,011, published Mar. 10, 1953. Class 21.

Finney Company, The, Cleveland, Ohio. Television, broadcasting and receiving antennas and parts therefor. 575,345. June 2; Serial No. 629,482. Class 21.

Fisher, Thorsen & Company, Inc., Portland, Oreg. Pigments for coloring paints. 575,342, June 2; Serial No. 626,717. Class 16.

Flintkote Company, The, New York, N. Y. Insulating siding. 575,173, June 2; Serial No. 626,503, published Feb. 10, 1953. Class 12.

Fougera, E., and Company, Inc., New York, N. Y. Depot estrogen solution. 575,243, June 2; Serial No. 633,762, published Feb. 17, 1953. Class 18.

"4711" Limited: *See*—
Watkins, R. R., Company, The.

Frontel Net & Twine Corp., The, East Hampton, Conn. Fish netting. 575,151, June 2; Serial No. 622,255, published Mar. 10, 1953. Class 22.

Futurity Thread Company, Newton, Mass. Thread. 575,328, June 2; Serial No. 622,330. Class 43.

Gaffney Brothers Company, Charlotte, N. C. Wax polish. 575,171, June 2; Serial No. 626,454, published Mar. 10, 1953. Class 4.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 575,172, June 2; Serial No. 626,455, published Feb. 17, 1953. Class 28.

General American Transportation Corporation, Chicago, Ill. Leasing of railroad freight and express cars. 575,273, June 2; Serial No. 592,809, published Mar. 3, 1953. Class 105.

General Time Corporation: *See*—
Thomas, Seth, Clock Company.
Western Clock Co.

Golden Bear Coffee Co., Ltd., to Breakfast Club Coffee, Inc., Los Angeles, Calif. Coffee and tea. 305,393, renewed Aug. 15, 1953. O. G. June 2. Class 46.

Golden, C. W., doing business as Golden Lithograph Company, San Francisco, Calif. Partially-printed advertising blanks. 575,299, June 2; Serial No. 589,970. Class 37.

Golden Lithograph Company: *See*—
Golden, C. W.

Gould, Barbara, Inc., New York, N. Y. Toilet creams, masque preparations, toilet powders, etc. 575,234, June 2; Serial No. 633,602, published Feb. 10, 1953. Class 51.

Grand Chapter of Phi Sigma Kappa, The, Chicago, Ill. Organizing of chapters in a national collegiate fraternity and maintaining membership therein. 575,291, June 2; Serial No. 599,762, published Mar. 10, 1953. Class 100.

Granite Hosiery Mills, Inc.: *See*—
Brown, William, Company.

Grimm Brooder Manufacturing Company: *See*—
Grimm, George H.

Grimm, George H., trading as Grimm Brooder Manufacturing Company, Toms River, N. J. Tobacco dryers. 575,159, June 2; Serial No. 623,836, published Mar. 10, 1953. Class 34.

Griswold Seed Co.: *See*—
Berry Seed Company.

Gross, Lewis A., doing business as The Mulcine Company (also known as The Mulcine Co.), Philadelphia, Pa., assignor to Mead Johnson & Company, Evansville, Ind. Ointment and vitamins. 575,116, June 2; Serial No. 613,440, published Sept. 23, 1953. Class 18.

Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. 575,251, June 2; Serial No. 634,784, published Mar. 3, 1953. Class 27.

Gude Brothers, Kieffer Company, Jersey City, N. J., assignor, by mesne assignments, to June Dairy Products Co., Inc. Butter. 575,077, June 2; Serial No. 593,725, published Mar. 10, 1953. Class 46.

Gulf States Paper Corporation, Tuscaloosa, Ala. Paper bags. 575,332, June 2; Serial No. 624,685. Class 2.

Hampshire Paper Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Printing and writing paper. 165,999, Mar. 27, 1923. Republished June 2. Class 37.

Hardwick Woolen Mills, Inc., Cleveland, Tenn. Men's, students', cadets', and boys' suits, topcoats, sport coats, and slacks. 575,334, June 2; Serial No. 639,274. Class 39.

Harlan-Wallins Coal Corporation: *See*—
Southern Coal Company, Inc.

Hart Ceramic Supply: *See*—
Hart, Stewart J.

Hart & Crouse Corporation, Oneida, N. Y. Central heating furnaces. 575,180, June 2; Serial No. 627,683, published Mar. 3, 1953. Class 34.

Hart, Stewart J., doing business under the name and style of Hart Ceramic Supply, Inglewood, Calif. Clear and colored glazes, crackel glaze, and under glaze enamels. 575,114, June 2; Serial No. 613,370, published Feb. 10, 1953. Class 12.

Havatan Company, The: *See*—
Nye, George L.

Hawley Products, Chicago, Ill. An apparatus removably secured to the handle of a golf cart. 575,141, June 2; Serial No. 620,343, published Mar. 10, 1953. Class 22.

Health Guardian Corporation, Chicago, Ill., and Monroe, Wis. Electrical signaling device. 575,206, June 2; Serial No. 631,056, published Feb. 24, 1953. Class 21.

Heath Ceramics, Sausalito, Calif. Stoneware. 575,080, June 2; Serial No. 598,852, published Feb. 24, 1953. Class 30.

Heathcoat, John, & Co., Inc., assignee: *See*—
Heathcoat, John, and Company Limited.

Heathcoat, John, and Company Limited, Tiverton, England, assignor to John Heathcoat & Co., Inc., New York, N. Y. Nets and veilings. 575,308, June 2; Serial No. 611,270. Class 42.

Heckman Products Corp., Washington, D. C. Pickles, sauerkraut, pickled cocktail onions, etc. 575,095, June 2; Serial No. 603,788, published Mar. 10, 1953. Class 46.

Heenan & Froude Limited, Worcester, England. Dynamometers. 575,134, June 2; Serial No. 619,243, published Feb. 3, 1953. Class 26.

Herber, John P., & Co., Inc.: *See*—
Herber, John P., & Company, Inc.

Herbee, John P., & Company, Inc., also doing business as John P. Herber & Co., Inc., Seattle, Wash. Canned tuna fish. 575,245, June 2; Serial No. 633,933, published Mar. 10, 1953. Class 46.

Hettrick Manufacturing Company, The, Toledo, Ohio. Awnings. 575,084, June 2; Serial No. 599,872, published Mar. 3, 1953. Class 50.

Hine & Co., Inc., Cleveland, Ohio, assignor to End-O-Rust Inc. Metal protective paint. 575,301, June 2; Serial No. 591,367. Class 10.

Hinze Ambrosia, Inc., New York, N. Y. Face powders. 305,301, renewed Aug. 15, 1953. O. G. June 2. Class 51.

Hi-Yield Fertilizer Co., Bonham, Tex. Plant food for use as a fertilizer. 575,309, June 2; Serial No. 611,783. Class 10.

Hockensmith, John B., sometimes doing business as Johns Hollywood Salon or Johns Hollywood Beauty Salon, Knoxville, Tenn. Shampoos. 575,338, June 2; Serial No. 626,377. Class 52.

Hoffmann-La Roche Inc., Nutley, N. J. Antibacterial preparation. 575,262, June 2; Serial No. 638,418, published Feb. 24, 1953. Class 18.

Hopf, Paul, doing business as Hopf, Ringieb & Co., Berlin, Germany. Abrasive disks and abrasive strips for use by dentists. 575,224, June 2; Serial No. 632,650, published Feb. 24, 1953. Class 44.

Hopf, Ringieb & Co.: *See*—
Hopf, Paul.

Hopp Press, Inc., The, New York, N. Y. Printed price cards and printed price tags. 575,300, June 2; Serial No. 590,636. Class 38.

Houghton, E. F., & Co., Philadelphia, Pa. Oil preparation for softening leather. 92,219, June 24, 1913. Republished June 2. Class 6.

Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. 303,719–20, renewed June 6, 1953. O. G. June 2. Class 42.

Industrias Muerza S. A. Viuda e Hijos de Máximo Muerza, San Adrian, Navarra, Spain. Canned artichokes, asparagus, mushrooms, etc. 575,150, June 2; Serial No. 623,145, published Mar. 10, 1953. Class 46.

Intelligence Publishing Company, Inc., New York, N. Y. Magazines. 575,339, June 2; Serial No. 626,380. Class 38.

International Heater Company, Utica, N. Y. Hot water boilers and hot water supply heaters. 575,124, June 2; Serial No. 617,084, published Feb. 3, 1953. Class 34.

International Plywoods Limited, Montreal, Quebec, Canada. Plywood. 575,102, June 2; Serial No. 605,587, published Feb. 3, 1953. Class 12.

Jackson & Walton, Modesto, Calif. Fresh produce—namely, peaches, apricots, and tomatoes. 575,205, June 2; Serial No. 630,847, published Mar. 10, 1953. Class 46.

Jersee Company, The, doing business as Security Food Company, Minneapolis, Minn. Concentrated food product. 575,258, June 2; Serial No. 636,851, published Mar. 10, 1953. Class 46.

Johns Hollywood Beauty Salon: *See*—
Hockensmith, John B.

Johns Hollywood Salon: *See*—
Hockensmith, John B.

Johnson, Oney A., doing business under the firm name and style of Sampo Manufacturing Co., San Francisco, Calif. Ball bearing swivels for the attachment of lures to a line. 575,232, June 2; Serial No. 633,423, published Mar. 10, 1953. Class 22.

June Dairy Products Co., Inc., assignee: *See*—
Gude Brothers, Kieffer Company.

Kabo Corset Company, Chicago, Ill., to Kops Bros., Inc., New York, N. Y. Foundation garments, brasselettes, etc. 297,562, renewed Sept. 20, 1952. O. G. June 2. Class 39.

Kidde, Walter, & Company, Inc., New York, N. Y., to Walter Kidde & Company, Inc., Belleville, N. J. Fire detecting systems. 305,484, renewed Aug. 15, 1953. O. G. June 2. Class 21.

Kops Bros., Inc.: *See*—
Kabo Corset Company.

Korman, Loraine H., doing business as C. & H. Steinkraus Co., Chicago, Ill. Medicinal tea. 575,062, June 2; Serial No. 567,147, published Feb. 17, 1953. Class 18.

Kriel, Walter E., to Adex Manufacturing Company, Baltimore, Md. Adhesive sizing, adhesive gums, and adhesive pastes. 92,234, re-renewed June 24, 1953. O. G. June 2. Class 5.

Lursh, Everett P.: *See*—
Etc., Inc.

Lea A-V Service: *See*—
Schuller, Louis R.

Leather Specialty Co.: *See*—
Sherry, Morris.

Lee County Bank, The, Fort Myers, Fla. Banking services. 575,278, June 2; Serial No. 616,714, published Mar. 10, 1953. Class 102.

Lee, Dorothy, doing business as Dottie Lee Bakeries, Amarillo, Tex. Bread. 575,240, June 2; Serial No. 638,001, published Mar. 10, 1953. Class 46.

Lee, Dottie, Bakeries: *See*—
Lee, Dorothy.

Light Grain & Milling Co., Inc., Liberal, Kans. Wheat flour and wheat breakfast foods. 575,081, June 2; Serial No. 599,104, published Mar. 10, 1953. Class 46.

Light Products, Inc., Beverly Hills, Calif. Flashing neon warning and beacon lights used for beacons, highway traffic markers, etc. 575,110, June 2; Serial No. 610,858, published Feb. 24, 1953. Class 21.

Lorillard, P., Company, New York, N. Y. Cigarettes. 575,348, June 2; Serial No. 632,623. Class 17.

Love, John, West Orange, N. J. Portable vehicle wheel toe-in and toe-out and camber indicator. 575,119, June 2; Serial No. 615,839, published Feb. 3, 1953. Class 26.

Lubrication Engineers, Inc., Fort Worth, Tex. Graphited roller lubricants, gear lubricants, wheel bearing lubricants, etc. 575,250, June 2; Serial No. 634,743, published Feb. 24, 1953. Class 15.

Macy, R. H., & Co., Inc., New York, N. Y. Garters. 575,293, June 2; Serial No. 545,409. Class 39.

Magic Iron Cement Company: *See*—
Reich, Herman J.

Magnatex Limited, Harlington, England. Motors operated by air-pressure, vacuum and fluid pressure and parts thereof. 575,154, June 2; Serial No. 622,946, published Dec. 30, 1952. Class 23.

Magnet Cove Barium Corporation, Bellaire, Tex. Ground barytes, native clays, and mica. 575,103, June 2; Serial No. 605,596, published Feb. 17, 1953. Class 1.

Mallinckrodt Chemical Works, St. Louis, Mo. Glass bottles. 575,089, June 2; Serial No. 601,328, published Feb. 17, 1953. Class 33.

Marchal, Paul R., Paris, France. Industrial and domestic air conditioning installations and apparatus. 575,127, June 2; Serial No. 617,803, published Mar. 3, 1953. Class 34.

Marlboro Automotive Co.: *See*—
Ferber, Murray.

Marsh Stencil Machine Company, Belleville, Ill. Gummed tape dispensing machines. 575,298, June 2; Serial No. 589,582. Class 23.

Marshall-Wells Company, Duluth, Minn. Lubricating oil. 303,286, renewed May 16, 1953. O. G. June 2. Class 15.

Mason Plastics Co., Inc., Kansas City, Kans. Bowling pins. 575,079, June 2; Serial No. 597,087, published Mar. 10, 1953. Class 22.

Master Builders Company, The, Cleveland, Ohio. Material to be used as an ingredient for concrete and mortar mixes. 575,226, June 2; Serial No. 632,735, published Feb. 10, 1953. Class 12.

McCoy, Robert, New York, N. Y. Combined head protector and temple guards for baseball players. 575,216, June 2; Serial No. 631,746, published Mar. 10, 1953. Class 22.

McCrory Stores Corporation, New York, N. Y. Razor blades. 301,706, renewed Mar. 14, 1953. O. G. June 2. Class 23.

McDonald, A. Y., Mfg. Co., Dubuque, Iowa. Galley pumps, force pumps, shallow and deep well reciprocating pumps, etc. 575,145, June 2; Serial No. 621,277, published Feb. 3, 1953. Class 23.

McDonald, A. Y., Mfg. Co., Dubuque, Iowa. Foot valves and strainers, pipe plugs, pipe couplings, etc. 575,146, June 2; Serial No. 621,278, published Feb. 17, 1953. Class 13.

McKinley Corporation, Baraboo, Wis. Hammocks. 575,099, June 2; Serial No. 604,630, published Mar. 10, 1953. Class 22.

Mead Johnson & Company, assignee: *See*—
Gross, Lewis A.

Meat Industry Suppliers, Inc., Chicago, Ill. Barbeque sauce. 575,126, June 2; Serial No. 617,546, published Jan. 27, 1953. Class 46.

Medicus, Philip J., New York, N. Y. Sunglasses, goggles and spectacles, shooting glasses. 575,175, June 2; Serial No. 626,809, published Feb. 3, 1953. Class 26.

Meinirk, J. A., Company, Incorporated: *See*—
Meinick, Jacob A.

Meinick, Jacob A., Brooklyn, to J. A. Meinick Company, Incorporated, New York, N. Y. Window frames, sash, doors, and trim. 304,255, renewed June 27, 1953. O. G. June 2. Class 12.

Mercantile Stores Company, Inc., Wilmington, Del. Gas stoves. 575,233, June 2; Serial No. 633,479, published Feb. 10, 1953. Class 34.

Mergenthaler Linotype Company, New York, to Mergenthaler Linotype Company, Brooklyn, N. Y. Matrices. 92,096, re-renewed June 17, 1953. O. G. June 2. Class 23.

Metal Textile Corporation, doing business as Mystic Mit Makers, West Orange, to Metal Textile Corporation, Roselle, N. J. Metallic abrasive pot cleaners. 302,127, renewed Mar. 28, 1953. O. G. June 2. Class 4.

Metal Textile Corporation, West Orange, to Metal Textile Corporation, Roselle, N. J. Metallic abrasive scouring pads. 302,521, renewed Apr. 25, 1953. O. G. June 2. Class 4.

Mica Insulator Company, Schenectady, N. Y. Electrical insulating materials and supplies and electrical insulators. 575,202, June 2; Serial No. 630,089, published Feb. 24, 1953. Class 21.

Mica Insulator Company, Schenectady, N. Y. Dense, machinable and moldable composite material. 575,208, June 2; Serial No. 631,167, published Mar. 3, 1953. Class 1.

Michaels, Stern, & Company, Incorporated, Rochester, N. Y. Men's suits, coats and trousers. 575,341, June 2; Serial No. 626,088. Class 39.

Mid-Continent Seeds Inc.: *See*—
Berry Seed Company.

Midland Electric Manufacturing Company Limited, Tyseley, Birmingham, England. Electrical apparatus. 575,118, June 2; Serial No. 614,157, published Feb. 24, 1953. Class 21.

Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' and girls' shoes. 575,320, June 2; Serial No. 618,363. Class 39.

Miller, J. H., Mfg. Corporation, Quincy, Ill. Children's play masks. 575,155, June 2; Serial No. 622,947, published Mar. 10, 1953. Class 22.

Miller Shoe Company, The, Cincinnati, Ohio. Women's and Misses' leather shoes. 575,318, June 2; Serial No. 617,070. Class 39.

Minneapolis-Moline Company, Hopkins, Minn. Corn picking and husking machines. 575,078, June 2; Serial No. 593,848, published Feb. 17, 1953. Class 23.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Electrical insulating film. 575,236, June 2; Serial No. 633,624, published Mar. 3, 1953. Class 21.

Mitchell, Rand, Mfg. Corp., New York, N. Y. Pliable asphalt material. 575,294, June 2; Serial No. 573,048. Class 12.

Mizrachi, Joseph, New York, N. Y. Men's and boys' shoes. 575,343, June 2; Serial No. 626,895. Class 39.

Monarch Aluminum Mfg. Company, Cleveland, Ohio. Permanent mold aluminum castings, aluminum die castings and zinc die castings. 575,209, June 2; Serial No. 631,170, published Mar. 10, 1953. Class 14.

Monroe Auto Equipment Company, Monroe, Mich. Automobile shock absorbers. 575,157, June 2; Serial No. 623,558, published Mar. 10, 1953. Class 19.

Moore Business Forms, Inc.: *See*—
American Sales Book Company, Limited.

Morgan Crucible Company Limited, The, London, England. Crucibles. 575,101, June 2; Serial No. 605,523, published Mar. 10, 1953. Class 31.

Mor-Pak Preserving Corporation, Stockton, to Mor-Pak Preserving Corporation, San Francisco, Calif. Canned fruits. 301,002, renewed Feb. 14, 1953. O. G. June 2. Class 46.

Morton Manufacturing Corporation, Lynchburg, Va. Hair beautifying cream. 301,546, renewed Mar. 7, 1953. O. G. June 2. Class 51.

Moth-King Corporation, Detroit, Mich. Vaporizing apparatus comprising an electrically heated pot. 575,063, June 2; Serial No. 569,461, published Mar. 3, 1953. Class 21.

Mountain Fruit Company, Cedaredge, Colo. Fresh deciduous fruits. 575,070, June 2; Serial No. 586,183, published May 27, 1952. Class 46.

Moxie Company, The, Boston, to The Moxie Company, Needham Heights, Mass. Nonalcoholic, maltless carbonated beverages, and extracts and syrups therefor. 304,192, renewed June 27, 1953. O. G. June 2. Class 45.

Mrs. America, Inc., New York, N. Y. Sales promotion of goods and services of subscribers to proprietor's services, etc. 575,274, June 2; Serial No. 596,469, published Mar. 10, 1953. Class 101.

Mulcine Co., The: *See*—
Gross, Lewis A.

Mulcine Company, The: *See*—
Gross, Lewis A.

Multi-Hydromatic Welding and Manufacturing Company, East Detroit, Mich. Electric welding apparatus. 575,210, June 2; Serial No. 631,300, published Mar. 10, 1953. Class 21.

Mutual Boiler and Machinery Insurance Company, Boston, Mass. Underwriting of insurance against property damage and bodily injury. 575,289, June 2; Serial No. 631,491, published Mar. 10, 1953. Class 102.

Myers, E. A., & Sons, Inc., Mount Lebanon, Pittsburgh, Pa. Electrically operable hearing aid components. 575,218, June 2; Serial No. 631,881, published Mar. 3, 1953. Class 44.

Mystic Mit Makers: *See*—
Metal Textile Corporation.

Nashua Manufacturing Company, Nashua, N. H., to Textron Incorporated, Providence, R. I. Cotton piece goods. 302,085, renewed Mar. 28, 1953. O. G. June 2. Class 42.

National Alfalfa Dehydrating & Milling Company, Lamar, Colo. Enriched dehydrated alfalfa meal. 575,215, June 2; Serial No. 631,628, published Mar. 10, 1953. Class 46.

National City Bank of New York, The, New York, N. Y. Banking services. 572,272, June 2; Serial No. 587,813, published Mar. 3, 1953. Class 102.

National Laboratories, Inc., Toledo, Ohio. Plastic case. 575,317, June 2; Serial No. 616,326. Class 2.

Natvar Corporation, Woodbridge, N. J. Electrical insulating sheet material. 575,176, June 2; Serial No. 627,401, published Feb. 24, 1953. Class 21.

Nea Service, Inc., Cleveland, Ohio. Comic strip. 304,090, renewed June 20, 1953. O. G. June 2. Class 38.

Newman Industries Limited, Yate, Bristol, England. Electric motors. 575,313, June 2; Serial No. 613,305. Class 21.

Newport Ships, Not Inc.: *See*—
Etc., Inc.

New York World-Telegram Corporation, New York, N. Y. Periodical. 303,192, renewed May 16, 1953. O. G. June 2. Class 38.

Nirenberg & Saizman, Inc., New York, N. Y. Men's dress and sport shirts. 575,322, June 2; Serial No. 618,754. Class 39.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion engines. 575,217, June 2; Serial No. 631,755, published Jan. 20, 1953. Class 23.

Nordmark-Werke G. m. b. H., Hamburg, Germany, vested in the Attorney General of the United States, Washington, D. C. Medicinal preparation. 300,187, renewed Jan. 10, 1953. O. G. June 2. Class 18.

Nordmark-Werke G. m. b. H., Hamburg, Germany, vested in the Attorney General of the United States, Washington, D. C. Medicinal dietetic food preparation. 300,188, renewed Jan. 10, 1953. O. G. June 2. Class 18.

Nordmark-Werke G. m. b. H., Hamburg, Germany, vested in the Attorney General of the United States, Washington, D. C. Liver food preparations and tonic food preparations, malt and fodder. 300,355, renewed Jan. 17, 1953. O. G. Jan. 2. Class 46.

Nordmark-Werke G. m. b. H., Hamburg, Germany, vested in the Attorney General of the United States, Washington, D. C. Medicinal preparations. 300,935, renewed Feb. 14, 1953. O. G. June 2. Class 18.

Nordmark-Werke G. m. b. H., Hamburg, Germany, vested in the Attorney General of the United States, Washington, D. C. Medicinal preparations. 301,052, renewed Feb. 14, 1953. O. G. June 2. Class 18.

Nutrition Research Laboratories, Inc., Chicago, Ill. Pharmaceutical. 575,231, June 2; Serial No. 633,319, published Feb. 17, 1953. Class 18.

Nye, George L., doing business as The Havatan Company, Mullins, S. C. Lotion to promote suntan and relieve sunburn. 575,150, June 2; Serial No. 621,835, published Nov. 4, 1952. Class 51.

Oertli, T. A. G, Zurich, Switzerland. Electrical juicers, electrical bakery and pastry machines, electrical food cutting machines, etc. 575,107, June 2; Serial No. 608,468, published Feb. 10, 1953. Class 21.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverplated flat and hollow tableware. 575,147, June 2; Serial No. 621,631, published Mar. 10, 1953. Class 28.

Ortho Pharmaceutical Corporation: *See*—
Burchard, C. D., Inc.

Otis Elevator Company, Jersey City, N. J., and New York, N. Y., to Otis Elevator Company, New York, N. Y. Door closers and door hangers. 301,300, renewed Feb. 28, 1953. O. G. June 2. Class 13.

Otis Elevator Company, Jersey City, N. J., and New York, N. Y., to Otis Elevator Company, New York, N. Y. Door closers. 301,301, renewed Feb. 28, 1953. O. G. June 2. Class 13.

Otis Elevator Company, Jersey City, N. J., and New York, N. Y., to Otis Elevator Company, New York, N. Y. Dumb waiters and guide rail lubricators. 301,709–10, renewed Mar. 14, 1953. O. G. June 2. Class 23.

Otis Elevator Company, Jersey City, N. J., and New York, N. Y., to Otis Elevator Company, New York, N. Y. Electric motors, electric generators; switching equipment. 301,877–8, renewed Mar. 21, 1953. O. G. June 2. Class 21.

Oxford Boyswear, Inc., New York, N. Y. Boys' suits, pants, slacks, and jackets. 575,330, June 2; Serial No. 622,403. Class 39.

Pagoda Knitting Mills, Inc., Reading, Pa. Women's hosiery. 575,337, June 2; Serial No. 626,000. Class 39.

Paisley, T. J., Company, Medina, Ohio. Honey. 575,108. June 2; Serial No. 609,810, published Mar. 10, 1953. Class 46.

Parman and Kendall, Homestead, Fla. Canned frozen lime juice concentrate. 575,140, June 2; Serial No. 620,322, published Mar. 10, 1953. Class 46.

Pennzoil Company, The, Los Angeles, Calif. Compound for use as a motor fuel additive and as a cleaner. 573,148, June 2; Serial No. 621,633, published Feb. 24, 1953. Class 52.

Perfecting Service Company, Charlotte, N. C. Servicing of connection devices—namely the servicing and repairing of rotary unions and flexible metal hose. 551,363, Nov. 27, 1951. Corrected O. G. June 2. Class 103.

Permatex Company, Inc., Brooklyn, N. Y. Automotive product—namely, a non-mineral oil lubricant. 575,144, June 2; Serial No. 621,225, published July 8, 1952. Class 15.

Pforr, Arthur: *See*—
Allan, A., & Son.

Pharmaceuticals, Inc., Newark, N. J. Geriatric dietary supplement. 575,212, June 2; Serial No. 631,437, published Feb. 17, 1953. Class 18.

Picker X-Ray Corporation, New York, N. Y. X-ray film holders. 575,120, June 2; Serial No. 610,047, published Feb. 3, 1953. Class 26.

Pinaud, Ed., Inc.: *See*—
Pinaud, Inc.

Pinaud, Inc., to Ed. Pinaud, Inc., New York, N. Y. Toilet soaps, shaving soap sticks, and shaving soap cream. 305,349, renewed Aug. 15, 1953. O. G. June 2. Class 51.

Pond, Arthur E., doing business as Pond Bros., Detroit, Mich. Jewelry. 575,094, June 2; Serial No. 603,377, published Mar. 10, 1953. Class 28.

Pond Bros.: *See*—
Pond, Arthur E.

Popalisky and Rachlin, Milwaukee, Wis. Ready-to-install bats of sound absorbing lining material for automobile engine compartments and the like. 575,158, June 10; Serial No. 623,562, published Mar. 10, 1953. Class 19.

Purex Corporation, Ltd., South Gate, Calif. Powdered cleanser. 575,346, June 2; Serial No. 629,621. Class 52.

Randall Faichney Corporation, Boston, Mass. Hypodermic needles and syringes, and parts thereof, and clinical thermometers. 575,083, June 2; Serial No. 599,233, published Mar. 3, 1953. Class 44.

Reich, Herman J., doing business as Magic Iron Cement Company, Cleveland, Ohio. Rubbing and polishing compound. 575,100, June 2; Serial No. 605,053, published Mar. 10, 1953. Class 4.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and synthetic resin solutions. 575,230, June 2; Serial No. 633,218, published Dec 2, 1952. Class 6.

Reliable Electric Company, Chicago, Ill. Electrical connectors. 575,237, June 2; Serial No. 633,631, published Mar. 3, 1953. Class 21.

Rivoli Corset Co., Inc., New York, N. Y. Corsets, brassières and girdles. 575,347, June 2; Serial No. 631,376. Class 39.

Roberts Manufacturing Co., Cleburne, Tex. Stove hood. 575,229, June 2; Serial No. 632,997, published Feb. 3, 1953. Class 34.

Robertson, Mildred J., New York, N. Y. Games and toys. 575,098, June 2; Serial No. 604,549, published Mar. 10, 1953. Class 22.

Robins, A. H., Company, Inc., Richmond, Va. Medicinal preparation. 355,898, Apr. 5, 1938. Republished June 2. Class 18.

Rockwood Sprinkler Company: *See*—
Rockwood Sprinkler Company of Massachusetts.

Rockwood Sprinkler Company of Massachusetts, to Rockwood Sprinkler Company, Worcester, Mass. Pressure operated valves. 302,917, renewed May 2, 1953. O. G. June 2. Class 13.

Roehrig, John, Pittsburgh, Pa. Spring suspensions for vehicles. 575,103, June 2; Serial No. 628,431, published Mar. 10, 1953. Class 19.

Roller Derby Associates, Chicago, Ill. All types of dolls and toy figures. 575,086, June 2; Serial No. 600,977, published Mar. 10, 1953. Class 22.

Roop & Babb Co., Columbus, Ohio. Fabric tie holder. 575,316, June 2; Serial No. 616,247. Class 40.

Rose, J., & Co., Inc., New York and Brooklyn, N. Y. Electric cooking ranges. 575,246, June 2; Serial No. 634,003, published Mar. 10, 1953. Class 21.

Ross, Abe D., Havertown, Pa. Material comprising a stone composition. 575,211, June 2; Serial No. 631,313, published Mar. 10, 1953. Class 12.

Royal Bedding Company, Buffalo, N. Y. Mattress ensembles and parts thereof. 575,323, June 2; Serial No. 619,650. Class 32.

Rulevel Incorporated, Glendale, Calif. Measuring instruments. 575,295, June 2; Serial No. 575,786. Class 26.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Fabrication, preparation, and treatment of metals and metal products. 575,268–9, June 2; Serial No. 564,161–2, published Mar. 10, 1953. Class 106.

S. A. Innocente Mangili Adriatica Incorporated, New York, N. Y. International freight forwarding service. 575,287, June 2; Serial No. 628,154, published Mar. 3, 1953. Class 105.

Safeway Stores, Incorporated, Oakland, Calif. Dried fruit. 575,168, June 2; Serial No. 626,174, published Mar. 10, 1953. Class 46.

Salerno-Megowen Biscuit Company, Chicago, Ill. Cookies. 575,213, June 2; Serial No. 631,500, published Mar. 10, 1953. Class 46.

Sampo Manufacturing Co.: *See*—
Johnson, Oney A.

Schlitz, Jos., Brewing Company, to Jos. Schlitz Brewing Company, Milwaukee, Wis. Lager beer. 90,587, renewed Mar. 4, 1953. O. G. June 2. Class 48.

Schroeder Bros., Inc., New York, N. Y. Dates. 575,200, June 2; Serial No. 629,818, published Mar. 3, 1953. Class 46.

Schroeder Bros., Inc., New York, N. Y. Dates. 575,201, June 2; Serial No. 629,820, published Mar. 3, 1953. Class 46.

Schuller, Louis H., doing business as Lea A-V Service, Albert Lea, Minn. Wax compound used as a mounting adhesive. 575,352, June 2; Serial No. 636,149. Class 5.

Schwarz & Co., Newark, N. J. Men's and boys' undergarments and outer garments. 575,334, June 2; Serial No. 625,132. Class 39.

Schwarz & Co., Newark, N. J. Men's and boys' undergarments. 575,335–6, June 2; Serial No. 625,133–4. Class 39.

Seaboard Seed Company, Philadelphia, Pa. Lawn seed. 575,161, June 2; Serial No. 624,363, published Feb. 17, 1953. Class 1.

Seaboard Seed Company Philadelphia, Pa. Lawn seed. 575,162, June 2; Serial No. 624,366, published Feb. 17, 1953. Class 1.

Searle, G. D., & Co., Skokie, Ill. Medicinal agent. 575,266, June 2; Serial No. 640,370, published Mar. 17, 1953. Class 18.

Sears, Roebuck and Co., Chicago, Ill. Vanilla flavoring, imitation vanilla flavoring, lemon extract, etc. 575,072, June 2; Serial No. 587,565, published Mar. 10, 1953. Class 46.

Security Food Company: *See*—
Jersee Company, The.

Sewing Machine Factors, San Francisco, Calif. Sewing machines. 575,136, June 2; Serial No. 619,480, published Feb. 10, 1953. Class 23.

Sherry, Morris, doing business as Leather Specialty Co., New York, N. Y. Watch straps. 575,143, June 2; Serial No. 621,090, published Mar. 3, 1953. Class 28.

Skelly Oil Company, Kansas City, Mo. Gas stoves, gas ranges, gas heaters, etc. 575,249, June 2; Serial No. 634,555, published Mar. 10, 1953. Class 34.

Society "Electro-Mecanique de l'Aveyron," S. A., Rodez (Aveyron), France. Electric brakes and spare parts therefor. 575,137, June 2; Serial No. 619,552, published Mar. 10, 1953. Class 21.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Butchers' kraft wrapping paper. 570,992, Feb. 24, 1953. Corrected O. G. June 2. Class 37.

Southern Coal Company, Inc., Memphis, Tenn., to Harlan-Wallins Coal Corporation, Verda, Ky. Coal. 302,396, renewed Apr. 18, 1953. O. G. June 2. Class 1.

Southern Equipment Company, St. Louis, Mo. Hint food tables. 575,093, June 2; Serial No. 663,028, published Feb. 3, 1953. Class 34.

Southwest Airways Company, South San Francisco, Calif. Transportation by aircraft. 575,285, June 2; Serial No. 625,046, published Mar. 3, 1953. Class 105.

Sped-Fresh Company, The, Dayton, Ohio. Fresh cut flowers. 575,059, June 2; Serial No. 538,463, published Feb. 17, 1953. Class 1.

Spoto, Sam P., doing business under the name and style of El Ranchero Canning Company, Tampa, Fla. Canned vegetables and canned pork and beans. 575,092, June 2; Serial No. 602,920, published Mar. 10, 1953. Class 46.

Squirt Company, The, Beverly Hills, Calif. Glass salt and pepper shakers. 575,259, June 2; Serial No. 637,151, published Mar. 3, 1953. Class 33.

Standard Brands Incorporated, New York, N. Y. Dough improver. 305,645; renewed Aug. 22, 1953. O. G. June 2. Class 46.

Standard Fruits, Inc., Wenatchee, Wash. Fresh apples. 575,067, June 2; Serial No. 578,231, published Mar. 10, 1953. Class 46.

Standard Insulation Company, East Rutherford, N. J. Laminated material. 575,142, June 2; Serial No. 620,696, published Feb. 17, 1953. Class 1.

Standard Seed and Feed Company: *See*—
Berry Seed Company.

Standard Seed Co.: *See*—
Berry Seed Company.

Stant Manufacturing Company, to Stant Manufacturing Company, Inc., Connersville, Ind. Vehicle radiator and gasoline filler caps. 299,973; renewed Jan. 3, 1953. O. G. June 2. Class 19.

Stant Manufacturing Company, Inc.: *See*—
Stant Manufacturing Company.

Stearns' Enterprises: *See*—
Stearns, Robert F.

Stearns, Robert F., doing business as Stearns' Enterprises, Arlington, Mass. Composition for cleaning and restoring suede finished materials. 575,329, June 2; Serial No. 622,364. Class 52.

Steinkraus, C. & H., Co.: *See*—
Korman, Loraine H.

Stelzer Bros. Inc., New York, N. Y. Belts. 437,869, Mar. 30, 1048; republished June 2, 1953. Class 39.

Stetson China Co., Inc., Lincoln, Ill. Dinnerware. 575,198, June 2; Serial No. 629,131, published Feb. 17, 1953. Class 30.

Stevens Brothers, also doing business as Stevens Van Lines, Saginaw, Mich. Moving of household goods and automobiles by van and the storage of household goods and automobiles. 575,280, June 2; Serial No. 617,323, published Mar. 10, 1953. Class 105.

Stevens Van Lines: *See*—
Stevens Brothers.

Strong Electric Corporation, The, Toledo, Ohio. Electric projection lamps, electric rectifiers, and parts thereof. 575,068, June 2; Serial No. 583,559, published Feb. 24, 1953. Class 21.

Style-Craft Lingerie, Inc., New York, N. Y. Panties, dansettes, chemises, etc. 304,353; renewed July 4, 1953. O. G. June 2. Class 39.

Super Market Institute, Inc., Chicago, Ill. Conducting research for its members relating both to their industrial and merchandising problems. 575,350, June 2; Serial No. 601,959. Class 100.

Synchro Watch & Jewelry Corp., New York, N. Y. Watch cases and watch dials. 575,074, June 2; Serial No. 588,601, published May 29, 1951. Class 27.

Taylor, John B., Liverpool, N. Y. Real estate brokerage. 575,279, June 2; Serial No. 617,268, published Mar. 3, 1953. Class 102.

Taylor & Sledd, Inc., Richmond, Va. Canned fruits and vegetables. 575,257, June 2; Serial No. 636,819, published Mar. 10, 1953. Class 46.

Tennessee Corporation, New York, N. Y. Fertilizers and soil conditioners. 301,415, Feb. 28, 1933; republished June 2. Class 10.

Textron Incorporated: *See*—
Nashua Manufacturing Company.

Thermoflector Corporation, North Sioux City, S. Dak., assignee of Era Development Corp. Heat reflective panels. 575,128, June 2; Serial No. 617,900, published Mar. 10, 1953. Class 12.

Thomas Manufacturing Corp., Newark, N. J. Toys. 575,105, June 2; Serial No. 628,587, published Mar. 10, 1953. Class 22.

Thomas, Seth, Clock Company, Thomaston, Conn., by General Time Corporation, New York, N. Y. Electrical motors. 300,686, Jan. 31, 1933; republished June 2. Class 21.

Tilt-A-Door Corporation, Detroit, Mich. Horizontally pivoted windows. 575,261, June 2; Serial No. 638,022, published Mar. 10, 1953. Class 12.

Todd Shipyards Corporation, New York, N. Y. Dry docking of all types and sizes of ships. 575,288, June 2; Serial No. 630,553, published Mar. 3, 1953. Class 105.

Travelodge Corporation, San Diego, Calif. Lodging services. 575,271, June 2; Serial No. 586,501, published Mar. 10, 1953. Class 100.

United States Safety Service Co., Kansas City, Mo. Goggles. 575,186, June 2; Serial No. 627,989, published Feb. 3, 1953. Class 26.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel sheets. 575,181, June 2; Serial No. 627,716, published Mar. 10, 1953. Class 14.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Metal rails and splice bars. 575,182, June 2; Serial No. 627,717, published Mar. 10, 1953. Class 14.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel sheets. 575,183, June 2; Serial No. 627,718, published Mar. 10, 1953. Class 14.

United States Steel Corporation: *See*—
American Steel and Wire Company of New Jersey, The.
United States Steel Company.

Universal Refining Products Co., Inc., New York, N. Y. Water supply rust inhibitor chemical. 575,106, June 2; Serial No. 617,637, published Mar. 17, 1953. Class 6.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 575,252–3, June 2; Serial Nos. 634,816–17, published Feb. 17, 1953. Class 18.

Van Cleef Bros., Inc., Chicago, Ill. Weatherstrip packing. 575,087, June 2; Serial No. 601,005, published Feb. 10, 1953. Class 12.

Vick Chemical Company, New York N. Y. Cough syrups, lozenges, medicated antiseptic lozenges, etc. 575,263, June 2; Serial No. 638,821, published Feb. 17, 1953. Class 18.

Virginia Dare Extract Co., Inc., Brooklyn, N. Y. Food flavoring. 575,327, June 2; Serial No. 622,236. Class 46.

Vitalic Battery Company, Inc., Dallas, Tex. Storage batteries. 575,247, June 2; Serial No. 634,129, published Mar. 10, 1953. Class 21.

Vitraside Industries: *See*—
Vitraside Industries, Inc.

Vitraside Industries, Inc., sometimes doing business as Vitraside Industries, Milwaukee, Wis. Exterior decorative panel siding. 575,164, June 2; Serial No. 624,511, published Feb. 10, 1953. Class 12.

Walker, Hiram, & Sons Inc.: *See*—
Walker, Hiram, & Sons, Limited.

Walker, Hiram, & Sons, Limited, Walkerville, Ontario, Canada, to Hiram Walker & Sons Inc., Peoria, Ill. Whisky. 304,245; renewed June 27, 1953. O. G. June 2. Class 49.

Wallace, R., & Sons Manfg. Co., The, Wallingford, Conn. Silver plated flatware. 575,104–5, June 2; Serial Nos. 606,580–1, published Mar. 10, 1953. Class 28.

Wallach's, Inc., New York, N. Y. Men's clothing. 575,314, June 2; Serial No. 613,420. Class 39.

Ward & Lake, Inc., Valley Stream, N. Y. General insurance brokerage and agency services. 575,275–6, June 2; Serial Nos. 613,430–1, published Mar. 3, 1953. Class 102.

Warnell, Charles E., Portland, Oreg. Electrically illuminated clips boards. 575,350, June 2; Serial No. 634,826. Class 21.

Waters Conley Company, Rochester, Minn. Non-electrical phonographs. 434,847, Dec. 9, 1947; republished June 2. Class 36.

Watkins, J. R., Company, The, Winona, Minn., by "4711" Limited, New York, N. Y. Brown skin face powder, complexion powder, deodorant powder, etc. 200,685, July 7, 1925; republished June 2. Classes 6, 18, 40, 51, and 52.

Wayne Pump Company, The, Fort Wayne, Ind. Pipeline or flow meters; fuel dispensers and measuring apparatus, etc. 575,135, June 2; Serial No. 619,424, published Feb. 3, 1953. Class 26.

Wear Proof Mat Company, Chicago, Ill. Rubber floor coverings. 575,219, June 2; Serial No. 632,006, published Mar. 10, 1953. Class 50.

Wella Corporation, The, New York, N. Y. Preparations for use in the treatment of hair, preparations for waving and curling the hair. 575,177, June 2; Serial No. 627,415, published Mar. 3, 1953. Class 51.

Wella Corporation, The, New York, N. Y. Preparations for use in the treatment of hair, preparations for waving and curling the hair. 575,178, June 2; Serial No. 627,416, published Feb. 17, 1953. Class 51.

Welwyn Electrical Laboratories Limited, Bedlington, Station, Northumberland, England. Electrical resistors. 575,248, June 2; Serial No. 634,227, published Mar. 10, 1953. Class 21.

West End Brewing Company, The, Utica, N. Y. Malt beverages. 305,003–4, renewed July 25, 1953. O. G. June 2. Class 48.

Western Auto Supply Company, Kansas City, Mo. Fishing rods, reels, and lines. 575,184, June 2; Serial No. 627,013, published Mar. 10, 1953. Class 22.

Western Chemical Company, St. Joseph, Mo. Wax remover or cleaner. 575,190, June 2; Serial No. 628,236, published Mar. 10, 1953. Class 52.

Western Clock Co., Peru, Ill., by General Time Corporation, New York, N. Y. Clocks and watches. 91,054, Apr. 8, 1913. Republished June 2. Class 27.

Western Machinery Company, San Fransisco, Calif. Classifiers (for sizing crushed rock and ore), thickeners (for dewatering pulps), agitators, etc. 358,388, July 12, 1938. Republished June 2. Class 23.

Western Waterproofing Company, Detroit, Mich. Masonry waterproofing and weatherproofing services. 575,267, June 2; Serial No. 537,113, published June 5, 1951. Class 103.

Weston, Byron, Company: *See*—
Carew Manufacturing Company.
Hampshire Paper Company.

Weston, Byron, Company, Dalton, Mass. Writing paper. 114,308, Dec. 5, 1916. Republished June 2. Class 37.

Weston, Byron, Company, Dalton, Mass. Writing paper. 128,940, Jan. 20, 1920. Republished June 2. Class 37.

Weston, Byron, Company, Dalton, Mass. Machine-book-keeping paper. 130,990, May 4, 1920. Republished June 2. Class 37.

Weston, Byron, Company, Dalton, Mass. Writing paper. 437,343, Mar. 16, 1948. Republished June 2. Class 37.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Abrasive cutting powder. 575,241, June 2; Serial No. 633,692, published Mar. 10, 1953. Class 4.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. 300,932, renewed Feb. 14, 1933. O. G. June 2. Class 15.

Wilson Jones Company, Chicago, Ill. Loose leaf binders. 304,879, renewed July 18, 1953. O. G. June 2. Class 37.

Wood Shovel and Tool Company, The, Piqua, Ohio. Scoops and shovels. 575,125, June 2; Serial No. 617,220, published Feb. 10, 1953. Class 23.

Worldabest Industries, Inc., Cudahy, Wis. Chairs. 575,333, June 2; Serial No. 625,056. Class 32.

Wudel, Edmund J., doing business under the fictitious name and style of Edmund J. Wudel Mfg. Co., Los Angeles, Calif. Spark plug cleaning machines. 575,091, June 2; Serial No. 602,129, published Jan. 20, 1953. Class 23.

Wudel, Edmund J., Mfg. Co.: *See*—
Wudel, Edmund J.

Wurzburg Brothers, by Wurzburg Brothers, Incorporated, Memphis, Tenn. Autographic registers, blank labels and tags, partially printed business forms, etc. 442,495, Apr. 19, 1949. Republished June 2. Class 37.

Wurzburg Brothers, Incorporated: *See*—
Wurzburg Brothers.

"Zeelandia" Fabriek van Bakkerijgrondstoffen H. J. Doeleman N. V., Zierikzee, Netherlands. Baking-tin grease emulsion. 575,254, June 2; Serial No. 635,669, published Mar. 10, 1953. Class 46.

Zion Industries, Inc., Zion, Ill. Candy. 575,004, June 2; Serial No. 570,345, published Oct. 7, 1952. Class 46.

Zylite Products Co., Inc., New York, N. Y. Eyeglass frames. 575,344, June 2; Serial No. 629,138. Class 26.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Baby chicks. E. P. Eustice. 575,082, June 2; Serial No. 599,230, published Feb. 17, 1953.

Chamois skins. Drueding Brothers Company. 575,188, June 2; Serial No. 628,147, published Feb. 24, 1953.

Clay base plastic modeling material. The American Crayon Company. 575,073, June 2; Serial No. 587,783, published Mar. 3, 1953.

Coal. Southern Coal Company, Inc. 302,396, renewed Apr. 18, 1953. O. G. June 2.

Dense, machinable and moldable composite material. Mica Insulator Company. 575,208, June 2; Serial No. 631,167, published Mar. 3, 1953.

Flowers, Fresh cut. The Sped-Fresh Company. 575,059, June 2; Serial No. 538,463, published Feb. 17, 1953.

Ground barytes, native clays, and mica. Magnet Cove Barium Corporation. 575,103, June 2; Serial No. 605,596, published Feb. 17, 1953.

Laminated material. Standard Insulation Company. 575,142, June 2; Serial No. 620,696, published Feb. 17, 1953.

Liquid composition for addition to foundry core, molding and facing sand mixtures, etc. Archer-Daniels-Midland Company. 575,115, June 2; Serial No. 613,433, published Feb. 17, 1953.

Seed, Lawn. Seaboard Seed Company. 575,161, June 2: Serial No. 624,363, published Feb. 17, 1953.

Seed, Lawn. Seaboard Seed Company. 575,162, June 2: Serial No. 624,366, published Feb. 17, 1953.

Seeds, Farm, vegetable, and flower. Berry Seed Company. 575,112, June 2; Serial No. 611,334, published Mar. 10, 1953.

Seeds, Field. Delta Seed Corporation. 575,214, June 2: Serial No. 631,348, published Mar. 3, 1953.

CLASS 2

Bags, Paper. Gulf States Paper Corporation. 575,332, June 2; Serial No. 624,685.

Boxes, Plastic covered. Atlantic Plastics Company, Inc. 575,304, June 2; Serial No. 599,413.

Boxes, Plastic fabric-covered cabinet-type. Argos Products Company, Inc. 575,310, June 2; Serial No. 612,378.

Cartons, Folding. O. B. Andrews Company. 575,315, June 2; Serial No. 613,486.

Case, Plastic. National Laboratories, Inc. 575,317, June 2; Serial No. 616,326.

CLASS 4

Abrasive cutting powder. The S. S. White Dental Manufacturing Company. 575,241, June 2; Serial No. 633,692, published Mar. 10, 1953.

Abrasive pot cleaners, Metallic. Metal Textile Corporation. 302,127, renewed Mar. 28, 1953. O. G. June 2.

Abrasive scouring pads, Metallic. Metal Textile Corporation. 302,521, renewed Apr. 25, 1953. O. G. June 2.

Polish, Wax. Gaffney Brothers Company. 575,171, June 2; Serial No. 626,454, published Mar. 10, 1953.

Rubbing and polishing compound. H. J. Reich. 575,100, June 2; Serial No. 605,033, published Mar. 10, 1953.

CLASS 5

Adhesive sizing, adhesive gums, and adhesive pastes. W. E. Kriel. 92,234, re-renewed June 24, 1953. O. G. June 2.

Wax compound used as a mounting adhesive. L. R. Schuller. 575,352, June 2; Serial No. 636,149.

CLASS 6

Castor oil, etc. The Baker Castor Oil Company. 572,577, Mar. 31, 1953. Corrected. O. G. June 2.

Chemical, Water supply rust inhibitor. Universal Refining Products Co., Inc. 575,106, June 2; Serial No. 617,637, published Mar. 17, 1953.

Face powder, Brown skin, complexion powder, deodorant powder, etc. The J. R. Watkins Company. 200,685, July 7, 1925. Republished June 2.

Oil preparation for softening leather. E. F. Houghton & Co. 92,219, June 24, 1913. Republished June 2.

Synthetic resins and synthetic resin solutions. Reichhold Chemicals, Inc. 575,230, June 2; Serial No. 633,218, published Dec. 2, 1952.

CLASS 10

Fertilizers. Atkins & Durbrow, Inc. 575,319, June 2: Serial No. 618,280.

Fertilizers and soil conditioners. Tennessee Corporation. 301,415, Feb. 28, 1933. Republished June 2.

Plant food for use as a fertilizer. Hi-Yield Fertilizer Co. 575,309, June 2; Serial No. 611,783.

CLASS 12

Asbestos felted paper and asbestos sheathing paper. The Philip Carey Manufacturing Company. 575,061, June 2; Serial No. 556,772, published Mar. 10, 1953.

Asphalt impregnated asbestos felt. The Philip Carey Manufacturing Company. 575,060, June 2; Serial No. 556,281, published Oct. 14, 1952.

Asphalt material, Pliable. Mitchell Rand Mfg. Corp. 575,294, June 2; Serial No. 573,048.

Clear and colored glazes, crackel glaze, and under glaze enamels. S. J. Hart. 575,114, June 2; Serial No. 613,370, published Feb. 10, 1953.

Concrete joists. The W. E. Dunn Manufacturing Company. 575,311, June 2; Serial No. 612,594.

Heat reflective panels. Thermoflector Corporation. 575,128, June 2; Serial No. 617,900, published Mar. 10, 1953.

Insulating siding. The Flintkote Company. 575,173, June 2; Serial No. 626,303, published Feb. 10, 1953.

Linings of hard and soft, natural and synthetic rubber and other plastic materials. Broadway Rubber Corporation. 575,191, June 2; Serial No. 628,391, published Mar. 10, 1953.

Material comprising a stone composition. A. D. Ross. 575,211, June 2; Serial No. 631,313; published Mar. 10, 1953.

Material to be used as an ingredient for concrete and mortar mixes. The Master Builders Company. 575,226, June 2; Serial No. 632,735, published Feb. 10, 1953.

Panel-siding, Exterior decorative. Vitraside Industries, Inc. 575,104, June 2; Serial No. 624,511, published Feb. 10, 1953.

Plywood. International Plywoods Limited. 575,102, June 2; Serial No. 605,587, published Feb. 3, 1953.

Steel structures, Fabricated. Emaco Derrick & Equipment Company. 575,122, June 2; Serial No. 616,475, published Feb. 10, 1953.

Weatherstrip packing. Van Cleef Bros., Inc. 575,087, June 2; Serial No. 601,005, published Feb. 10, 1953.

Window frames, sash, doors, and trim. J. A. Meinick. 304,255; renewed June 27, 1953. O. G. June 2.

Windows, Horizontally pivoted. Tilt-A-Door Corporation. 575,261, June 2; Serial No. 638,022, published Mar. 10, 1953.

CLASS 13

Barb wire. The American Steel and Wire Company of New Jersey. 300,979; renewed Feb. 14, 1953. O. G. June 2.

Door closers. Otis Elevator Company. 301,301; renewed Feb. 28, 1953. O. G. June 2.

Door closers and door hangers. Otis Elevator Company. 301,300; renewed Feb. 28, 1953. O. G. June 2.

Valves, Foot, and strainers, pipe plugs, pipe couplings, etc. A. Y. McDonald Mfg. Co. 575,146, June 2; Serial No. 621,278, published Feb. 17, 1953.

Valves, Pressure operated. Rockwood Sprinkler Company of Massachusetts. 302,917; renewed May 2, 1953. O. G. June 2.

CLASS 14

Alloy for metal joining purposes. Eutectic Welding Alloys Corporation. 575,192, June 2; Serial No. 628,401, published Mar. 10, 1953.

Alloys, Non-ferrous. A. Allan & Son. 126,507, Sept. 16, 1919; republished June 2, 1953.

Alloys, Non-ferrous. A. Allan & Son. 126,916, Oct. 14, 1919; republished June 2, 1953.

Metal rails and splice bars. United States Steel Company. 575,182, June 2; Serial No. 627,717, published Mar. 10, 1953.

Permanent mold aluminum castings, aluminum die castings and zinc die castings. Monarch Aluminum Mfg. Company. 575,209, June 2; Serial No. 631,179, published Mar. 10, 1953.

Steel sheets. United States Steel Company. 575,181, June 2; Serial No. 627,716, published Mar. 10, 1953.

Steel sheets. United States Steel Company. 575,183, June 2; Serial No. 627,718, published Mar. 10, 1953.

CLASS 15

Automotive product—namely, a non-mineral oil lubricant. Permatex Company, Inc. 575,144, June 2; Serial No. 621,225, published July 8, 1952.

Candles. Will & Baumer Candle Co., Inc. 300,932; renewed Feb. 14, 1953. O. G. June 2.

Lubricants, Graphited roller, gear lubricants, wheel bearing lubricants, etc. Lubrication Engineers, Inc. 575,250, June 2; Serial No. 634,743, published Feb. 24, 1953.

Oil, Lubricating. Marshall-Wells Company. 303,286; renewed May 16, 1953. O. G. June 2.

CLASS 16

Cements for being mixed with water to form cement base paints, etc., Powdered hydraulic. American Fluresit Company, Inc. 575,097, June 2; Serial No. 604,175, published Feb. 10, 1953.

Lacquer, Fluorescent. Canadian Radium & Uranium Corporation. 575,349, June 2; Serial No. 633,255.

Paint, Metal protective. Hine & Co., Inc. 575,301, June 2; Serial No. 591,367.

Pigments for coloring paints. Fisher, Thorsen & Company, Inc. 575,342, June 2; Serial No. 626,717.

Stains for exterior uses. Samuel Cabot, Incorporated. 575,340, June 2; Serial No. 626,654.

CLASS 17

Cigarettes. P. Lorillard Company. 575,348, June 2; Serial No. 632,623.

CLASS 18

Antibacterial preparation. Hoffmann-La Roche Inc. 575,262, June 2; Serial No. 638,418, published Feb. 24, 1953.

Antiseptics. C. D. Burchard, Inc. 301,031; renewed Feb. 14, 1953. O. G. June 2.

Chemotherapeutic agent. Farbenfabriken Bayer. 575,264, June 2; Serial No. 638,952, published Feb. 24, 1953.

Cough syrups, lozenges, medicated antiseptic lozenges, etc. Vick Chemical Company. 575,263, June 2; Serial No. 638,821, published Feb. 17, 1953.

Depot estrogen solution. E. Fougera and Company, Inc. 575,243, June 2; Serial No. 633,762, published Feb. 17, 1953.

Face powder, Brown skin, complexion powder, deodorant powder, etc. The J. R. Watkins Company. 200,685, July 7, 1925; republished June 2, 1953.

Geriatric dietary supplement. Pharmaceuticals, Inc. 575,212, June 2; Serial No. 631,437, published Feb. 17, 1953.

Hygienic and astringent powder. Eastern Research Laboratories, Inc. 575,203, June 2; Serial No. 630,263, published Feb. 17, 1953.

Medicaments, Sublingual. Abbott Laboratories. 575,220, June 2; Serial No. 632,060, published Feb. 24, 1953.

Medicinal agent. G. D. Searle & Co. 575,266, June 2; Serial No. 640,370, published Mar. 17, 1953.

Medicinal dietetic food preparation. Nordmark-Werke G. m. b. H. 300,188; renewed Jan. 10, 1953. O. G. June 2.

Medicinal preparation. H. F. Ascher & Company, Inc. 575,265, June 2; Serial No. 639,148, published Feb. 24, 1953.

Medicinal preparation. Colin Pharmacal Co., Inc. 575,239, June 2; Serial No. 633,661, published Feb. 17, 1953.

Medicinal preparation. Colin Pharmacal Co., Inc. 575,240, June 2; Serial No. 633,663, published Feb. 17, 1953.

Medicinal preparation. Nordmark-Werke G. m. b. H. 300,187; renewed Jan. 10, 1953. O. G. June 2.

Medicinal preparation. A. H. Robins Company, Inc. 355,898, Apr. 5, 1938; republished June 2, 1953.

Medicinal preparation. The Upjohn Company. 575,252–3, June 2; Serial Nos. 634,816–17, published Feb. 17, 1953.

Medicinal preparations. Nordmark-Werke G. m. b. H. 300,935; renewed Feb. 14, 1953. O. G. June 2.

Medicinal preparations. Nordmark-Werke G. m. b. H. 301,052; renewed Feb. 14, 1953. O. G. June 2.

Medicinal tea. L. H. Korman. 575,062, June 2; Serial No. 567,147, published Feb. 17, 1953.

Ointment and vitamins. L. A. Gross. 575,116, June 2; Serial No. 613,449, published Sept. 23, 1952.

Penicillin derivative. Bristol Laboratories Inc. 575,169–70, June 2; Serial Nos. 626,304–5, published Feb. 17, 1953.

Pharmaceutical. Nutrition Research Laboratories, Inc. 575,231, June 2; Serial No. 633,319, published Feb. 17, 1953.

Selenium sulfide preparations. Abbott Laboratories. 575,165, June 2; Serial No. 625,382, published Feb. 17, 1953.

CLASS 19

Bats of sound absorbing lining material for automobile engine compartments and the like. Ready-to-Install. Papalisky and Rachlin. 575,158, June 2; Serial No. 623,362, published Mar. 10, 1953.

Mobile feed tanks and mobile feed mixing tanks. Barker Poultry Equipment Co. 575,131, June 2; Serial No. 618,528, published Mar. 10, 1953.

Shock absorbers, Automobile. Monroe Auto Equipment Company. 575,157, June 2; Serial No. 623,558, published Mar. 10, 1953.

Spring suspensions for vehicles. J. Roehrig. 575,193, June 2; Serial No. 628,431, published Mar. 10, 1953.

Vehicle radiator and gasoline filler caps. Stant Manufacturing Company. 299,973, renewed Jan. 3, 1953. O. G. June 2.

CLASS 21

Antennas and parts therefor, Television, broadcasting, and receiving. The Finney Company. 575,345, June 2: Serial No. 629,482.

Arc-welding apparatus and parts thereof and accessories therefor, Electric. Cyc-Arc Limited. 575,133, June 2; Serial No. 619,156, published Mar. 3, 1953.

Batteries and component parts and electrolytes therefor, Electric storage. Electro-Acid Corporation. 575,235, June 2; Serial No. 633,611, published Mar. 3, 1953.

Connectors, Electrical. Reliable Electric Company. 575,237, June 2; Serial No. 633,631, published Mar. 3, 1953.

Connectors, Electrical. Burndy Engineering Company, Inc. 575,152, June 2; Serial No. 622,924, published Feb. 24, 1953.

Electric blankets. The Associated Merchandising Corporation. 575,225, June 2; Serial No. 632,712, published Mar. 10, 1953.

Electric brakes and spare parts therefor. Society "Electro-Mecanique de l'Aveyron," S. A. 575,137, June 2; Serial No. 619,552, published Mar. 10, 1953.

Electric cooking ranges. J. Rose & Co., Inc. 575,246, June 2; Serial No. 634,003, published Mar. 10, 1953.

Electric motors. Newman Industries Limited. 575,313, June 2; Serial No. 613,305.

Electrical apparatus. Midland Electric Manufacturing Company Limited. 575,118, June 2; Serial No. 614,157, published Feb. 24, 1953.

Electrical insulating film. Minnesota Mining and Manufacturing Company. 575,236, June 2; Serial No. 633,624, published Mar. 3, 1953.

Electrical insulating materials and supplies and electrical insulators. Mica Insulator Company. 575,202, June 2; Serial No. 630,080, published Feb. 24, 1953.

Electrical insulating sheet material. Natvar Corporation. 575,176, June 2; Serial No. 627,401, published Feb. 24, 1953.

Electrical juicers, electrical bakery and pastry machines, electrical food cutting machines, etc. T. Oertli, A. G. 575,107, June 2; Serial No. 608,468, published Feb. 10, 1953.

Electrical motors. Seth Thomas Clock Company. 300,086, Jan. 31, 1933. Republished June 2.

Electrical resistors. Welwyn Electrical Laboratories Limited. 575,248, June 2; Serial No. 634,227, published Mar. 10, 1953.

Electrically illuminated clips boards. C. E. Warnell. 575,350, June 2; Serial No. 634,826.

Electrically operated combined floor cleaning, scrubbing and polishing machines. Finnell System, Inc. 575,132, June 2; Serial No. 619,011, published Mar. 10, 1953.

Ferrite magnets, Permanent. Ferroxcube Corporation of America. 575,189, June 2; Serial No. 628,197, published Mar. 3, 1953.

Fire detecting systems. Walter Kidde & Company, Inc. 305,484, renewed Aug. 15, 1953. O. G. June 2.

Flashing neon warning and beacon lights used for beacons, highway traffic markers, etc. Light Products, Inc. 575,110, June 2; Serial No. 610,858, published Feb. 24, 1953.

Lamps, Electric projection, electric rectifiers, and parts thereof. The Strong Electric Corporation. 575,068, June 2; Serial No. 583,559, published Feb. 24, 1953.

Motors, Electric, electric generators; switching equipment. Otis Elevator Company. 301,877–8, renewed Mar. 21, 1953. O. G. June 2.

Signaling device, Electrical. Health Guardian Corporation. 575,206, June 2; Serial No. 631,056, published Feb. 24, 1953.

Sound recording machines, Magnetic tape. Berlant Associates. 575,123, June 2; Serial No. 610,541, published Feb. 24, 1953.

Storage batteries. Vitalic Battery Company, Inc. 575,247, June 2; Serial No. 634,129, published Mar. 10, 1953.

Switches, Magnetic pressure. Etc., Inc. 575,117, June 2; Serial No. 614,088, published Feb. 24, 1953.

Television antennas, Indoor. Beacon Corporation. 575,187, June 2; Serial No. 627,995, published Feb. 24, 1953.

Vaporizing apparatus comprising an electrically heated pot. Moth-King Corporation. 575,063, June 2; Serial No. 569,461, published Mar. 3, 1953.

Welding apparatus, Electric. Multi-Hydromatic Welding and Manufacturing Company. 575,210, June 2; Serial No. 631,300, published Mar. 10, 1953.

CLASS 22

Apparatus removably secured to the handle of a golf cart. An. Hawley Products. 575,141, June 2; Serial No. 620,343, published Mar. 10, 1953.

Ball bearing swivels for the attachment of lures to a line. O. A. Johnson. 575,232, June 2; Serial No. 633,423, published Mar. 10, 1953.

Bowling pins. Mason Plastics Co., Inc. 575,079, June 2; Serial No. 597,087, published Mar. 10, 1953.

Dolls and toy figures, All types of. Roller Derby Associates. 575,088, June 2; Serial No. 600,977, published Mar. 10, 1953.

Fish netting. The Frontel Net & Twine Corp. 575,151, June 2; Serial No. 622,255, published Mar. 10, 1953.

Fishing baskets, fishing hooks, fishing lines, etc. The American Import Company. 575,353, June 2; Serial No. 641,486.

Fishing rods, reels, and lines. Western Auto Supply Company. 575,184, June 2; Serial No. 627,913, published Mar. 10, 1953.

Games and toys. ; M. J. Robertson. 575,098, June 2; Serial No. 604,549, published Mar. 10, 1953.

Golf balls. Acushnet Process Company. 575,076, June 2; Serial No. 591,901, published Mar. 10, 1953.

Hammocks. McKinley Corporation. 575,099, June 2; Serial No. 604,650, published Mar. 10, 1953.

Head protector and temple guards for baseball players, Combined. R. McCoy. 575,216, June 2; Serial No. 631,746, published Mar. 10, 1953.

Play masks, Children's. J. H. Miller Mfg. Corporation. 575,155, June 2; Serial No. 622,947, published Mar. 10, 1953.

Puzzles, Educational picture. J. G. Brink. 575,069, June 2; Serial No. 583,859, published Mar. 10, 1953.

Toy animals and insects, toy smokers' articles, toy jewelry, etc. Charms, Incorporated. 575,194, June 2; Serial No. 628,467, published Mar. 10, 1953.

Toys. Thomas Manufacturing Corp. 575,195, June 2; Serial No. 628,587, published Mar. 10, 1953.

CLASS 23

Automotive spare parts. M. Ferber. 575,096, June 2; Serial No. 604,081, published Jan. 20, 1953.

Axes, hatchets, adzes, etc. The Collins Company. 93,076, re-renewed Aug. 19, 1953. O. G. June 2.

Broadcast seeders. Farmer Feeder Company, Inc. 575,297, June 2; Serial No. 587,018.

Classifiers (for sizing crushed rock and ore), thickeners (for dewatering pulps), agitators, etc. Western Machinery Company. 358,388, July 12, 1938. Republished June 2.

Cleaning machines, Spark plug. E. J. Wudel. 575,091, June 2; Serial No. 602,129, published Jan. 20, 1953.

Corn picking and husking machines. Minneapolis-Moline Company. 575,078, June 2; Serial No. 593,848, published Feb. 17, 1953.

Disintegrating machines, Heavy-duty ground growth. American Steel Dredge Company Inc. 575,090, June 2; Serial No. 601,656, published Jan. 20, 1953.

Dispensing machines, Gummed tape. Marsh Stencil Machine Company. 575,298, June 2; Serial No. 589,582.

Drink stirrers. The Diamond Match Company. 575,331, June 2; Serial No. 622,640.

Dumb waiters and guide rail lubricators. Otis Elevator Company. 301,709–10, renewed Mar. 14, 1953. O. G. June 2.

Dust and particle separators and samplers. Buell Engineering Company, Inc. 575,196, June 2; Serial No. 628,669, published Feb. 10, 1953.

Hoists for lifting and lowering bodies on trucks; and dumping hoists for farm equipment. Converto Mfg. Co., Inc. 575,204, June 2; Serial No. 630,583, published Feb. 10, 1953.

Industrial and marine clutches, brakes for industrial machines, etc. The Fawick Airflex Company, Inc. 575,149, June 2; Serial No. 621,665, published Feb. 10, 1953.

Internal combustion engines. Nordberg Manufacturing Company. 575,217, June 2; Serial No. 631,755, published Jan. 20, 1953.

Matrices. Mergenthaler Linotype Company. 92,096, renewed June 17, 1953. O. G. June 2.

Motors operated by air-pressure, vacuum and fluid pressure and parts thereof. Magnatex Limited. 575,154, June 2; Serial No. 622,946, published Dec. 30, 1952.

Plain bearings. Farm Tools, Inc. 575,163, June 2; Serial No. 624,451, published Feb. 10, 1953.

Pumps, Galley, force pumps, shallow and deep well reciprocating pumps, etc. A. Y. McDonald Mfg. Co. 575,145, June 2; Serial No. 621,277, published Feb. 3, 1953.

Razor blades. McCrory Stores Corporation. 301,706, renewed Mar. 14, 1953. O. G. June 2.

Scoops and shovels. The Wood Shovel and Tool Company. 575,125, June 2; Serial No. 617,220, published Feb. 10, 1953.

Sewing machines. Sewing Machine Factors. 575,136, June 2; Serial No. 619,480, published Feb. 10, 1953.

Type composing machines. Fairchild Camera and Instrument Corporation. 575,109, June 2; Serial No. 610,207, published Feb. 3, 1953.

CLASS 26

Cameras, Photographic, photographic projectors, photographic printers, etc. Eastman Kodak Company. 575,121, June 2; Serial No. 616,089, published Feb. 3, 1953.

Dynamometers. Heenan & Froude Limited. 575,134, June 2; Serial No. 619,243, published Feb. 3, 1953.

Eyeglass frames. Zylite Products Co., Inc. 575,344, June 2; Serial No. 629,138.

Goggles. United States Safety Service Co. 575,186, June 2; Serial No. 627,989, published Feb. 3, 1953.

Lenses, American Optical Company. 575,197, June 2; Serial No. 629,079, published Feb. 3, 1953.

Lenses, Hardened glass protective. Chicago Eye Shield Company. 575,130, June 2; Serial No. 618,388, published Feb. 3, 1953.

Measuring instruments. Rulevel Incurporated. 575,295, June 2; Serial No. 575,786.

Meters, Pipeline or flow; fuel dispensers and measuring apparatus, etc. The Wayne Pump Company. 575,135, June 2; Serial No. 619,424, published Feb. 3, 1953.

Motion picture screens. Da-Lite Screen Company, Inc. 575,166, June 2; Serial No. 625,405, published Jan. 27, 1953.

Ophthalmic frames. American Optical Company. 575,190, June 2; Serial No. 629,142, published Feb. 3, 1953.

Portable vehicle wheel toe-in and toe-out and camber indicator. J. Love. 575,119, June 2; Serial No. 615,839, published Feb. 3, 1953.

Projection lamps, Electric. C. S. Ashcraft Mfg. Co. 575,303, June 2; Serial No. 595,648.

Spectacles and spectacle lenses. Bausch & Lomb Optical Company. 575,207, June 2; Serial No. 631,091, published Jan. 27, 1953.

Sunglasses, goggles and spectacles, shooting glasses. P. J. Meilicus. 575,175, June 2; Serial No. 626,809, published Feb. 3, 1953.

X-ray film holders. Picker X-Ray Corporation. 575,120, June 2; Serial No. 616,047, published Feb. 3, 1953.

CLASS 27

Clocks and watches. Western Clock Co. 91,054, Apr. 8, 1913. Republished June 2.

Watch cases and watch dials. Synchro Watch & Jewelry Corp. 575,074, June 2; Serial No. 588,601, published May 29, 1951.

Watches, watch cases, and watch movements. The Gruen Watch Coompany. 575,251, June 2; Serial No. 634,784, published Mar. 3, 1953.

CLASS 28

Bracelets and watch bracelets and watch straps. Gemex Company. 575,172, June 2; Serial No. 626,455, published Feb. 17, 1953.

Jewelry. A. E. Pond. 575,094, June 2; Serial No. 603,377, published Mar. 10, 1953.

Silverplated flat and hollow tableware. Oneida Ltd. 575,147, June 2; Serial No. 621,631, published Mar. 10, 1953.

Silver plated flatware. The R. Wallace & Sons Manfg. Co. 575,104–5, June 2; Serial Nos. 606,580–1, published Mar. 10, 1953.

Watch straps. M. Sherry. 575,143, June 2; Serial No. 621,090, published Mar. 3, 1953.

CLASS 30

Chinaware. Ardalt Inc. 575,160, June 2; Serial No. 624,005, published Mar. 10, 1953.

Dinnerware. Stetson China Co., Inc. 575,198, June 2; Serial No. 629,131, published Feb. 17, 1953.

Stoneware. Heath Ceramics. 575,080, June 2; Serial No. 598,852, published Feb. 24, 1953.

CLASS 32

Chairs. Worldsbest Industries, Inc. 575,333, June 2; Serial No. 625,056.

Mattress ensembles and parts thereof. Royal Bedding Company. 575,323, June 2; Serial No. 619,650.

CLASS 33

Glass bottles. Mallinckrodt Chemical Works. 575,089, June 2; Serial No. 601,328, published Feb. 17, 1953.

Glass salt and pepper shakers. The Squirt Company. 575,259, June 2; Serial No. 637,151, published Mar. 3, 1953.

CLASS 34

Air and gas drying and conditioning equipment. Daly, Merritt & Sullivan, Inc. 575,139, June 2; Serial No. 620,144, published Mar. 10, 1953.

Air conditioning installations and apparatus, Industrial and domestic. P. R. Macchal. 575,127, June 2; Serial No. 617,803, published Mar. 3, 1953.

Boilers, Hot Water, and hot water supply heaters. International Heater Company. 575,124, June 2; Serial No. 617,084, published Feb. 3, 1953.

Boilers, Steam, water heaters, stills, etc. Cleaver-Brooks Company. 575,242, June 2; Serial No. 633,695, published Mar. 3, 1953.

Burners, Oil, and water heating apparatus. Diesel Oil Burner Corp. of N. Y. 575,227, June 2; Serial No. 632,830, published Feb. 3, 1953.

Crucibles. The Morgan Crucible Company Limited. 575,101, June 2; Serial No. 605,523, published Mar. 10, 1953.

Dryers, Tobacco. G. H. Grimm. 575,159, June 2; Serial No. 623,836, published Mar. 10, 1953.

Fans, Attic and exhaust. American Coolair Corporation. 575,065, June 2; Serial No. 570,402, published Mar. 3, 1953.

Furnaces, Central heating. Hart & Crouse Corporation. 575,180, June 2; Serial No. 627,683, published Mar. 3, 1953.

Heat exchangers. D. Dalin. 575,174, June 2; Serial No. 626,783, published Feb. 24, 1953.

Heaters, Gas burning cargo. American Gas Machine Company. 575,111, June 2; Serial No. 611,122, published Mar. 10, 1953.

Hot food tables. Southern Equipment Company. 575,093, June 2; Serial No. 603,028, published Feb. 3, 1953.

Ovens, and parts pertaining to soch apparatus, Baking. American Machine and Foundry Company. 575,066, June 2; Serial No. 574,805, published Feb. 3, 1953.

Stokers. Erie City Iron Works. 575,228, June 2; Serial No. 632,981, published Feb. 3, 1953.

Stove hood. Roberts Manufacturing Co. 575,229, June 2; Serial No. 632,997, published Feb. 3, 1953.

Stoves, Gas. Mercantile Stores Company, Inc. 575,233, June 2; Serial No. 633,479, published Feb. 10, 1953.

Stoves, Gas, gas ranges, gas heaters, etc. Skelly Oil Company. 575,249, June 2; Serial No. 634,555, published Mar. 10, 1953.

Ventilation-control device. Air Devices, Inc. 575,185, June 2; Serial No. 627,916, published Mar. 10, 1953.

CLASS 36

Phonographs. Non-electrical. Waters Conley Company. 434,847, Dec. 9, 1947. Republished June 2.

CLASS 37

Advertising blanks, Partially-printed. C. W. Golden. 575,299, June 2; Serial No. 589,970.

Autographic registers, blank labels and tags, partially printed business forms, etc. Wurzburg Brothers. 442,495, Apr. 19, 1949. Republished June 2.

Loose leaf binders. Wilson Jones Company. 304,879, renewed July 18, 1933. O. G. June 2.

Manifold books. American Sales Book Company, Limited. 90,401, Feb. 25, 1913. Republished June 2.

Paper and mailing-envelopes. Carew Manufacturing Company. 145,058, July 26, 1921. Republished June 2.

Paper, Butchers' kraft wrapping. Southern Advance Bag & Paper Co. Inc. 570,992, Feb. 24, 1953. Corrected. O. G. June 2.

Paper, Ledger. Carew Manufacturing Company. 215,325, July 13, 1926. Republished June 2.

Paper, Machine-bookkeeping. Byron Weston Company. 130,090, May 4, 1920. Republished June 2.

Paper, Printing and writing. Hampshire Paper Company. 163,999, Mar. 27, 1923. Republished June 2.

Paper, Writing. Byron Weston Company. 114,308, Dec. 5, 1916. Republished June 2.

Paper, Writing. Byron Weston Company. 128,949, Jan. 20, 1920. Republished June 2.

Paper, Writing. Byron Weston Company. 437,343, Mar. 16, 1948. Republished June 2.

Paper, Writing and printing, and mailing envelopes. Carew Manufacturing Company. 184,144, May 20, 1924. Republished June 2.

Paper, Writing and printing, and mailing envelopes. Carew Manufacturing Company. 191,521, Nov. 11, 1924. Republished June 2.

CLASS 38

Books, School and college year. The Dorrille Corporation. 575,307, June 2; Serial No. 610,602.

Comic strip. Nea Service, Inc. 304,090, renewed June 20, 1953. O. G. June 2.

Journal, Agricultural. Curtis Publishing Company. 84,728, Jan. 2, 1912. Republished June 2.

Magazines. Intelligence Publishing Company, Inc. 575,339, June 2; Serial No. 626,380.

Periodical. Drake Publishing Company. 575,351, June 2; Serial No. 635,125.

Periodical. New York World-Telegram Corporation. 303,192, renewed May 16, 1953. O. G. June 2.

Printed price cards and printed price tags. The Hopp Press, Inc. 575,300, June 2; Serial No. 590,636.

CLASS 39

Belts. Stelzer Bros. Inc. 437,869, Mar. 30, 1948. Republished June 2.

Clothing, Men's. Wallach's, Inc. 575,314, June 2; Serial No. 613,429.

Coats, suits, pants, etc. Arkwright Merchandising Corporation. 303,765, renewed June 6, 1953. O. G. June 2.

Corsets, brassières and girdles. Rivoli Corset Co., Inc. 575,347, June 2; Serial No. 631,376.

Foundation garments, brasselettes, etc. Kabo Corset Company. 297,502, renewed Sept. 20, 1952. O. G. June 2.

Garters. R. H. Macy & Co., Inc. 575,293, June 2; Serial No. 545,409.

Hats and caps, Men's and boys'. Bee Hat & Cap Co. 304,558, renewed July 11, 1953. O. G. June 2.

Hats, caps, and helmets, Uniform. Geo. Brunssen Co. 90,063, Apr. 8, 1913. Republished June 2.

Hosiery, Ladies', gentlemen's and children's. William Brown Company. 89,910, Jan. 21, 1913. Republished June 2.

Hosiery, Women's. Pagoda Knitting Mills, Inc. 575,337, June 2; Serial No. 629,000.

Neckties, handkerchiefs, scarves, etc. Brocklehurst-Whiston Amalgamated Limited. 575,326, June 2; Serial No. 621,654.

Neckties, Men's. L. L. Berger, Inc. 575,305, June 2; Serial No. 606,999.

Panties, dansettes, chemises, etc. Style-Craft Lingerie, Inc. 304,353, renewed July 4, 1953. O. G. June 2.

Shirts, Men's dress and sport. Nirenberg & Salzman, Inc. 575,322, June 2; Serial No. 618,754.

Shoes, Ladies' and girls'. I. Miller & Sons, Inc. 575,320, June 2; Serial No. 618,363.

Shoes, Men and boys'. J. Mizrachi. 575,343, June 2; Serial No. 626,895.

Shoes, Women's and misses' leather. The Miller Shoe Company. 575,318, June 2; Serial No. 617,670.

Suits, coats and trousers, Men's. Michaels, Stern & Company, Incorporated. 575,341, June 2; Serial No. 626,688.

Suits, pants, slacks and jackets, Boys'. Oxford Boyswear, Inc. 575,330, June 2; Serial No. 622,403.

Suits, topcoats, sport coats and slacks, Men's, students', cadets' and boys'. Hardwick Woolen Mills, Inc. 575,354, June 2; Serial No. 639,274.

Undergarments and outer garments, Men's and boys'. Schwarz & Co. 575,334, June 2; Serial No. 625,132.

Undergarments, Men's and boys'. Schwarz & Co. 575,335–6, June 2; Serial Nos. 625,133–4.

CLASS 40

Sea shells to be used as buttons and decorative trimmings, Natural. Douglas Inc. 575,312, June 2; Serial No. 612,795.

Tie holder, Fabric. Roop & Babb Co. 575,316, June 2; Serial No. 616,247.

CLASS 42

Fabric, Book binding. The Columbia Mills, Inc. 575,321, June 2; Serial No. 618,533.

Nets and veilings. John Heathcoat and Company Limited. 575,308, June 2; Serial No. 611,270.

Piece goods, Cotton. Nashua Manufacturing Company. 302,085; renewed Mar. 28, 1953. O. G. June 2.

Rugs and carpets, Textile. Hugh Nelson-Columbia Carpet Mills, Inc. 303,719–20; renewed June 6, 1953. O. G. June 2.

CLASS 43

Thread. Futurity Thread Company. 575,328, June 2; Serial No. 622,330.

CLASS 44

Abrasive disks and abrasive strips for use by dentists. P. Hopf. 575,224, June 2; Serial No. 632,650, published Feb. 24, 1953.

Dryer-chair combination for use as beauty salon equipment. Beautilities, Inc. 575,113, June 2; Serial No. 612,724, published Feb. 24, 1953.

Endoscopic instruments. American Cystoscope Makers, Inc. 575,222, June 2; Serial No. 632,344, published Feb. 24, 1953.

Endoscopic instruments. American Cystoscope Makers, Inc. 575,353, June 2; Serial No. 637,686.

Hearing aid component, Electrically operable. E. A. Myers & Sons, Inc. 575,218, June 2; Serial No. 631,881, published Mar. 3, 1953.

Hypodermic needles and syringes, and parts thereof, and clinical thermometers. Randall Faichney Corporation. 575,083, June 2; Serial No. 599,233, published Mar. 3, 1953.

Pharyngoscopes and components thereof. American Cystoscope Makers, Inc. 575,221, June 2; Serial No. 632,342, published Feb. 24, 1953.

Specimen tube combination. Becton Dickinson and Company. 575,223, June 2; Serial No. 632,354, published Feb. 24, 1953.

CLASS 45

Beverages, and extracts and syrups therefor, Nonalcoholic, malties carbonated. The Moxie Company. 304,192; renewed June 27, 1953. O. G. June 2.

Beverages, Non-alcoholic malties. The Delaware Punch Company of America. 568,722, Jan. 6, 1953. Corrected. O. G. June 2.

CLASS 46

Alfalfa meal, Enriched dehydrated. National Alfalfa Dehydrating & Milling Company. 575,215, June 2; Serial No. 631,628, published Mar. 10, 1953.

Ammoniated hemicellulose extract for use in feeds. Commercial Solvents Corporation. 575,256, June 2; Serial No. 636,771, published Mar. 10, 1953.

Apples, Fresh. Standard Fruits, Inc. 575,067, June 2; Serial No. 578,231, published Mar. 10, 1953.

Barbeque sauce. Meat Industry Suppliers, Inc. 575,126, June 2; Serial No. 617,546, published Jan. 27, 1953.

Beans, Dried. R. S. Berger. 575,075, June 2; Serial No. 590,485, published Mar. 10, 1953.

Bread. D. Lee. 575,260, June 2; Serial No. 638,001, published Mar. 10, 1953.

Butter. Gude Brothers, Kieffer Company. 575,077, June 2; Serial No. 593,725, published Mar. 10, 1953.
Candy. Zion Industries, Inc. 575,064, June 2; Serial No. 570,345, published Oct. 7, 1952.
Candy mints. Chlorophyll Products Co., Inc. 575,244, June 2; Serial No. 633,918, published Mar. 10, 1953.
Canned artichokes, asparagus, mushrooms, etc. Industrias Muerza S. A. Viuda e Hijos de Máximo Muerza. 575,156, June 2; Serial No. 623,145, published Mar. 10, 1953.
Canned dog and cat food. Calo Dog Food Company, Inc. 575,253, June 2; Serial No. 636,769, published Mar. 10, 1953.
Canned fish, and canned shell-fish. Adolfo Quirós e Hijos. 575,325, June 2; Serial No. 620,129.
Canned frozen lime juice concentrate. Parman and Kendall. 575,140, June 2; Serial No. 620,322, published Mar. 10, 1953.
Canned fruits. Mor-Pak Preserving Corporation. 301,062; renewed Feb. 14, 1953. O. G. June 2.
Canned fruits and vegetables. Taylor & Sledd, Inc. 575,257, June 2; Serial No. 636,819, published Mar. 10, 1953.
Canned tuna fish. John P. Herber & Company, Inc. 575,245, June 2; Serial No. 633,933, published Mar. 10, 1953.
Canned vegetables and canned pork and beans. S. P. Spoto. 575,092, June 2; Serial No. 602,920, published Mar. 10, 1953.
Cheese. The Appleton Corporation. 575,306, June 2; Serial No. 609,624.
Coffee and a blend of coffee and chicory. Blue Plate Foods, Inc. 575,085, June 2; Serial No. 600,762, published Mar. 10, 1953.
Coffee and tea. Golden Bear Coffee Co., Ltd. 305,393; renewed Aug. 15, 1953. O. G. June 2.
Cookies. Salerno-Megowen Biscuit Company. 575,213, June 2; Serial No. 631,500, published Mar. 10, 1953.
Dates. Schroeder Bros., Inc. 575,200, June 2; Serial No. 629,818, published Mar. 3, 1953.
Dates. Schroeder Bros., Inc. 575,201, June 2; Serial No. 629,820, published Mar. 3, 1953.
Dough improver. Standard Brands Incorporated. 305,645; renewed Aug. 22, 1953. O. G. June 2.
Face powder, Brown skin, complexion powder, deodorant powder, etc. The J. R. Watkins Company. 200,685, July 7, 1925; republished June 2, 1953.
Fish in sausage form, Prepared. Davis Bros. Fisheries Co., Inc. 575,296, June 2; Serial No. 585,440.
Flour, Wheat, and wheat breakfast foods. Light Grain & Milling Co., Inc. 575,081, June 2; Serial No. 599,104, published Mar. 10, 1953.
Food flavoring. Virginia Dare Extract Co., Inc. 575,327, June 2; Serial No. 622,236.
Food product, Concentrated. The Jersee Company. 575,258, June 2; Serial No. 636,851, published Mar. 10, 1953.
Foodstuffs, Frozen. Chun-Wong, Inc. 575,302, June 2; Serial No. 594,887.
Fruit, Dried. Safeway Stores, Incorporated. 575,168, June 2; Serial No. 626,174, published Mar. 10, 1953.
Fruits, Fresh deciduous. Mountain Fruit Company. 575,070, June 2; Serial No. 586,183, published May 27, 1952.
Grease emulsion, Baking-tin. "Zeelandia" Fabriek van Bakkerijgrondstoffen H. J. Doeleman N. V. 575,254, June 2; Serial No. 635,669, published Mar. 10, 1953.
Honey. T. J. Paisley Company. 575,108, June 2; Serial No. 609,810, published Mar. 10, 1953.
Liver food preparations and tonic food preparations, malt and fodder. Nordmark-Werke G. m. b. H. 300,355; renewed Jan. 17, 1953. O. G. June 2.
Pickles, sauerkraut, pickled cocktail onions, etc. Heckman Products Corp. 575,095, June 2; Serial No. 603,788, published Mar. 10, 1953.
Pork, ham, bacon and sausages, Fresh, salt, and pickled. Dent's English Bacon Company Limited. 575,324, June 2; Serial No. 619,699.
Produce, Fresh, namely—peaches, apricots, and tomatoes. Jackson & Walton. 575,205, June 2; Serial No. 630,847, published Mar. 10, 1953.
Tamales. Chambers & Robinson. 575,071, June 2; Serial No. 587,014, published Mar. 10, 1953.
Vanilla flavoring, imitation vanilla flavoring, lemon extract, etc. Sears, Roebuck and Co. 575,072, June 2; Serial No. 587,565, published Mar. 10, 1953.
Vegetables, Fresh. Alexander Marketing Company. 303,423, renewed May 23, 1953. O. G. June 2.

CLASS 48

Beer, Lager. Jos. Schlitz Brewing Company. 90,587, renewed Mar. 4, 1953. O. G. June 2.
Beverages, Malt. The West End Brewing Company. 305,003–4, renewed July 25, 1953. O. G. June 2.

CLASS 49

Whisky. Hiram Walker & Sons, Limited. 304,245, renewed June 27, 1953. O. G. June 2.
Whisky, Scotch. The Distillers Agency Limited. 407,434, June 6, 1944. Amended O. G. June 2.

CLASS 50

Awnings. The Hettrick Manufacturing Company. 575,084, June 2; Serial No. 599,872, published Mar. 3, 1953.
Brooders, feeders, and waterers. H. S. Brembeck. 575,167, June 2; Serial No. 625,518, published Mar. 3, 1953.
Rubber floor coverings. Wear Proof Mat Company. 575,219, June 2; Serial No. 632,006, published Mar. 10, 1953.

CLASS 51

Face powder, brown skin complexion powder, deodorant powder, etc. The J. R. Watkins Company. 200,685, July 7, 1925; republished June 2.
Face powders, Hinxe Ambrosia, Inc. 305,361, renewed Aug. 15, 1953. O. G. June 2.
Hair and scalp conditioning preparation. Crulan, Inc. 575,129, June 2; Serial No. 617,980, published Mar. 3, 1953.
Hair beautifying cream. Morton Manufacturing Corporation. 301,546, renewed Mar. 7, 1953. O. G. June 2.
Lotion to promote suntan and relieve sunburn. G. L. Nye. 575,150, June 2; Serial No. 621,835, published Nov. 4, 1952.
Perfume, eau de cologne, face creams, etc. Academie Scientifique de Beaute. 575,088, June 2; Serial No. 601,294, published Feb. 17, 1953.
Perfume, eau de cologne, toilet water, etc. Bourjois, Inc. 575,238, June 2; Serial No. 633,647, published Feb. 10, 1953.
Preparations for use in the treatment of hair, preparations for waving and curling the hair. The Wella Corporation. 575,177, June 2; Serial No. 627,415, published Mar. 3, 1953.
Preparations for use in the treatment of hair, preparations for waving and curling the hair. The Wella Corporation. 575,178, June 2; Serial No. 627,416, published Feb. 17, 1953.
Soaps, Toilet, shaving soap sticks, and shaving soap cream. Pinaud, Inc. 305,349, renewed Aug. 15, 1953. O. G. June 2.
Toilet creams, masque preparations, toilet powders, etc. Barbara Gould Inc. 575,234, June 2; Serial No. 633,602, published Feb. 10, 1953.

CLASS 52

Cleanser, Powdered. Purex Corporation, Ltd. 575,340, June 2; Serial No. 629,621.
Composition for cleaning and restoring suede finished materials. R. F. Stearns. 575,329, June 2; Serial No. 622,364.
Compound for use as a motor fuel additive and as a cleaner. The Pennzoil Company. 575,148, June 2; Serial No. 621,633, published Feb. 24, 1953.
Detergent and cleaner, Powdered water softening. Diamond Alkali Company. 575,153, June 2; Serial No. 622,928, published Mar. 10, 1953.
Detergent, Granulated. Colgate-Palmolive-Peet Company. 575,138, June 2; Serial No. 619,566, published Mar. 10, 1953.
Detergent preparation. Buscarlet Glove Company, Inc. 575,179, June 2; Serial No. 627,672, published Mar. 10, 1953.
Face powder, Brown skin complexion powder, deodorant powder, etc. The J. R. Watkins Company. 200,685, July 7, 1925; republished June 2.
Shampoos. J. B. Hockensmith. 575,338, June 2; Serial No. 626,377.
Wax remover or cleaner. Western Chemical Company. 575,100, June 2; Serial No. 628,236, published Mar. 10, 1953.

CLASS 100

Conducting research for its members relating both to their industrial and merchandising problems. Super Market Institute, Inc. 575,356, June 2; Serial No. 601,959.
Engineering service. Drake & Townsend Incorporated. 575,281, June 2; Serial No. 619,193, published Mar. 10, 1953.
Lodging services. Travelodge Corporation. 575,271, June 2; Serial No. 586,501, published Mar. 10, 1953.
Organizing chapters in a national collegiate fraternity maintaining membership therein, etc. Beta Theta Pi. 575,292, June 2; Serial No. 622,425, published Mar. 3, 1953.
Organizing of chapters in a national collegiate fraternity and maintaining membership therein. The Grand Chapter of Phi Sigma Kappa. 575,291, June 2; Serial No. 599,762, published Mar. 10, 1953.
Stimulating and maintaining interest in the baking industry, etc. Allied Trades of the Baking Industry. 575,283, June 2; Serial No. 621,537, published Mar. 10, 1953.

CLASS 101

Management engineering. George H. Elliott & Company. 575,290, June 2; Serial No. 632,421, published Mar. 10, 1953.
Sales promotion of goods and services of subscribers to proprietor's services, etc. Mrs. America, Inc. 575,274, June 2; Serial No. 596,469, published Mar. 10, 1953.

CLASS 102

Banking services. The Lee County Bank. 575,278, June 2; Serial No. 616,714, published Mar. 10, 1953.
Banking services. The National City Bank of New York. 572,272, June 2; Serial No. 587,813, published Mar. 3, 1953.

Insurance brokerage and agency services, General. Ward & Lake, Inc. 575,275–6, June 2; Serial No. 613,430–1, published Mar. 3, 1953.
Real estate brokerage. John R. Taylor. 575,279, June 2; Serial No. 617,268, published Mar. 3, 1953.
Underwriting of insurance against property damage and bodily injury. Mutual Boiler and Machinery Insurance Company. 575,289, June 2; Serial No. 631,491, published Mar. 10, 1953.
Underwriting personal insurance. Connecticut General Life Insurance Company. 575,277, June 2; Serial No. 613,869, published Mar. 3, 1953.

CLASS 103

Dredging and construction and repair services. The Arundel Corporation. 575,282, June 2; Serial No. 620,994, published Mar. 10, 1953.
Masonry waterproofing and weatherproofing services. Western Waterproofing Company. 575,267, June 2; Serial No. 537,113, published June 5, 1951.
Servicing of connection devices—namely, the servicing and repairing of rotary unions and flexible metal hose. Perfecting Service Company. 551,363, Nov. 27, 1951. Corrected O. G. June 2.

CLASS 105

Dry docking of all types and sizes of ships. Todd shipyards Corporation. 575,288, June 2; Serial No. 630,553, published Mar. 3, 1953.
International freight forwarding service. S. A. Innocente Mangili Adriatica Incorporated. 575,287, June 2; Serial No. 628,154, published Mar. 3, 1953.
Leasing of railroad freight and express cars. General American Transportation Corporation. 575,273, June 2; Serial No. 592,899, published Mar. 3, 1953.
Moving of household goods and automobiles by van and the storage of household goods and automobiles. Stevens Brothers. 575,280, June 2; Serial No. 617,323, published Mar. 10, 1953.
Transportation by aircraft. Southwest Airways Company. 575,285, June 2; Serial No. 625,046, published Mar. 3, 1953.

CLASS 106

Bleaching, mercerizing, dyeing, etc., of textile fabrics. Cold Spring Bleachery. 575,284, June 2; Serial No. 625,001, published Mar. 10, 1953.
Fabrication, preparation, and treatment of metals and metal products. Joseph T. Ryerson & Son, Inc. 575,268–9, June 2; Serial No. 564,161–2, published Mar. 10, 1953.

CLASS 107

Health information through the medium of a series of radio programs. The Colorado State Medical Society. 575,286, June 2; Serial No. 625,097, published Mar. 10, 1953.
Instructing students through the medium of home study courses in radio and television theory and techniques. The de Forest-Sanabria Corporation. 575,270, June 2; Serial No. 583,739, published Mar. 10, 1953.

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LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cryder, James W., assignor of one-half to P. E. Cryder, Denver, Colo. Smoker's pipe. Re. 23,663, June 2.
Cryder, Pearl E., assignee: *See*—
Cryder, James W.
Marble, B. L., Chair Company, The, assignee: *See*—
Pettibone, Charles L.
Meredith, Frederick W., Cheltenham, England, assignor to S. Smith & Sons (England) Limited. Electric motor control system. Re. 23,664, June 2.
Pettibone, Charles L., Shaker Heights, assignor to The B. L. Marble Chair Company, Bedford, Ohio. Scuff plate for furniture. Re. 23,665, June 2.
Smith, S., & Sons (England) Limited, assignee: *See*—
Meredith, Frederick W.

LIST OF PLANT PATENTEES

Marsh, Edward E., Pasadena, Calif. Climbing rose plant. 1,191, June 2.

LIST OF DESIGN PATENTEES

Agee, Charles W., assignor to Samuel Stamping & Enameling Company, Chattanooga, Tenn. Stove grid. 169,719, June 2.
American Hospital Supply Corporation, assignee: *See*—
Borin, Harlan F.
American Optical Company, assignee: *See*—
Bauer, Ralph J. T.
Bauer, Ralph J. T., and De Angelis.
American Radiator & Standard Sanitary Corporation, assignee: *See*—
Trout, Harry R., and Hill.
Aper Accessories Co., Inc., assignee: *See*—
Pinson, Alfred.
Apostolescu, Stefan, New York, N. Y. Helicopter. 169,720, June 2.
Bakke, Hans A., Swampscott, Mass., assignor to General Electric Company. Photographic light meter. 169,721, June 2.
Bauer, Ralph J. T., assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 169,722, June 2.
Bauer, Ralph J. T., assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 169,723, June 2.
Bauer, Ralph J. T., and A. De Angelis, assignors to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 169,724, June 2.
Bauer, Ralph J. T., and A. De Angelis, assignors to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 169,725, June 2.
Bell, Louis, Roxbury, Mass. Ear ornament or similar article. 169,726, June 2.
Bell, Louis, Roxbury, Mass. Ear ornament or similar article. 169,727, June 2.
Bonar, William L., Moundsville, W. Va., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy railroad station. 169,728, June 2.
Borin, Harlan F., Chicago, assignor to American Hospital Supply Corporation, Evanston, Ill. Reading and examination lamp. 169,729, June 2.
Breh, Dorothy M., and R. A. Servatius, Syracuse, N. Y. Directional marker for mailboxes. 169,730, June 2.
Camillus Cutlery Company, assignee: *See*—
Wallace, William D.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Corrigan, John T., and P. P. Sherry, Walla Walla, Wash. Airplane. 169,731, June 2.
De Angelis, Armand: *See*—
Bauer, Ralph J. T., and De Angelis.
Dé Caccia, Godfrey L.: *See*—
Fritz, Ralph C., Jr., dé Caccia, and Ratzlaff.
Derby Sealers, Incorporated, assignee: *See*—
Reinecke, Jean O.
Desco Shoe Corp., assignee: *See*—
Diamant, Fred J.
Diamant, Fred J., New York, assignor to Desco Shoe Corp., Long Island City, N. Y. Shoe or the like. 169,732, June 2.
Diamond, Freda, New York, N. Y., and J. E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill. Tumbler. 169,733, June 2.
Diamond, Freda, New York, N. Y., and J. E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill. Tumbler. 169,734, June 2.
Diamond, Freda, New York, N. Y., and J. E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill. Tumbler. 169,735, June 2.
Diamond, Freda, New York, N. Y., and J. E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill. Tumbler. 169,736, June 2.
Diamond, Freda, New York, N. Y., and J. E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill. Tumbler. 169,737, June 2.
Diamond, Freda, New York, N. Y., and J. E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill. Tumbler. 169,738, June 2.
Dietrich, Ralph J., Palm Springs, Calif. Cooking pan lid. 169,739, June 2.
Fisher, Max, Lower Alsace Township, Berks County, Pa. Stocking. 169,740, June 2.
Fisher, Max, Lower Alsace Township, Berks County, Pa. Stocking. 169,741, June 2.
Florian, Gordon W., Fairfield, H. W. Streck, Bridgeport, and W. E. Kelsey, Jr., Fairfield, Conn. Chair. 169,742, June 2.
Fritz, Ralph C., Jr., Van Nuys, G. L. dé Caccia, Culver City, and D. Ratzlaff, Los Angeles, Calif. Stackable tote box. 169,743, June 2.
Frost, John G., Seattle, Wash. Game apparatus. 169,744, June 2.
General Electric Company, assignee: *See*—
Bakke, Hans A.
Kerr, Roger B., and Gianascol.
General Mills, Inc., assignee: *See*—
Schott, Howard H.
Gerett, M. A., Corporation, assignee: *See*—
Maage, Alfred E., Jr.
Gianascol, Frank: *See*—
Kerr, Roger B., and Gianascol.
Giulietti Accordion Corporation, assignee: *See*—
Giulietti, Julio.
Giulietti, Julio, Brooklyn, assignor to Giulietti Accordion Corporation, New York, N. Y. Accordion grill. 169,745, June 2.
Hardy, William H., River Edge, N. J. Handbag. 169,746, June 2.
Hawkins, Lawrence G., London, England. Combined electric kettle and stand. 169,747, June 2.
Hayes, Robert M., Weston, Mass. Safety pin. 169,748, June 2.
Hickman, William P., Bridgeville, Pa., assignor of one-half to R. C. Johnson, Mariemont, Ohio. Finger ring. 169,749, June 2.
Hill, Frederick M.: *See*—
Trout, Harry R., and Hill.
Hinterschied, Martin J., Columbus, Ohio. Ash tray or similar article. 169,750, June 2.
Hirst, Sheldon F., assignee: *See*—
Rasmussen, Randall.

Hirst, Willard J., assignee: *See*—
Rasmussen, Randall.
Holland, Louis E., Lee's Summit, Mo. Massaging machine. 169,751, June 2.
Howell Co., The, assignee: *See*—
Moxley, Murray.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,752, June 2.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,753, June 2.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,754, June 2.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,755, June 2.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,756, June 2.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,757, June 2.
Ischinger, Alfred E., Reading, Pa. Stocking. 169,758, June 2.
Johnson, Russell C., assignee: *See*—
Hickman, William P.
Karoff Originals, Ltd., assignee: *See*—
Karoff, Robert B.
Karoff, Robert B., assignor to Karoff Originals, Ltd., New York, N. Y. Combined food tray and pivoted beverage rack. 169,759, June 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 169,760, June 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,761, June 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,762, June 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,763, June 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,764, June 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 169,765, June 2.
Kelsey, William E., Jr.: *See*—
Florian, Gordon W., Streck, and Kelsey.
Kerr, Roger B., Jamestown, R. I., and F. Gianascol, Lynn, Mass., assignors to General Electric Company. Light meter. 169,766, June 2.
Klein, Edward, assignor to Motorola, Inc., Chicago, Ill. Combination clock and radio. 169,767, June 2.
Kraft Foods Company, assignee: *See*—
Diamond, Freda, and Plummer.
Lansman, Walter, Baroda, and O. R. Siewert, St. Joseph, Mich. Puttying tool. 169,768, June 2.
Lee, Thomas B., Greenwich, Conn. Figurine. 169,769, June 2.
Livingston, Cyril W., New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Stocking. 169,770, June 2.
Livingston, Cyril W., New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Stocking. 169,771, June 2.
Lonberger, Snowden B., Washington, D. C. Finger ash tray. 169,772, June 2.
Maage, Alfred E., Jr., assignor to M. A. Gerett Corporation, Milwaukee, Wis. Coin actuated calendar bank. 169,773, June 2.
Marholz, Richard C., assignor, to Raytheon Television and Radio Corporation, Chicago, Ill. Television front panel unit. 169,774, June 2.
Marx, Louis, & Company, Inc., assignee: *See*—
Bonar, William L.
McMurdo, Hew B., San Francisco, Calif. Eyeshade. 169,776, June 2.
Miller, Beatrice L., Cleveland, and G. Parker, Alliance, assignors to Royal China Inc., Sebring, Ohio. Plate or the like. 169,777, June 2.
Motorola, Inc., assignee: *See*—
Klein, Edward.
Moxley, Murray, Geneva, assignor to The Howell Co., St. Charles, Ill. Serving cart. 169,775, June 2.
Newman, Fred E., Chicago, Ill. Coffee brewer. 169,778, June 2.
Parker, Gordon: *See*—
Miller, Beatrice L., and Parker.
Phillippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishell, Inc., New York, N. Y. Earring or the like. 169,779, June 2.
Phillippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishell, Inc., New York, N. Y. Link chain for a necklace or the like. 169,780, June 2.
Phillippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 169,781, June 2.
Phillippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 169,782, June 2.
Phillips, Kenneth R., Seattle, Wash. Warm air residential furnace. 169,783, June 2.
Pinson, Alfred, Stamford, assignor to Apex Accessories Co., Inc., Greenwich, Conn. Expansible link chain for a wristband or similar article. 169,784, June 2.
Pinson, Alfred, Stamford, assignor to Apex Accessories Co., Inc., Greenwich, Conn. Expansible link chain for a wristband or similar article. 169,785, June 2.
Plummer, James E.: *See*—
Diamond, Freda, and Plummer.
Rabinowitz, Isidor, Philadelphia, Pa. Stocking. 169,786, June 2.
Rasmussen, Nells L., assignee: *See*—
Rasmussen, Randall.
Rasmussen, Randall, assignor of one-sixth to W. J. Hirst, one-sixth to N. L. Rasmussen, Orem, one-sixth to L. M. Wolsey, one-sixth to S. F. Hirst, Provo, and one-sixth to R. J. Wolsey, Springville, Utah. Television cabinet or similar article. 169,787, June 2.
Ratzlaff, Darrell: *See*—
Fritz, Ralph C., Jr., de Caccia, and Ratzlaff.
Raytheon Television and Radio Corporation, assignee: *See*—
Marholz, Richard C.
Reinecke, Jean O., Oak Park, Ill., assignor to Derby Sealers, Incorporated, Derby, Conn. Tape dispenser or similar article. 169,788, June 2.
Reinecke, Jean O., Oak Park, Ill., assignor to Derby Sealers, Incorporated, Derby, Conn. Tape dispenser or similar article. 169,789, June 2.
Roberts, John, Honolulu, Hawaii. Lamp base. 169,790, June 2.
Royal China Inc., assignee: *See*—
Miller, Beatrice L., and Parker.
Samuel Stamping & Enameling Company, assignee: *See*—
Agee, Charles W.
Sanson Hosiery Mills, Inc., assignee: *See*—
Livingston, Cyril W.
Schott, Howard H., St. Paul, Minn., assignor to General Mills, Inc. Household food mixer. 169,791, June 2.
Servatius, Richard A.: *See*—
Breh, Dorothy M., and Servatius.
Sherry, Peter P.: *See*—
Corrigan, John T., and Sherry.
Sieling, Edward H., Chicago, Ill. Liquid dispenser. 169,793, June 2.
Siewert, Oliver R.: *See*—
Lausman, Walter, and Siewert.
Sklavenitis, William, Geneva, Ill. Comb. 169,792, June 2.
Streck, Harry W.: *See*—
Florian, Gordon W., Streck, and Kelsey.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Trout, Harry R., and F. M. Hill, assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Cabinet table. 169,794, June 2.
Trout, Harry R., and F. M. Hill, assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Wall cabinet. 169,795, June 2.
Virneburg, George, New York, N. Y. Sponge cleaner or the like. 169,796, June 2.
Wallace, William D., Syracuse, assignor to Camillus Cutlery Company, Camillus, N. Y. Knife. 169,797, June 2.
Wolsey, Louis M., assignee: *See*—
Rasmussen, Randall.
Wolsey, Rex J., assignee: *See*—
Rasmussen, Randall.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Samuel L., Wilton, N. H. Slub catcher. 2,640,252, June 2.
Abel, William E., Great Falls, Mont. Disk valve pulse jet engine. 2,640,314, June 2.
Abitz, Melvin E., Chicago, Ill. Automatic station-to-station delivery conveyer means. 2,640,581, June 2.
Actrol, Inc., assignee: *See*—
De Neergaard, Leif E.
Adams, Soren S., Asbury Park, N. J. Explosive fountain pen. 2,640,297, June 2.
Adlake Company, The, assignee: *See*—
Pressnall, Charles A.
Aerovox Corporation, assignee: *See*—
Kohring, Wilbur M.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Carson, John F.
Aigrain, Pierre R., New York, N. Y., and J.-B. Lair, Nutley, N. J., assignors to International Standard Electric Corporation, New York, N. Y. Speech communication system. 2,640,880, June 2.
Aircall, Inc., assignee: *See*—
Hicks, Walter R.
Air Reduction Company, Incorporated, assignee: *See*—
Seitz, Rudolph O.
Aktiebolaget Elektrolux, assignee: *See*—
Bäckström, Sigurd M.
Aktiebolaget Separator, assignee: *See*—
Erling, Sven J.
Aladdin Industries, Incorporated, assignee: *See*—
Berge, Godshalk.
Alco Valve Company, assignee: *See*—
Kounovsky, Edward F.
Aldeborgh, Erik H., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y. Locking means for snap gauge measuring pins. 2,640,270, June 2.
Allegheny Ludlum Steel Corporation, assignee: *See*—
Herres, Schuyler A.
Pitler, Richard K.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Journeaux, Didier.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Sörensen, Harold M., and Forssell.
All Star Products, Inc., assignee: *See*—
Ingle, Donald P.
Alsing, Carl F., Wilbraham, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dual evaporator refrigeration apparatus. 2,640,327, June 2.
Altheide, Kenneth G., Quincy, Ill. Variable pitch hydraulic transmission. 2,640,680, June 2.
American Can Company, assignee: *See*—
Chatterton, Robert T.
Nordquist, Ronald E. J.
Stone, George M.
American Car and Foundry Company, assignee: *See*—
Clewell, William H.
Pancake, Herman H.
American Cyanamid Company, assignee: *See*—
Bergmann, Werner.
Burkhart, Robert L., and Vance, Fang, James C.-S., and Bergmann.
Schmutzler, Alfred F.
Serrato, Joseph.
Weidenheimer, Joseph F., Reed, Ritter, and Upham.
American Flexible Coupling Company, assignee: *See*—
Shenk, Robert H.
American Optical Company, assignee: *See*—
Conley, Thomas A.
Sheard, Samuel T., and Rowe.
American Steel Foundries, assignee: *See*—
Kayler, Frank H.
American Sugar Refining Company, The, assignee: *See*—
Cantor, Sidney M.
Liggett, Robert W., and Wimmer, Miller, Robert E.
American Tool Works Company, The, assignee: *See*—
Hoelscher, William G.
American Viscose Corporation, assignee: *See*—
Roberts, Ingham S.
Yehling, George C., Jr.
Ames, Enos R., O. H. Thomas, W. H. O'Neal, and F. P. Sword, Wichita, Kans. Hook setter for fishing tackle. 2,640,290, June 2.
Anderson, Charles C.: *See*—
Wheatley, John B., Gaubatz, and Anderson.
Anderson, Hugo F.: *See*—
Phillips, Harold P., and Anderson.
Anderson, Karl R.: *See*—
McClelland, Arthur H., and Anderson.
Andresen, Hilmar A., Chicago, Ill. Fluid translating device. 2,640,678, June 2.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Porter, Frederick W. B., and Northcott.
Anthracite Equipment Corporation, assignee: *See*—
Johnson, Raymond C., and Tyrell.
Apex Machine & Tool Company, The, assignee: *See*—
Frank Walter N.
Appleton Electric Company, assignee: *See*—
Tornblom, Nils A.
Appuhn, Klaus, Vina Del Mar, assignor to Compañía Industrial, Valparaiso, Chile, Manufacture of odorless soap from low grade oils and fats. 2,640,840, June 2.
Arel, Theophile T., Marietta, Calif. Trap-nest gate. 2,640,220, June 2.
Aries, Robert S., and A. Pollak, New York, N. Y. Ozodizing sodium sulfide to sodium sulfite in successive stages. 2,640,758, June 2.
Armacost, Wilbur H., Scarsdale, N. Y., assignor to Combustion Engineering-Superheater, Inc. Superheat control. 2,640,468, June 2.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Ellis, Grenville B.
Fischbach, Adolph, and Hochberg.
Hohwieler, William U.
MacGlashan, William F., Jr.
Pigford, Robert L.
Reed, Buckley R.
Simpson, Frank R.
Arthur, John M., Yonkers, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc. Plant fertiliser. 2,640,772, June 2.
Arvin Industries, Inc., assignee: *See*—
Farr, Edward A.
Ashford, Leonard F., Philadelphia, Pa. Pallet. 2,640,669, June 2.
Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sole sewing machine. 2,640,449, June 2.
Aske, Leonard E., and J. A. Thayer, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature responsive control. 2,640,902, June 2.
Atkins, Victor K., Seattle, assignor to Pacific Car and Foundry Company, Renton, Wash. Flexible diaphragm for fluid clutches. 2,640,409, June 2.
Atmos Corporation, assignee: *See*—
Jensen, Charles H.
Auñero, John M., Plandome, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Automobile heater. 2,640,407, June 2.
Auler, Harold F., and E. E. Kohls, Milwaukee, Wis.; said Kohls assignor to said Auler. Timer for model airplanes. 2,640,295, June 2.
Auten, Robert W.: *See*—
Hurwitz, Melvin D., and Auten.
Autogiro Company of America, assignee: *See*—
Campbell, Harris S.
Automatic Temperature Control Co., Inc., assignee: *See*—
Macgeorge, William D.
Macgeorge, William D., and Cross.
Babitch, Abraham M., Flint, assignor to General Motors Corporation, Detroit, Mich. Fuel pump. 2,640,424, June 2.
Bach, Emmon: *See*—
De Florez, Luis, Gore, and Bach.
Bäckström, Sigurd M., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration. 2,640,331, June 2.
Bacchie, Walter, assignor to The J. H. Day Company, Cincinnati, Ohio. Machine for loading baking pans. 2,640,637, June 2.
Bailey, Bradford E., Elizabeth, N. J. Quick-freezing foodstuffs. 2,640,333, June 2.
Bailey Meter Company, assignee: *See*—
Shannon, Jack F.
Bailey, Robert S.: *See*—
Phinney, Edward D., and Bailey.
Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C.
Baker, Reuben C., and Ragan.
Childers, Roscoe O.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Los Angeles, Calif. Casing centralizer. 2,640,544, June 2.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Apparatus for operating tools in well bores. 2,640,546, June 2.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Dump bailer. 2,640,548, June 2.

Baker, Reuben C., Coalinga, and T. M. Ragan, Downey, assignors to Baker Oil Tools, Inc., Vernon, Calif. Gas-operated well apparatus. 2,640,547, June 2.

Ball, Wayne H.: *See*—
Buck, Robert J., and Ball.

Ballard, Seaver A.: *See*—
Whetatone, Richard R., and Ballard.

Baltimore Paper Company, assignee: *See*—
Winkler, Richard, and Dünnebier.

Barber-Colman Company, assignee: *See*—
Sweger, Russell P.

Barber, Edwin J., Newport, assignor to Hercules Powder Company, Wilmington, Del. Coated paper and making same. 2,640,790, June 2.

Barber, Edwin J., Newport, assignor to Hercules Powder Company, Wilmington, Del. Coated paper. 2,640,791, June 2.

Barrett, Gerald R., Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polymerizing styrene and maleic compounds. 2,640,819, June 2.

Barry, Leonard D., Detroit, Mich. Portable hoist. 2,640,612, June 2.

Basic Refractories, Incorporated, assignee: *See*—
Hughey, Vaughn V.

Batt, Thomas H., Toronto, Ontario, Canada. Cigarette lighter. 2,640,340, June 2.

Baxter, Harry, Garretsville, Ohio. Electromagnetically controlled valves. 2,640,495, June 2.

Bean, Arthur L., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Contour measuring apparatus. 2,640,272, June 2.

Beaverbrook Moulding Company, The, assignee: *See*—
Thomson, John C.

Beck, Roland A., Fishkill, and E. E. Senael, Beacon, assignors to The Texas Company, New York, N. Y. Hydrocarbon synthesis. 2,640,845, June 2.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Furniture glider. 2,640,219, June 2.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener assembly. 2,640,244, June 2.

Becker, Philip D., Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Mounting of threaded fastening devices. 2,640,245, June 2.

Bewar, Rudolph A., Berwyn, Ill., assignor to Motorola, Inc. Record changer mechanism. 2,640,704, June 2.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Supporting device. 2,640,672, June 2.

Beldin, Royal L.: *See*—
Roscoe, Merrill W., and Beldin.

Bell, James, Pinner, assignor to The M-O Valve Company Limited, London, England. Ultrahigh-frequency thermionic valve. 2,640,946, June 2.

Bell, John F., Glenview, and R. M. Nordby, Skokie, Ill., assignors to Zenith Radio Corporation. Wave signal frequency-changing system with constant current biased frequency changing device. 2,640,919, June 2.

Bemis Bro. Bag Co., assignee: *See*—,
Stange, Delmar.

Bendix Aviation Corporation, assignee: *See*—
Dickey, John W.
Gilbert, Samuel, and Metsger.
Murphy, Norman B.
Troeger, Henry.

Bennett, Arthur E. C., Kenton, England, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. High-frequency electric potential divider. 2,640,940, June 2.

Benson, Merle K., Belmont, Mich. Cutter mechanism for mowing machines. 2,640,309, June 2.

Beretvas, Helen S., assignor to Standard Oil Company, Chicago, Ill. Demulsifiable lubricant compositions. 2,640,811, June 2.

Bergami, Casto E., Milan, Italy. Machine for making foundry molds. 2,640,234, June 2.

Berge, Godshalk, assignor to Aladdin Industries, Incorporated, Chicago, Ill. Reaction product of a mixed ferrite and lead titanate. 2,640,813, June 2.

Berger, Jacob, Chicago, Ill. Car defrosting unit. 2,640,231, June 2.

Berghorn, Fred W., Rutherford, N. J. Roughening tool for walls of cylindrical finger-gripping holes of bowling balls. 2,640,518, June 2.

Bergmann, Werner: *See*—
Fang, James C.-S., and Bergmann.

Bergmann, Werner, New Haven, Conn., assignor to American Cyanamid Company, New York, N. Y. Producing Pechmann dye. 2,640,836, June 2.

Berkman, Herbert A., Chicago, Ill., assignor to Zim Manufacturing Company. Can opener. 2,640,257, June 2.

Bernegger, Rolf, Hawthorne, assignor to Cliffside Dyeing Corp., Paterson, N. J. Testing apparatus for testing the fading characteristics of textile material. 2,640,354, June 2.

Bernstein, Isidor M.: *See*—
Zottlemoyer, Albert C., and Bernstein.

Bertell, Paul, Kenmore, and L. C. Meade, assignors to Standard Mirror Company, Buffalo, N. Y. Rear-vision mirror. 2,640,394, June 2.

Bertolet, Elmer C., Jr., Lititz, Pa., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Friction element and forming same. 2,640,795, June 2.

Bicknell, George M., assignor to Carter Carburetor Corporation, St. Louis, Mo. Multibarrel carburetor. 2,640,472, June 2.

Bigelow, Arthur L., Euclid, Ohio. Tube coupling. 2,640,716, June 2.

Biko, Theodore R., and D. S. Deutsch, Los Angeles, Calif. Film attaching means for reels. 2,640,659, June 2.

Binder, William O., Niagara Falls, N. Y., assignor to Union Carbide and Carbon Corporation. Inert monatomic-gas shielded refractory metal remelting surface-defect removal process. 2,640,792, June 2.

Bishop, Peter H. H.: *See*—
Evans, Cyril O., and Bishop.

Bissell, Harry G., assignor to Jordan Regulator Corporation, Lebanon, Ohio. Diaphragm actuated balanced gate type pressure regulator. 2,640,498, June 2.

Bjork, Carold F., Luke, Md., and M. F. Bondy, Watertown, Mass., assignors to the United States of America as represented by the Secretary of War. Ignition safety device for induction fired rockets. 2,640,417, June 2.

Bjorksten, Johan: *See*—
Sheridan, Eleanor G., Yaeger, and Bjorksten.

Blanchard, Floyd W., Camas, Wash. Closure cap retainer. 2,640,625, June 2.

Blanchard, William A., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Chain drive for loom shedding mechanism. 2,640,504, June 2.

Blattner, Emil H., Rochester, assignor to The Symington-Gould Corportion, Depew, N. Y. Journal box lid. 2,640,738, June 2.

Blease, Malcolm T.: *See*—
Litterio, Virgy E., and Blease.

Blissel, John J.: *See*—
Magram, Sidney J., and Blissel.

Bloch, Alfred: *See*—
Davis, Herbert L., and Bloch.

Bloch, Herman S., Chicago, and A. E. Hoffman, Clarendon Hills, assignors to Universal Oil Products Company, Chicago, Ill. Printing ink containing a polymerized olefin. 2,640,782, June 2.

Blum, Joseph K., Scarsdale, assignor to Burnwell Incinerator Corporation, New York, N. Y. Fine-unblocking and safety system for incinerators. 2,640,447, June 2.

Bodenhoff, George R., assignor to A. M. Golubich, Cleveland, Ohio. Lap table. 2,640,747, June 2.

Boeing Airplane Company, assignee: *See*—
Millard, Mark F.

Boland, Calvin E., Visalia, Calif. Machine for cleaning paintbrushes, including liquid tanks and brush holders thereabove. 2,640,489, June 2.

Bonardi, Giusto F.: *See*—
Freedman, Samuel, and Bonardi.

Bondy, Michael F.: *See*—
Bjork, Carold F., and Bondy.

Bone Tool & Gauge Company, assignee: *See*—
Roberts, William C.

Booth, James H., Venice Township, Shiawassee County, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Steering arm and ball joint assembly. 2,640,713, June 2.

Borgelt, Victor H., Wisner, Nebr. Latch mechanism for scoops. 2,640,614, June 2.

Borsini, Frederick H., assignor to W. H. McGhee, Dayton, Ohio. Fountain toothbrush. 2,640,215, June 2.

Boswan, Hans P., Dundee, Ill. Impulse-responsive stepping device actuated by magnetic torque. 2,640,895, June 2.

Boucher, Frank G., Tulsa, Okla., assignor to Standard Oil Development Company. Well logging method and apparatus. 2,640,271, June 2.

Boucher, Frank G., Tulsa, Okla., assignor to Standard Oil Development Company. Oriented dip and strike indicator for boreholes. 2,640,275, June 2.

Bowen, Earl M., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Automatic transfer machine tool. 2,640,254, June 2.

Bowen, William S., Westfield, N. J., and J. E. Viscardi, New York, N. Y. Reaction furnace and evaporator. 2,640,532, June 2.

Boyce Thompson Institute for Plant Research, Inc., assignee: *See*—
Arthur, John M.

Boyer, Floyd J., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Fuel system. 2,640,423, June 2.

Boysen, Willard P., Winnetka, Ill. Packing strip. 2,640,794, June 2.

Bradley, Earl L.: *See*—
Foster, Thomas W., Schek, and Bradley.

Brennan, Joseph B., Cleveland, Ohio. Loud-speaker diaphragm and mounting. 2,640,556, June 2.

Brennan, Joseph B., Cleveland, Ohio. Storage battery. 2,640,865, June 2.

Bricker, George D., Des Moines, Iowa. Eyeshade. 2,640,195, June 2.

Briggs Manufacturing Co., assignee: *See*—
Hosking, Thomas W.
Lauer, Rodney E., and Doty.

Briscoe, Ernest V., Kerman, Calif. Ditch cleaner and ridger. 2,640,286, June 2.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Hafner, Raoul.

Broberg, Elmer E.: *See*—
Larson, Walter G., and Broberg.

Broberg, Fred E., Racine, Wis. Butcher block refinishing machine. 2,640,514, June 2.

Brooks, Lorimer P.: *See*—
Stokes, Irving, and Brooks.

Brown, Abner E., Richmond Heights, Mo. Handle construction for cartons and the like. 2,640,648, June 2.

Brown, Charles H., Breckenridge, Tex. Implement tool bar clamp. 2,640,718, June 2.

Brown, Curtis, Kentland, Ind. Vehicle door latch. 2,640,720, June 2.

Brown Fintube Company, assignee: *See*—
Brown, John W., Jr.

Brown, John W., Jr., Lakewood, assignor to Brown Fintube Company, Elyria, Ohio. Heat exchange type of tank heater. 2,640,686, June 2.

Brown, Luther E., Greggton, and O. W. Williams, Houston, Tex. Sidewall sample taking device. 2,640,542, June 2.

Brown, Ruth, New York, N. Y. Sanitary bandage. 2,640,483, June 2.

Brown, Walter J., Cleveland Heights, Ohio. Motor control circuit. 2,640,959, June 2.

Bruestle, William P.: *See*—
Rechtin, Clarence R., and Bruestle.

Bryant, Edmond V., Parma, Ohio. Baby cup. 2,640,337, June 2.

Bryant, William C., Garfield, N. J., assignor to Swan-Finch Oil Corporation, New York, N. Y. Grease. 2,640,812, June 2.

Bub, Robert A.: *See*—
Lewis, John M., and Bub.

Buchanan, Lloyd W., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Single phase capacitor motor. 2,640,956, June 2.

Bucher, Francis X.: *See*—
Lundburg, Frank J., and Bucher.

Buchner, Robert B., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Marker control arrangement for selectors. 2,640,883, June 2.

Buck, Robert J., and W. H. Ball, Steubenville, Ohio. Adjustable mounting for distributor breaker points. 2,640,801, June 2.

Buckley, Gerard D., and N. H. Ray, Northwich, England, assignors to Imperial Chemical Industries Limited. Reaction of carbon monoxide and hydrasine. 2,640,831, June 2.

Buffalo Forge Company, assignee: *See*—
Yates, Arthur T.

Bureau, Achille G., Forest Hills, assignor to J. A. Cahil, doing business as Cahil Manufacturing Company, New York, N. Y. Can opener bracket. 2,640,673, June 2.

Burke, Wilbur B., East Cleveland, Ohio. Window structure. 2,640,568, June 2.

Burkhart, Robert L., Pearl River, N. Y., and J. J. Vance, Park Ridge, N. J., assignors to American Cyanamid Company, New York, N. Y. Aureomycin ointment. 2,640,801, June 2.

Burnham, Virgil A., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Mechanism for drafting rayon tow. 2,640,228, June 2.

Burns, William E.: *See*—
Knapp, George P., Burns, Robbins, and Zwack.

Burnwell Incinerator Corporation, assignee: *See*—
Blum, Joseph K.

Burrill, Ernest A., Natick, assignor to High Voltage Engineering Corporation, Cambridge, Mass. Apparatus for utilizing a beam of high energy electrons in sterilization and in therapy. 2,640,948, June 2.

Burwell, Orlo R., Truth or Consequences, N. Mex. Controlled temperature vapor-bath cabinet. 2,640,201, June 2.

Byford, Burnard W., McGregor, Tex. Automobile seat article holder. 2,640,595, June 2.

C. A. V. Limited, assignee: *See*—
Evans, Fraser M., and Nicolls.
Murraszew, Alexander.

C. D. Patents Limited, assignee: *See*—
Greaves, Charles D., and Parker.

Cahil, Joseph A.: *See*—
Bureau, Achille G.

Cahil Manufacturing Company, assignee: *See*—
Bureau, Achille G.

Cairns, Fred E., Jr., North Hollywood, assignor to General Controls Co., Glendale, Calif. Safety fuel burner control system utilizing flame conduction. 2,640,920, June 2.

Caldwell, Smith C., Livingston, Mont. Dislodging tool for pneumatic tires. 2,640,528, June 2.

California Spray-Chemical Corporation, assignee: *See*—
Shatto, David L.

Campbell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Mechanism for controlling blade movements of aircraft sustaining rotors. 2,640,554, June 2.

Campbell, Kenneth N., South Bend, Ind., and G. E. Ullyot, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. N,N-disubstituted, β-haloethylamines. 2,640,828, June 2.

Canada Packers Limited, assignee: *See*—
Force, Leonard T., Moore, and Hincks.

Cantor, Sidney M., Overbrook Hills, Pa., assignor to The American Sugar Refining Company, New York, N. Y. Recovery of aconitic acid from its alkaline earth salts. 2,640,852, June 2.

Caputo, James V., Youngstown, Ohio, and T. J. Crawford, Berkley, Mich., said Crawford assignor to said Caputo. Homopolar dynamoelectric machine. 2,640,942, June 2.

Carbary, Edward M., South Acton, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Electrical device. 2,640,871, June 2.

Cardwell, Paul H., and C. L. Lunsford, Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich. Treatment of wells. 2,640,810, June 2.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Starting system for gas turbine engines, using multiple fuel pumps. 2,640,318, June 2.

Carlson, Emil, Maspeth, N. Y. Percussion musical instrument. 2,640,385, June 2.

Carpenter Container Corporation, assignee: *See*—
Carpenter, Herbert L.

Carpenter, Herbert L., Amityville, assignor to Carpenter Container Corporation, Brooklyn, N. Y. Apparatus for bending metal rims around containers. 2,640,524, June 2.

Carr, Robert S., Maplewood, assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J. Tube winding machine. 2,640,451, June 2.

Carroll, Burt H.: *See*—
Spence, John, and Carroll.

Carson, John F., Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Production of hexahydrolupulon and the salts thereof. 2,640,856, June 11.

Carter Carburetor Corporation, assignee: *See*—
Bicknell, George M.

Carter, Harry R., Larchmont, N. Y. Traffic violation indicating system for motor vehicles. 2,640,979, June 2.

Carter, Moffett, Berkeley, Calif. Directional indicator. 2,640,972, June 2.

Casabona, Anthony M., Hawthorne, assignor to International Standard Electric Corporation, New York, N. Y. Pulse navaglide system. 2,640,982, June 2.

Case, J. I., Company, assignee: *See*—
Kranick, Frank N. G.

Cataldo, John B., Bernardsville, and A. N. Cook, Stirling, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Thermostat device. 2,640,896, June 2.

Celanese Corporation of America, assignee: *See*—
MacLean, Alexander F., and Stautzenberger.

Cerrella, Vicente, Buenos Aires, Argentina. Parachute. 2,640,666, June 2.

Chambers, Worthy L.: *See*—
Eck, Floyd R., and Chambers.

Champion De Armeut Tool Company, assignee: *See*—
Manning, Howard H.

Chance, A. B., Company, assignee: *See*—
Harper, James K.

Chappelle, Homer T., Mineola, Tex. Expansible chamber device. 2,640,432, June 2.

Charvát, Bohumil, Semimovo Ustí, assignor to Svit, národní podnik, Gottwaldov, Czechoslovakia. Double cylinder circular knitting machine provided with a noiseless coupling. 2,640,338, June 2.

Chase, Robert K., Rochester, N. Y. Cylinder top oiler. 2,640,475, June 2.

Chatterton, Robert T., Wappingers Falls, assignor to American Can Company, New York, N. Y. Magnetic stacking mechanism. 2,640,605, June 2.

Cherry, Walter L., Jr., Northbrook, Ill., assignor to Zenith Radio Corporation. Piezoelectric transducer. 2,640,889, June 2.

Chicago Metal Hose Corporation, assignee: *See*—
Fentress, David W.

Childers, Roscoe O., Norman, Okla., assignor to Baker Oil Tools, Inc., Vernon, Calif. Hydraulically operable valve controlled well tool. 2,640,543, June 2.

Childs, John C., New Rochelle, N. Y. Antigyration selector switch for rotary wing aircraft. 2,640,892, June 2.

Chillson, Charles W., Caldwell, N. J., assignor to Curtiss-Wright Corporation. Propeller pitch change mechanism. 2,640,552, June 2.

Chrysler Corporation, assignee: *See*—
Dysarz, Charles E.
Jackson, Clifford C.
Jandasek, Joseph.
Niven, Archie M.
Slack, Frederic W.

Chubb, Melvin F., Joplin, Mo., assignor to The Eagle-Picher Company, Cincinnati, Ohio. Battery pigment. 2,640,862, June 2.

Ciba Pharmaceutical Products, Inc., assignee: *See*— Druey, Jean, and Schmidt.

Claesson, Per H. E., Jakobsberg, and K. L. Johansson, Grondal, Sweden. Capacity actuated burglar alarm. 2,640,978, June 2.

Clark Equipment Company, assignee: *See*— Turner, George L.

Clark, John R.: *See*— Oman, Carl, and Clark.

Clark, Keadall, Oakwood, Ohio. Gun training mechanism. 2,640,395, June 2.

Clarke, John S., Blacko, near Nelson, assignor to Joseph Lucas Limited, Birmingham, England. Liquid fuel burner and combustion apparatus. 2,640,320, June 2.

Clarke Sanding Machine Company, assignee: *See*— Petersen, William L.

Clauser, Herbert C., and R. S. Long, assignors, by mesne assignments, to Kilgore Inc., Westerville, Ohio. Producing fusee compositions. 2,640,771, June 2.

Clayton, Benjamin, assignee: *See*— Mattikow, Morris.

Clayton, David P.: *See*— Falge, Robert N., and Clayton.

Cleaver, Richard F., and T. D. Gray, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric signal modulator. 2,640,973, June 2.

Clements, Howard E., Webster Groves, assignor to James R. Kearney Corporation, St. Louis, Mo. Insulator combined with live line links. 2,640,867, June 2.

Clements, MacMillan, Bethal, Conn. Container or clothes locker. 2,640,616, June 2.

Cleveland Universal Jig Company, The, assignee: *See*— Verderber, Joseph.

Clewell, William H., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Door closing device. 2,640,609, June 2.

Cliffside Dyeing Corp., assignee: *See*— Bernegger, Rolf.

Cloudsley, John L., Radnage, England. Fluid pressure relieving apparatus. 2,640,564, June 2.

Cobb, Clifton A., University City, assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Temperature responsive control. 2,640,313, June 2.

Colfing, Fredrick W., Danville, Ill. Collapsible supporting frame. 2,640,534, June 2.

Colgate-Palmolive-Peet Company, assignee: *See*— McNeill, Oxford D.

Colonna, Jerome J., Chicago, Ill. Rope clamp. 2,640,240, June 2.

Colt's Manufacturing Company, assignee: *See*— Lewis, Charles R., and Taggart.

Columbia Broadcasting System, Inc., assignee: *See*— Rockett, John F., Jr.

Combined Optical Industries Limited, assignee: *See*— Johnson, John.

Combs, Edward E., Albany, Calif. Phonograph pickup. 2,640,888, June 2.

Combustion Engineering-Superheater, Inc., assignee: *See*— Armacost, Wilbur H.

Commercial Decal, Inc., assignee: *See*— Sias, Arthur C.

Commercial Solvents Corporation, assignee: *See*— Tindall, John B.

Commonwealth Engineering Company of Ohio, The, assignee: *See*— Crosby, Melvin A.

Commonwealth Scientific and Industrial Research Organization, assignee: *See*— Hatt, Harold H., Strasser, and Troyahn.

Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, assignee: *See*— Jourdain, André P.

Compañía Industrial, assignee: *See*— Appuhn, Klaus.

Comstock, Alfred E., Palmer, Mass., assignor to Shellmar Products Corporation, Chicago, Ill. Molded pulp carton press. 2,640,401, June 2.

Comstock, Alfred E., Palmer, Mass., assignor to Shellmar Products Corporation, Chicago, Ill. Molded pulp carton press. 2,640,402, June 2.

Conley, Thomas A., Harrisville, R. I., assignor to American Optical Company, Southbridge, Mass. Exhalation valve. 2,640,481, June 2.

Connor, W. B., Engineering Corp., assignee: *See*— Dauphinee, George S.

Consoletti, Paul C., Milford, assignor to Draper Corporation, Hopedale, Mass. Harness frame suspending device. 2,640,506, June 2.

Consolidated Vultee Aircraft Corporation, assignee: *See*— Gibb, Harold A.

Container Corporation of America, assignee: *See*— Foster, Thomas W., Schek, and Bradley.

Continental Foundry & Machine Company, assignee: *See*— Howse, Curtis L.

Converto Mfg. Co., Inc., assignee: *See*— Kuster, Harry B.

Cook, Albert N.: *See*— Cataldo, John B., and Cook.

Cook, Ira A., Westminster, Calif. Mouse and rat trap. 2,640,293, June 2.

Cook, Leslie J., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Electron source. 2,640,949, June 2.

Cook, Leslie J., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Point electron source. 2,640,950, June 2.

Cordis, C. N., assignee: *See*— Kitson, Gerald L.

Corinth Machinery Co., assignee: *See*— Watson, William H., and Nelson.

Cornell-Dubilier Electric Corporation, assignee: *See*— Bennett, Arthur E. C.

Cory Corporation, assignee: *See*— Jones, Charles E.

Cotter, George L., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure brake apparatus. 2,640,733, June 2.

Cox, John W., assignor to Shellmar Products Corporation, Chicago, Ill. Article separating mechanism. 2,640,606, June 2.

Coyle, William J., Waltham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lamp socket. 2,640,969, June 2.

Craven, Ella, administratrix: *See*— Craven, Rankin E.

Craven, Rankin E., deceased, Whittier, Calif.; E. Craven, administratrix. Valve and seat for slush pumps. 2,640,677, June 2.

Craver, John K., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Stabilized cellulose ester compositions. 2,640,785, June 2.

Crawford, Thomas J.: *See*— Caputo, James V., and Crawford.

Crompton & Knowles Loom Works, assignee: *See*— Blanchard, William A.

Crosby, Melvin A., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Apparatus for continuous gauging. 2,640,274, June 2.

Cross, Charles: *See*— Macgeorge, William D., and Cross.

Crowley-Milling, Michael C.: *See*— Miller, Charles W., Saxon, and Crowley-Milling.

Cube Steak Machine Co., assignee: *See*— Spang, William F.

Curley, Todd M., Mahanoy City, Pa. Tire and wheel handling and stripping machine. 2,640,604, June 2.

Curtiss-Wright Corporation, assignee: *See*— Chilson, Charles W. Cushman, Maurice E. Knapp, George P., Burns, Robbins, and Zwack.

Cushman, Maurice E., Verona, N. J., assignor to Curtiss-Wright Corporation. Hydraulic propeller pitch-changing system. 2,640,555, June 2.

Cutler, Edmond C., Walpole, N. H. Sleeping equipment for use in combination with motor vehicles of the pleasure type. 2,640,204, June 2.

Dadlow, Ida B., assignee: *See*— Dadlow, Leo W.

Dadlow, Leo W., assignor of fifty per cent to I. B. Dadlow, La Porte, Ind. Nonroosting lid for nests. 2,640,461, June 2.

Dale, Elmer O., Waukesha, Wis., assignor, by mesne assignments, to Gar Wood Industries, Incorporated. Standardized dump body assembly. 2,640,725, June 2.

Daubenspeck, Henry C., assignee: *See*— Winder, Samuel E.

Dauphinee, George S., Brooklyn, assignor to W. B. Connor Engineering Corp., New York, N. Y. Air purifying and circulating device. 2,640,558, June 2.

Davis, Charles C., Los Angeles, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic transducer head. 2,640,886, June 2.

Davis, Herbert L., and A. Bloch, Highland Park, N. J., assignors to Ethicon Suture Laboratories Incorporated. Making sutures. 2,640,752, June 2.

Davis, Richard A., Miami Beach, Fla. Moisture controlled motor system for closing automobile windows. 2,640,958, June 2.

Day, J. H., Company, The, assignee: *See*— Baechle, Walter. Rechtin, Clarence R., and Bruestle.

De Burgh, Albert R., Redondo Beach, Calif. Conveyer system. 2,640,580, June 2.

De Burgh, Albert R., Redondo Beach, Calif. Multiple cycle conveyer. 2,640,607, June 2.

Deere & Company, assignee: *See*— Roscoe, Merrill W., and Beldin. Schofield, Keith R. Heinje, Robert F.

De Florez Company, Inc., The, assignee: *See*— De Florez, Luis, Gore, and Bach. De Florez, Luis, and Linderman.

De Florez, Luis, Pomfret, Conn., and G. B. Linderman, Jr., Washington, D. C., assignors, by mesne assignments, to The de Florez Company, Inc. Apparatus for applying jackets to books. 2,640,207, June 2.

De Florez, Luis, Pomfret, Conn., O. L. Gore, Douglaston, and E. Bach, Scarborough, N. Y., assignors, by mesne assignments, to The de Florez Company, Inc. Method and apparatus for building in the cases of books. 2,640,208, June 2.

De Giers, Clarence A., Forest Hills, assignor to The Liquidometer Corporation, Long Island City, N. Y. Indicating instrument with geared pointer and pointer stop therefor. 2,640,456, June 2.

De Laval Steam Turbine Company, assignee: *See*— Sennet, Morgan B.

De Mello, Ruben, Sao Paulo, Brazil. Apparatus for manufacture of corrugated plywood. 2,640,517, June 2.

De Neergaard, Leif E., Buffalo, assignor to Actrol, Inc., Tuckahoe, N. Y. Frequency generator for machine control systems. 2,640,938, June 2.

Dennington, Dan J., Jr., Texarkana, Tex. Coupling. 2,640,719, June 2.

Detroit Harvester Company, assignee: *See*— McLeod, Stewart B. Preble, Norman H., and Goss. Votypka, John W.

Deutsch, Daniel S.: *See*— Biko, Theodore R., and Deutsch.

Devaux, Lucien, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Facsimile telegraph transmitter. 2,640,875, June 2.

Dewhirst, Dr. Paul A., assignee: *See*— MacBain, Donald K.

Diamond Alkali Company, assignee: *See*— Knuth, Emil H.

Diamond, Emanuel, Philadelphia, Pa., assignor of one-half to C. Frankford, Havertown, Pa. Umbrella construction. 2,640,450, June 2.

Dickey, John W., Newfield, N. Y., assignor to Bendix Aviation Corporation. Switch actuating mechanism. 2,640,899, June 2.

Diehl, Elias S., Bedford, Pa. Stone gathering machine. 2,640,306, June 2.

Dieterich, Adolph, Brooklyn, N. Y. E-Z feeding baby spoon for liquid or medicines. 2,640,263, June 2.

Di Giorgio, Philip A., Schenectady, N. Y., now by change of name P. D. George, assignor to General Electric Company. Thienyl-substituted polysiloxanes. 2,640,818, June 2.

Di Giorgio, Philip A., Schenectady, N. Y., now by change of name P. D. George, assignor to General Electric Company. Organosilicon composition. 2,640,833, June 2.

Dodge, Adiel Y., Rockford, Ill. Control means for automotive vehicles. 2,640,372, June 2.

Doelter, Gandolph C., Paris, France, assignor to Vadolt Trust, Vaduz, Principality of Liechtenstein. Vapor recovery system for fuel tanks. 2,640,627, June 2.

Doerr, Richard L., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Composition of matter. 2,640,793, June 2.

Dolinsky, Alexander, Cleveland Heights, Ohio. Detector for counterfeit money. 2,640,279, June 2.

Domer, Victor J., Okeechobee, Fla. Turbine pump. 2,640,427, June 2.

Donkin, William H., Ealing, London, England, assignor to Rexel Products of Canada Limited, Toronto, Ontario, Canada. Dispenser for self-adhesive tape. 2,640,656, June 2.

Donley, Hugh L.: *See*— Wentworth, Chandler, and Donley.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door closing means for load discharging cars. 2,640,437, June 2.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Outlet assembly for hopper type railway cars. 2,640,438, June 2.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper closure for hopper type railway cars. 2,640,439, June 2.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Closure for hopper of hopper type railway cars. 2,640,440, June 2.

Doty, Clifford B.: *See*— Lauer, Rodney E., and Doty.

Doty, De Verne V., Milton, and A. Long, Frankford, Del. Automatic poultry feeder. 2,640,462, June 2.

Doub, Leonard, assignor to Parke, Davis & Company, Detroit, Mich. Production of an aromatic amino hydroxy acid. 2,640,854, June 2.

Dow Chemical Company, The, assignee: *See*— Cardwell, Paul H., and Lunsford. Easley, John A., and Swayze. Teot, Arthur S., and Wiggins.

Dowell, George D., assignor to Hanes Hosiery Mills Company, Winston-Salem, N. C. Stocking. 2,640,339, June 2.

Dowty Equipment Limited, assignee: *See*— Carey, Frederick H.

Draper Corporation, assignee: *See*— Consoletti, Paul C. Rickenback, William.

Dresser Industries, Inc., assignee: *See*— Houghton, Carl R.

Drew, E. F., & Co., Inc., assignee: *See*— Ulmer, Richard C.

Dronoff, Jean, Rye, N. Y. Buckle. 2,640,241, June 2.

Drouin, Pierre A., Paris, France. Variable inductance comparator. 2,640,966, June 2.

Druey, Jean, Riehen, and P. Schmidt, Therwil, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. 5-hydroxy-4: 7-phenanthrolines and the preparation thereof. 2,640,830, June 2.

Duff, Alexander G., Toronto, Ontario, Canada, assignor to Remington Rand Inc., New York, N. Y. Consecutive numeral punching mechanism. 2,640,538, June 2.

Duffy, Edward F., assignor to La Crosse Trailer Corporation, La Crosse, Wis. Self-adjusting tractor-trailer draft device. 2,640,710, June 2.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*— Olson, Alton L.

Dungler, Julien, Basel, Switzerland. Conveying means for webs or sheets. 2,640,277, June 2.

Dunn, William D., Linden, N. J. Cigarette package and matchbook holder. 2,640,588, June 2.

Dünnebier, Kurt, administrator: *See*— Winkler, Richard, and Dünnebier.

Dünnebier, Max: *See*— Winkler, Richard, and Dünnebier.

Du Pont, E. I., de Nemours & Company, assignee: *See*— Rollings, Robert C.

Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La Roche Inc., Nutley, N. J. α-(2-thienyl) benzylureas and producing the same. 2,640,835, June 2.

Dyszarz, Charles E., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Wheel carrier. 2,640,636, June 2.

E. A. Laboratories, Inc., assignee: *See*— Aufiero, John M.

ETA AG., Ebauches-Fabrik, assignee: *See*— Stamm, Heinrich.

Eagle Lock Company, The, assignee: *See*— Zavoice, Stephen V.

Eagle-Picher Company, The, assignee: *See*— Chubb, Melvin F. Milone, Louis J.

Eaglesfield, Charles C., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric pulse code modulation system of communication. 2,640,965, June 2.

Easley, John A., and H. E. Swayze, assignors to The Dow Chemical Company, Midland, Mich. Etching. 2,640,763, June 2.

Easley, John A., and H. E. Swayze, assignors to The Dow Chemical Company, Midland, Mich. Etching. 2,640,764, June 2.

Easley, John A., and H. E. Swayze, assignors to The Dow Chemical Company, Midland, Mich. Etching. 2,640,765, June 2.

Easley, John A., and H. E. Swayze, assignors to The Dow Chemical Company, Midland, Mich. Etching. 2,640,766, June 2.

Easley, John A., and H. E. Swayze, assignors to The Dow Chemical Company, Midland, Mich. Etching. 2,640,767, June 2.

Eastman Kodak Company, assignee: *See*— Spence, John, and Carroll.

Eaton Manufacturing Company, assignee: *See*— Sleggreen, Richard L. Winther, Martin P.

Eck, Floyd R., Des Plaines, and W. L. Chambers, Chicago, Ill., assignors to Motor Products Corporation, Detroit, Mich. Cabinet door structure. 2,640,230, June 2.

Eckert, William F., Mauch Chunk, Pa. Self-sharpening safety razor. 2,640,258, June 2.

Edmunds, Ernest R.: *See*— Gence, Frank C., Edmunds, and Panzarella.

Edwards, Charles R., deceased, by F. R. Edwards, executrix, Houston, Tex. Inside pipe cutter. 2,640,537, June 2.

Edwards, Frances R., executrix: *See*— Edwards, Charles R.

Ehrsam, J. B., & Sons Manufacturing Co., assignee: *See*— Rosenleaf, John R.

Elco Tool and Screw Corporation, assignee: *See*— Larson, Walter G., and Broberg.

Electrical Testing Laboratories, Inc., assignee: *See*— Little, William F.

Electronic Engineering Company of Sioux Falls, a division of The Iseman Corporation, assignee: *See*— Nelson, Gorman R.

Electronold Corporation, assignee: *See*— Fisher, Frederick C.

Elersich, Frank E., North Hollywood, Calif. Ball collecting trough for pool tables. 2,640,697, June 2.

Ellis-Foster Company, assignee: *See*— Wells, Franklin B.

Ellis, Grenville B., Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army. Deferred action type battery. 2,640,863, June 2.

Ellison, Lynn E., Crystal Lake, and R. R. Proctor, Evanston, assignors to The Puce Oil Company, Chicago, Ill. Elertronic torquemeter and horsepower indicator. 2,640,352, June 2.

Emerson-Scheuring Tank and Manufacturing Company, Inc., assignee: *See*— Scheuring, Charles E.

Enterprise Railway Equipment Company, assignee: *See*— Dorey, George B.

Ercolino, Michael D., Wanamassa, N. J. Television antenna. 2,640,929, June 2.

Erling, Sven J., Nockeby, assignor to Aktiebolaget Separator, Stockholm, Sweden. Apparatus for operating a vacuum currying apparatus. 2,640,218, June 2.

Espley, Dennis C., North Wembley, assignor to The General Electric Company, Limited, London, England. Switch for high-frequency electrical oscillations. 2,640,878, June 2.

Espley, Dennis C., North Wembley, assignor to The General Electric Company, Limited, London, England. Filter arrangement for combined radio receiving and transmitting systems. 2,640,916, June 2.

Ethicon Suture Laboratories Incorporated, assignee: *See*—
Davis, Herbert L., and Bloch.

Evans, Cyril G., Farnborough, and P. H. H. Bishop, Gosport, assignors to Minister of Supply in His Majesty's Government, London, England. Production of synthetic resinous material. 2,640,797, June 2.

Evans, Fraser M., Acton, London, and W. E. W. Nicolls, Pinner, assignors to C. A. V. Limited, London, England. Liquid fuel injection pump for internal-combustion engines. 2,640,419, June 2.

Evans, Milton L., Miami, Fla. Cylindrical sandwich toaster. 2,640,905, June 2.

Ex-Cell-O Corporation, assignee: *See*—
Mathys, Max A.

Fachman, Leroy F., Port Clinton, Ohio. View-finder attachment for cameras. 2,640,777, June 2.

Fadex Foreign Trading Corporation, assignee: *See*—
Kramer, Ferdinand.

Falge, Robert N., and D. P. Clayton, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Electrical connector having a spring-biased line terminal. 2,640,970, June 2.

Fang, James C., Sharon Hill, Pa., and W. Bergmann, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of Pechmann dye. 2,640,837, June 2.

Farbenfabriken Bayer, assignee: *See*—
Schrader, Gerhard.

Farr, Edward A., Columbus, Ind., assignor to Arvin Industries, Inc. Toast rack. 2,640,600, June 2.

Farris, Victor W., Tenafly, N. J. Manually operated pinch valve. 2,640,675, June 2.

Feeney, Thomas A., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Follow-up type pressure fluid servomotor. 2,640,466, June 2.

Fellows Gear Shaper Company, The, assignee: *See*—
Bean, Arthur I.
Miller, Edward W.

Feltman, Charles, Lakewood, N. J. Toy hand organ. 2,640,383, June 2.

Fenn Bros., Inc., assignee: *See*—
Schroenghamer, George.

Fentress, David W., Barrington, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Jet engine tail pipe assembly. 2,640,317, June 2.

Ferro Corporation, assignee: *See*—
Skinner, Robert E., and McIntyre.

Finger, Philip M., St. Louis, Mo. Portable gravel screen. 2,640,592, June 2.

Fink, Israel J., and W. V. McNeely, Cincinnati, Ohio. Automatic metalworking machine. 2,640,253, June 2.

Fischbach, Adolph, Red Bank, and F. Hochberg, Loch Arbour, N. J., assignors to the United States of America as represented by the Secretary of the Army. Preparation of porous zinc electrodes. 2,640,864, June 2.

Fischer & Ludlow Limited, assignee: *See*—
Orwin, Olaf J. B.

Fisher, Frederick C., Bellmore, assignor to Electronoid Corporation, New York, N. Y. Electromagnetic straight-line motor. 2,640,955, June 2.

Fitz Cosmetics Incorporated, assignee: *See*—
Fitz, Henry.

Fitz, Henry, assignor to Fitz Cosmetics Incorporated, Washington, D. C. Cosmetic assembly. 2,640,487, June 2.

Flournoy, Algernon F., Shreveport, La., assignor to by decree of distribution to M. T. Flournoy. Heat storing cooking utensils. 2,640,478, June 2.

Flournoy, Margaret T., assignee: *See*—
Flournoy, Algernon F.

Flygare, Carl G.: *See*—
Hill, Olva E., and Flygare.

Force, Earl, Newton Falls, assignor of fifty per cent to W. B. Harpman, Poland, Ohio. Welding transformer. 2,640,960, June 2.

Force, Leonard T., and G. Moore, Norwood, and W. J. Hincks, assignors to Canada Packers Limited, St. Boniface, Manitoba, Canada. Dressing beef cattle and the like. 2,640,225, June 2.

Forsaell, Harry: *See*—
Sörensen, Harald M., and Forsaell.

Forsyth, George H., Evanston, Ill. Table tennis bat. 2,640,698, June 2.

Foster, Thomas W., Chicago, L. E. Schek, Berwyn, Ill., and E. L. Bradley, Cleveland, Ohio, assignors to Container Corporation of America, Chicago, Ill. Drive-in theater service tray. 2,640,589, June 2.

Foster Wheeler Corporation, assignee: *See*—
Thomson, Hugh M., and Mudle.

Fraga, Frank M., Fresno, Calif. Combination hitch. 2,640,708, June 2.

Francis, Lester V., Round Lake, Ill. Portable clothes carrier for automobiles. 2,640,634, June 2.

Frank, Walter N., assignor to The Apex Machine & Tool Company, Dayton, Ohio. Work support. 2,640,399, June 2.

Frankenstein, William P., Cincinnati, Ohio. Display carton. 2,640,642, June 2.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,640,643, June 2.

Frankford, Clarence, assignee: *See*—
Diamond, Emanuel.

Frankle, Harry R., Des Moines, Iowa. Control for revolving drum vending machines. 2,640,574, June 2.

Freeborn, James E., Broxbourne, assignor to Screen Printing Machinery Limited, London, England. Mechanism for transforming one form of movement into another, more particularly for use in stencil printing machines. 2,640,415, June 2.

Freedman, Samuel, and G. F. Bonardi, United States Navy. Microwave modulation. 2,640,964, June 2.

Freeman, Hyman, London, England. Apparatus for measuring the focal length of lenses. 2,640,392, June 2.

Fryling, Charles F.: *See*—
Pritchard, James, and Fryling.

Fuller Company, assignee: *See*—
Gaffney, Joseph B.

Funk, Julius H., St. Louis, Mo. Headwear. 2,640,199, June 2.

Gaffney, Joseph B., Hokendauqua, assignor to Fuller Company, Catasauqua, Pa. Retroverted passage type muffler with outer conduit formed of sound absorbing material. 2,640,577, June 2.

Gaiser, Romey A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated safety glass. 2,640,904, June 2.

Garbo, Paul W., Freeport, N. Y. Disklike plaything. 2,640,699, June 2.

Garner, John S., Darlington, S. C. Fishhook. 2,640,291, June 2.

Garner, Lloyd P.: *See*—
Harbaugh, Willis E., and Garner.

Garner, Silver F., and K. T. Heap, Grants Pass, Oreg. Vehicle splash guard construction. 2,640,714, June 2.

Garrard Engineering & Manufacturing Company Limited, The, assignee: *See*—
Mortimer, Edmund W.
Mortimer, Edmund W., and Wilkins.

Garretson, Owen L.: *See*—
MacSporran, Charles, and Garretson.

Garrett, Harry R., assignee: *See*—
Garrett, James F.

Garrett, James F., assignor of one-half to H. R. Garrett, Pampa, Tex. Waterbag carrier. 2,640,635, June 2.

Gaubatz, Arthur W.: *See*—
Wheatley, John B., Gaubatz, and Anderson.

Geier, George, Ridgefield, assignor to Keuffel & Esser Company, Hoboken, N. J. Theodolite. 2,640,267, June 2.

Genco, Frank C., Buffalo, E. R. Edmunds, Tonawanda Township, Erie County, and N. Panzarella, Buffalo, N. Y.; said Edmunds and said Panzarella assignors to said Genco. Machine for gluing and sealing carton flaps. 2,640,305, June 2.

Genco, Frank C., Buffalo, N. Y. Shutoff valve for automatic weighing mechanisms. 2,640,630, June 2.

General Controls Co., assignee: *See*—
Cairns, Fred E., Jr.

General Electric Company, assignee: *See*—
Di Giorgio, Philip A.
Kinman, Thomas H.
McArthur, Elmer D.
Miller, Charles W., Saxon, and Crowley-Milling.
Paul, William E.
Pollock, Herbert C.

General Electric Company, Limited, The, assignee: *See*—
Espley, Dennis C.

General Instrument Corporation, assignee: *See*—
Haggerty, Ridgeway T.

General Motors Corporation, assignee: *See*—
Babitch, Abraham M.
Boyer, Floyd J.
Falge, Robert N., and Clayton.
Schjolin, Hans O.
Wheatley, John B., Gaubatz, and Anderson.

General Steel Castings Corporation, assignee: *See*—
Schleier, Albert M., and Jackson.

George, Fred, Berkeley, Calif., assignor of one-half to Norbest Turkey Growers Association, Salt Lake City, Utah. Turkey product and preparing same. 2,640,779, June 2.

George, Philip D.: *See*—
Di Giorgio, Philip A.

George, Ramon H., Baltimore, Md. Restraining device for fowl. 2,640,224, June 2.

Gerlach, Karl, Moers, Germany. Mine stemple comprising two telescoping sections. 2,640,674, June 2.

Germain, Leo M., Shawinigan Falls, Quebec, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Preparation of solutions of polyvinyl alcohol-acetate. 2,640,816, June 2.

Giannini, G. M., & Co., Inc., assignee: *See*—
Klose, Alfred J.

Gibb, Harold A., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Aircraft trim tab control. 2,640,665, June 2.

Gibbe Manufacturing and Research Corporation, assignee: *See*—
Gibbe, Thomas B.

Gibbe, Thomas B., Delavan, assignor to Gibbe Manufacturing and Research Corporation, Janesville, Wis. Watch regulating apparatus. 2,640,349, June 2.

Giffin, Edward S., Auburn, Wash. Combination-operated mechanism. 2,640,346, June 2.

Gilbert, Samuel, Cedar Grove, and C. Metzger, Morris Plains, assignors to Bendix Aviation Corporation, Teterboro, N. J. High-speed starter. 2,640,359, June 2.

Glas-Col Apparatus Co., Inc., assignee: *See*—
Morey, Glen H.

Glover, Stewart W., and H. A. Vogel, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Treatment of tall oil. 2,640,823, June 2.

Golubich, Anthony M., assignee: *See*—
Bodenhoff, George H.

Goodman Manufacturing Company, assignee: *See*—
Madeira, John R.

Goodrich, B. F., Company, The, assignee: *See*—
Porter, Donald K.

Gore, Owen L.: *See*—
De Flores, Luis, Gore, and Bach.

Gorman, Andrew T., Pitcairn, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure brake release indicating means. 2,640,782, June 2.

Goss, William A.: *See*—
Preble, Norman H., and Goss.

Gottlieb, Max C., assignor to Speedry Products, Inc., New York, N. Y. Fountain pen with filling cap. 2,640,216, June 2.

Gould, Barbara V., Cleveland Heights, Ohio. Garment. 2,640,196, June 2.

Graber, Robert P.: *See*—
Wendler, Norman L., and Graber.

Graber, Robert P.: *See*—
Wendler, Norman L., Graber, and Haven.

Grader, Jan, Washington, D. C. Food products and producing the same. 2,640,781, June 2.

Grady, Martin J., Bridgman, Mich. Wall fixture support. 2,640,671, June 2.

Grangaard, Donald H., Appleton, assignor to Paper Patents Company, Neenah, Wis. Continuously uniting resin impregnated cellulosic webs for decorative coverings. 2,640,799, June 2.

Graves, Mark, Cleveland Heights, Ohio. Drill. 2,640,379, June 2.

Gray, John W., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Constant current device. 2,640,962, June 2.

Gray, Thomas D.: *See*—
Cleaver, Richard F., and Gray.

Greaves, Charles D., and W. D. Parker, assignors to C. D. Patents Limited, London, England. Manufacture of carbonaceous molding compositions. 2,640,787, June 2.

Grebey, George F., Portsmouth, R. I. Automatic carbine. 2,640,396, June 2.

Green, Clarence J., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,640,300, June 2.

Greening, Herald B., Hamilton, Ontario, Canada. Means for testing the accuracy of watches. 2,640,350, June 2.

Griffiths, Clyde C., Harvey, Ill., assignor to Whiting Corporation. Side release table for servicing railroad vehicles and the like. 2,640,435, June 2.

Grossman, Harry C., Baltimore, Md. Combined wrench and wedging tool for removing screw plugs. 2,640,382, June 2.

Grossman, Ralph G., assignee: *See*—
Prupis, Nathan.

Gruender, Oscar C., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Gyratory crusher shaft lubrication. 2,640,651, June 2.

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Tape dispenser. 2,640,657, June 2.

Gwaltney, Eugene C., Biddeford Pool, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Silver compressor. 2,640,229, June 2.

Gwoosh, Stephen J.: *See*—
Taylor, Clarence E., and Gwoosh.

Habgood, Warren J., Millbourne, Pa. Valve. 2,640,676, June 2.

Hafner, Raoul, assignor to The Bristol Aeroplane Company Limited, Bristol, England. Impeller movement damping device. 2,640,353, June 2.

Haggar, Robert W., Hamilton, Ontario, Canada. Boring head construction. 2,640,378, June 2.

Haggerty, Ridgeway T., Richmond Hill, N. Y., assignor to General Instrument Corporation, Elizabeth, N. J. Tone arm positioning mechanism for automatic record changer phonographs. 2,640,702, June 2.

Hale, William C., Jr., assignor to South Chester Corporation, Chester, Pa. Blind riveted joint. 2,640,618, June 2.

Haller, John, Northville, Mich. Hydraulic molding press. 2,640,325, June 2.

Haltenberger, Jules, Rancho Sante Fe, Calif. Combustion engine inlet manifold. 2,640,470, June 2.

Haltenberger, Jules, Rancho Santa Fe, Calif. Automobile V engine symmetrical manifold. 2,640,471, June 2.

Halverson, Bertram A., Forest Grove, Oreg. Cultivator depth control device. 2,640,403, June 2.

Hamblin, Clyde M., Washington, D. C. Construction of flexible hose. 2,640,500, June 2.

Hamilton, Arthur S., Jr., Brighton, N. Y. Apparatus for cleaning bottles. 2,640,212, June 2.

Hamilton Watch Company, assignee: *See*—
Thomsen, Millard R.

Hamlin Metal Products Company, The, assignee: *See*—
Walklet, Mercer D.

Hammond, Robert S.: *See*—
Holmes, Louis D., and Hammond.

Hanes Hosiery Mills Company, assignee: *See*—
Dowell, George D.

Hans, Edmund E., Detroit, Mich. Air freshening system. 2,640,409, June 2.

Hans, Edmund E., Detroit, Mich. Air inlet housing. 2,640,411, June 2.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse type multiplex communication system. 2,640,921, June 2.

Harbaugh, Willis E., Bareville, and L. P. Garner, Lancaster, Pa., assignors to Radio Corporation of America. Introduction of active materials into evacuated envelopes. 2,640,945, June 2.

Harkenrider, Robert J., assignor to G. D. Miller, Winona, Minn. Journal lubricator. 2,640,740, June 2.

Harkenrider, Robert J., assignor to G. D. Miller, Winona, Minn. Journal lubricator. 2,640,741, June 2.

Harkenrider, Robert J., assignor to G. D. Miller, Winona, Minn. Traction motor lubricator. 2,640,742, June 2.

Harkenrider, Robert J., assignor to G. D. Miller, Winona, Minn. Traction motor lubricator. 2,640,743, June 2.

Harkenrider, Robert J., assignor to G. D. Miller, Winona, Minn. Traction motor lubricator. 2,640,744, June 2.

Harman, Denham, Berkeley, and H. J. Sommer, Lafayette, assignors to Shell Development Company, San Francisco, Calif. Acylated complex oxygen-containing polyamines. 2,640,822, June 2.

Harman, Deuham, Berkeley, and D. L. E. Winkler, Orinda, assignors to Shell Development Company, San Francisco, Calif. Esters of sulfur-containing polycarboxylic acids. 2,640,848, June 2.

Harney, Bernard C., assignor to Lipe-Rollway Corporation, Syracuse, N. Y. Magazine and delivery mechanism for bar feed machines. 2,640,511, June 2.

Harper, Carolyn L., assignee: *See*—
Lamar, Charles C.

Harper, Carolyn L., Trust, The: *See*—
Lamar, Charles C.

Harper, James K., assignor to A. B. Chance Company, Centralia, Mo. Pole key anchor. 2,640,571, June 2.

Harper, Philip S., assignee: *See*—
Lamar, Charles C.

Harper, Philip S., Trust, The, assignee: *See*—
Lamar, Charles C.

Harpman, Webster B., assignee: *See*—
Force, Earl.

Harris, Asa J., Balboa, C. Z. Mechanical device for operating boat davits. 2,640,206, June 2.

Harris Trust and Savings bank, trustee, assignee: *See*—
Lamar, Charles C.

Harshaw Chemical Company, The, assignee: *See*—
Hay, John G.
Kremers, Harry C.

Hart, John S.: *See*—
Ross, James H., Hart, Strapp, and Maass.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Buchner, Robert B.

Hartley, George C., and D. A. Weir, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Telecommunication exchange system. 2,640,872, June 2.

Harvey, Thaddeus F., South Bend, Ind. Reversible coil winding mechanism for stator winding machines. 2,640,652, June 2.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.
Phillips, Harold P., and Anderson.

Hatt, Harold H., Kew, P. H. A. Strasser, Balwyn, and W. J. Troyahn, Gardiner, assignors to Commonwealth Scientific and Industrial Research Organization, East Melbourne, Victoria, Australia. Refining and bleaching of sugar cane wax. 2,640,841, June 2.

Hausner, Joseph, Jamaica, N. Y. Producing reinforced wire netting. 2,640,789, June 2.

Haven, Alfred C., Jr.: *See*—
Wendler, Normal L., Graver, and Haven.

Hay, John G., Bratenahl, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Purification of alkali metal halides. 2,640,755, June 2.

Haynes, Clyde H., Elyria, Ohio. Electrical heating device. 2,640,906, June 2.

Hayward, John A., Claremont, N. H., assignor to Joy Manufacturing Company. Cuttings removing mechanism. 2,640,690, June 2.

Hazelett, Clarence W., Greenwich, Conn. Metal manufacturing apparatus. 2,640,235, June 2.

Hazeltine Research, Inc., assignee: *See*—
Hirsch, Charles J.

Heap, Kenneth T.: *See*—
Garner, Silver F., and Heap.

Hefner, Calvin Q., Sublette, Kans. Hydraulic tractor drawbar pounds pull tester. 2,640,353, June 2.

Heikkila, Sylvia S.: *See*—
Tewksbury, Lyndon B., Jr., and Heikkila.

Heim, Charles C., deceased, late of Spokane, Wash., by Pauline B. Heim, executrix, Essex Junction, Vt., assignor to Kaiser Aluminum and Chemical Corporation, Oakland, Calif. Producing aluminum carbide. 2,640,760, June 2.

Heim, Pauline B., executrix: *See*—
Heim, Charles C.

Heinle, Robert F., Ottumwa, assignor to Deere Manufacturing Co., Dubuque, Iowa. Supporting means for swingable material handling ducts. 2,640,566, June 2.

Hennessey, Russell J., and M. B. Jameson, assignors to Waldorf Paper Products Company, St. Paul, Minn. Partition pad. 2,640,644, June 2.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway journal box oil guard. 2,640,739, June 2.

Hennessy Lubricator Company, Inc., assignee: *See*—
Hennessy, James J.

Hercules Powder Company, assignee: *See*—
Barber, Edwin J.

Herres, Schuyler A., Albany, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Apparatus for melting titanium to form ingots. 2,640,860, June 2.

Hesch, Frederick H., Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation. Polishing aluminum. 2,640,806, June 2.

Hess, Alexander McD., New York, N. Y. Shelf. 2,640,590, June 2.

Hickok Manufacturing Co. Inc., assignee: *See*—
Valsey, Samuel J.

Hicks, Walter R., Manhasset, assignor, by mesne assignments, to Aircall, Inc., New York, N. Y. Automatic paging system. 2,640,887, June 2.

Higgs, Morton C.: *See*—
Parsons, Joseph R., Higgs and Loos.

High Voltage Engineering Corporation, assignee: *See*—
Burrill, Ernest A.

Hill, Benjamin, Frazer, Pa. Traction apparatus. 2,640,480, June 2.

Hill, Claude L., Oak Harbor, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Automatic air lift control. 2,640,731, June 2.

Hill, Luther R.: *See*—
McGrath, Henry G., and Hill.

Hill, Luther R., Ridgewood, and H. G. McGrath, Elizabeth, assignors to The M. W. Kellogg Company, Jersey City, N. J. Synthesis of organic compounds. 2,640,843, June 2.

Hill, Olva E., West Boylston, and C. G. Flygare, assignors to Norton Company, Worcester, Mass. Grinding machine. 2,640,301, June 2.

Hills, Elmer G., Chicago, Ill., assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical precipitator circuits. 2,640,558, June 2.

Hincks, William J.: *See*—
Force, Leonard T., Moore, and Hincks.

Hirsch, Charles J., Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Electron discharge signal-sampling device. 2,640,925, June 2.

Hochberg, Frederick: *See*—
Fischbach, Adolph, and Hochberg.

Hoelscher, William G., assignor to The American Tool Works Company, Cincinnati, Ohio. Feedbox transmission for lathes. 2,640,369, June 2.

Hoffman, Alfred E.: *See*—
Bloch, Herman S., and Hoffman.

Hoffmann-La Roche Inc., assignee: *See*—
Duschinsky, Robert.
Pecherer, Benjamin.

Hohn, Francis H.: *See*—
Hohn, Frank X. and F. H.

Hohn, Frank X., St. Louis, and F. H. Hohn, Webster Groves, assignors to Scullin Steel Co., St. Louis, Mo. Restoring X-ray film. 2,640,775, June 2.

Hohwieler, William U., Morrisville, Pa., assignor to the United States of America as represented by the Secretary of the Army. Cold resistant cellular rubber. 2,640,858, June 2.

Hollmann, Hans E., Camarillo, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Stabilizing steering vane. 2,640,453, June 2.

Holmberg, Henry, assignor to Marquette Manufacturing Co., Ludington, Mich. Overbed table. 2,640,748, June 2.

Holmes, Louis D., Blue Island, and R. S. Hammond, Winnetka, Ill., assignors to Whiting Corporation. Drop table apparatus. 2,640,436, June 2.

Hoppenstand Brake Corporation, assignee: *See*—
Hoppenstand, David.

Hoppenstand, David, Greenville, Pa., assignor to Hoppenstand Brake Corporation. Brake structure. 2,640,565, June 2.

Horowitz, Alexandre, Eindhoven, Netherlands. Supporting construction for building layers. 2,640,570, June 2.

Hosking, Thomas W., assignor to Briggs Manufacturing Co., Detroit, Mich. Trim fastening device. 2,640,722, June 2.

Houdaille-Hershey Corporation, assignee: *See*—
Magrum, Gervase M.

Houghton, Carl R., Connersville, Ind., assignor, by mesne assignments, to Dresser Industries, Inc. Drive for fluid handling devices of the rotary, positive displacement type. 2,640,428, June 2.

House, R. L., assignee: *See*—
Winn, Welton B.

Howse, Curtis L., Spartanburg, S. C., assignor to Continental Foundry & Machine Company, East Chicago, Ind. Soot blower control system. 2,640,217, June 2.

Hughes By-Product Coke Oven Corporation, assignee: *See*—
Hughes, Charles H.

Hughes, Charles H., Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y. Combustion control device for sole-fired horizontal coke ovens. 2,640,805, June 2.

Hughes Tool Company, assignee: *See*—
Scott, Fred A. and F. L.

Hughey, Vaughn V., Tiffin, assignor to Basic Refractories, Incorporated, Cleveland, Ohio. Producing magnesia. 2,640,759, June 2.

Hume, William G., Lancaster, Pa., assignor, by mesne assignments, to Quaker State Metals Company. Line-gripping device for props. 2,640,236, June 2.

Hunt Foods, Inc., assignee: *See*—
Stryker, Garrett B.

Hunter, Thomas G., Chicago, Ill. Combination breaker buoy and power generating means. 2,640,326, June 2.

Hurwitz, Melvin D., Philadelphia, and R. W. Auten, Jenkintown, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparing organic isocyanates. 2,640,846, June 2.

Ieu-Liang Wu, William, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Automatic release and reset system. 2,640,926, June 2.

Illman, John C., Albany, and H. J. Sommer, Lafayette, assignors to Shell Development Company, Emeryville, Calif. Treating high molecular weight hydrocarbons. 2,640,803, June 2.

Imperial Chemical Industries Limited, assignee: *See*—
Buckley, Gerard D., and Ray.

Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Lapping machine. 2,640,302, June 2.

Ingersoll Milling Machine Company, The, assignee: *See*—
Bowen, Earl M.
Johnson, Arthur W.

Ingle, Donald P., assignor to All Star Products, Inc., Defiance, Ohio. Magnetic focusing device for cathode-ray tubes. 2,640,868, June 2.

Ingvardsen, Johan F. I., Copenhagen, Denmark. Cold plate with means to prevent condensation. 2,640,329, June 2.

International Standard Electric Corporation, assignee: *See*—
Algrain, Pierre R., and Lair.
Casabona, Anthony M.
Cleaver, Richard F., and Gray.
Devaux, Lucien.
Eaglesfield, Charles C.
Hartley, George C., and Weir.
Kandolan, Armig G.
Kruithof, Jakob.
Kuper, James B. H.
Lundburg, Frank J., and Bucher.
Phinney, Edward D., and Bailey.
Scott, Thomas R., and Weston.
Sichak, William.
Staschover, Leo, and Rosenberg.
Tournier, Marcel C.
Veaux, Henri M.

Iron Fireman Manufacturing Company, assignee: *See*—
Judson, Albert L.

Isacco, Vittorio, London, England. Jet-driven sustaining propeller for aircraft. 2,640,540, June 2.

Iscler, Hans, E. Iselin, and W. Wehrli, assignors to Sandoz A. G., Basel, Switzerland. Polyazo dyestuffs. 2,640,824, June 2.

Iselin, Ernst: *See*—
Iscler, Hans, Iselin, and Wehrli.

J & J Tool and Machine Co., assignee: *See*—
Junkunc, Béla B.

Jackson, Clifford C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Window regulator. 2,640,694, June 2.

Jackson, Edwin C.: *See*—
Schieler, Albert M., and Jackson.

Jacobson, Howard C., St. Paul, Minn. Hammer mill screen construction. 2,640,650, June 2.

Jameson, Morton B.: *See*—
Hennessey, Russell J., and Jameson.

Jandasek, Joseph, assignor to Chrysler Corporation, High land Park, Mich. Transmission. 2,640,373, June 2.

Jaymac Systems, Incorporated, assignee: *See*—
Nelson, Brooks E.

Jensen, Charles B., assignor to Atmos Corporation, Chicago, Ill. Apparatus for smoking and curing food products. 2,640,414, June 2.

Jindrich, Joseph, Marengo, Iowa. Agitating type stock feeder. 2,640,464, June 2.

Johansson, Karl L.: *See*—
Claesson, Per H. E., and Johansson.

Johnsen, Iver, Jr., Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Load bracing means. 2,640,442, June 2.

Johnson, Albert, Los Angeles, Calif. Sanitary device. 2,640,484, June 2.

Johnson, Albert, New York, N. Y. Uniform tensioning device. 2,640,655, June 2.

Johnson, Arnold R., Underwood, N. Dak. Knife sharpening and grinding attachment. 2,640,303, June 2.

Johnson, Arthur W., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Boring machine. 2,640,376, June 2.

Johnson, Fred I., Sheboygan, Wis., assignor to Reiss Manufacturing Corporation, Wilmington, Del. Boring or drilling machine and work holding clamp. 2,640,515, June 2.

Johnson, Gordon, Company, assignee: *See*—
Johnson, Gordon W.

Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Egg washing machine. 2,640,209, June 2.

Johnson, Howard O., Perris, Calif. Refrigerated display case. 2,640,330, June 2.

Johnson, Howard R., Pound Va. Multipositioned liquid switch. 2,640,890, June 2.

Johnson, John, Slough, assignor to Combined Optical Industries Limited, Buckinghamshire, England. Production of lenses from transparent plastics. 2,640,227, June 2.

Johnson, Myron A. C., Coral Gables, and J. Toth, Hialeah, Fla. Flying saucer toy. 2,640,296, June 2.

Johnson, Raymond C., Wilkes-Barre, Pa., and C. C. Tyrrell, Binghamton, N. Y., assignors to Anthracite Equipment Corporation, Wilkes-Barre, Pa. Heating apparatus. 2,640,467, June 2.

Johnston, Blaine, Pasadena, assignor to M. O. Johnston, Glendale, Calif. Hydraulic pipe pulling device. 2,640,681, June 2.

Johnston, M. O., assignee: *See*—
Johnston, Blaine.

Jones, Charles E., assignor to Cory Corporation, Chicago, Ill. Electric circulating floor fan. 2,640,046, June 2.

Jones, Robert E., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Overlapping car end for mine cars. 2,640,441, June 2.

Jones, Walter I., Somerville, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener stud installation. 2,640,243, June 2.

Jordan, Charles E.: *See*—
Jordan, William M. and C. E.

Jordan Regulator Corporation, assignee: *See*—
Bissell, Harry G.

Jordan, William M. and C. E., West Palm Beach, Fla. Jalousie assembly for building construction. 2,640,569, June 2.

Jourdain, André P., assignor to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium. Device for measuring soil resistance. 2,640,351, June 2.

Journeaux, Didier, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrode spacing regulator utilizing a nonlinear reference impedance device. 2,640,947, June 2.

Joy Manufacturing Company, assignee: *See*—
Hayward, John A.

Judson, Albert L., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Control for vaporizing oil burners with electric ignition. 2,640,648, June 2.

Junkunc, Alexander, Jr., assignee: *See*—
Junkunc, Béla B.

Junkunc, Alexander, Sr., assignee: *See*—
Junkunc, Béla B.

Junkunc, Béla B., assignor to B. B. Junkunc, A. Junkunc, Sr., A. Junkunc, Jr., and J. G. Junkunc, doing business as J & J Tool and Machine Co., Chicago, Ill. Support for a cornice and Venetian blind. 2,640,533, June 2.

Junkunc, Joseph G., assignee: *See*—
Junkunc, Béla B.

Kaiser Aluminum and Chemical Corporation, assignee: *See*—
Heim, Charles C.
Hesch, Frederick H.

Kandolan, Armig G., Glen Rock, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Circularly polarized broad band antenna. 2,640,028, June 2.

Kayler, Frank H., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Fifth wheel coupling mechanism. 2,640,707, June 2.

Kearney, James R., Corporation, assignee: *See*—
Clements, Howard E.

Kellogg, M. W., Company, The, assignee: *See*—
Hill, Luther R., and McGrath.
McGrath, Henry G., and Hill.

Kennedy, Eugene P., Tulsa, Okla. Nut-cracking machine. 2,640,519, June 2.

Kennedy, Raymond A., Sioux City, Iowa. Balancing weight. 2,640,727, June 2.

Kershaw, Knox, Birmingham, Ala. Rotary type ballast removing apparatus. 2,640,285, June 2.

Keuffel & Esser Company, assignee: *See*—
Geier, George.

Keyes, Frederick G., assignor, by mesne assignments, to Arthur D. Little, Inc., Cambridge, Mass. Oxygen producing apparatus. 2,640,332, June 2.

Kilgore Inc., assignee: *See*—
Clauser, Herbert C., and Long.

Kindseth, Erling L., Redlands, Calif. Egg scale. 2,640,691, June 2.

Kinman, Thomas H., Rugby, England, assignor to General Electric Company. Photoelectric semiconductor device. 2,640,901, June 2.

Kitson, Charles H., assignee: *See*—
Kitson, Gerald L.

Kitson, Gerald L., Rockford, Mich., assignor of one-half to C. N. Cordis, Chicago, Ill., one-sixth to C. H. Kitson, and one-sixth to L. Kitson, Rockford, Mich. Stock feeder. 2,640,463, June 2.

Kitson, Leon, assignee: *See*—
Kitson, Gerald L.

Kiwad, Isadore, Westwood, N. J. Toe protector. 2,640,482, June 2.

Klaesson, John G. E., Orebro, Sweden. Convertible loom. 2,640,505, June 2.

Klose, Alfred J., Rolling Hills, assignor to G. M. Giannini & Co. Inc., Pasadena, Calif. Brush lifting device for variable resistances. 2,640,900, June 2.

Klosky, Frank P., Olean, N. Y. Combination commercial container and household measuring vessel. 2,640,628, June 2.

Knapp, George P., Verona, W. E. Burns, Denville, W. P. Robbins, and R. T. Zwack, Caldwell, N. J., assignors to Curtiss-Wright Corporation. Turbine propeller control system. 2,640,550, June 2.

Knight Leather Products, Inc., assignee: *See*—
Miller, George, and Renz.

Knuth, Emil H., Mentor, assignor to Diamond Alkali Company, Cleveland, Ohio. Coated belt. 2,640,366, June 2.

Kohls, Erich E.: *See*—
Auler, Harold F., and Kohls.

Kohring, Wilbur M., Lakewood, Ohio, assignor, by mesne assignments, to Aerovox Corporation, New Bedford, Mass. Resistance construction. 2,640,903, June 2.

Korb, Henry C., Cincinnati, Ohio. Down spout strainer. 2,640,593, June 2.

Kors, Frank F., assignor of one-half to H. D. Kors, Independence, Kans. Collapsible auto trailer. 2,640,721, June 2.

Kors, Harry D., assignee: *See*—
Kors, Frank F.

Kounovsky, Edward F., St. Louis, assignor to Alco Valve Company, University City, Mo. Reverse cycle valve. 2,640,494, June 2.

Kramer, Ferdinand, Port Chester, assignor to Fadex Foreign Trading Corporation, New York, N. Y. Umbrella. 2,640,490, June 2.

Kranick, Frank N. G., assignor to J. I. Case Company, Racine, Wis. Expansible disk harrow. 2,640,308, June 2.

Kreizelman, Norman M., Merrick, N. Y. Knockdown bent wood furniture. 2,640,527, June 2.

Kremers, Harry C., Mentor, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Resistance furnace. 2,640,861, June 2.

Krueger, August, Chicago, Ill. Burglar alarm switch. 2,640,804, June 2.

Kruithof, Jakob, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Two-motion switching system. 2,640,882, June 2.

Kruithof, Jakob, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Electric multiswitch. 2,640,884, June 2.

Kuhl, Gerald L., Detroit Lakes, Minn. Unloading device for vehicles. 2,640,613, June 2.

Kuhlik, Hattie B., assignee: *See*—
Kuhlik, Jacob M.

Kuhlik, Jacob M., assignor to H. B. Kuhlik, Sea Gate, N. Y. Traveling bag for sound recording and reproducing machines. 2,640,885, June 2.

Kulberg, August E., Beverly, R. M. Terry, Ipswich, and S. E. Swasey, Marblehead, assignors to Sylvania Electric Products Inc., Salem, Mass. Filament mounting apparatus. 2,640,509, June 2.

Kummerman, Henri, Neuilly-sur-Seine, France. Means for operating hatch-covers aboard ship. 2,640,454, June 2.

Kuper, James B. H., Bayport, assignor to International Standard Electric Corporation, New York, N. Y. Microwave amplifier of the magnetron type. 2,640,951, June 2.

Kuster, Harry B., assignor to Converto Mfg. Co., Inc., Cambridge City, Ind. Trailer individual wheel suspension. 2,640,706, June 2.

Kut-Kwick Tool Corp., assignee: *See*—
Pomeroy, Harold R.

Lacoursiere, Ernest A., Pawtucket, R. I. Identification holder. 2,640,287, June 2.

La Crosse Trailer Corporation, assignee: *See*—
Duffy, Edward F.

Lago, Antonio, Bayonne, N. J. Television antenna. 2,640,934, June 2.

Lair, Jean-Baptiste: *See*—
Algrain, Pierre R., and Lair.

Lamar, Charles C., assignor of one-fourth to P. S. Harper, one-fourth to C. L. Harper, one-fourth to Harris Trust and Savings Bank, Chicago, Ill., as trustee for The Philip S. Harper Trust, and one-fourth to said Harris Trust and Savings Bank as trustee for The Carolyn L. Harper Trust. Multiple gas burner head. 2,640,531, June 2.

Lampe, Albert G., Madison, Wis. Corner mounting bracket for floodlights. 2,640,670, June 2.

Langer, Nicholas, New York, N. Y. Bonding. 2,640,796, June 2.

Langer, Nicholas, New York, N. Y. Bonding. 2,640,798, June 2.

Larson, Walter G., and E. E. Broberg, assignors to Elco Tool and Screw Corporation, Rockford, Ill. Outside diameter gauge for screws, etc. 2,640,273, June 2.

Lash, Adeline E., Cleveland, Ohio. Collapsible infant carrier. 2,640,712, June 2.

Lauer, Rodney E., Grosse Pointe, and C. B. Doty, Detroit, Mich., assignors to Briggs Manufacturing Company. Glove compartment door latch. 2,640,723, June 2.

Leblanc, Maurice E., Chatou, assignor to Societe d'Etudes et de Modernisations pour l'Industrie Textile (S. A. R. L.), Clichy, France. Warping machine. 2,640,251, June 2.

Lee, Matthew E., South Bend, Ind. Fishing reel. 2,640,661, June 2.

Lehr, Frederic F., assignor to Liberty Electric Company, Indianapolis, Ind. Electric cup connector. 2,640,968, June 2.

Leland, G. H., Inc., assignee: *See*—
Leland, George H.

Leland, George H., assignor to G. H. Leland, Inc., Dayton, Ohio. Device for controlling the tension of a longitudinally moving wire. 2,640,663, June 2.

Leman, Arthur L., Houston, Tex. Cylinder liner and sleeve assembly for reciprocating pumps. 2,640,434, June 2.

Lemieux, Adalbert, Vancouver, British Columbia, Canada. Dumbbell with adjustable weights. 2,640,690, June 2.

Lesikar, Woodrow V., Houston, Tex. Hatrack. 2,640,594, June 2.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., assignor to R. G. Le Tourneau, Inc., Longview, Tex. Bending roll. 2,640,525, June 2.

Lewis, Charles R., Hartford, and R. J. Taggart, Columbia, assignors to Colt's Manufacturing Company, Hartford, Conn. Dishwashing machine with vertically movable door. 2,640,536, June 2.

Lewis, John M., Cheswick, and R. A. Bub, Wilkinsburg, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Dust filtering apparatus. 2,640,560, June 2.

Leyburn, Henry, Newcastle-on-Tyne, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric generator for short-circuit testing. 2,640,961, June 2.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Gaiser, Romey A.

Liberty Electric Company, assignee: *See*—
Lehr, Frederic F.

Liggett, Robert W., Whitemarsh Village, Wyndmoor, and E. L. Wimmer, Springfield, Pa., assignors to The American Sugar Refining Company, New York, N. Y. Recovery of aconitic acid from molasses. 2,640,849, June 2.

Liggett, Robert W., Whitemarsh Village, Wyndmoor, and E. L. Wimmer, Springfield, Pa., assignors to The American Sugar Refining Company, New York, N. Y. Recovery of aconitic acid from molasses. 2,640,850, June 2.

Lightbourne, Robert C., Birmingham, England. Chair convertible to ironing board. 2,640,526, June 2.

Lindberg, Peter H., Detroit, Mich. Manifold high-pressure pump. 2,640,421, June 2.

Linderman, Garrett B., Jr.: *See*—
De Florez, Luis, and Linderman.

Lingenbrink, Hermann E. F. C., Hilltown, assignor to Philco Corporation, Philadelphia, Pa. Automatic phonograph apparatus. 2,640,701, June 2.

Linwood Manufacturing Co., assignee: *See*—
Wilson, Price.

Lipe-Rollway Corporation, assignee: *See*—
Harney, Bernaed C.

Liquidometer Corporation, The, assignee: *See*—
De Giers, Clarence A.

Liston, Max D., Darien, assignor to The Perkin-Elmer Corporation, Glenbrook, Conn. Oximeter. 2,640,389, June 2.

Litterio, Virgy E., and M. T. Blease, Providence, R. I. Mechanism for threading beads. 2,640,631, June 2.

Little, Arthur D., Inc., assignee: *See*—
Keyes, Frederick G.

Little, Edmund J.: *See*—
Raider, George K., and Little.

Little, William F., Yonkers, assignor to Electrical Testing Laboratories, Inc., New York, N. Y. Wall lamp. 2,640,913, June 2.

Long, Anderson: *See*—
Doty, De Verne V., and Long.

Long, Robert S: *See*—
Clauser, Herbert C., and Long.

Long, Spencer W., Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Friction cathead. 2,640,683, June 2.

Long, Spencer W., Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Friction cathead. 2,640,684, June 2.

Lontz, Dudley M., assignor to The McBee Company, Athens, Ohio. Collating writing board. 2,640,715, June 2.

Loos, Mary A.: *See*—
Parsons, Joseph R., Higgs, and Loos.

Love, Jabez A., Eau Claire, Mich. Disk blade gang. 2,640,406, June 2.

Lucas, Joseph, Limited, assignee: *See*—
Clarke, John S.

Lundburg, Frank J., East Orange, and F. X. Bucher, Nutley, N. J., assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Antenna assembly. 2,640,930, June 2.

Lundquist, Adolph Q., Grand Junction, Colo., assignor to Union Carbide and Carbon Corporation. Treatment of carnotite ore materials. 2,640,754, June 2.

Lunsford, Charles L.: *See*—
Cardwell, Paul H., and Lunsford.

Lyon, George A., Detroit, Mich. Wheel cover. 2,640,730, June 2.

M-O Valve Company Limited, The, assignee: *See*—
Bell, James.

Maass, Otto: *See*—
Ross, James H., Hart, Strapp, and Maass.

MacBain, Donald R., Long Beach, assignor to Dr. P. A. Dewhirst, Los Angeles, Calif. Valve. 2,640,491, June 2.

Macgeorge, William D., Collegeville, and C. Cross, assignors to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Control circuit for reversible D. C. motors. 2,640,957, June 2.

Macgeorge, William D., Collegeville, assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Differential transformer. 2,640,967, June 2.

Macgeorge, William D., Collegeville, assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. D. C. millivoltage signal from an A. C. actuated differential transformer. 2,640,971, June 2.

MacGlashan, William F., Jr., Alhambra, Calif., assignor to United States of America as represented by the Secretary of the Army. Automatic low pressure venting and signaling check valve for fuel tank pressurizing systems. 2,640,529, June 2.

Mack Manufacturing Corporation, assignee: *See*—
Willis, Delbert E.

MacLean, Alexander F., Robstown, and A. L. Stautzenberger, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y. Production of hexamine. 2,640,826, June 2.

MacSporran, Charles, Bartlesville, Okla., and O. L. Garretson, Roswell, N. Mex., assignors to Phillips Petroleum Company. Automatic on and off control system for gas plants. 2,640,768, June 2.

MacSporran, Charles, Bartlesville, Okla., assignor to Phillips Petroleum Company. Gas supply control system. 2,640,769, June 2.

Madaras Corporation, assignee: *See*—
Madaras, Julius D.

Madaras, Julius D., Detroit, Mich., assignor to Madaras Corporation, Wilmington, Del. Pressure vessel and pressure head therefor. 2,640,624, June 2.

Madeira, John R., assignor to Goodman Manufacturing Company, Chicago, Ill. Belt conveyer. 2,640,582, June 2.

Magram, Sidney J., Baltimore, and J. J. Blissel, Kingsville, Md. Igniting composition and preparing same. 2,640,770, June 2.

Magrum, Gervase M., Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Reciprocating piston type hydraulic damping mechanism. 2,640,693, June 2.

Majeski, Joseph J., Porter, Ind. Key case. 2,640,347, June 2.

Mallin, Jay B., Whittier, Calif., assignor to The Texas Company, New York, N. Y. Fuel pump for internal-combustion engines. 2,640,422, June 2.

Manley, Gilbert E., Henley-in-Arden, England. Mechanism for converting reciprocating motion into rotary motion. 2,640,363, June 2.

Manning, Howard H., assignor to Champion De Arment Tool Company, Meadville, Pa. Tool. 2,640,381, June 2.

Manning, Howard H., Meadville, Pa. Machine for cutting slant sided arcuate groove elements. 2,640,398, June 2.

Margo, Murray, Hawthorne, Calif. Combination door lock. 2,640,344, June 2.

Marquette Manufacturing Co., assignee: *See*—
Heimberg, Henry.

Mars, Incorporated, assignee: *See*—
Morrison, Robert F.

Marsden, Aaron, Brooklyn, N. Y. Registry and side guide marker. 2,640,416, June 2.

Marzan, Peter R.: *See*—
McConnell, Kenneth R., and Marzan.

Maschinenfabrik Schweiter A. G., assignee: *See*—
Schweiter, Walter.

Mathieson Chemical Corporation, assignee: *See*—
Doerr, Richard L.

Mathys, Max A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Swash plate pump. 2,640,433, June 2.

Mattikow, Morris, New York, N. Y., assignor to B. Clayton, doing business as Refining, Unincorporated. Antispattering margarin. 2,640,780, June 2.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Frequency response system. 2,640,922, June 2.

McBee Company, The, assignee: *See*—
Lontz, Dudley M.

McCann, Clyde D., Des Moines, Iowa. Lighting fixture for elongated tubular fluorescent lamps. 2,640,911, June 2.

McClave, Edison J.: *See*—
Sanders, Elmore J., Wiens, and McClave.

McClelland, Arthur H., and K. R. Anderson, Los Angeles, Calif. Can label sorting device. 2,640,590, June 2.

McClure, William L., Arden, Del., and R. N. Pim, assignors to Sun Oil Company, Philadelphia, Pa. Sampler. 2,640,358, June 2.

McConnell, Kenneth R., Red Bank, N. J., and P. R. Marzan, assignors to Times Facsimile Corporation, New York, N. Y. Starting and switching control apparatus for facsimile recorders. 2,640,874, June 2.

McCord, Joses, Hollywood, Calif. Bowler's shoe. 2,640,283, June 2.

McEwan, James, San Jose, Calif. Belt grinder. 2,640,304, June 2.

McGhee, William H., assignee: *See*—
Borsini, Frederick H.

McGrath, Henry G.: *See*—
Hill, Luther R., and McGrath.

McGrath, Henry G., Elizabeth, and L. R. Hill, Ridgewood, assignors to The M. W. Kellogg Company, Jersey City, N. J. High velocity process for synthesis of organic compounds. 2,640,844, June 2.

McGushin, Joseph F., Warm Springs, Calif. Pneumatic tool lubricator. 2,640,561, June 2.

McIntyre, Glenn H.: *See*—
Skinner, Robert E., and McIntyre.

McLeod, Stewart B., Dearborn, assignor to Detroit Harvester Company, Detroit, Mich. Power unit of the fluid pressure type. 2,640,323, June 2.

McLeod, Stewart B., Dearborn, assignor to Detroit Harvester Company, Detroit, Mich. Power unit of the pressure fluid type. 2,640,426, June 2.

McLeod, Stewart B., Dearborn, assignor to Detroit Harvester Company, Detroit, Mich. Hydraulic power unit. 2,640,429, June 2.

McLeod, Stewart B., Dearborn, assignor to Detroit Harvester Company, Detroit, Mich. Power unit. 2,640,465, June 2.

McMillan, Edwin M., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Accelerator target. 2,640,924, June 2.

McNeely, William V.: *See*—
Fink, Israel J., and McNeely.

McNeill, Oxford D., Forest Hill, Ontario, Canada, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Display apparatus. 2,640,289, June 2.

Meade, Lynn C.: *See*—
Hertell, Paul, and Meade.

Meng, Victor W., New Hyde Park, assignor to The Patent Scaffolding Co., Inc., Long Island City, N. Y. Gooseneck connection. 2,640,734, June 2.

Merck & Co., Inc., assignee: *See*—
Wendler, Norman L., and Graber.

Merck & Co., Inc., assignee: *See*—
Wendler, Norman L., Graber, and Haven.

Metzger, Charles: *See*—
Gilbert, Samuel, and Metzger.

Meuser, Courtland G.: *See*—
Morris, Harold B., and Meuser.

Meyer, George L. N., Milwaukee, Wis. Bottle seal for bottle filling machines. 2,640,640, June 2.

Michie, John S., assignor to Reeves Pulley Company, Columbus, Ind. Low-friction variable pulley disk mounting. 2,640,365, June 2.

Miessner, Benjamin F., assignor to Miessner Inventions Inc., Harding Township, Morris County, N. J. Vibratory reed musical instrument. 2,640,384, June 2.

Miessner Inventions Inc., assignee: *See*—
Miessner, Benjamin F.

Miles, Robert C., Charlevoix, Mich. Ventilating attachment for automobiles. 2,640,408, June 2.

Millard, Mark F., assignor to Boeing Airplane Company, Wichita, Kans. Fitting for flexible fuel cells. 2,640,493, June 2.

Miller, Anthony P., Pleasantville, N. J. Electric shaver. 2,640,259, June 2.

Miller, Charles W., Sale, G. Saxon, Stockport, and M. C. Crowley-Milling, Colwyn Bay, England, assignors to General Electric Company. Wave guide elbow joint. 2,640,877, June 2.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Reversing feed gear shaping machine. 2,640,397, June 2.

Miller, George, Wellesley, and E. K. Renz, Dedham, assignors to Knight Leather Products, Inc., Boston, Mass. Toilet case. 2,640,520, June 2.

Miller, Gladys D., assignee: *See*—
Harkenrider, Robert J.

Miller, Raymond E., Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company. Control apparatus for starting, stopping, running, and reversing an internal-combustion engine. 2,640,312, June 2.

Miller, Robert E., East Lansdowne, Pa., assignor to The American Sugar Refining Company, New York, N. Y. Recovery of calcium magnesium aconitate from molasses. 2,640,851, June 2.

Millholland, William K., Jr., Indianapolis, Ind. Boring mill. 2,640,377, June 2.

Milligan, Lowell H., Worcester, and O. J. Whittemore, Jr., Princeton, assignors to Norton Company, Worcester, Mass. Refractory tube. 2,640,503, June 2.

Milone, Louis J., Livingston, N. J., assignor to The Eagle-Picher Company. Triple sliding storm window unit. 2,640,535, June 2.

Mine Safety Appliances Company, assignee: *See*—
Lewis, John M., and Bub.

Minister of Supply in His Majesty's Government, assignee: *See*—
Evans, Cyril G., and Bishop.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Aske, Leonard E., and Thayer.
Rusler, George W.

Missouri Automatic Control Corporation, assignee: *See*—
Cobb, Clifton A.

Moebius, Frederick C., Wheaton, assignor to Teletype Corporation, Chicago, Ill. Motor control device. 2,640,873, June 2.

Mokin, Max, Brooklyn, N. Y. Adjustable partition member for drawers and the like. 2,640,621, June 2.

Möller, Reinhold, Herford, Germany. Mixing and kneading machine. 2,640,688, June 2.

Monsanto Chemical Company, assignee: *See*—
Barrett, Gerald R.
Craver, John K.

Montgomery, Grace M., Inglewood, Calif. Illuminated mirror. 2,640,909, June 2.

Moore, George C., Company, assignee: *See*—
Siciliano, Samuel F.

Moore, Gerald: *See*—
Force, Leonard T., Moore, and Hincks.

Morey, Glen H., assignor to Glas-Col Apparatus Co., Inc., Terre Haute, Ind. Warming device. 2,640,907, June 2.

Morris, Harold B., and C. B. Meuser, Ashland, Ohio. Sterilizing air. 2,640,753, June 2.

Morris, Rupert C.: *See*—
Van Winkle, John L., and Morris.

Morrison, Robert F., Oak Park, assignor to Mars, Incorporated, Chicago, Ill. Candymaking apparatus. 2,640,446, June 2.

Morrow, Frederick L., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Separating end fitting for slide fasteners. 2,640,255, June 2.

Mortimer, Edmund W., and E. W. Wilkins, assignors to The Garrard Engineering and Manufacturing Company Limited, Swindon, England. Phonographs and the like. 2,640,700, June 2.

Mortimer, Edmund W., assignor to The Garrard Engineering & Manufacturing Company Limited, Swindon, England. Control means for phonographs. 2,640,705, June 2.

Moseley, Ernst H., Detroit, Mich. Eyeglass mounting. 2,640,391, June 2.

Motor Products Corporation, assignee: *See*—
Eck, Floyd R., and Chambers.
Robbins, Carl G.

Motorola, Inc., assignee: *See*—
Becwar, Rudolph A.

Moulding, Thomas G., Toledo, Ohio. Casing and sealing means for horns or the like. 2,640,981, June 2.

Mudie, Charles E.: *See*—
Thomson, Hugh M., and Mudie.

Mullen, Florence, Mount Vernon, N. Y. Hairline protector. 2,640,198, June 2.

Muncy, William S., Providence, R. I. Ophthalmic mounting. 2,640,390, June 2.

Munday, Kenneth J. D., Boston, Mass. Protector. 2,640,937, June 2.

Muraszew, Alexander, assignor to C. A. V. Limited, London, England. Liquid fuel injection pump for internal-combustion engines. 2,640,420, June 2.

Murphy, Galen E., Perryton, Tex. Legging with a metal frame. 2,640,281, June 2.

Murphy, Norman B., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Hydraulic servo system. 2,640,370, June 2.

Murray, Corinne M., Yerba Buena Island, Calif. Protective garment with trough means. 2,640,197, June 2.

Myers, Albert F., Berkeley, assignor to Patent Developers, Inc., Detroit, Mich. Torque transmitting connection. 2,640,336, June 2.

Myers, David E., Shell Beach, Calif. Car and produce chilling system. 2,640,328, June 2.

Myre, Clifford R., assignee: *See*—
Robbins, William E.

Nadolny, Clarence J., Bay City, Mich. Fish lure. 2,640,292, June 2.

Nash-Kelvinator Corporation, assignee: *See*—
Sheridan, Eleanor G., Yaeger, and Bjorkaten.

National Malleable and Steel Castings Company, assignee: *See*—
Willison, Donald.
Willison, Donald, and Spence.

National Printing Ink Research Institute, assignee: *See*—
Zettlemoyer, Albert C., and Bernstein.

National Supply Company, The, assignee: *See*—
Long, Spencer W.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Gray, John W.
Hollmann, Hans E.
Ien-Liang Wu, William.
Sherwin, Chalmers W.

Neal, Earl S., San Mateo, Calif. Pump. 2,640,431, June 2.

Neal, Robert A., Media, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignition apparatus for turbojet afterburners. 2,640,316, June 2.

Nelson, Brooks E., assignor to Jaymac Systems, Incorporated, Cleveland, Ohio. Card overlap and adhering machine. 2,640,695, June 2.

Nelson, Gorman R., assignor to Electronic Engineering Company of Sioux Falls, a division of The Iseman Corporation, Sioux Falls, S. Dak. Variable speed magnetic fluid clutch drive. 2,640,364, June 2.

Nelson, John W., Lansing, Ill., assignor, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla. Prevention of corrosion. 2,640,809, June 2.

Nelson, Robert L.: *See*—
Watson, William H., and Nelson.

Newell, Stephens, Mentor, Ohio. Convertible container and closure therefore. 2,640,626, June 2.

Nichols, Charles T., Portland, assignor to Quik Pac Division of H. Wesley Hutchins Company, Auburn, Maine. Apparatus for packaging commodities with trough member supported between plates. 2,640,1318, June 2.

Nicolls, Wilfrid E. W.: *See*—
Evans, Fraser M., and Nicolls.

Nielsen, Fridtjof G., Chicago, Ill. Dredge. 2,640,284, June 2.

Niven, Archie M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Wheel structure. 2,640,729, June 2.

Norbest Turkey Growers Association, assignee: *See*—
George, Fred.

Nordberg Manufacturing Company, assignee: *See*—
Gruender, Oscar C.

Nordby, Roger M.: *See*—
Bell, John F., and Nordby.

Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Valve mechanism with oil collecting device. 2,640,586, June 2.

Norlander, Helge G., Stockholm, Sweden. Grinding wheel dressing apparatus. 2,640,477, June 2.

North American Aviation, Inc., assignee: *See*—
Walt, Louis S.

Northcott, Roy P.: *See*—
Porter, Frederick W. B., and Northcott.

North & Judd Manufacturing Company, The, assignee: *See*—
Morrow, Frederick L.

Northrop Aircraft, Inc., assignee: *See*—
Feeney, Thomas A.

Norton Company, assignee: *See*—
Green, Clarence J.
Hill, Olva E., and Flygare.
Indge, Herbert S.
Milligan, Lowell H., and Whittemore.

O'Brien, James H., assignor to Packard Motor Car Company, Detroit, Mich. Lock-up clutch in a fluid torque converter. 2,640,572, June 2.

O'Leary, Charles M., Los Angeles, Calif. Electric drilling mechanism. 2,640,685, June 2.

Olpe, Werner G., Jamaica, N. Y. Garment hanger of the clamp type. 2,640,633, June 2.

Olson, Alton L., Hackensack, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. System for studying electrical waves. 2,640,927, June 2.

Oman, Carl, Cedar Grove, N. J., and J. R. Clark, West Lafayette, Ind., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Remote metering apparatus. 2,640,974, June 2.

O'Neal, Willie H.: *See*—
Ames, Enos R., Thomas, O'Neal, and Sword.

Orlin, Max, Passaic, N. J. Price tag holder. 2,640,288, June 2.

Orwin, Olaf J. B., assignor to Fisher & Ludlow Limited, Smethwick, England. Conveyer chain. 2,640,585, June 2.

Ostrochovsky, Milan R., Fairlawn, assignor to Standard Button Machine Co., Inc., Paterson, N. J. Button blank slicing machine. 2,640,380, June 2.

Owen, William L., Baton Rouge, La. Enriching sugar with a vitamin component and product derived therefrom. 2,640,778, June 2.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Tiede, Ralph L., and Tooley.

Pacific Car and Foundry Company, assignee: *See*—
Atkins, Victor K.

Packard Motor Car Company, assignee: *See*—
O'Brien, James H.
Wisliicenus, George F.

Pajes, Wolf S., New York, N. Y. Method and apparatus for indicating the movement of material. 2,640,936, June 2.

Palmer, Henry F., Akron, Ohio. Tire construction. 2,640,523, June 2.

Pancake, Herman H., Glen Rock, N. J., assignor to American Car and Foundry Company, New York, N. Y. Double-action door closing device. 2,640,610, June 2.

Panzarella, Nicholas: *See*—
Genco, Frank C., Edmunds, and Panzarella.

Paper Patents Company, assignee: *See*—
Grangaard, Donald H.

Parl, Jack M., Ardsley, N. Y. Garment clasp. 2,640,247, June 2.

Parisi, Jules T., Chicago, Ill. Level indicator operated by air pressure. 2,640,977, June 2.

Parke, Davis & Company, assignee: *See*—
Doub, Leonard.

Parker, William D.: *See*—
Greaves, Charles D., and Parker.

Parkes, Ralph C., Glenside, Pa. Cloth drying machine. 2,640,250, June 2.

Parsons, Joseph R., Chicago, Ill., M. C. Higgs, Bell, Calif., and M. A. Loos, assignors to United States Gypsum Company, Chicago, Ill. Coating composition and fire resistant building element coated therewith. 2,640,786, June 2.

Patent Developers, Inc., assignee: *See*—
Myers, Albert F.

Patent Scaffolding Co., Inc., The, assignee: *See*—
Meng, Victor W.

Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Liquid break circuit breaker. 2,640,897, June 2.

Peacock, Robert, St. Petersburg, Fla. Garment and article hanger. 2,640,508, June 2.

Pecherer, Benjamin, Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Vitamin B_{12} gentisate. 2,640,827, June 2.

Perkin-Elmer Corporation, The, assignee: *See*—
Liston, Max D.

Petersen, William L., West New York, N. J., assignor to Clarke Sanding Machine Company. Rug scrubbing machine. 2,640,211, June 2.

Petro-Chem Process Company Inc., assignee: *See*—
Throckmorton, John W.

Philadelphia Quartz Company, assignee: *See*—
Wills, John H.

Philco Corporation, assignee: *See*—
Lingenbrink, Hermann E. F. C.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Spark plug. 2,640,474, June 2.

Phillips, Harold P., and H. F. Anderson, assignors to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,640,740, June 2.

Phillips Petroleum Company, assignee: *See*—
MacSporran, Charles.
MacSporran, Charles, and Garretson.
Pritchard, James E., and Fryling.
Robinson, Sam P.
Seefluth, Charles L.
Whitney, William B.

Phinney, Edward D., Crestwood, and R. S. Bailey, assignors to International Standard Electric Corporation, New York, N. Y. Amplifier and receiver system. 2,640,917, June 2.

Piano, Dominic A., Chicago, Ill. Coin changer. 2,640,575, June 2.

Pierce, John B., Foundation, assignee: *See*—
Cataldo, John B., and Cook.

Pigford, Robert L., Newark, Del., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Army. Ballistics testing instrument. 2,640,355, June 2.

Pim, Robert N.: *See*—
McClure, William L., and Pim.

Piper, Ronald N., Epsom, assignor to Powers-Samas Accountancy Machines Limited, London, England. Apparatus for cutting lengths from a web of paper, cardboard, or similar material. 2,640,539, June 2.

Pitler, Richard K., Menands, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Titanium base alloys. 2,640,773, June 2.

Pittsburgh Pipe Cleaner Company, assignee: *See*—
Robinson, Kyle I.

Pittsburgh Plate Glass Company, assignee: *See*—
Gloyer, Stewart W., and Vogel.

Plumb, Donald M., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Throttle control with automatic governor. 2,640,551, June 2.

Pollak, Arthur: *See*—
Arles, Robert S., and Pollak.

Pollock, Herbert C., Schenectady, N. Y., assignor to General Electric Company. System and apparatus for obtaining a beam of high energy electrons from charged particle accelerators. 2,640,923, June 2.

Pomeroy, Harold R., Akron, Ohio, assignor to Kut-Kwick Tool Corp., Brunswick, Ga. Belt drive. 2,640,512, June 2.

Porter, Donald K., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for spacing elongate elements. 2,640,664, June 2.

Porter, Frederick W. B., and R. P. Northcott, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Catalytic desulfurization of petroleum hydrocarbons. 2,640,802, June 2.

Potts, Louis M., deceased, Evanston, Ill., by M. W. C. Potts, executrix, Evanston, assignor to Teletype Corporation, Chicago, Ill. Duplex telegraphy system utilizing band compression. 2,640,914, June 2.

Potts, Martha W. C., executrix: *See*—
Potts, Louis M.

Pouchot, Walter D., Prospect Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Combustion apparatus with ignition means therefor. 2,640,321, June 2.

Powell, Wilson M., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Torque compensated galvanometer. 2,640,866, June 2.

Powers, Felix W., Arcadia, Calif. Kink preventing hose insert. 2,640,502, June 2.

Powers-Samas Accounting Machines Limited, assignee: *See*—
Piper, Ronald N.

Preble, Norman H., Grosse Pointe, Mich., and W. A. Goss, Zanesville, Ohio, assignors to Detroit Harvester Company, Detroit, Mich. Tractor drawbar and drive shaft bearing assembly. 2,640,711, June 2.

Prescott, Isaac S., Orlando, Fla. Spray gun. 2,640,726, June 2.

Pressnall, Charles A., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Sash corner joint construction. 2,640,567, June 2.

Price, Lester P., Detroit, assignor to Win-Sum Window Corporation, Van Dyke, Mich. Storm window construction. 2,640,232, June 2.

Price, Raymond F., Tucson, Ariz. Clothes hanger. 2,640,632, June 2.

Pritchard, James E., Lafayette, Ind., and C. F. Fryling, Phillips, Tex., assignors to Phillips Petroleum Company. Polymerization process. 2,640,821, June 2.

Proctor, Ronald R.: *See*—
Ellison, Lyon E., and Proctor.

Probaska, Joseph F., Los Angeles, Calif. Electrolyte level indicating attachment. 2,640,976, June 2.

Prupis, Nathan, assignor of one-half to R. G. Grossman, Seattle, Wash. Illuminated bead covering. 2,640,980, June 2.

Puerner, Erving A., assignor to Shallcross Controls, Inc., Milwaukee, Wis. Hydraulic steering mechanism. 2,640,322, June 2.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Johnsen, Iver, Jr.

Pulp and Paper Research Institute of Canada, assignee: *See*—
Ross, James H., Hart, Strapp, and Maass.

Pure Oil Company, The, assignee: *See*—
Ellison, Lyon E., and Proctor.

Pyle National Company, The, assignee: *See*—
Raider, George K., and Little.

Quaker State Metals Company, assignee: *See*—
Hume, William G.

Quik Pac Division of H. Wesley Hutchins Company, assignee: *See*—
Nichols, Charles T.

Radio Corporation of America, assignee: *See*—
Hansell, Clarence W.
Harbaugh, Willis E., and Garner.
Wentworth, Chandler, and Donley.
Swanson, Henry T.

Ragan, Thomas M.: *See*—
Baker, Reuben C., and Ragan.

Raider, George K., and E. J. Little, assignors to The Pyle National Company, Chicago, Ill. Apparatus for air volume control in ventilating systems. 2,640,410, June 2.

Ramadanoff, Dimiter, Berea, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Electrical contact brush. 2,640,944, June 2.

Rand, H. J., Washing Machine Corp., assignee: *See*—
Rand, Henry J.

Rand, Henry J., Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., South Bend, Ind. Extracting liquids from wet materials. 2,640,342, June 2.

Rand, James H., Jr., Darien, Conn., assignor to Remington Rand Inc., New York, N. Y. Magnetizable record element. 2,640,647, June 2.

Ransburg Electro-Coating Corp., assignee: *See*—
Stoddard, Harold K.

Ray, Nell H.: *See*—
Buckley, Gerard D., and Ray.

Raybestos-Manhattan, Inc., assignee: *See*—
Bertolet, Elmer C., Jr.

Rechtin, Clarence R., and W. P. Bruestle, assignors to The J. H. Day Company, Inc., Cincinnati, Ohio. Proofer tray. 2,640,583, June 2.

Reed, Buckley R., Louisville, Ky., assignor to the United States of America as represented by the Secretary of the Army. Draft diverter. 2,640,413, June 2.

Reed, Charles C.: *See*—
Weidenheimer, Joseph F., Reed, Ritter, and Upham.

Reeder, Harry J., Buffalo, N. Y. Utility holder for automobiles. 2,640,506, June 2.

Reeve, Robert E., Tracy, Calif. Valve for milking systems. 2,640,497, June 2.

Reeves Pulley Company, assignee: *See*—
Michie, John S.

Refining, Unincorporated, assignee: *See*—
Mattikow, Morris.

Reget, George, St. Albans, N. Y. Automatic baking machine. 2,640,444, June 2.

Reget, George, Great Neck, N. Y. Cake baking pan means and dumping mechanism therefor. 2,640,445, June 2.

Reifsnyder, Gladford A., assignor to The Timken Roller Bearing Company, Canton, Ohio. One-piece forged steel railway journal box. 2,640,737, June 2.

Reiss Manufacturing Corporation, assignee: *See*—
Johnson, Fred I.

Remington Rand Inc., assignee: *See*—
Duff, Alexander G.
Rand, James H., Jr.

Renz, Emil K.: *See*—
Miller, George, and Renz.

Rexel Products of Canada Limited, assignee: *See*—
Denkin, William H.

Reyrolle, A., & Company Limited, assignee: *See*—
Leyburn, Henry.

Rice, Cyrus W., Pittsburgh, Pa. Waste disposal. 2,640,507, June 2.

Rickenback, William, assignor to Draper Corporation, Hopedale, Mass. Bobbin holder. 2,640,507, June 2.

Rieser, John D., San Francisco, Calif. Unimount drive power transmission unit. 2,640,367, June 2.

Rigaminont, Victor A., Pittsburgh, Pa. Double wall of plastic filled interlocked blocks. 2,640,348, June 2.

Ritter, Lawrence: *See*—
Weidenheimer, Joseph F., Reed, and Upham.

Robb, Clarence C., and H. M. Zimmerman, Dunbar, W. Va. Automatic coating and draining machine. 2,640,584, June 2.

Robbins, Carl G., Des Plaines, Ill., assignor to Motor Products Corporation, Detroit, Mich. Refrigerator cabinet structure, including receptacle and mounting therefor. 2,640,751, June 2.

Robbins, William E., assignor to C. R. Myre, Paynesville, Minn. Antenna. 2,640,882, June 2.

Robbins, William P.: *See*—
Knapp, George P., Burns, Robbins, and Zwack.

Roberts, Fred G., Lakewood, Ohio, assignor to Union Carbide and Carbon Corporation. Resilient pad for electrical contact brushes. 2,640,943, June 2.

Roberts, Ingham S., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Magnetic stopping device. 2,640,310, June 2.

Roberts, Maurice, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Variable width wrapper strip guide for sewing machines. 2,640,448, June 2.

Roberts, William C., assignor to Bone Tool & Gauge Company, Detroit, Mich. Pot type burner for liquid fuel. 2,640,530, June 2.

Robertson, Jackson P., Columbus, Miss. Multiple lift type disk harrow. 2,640,307, June 2.

Robinson, Kyle I., Glenshaw, assignor to Pittsburgh Pipe Cleaner Company, Pittsburgh, Pa. Hydraulic propelling unit for pipe cleaners. 2,640,213, June 2.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of ammonium sulfate and calcium carbonate. 2,640,757, June 2.

Rockett, John F., Jr., Medford, assignor to Columbia Broadcasting System, Inc., Salem, Mass. Coating control system. 2,640,788, June 2.

Roe, A. V., Canada Limited, assignee: *See*—
Secord, Lloyd C.

Roe, Carl W. and S. T., Houston, Tex. Alarm system. 2,640,975, June 2.

Roe, Sidney T.: *See*—
Roe, Carl W., and S. T.

Rohde, Per J., Oslo, Norway. Tailor's worktable top. 2,640,750, June 2.

Rohm & Haas Company, assignee: *See*—
Hurwitz, Melvin D., and Auten.

Rollings, Robert C., New Castle, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Shell loading device. 2,640,386, June 2.

Root, John J., New York, N. Y. Directional antenna. 2,640,931, June 2.

Roscoe, Merrill W., Moline, Ill., and R. L. Beldin, Davenport, Iowa, assignors to Deere & Company, Moline, Ill. Hopper and extension conveyer mechanism for small grain elevators. 2,640,577, June 2.

Rosenberg, Lawrence: *See*—
Stachover, Leo, and Rosenberg.

Rosenleaf, John R., assignor to The J. B. Ehrsam & Sons Manufacturing Co., Enterprise, Kans. Drive for adjustable-axis mating rotors. 2,640,371, June 2.

Ross, James H., J. S. Hart, R. K. Strapp, and O. Maass, assignors, by mesne assignments, to Pulp and Paper Research Institute of Canada, Montreal, Quebec, Canada. Production of cellulose pulp. 2,640,774, June 2.

Rossi, Harald H., Orangeburg, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Radiation current source. 2,640,953, June 2.

Rowe, Louis F.: *See*—
Sheard, Samuel T., and Rowe.

Roy, Milton, Company, assignee: *See*—
Saalfrank, Royal B.

Rusler, George W., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic control apparatus for heating systems. 2,640,649, June 2.

Russell Manufacturing Company, Incorporated, The, assignee: *See*—
Russell, Robert A.

Russell, Robert A., Alexander City, Ala., assignor to The Russell Manufacturing Company, Incorporated. Yarn carrier and adapter for package dyeing. 2,640,341, June 2.

Ryder, Irvin C., Arlington, Va. Compartmented container. 2,640,623, June 2.

Saalfrank, Royal B., Gulfport, Fla., assignor to Milton Roy Company, Philadelphia, Pa. Stroke adjustment device. 2,640,425, June 2.

Sabatino, Joseph, Dayton, Ohio. Carrying case for fishing rods. 2,640,622, June 2.

Saco-Lowell Shops, assignee: *See*—
Burnham, Virgil A.
Gwaltney, Eugene C.

Saffert, George J., New Ulm, Minn. Apparatus for producing ventilated staves or blocks. 2,640,248, June 2.

Sanders, Elmore J., San Gabriel, J. A. Wiens, Burbank, and E. J. McClave, Los Angeles, Calif., said Wiens and said McClave, assignors to said Sanders. Engine cleaning equipment. 2,640,724, June 2.

Sanders, Walter F., Tacoma, Wash. Means of withholding braking action when an hydraulic brake is released. 2,640,563, June 2.

Sandos, A. G., assignee: *See*—
Ischer, Hana, Iselin, and Wehrli.

Sanford, Hugh W., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Latch tripping mechanism. 2,640,608, June 2.

Sanford Investment Company, The, assignee: *See*—
Jones, Robert E.
Sanford, Hugh W.

Särenholm, Einar, Eskilstuna, assignor to Svartvika Aktieboing, Sundsvall, Sweden. Pivot hinge for windows. 2,640,221, June 2.

Sargent & Company, assignee: *See*—
Wardwell, George W., Jr.

Sarti, Joseph, New York, N. Y. Inlay extractor. 2,640,266, June 2.

Sawicki, Stanley J., East Hempstead, N. Y. Device for testing fluid pressure lines. 2,640,492, June 2.

Saxon, Godfrey: *See*—
Miller, Charles W., Saxon, and Crowley-Milling.

Schaaf, Clarence, Findlay, Ohio. Humidifier radiator cap. 2,640,689, June 2.

Schek, Leonard E.: *See*—
Foster, Thomas W., Schek, and Bradley.

Scheuring, Charles E., assignor to Emerson-Scheuring Tank and Manufacturing Company, Inc., Indianapolis, Ind. Separable pressure vessel quick clamp. 2,640,717, June 2.

Schieler, Albert M., St. Louis, and E. C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Railway vehicle framing. 2,640,443, June 2.

Schjolin, Hans O., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Fluid actuator clutch control. 2,640,368, June 2.

Schlumberger Well Surveying Corporation, assignee: *See*—
Zimmerman, Carl W.

Schmidt, Karl O., Idar-Oberstein, Germany. Travel alarm clock with sliding case. 2,640,668, June 2.

Schmidt, Paul: *See*—
Druey, Jean, and Schmidt.

Schmutzler, Alfred F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Tall oil-polyamino-aldehyde reaction product. 2,640,814, June 2.

Schneider, Carl, Rapid City, S. Dak. Step adjusting separable fastener. 2,640,239, June 2.

Schneiderman, Eli, Hillside, N. J. Fitting for electrical conduits. 2,640,619, June 2.

Scholfield, Keith R., East Moline, assignor to Deere & Company, Moline, Ill. Plow. 2,640,404, June 2.

Schrader, Gerhard, Opladen-Bruchhausen, assignor to Farbenfabriken Bayer, Leverkusen, Germany. Production of neutral esters of thiolphosphoric acid. 2,640,847, June 2.

Schroen, Charles A., Durango, Colo. Traction attachment for automobile wheels. 2,640,522, June 2.

Schroenghamer, George, St. Paul, Minn., assignor by mesne assignments, to Fenn Bros., Inc., Sioux Falls, S. Dak. Article transfer for conveyer organization. 2,640,578, June 2.

Schuhr, William C., Carpentersville, Ill. Cloth-covered button. 2,640,238, June 2.

Schutt, Walter G., assignor to Stearns Manufacturing Company, Adrian, Mich. Conveyer. 2,640,579, June 2.

Schweiter, Walter, Horgen, Switzerland, assignor to Maschinenfabrik Schweiter A. G. Thread supply mechanism. 2,640,654, June 2.

Scordo, Carmine R., South Norwalk, and G. W., and F. L. Wassell, assignors to G. P. Wassell, Westport, Conn. Inventory aging display device. 2,640,457, June 2.

Scott, Floyd L.: *See*—
Scott, Fred A., and F. L.

Scott, Fred A., Midland, and F. L. Scott, assignors to Hughes Tool Company, Houston, Tex. Stabilizer for drill collars and drill pipe. 2,640,735, June 2.

Scott, Thomas R., and W. K. Weston, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Tube and its manufacture. 2,640,501, June 2.

Seray, Eugene J., Sr., Bound Brook, N. J. Level control. 2,640,361, June 2.

Screen Printing Machinery Limited, assignee: *See*—
Freeborn, James E.

Scullin Steel Co., assignee: *See*—
Hohn, Frank X. and F. H.

Seaver, Jay J., Evanston, Ill. Means for separating solids from exhaust gases of open-hearth furnaces. 2,640,692, June 2.

Secor, Hubert B., Gig Harbor, Wash. Oyster preparing machine. 2,640,223, June 2.

Secord, Lloyd C., Toronto, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Gas turbine starter mounting. 2,640,315, June 2.

Seefluth, Charles L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Liquid level indicator. 2,640,269, June 2.

Seeler, Henry, Dayton, Ohio. Resuscitator using an auxiliary gas conserving valve. 2,640,479, June 2.

Seitz, Rudolph O., East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Method of and apparatus for analysing gases. 2,640,870, June 2.

Sennet, Morgan B., assignor to De Laval Steam Turbine Company, Trenton, N. J. Screw pump or motor. 2,640,430, June 2.

Sensel, Eugene E.: *See*—
Beck, Roland A., and Sensel.

Seruto, Joseph, Meriden, Conn., assignor to American Cyanamid Company, New York, N. Y. Azo derivatives of carbostyril. 2,640,825, June 2.

Shallcross Controls, Inc., assignee: *See*—
Puerner, Erving A.

Shanahan, Richard J., Wilmette, Ill. Rack attachment for folding tables. 2,640,740, June 2.

Shannon, Jack F., Euclid, Ohio, assignor to Bailey Meter Company. Variable orifice flowmeter. 2,640,356, June 2.

Shapiro, Mitchell, Pittsfield, Mass. Viewer for cameras. 2,640,388, June 2.

Share, Barnett, Jamaica Estates, N. Y. Well point construction. 2,640,545, June 2.

Shatto, David L., Riverside, assignor to California Spray-Chemical Corporation, Richmond, Calif. Tetraethyl pyrophosphate insecticide. 2,640,800, June 2.

Shawinigan Chemicals Limited, assignee: *See*—
Germain, Leo M.

Sheard, Samuel T., Sturbridge, Mass., and L. F. Rowe, North Woodstock, Conn., assignors to American Optical Company, Southbridge, Mass. Forming a multifocal lens. 2,640,299, June 2.

Sheldon, Werner H., New York, N. Y. Cabinet type folding crib. 2,640,203, June 2.

Shell Development Company, assignee: *See*—
Harman, Denham, and Sommer.
Harman, Denham, and Winkler.
Illman, John C., and Sommer.
Van Winkle, John L., and Morris.
Whetstone, Richard R., and Ballard.

Shellmar Products Corporation, assignee: *See*—
Comstock, Alfred E.
Cox, John W.

Shenk, Robert H., assignor to American Flexible Coupling Company, Erie, Pa. Synchroniser clutch. 2,640,573, June 2.

Sheppard, Creedy C., Bergenfield, N. J. Plural solenoid electromagnetic valve. 2,640,406, June 2.

Sheridan, Eleanor G., Chicago, L. L. Yaeger, Hammond, Ind., and J. Bjorksten, Chicago, Ill., assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Antistatic coating for plastics. 2,640,817, June 2.

Sherwin, Chalmers W., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Condenser servo mechanism. 2,640,954, June 2.

Sherwin, Chalmers W., Leonia, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Gating system for plan position indicators. 2,640,984, June 2.

Shomber, Kerian J., Oakland, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Separable headed fastening device. 2,640,246, June 2.

Sias, Arthur C., Weston, Conn., assignor to Commercial Decal, Inc., Mount Vernon, N. Y. Machine for printing and powdering sheets. 2,640,458, June 2.

Sichak, William, Lyndhurst, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Circularly polarized antenna arrangement for radar. 2,640,915, June 2.

Siciliano, Samuel F., assignor to George C. Moore Company, Westerly, R. I. Elastic fabric. 2,640,508, June 2.

Siegel, John A., Detroit, Mich. Exercising cage. 2,640,460. June 2.

Sieggreen, Richard L., Saginaw, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Automatic handling and hardness testing mechanism. 2,640,591, June 2.

Sikorsky, Igor I., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Combined air fan and clutch for engine cooling. 2,640,469, June 2.

Silvers, Charles, Miami Beach, Fla. Jalousie window. 2,640,233, June 2.

Silverstein, Daniel J., assignee: *See*—
Wodetzky, Elmer.

Simpson, Alice H., Santa Barbara, Calif. Foot support and warmer for beds. 2,640,205, June 2.

Simpson, Frank R., Upper Darby, Pa., assignor to the United States of America as represented by the Secretary of the Army. Tool for belt loading preengraved projectiles with cartridge cases. 2,640,387, June 2.

Sinclair Oil and Gas Company, assignee: *See*—
Nelson, John W.

Skinner, Robert E., Fairview Park, and G. H. McIntyre, Cleveland Heights, Ohio, assignors to Ferro Corporation. Apparatus for producing porcelain enamel. 2,640,859, June 2.

Slack, Frederic W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Wheel structure. 2,640,728, June 2.

Smith, Dudley H., Brooklyn, N. Y. Record changer. 2,640,703, June 2.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Corporation, New York, N. Y. Manifolding typewriter. 2,640,576, June 2.

Smith, Kline & French Laboratories, assignee: *See*—
Campbell, Kenneth N., and Ullyot.
Wilson, James W., III, and Ullyot.

Smith, Mabel B., Los Angeles, Calif. Disposable tissue dispenser and container. 2,640,587, June 2.

Smith, Nellie B., Mellwood, Ark. Pusher type coupler. 2,640,709, June 2.

Smits, Wytze B., Voorburg, assignor to Smitsvonk N. V., Rijswijk, Netherlands. Surface discharge spark plug for low voltages and condenser discharge. 2,640,473, June 2.

Smitsvonk N. V., assignee: *See*—
Smits, Wytze B.

Societe d'Etudes et de Modernisations pour l'Industrie Textile (S. A. R. L.), assignee: *See*—
Leblanc, Maurice E.

Sommer, Harry J.: *See*—
Harman, Denham, and Sommer.
Illman, John C., and Sommer.

Sörensen, Harald M., Fruens Boge, Denmark, and H. Forssell, Ludvika, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Spare connected polyphase transductor. 2,640,963, June 2.

South Chester Corporation, assignee: *See*—
Hale, William C., Jr.

Spahn, Edward C., Portsmouth, Va. Double-acting master cylinder brake control. 2,640,324, June 2.

Spang, William F., Cambridge, assignor to Cube Steak Machine Co., Needham Heights, Mass. Shaft mounting and driving assembly. 2,640,334, June 2.

Speedry Products, Inc., assignee: *See*—
Gottlieb, Max C.

Spence, Hubert L.: *See*—
Willison, Donald, and Spence.

Spence, John, and B. H. Carroll, assignors to Eastman Kodak Company, Rochester, N. Y. Sensitized photographic emulsion containing color couplers. 2,640,776, June 2.

Spicer, Curtis D., Warren, Pa., assignor to Sylvania Electric Products, Inc. Automatic assembling machine. 2,640,617, June 2.

Spindler, Joseph C., Chicago, Ill., assignor to Zenith Radio Corporation. Dual range antenna. 2,640,933, June 2.

Spink, Leland K., Foxboro, Mass. Pneumatic gun. 2,640,476, June 2.

Spon, John, London, England. Pivot for shears. 2,640,262, June 2.

Spracklen, Stanford B., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Mass spectrometer control. 2,640,935, June 2.

Stalzer, Ralph V., Renwick, Iowa. Switch actuating device for hay balers. 2,640,893, June 2.

Stamm, Heinrich, assignor to ETA AG., Ebauches-Fabrik, Grenchen, Switzerland. Winding and setting mechanism for watch and clock movements and the like. 2,640,311, June 2.

Standard Button Machine Co., Inc., assignee: *See*—
Ostrochovsky, Milan R.

Standard Gage Company, Inc., assignee: *See*—
Aldeborgh, Erik H.

Standard Mirror Company, assignee: *See*—
Berteil, Paul, and Meade.

Standard Oil Company, assignee: *See*—
Beretvas, Helen S.

Standard Oil Development Company, assignee: *See*—
Boucher, Frank G.

Stange, Delmar, assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Cutting shoe for bagmaking machines. 2,640,540, June 2.

Staschover, Leo, Jamaica, and L. Rosenberg, Elmhurst, assignors to International Standard Electric Corporation, New York, N. Y. Phase detector. 2,640,939, June 2.

Stautzenberger, Adin L.: *See*—
MacLean, Alexander F., and Stautzenberger.

Stearns Manufacturing Company, assignee: *See*—
Schutt, Walter G.

Stephenson, William V., Toledo, Ohio. Apparatus for the diagnosis and the control of treatment of diseases of the eye. 2,640,357, June 2.

Steddard, Harold K., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind. Electrostatic detearing apparatus. 2,640,459, June 2.

Stokes, Irving, Neptune, N. J., and L. P. Brooks, Washington, D. C. Pulse-echo signal display system. 2,640,983, June 2.

Stone, George M., Westfield, N. J., assignor to American Can Company, New York, N. Y. Can closing machine with flange suspension support. 2,640,452, June 2.

Stone, Irving, Chicago, Ill. Child's drawing device. 2,640,280, June 2.

Stout, Frederick S., Ardmore, Pa. Skin burning treatment. 2,640,343, June 2.

Strapp, Richard K.: *See*—
Koss, James H., Hart, Strapp, and Maass.

Strasser, Peter H. A.: *See*—
Hatt, Harold H., Strasser, and Troyahn.

Stryker, Garrett B., Fullerton, assignor to Hunt Foods, Inc., Los Angeles, Calif. System of can transfer. 2,640,639, June 2.

Sullivan, Cecil J., and W. B. Wright, Modesto, Calif. Thumb guide shear handle. 2,640,264, June 2.

Sun Oil Company, assignee: *See*—
Hill, Claude I.
McClure, William L., and Pim.

Sundholm, Norman K., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Production of organic sulfonyl hydrazides. 2,640,853, June 2.

Sunnen, Joseph, Clayton, Mo. Valve guide driver. 2,640,256, June 2.

Svartvika Aktieboiag, assignee: *See*—
Särenholm, Einar.

Svit, narodni podnik, assignee: *See*—
Charvát, Bohumil.

Swan-Finch Oil Corporation, assignee: *See*—
Bryant, William C.

Swanson, Henry T., Lancaster, Pa., assignor to Radio Corporation of America. Hydrogen pressure control for hydrogen filled discharge tubes. 2,640,952, June 2.

Swanson, Oscar W., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Ribbon spool. 2,640,658, June 2.

Swartz, Saul N., Cambridge, Mass. Furniture construction. 2,640,202, June 2.

Swasey, Samuel E.: *See*—
Kulberg, August E., Terry, and Swasey.

Swayze, Harry E.: *See*—
Easley, John A., and Swayze.

Sweger, Russell P., assignor to Barber-Colman Company, Rockford, Ill. Adjustable grille. 2,640,412, June 2.

Sword, Frank P.: *See*—
Ames, Enos R., Thomas, O'Neal, and Sword.

Sylvania Electric Products Inc., assignee: *See*—
Kulberg, August E., Terry, and Swasey.
Spicer, Curtis D.

Symington-Gould Corporation, The, assignee: *See*—
Blattner, Emil H.

Symons, Arthur H., assignor to Symons Clamp & Manufacturing Company, Chicago, Ill. Wall form panel. 2,640,249, June 2.

Symons Clamp & Manufacturing Company, assignee: *See*—
Symons, Arthur H.

Taggart, Robert J.: *See*—
Lewis, Charles R., and Taggart.

Talley, Calvin C., Levelland, Tex. Clearance lamp for vehicles. 2,640,910, June 2.

Talucci, Samuel, Philadelphia, Pa. Burglar alarm. 2,640,435, June 2.

Tarney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. N-(halomethyl)-maleimide and preparing the same. 2,640,832, June 2.

Taylor, Clarence E., and S. J. Gwoosh, Newark, N. J. Retractable pocket knife. 2,640,260, June 2.

Taylor, Eugene D., Kenosha, Wis. Rotary reciprocating pump drive. 2,640,302, June 2.

Taylor, Taylor & Hobson Limited, assignee: *See*—
Wreathall, William M.

Teletype Corporation, assignee: *See*—
Moebius, Frederick C.
Potts, Louis M.

Teot, Arthur S., and G. C. Wiggins, assignors to The Dow Chemical Company, Midland, Mich. Production of water-soluble resin sulphonates. 2,640,820, June 2.

Tepper, Joseph S., Monrovia, Calif. Safety rail attachment for stepladders. 2,640,641, June 2.

Terry, Roger M.: *See*—
Kulberg, August E., Terry, and Swasey.

Te Strake, Lambertus, Deurne, Netherlands. Thread tensioning device. 2,640,662, June 2.

Tewksbury, Lyndon B., Jr., Potsdam, N. Y., and S. S. Heikkila, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Dithiocarbamates and derivatives thereof. 2,640,834, June 2.

Texas Company, The, assignee: *See*—
Beck, Roland A., and Sensel.
Malin, Jay B.

Thayer, James A.: *See*—
Aske, Leonard E., and Thayer.

Thomas, Oscar H.: *See*—
Ames, Enos R., Thomas, O'Neal, and Sword.

Thompson, Ellis, West Palm Beach, Fla. Layout instrument. 2,640,268, June 2.

Thompson, Millard R., assignor to Hamilton Watch Company, Lancaster, Pa. Detonating mechanism for time fuses. 2,640,418, June 2.

Thompson Products, Inc., assignee: *See*—
Booth, James H.

Thomson, Hugh M., and C. E. Mudle, St. Catharines, Ontario, Canada, assignors to Foster Wheeler Corporation, New York, N. Y. Fuel feeding apparatus with vibratory hopper. 2,640,629, June 2.

Thomson, John C., assignor to The Beaverbrook Moulding Company, Anaonia, Conn. Folding utility lunch tray. 2,640,597, June 2.

Throckmorton, John W., assignor to Petro-Chem Process Company Inc., New York, N. Y. Flow arrangement for multipass heaters. 2,640,687, June 2.

Tiede, Ralph L., Newark, Ohio, and F. V. Tooley, Urbana, Ill., assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Composition of glass, especially for fibers. 2,640,784, June 2.

Times Facsimile Corporation, assignee: *See*—
McConnell, Kenneth R., and Marzan.

Timken Roller Bearing Company, The, assignee: *See*—
Reifsnyder, Gladford A.

Tindall, John B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of N-methyl-1-isobutylisopentylamine. 2,640,855, June 2.

Titeflex, Inc., assignee: *See*—
Carr, Robert S.

Tooley, Fay V.: *See*—
Tiede, Ralph L., and Tooley.

Tornblom, Nils A., assignor to Appleton Electric Company, Chicago, Ill. Double beam automotive spotlight. 2,640,912, June 2.

Toth, Joe: *See*—
Johnson, Myron A. C., and Toth.

Tournier, Marcel C., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Band pass filter. 2,640,879, June 2.

Trammell, Earl M., Jr.: *See*—
Trammell, Earl M., Sr., and E. M. Trammell, Jr.

Trammell, Earl M., Sr., and E. M. Trammell, Jr., St. Louis, Mo. Counterbalance tape connecting means. 2,640,222, June 2.

Troeger, Henry, Ramsey, assignor to Bendix Aviation Corporation, Teterboro, N. J. Starter jaw advancing mechanism. 2,640,360, June 2.

Trofimov, Lev A., Willoughby, Ohio. Hydrodynamic gear transmission. 2,640,375, June 2.

Troyahn, William J.: *See*—
Hatt, Harold H., Strasser, and Troyahn.

Turner, George L., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Industrial truck. 2,640,611, June 2.

Tyrrell, Cecil C.: *See*—
Johnson, Raymond C., and Tyrrell.

Ullyot, Glenn E.: *See*—
Campbell, Kenneth N., and Ullyot.
Wilson, James W., III, and Ullyot.

Ulmer, Richard C., Tuckahoe, assignor to E. F. Drew & Co., Inc., New York, N. Y. Method of and material for treating water. 2,640,808, June 2.

Underwood Corporation, assignee: *See*—
Smith, Jesse A. B.
Swanson, Oscar W.

Union Carbide and Carbon Corporation, assignee: *See*—
Binder, William O.
Lundquist, Adolph Q.
Ramadanoff, Dimiter.
Roberts, Fred G.

United Aircraft Corporation, assignee: *See*—
Plumb, Donald M.
Sikorsky, Igor I.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Bedford, William A., Jr.
Carbary, Edward M.
Coyle, William J.
Jones, Walter I.
Shomber, Kerlan J.

United Shoe Machinery Corporation, assignee: *See*—
Ashworth, Fred.
Roberts, Maurice.
Welch, Edward S., Jr.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Cook, Leslie J.
McMillan, Edwin M.
Powell, Wilson M.
Rossi, Harald H.
Spracklen, Stanford B.

United States Gypsum Company, assignee: *See*—
Parsons, Joseph R., Higgs, and Loos.

United States Rubber Company, assignee: *See*—
Sundholm, Norman K.
Tawney, Pliny O.
Tewksbury, Lyndon B., Jr., and Heikkila.

Universal Oil Products Company, assignee: *See*—
Bloch, Herman S., and Hoffman.

Upham, Sidney D.: *See*—
Weidenheimer, Joseph F., Reed, Ritter, and Upham.

Vadolt Trust, assignee: *See*—
Doelter, Gandolph C.

Vaillancourt, Eugene J., Fitchburg, Mass. Artificial denture and manufacture. 2,640,265, June 2.

Vaisey, Samuel J., assignor to Hickok Manufacturing Co. Inc., Rochester, N. Y. Detachable key ring. 2,640,237, June 2.

Vance, John J.: *See*—
Burkhart, Robert L., and Vance.

Van Wie, John A., Portland, Oreg. Drapery support. 2,640,601, June 2.

Van Winkle, John L., San Lorenzo, and R. C. Morris, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Chlorinated polymers of branched chain 1,3-hexadienes. 2,640,857, June 2.

Veaux, Henri M., St.-Leu-la-Foret, France, assignor to International Standard Electric Corporation, New York, N. Y. Multichannel electrical pulse communication system. 2,640,881, June 2.

Velodota, Anthony D., Southington, Conn. Multipurpose pocket-type toothbrush and dentifrice appliance. 2,640,488, June 2.

Verderber, Joseph, assignor to The Cleveland Universal Jig Company, Cleveland, Ohio. Index table. 2,640,400, June 2.

Villars, Julio, Geneva, Switzerland. Lifting appliance for vehicles. 2,640,562, June 2.

Viscardi, John E.: *See*—
Bowen, William S., and Viscardi.

Vogel, Henry A.: *See*—
Gloyer, Stewart W., and Vogel.

Votypka, John W., assignor to Detroit Harvester Company, Detroit, Mich. Drum type unit installation. 2,640,682, June 2.

Wahl Clipper Corporation, assignee: *See*—
Wahl, Leo J.

Wahl, Leo J., assignor to Wahl Clipper Corporation, Sterling, Ill. Transmission for electric hair clippers. 2,640,261, June 2.

Wahlmark, Gunnar A., Rockford, Ill. Fluid seal. 2,640,736, June 2.

Wait, Louis S., Beverly Hills, Calif., assignor to North American Aviation, Inc. Piston seal. 2,640,745, June 2.

Waldorf Paper Products Company, assignee: *See*—
Guyer, Reynolds.
Hennessey, Russell J., and Jameson.

Walklet, Mercer D., assignor to The Hamlin Metal Products Company, Akron, Ohio. Collapsible container. 2,640,620, June 2.

Walzak, Michael P., Winnipeg, Manitoba, Canada. Collapsible stand. 2,640,294, June 2.

War, United States of America as represented by the Secretary of, assignee: *See*—
Bjork, Carold F., and Hondy.

Wardwell, George W., Jr., Trumbull, assignor to Sargent & Company, New Haven, Conn. Door lock. 2,640,345, June 2.

Wassell, Frank L.: *See*—
Scordo, Carmine R., and G. W. and F. L. Wassell.

Wassell, George W.: *See*—
Scordo, Carmine R., and G. W. and F. L. Wassell.

Wassell, Georgene P., assignee: *See*—
Scordo, Carmine R., and G. W. and F. L. Wassell.

Watson, William H., and R. L. Nelson, assignors to Corinth Machinery Co., Corinth, Miss. Hydraulically actuated auxiliary assembly for sawmills. 2,640,513, June 2.

Wedel, Charles, Minden, Iowa. Tire carting dolly. 2,640,615, June 2.

Wehrli, Walter: *See*—
Ischer, Hans, Iselin, and Wehrli.

Weidenheimer, Joseph F., and C. C. Reed, Pearl River, L. Ritter, Spring Valley, and S. D. Upham, Pearl River, assignors to American Cyanamid Company, New York, N. Y. Metal-aureomycin complexes. 2,640,842, June 2.

Welmer, William C., Jackson, Mich. Adjustable buckle for the body of artificial limbs. 2,640,242, June 2.

Weir, Casper J. Jr.: *See*—
Weir, Leander M. and C. J.

Weir, Donald A.: *See*—
Hartley, George C., and Weir.

Weir, Leander M., United States Navy, and C. J. Weir, Jr., San Luis Obispo, Calif. Telegraphic code converter. 2,640,876, June 2.

Welch, Edward S., Jr., Framingham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for progressively bonding sheet material. 2,640,908, June 2.

Wells, Franklin B., assignor of one-half to Ellis-Foster Company, Montclair, N. J. Tangential and rotational motion indicating device. 2,640,278, June 2.

Wendler, Norman L., Summit, R. P. Graber, Elizabeth, and A. C. Haven, Jr., Linden, assignors to Merck & Co., Inc., Rahway, N. J. $\Delta^{9(11)}$-pregnenes and process. 2,640,838, June 2.

Wendler, Norman L., Summit, and R. P. Graber, Elizabeth, assignors to Merck & Co., Inc., Rahway, N. J. $\Delta^{9(11)}$-pregnenes and process. 2,640,839, June 2.

Wentworth, Chandler, and H. L. Donley, Princeton, N. J. assignors to Radio Corporation of America. Automatic frequency control. 2,640,918, June 2.

West End Chemical Company, assignee: *See*—
Wiseman, James V.

Western Electric Company, Incorporated, assignee: *See*—
Davis, Charles C.

Westinghouse Air Brake Company, assignee: *See*—
Cotter, George L.
Gorman, Andrew T.
Miller, Raymond E.

Westinghouse Electric Corporation, assignee: *See*—
Alsing, Carl F.
Huchanan, Lloyd W.
Hills, Elmer G.
Neal, Robert A.
Oman, Carl, and Clark.
Pouchot, Walter D.

Weston, William K.: *See*—
Scott, Thomas R., and Weston.

Wheatley, John B., A. W. Gaubatz, and C. C. Anderson, Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich. Turbine or compressor stator ring. 2,640,679, June 2.

Wheeler, Gerald E., Blytheville, Ark. Implement hitch. 2,640,405, June 2.

Whetstone, Richard R., Berkeley, and S. A. Ballard, Orinda, assignors to Shell Development Company, San Francisco, Calif. Resinous products from dihydropyran derivatives and producing the same. 2,640,815, June 2.

White, Gerald C., Macon, Ill. Safety cutoff switch for tractors. 2,640,898, June 2.

Whiting Corporation, assignee: *See*—
Griffiths, Clyde C.
Holmes, Louis D., and Hammond.

Whitney, William B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Purification of substituted aromatic compounds. 2,640,804, June 2.

Whittemore, Osgood J., Jr.: *See*—
Milligan, Lowell H., and Whittemore.

Wiens, John A.: *See*—
Sanders, Elmore J., Wiens, and McClave.

Wiggins, Glenn C.: *See*—
Teot, Arthur S., and Wiggins.

Wilkins, Edward W.: *See*—
Mortimer, Edmund W., and Wilkins.

Williams, Chelsea S., Metropolis, Ill. Plumb bob line spool. 2,640,276, June 2.

Williams, Ollin W.: *See*—
Brown, Luther E., and Williams.

Willis, Delbert E., New Brunswick, N. J., assignor to Mack Manufacturing Corporation, New York, N. Y. Dual transmission control. 2,640,374, June 2.

Willison, Donald, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Cushioning mechanism for railway vehicles. 2,640,602, June 2.

Willison, Donald, Cleveland, and H. L. Spence, East Cleveland, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Cushioning mechanism for railway vehicles. 2,640,603, June 2.

Wills, John H., Chester, assignor to Philadelphia Quartz Company, Philadelphia, Pa. Manufactore of tetrasilicates. 2,640,756, June 2.

Wilson, James W., III, and G. E. Ullyot, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. Isoquinolyl heterocyclic ethers. 2,640,829, June 2.

Wilson, Price, Lexington, assignor of one-half to Linwood Manufacturing Co., Linwood, N. C. Bark-removing cutter reciprocable over step-by-step rotatable log. 2,640,516, June 2.

Wimmer, Ernest L.: *See*—
Liggett, Robert W., and Wimmer.

Winder, Samuel E., West Medway, Mass., assignor of one-half to H. C. Daubenspeck, Massillon, Ohio. Glassware blowhead arrangement. 2,640,298, June 2.

Wingquist, Sven G., Gothenburg, Sweden. Universal joint. 2,640,335, June 2.

Winkler, De Loss E.: *See*—
Harman, Denham, and Winkler.

Winkler, Richard, Rengsdorf, Germany, and M. Dünnebier, deceased, by K. Dünnebier, administrator, Neuwied, Germany, assignors to Baltimore Paper Company, Kansas City, Mo. Device for laterally adjusting webs. 2,640,660, June 2.

Winn, Welton B., Moleshoe, assignor of one-half to R. L. House, San Antonio, Tex. Electrical service connector. 2,640,667, June 2.

Win-Sum Window Corporation, assignee: *See*—
Price, Lester F.

Wlather, Martin P., Gates Mills, assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio. Eddy current mechanism. 2,640,941, June 2.

Wlsbrun, Walter, Cleveland Heights, Ohio. Prosthesis construction. 2,640,200, June 2.

Wlsbrun, Walter, Cleveland Heights, Ohio. Foot-arch support structure. 2,640,282, June 2.

Wiseman, James V., Westend, Calif., assignor to West End Chemical Company. Evaporating apparatus. 2,640,761, June 2.

Wiseman, James V., Westend, Calif., assignor to West End Chemical Company. Evaporating sodium sulfate solutions and recovering sodium sulfate therefrom. 2,640,762, June 2.

Wislicenus, George F., Baltimore, Md., assignor to Packard Motor Car Company, Detroit, Mich. Cooling of gas turbines. 2,640,319, June 2.

Wodetzky, Elmer, Lynbrook, assignor to D. J. Silverstein, New York, N. Y. Winding machine. 2,640,633, June 2.

Wood, Gar, Industries, Incorporated, assignee: *See*—
Dale, Elmer O.

Wreathall, William M., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Reflecting optical objective. 2,640,393, June 2.

Wright, Walter B.: *See*—
Sullivan, Cecil J., and Wright.

Yates, Arthur T., West Seneca, assignor to Buffalo Forge Company, Buffalo, N. Y. Power stop device for power presses. 2,640,541, June 2.

Yehling, George C., Jr., St. Louis, Mo., assignor to American Viscose Corporation, Wilmington, Del. Attritor for fibrous material. 2,640,226, June 2.

Young, Harry M., Webster Groves, Mo. Wire-forming machine. 2,640,510, June 2.

Zachary, Alexis, New York, N. Y. Hair curler. 2,640,486, June 2.

Zalkind, Joseph, New York, N. Y. Machine for sorting and selecting sheets or printed forms. 2,640,485, June 2.

Zanner, Otto, Vineland, N. J. Egg washing machine. 2,640,210, June 2.

Zavoico, Stephen V., Lake Forest, Ill., assignor to The Eagle Lock Company, Terryville, Conn. Split head locking screw. 2,640,521, June 2.

Zenith Radio Corporation, assignee: *See*—
Bell, John F., and Nordby.
Cherry, Walter L., Jr.
Spindler, Joseph C.

Zettlemoyer, Albert C., Bethlehem, Pa., and I. M. Bernstein, Brooklyn, N. Y., assignors to National Printing Ink Research Institute, Bethlehem, Pa. Ink having improved drying properties. 2,640,783, June 2.

Zim Manufacturing Company, assignee: *See*—
Berkman, Herbert A.

Zimmerman, Carl W., Dallas, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex. Temperature compensated susceptibility logging system. 2,640,869, June 2.

Zimmerman, Haven M.: *See*—
Robb, Clarence C., and Zimmerman.

Zimmerman, Walter J., Punxsutawney, Pa. Mop and squeegee combined. 2,640,214, June 2.

Zwack, Raymond T.: *See*—
Knapp, George P., Burns, Robbins, and Zwack.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Motor control system, Electric. F. W. Meredith. Re. 23,663, June 2.
Smoker's pipe. J. W. Cryder. Re. 23,664, June 2.
Scuff plate for furniture. C. L. Pettibone. Re. 23,665, June 2.

LIST OF PLANT INVENTIONS

Rose plant, Climbing. E. E. Marsh. 1,191, June 2.

LIST OF DESIGN INVENTIONS

Accordion grill. J. Giulietti. 169,745, June 2.
Airplane. J. T. Corrigan and P. P. Sherry. 169,731, June 2.
Ash tray, Finger. S. B. Lonberger. 169,772, June 2.
Ash tray or similar article. M. J. Hinterachied. 169,750, June 2.
Bank, Coin actuated calendar. A. E. Maage, Jr. 169,773, June 2.
Bracelet or the like. A. Katz. 169,760, June 2.
Brooch or the like. A. Katz. 169,765, June 2.
Cabinet or similar article, Television. R. Rasmussen. 169,787, June 2.
Cabinet, Wall. H. R. Trout and F. M. Hill. 169,795, June 2.
Cart, Serving. M. Moxley. 169,775, June 2.
Chain for a necklace or the like, Link. A. Philippe. 169,780–2, June 2.
Chain for a wristband or similar article, Expansible link. A. Pinson. 169,784–5, June 2.
Chair. G. W. Florian, H. W. Streck, and W. E. Kelsey, Jr. 169,742, June 2.
Clock and radio, Combination. E. Klein. 169,767, June 2.
Coffee brewer. F. E. Newman. 169,776, June 2.
Comb. W. Sklavenitis. 169,792, June 2.
Dispenser, Liquid. E. H. Sieling. 169,793, June 2.
Dispenser or similar article, Tape. J. O. Reinecke. 169,788–9, June 2.
Earring or the like. A. Philippe. 169,779, June 2.
Eyeshade. H. B. McMurdo. 169,776, June 2.
Figurine. T. B. Lee. 169,769, June 2.
Furnace, Warm air residential. K. R. Phillips. 169,783, June 2.
Game apparatus. J. G. Frost. 169,744, June 2.
Handbag. W. H. Hardy. 169,746, June 2.
Helicopter. S. Apostolescu. 169,720, June 2.
Kettle and stand, Combined electric. L. G. Hawkins. 169,747, June 2.
Knife. W. D. Wallace. 169,797, June 2.
Lamp base. J. Roberts. 169,790, June 2.
Lamp, Reading and examination. H. F. Borin. 169,729, June 2.
Lid, Cooking pan. R. J. Dietrich. 169,739, June 2.
Marker for mailboxes, Directional. O. M. Breh and R. A. Servatius. 169,730, June 2.
Massaging machine. L. E. Holland. 169,751, June 2.
Meter, Light. R. B. Kerr and F. Gianascol. 169,766, June 2.
Mixer, Household food. H. H. Schott. 169,791, June 2.
Necklace or the like. A. Katz. 169,761–4, June 2.
Ornament or similar article, Ear. L. Bell. 169,726–7, June 2.
Photographic light meter. H. A. Bakke. 169,721, June 2.
Pin, Safety. R. M. Hayes. 169,748, June 2.
Plate or the like. B. L. Miller and G. Parker. 169,777, June 2.
Ring, Finger. W. P. Hickman. 169,749, June 2.
Shoe or the like. F. J. Diamant. 169,732, June 2.
Spectacle frame or the like. R. J. T. Bauer. 169,722–3, June 2.
Spectacle frame or the like. R. J. T. Bauer and A. De Angelis. 169,724–5, June 2.
Sponge cleaner or the like. G. Virneburg. 169,796, June 2.
Stocking. M. Fisher. 169,740–1, June 2.
Stocking. A. E. Iachinger. 169,752–8, June 2.
Stocking. C. W. Livingston. 169,770–1, June 2.
Stocking. I. Rabinowitz. 169,786, June 2.
Stove grid. C. W. Agee. 169,719, June 2.
Table, Cabinet. H. R. Trout and F. M. Hill. 169,794, June 2.
Television front panel unit. R. C. Marbois. 169,774, June 2.
Tool, Puttying. W. Lausman and O. R. Siewert. 169,768, June 2.
Tote box, Stackable. R. C. Fritz, Jr., G. L. de Caccia, and D. Ratzlaff. 169,743, June 2.
Toy railroad station. W. L. Bonar. 169,728, June 2.
Tray and pivoted beverage rack, Combined food. R. B. Karoff. 169,759, June 2.
Tumbler. F. Diamond and J. E. Plummer. 169,733–8, June 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absorption refrigeration. S. M. Bäckström. 2,640,331, June 2.
Acylated complex oxygen-containing polyamines. D. Harman and H. J. Sommer. 2,640,822, June 2.
Agitating type stock feeder. J. Jindrich. 2,640,464, June 2.
Aircraft trim tab control. H. A. Gibb. 2,640,665, June 2.
Air freshening system. E. E. Hans. 2,640,409, June 2.
Air inlet housing. E. E. Hans. 2,640,411, June 2.
Air lift control, Automatic. C. I. Hill. 2,640,731, June 2.
Air purifying and circulating device. G. S. Dauphinee. 2,640,558, June 2.
Alarm, Burglar. S. Talucci. 2,640,435, June 2.
Alarm, Capacity actuated burglar. P. H. E. Claesson and K. L. Johansson. 2,640,976, June 2.
Alarm system. C. W. and S. T. Roe. 2,640,975, June 2.
α-(2-thienyl) benzylureas and producing the same. R. Duschinsky. 2,640,835, June 2.
Aluminum carbide, Producing. C. C. Helm. 2,640,760, June 2.
Ammonium sulfate and calcium carbonate, Production of. S. P. Robinson. 2,640,757, June 2.
Amplifier and receiver system. E. D. Phinney and R. S. Bailey. 2,640,917, June 2.
Amplifier of the magnetron type, Microwave. J. B. H. Kuper. 2,640,951, June 2.
Analyzing gases, Method of and apparatus for. R. C. Seitz. 2,640,870, June 2.
Antenna. W. E. Robbins. 2,640,932, June 2.
Antenna arrangement for radar, Circularly polarized. W. Sichak. 2,640,915, June 2.
Antenna assembly. F. J. Lundburg and F. X. Bucher. 2,640,930, June 2.
Antenna, Circularly polarized broad band. A. G. Kandoian. 2,640,928, June 2.
Antenna, Directional. J. J. Root. 2,640,931, June 2.
Antenna, Dual range. J. C. Spindler. 2,640,933, June 2.
Antenna, Television. M. D. Ercolino. 2,640,929, June 2.
Antenna, Television. A. Lago. 2,640,934, June 2.
Apparatus for air volume control in ventilating systems. G. K. Raider and E. J. Little. 2,640,410, June 2.
Apparatus for applying jackets to books. L. de Florez and G. B. Linderman, Jr. 2,640,207, June 2.
Apparatus for bending metal rims around containers. H. L. Carpenter. 2,640,524, June 2.
Apparatus for cleaning bottles. A. S. Hamilton, Jr. 2,640,212, June 2.
Apparatus for continuous gauging. M. A. Crosby. 2,640,274, June 2.
Apparatus for cutting lengths from a web of paper, cardboard or similar material. R. N. Piper. 2,640,539, June 2.
Apparatus for manufacture of corrugated plywood. R. de Mello. 2,640,517, June 2.
Apparatus for measuring the focal length of lenses. H. Freeman. 2,640,392, June 2.
Apparatus for melting titanium to form ingots. S. A. Herres. 2,640,860, June 2.
Apparatus for operating a vacuum currying apparatus. S. J. Erling. 2,640,218, June 2.
Apparatus for operating tools in well bores. R. C. Baker. 2,640,546, June 2.
Apparatus for packaging commodities with trough member supported between plates. C. T. Nichols. 2,640,638, June 2.
Apparatus for producing porcelain enamel. R. E. Skinner and G. H. McIntyre. 2,640,859, June 2.
Apparatus for producing ventilated staves or blocks. G. J. Saffert. 2,640,246, June 2.
Apparatus for smoking and curing food products. C. B. Jensen. 2,640,414, June 2.
Apparatus for spacing elongate elements. D. K. Porter. 2,640,664, June 2.
Apparatus for the diagnosis and the control of treatment of diseases of the eye. W. V. Stephenson. 2,640,357, June 2.
Apparatus for utilizing a beam of high energy electrons in sterilization and in therapy. E. A. Burrill. 2,640,948, June 2.
Aromatic amino hydroxy acid, Production of an. L. Doub. 2,640,854, June 2.
Article separating mechanism. J. W. Cox. 2,640,606, June 2.
Article transfer for conveyer organization. G. Schroeghamer. 2,640,578, June 2.
Artificial denture and manufacture. E. J. Vaillancourt. 2,640,265, June 2.
Assembling machine, Automatic. C. D. Spicer. 2,640,617, June 2.
Attritor for fibrous material. G. C. Yebling, Jr. 2,640,226, June 2.
Aureomycin ointment. R. L. Burkhart and J. J. Vance. 2,640,801, June 2.
Automatic frequency control. C. Wentworth and H. L. Donley. 2,640,918, June 2.
Automatic handling and hardness testing mechanism. R. L. Sieggreen. 2,640,591, June 2.
Automatic on and off control system for gas plants. C. MacSporran and O. L. Garretson. 2,640,768, June 2.
Automatic poultry feeder. D. V. V. Doty and A. Long. 2,640,462, June 2.
Automatic transfer machine tool. E. M. Bowen. 2,640,254, June 2.
Automobile heater. J. M. Außero. 2,640,407, June 2.
Automobile seat article holder. B. W. Byford. 2,640,595, June 2.
Auxiliary assembly for sawmills, Hydraulically actuated. W. H. Watson and R. L. Nelson. 2,640,513, June 2.
Azo derivatives of carbostyril. J. Seruto. 2,640,825, June 2.
Baking machine, Automatic. G. Reget. 2,640,444, June 2.
Baking pan means and dumping mechanism therefor, Cake. G. Reget. 2,640,445, June 2.
Balancing weight. R. A. Kennedy. 2,640,727, June 2.
Ballast removing apparatus, Rotary type. K. Kershaw. 2,640,285, June 2.
Band pass filter. M. C. Tournier. 2,640,879, June 2.
Bandage, Sanitary. R. Brown. 2,640,488, June 2.
Bark-removing cutter reciprocable over step-by-step rotatable log. P. Wilson. 2,640,516, June 2.
Bat, Table tennis. G. H. Forsyth. 2,640,698, June 2.
Battery, Deferred action type. G. B. Ellis. 2,640,863, June 2.
Battery pigment. M. F. Chubb. 2,640,862, June 2.
Battery, Storage. J. B. Brennan. 2,640,865, June 2.
Belt, Coated. E. H. Knuth. 2,640,366, June 2.
Belt drive. H. R. Pomeroy. 2,640,512, June 2.
Bending roll. R. G. Le Tourneau. 2,640,525, June 2.
Blind riveted joint. W. C. Hale, Jr. 2,640,618, June 2.
Blower control system, Soot. C. L. Howse. 2,640,217, June 2.
Board: *See*—
Collating writing board.
Bobbin holder. W. Rickenback. 2,640,507, June 2.
Bonding. N. Langer. 2,640,786, June 2.
Bonding. N. Langer. 2,640,798, June 2.
Boring head construction. R. W. Haggar. 2,640,378, June 2.
Boring machine. A. W. Johnson. 2,640,376, June 2.
Boring mill. W. K. Millholland, Jr. 2,640,377, June 2.
Boring or drilling machine and work holding clamp. F. J. Johnson. 2,640,515, June 2.
Box: *See*—
One-piece forge steel railway journal box.
Box lid, Journal. E. H. Blattner. 2,640,738, June 2.
Bracket: *See*—
Can opener bracket.
Bracket for floodlights, Corner mounting. A. G. Lampe. 2,640,670, June 2.
Brake apparatus, Fluid pressure. G. L. Cotter. 2,640,733, June 2.
Brake control, Double-acting master cylinder. E. C. Soahn. 2,640,324, June 2.
Brake release indicating means, Fluid pressure. A. T. Gorman. 2,640,732, June 2.
Brake structure. D. Hoppenstand. 2,640,565, June 2.
Breaker buoy and power generating means, Combination. T. G. Hunter. 2,640,326, June 2.
Brush, Electrical contact. D. Ramadanoff. 2,640,944, June 2.
Brush lifting device for variable resistances. A. J. Klose. 2,640,900, June 2.
Buckle. J. Dronoff. 2,640,241, June 2.
Buckle for the body of artificial limbs, Adjustable. W. C. Weimer. 2,640,242, June 2.
Building in the cases of books, Method and apparatus for. L. de Florez, O. L. Gore, and E. Bach. 2,640,208, June 2.
Burglar alarm switch. A. Krueger. 2,640,894, June 2.
Burner and combustion apparatus, Liquid fuel. J. S. Clarke. 2,640,320, June 2.
Burner control system utilizing flame conduction, Safety fuel. F. E. Cairns, Jr. 2,640,920, June 2.

Burner for liquid fuel, Pot type. W. C. Roberts. 2,640,530, June 2.
Butcher block refinishing machine. F. E. Broberg. 2,640,514, June 2.
Button, Cloth-covered. W. C. Schuhr. 2,640,238, June 2.
Cabinet: *See*—
Controlled temperature vapor-bath cabinet.
Cabinet structure, including receptacle and mounting therefor, Refrigerator. C. G. Robbins. 2,640,751, June 2.
Can closing machine with flange suspension support. G. M. Stone. 2,640,452, June 2.
Can opener bracket. A. G. Bureau. 2,640,673, June 2.
Candymaking apparatus. R. F. Morrison. 2,640,446, June 2.
Cap: *See*—
Humidifier radiator cap.
Car end for mine cars, Overlapping. R. E. Jones. 2,640,441, June 2.
Carbine, Automatic. G. F. Grebey. 2,640,306, June 2.
Carbonaceous molding compositions, Manufacture of. C. D. Greaves and W. D. Parker. 2,640,787, June 2.
Carburetor, Multibarrel. G. M. Bicknell. 2,640,472, June 2.
Card overlap and adhering machine. B. E. Nelson. 2,640,695, June 2.
Carrier: *See*—
Collapsible infant carrier. Wheel carrier.
Waterbag carrier.
Carton. W. P. Frankenstein. 2,640,643, June 2.
Carton, Display. W. P. Frankenstein. 2,640,642, June 2.
Case: *See*—
Key case. Toilet case.
Refrigerated display case.
Case for fishing rods, Carrying. J. Sabatino. 2,640,622, June 2.
Casing and sealing means for horns or the like. T. G. Moulding. 2,640,981, June 2.
Casing centralizer. R. C. Baker. 2,640,544, June 2.
Catalytic desulfurization of petroleum hydrocarbons. F. W. B. Porter and R. P. Northcott. 2,640,802, June 2.
Cellular rubber, Cold resistant. W. U. Hohwieler. 2,640,858, June 2.
Cellulose ester compositions, Stabilized. J. K. Craver. 2,640,785, June 2.
Cellulose pulp, Production of. J. H. Ross, J. S. Hart, R. K. Strapp, and O. Maass. 2,640,774, June 2.
Chain: *See*—
Conveyer chain.
Chain drive for loom shedding mechanism. W. A. Blanchard. 2,640,504, June 2.
Chair convertible to ironing board. R. C. Lightbourne. 2,640,526, June 2.
Chamber device, Expansible. H. T. Cappelle. 2,640,432, June 2.
Chilling system, Car and produce. D. E. Myers. 2,640,328, June 2.
Chlorinated polymers of branched chain 1,3-hexadienes. J. L. Van Winkle and R. C. Morris. 2,640,857, June 2.
Cigarette package and matchbook holder. W. D. Dunn. 2,640,588, June 2.
Circuit: *See*—
Motor control circuit.
Circuit breaker, Liquid break. W. E. Paul. 2,640,807, June 2.
Circuit for reversible D. C. motors, Control. W. D. Macgeorge and C. Cross. 2,640,957, June 2.
Circuits, Electrical precipitator. E. G. Hills. 2,640,539, June 2.
Clamp: *See*—
Implement tool bar clamp. Separable pressure vessel
Rope clamp. quick clamp.
Clasp, Garment. J. M. Parl. 2,640,247, June 2.
Cleaner and ridger, Ditch. E. V. Briscoe. 2,640,286, June 2.
Clock with sliding case, Travel alarm. K. O. Schmidt. 2,640,668, June 2.
Closure cap retainer. F. W. Blanchard. 2,640,625, June 2.
Closure for hopper of hopper type railway cars. G. B. Dorey. 2,640,440, June 2.
Clothes carrier for automobiles, Portable. L. V. Francis. 2,640,634, June 2.
Clothes hanger. R. F. Price. 2,640,632, June 2.
Clutch: *See*—
Synchronizer clutch.
Clutch control, Fluid actuator. H. O. Schjolin. 2,640,368, June 2.
Clutch drive, Variable speed magnetic fluid. G. R. Nelson. 2,640,364, June 2.
Clutch in a fluid torque converter, Lock-up. J. H. O'Brien. 2,640,572, June 2.
Coating and draining machine, Automatic. C. C. Robb and H. M. Zimmerman. 2,640,584, June 2.
Coating composition and fire resistant building element coated therewith. J. R. Parsons, M. C. Higgs, and M. A. Loos. 2,640,786, June 2.
Coating control system. J. F. Rockett, Jr. 2,640,788, June 2.
Coating for plastics, Antistatic. E. G. Sheridan, L. L. Yaeger, and J. Bjorksten. 2,640,817, June 2.
Code converter, Telegraphic. L. M. Weir and C. J. Weir, Jr. 2,640,876, June 2.
Coin changer. D. A. Piano. 2,640,575, June 2.
Cold plate with means to prevent condensation. J. F. I. Ingvardsen. 2,640,329, June 2.
Collapsible container. M. D. Walklet. 2,640,620, June 2.
Collapsible infant carrier. A. E. Lash. 2,640,712, June 2.
Collapsible stand. M. P. Walzak. 2,640,294, June 2.
Collapsible supporting frame. F. W. Coffing. 2,640,534, June 2.
Collating writing board. D. M. Lonta. 2,640,715, June 2.
Combination door lock, M. Margo. 2,640,344, June 2.
Combination-operated mechanism. E. S. Gillu. 2,640,346, June 2.
Combustion apparatus with ignition means therefor. W. D. Pouchot. 2,640,321, June 2.
Combustion control device for sole-fired horizontal coke ovens. C. H. Hughes. 2,640,805, June 2.
Communication system, Pulse type multiplex. C. W. Hansell. 2,640,921, June 2.
Compartmented container. I. C. Ryder. 2,640,623, June 2.
Composition of glass, especially for fibers. R. L. Tiede and F. V. Tooley. 2,640,784, June 2.
Composition of matter. R. L. Doerr. 2,640,793, June 2.
Compressor, Sliver. E. C. Gwaltney. 2,640,229, June 2.
Connector: *See*—
Electric cup connector.
Electrical service connector.
Connector having a spring-biased line terminal, Electrical. R. N. Falge and D. P. Clayton. 2,640,970, June 2.
Constant current device. J. W. Gray. 2,640,962, June 2.
Construction of flexible hose. C. M. Hamblin. 2,640,500, June 2.
Container: *See*—
Collapsible container. Compartmented container.
Container and closure therefor, Convertible. S. Newell. 2,640,626, June 2.
Container and household measuring vessel, Combination commercial. F. P. Klosky. 2,640,628, June 2.
Container or clothes locker. M. Clements. 2,640,616, June 2.
Continuously uniting resin impregnated cellulosic webs for decorative coverings. D. H. Grangaard. 2,640,799, June 2.
Control apparatus for starting, stopping, running, and reversing an internal-combustion engine. R. E. Miller. 2,640,312, June 2.
Control for revolving drum vending machines. H. R. Frankle. 2,640,574, June 2.
Control for vaporizing oil burners with electric ignition. A. L. Judson. 2,640,648, June 2.
Control means for automotive vehicles. A. Y. Dodge. 2,640,372, June 2.
Control means for phonographs. E. W. Mortimer. 2,640,705, June 2.
Controlled temperature vapor-bath cabinet. O. R. Burwell. 2,640,201, June 2.
Convertible loom. J. G. E. Klaesson. 2,640,505, June 2.
Conveyer. W. G. Schutt. 2,640,579, June 2.
Conveyer, Belt. J. R. Madeira. 2,640,582, June 2.
Conveyer chain. O. J. B. Orwin. 2,640,685, June 2.
Conveyer means, Automatic station-to-station delivery. M. E. Abitz. 2,640,581, June 2.
Conveyer mechanism for small grain elevators, Hopper and extension. M. W. Roscoe and R. L. Beldin. 2,640,577, June 2.
Conveyer, Multiple cycle. A. R. De Burgh. 2,640,607, June 2.
Conveyer system. A. R. De Burgh. 2,640,580, June 2.
Conveying means for webs or sheets. J. Dungler. 2,640,277, June 2.
Cooling of gas turbines. G. F. Wislicenus. 2,640,319, June 2.
Cosmetic assembly. H. Fits. 2,640,487, June 2.
Coupler, Pusher type. N. B. Smith. 2,640,709, June 2.
Coupling: *See*—
Tube coupling.
Coupling. D. J. Dennington, Jr. 2,640,719, June 2.
Coupling mechanism, Fifth wheel. F. H. Kayler. 2,640,707, June 2.
Cover: *See*—
Wheel cover.
Crib, Cabinet type folding. W. H. Sheldon. 2,640,203, June 2.
Cup, Baby. E. V. Bryant. 2,640,337, June 2.
Curler, Hair. A. Zachary. 2,640,486, June 2.
Cushioning mechanism for railway vehicles. D. Willison. 2,640,602, June 2.
Cushioning mechanism for railway vehicles. D. Willison and H. L. Spence. 2,640,603, June 2.
Cutter: *See*—
Inside pipe cutter.
Cutter mechanism for mowing machines. M. K. Benson. 2,640,309, June 2.
Cutting shoe for bagmaking machines. D. Stange. 2,640,540, June 2.
Cuttings removing mechanism. J. A. Hayward. 2,640,690, June 2.
Cylinder liner and sleeve assembly for reciprocating pumps. A. L. Leman. 2,640,434, June 2.
Damping device, Impeller movement. R. Hafner. 2,640,353, June 2.

Defrosting unit, Car. J. Berger. 2,640,231, June 2.
Δ^9(11)-pregnenes and process. N. L. Wendler, R. P. Graber, and A. C. Haven, Jr. 2,640,838, June 2.
Δ^9(11)-pregnenes and process. N. L. Wendler and R. P. Graber. 2,640,839, June 2.
Depth control device, Cultivator. B. A. Halverson. 2,640,403, June 2.
Detachable key ring. S. J. Valsey. 2,640,237, June 2.
Detector for counterfeit money. A. Dolinsky. 2,640,279, June 2.
Detonating mechanism for time fuses. M. R. Thomson. 2,640,418, June 2.
Device for controlling the tension of a longitudinally moving wire. G. H. Leland. 2,640,663, June 2.
Device for laterally adjusting webs. R. Winkler and M. Dünnebier. 2,640,660, June 2.
Device for measuring soil resistance. A. P. Jourdain. 2,640,351, June 2.
Device for testing fluid pressure lines. S. J. Sawicki. 2,640,921, June 2.
Diaphragm actuated balanced gate type pressure regulator. H. G. Bissell. 2,640,498, June 2.
Diaphragm and mounting, Loud-speaker. J. B. Brennan. 2,640,556, June 2.
Diaphragm for fluid clutches, Flexible. V. K. Atkins. 2,640,499, June 2.
Directional indicator. M. Carter. 2,640,972, June 2.
Dishwashing machine with vertically movable door. C. R. Lewis and R. J. Taggart. 2,640,536, June 2.
Disk blade gang. J. A. Love. 2,640,406, June 2.
Disk harrow, Expansible. F. N. O. Kranick. 2,640,308, June 2.
Disk harrow, Multiple lift type. J. P. Robertson. 2,640,307, June 2.
Disk valve pulse jet engine. W. E. Abel. 2,640,314, June 2.
Dispenser: *See*—
Tape dispenser.
Dispenser and container, Disposable tissue. M. B. Smith. 2,640,587, June 2.
Dispenser for self-adhesive tape. W. H. Donkin. 2,640,656, June 2.
Display apparatus. O. D. McNeill. 2,640,289, June 2.
Display device, Inventory aging. C. R. Scordo and G. W. and F. L. Wassell. 2,640,457, June 2.
Dithiocarbamates and derivatives thereof. L. B. Tewksbury, Jr., and S. S. Heikkila. 2,640,834, June 2.
Dolly, Tire carting. C. Wedel. 2,640,615, June 2.
Door closing device. W. H. Clewell. 2,640,609, June 2.
Door closing device, Double-action. H. H. Pancake. 2,640,610, June 2.
Door closing means for load discharging cars. G. B. Dorey. 2,640,437, June 2.
Door lock. G. W. Wardwell, Jr. 2,640,345, June 2.
Door structure, Cabinet. F. R. Eck and W. L. Chambers. 2,640,230, June 2.
Draft device, Self-adjusting tractor-trailer. E. F. Duffy. 2,640,710, June 2.
Draft diverter. B. R. Reed. 2,640,413, June 2.
Drapery support. J. A. Van Wie. 2,640,601, June 2.
Drawing device, Child's. I. Stone. 2,640,280, June 2.
Dredge. F. G. Nielsen. 2,640,284, June 2.
Dressing beef cattle and the like. L. T. Force, G. Moore, and W. J. Hincks. 2,640,225, June 2.
Drill. M. Graves. 2,640,379, June 2.
Drilling mechanism, Electric. C. M. O'Leary. 2,640,685, June 2.
Drive for adjustable-axis mating rotors. J. R. Rosenleaf. 2,640,371, June 2.
Drive for fluid handling devices of the rotary, positive displacement type. C. R. Houghton. 2,640,428, June 2.
Drum type unit installation. J. W. Votypka. 2,640,682, June 2.
Drying machine, Cloth. R. C. Parkes. 2,640,250, June 2.
Dumbbell with adjustable weights. A. Lemieux. 2,640,696, June 2.
Dump bailer. R. C. Baker. 2,640,548, June 2.
Dump body assembly, Standardized. E. O. Dale. 2,640,725, June 2.
Dynamoelectric machine, Homopolar. J. V. Caputo and T. J. Crawford. 2,640,942, June 2.
Eddy current mechanism. M. P. Winther. 2,640,941, June 2.
Elastic fabric. S. F. Siciliano. 2,640,508, June 2.
Electric cup connector. F. F. Lehr. 2,640,968, June 2.
Electric pulse code modulation system of communication. C. C. Eaglesfield. 2,640,965, June 2.
Electrical device. E. M. Carbary. 2,640,871, June 2.
Electrical service connector. W. B. Winn. 2,640,667, June 2.
Electrode spacing regulator utilizing a nonlinear reference impedance device. D. Journeaux. 2,640,947, June 2.
Electrolyte level indicating attachment. J. F. Prohaska. 2,640,976, June 2.
Electromagnetic straight-line motor. F. C. Fisher. 2,640,955, June 2.
Electromagnetically controlled valve. H. Baxter. 2,640,495, June 2.
Electron source. L. J. Cook. 2,640,949, June 2.
Electrostatic detearing apparatus. H. K. Stoddard. 2,640,459, June 2.
End fitting for slide fasteners, Separating. F. L. Morrow. 2,640,255, June 2.
Engine: *See*—
Disk valve pulse jet engine.
Engine cleaning equipment. E. J. Sanders, J. A. Wiens, and E. J. McClave. 2,640,724, June 2.
Enriching sugar with a vitamin component and product derived therefrom. W. L. Owen. 2,640,778, June 2.
Esters of sulfur-containing polycarboxylic acids. D. Harman and D. E. Winkler. 2,640,848, June 2.
Etching. J. A. Easley and H. E. Swayze. 2,640,763–7, June 2.
Evaporating apparatus. J. V. Wiseman. 2,640,761, June 2.
Evaporating sodium sulfate solutions and recovering sodium sulfate therefrom. J. V. Wiseman. 2,640,762, June 2.
Exercising cage. J. A. Siegel. 2,640,460, June 2.
Exhalation valve. T. A. Conley. 2,640,481, June 2.
Extracting liquids from wet materials. H. J. Rand. 2,640,342, June 2.
Extractor: *See*—
Inlay extractor.
Eyeglass mounting. E. H. Moseley. 2,640,391, June 2.
Eyeshade. G. D. Bricker. 2,640,195, June 2.
Fabric: *See*—
Elastic fabric.
Fan and clutch for engine cooling, Combined air. I. I. Sikorsky. 2,640,409, June 2.
Fan, Electric circulating floor. C. E. Jones. 2,640,646, June 2.
Fastener: *See*—
Step adjusting separable fastener.
Fastener assembly. P. D. Becker. 2,640,244, June 2.
Fastener stud installation, Snap. W. I. Jones. 2,640,243, June 2.
Fastening device, Separable headed. K. J. Shomber. 2,640,246, June 2.
Fastening device, Trim. T. W. Hosking. 2,640,722, June 2.
Fastening devices, Mounting of threaded. P. D. Becker. 2,640,245, June 2.
Feeder: *See*—
Agitating type stock feeder. Automatic poultry feeder.
Filament mounting apparatus. A. E. Kulberg, R. M. Terry, and S. E. Swasey. 2,640,509, June 2.
Film attaching means for reels. T. R. Biko and D. S. Deutsch. 2,640,659, June 2.
Filter: *See*—
Band pass filter.
Filter arrangement for combined radio receiving and transmitting systems. D. C. Espley. 2,640,916, June 2.
Filtering apparatus, Dust. J. M. Lewis and R. A. Bub. 2,640,560, June 2.
Fishhook. J. S. Garner. 2,640,291, June 2.
Fish lure. C. J. Nadolny. 2,640,292, June 2.
Fishing reel. M. E. Lee. 2,640,661, June 2.
Fitting for electrical conduits. E. Schnelderman. 2,640,619, June 2.
5-hydroxy-4: 7-phenanthrolines and the preparation thereof. J. Druey and P. Schmidt. 2,640,830, June 2.
Fitting for flexible fuel cells. M. F. Millard. 2,640,493, June 2.
Flow arrangement for multipass heaters. J. W. Throckmorton. 2,640,687, June 2.
Flowmeter, Variable orifice. J. F. Shannon. 2,640,356, June 2.
Flue-unblocking and safety system for incinerators. J. K. Ilium. 2,640,447, June 2.
Fluid pressure relieving apparatus. J. L. Cloudsley. 2,640,564, June 2.
Fluid seal. G. A. Wahlmark. 2,640,736, June 2.
Fluid translating device. H. A. Andresen. 2,640,678 June 2.
Focusing device for cathode-ray tubes, Magnetic. D. P. Ingle. 2,640,868, June 2.
Food products and producing the same. J. Grader. 2,640,781, June 2.
Foot-arch support structure. W. Wisbrun. 2,640,282, June 2.
Forming a multifocal lens. S. T. Sheard and L. F. Rowe. 2,640,299, June 2.
Frame: *See*—
Collapsible supporting frame.
Frequency response system. E. D. McArthur. 2,640,922, June 2.
Friction cathead. S. W. Long. 2,640,683–4, June 2.
Friction element and forming same. E. C. Bertolet, Jr. 2,640,795, June 2.
Fuel feeding apparatus with vibratory hopper. H. M. Thomson and C. E. Mudie. 2,640,629, June 2.
Fuel pump. A. M. Babitch. 2,640,424, June 2.
Fuel system. F. J. Boyer. 2,640,423, June 2.
Furnace: *See*—
Resistance furnace.
Furnace and evaporator, Reaction. W. S. Bowen and J. E. Viscardi. 2,640,532, June 2.
Furniture construction. S. N. Swarts. 2,640,202, June 2.
Furniture, Knockdown bent wood. N. M. Kreizelman. 2,640,527, June 2.
Fusee compositions, Prodncing. H. C. Clauser and R. S. Long. 2,640,771, June 2.

Galvanometer, Torque compensated. W. M. Powell. 2,640,866, June 2.
Garment. B. V. Gould. 2,640,196, June 2.
Garment and article hanger. R. Peacock. 2,640,598, June 2.
Garment with trough means, Protective. C. M. Murray. 2,640,197, June 2.
Gas burner head, Multiple. C. C. Lamar. 2,640,531, June 2.
Gas-operated well apparatus. R. C. Baker and T. M. Ragan. 2,640,547, June 2.
Gas supply control system. C. MacSporran. 2,640,769, June 2.
Gas turbine starter mounting. L. C. Secord. 2,640,315, June 2.
Gate: *See*—
Trap-nest gate.
Gathering machine, Stone. E. S. Diehl. 2,640,306, June 2.
Gating system for plan position indicators. C. W. Sherwin. 2,640,984, June 2.
Gauge for screws, etc., Outside diameter. W. G. Larson and E. E. Broberg. 2,640,273, June 2.
Gear shaping machine, Reversing feed. E. W. Miller. 2,640,397, June 2.
Gear transmission, Hydrodynamic. L. A. Trofimov. 2,640,375, June 2.
Generator for machine control systems, Frequency. L. E. de Neergaard. 2,640,938, June 2.
Generator for short-circuit testing, Electric. H. Leyburn. 2,640,961, June 2.
Glass, Laminated safety. R. A. Gaiser. 2,640,904, June 2.
Glassware blowhead arrangement. S. E. Winder. 2,640,298, June 2.
Glider, Furniture. P. D. Becker. 2,640,219, June 2.
Glove compartment door latch. R. E. Lauer and C. B. Doty. 2,640,723, June 2.
Gooseneck connection. V. W. Meng. 2,640,734, June 2.
Grease. W. C. Bryant. 2,640,812, June 2.
Grille, Adjustable. R. P. Sweger. 2,640,412, June 2.
Grinder, Belt. J. McEwan. 2,640,304, June 2.
Grinding machine. C. J. Green. 2,640,300, June 2.
Grinding machine. O. E. Hill and C. G. Flygare. 2,640,301, June 2.
Grinding wheel dressing apparatus. H. G. Norlander. 2,640,477, June 2.
Gun training mechanism. K. Clark. 2,640,395, June 2.
Gyratory crusher shaft lubrication. O. C. Gruender. 2,640,651, June 2.
Hairline protector. F. Mullen. 2,640,198, June 2.
Handle: *See*—
Thumb guide shear handle.
Handle construction for cartons and the like. A. E. Brown. 2,640,645, June 2.
Hanger: *See*—
Clothes hanger.
Garment and article hanger.
Hanger of the clamp type, Garment. W. G. Olpe. 2,640,633, June 2.
Harness frame suspending device. P. C. Consoletti. 2,640,506, June 2.
Hatrack. W. V. Leskar. 2,640,594, June 2.
Head covering, Illuminated. N. Prupis. 2,640,980, June 2.
Headwear. J. H. Funk. 2,640,199, June 2.
Heat exchange type of tank heater. J. W. Brown, Jr. 2,640,686, June 2.
Heater: *See*—
Automobile heater.
Heat exchange type of tank heater.
Heating apparatus. R. C. Johnson and C. C. Tyrrell. 2,640,467, June 2.
Heating device, Electrical. C. H. Haynes. 2,640,906, June 2.
Hexahydrolupulon and the salts thereof, Production of. J. F. Carson. 2,640,856, June 2.
Hexamine, Production of. A. F. MacLean and A. L. Stautzenberger. 2,640,826, June 2.
High-frequency electric potential divider. A. E. C. Bennett. 2,640,940, June 2.
High-speed starter. S. Gilbert and C. Metager. 2,640,359, June 2.
High velocity process for synthesis of organic compounds. H. G. McGrath and L. R. Hill. 2,640,844, June 2.
Hinge for windows, Pivot. E. Sörenholm. 2,640,221, June 2.
Hitch, Combination. F. M. Fraga. 2,640,708, June 2.
Hoist, Portable. L. D. Barry. 2,640,612, June 2.
Holder: *See*—
Automobile seat article holder.
Bobbin holder.
Cigarette holder.
Identification holder.
Price tag holder.
Hook setter for fishing tackle. E. R. Ames, O. H. Thomas, W. H. O'Neal, and F. P. Sword. 2,640,290, June 2.
Hopper closure for hopper type railway cars. G. B. Dorey. 2,640,439, June 2.
Hose insert, Kink preventing. F. W. Powers. 2,640,502, June 2.
Humidifier radiator cap. C. Schaaf. 2,640,689, June 2.
Hydraulic damping mechanism, Reciprocating piston type. G. M. Magrum. 2,640,693, June 2.
Hydraulic molding press. J. Haller. 2,640,325, June 2.
Hydraulic transmission, Variable pitch. K. G. Altheide. 2,640,680, June 2.
Hydraulically operable valve controlled well tool. R. O. Childers. 2,640,543, June 2.
Hydrocarbon synthesis. R. A. Beck and E. E. Sensel. 2,640,845, June 2.
Hydrogen pressure control for hydrogen filled discharge tubes. H. T. Swanson. 2,640,952, June 2.
Identification holder. E. A. Lacoursiere. 2,640,287, June 2.
Igniting composition and preparing same. S. J. Magram and J. J. Blissel. 2,640,770, June 2.
Ignition apparatus for turbojet afterburners. R. A. Neal. 2,640,316, June 2.
Implement hitch. G. E. Wheeler. 2,640,405, June 2.
Implement tool bar clamp. C. H. Brown. 2,640,718, June 2.
Impulse-responsive stepping device actuated by magnetic torque. H. P. Boswan. 2,640,895, June 2.
Index table. J. Verderber. 2,640,400, June 2.
Indicating device, Tangential and rotational motion. F. B. Wells. 2,640,278, June 2.
Indicating the movement of material, Method and apparatus for. W. S. Pajes. 2,640,936, June 2.
Indicator: *See*—
Directional indicator.
Liquid level indicator.
Indicator for boreholes, Oriented dip and strike. F. G. Boucher. 2,640,275, June 2.
Indicator operated by air pressure, Level. J. T. Parisi. 2,640,977, June 2.
Inert monatomic-gas shielded refractory metal remelting surface-defect removal process. W. O. Binder. 2,640,792, June 2.
Ink containing a polymerized olefin, Printing. H. S. Bloch and A. E. Hoffman. 2,640,782, June 2.
Ink having improved drying properties. A. C. Zettlemoyer and I. M. Bernstein. 2,640,783, June 2.
Inlay extractor. J. Sarti. 2,640,266, June 2.
Inside pipe cutter. C. R. Edwards. 2,640,537, June 2.
Instrument, Ballistics testing. R. L. Pigford. 2,640,355, June 2.
Instrument, Layont. E. Thompson. 2,640,268, June 2.
Instrument with geared pointer and pointer stop therefor, Indicating. C. A. de Giers. 2,640,456, June 2.
Insulator combined with live line links. H. E. Clements. 2,640,867, June 2.
Introduction of active materials into evacuated envelopes. W. E. Harbaugh and L. P. Garner. 2,640,945, June 2.
Isoquinolyl heterocyclic ethers. J. W. Wilson, III, and G. E. Ullyot. 2,640,829, June 2.
Jalousie assembly for building construction. W. M. and C. E. Jordan. 2,640,569, June 2.
Joint: *See*—
Blind riveted joint.
Universal joint.
Wave guide elbow joint.
Joint construction, Sash corner. C. A. Pressnall. 2,640,567, June 2.
Journal lubricator. R. J. Harkenrider. 2,640,740–1, June 2.
Key case. J. J. Majeski. 2,640,347, June 2.
Knife, Retractable pocket. C. E. Taylor and S. J. Gwoosh. 2,640,260, June 2.
Knife sharpening and grinding attachment. A. R. Johnson. 2,640,303, June 2.
Knitting machine provided with a noiseless coupling, Double cylinder circular. B. Charvát. 2,640,338, June 2.
Lamp: *See*—
Wall lamp.
Lamp for vehicles, Clearance. C. C. Talley. 2,640,910, June 2.
Lap table. G. B. Bodenhoff. 2,640,747, June 2.
Lapping machine. H. S. Indge. 2,640,302, June 2.
Latch: *See*—
Glove compartment door latch.
Vehicle door latch.
Latch mechanism for scoops. V. H. Borgelt. 2,640,614, June 2.
Latch tripping mechanism. H. W. Sanford. 2,640,608, June 2.
Legging with a metal frame. G. E. Murphy. 2,640,281, June 2.
Lenses from transparent plastics, Production of. J. Johnson. 2,640,227, June 2.
Level control. E. J. Scray, Sr. 2,640,361, June 2.
Lid for nests, Nonroosting. L. W. Dadlow. 2,640,461, June 2.
Lifting appliance for vehicles. J. Villars. 2,640,562, June 2.
Lighter, Cigarette. T. H. Batt. 2,640,340, June 2.
Lighting fixture for elongated tubular fluorescent lamps. C. D. McCann. 2,640,911, June 2.
Line-gripping device for props. W. G. Hume. 2,640,236, June 2.
Liquid level indicator. C. L. Seefluth. 2,640,269, June 2.
Load bracing means. I. Johnsen, Jr. 2,640,442, June 2.
Loading device, Shell. R. C. Hollings. 2,640,386, June 2.
Lock: *See*—
Combination door lock.
Door lock.
Locking means for snap gauge measuring pins. E. H. Aldeborgh. 2,640,270, June 2.

Loom: *See*—
Convertible loom.
Low-friction variable pulley disk mounting. J. S. Michie. 2,640,365, June 2.
Lubricant compositions, Demulsifiable. H. S. Beretvas. 2,640,811, June 2.
Lubricator: *See*—
Journal lubricator.
Traction motor lubricator.
Pneumatic tool lubricator.
Machine for cleaning paintbrushes, including liquid tanks and brush holders thereabove. C. E. Boland. 2,640,489, June 2.
Machine for cutting slant sided arcuate groove elements. H. H. Manning. 2,640,398, June 2.
Machine for gluing and sealing carton flaps. F. C. Genco, E. R. Edmunds, and N. Panzarella. 2,640,305, June 2.
Machine for loading baking pans. W. Baechle. 2,640,637, June 2.
Machine for making foundry molds. C. E. Bergami. 2,640,234, June 2.
Machine for printing and powdering sheets. A. C. Sias. 2,640,458, June 2.
Machine for progressively bonding sheet material. E. S. Welch, Jr. 2,640,908, June 2.
Machine for sorting and selecting sheets or printed forms. J. Zalkind. 2,640,485, June 2.
Magazine and delivery mechanism for bar feed machines. B. C. Harney. 2,640,511, June 2.
Magnesia, Producing. V. V. Hughey. 2,640,759, June 2.
Magnetic transducer head. C. C. Davis. 2,640,886, June 2.
Manifold, Automobile V engine symmetrical. J. Haltenberger. 2,640,471, June 2.
Manifold, Combustion engine inlet. J. Haltenberger. 2,640,470, June 2.
Manifold high-pressure pump. P. H. Lindberg. 2,640,421, June 2.
Manually operated pinch valve. V. W. Farris. 2,640,675, June 2.
Margarin, Antispattering. M. Mattikow. 2,640,780, June 2.
Marker control arrangement for selectors. R. B. Buchner. 2,640,883, June 2.
Mass spectrometer control. S. B. Spracklen. 2,640,935, June 2.
Measuring apparatus, Contour. A. I. Bean. 2,640,272, June 2.
Mechanical device for operating boat davits. A. J. Harris. 2,640,206, June 2.
Mechanism for controlling blade movements of aircraft sustaining rotors. H. S. Campbell. 2,640,554, June 2.
Mechanism for converting reciprocating motion into rotary motion. G. E. Manley. 2,640,363, June 2.
Mechanism for drafting rayon tow. V. A. Burnham. 2,640,228, June 2.
Mechanism for threading beads. V. E. Litterio and M. T. Blease. 2,640,631, June 2.
Mechanism for transforming one form of movement into another, more particularly for use in stencil printing machines. J. E. Freeborn. 2,640,416, June 2.
Metal-aureomycin complexes. J. F. Weidenheimer, C. C. Ileed, and S. D. Upham. 2,640,842, June 2.
Metal manufacturing apparatus. C. W. Hazelett. 2,640,235, June 2.
Metalworking machine, Automatic. I. J. Fink and W. V. McNeely. 2,640,253, June 2.
Metering apparatus, Remote. C. Oman and J. R. Clark. 2,640,974, June 2.
Method of and material for treating water. R. C. Ulmer. 2,640,808, June 2.
Microwave modulation. S. Freedman and G. F. Bonardi. 2,640,964, June 2.
Mill: *See*—
Boring mill.
Mine stemple comprising two telescoping sections. K. Gerlach. 2,640,674, June 2.
Mirror, Illuminated. G. M. Montgomery. 2,640,909, June 2.
Mirror, Rear-vision. P. Bertell and L. C. Meade. 2,640,394, June 2.
Mixing and kneading machine. R. Möller. 2,640,688, June 2.
Molded pulp carton press. A. E. Comstock. 2,640,401–2, June 2.
Mop and squeegee combined. W. J. Zimmerman. 2,640,214, June 2.
Motor: *See*—
Electromagnetic straight-line motor.
Single phase capacitor motor.
Motor control circuit. W. J. Brown. 2,640,959, June 2.
Motor control device. F. C. Moebius. 2,640,873, June 2.
Motor system for closing automobile windows, Moisture controlled. R. A. Davis. 2,640,958, June 2.
Mounting: *See*—
Eyeglass mounting.
Gas turbine starter mounting.
Low-friction variable pulley disk mounting.
Ophthalmic mounting.
Mounting and driving assembly, Shaft. W. F. Spang. 2,640,334, June 2.
Mounting for distributor breaker points, Adjustable. R. J. Buck and W. H. Ball. 2,640,891, June 2.
Mouse and rat trap. I. A. Cook. 2,640,293, June 2.
Muffler with outer conduit formed of sound absorbing material, Retroverted passage type. J. B. Gaffney. 2,640,557, June 2.
Multipositioned liquid switch. H. R. Johnson. 2,640,890, June 2.
Multiswitch, Electric. J. Kruithof. 2,640,884, June 2.
Musical instrument, Percussion. E. Carlson. 2,640,385, June 2.
Musical instrument, Vibratory reed. B. F. Miessner. 2,640,384, June 2.
N-(halomethyl)-maleimide and preparing the same. P. O. Tawney. 2,640,832, June 2.
N-methyl-1-isobutylisopentylamine, Production of. J. B. Tindall. 2,640,855, June 2.
N,N-disubstituted β-haloethylamines. K. N. Campbell and G. E. Ullyot. 2,640,828, June 2.
Navaglide system, Pulse. A. M. Casabona. 2,640,982, June 2.
Neutral esters of thiolphosphoric acid, Production of. G. Schrader. 2,640,847, June 2.
Numeral punching machanism, Consecutive. A. G. Duff. 2,640,538, June 2.
Nut-cracking machine. E. P. Kennedy. 2,640,519, June 2.
Oiler, Cylinder top. R. K. Chase. 2,640,475, June 2.
One-piece forge steel railway journal box. G. A. Reifsnyder. 2,640,737, June 2.
Opener, Can. H. A. Berkman. 2,640,257, June 2.
Operating hatch-covers aboard ship, Means for. H. Kummerman. 2,640,454, June 2.
Ophthalmic mounting. W. S. Muncy. 2,640,390, June 2.
Optical objective, Reflecting. W. M. Wreathall. 2,640,393, June 2.
Organic isocyanates, Preparing. M. D. Hurwitz and R. W. Auten. 2,640,846, June 2.
Organic sulfonyl hydrazides, Production of. N. K. Sundholm. 2,640,853, June 2.
Organosilicon compositions. P. A. DiGiorgio. 2,640,833, June 2.
Outlet assembly for hopper type railway cars. G. B. Dorey. 2,640,438, June 2.
Overbed table. H. Holmberg. 2,640,748, June 2.
Oxidising sodium sulfide to sodium sulfite in successive stages. R. S. Aries and A. Poliak. 2,640,758, June 2.
Oximeter. M. D. Liston. 2,640,389, June 2.
Oxygen producing apparatus. F. G. Keyes. 2,640,332, June 2.
Oyster preparing machine. H. B. Secor. 2,640,223, June 2.
Packing strip. W. P. Boysen. 2,640,794, June 2.
Pad: *See*—
Partition pad.
Pad for electrical contact brushes, Resilient. F. G. Roberts. 2,640,943, June 2.
Paging system, Automatic. W. R. Hicks. 2,640,887, June 2.
Pallet. L. F. Ashford. 2,640,669, June 2.
Paper and making same, Coated. E. J. Barber. 2,640,790, June 2.
Paper, Coated. E. J. Barber. 2,640,791, June 2.
Parachute. V. Cerrella. 2,640,666, June 2.
Partition member for drawers and the like, Adjustable. M. Mokin. 2,640,621, June 2.
Partition pad. R. J. Hennessey and M. B. Jameson. 2,640,644, June 2.
Pechmann dye, Preparation of. J. C. Fang and W. Bergmann. 2,640,837, June 2.
Pechmann dye, Producing. W. Bergmann. 2,640,836, June 2.
Pen, Explosive fountain. S. S. Adams. 2,640,297, June 2.
Pen with filling cap, Fountain. M. C. Gottlieb. 2,640,216, June 2.
Phase detector. L. Staschover and L. Rosenberg. 2,640,939, June 2.
Phonographs and the like. E. W. Mortimer and E. W. Wilkins. 2,640,700, June 2.
Phonograph apparatus, Automatic. H. E. F. C. Lingenbrink. 2,640,701, June 2.
Phonograph pickup. E. E. Combs. 2,640,888, June 2.
Photoelectric semiconductor device. T. H. Kinman. 2,640,901, June 2.
Piezoelectric transducer. W. L. Cherry, Jr. 2,640,889, June 2.
Pipe: *See*—
Smoker's pipe.
Pipe pulling device, Hydraulic. B. Johnston. 2,640,681, June 2.
Piston ring. H. P. Phillips and H. F. Anderson. 2,640,746, June 2.
Piston seal. L. S. Wait. 2,640,745, June 2.
Pivot for shears. J. Spon. 2,640,262, June 2.
Plant fertilizer. J. M. Arthur. 2,640,772, June 2.
Plaything, Disklike. P. W. Garbo. 2,640,699, June 2.
Plow. K. R. Scholfield. 2,640,404, June 2.
Plug: *See*—
Spark plug.
Plumb bob line spool. C. S. Williams. 2,640,276, June 2.
Plural solenoid electromagnetic valve. C. C. Sheppard. 2,640,496, June 2.
Pneumatic gun. L. K. Spink. 2,640,476, June 2.
Pneumatic tool lubricator. J. F. McGushin. 2,640,561, June 2.
Point electron source. L. J. Cook. 2,640,950, June 2.
Pole key anchor. J. K. Harper. 2,640,571, June 2.
Polishing aluminum. F. H. Hesch. 2,640,806, June 2.
Polyazo dyestuffs. H. Iscber, E. Iselin, and W. Wehrli. 2,640,824, June 2.

Polymerization process. J. E. Pritchard and C. F. Fryling. 2,640,821, June 2.
Polymerizing styrene and maleic compounds. G. R. Barrett. 2,640,819, June 2.
Polyphase transductor, Spare connected. H. M. Sörensen and H. Porssell. 2,640,963, June 2.
Porous zinc electrodes, Preparation of. A. Fischbach and F. Hochberg. 2,640,864, June 2.
Portable gravel screen. P. M. Finger. 2,640,592, June 2.
Power unit. S. B. McLeod. 2,640,465, June 2.
Power unit, Hydraulic. S. B. McLeod. 2,640,420, June 2.
Power unit of the fluid pressure type. S. B. McLeod. 2,640,323, June 2.
Power unit of the pressure fluid type. S. B. McLeod. 2,640,426, June 2.
Press: *See*—
Hydraulic molding press. Molded pulp carton press.
Pressure vessel and pressure head therefor. J. D. Madaras. 2,640,624, June 2.
Prevention of corrosion. J. W. Nelson. 2,640,809, June 2.
Price tag holder. M. Grlin. 2,640,288, June 2
Propeller for aircraft, Jet-driven sustaining. V. Isacco. 2,640,549, June 2.
Propeller pitch change mechanism. C. W. Chillson. 2,640,552, June 2.
Propeller pitch-changing system, Hydraulic. M. E. Cushman. 2,640,555, June 2.
Propelling unit for pipe cleaners, Hydraulic. K. I. Robinson. 2,640,213, June 2.
Prosthesis construction. W. Wisbrun. 2,640,200, June 2.
Protector: *See*—
Hairline protector. Toe protector.
Protector. K. J. D. Munday. 2,640,937, June 2.
Pulse communication system, Multichannel electrical. H. M. Veaux. 2,640,881, June 2.
Pump: *See*—
Fuel pump. Swash plate pump.
Manifold high pressure pump. Turbine pump.
Pump. E. S. Neal. 2,640,431, June 2.
Pump drive, Rotary reciprocating. E. D. Taylor. 2,640,362, June 2.
Pump for internal-combustion engines, Fuel. J. B. Malin. 2,640,422, June 2.
Pump for internal-combustion engines, Liquid fuel injection. F. M. Evans and W. E. W. Nicolls. 2,640,419, June 2.
Pump for internal-combustion engines, Liquid fuel injection. A. Muraszew. 2,640,420, June 2.
Pump or motor, Screw. M. B. Sennet. 2,640,430, June 2.
Purification of alkali metal halides. J. O. Hay. 2,640,735, June 2.
Purification of substituted aromatic compounds. W. B. Whitney. 2,640,804, June 2.
Quick-freezing foodstuffs. B. E. Batley. 2,640,333, June 2.
Rack: *See*—
Toast rack.
Rack attachment for folding tables. R. J. Shanahan. 2,640,749, June 2.
Radiation current source. H. H. Rossi. 2,640,953, June 2.
Rail attachment for stepladders, Safety. J. S. Tepper. 2,640,641, June 2.
Railway journal box oil guard. J. J. Hennessy. 2,640,739, June 2.
Razor, Self-sharpening safety. W. F. Eckert. 2,640,258, June 2.
Reaction of carbon monoxide and hydrazine. G. D. Buckley and N. H. Ray. 2,640,831, June 2.
Reaction product of a mixed ferrite and lead titanate. G. Berge. 2,640,813, June 2.
Record changer. D. H. Smith. 2,640,703, June 2.
Record changer mechanism. R. A. Becwar. 2,640,704, June 2.
Record element, Magnetizable. J. H. Rand, Jr. 2,640,647, June 2.
Recovery of aconitic acid from its alkaline earth salts. S. M. Cantor. 2,640,852, June 2.
Recovery of aconitic acid from molasses. R. W. Liggett and E. L. Wimmer. 2,640,849–50, June 2.
Recovery of calcium magnesium aconitate from molasses. R. E. Miller. 2,640,851, June 2.
Reel: *See*—
Fishing reel.
Refining and bleaching of sugar cane wax. H. H. Hatt, P. H. A. Strasser, and W. J. Troyahn. 2,640,841, June 2.
Refractory tube. L. H. Milligan and O. J. Whittemore, Jr. 2,640,503, June 2.
Refrigerated display case. H. O. Johnson. 2,640,330, June 2.
Refrigeration apparatus, Dual evaporator. C. F. Alsing. 2,640,327, June 2.
Registry and side guide marker. A. Marsden. 2,640,416, June 2.
Regulator: *See*—
Diaphragm actuated balanced gate type pressure regulator. Window regulator.
Release and reset system, Automatic. W. Ieu-Liang Wu. 2,640,926, June 2.
Resinous products from dihydropyran derivatives and producing the same. R. R. Whetstone and S. A. Ballard. 2,640,815, June 2.
Resistance construction. W. M. Kohring. 2,640,903, June 2.
Resistance furnace. H. C. Kremers. 2,640,861, June 2.
Restoring X-ray film. F. X. and F. H. Hohn. 2,640,775, June 2.
Restraining device for fowl. R. H. George. 2,640,224, June 2.
Resuscitator using an auxiliary gas conserving valve. H. Seeler. 2,640,479, June 2.
Reverse cycle valve. E. F. Kounovsky. 2,640,494, June 2.
Ring: *See*—
Detachable key ring. Turbine or compressor stator ring.
Piston ring.
Rope clamp. J. J. Colonna. 2,640,240, June 2.
Safety device for induction fired rockets, Ignition. C. F. Bjork and M. F. Bondy. 2,640,417, June 2.
Sample taking device, Sidewall. L. E. Brown and O. W. Williams. 2,640,542, June 2.
Sampler. W. L. McClure and R. N. Pim. 2,640,358, June 2.
Sanitary device. A. Johnson. 2,640,484, June 2.
Scale, Egg. E. L. Kindseth. 2,640,691, June 2.
Screen: *See*—
Portable gravel screen.
Screen construction, Hammer mill. H. C. Jacobson. 2,640,650, June 2.
Screw, Split head locking. S. V. Zavoico. 2,640,521, June 2.
Scrubbing machine, Rug. W. L. Petersen. 2,640,211, June 2.
Seal for bottle filling machines, Bottle. G. L. N. Meyer. 2,640,640, June 2.
Sensitized photographic emulsion containing color couplers. J. Spence and B. H. Carroll. 2,640,776, June 2.
Separable pressure vessel quick clamp. C. E. Scheuring. 2,640,717, June 2.
Separating solids from exhaust gases of open-hearth furnaces, Means for. J. J. Seaver. 2,640,692, June 2.
Servo mechanism, Condenser. C. W. Sherwin. 2,640,954, June 2.
Servomotor, Follow-up type pressure fluid. T. A. Feeney. 2,640,466, June 2.
Servo system, Hydraulic. N. B. Murphy. 2,640,370, June 2.
Sewing machine, Shoe sole. F. Ashworth. 2,640,449, June 2.
Shaver, Electric. A. P. Miller. 2,640,239, June 2.
Shelf. A. M. Hess. 2,640,599, June 2.
Shoe, Bowler's. J. McCord. 2,640,283, June 2.
Signal display system, Pulse-echo. I. Stokes and L. P. Brooks. 2,640,983, June 2.
Signal from an A. C. actuated differential transformer, D. C. millivoltage. W. D. Macgeorge. 2,640,971, June 2.
Signal modulator, Electric. R. F. Cleaver and T. D. Gray. 2,640,973, June 2.
Signal-sampling device, Electron discharge. C. J. Hirsch. 2,640,925, June 2.
Single phase capacitor motor. L. W. Buchanan. 2,640,956, June 2.
Skin burning treatment. F. S. Stout. 2,640,343, June 2.
Sleeping equipment for use in combination with motor vehicles of the pleasure type. E. C. Cutler. 2,640,204, June 2.
Slicing machine, Button blank. M. B. Ostrochovsky. 2,640,380, June 2.
Slub catcher. S. L. Abbott. 2,640,252, June 2.
Soap from low grade oils and fats, Manufacture of odorless. K. Appuhn. 2,640,840, June 2.
Socket, Lamp. W. J. Coyle. 2,640,069, June 2.
Solutions of polyvinyl alcohol-acetate, Preparation of. L. M. Germain. 2,640,816, June 2.
Sorting device, Can label. A. H. McClelland and K. R. Anderson. 2,640,590, June 2.
Spark plug. H. P. Phillips. 2,640,474, June 2.
Spark plug for low voltages and condenser discharge, Surface discharge. W. B. Smits. 2,640,473, June 2.
Speech communication system. P. R. Algrain and J. B. Lair. 2,640,880, June 2.
Splash guard construction, Vehicle. S. F. Garner and K. T. Heap. 2,640,714, June 2.
Spool, Ribbon. G. W. Swanson. 2,640,658, June 2.
Spoon for liquid or medicines, E-Z feeding baby. A. Dieterich. 2,640,203, June 2.
Spotlight, Double beam automotive. N. A. Tornblom. 2,640,912, June 2.
Spray gun. I. S. Prescott. 2,640,726, June 2.
Stabilizer for drill collars and drill pipes. F. A. and F. L. Scott. 2,640,735, June 2.
Stacking mechanism, Magnetic. R. T. Chatterton. 2,640,605, June 2.
Stand: *See*—
Collapsible stand.
Starter jaw advancing mechanism. H. Troeger. 2,640,360, June 2.
Starting and switching control apparatus for facsimile recorders. K. R. McConnell and P. R. Marzan. 2,640,874, June 2.

Starting system for gas turbine engines, using multiple fuel pumps. F. H. Carey. 2,640,318, June 2.
Steering arm and ball joint assembly. J. H. Booth. 2,640,713, June 2.
Steering mechanism, Hydraulic. E. A. Puerner. 2,640,322, June 2.
Steering vane, Stabilizing. H. E. Hollmann. 2,640,453, June 2.
Step adjusting separable fastener. C. Schneider. 2,640,239, June 2.
Sterilizing air. H. B. Morris and C. B. Meuser. 2,640,753, June 2.
Stock feeder. G. L. Kitson. 2,640,463, June 2.
Stocking. G. D. Dowell. 2,640,339, June 2.
Stop device for power presses, Power. A. T. Yates. 2,640,541, June 2.
Stopping device, Magnetic. I. S. Roberts. 2,640,310, June 2.
Strainer, Down spout. H. C. Korb. 2,640,593, June 2.
Strip guide for sewing machines, Variable width wrapper. M. Roberts. 2,640,448, June 2.
Stroke adjustment device. R. B. Saalfrank. 2,640,425, June 2.
Superheat control. W. H. Armacost. 2,640,468, June 2.
Support: *See*—
Drapery support. Work support.
Wall fixture support.
Support and warmer for beds, Foot. A. H. Simpson. 2,640,205, June 2.
Support for a cornice and Venetian blind. B. B. Junkunc. 2,640,533, June 2.
Supporting construction for building layers. A. Horowitz. 2,640,570, June 2.
Supporting device. W. A. Bedford, Jr. 2,640,672, June 2.
Supporting means for swingable material handling ducts. R. F. Heinje. 2,640,566, June 2.
Sutures, Making. H. L. Davis and A. Bloch. 2,640,752, June 2.
Swash plate pump. M. A. Mathys. 2,640,433, June 2.
Switch: *See*—
Burglar alarm switch.
Multipositioned liquid switch.
Switch actuating device for hay balers. R. V. Stalzer. 2,640,893, June 2.
Switch actuating mechanism. J. W. Dickey. 2,640,899, June 2.
Switch for high-frequency electrical oscillations. D. C. Espley. 2,640,878, June 2.
Switch for rotary wing aircraft, Antigyration selector. J. C. Childs. 2,640,892, June 2.
Switch for tractors, Safety cutoff. G. C. White. 2,640,898, June 2.
Switching system, Two-motion. J. Kruithof. 2,640,882, June 2.
Synchroniser clutch. R. H. Shenk. 2,640,573, June 2.
Synthesis of organic compounds. L. R. Hill and H. G. McGrath. 2,640,843, June 2.
Synthetic resinous material, Production of. C. G. Evans and P. H. Bishop. 2,640,797, June 2.
System and apparatus for obtaining a beam of high energy electrons from charged particle accelerators. H. C. Pollock. 2,640,923, June 2.
System for studying electrical waves. A. L. Olson. 2,640,927, June 2.
System of can transfer. G. B. Stryker. 2,640,639, June 2.
Table: *See*—
Index table. Overbed table.
Lap table.
Table apparatus, Drop. L. D. Holmes and R. S. Hammond. 2,640,436, June 2.
Table for servicing railroad vehicles and the like, Side release. C. C. Griffiths. 2,640,435, June 2.
Tail pipe assembly, Jet engine. D. W. Fentress. 2,640,317, June 2.
Tall oil-polyamino-aldehyde reaction product. A. F. Schmutzler. 2,640,814, June 2.
Tape connecting means, Counterbalance. E. M. Trammell, Sr., and E. M. Trammell, Jr. 2,640,222, June 2.
Tape dispenser. R. Geyer. 2,640,657, June 2.
Target, Accelerator. E. M. McMillan. 2,640,924, June 2.
Telecommunication exchange system. G. C. Hartley and D. A. Weir. 2,640,872, June 2.
Telegraphy system utilising band compression, Duplex. L. M. Potts. 2,640,914, June 2.
Temperature compensated susceptibility logging system. C. W. Zimmerman. 2,640,809, June 2.
Temperature responsive control. L. E. Aske and J. A. Thayer. 2,640,902, June 2.
Temperature responsive control. C. A. Cobb. 2,640,313, June 2.
Testing apparatus for testing the fading characteristics of textile material. R. Bernegger. 2,640,354, June 2.
Testing the accuracy of watches, Means for. H. B. Greening. 2,640,350, June 2.
Tetraethyl pyrophosphate insecticide. D. L. Shafto. 2,640,800, June 2.
Tetrasilicates, Manufacture of. J. H. Wills. 2,640,756, June 2.
Theodolite. G. Geier. 2,640,267, June 2.
Thermostat device. J. B. Cataldo and A. N. Cook. 2,640,806, June 2.
Thermostatic control apparatus for heating systems. G. W. Rosier. 2,640,649, June 2.
Thienyl-substituted polysiloxanes. P. A. Di Giorgio. 2,640,818, June 2.
Thread supplying mechanism. W. Schweiter. 2,640,654, June 2.
Thread tensioning device. L. te Strake. 2,640,662, June 2.
Throttle control with automatic governor. D. M. Plumb. 2,640,351, June 2.
Thumb guide shear handle. C. J. Sullivan and W. B. Wright. 2,640,264, June 2.
Timer for model airplanes. H. F. Auler and E. E. Kobla. 2,640,295, June 2.
Tire and wheel handling and stripping machine. T. M. Curley. 2,640,604, June 2.
Tire construction. H. F. Palmer. 2,640,523, June 2.
Titanium base alloys. R. K. Pitler. 2,640,773, June 2.
Toast rack. E. A. Farr. 2,640,600, June 2.
Toaster, Cylindrical sandwich. M. L. Evans. 2,640,905, June 2.
Toe protector. I. Kiwad. 2,640,482, June 2.
Toilet case. G. Miller and E. K. Renz. 2,640,520, June 2.
Tone arm positioning mechanism for automatic record changer phonographs. R. T. Haggerty. 2,640,702, June 2.
Tool: *See*—
Automatic transfer machine tool.
Hydraulically operable valve controlled well tool.
Tool. H. H. Manning. 2,640,381, June 2.
Tool for belt loading preengraved projectiles with cartrides cases. F. R. Simpson. 2,640,387, June 2.
Tool for pneumatic tires, Dislodging. S. C. Caldwell. 2,640,528, June 2.
Tool for walls of cylindrical finger-gripping holes of bowling balls, Roughening. F. W. Berghorn. 2,640,518, June 2.
Toothbrush and dentifrice appliance, Multipurpose pocket-type. A. D. Velodota. 2,640,488, June 2.
Toothbrush, Fountain. F. H. Borsini. 2,640,215, June 2.
Torque transmitting connection. A. F. Myers. 2,640,336, June 2.
Torquemeter and horsepower indicator, Electronic. L. E. Ellison and R. R. Proctor. 2,640,352, June 2.
Toy, Flying saucer. M. A. C. Johnson and J. Toth. 2,640,296, June 2.
Toy hand organ. C. Feltman. 2,640,383, June 2.
Traction apparatus. B. Hill. 2,640,480, June 2.
Traction attachment for automobile wheels. C. A. Schroen. 2,640,522, June 2.
Traction motor lubricator. R. J. Harkenrider. 2,640,742–4, June 2.
Tractor drawbar and drive shaft bearing assembly. N. H. Preble and W. A. Goss. 2,640,711, June 2.
Tractor drawbar pounds pull tester, Hydraulic. C. Q. Hefner. 2,640,353, June 2.
Traffic violation indicating system for motor vehicles. H. R. Carter. 2,640,979, June 2.
Trailer, Collapsible auto. F. F. Kors. 2,640,721, June 2.
Transformer, Differential. W. D. Macgeorge. 2,640,967, June 2.
Tranformer, Welding. E. Force. 2,640,960, June 2.
Transmission. J. Jandasek. 2,640,373, June 2.
Transmission control, Dual. D. E. Willis. 2,640,374, June 2.
Transmission for electric hair clippers. L. J. Wahl. 2,640,261, June 2.
Transmission for lathes, Feedbox. W. G. Hoelscher. 2,640,369, June 2.
Transmisson unit, Unimount drive power. J. D. Rieser. 2,640,367, June 2.
Transmitter, Facsimile telegraph. L. Devaux. 2,640,875, June 2.
Trap: *See*—
Moose and rat trap.
Trap-nest gate. T. T. Arel. 2,640,220, June 2.
Traveling bag for sound recording and reproducing machines. J. M. Kuhlik. 2,640,885, June 2.
Tray, Drive-in theater service. T. W. Foster, L. E. Schek, and E. L. Bradley. 2,640,589, June 2.
Tray, Folding utility lunch. J. C. Thomson. 2,640,597, June 2.
Tray, Proofer. C. R. Rechtin and W. P. Bruestle. 2,640,583, June 2.
Treating high molecular weight hydrocarbons. J. C. Illman and H. J. Sommer. 2,640,803, June 2.
Treatment of carnotite ore materials. A. Q. Lundquist. 2,640,754, June 2.
Treatment of tall oil. S. W. Gloyer and H. A. Vogel. 2,640,823, June 2.
Treatment of wells. P. H. Cardwell and C. L. Lunsford. 2,640,810, June 2.
Trough for pool tables, Ball collecting. F. E. Elersich. 2,640,097, June 2.
Truck, Industrial. G. L. Turner. 2,640,611, June 2.
Tube: *See*—
Refractory tube.
Tube and its manufacture. T. R. Scott and W. K. Weston. 2,640,501, June 2.
Tube coupling. A. L. Bigelow. 2,640,716, June 2.
Turbine or compressor stator ring. J. B. Wheatley, A. W. Gaubatz, and C. C. Anderson. 2,640,679, June 2.

Turbine propeller control system. G. P. Knapp, W. E. Burns, W. P. Robbins, and R. T. Zwack. 2,640,550, June 2.
Turbine pump. V. J. Domer. 2,640,427, June 2.
Turkey product and preparing same. F. George. 2,640,779, June 2.
Typewriter, Manifolding. J. A. B. Smith. 2,640,576, June 2.
Ultrahigh-frequency thermionic valve. J. Bell. 2,640,946, June 2.
Umbrella. F. Kramer. 2,640,490, June 2.
Umbrella construction. E. Diamond. 2,640,450, June 2.
Uniform tensioning device. A. Johnson. 2,640,655, June 2.
Universal joint. S. G. Wingquist. 2,640,335, June 2.
Unloading device for vehicles. G. L. Kuhl. 2,640,613, June 2.
Utensils, Heat storing cooking. A. F. Flournoy. 2,640,478, June 2.
Utility holder for automobiles. H. J. Reeder. 2,640,596, June 2.
Valve: *See*—
Electromagnetically controlled valve.
Exhalation valve.
Manually operated pinch valve.
Plural solenoid electromagnetic valve.
Reverse cycle valve.
Ultrahigh-frequency thermionic valve.
Valve. W. J. Habgood. 2,640,676, June 2.
Valve. D. K. MacBain. 2,640,491, June 2.
Valve and seat for slush pumps. R. E. Craven. 2,640,677, June 2.
Valve for automatic weighing mechanisms, Shutoff. F. C. Genco. 2,640,630, June 2.
Valve for fuel tank pressurising system, Automatic low pressure venting and signaling check. W. F. MacGlashan, Jr. 2,640,529, June 2.
Valve for milking systems. R. E. Reeve. 2,640,497, June 2.
Valve guide driver. J. Sunnen. 2,640,256, June 2.
Valve mechanism with oil collecting device. R. E. J. Nordquist. 2,640,586, June 2.
Vapor recovery system for fuel tanks. G. C. Doelter. 2,640,627, June 2.
Variable inductance comparator. P. A. Drouin. 2,640,966, June 2.
Vehicle door latch. C. Brown. 2,640,720, June 2.
Vehicle framing, Railway. A. M. Schieler and E. C. Jackson. 2,640,443, June 2.
Ventilating attachment for automobiles. R. C. Miles. 2,640,408, June 2.
View-finder attachment for cameras. L. F. Fachman. 2,640,777, June 2.
Viewer for cameras. M. Shapiro. 2,640,388, June 2.
Vitamin B_1 gentisate. B. Pecherer. 2,640,827, June 2.
Wall fixture support. M. J. Grady. 2,640,671, June 2.
Wall form panel. A. H. Symons. 2,640,249, June 2.
Wall lamp. W. F. Little. 2,640,913, June 2.
Wall of plastic filled interlocked blocks, Double. V. A. Riganmont. 2,640,348, June 2.
Warming device. G. H. Morey. 2,640,907, June 2.
Warping machine. M. E. Leblanc. 2,640,251, June 2.
Washing machine, Egg. G. W. Johnson. 2,640,209, June 2.
Washing machine, Egg. O. Zauner. 2,640,210, June 2.
Waste disposal. C. W. Rice. 2,640,807, June 2.
Watch regulating apparatus. T. B. Gibbs. 2,640,349, June 2.
Waterbag carrier. J. F. Garrett. 2,640,635, June 2.
Water-soluble resin sulphonates, Production of. A. S. Teot and G. C. Wiggins. 2,640,820, June 2.
Wave guide elbow joint. C. W. Miller, G. Saxon, and M. C. Crowley-Milling. 2,640,877, June 2.
Wave signal frequency-changing system with constant current biased frequency changing device. J. F. Bell and R. M. Nordby. 2,640,919, June 2.
Well logging method and apparatus. F. G. Boucher. 2,640,271, June 2.
Well point construction. B. Share. 2,640,545, June 2.
Wheel carrier. C. E. Dysarz. 2,640,636, June 2.
Wheel cover. G. A. Lyon. 2,640,730, June 2.
Wheel structure. A. M. Niven. 2,640,729, June 2.
Wheel structure. F. W. Slack. 2,640,728, June 2.
Wheel suspension, Trailer individual. H. B. Kuster. 2,640,706, June 2.
Winding and setting mechanism for watch and clock movements and the like. H. Stamm. 2,640,311, June 2.
Winding machine. E. Wodetsky. 2,640,653, June 2.
Winding machine, Tube. R. S. Carr. 2,640,451, June 2.
Winding mechanism for stator winding machines, Reversible coil. T. F. Harvey. 2,640,652, June 2.
Window construction, Storm. L. F. Price. 2,640,232, June 2.
Window, Jalousie. C. Stivers. 2,640,233, June 2.
Window regulator. C. C. Jackson. 2,640,604, June 2.
Window structure. W. B. Burke. 2,640,568, June 2.
Window unit, Triple sliding storm. L. J. Milone. 2,640,535, June 2.
Wire-forming machine. H. M. Young. 2,640,510, June 2.
Wire netting, Producing reinforced. J. Hausner. 2,640,789, June 2.
Withholding braking action when an hydraulic brake is released, Means of. W. F. Sanders. 2,640,563, June 3.
Work support. W. N. Frank. 2,640,399, June 2.
Worktable top, Tailor's. P. J. Rohde. 2,640,750, June 2.
Wrench and wedging tool for removing screw plugs, Combined. H. C. Grossman. 2,640,382, June 2.
Yarn carrier and adapter for package dyeing. R. A. Russell. 2,640,341, June 2.

CLASSIFICATION OF PATENTS

ISSUED JUNE 2, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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27: 2,640,196
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CLASSIFICATION OF DESIGNS

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D86— 8: Des. 169,792
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DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE WEIL

No. 5938. Decided February 6, 1953

[201 F.2d 946; 96 USPQ 417]

1. DESIGNS—INVENTION—COMMERCIAL SUCCESS CONSIDERED ONLY WHEN DUE TO APPEARANCE.

Where commercial success is advanced as showing invention in a design, *Held* that the evidence must justify a conclusion that the success attained resulted from the appearance or design of the article.

2. PATENTABILITY — PARTICULAR SUBJECT MATTER — DESIGN FOR INFANT'S GARMENT.

The decision of the Board of Appeals that the appellant's design is devoid of invention over the prior art is affirmed.

APPEAL from Patent Office. Serial No. D. 4,509.

AFFIRMED.

Collins Mason and *Donald A. Gardiner* (*Mason & Graham* and *Spencer B. Michael* of counsel) for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner denying appellant's application for patent of a design of an infant's play garment.

A description of the design is given in the decision of the Board as follows:

The drawing illustrates a garment having an upper portion provided with supporting suspenders crossed at the back, and a lower bifurcated portion constituting tapered leg portions provided with integrally formed foot coverings.

The brief on behalf of appellant states:

As will appear from the drawing, the design is uniquely hybrid in that it involves an original ornamental ensemble having characteristics of an overall-type play garment as well as characteristics of a sleeper-type garment of novel form.

The following references were relied upon: Astrove, 2,291,861, Aug. 4, 1942; Forkish, 2,436,165, Feb. 17, 1948; Sears Roebuck Catalog, No. 188, 1944, page 231, Item T; Sears Roebuck Catalog, No. 196, 1948, page 80, Item F.

It may be said that each of the patents cited is for a garment per se—not for a design. The patent to Astrove is entitled "Infant's Outer Garment"; that to Forkish, "Child's Outer Garment." Presumably they were granted because of the utility of the garments, not because of the appearances of the garments. However, as was said in the case of *In re Bigelow* (Appeal No. 5842), 39 CCPA (Patents) 827, 830, 194 F.2d 543, 93 USPQ 12, "it is well settled that product patents, where pertinent, constitute valid references in design applications."

So far as shown, the garments cited in the Sears Roebuck Catalogs are not patented, but that fact does not detract from their validity as references.

It was pointed out in the decision of the Board that both the Forkish patent and "Item T" in the Sears Roebuck Catalog of 1944 disclose a child's play garment having suspenders which serve to uphold a lower body portion, and that both the Astrove patent and "Figure F" in the Sears Roebuck Catalog of 1948 show lower body portions of a garment the legs of which have coverings for the feet which are integral with the leg coverings.

The drawings of the Forkish patent show the suspenders crossed at the back in the same manner as the suspenders in the application here involved, and in "Figure F" of the 1948 catalog a partly folded lower body portion shows foot portions integral with the leg portions, the leg portions being gradually tapered from the crotch to the point where the foot section begins.

The latter garment is advertised in the catalog as a "sleeper," meaning a garment to be slept in, while appellant's garment is said to be one to play in, but use, of course, has nothing to do with design, so far as the design patent law is here concerned.

It is urged on behalf of appellant that "(*a*) Viewed as a whole, appellant's design has no counterpart in the art," and, "(*b*) The individual elements of the design are not even all separately old."

We consider first allegation (*b*). As we understand the contention, it is, in effect, that since there is some difference in the taper which appellant gives to the legs of his garment and the taper of those shown in the catalog figure, and also some difference in taper between the legs of his garment and the legs shown in the Astrove patent, he should be accredited with presenting something new in taper designing. Also it seems to be contended in appellant's behalf that he has presented something new over the prior art in the shape and proportion of the foot sections of the garment.

It may be conceded that if one take a hurried,

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superficial glance at the *drawings* of the application and those of the patents together with a similar glance at the picture shown in the catalog figures, a slight difference in leg taper and in foot conformation may be detected, but whether such differences would show in a garment fashioned from appellant's drawings may well be questioned and, in any event, we are unable to reconcile ourselves to a conclusion that appellant's change in that regard required the exercise of the inventive faculty.

It must be remembered that design patents, like all others, are issued only as reward for invention.

There were presented before the tribunals of the Patent Office and considered by them, a number of affidavits, verified published articles, testimonial letters, etc., indicating that appellant's infant's play garments have been quite successful from a commercial standpoint. His sales have been extensive and seemingly easily made.

The Primary Examiner in the Designs Division of the Patent Office discussed the matter of commercial success in part as follows:

> • • • Many articles meet with public approval and are readily salable but still do not meet one or more of the requirements of novelty, originality, ornamentality and invention necessary for a patentable design. In the present case, any commercial success the garment may have received is not believed to be persuasive of patentability "as the absence of invention cannot be supplied by a showing of commercial success." (*In re Kluter* [25 CCPA (Patents) 730, 92 F.2d 906, 35 USPQ 460] 488 O. G. 213; 1938 C. D. 144; • • •.) Further, a close analysis of the submitted clippings reveals that any appeal the garment may have is based mainly on its utilitarian advantages rather than on any ornamental aspects thereof, namely, that the baby's feet are kept warm and clean. It is well settled, however, that a design patent cannot be granted for the protection of utilitarian advances over the prior art. (*Ex parte Johnson*, 159 O. G. 992; 1910 C. D. 192, and *Ex parte McGowen*, 336 O. G. 13; 1925 C. D. 39.)

The Board's decision was in harmony with that of the Primary Examiner.

[1] We have examined and studied the various affidavits, letters, etc. and we are not convinced that they justify a conclusion that the success attained resulted simply from the appearance or design of the articles.

Appellant's own affidavit states, inter alia:

> In my personal contacts [he was shown to be an experienced salesman in the field of infant's and children's apparel] with the trade, I find that the factor which appears to be the principal reason for its unusual popularity is that it is a suspender type outer garment having integral feet, which gives to the garment an attractive and entirely unique appearance *suggesting both freedom of body movement and safety against exposure.* [Italics ours.]

It is certainly difficult to draw any conclusion from the foregoing facts other than that the commercial success of appellant's garment was due to its utility.

We think it obvious that if appellant were here seeking an article patent he could not prevail over a combination of the "suspender feature" shown in the Forkish patent and the "pants feature" shown in "Figure F" of the 1948 Sears Roebuck Catalog. Invention would be lacking. The alterations in the new garment would lie readily within the skill of the art. So far as this particular case is concerned, we think the same principle must be applied. The alterations in taper and conformation which might make a slight change in the appearance of the garment are well within the skill of the art and required no exercise of the inventive faculty in either conception or execution.

[2] We are not convinced of error on the part of the Board of Appeals and its decision is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IRMA HOSIERY CO. *v.* ERNEST SCHULMAN

No. 5919. Decided January 14, 1953

[201 F.2d 891; 96 USPQ 368]

TRADE-MARKS—CONFUSION OF THE PUBLIC—"SHEER-AS-AIR" AND "SCHEHERAZADE."

The decision of Commissioner of Patents sustaining a petition to cancel the appellant's mark "Scheherazade" as confusingly similar to appellee's mark "Sheer-as-air" is reversed since the marks do not look alike, differ in significance, and mispronunciation such as to produce a confusing resemblance in sound is only a remote possibility.

APPEAL from Patent Office. Cancellation No. 5303.

REVERSED.

Arthur N. Klein for appellant.

Ernest Schulman pro se.

JOHNSON, *J.*:

This is an appeal in a cancellation proceeding pursuant to the provisions of the Trade-Mark Act of February 20, 1905, from a decision of the Commissioner of Patents, acting through the Assistant Commissioner, 90 USPQ 40, affirming that of the Examiner of Interferences sustaining a petition by appellee to cancel the registration of appellant's trade-mark "Scheherazade."

It appears that appellant's trade-mark was duly registered in the United States Patent Office on August 31, 1948, Registration No. 440,410, as applied to women's hosiery.

The petition to cancel appellant's registered mark alleges that on or about the 25th day of June 1944, appellee adopted and commenced to use, and ever since that date has continued to use, the mark "Sheer-as-air" for men's, ladies', infants', and children's hosiery; that he has built up a large business and good will in connection with his said merchandise and products manufactured and sold under the trade-mark "Sheer-as-air," and that his said trade-mark constitutes an important and valuable asset of that business; that since June 25, 1944, he has continuously used the name "Sheerazair" as part of the firm name in connection with his business; and that appellant's trade-mark "Scheherazade" is confusingly similar to the trade-mark "Sheer-az-air" and the name "Sheerazair," so that concurrent use of said trade-marks would be likely to cause confusion or mistake in the minds of the public and also deceive purchasers.

Appellee took testimony and many exhibits were introduced. Briefs were filed by both parties and appellant was represented by counsel at the argument before us.

It appears from the record that both parties manufacture and sell hosiery; that appellee has been using its mark "Sheer-as-air," or "Sheer-az-air," or "Sheerazair" on its hosiery since about June 1944[1]; and that appellant has been using its mark "Scheherazade" on its hosiery since about April 1947.

We concur with the Examiner's statement that appellee's petition for cancellation is predicated upon appellee's use of the notation "Sheerazair," reproduced in that form or in the form of "Sheer-az-air," and that appellee's mark in its essentials consists of the term "Sheerazair." The Examiner was of the opinion that appellant's mark, which is the name of the mythical relator of the stores of the Arabian Nights, differs radically in significance from the mark of appellee to informed persons. However, he regarded the factor of similarity of sound as more important, and he was of the opinion that the involved marks frequently would be mispronounced in such manner that the difference between them in this respect would amount to but little more than the relatively small differences present between the respective concluding portions of "zade" and "zair." He held, therefore, that their concurrent use on hosiery would be quite likely to cause confusion or deception of purchasers. The Assistant Commissioner affirmed the Examiner, applying the same reasoning.

Appellant's mark "Scheherazade" contains five syllables, and appellant's mark "Sheerazair" has only three; moreover, the spelling of both marks appears to us to be materially different. Hence, we think the marks do not look alike. Further, we are of the opinion that the marks have entirely different significance. It seems clear to us that appellee's mark indicates a high degree of sheerness, and appellee conceded upon cross-examination that the plain or obvious meaning intended by the mark is that his merchandise is very sheer. On the other hand, as noted in the decisions below, appellant's mark would indicate to the informed the fictional relator of the stories of the Arabian Nights; to the less informed, the mark would, we think, at least carry the connotation of something exotic, rather than something very sheer.

This brings us to the question of similarity of sound, since the decisions below holding that there is likelihood of confusion are based primarily on the assumed possibility that appellant's mark will be so mispronounced that confusion with appellee's mark is likely. Appellant's mark is a five syllable word pronounced "Sche her a za de," with the principal accent on "za" and the secondary accent on "her."[2] Appellee's mark is a three syllable word apparently intended to be pronounced "sheer as air." It seems readily apparent that there must be a considerable mispronunciation of appellant's mark to produce a confusing resemblance in sound. We are of the opinion that the possibility of such mispronunciation is too remote for predicating upon it a likelihood of confusion or deception of purchasers, particularly when, as here, the marks are wholly dissimilar in connotation and substantially dissimilar in appearance. *Turco Products, Inc. v. Tykor Products, Inc., Etc.*, 38 CCPA (Patents) 903, 187 F.2d 622, 89 USPQ 139.

Accordingly, we are of the opinion that concurrent use of the involved marks on hosiery would not be likely to cause confusion or mistake of purchasers.

Both parties have cited many authorities to sustain their contentions. However, prior decisions are of little value in a cancellation proceeding because each case must rest upon its own distinctive facts. Likelihood of confusion from similar marks is largely a matter of opinion. *Crown Overall Mfg. Co. v. Desmond's*, 37 CCPA (Patents) 1118, 182 F.2d 645, 86 USPQ 166; *Lever Brothers Co. v. Geo. A. Hormel & Co.*, 36 CCPA (Patents) 995, 173 F.2d 903, 81 USPQ 314.

Other issues were presented by appellant for our consideration should this court be of the opinion that the marks are confusingly similar. In view of our holding that the marks involved are not confusingly similar, it is not necessary to discuss them.

For the reasons stated, the decision appealed from is reversed.

REVERSED.

O'CONNELL, *J.* (dissenting):

The responsibility for fixing likelihood of confusion arising from the use of similar marks in the sale of merchandise rests primarily with the Commissioner of Patents who acts through administrative experts and assistants assigned to the respective tribunals of the Patent Office. Congress has however endowed the judiciary with a supervisory power to revise and overrule their final or concurring decision where it is manifestly wrong and the evidence to the contrary is altogether convincing. *Morgan v. Daniels*, 153 U. S. 120, 125; *Montgomery Ward & Co. v. Sears, Roebuck & Co.*, 18 CCPA (Patents) 1380, 49 F.2d 842, 9 USPQ 524; *Safeway Stores v. Dunnell*, 172 F.2d 649, 653; *Yale Electric Corporation v. Robertson*, 26 F.2d 972.

The record in the case at bar is wholly devoid of any circumstance which would warrant the exercise of the drastic action taken by the majority. "Sheerazair" is a bona fide compound mark[1] registered in the State of New York, where appellee does business under the trade name of Sheerazair Hosiery Company. Appellee has likewise copyrighted the slogan "Wear Sheerazair" with the Library of Congress, and has registered it with the Department of State of the State of New York. Whatever protective rights appellee has thus achieved with respect to these last mentioned ele-

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[1] There is some question whether appellee has met his burden of proving priority of adoption of his alleged unregistered mark "Sheerazair." However, since we regard the issue of priority not controlling, we will consider his evidence to be sufficient, and an extensive discussion of the facts relating to priority is therefore unnecessary.

[2] Webster's New International Dictionary, 2nd ed., unabridged, 1949.

[1] *See In re Minute Washer Company*, 25 CCPA (Patents) 978, 95 F.2d 317, 37 USPQ 203.

ments of the case need not however be here discussed.'

The law of this jurisdiction provides that trade-marks having one or more syllables in common and attached to identical goods, such as we have in the case at bar, may be confusingly similar, although there is a wide difference in the remaining portions of the marks. *In re Brockway Glass Company*, 33 CCPA (Patents) 969, 154 F.2d 673, 69 USPQ 324; *Coty, Inc.* v. *Perfumes Habana, S. A.*, 38 CCPA (Patents) 1180, 190 F.2d 91, 90 USPQ 224. Moreover, while competitive marks in a proceeding like this must be considered as a whole or in their entireties with respect to sound, meaning, and appearance, substantial identity between them in any one or more of those attributes is, in and of itself, fatal to the continuance of the use of his trade-mark by the late-comer. *Skol Company, Inc.* v. *Olson*, 33 CCPA (Patents) 715, 151 F.2d 200, 67 USPQ 96; *Cluett, Peabody & Co., Inc.* v. *Denver M. Wright*, 18 CCPA (Patents) 937, 46 F.2d 711, 8 USPQ 344; *Traders Oil Mill Company* v. *Lever Brothers Company*, 26 CCPA (Patents) 889, 100 F.2d 249, 40 USPQ 470; *Mason, Au & Magenheimer Co.* v. *Hanley & Hoops*, 86 USPQ 272; *Ex parte J. H. Clarke & Co.*, 95 USPQ 226.

One seeking to steal a trade-mark, or a competitor's slogan of trade, usually incorporates some variant in the original to masquerade the piracy.[1] It is properly pointed out by the Examiner of Interferences in his decision below:

> • • • Regardless of the dissimilarities between them in other particulars, therefore, it is the opinion of the Examiner that the similarities between these notations in sound are such that their concurrent use in connection with the identical item of hosiery would be quite likely to cause confusion or deception of purchasers. Cf. *Marion Lambert, Inc.* v. *O'Connor* (477 O. G. 244, 86 F.2d 980, CCPA), *Weco Products Co.* v. *Milton Ray Co.* (568 O. G. 375, 143 F.2d 953, CCPA), *Hat Corporation of America* v. *Bry Block Mercantile Corp.* (53 USPQ 647), *The Barbasol Co.* v. *Gillette Safety Razor Co.* (82 USPQ 58), *R. B. Semler, Inc.* v. *Harris* (68 USPQ 31), and *Kaylon, Inc.* v. *Rosenberg* (78 USPQ 209), wherein, respectively, the marks "Voo" and "Dew," "Vray" and "Dr. Ray," "Byron" and "Bry-Ann," "Barbacossa" and "Barbasol," "Tremolo" and "Kreml," and "Ballerina" and "The Bambalina" were held to be confusingly similar.

The Examiner might have gone further, as was done by Judge Faris of the United States District Court in *Standard Oil Co.* v. *Michie*, 34 F.2d 802, 804, and likewise remarked:

> Cases of this sort, in addition to those above cited, can be cited by the dozens. So far have the courts gone upon the point as to lay down the rule that "there must be such a wide distinction between the dissimilar words as to prevent any possibility of confusion in the use of the marks." *Lowney Co.* v. *Chandler & Rudd Co.*, supra.[4] Even if there shall exist a doubt, that doubt will be resolved against him who is last in the field. *Postum Cereal Co.* v. *Farmers', Etc., Ass'n*, supra.[5]

[1] See *Safeway Stores, Inc.* v. *Dunnell*, 9 Cir. 1949, 172 F.2d 649, 655, certiorari denied, 337 U. S. 907; *Packwood Mfg. Co.* v. *The Cofax Corp.*, 37 CCPA (Patents) 1195, 183 F.2d 196, 86 USPQ 410; sec. 45 of the Lanham Act, 60 Stat. 445, 15 U. S. C. § 1051, et seq.

[2] See *Garver Mfg. Co.* v. *Linde Co.*, 339 U. S. 605, 608; "Good to the Last Drop," *Check-Xeal Coffee Co. et al.* v. *Hal Dick Mfg. Co.*, 17 CCPA (Patents) 1103, 40 F.2d 106, 5 USPQ 55.

[4] Infringement of trade-marks was present or unfair competition held to exist between "Gold Stripe" and "Gold Ribbon" in *Lowney Co.* v. *Chandler & Rudd Co.*, 56 App. D. C. 248, 12 F.2d 189; and between—

[5] "Wheat Nuts" and "Grape Nuts" in *Postum Cereal Co.* v. *Farmers', Etc., Ass'n*, 58 App. D. C. 73, 24 F.2d 901.

The Assistant Commissioner of Patents in declining to reverse the Examiner's decision hereinbefore set forth disclosed an informed judgment when he expressed the following conclusion:

> • • • Obviously the two marks are entirely different in significance, but I am not satisfied that the same may be said with regard to appearance and sound. In regard to similarity in sound, the most important factor to be considered here, the Examiner felt • • • would amount to but little more than the relatively small difference presented by the respective concluding portions "zade" and "zair." • • • It is true that respondent's mark "Scheherazade" contains more syllables than does the petitioner's mark as is apparent when the word is correctly pronounced by those informed persons who not only know and practice the precise pronounciation of respondent's mark "Scheherazade," but who are equally aware of its meaning as well. However, while the purchase of women's hosiery is a matter usually involving some degree of discrimination, yet sales are not confined to those who are well informed on the pronunciation of uncommon words. • • •

There is no obligation imposed by law, as Justice Robb noted, which requires that marks attached to identical goods "be examined with a microscope to detect the minute differences" between a well-known brand and a phony trade-mark. *Guggenheim* v. *Cantrell & Cochrane*, 56 App. D. C. 100, 10 F.2d 895. Nor is it otherwise necessary, as Judge Hatfield sharply admonished in *Celanese Corp. of America* v. *Vanity Fair Silk Mills*, 18 CCPA (Patents) 958, 47 F.2d 373, 8 USPQ 232, to resort to a study of etymology in order to avoid confusion and mistake.

Members of the bar and of various legal and trade associations are not unaware of the fact that due to a fundamental change in the prevailing philosophy of the majority, this court, in general, has now reversed its former position with respect to similar or identical trade-marks the use of which by the newcomer has been challenged as deceptive and misleading for the purpose of trading on the good will built up at great expense by the owner of the original mark in issue.

For example, the former decision of this court involving the same contested marks and the precise goods was recently reversed and overruled here by the majority because, as stated, "We are of opinion that the court arrived at an erroneous conclusion there in holding the involved marks to be so similar that confusion was likely to occur." *Merritt-Taylor, Inc.* v. *C. B. Shane Corp.*, 39 CCPA (Patents) 916, 919, 195 F.2d 535, 93 USPQ 221.

The basic purpose of the act of 1946, the Lanham Act, as defined by its legislative history and as noted by Judge Learned Hand in *S. C. Johnson & Son* v. *Johnson*, 175 F.2d 176, 178, certiorari denied, 338 U. S. 860, is to the following effect:

> It would seem as if national legislation along national lines securing to the owners of trade-marks in interstate commerce definite rights should be enacted and should be enacted now.
>
> There can be no doubt under the recent decisions of the Supreme Court of the constitutionality of a national act giving substantive as distinguished from merely procedural rights in trade-marks in commerce • • • and • • • a sound public policy requires that trade-marks should receive nationality the greatest protection that can be given them. (U. S. Code Congressional Service, 79th Congress, Second Session, 1946, p. 1277.)

Appellee has been deprived of his property by the reversal of the concurring decisions of the tribunals of the Patent Office. The procedure here has stressed the trivial and ignored the important. The primary purpose of the law is to protect the purchasing public, and shoppers have a right to rely on standard brands and to do so free from hazards or designs laid by hucksters to trap the unwary. *Coca-Cola Co.* v. *Koke Co.*, 254 U. S. 143; *Mishawaka Mfg. Co.* v. *Kresge*, 316 U. S. 203, 53 USPQ 323; *in re Laskin Brothers, Inc.*, 32 CCPA (Patents) 820, 146 F.2d 308, 64 USPQ 225; Senate Report No. 1333, 79th Congress, 2d Session, May 14, 1946; Robert, "The New Trade-Mark Manual," page 266.

Certiorari is not granted by the Supreme Court from judgments rendered by this court in matters relating to patents and trade-marks and there is none who can call our power to account. A bill to amend the act of 1946 has been introduced in the Senate, however, and referred to the Committee on the Judiciary. The bill proposes a number of amendments to the Lanham Act, some formal but many effecting substantial changes. It was noted by Senator Wiley when he introduced the proposed legislation on August 6, 1951 [97 Congressional Record, page 9678]:

> • • • Four years of experience under the revised law have led trade-mark owners and their lawyers alike to agree upon amendatory provisions which will result in clarification, simplified administration, and substantive changes consonant with present day commercial practices and the tenets of our jurisprudence.
>
> Although it is probable that some individuals may disagree with some provisions of the amendatory bill, generally speaking it represents the assent of the legal and trade associations participating in the discussions.

In the meantime, it is my firm conviction that in the public interest, as well as by the rights of appellee defined by the terms of the statute, the concurring decisions of the tribunals of the Patent Office in the case at bar should be affirmed.

COLE, J. (dissenting):

Sheerazair and Scheherazade, the two trade-marks involved, are in my opinion, confusingly similar and consequently I must dissent from the findings of the majority to the contrary. As pointed out by the majority, appellant's mark is a five syllable word pronounced "Sche her a za de" with the principal accent on "za" and the secondary accent on "her," while appellee's mark is a three syllable word apparently intended to be pronounced "Sheer as air," and it thus seemed to the majority that there must be a considerable mispronunciation of appellant's mark to produce a confusing resemblance in sound.

That, in my opinion, is wherein the major difficulty lies as the likelihood of mispronunciation is manifest. This conclusion was given—deservedly so—considerable weight by the Assistant Commissioner in affirming the findings of the Examiner of Interferences that the words were confusingly similar. As a practical matter, relatively few purchasers exercise precision pronunciation, and it is thought that the first two syllables, "Scheher" in Scheherazade, almost identical with Sheerazair, would be afforded primary emphasis with but little significance attached to the remaining portion of the word. The end result is confusion in trade as to the origin of the merchandise purchased.

In the very recent case of *Miles Shoes, Inc.* v. *R. H. Macy & Co.*, 199 F.2d 602, decided November 3, 1952 (opinion by Judge Augustus Hand), the court was concerned with the trade-marks "GROPALS" and "GRO (representation of a tree) SHOE" as applied to shoes and hosiery. The plaintiff's "GROPALS" mark was adopted in 1945, whereas the defendant, R. H. Macy & Company, had long previously used its mark. Holding that the marks were confusingly similar, Judge Hand, speaking for the court, said:

> • • • While it might be unlikely that a customer would confuse Macy's store with Miles, confusion as to whether the same manufacturer had made the goods seems to us likely. • • •
>
> • • • While the visual similarity between "MILES GROPALS" and "GRO (representation of a tree) SHOE" in itself might not be confusing, the fact that the goods on which the marks are affixed are identical, together with the additional fact that the two words are closely alike in sound, make confusion likely. • • •
>
> • • • Why it should have chosen a mark that had long been employed by Macy and had become known to the trade instead of adopting some other means to identify its goods is hard to see unless there was a deliberate purpose to obtain some advantage from the trade which Macy had built up.

The sound reasoning expounded by that court should be applied with equal vigor to the facts in the instant case. For the reasons herein expressed, I believe the decision below should be affirmed.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,155,867, B. D. McIntyre, Sway bar; 2,194,832, same, Stabilizer for vehicles, filed Mar. 11, 1953, D. C., E. D. Mich. (Detroit), Doc. 12558, *Monroe Auto Equipment Co.* v. *Borg-Warner Corp.*

2,194,832. (See 2,155,867.) 2,236,089. (See 2,431,112.)

2,281,977, D. H. Keiser, Jr., Pivotal connection for shears; 2,607,114, same, Pivotal connection for shears, filed Mar. 9, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 14923, *D. H. Keiser, Jr.* v. *Columbian Cutlery Co., Inc.*

2,351,004, M. Camras, Method and means for magnetic recording; 2,351,005, same, Magnetic recorder; 2,351,007, 2,479,308, same, Magnetic recording head; 2,411,848, same, Neon lamp volume indicator; 2,528,261, same, Apparatus for magnetic recording; 2,549,771, same, Magnetic transducer head; 2,565,191, R. E. Zenner, Eddy current shield in electromagnetic transducer head; 2,603,721, same, Magnetic recorder with pressure shoe for record member, D. C., N. D. Ill. (Chicago), Doc. 52c1158, *Armour Research Foundation of Illinois Institute of Technology* v. *Wilcox-Gay Corp.* By agreement cause dismissed Mar. 11, 1953.

2,351,005. (See 2,351,004.) 2,351,007. (See 2,351,004.)

2,374,182. (See 2,431,112.) 2,411,848. (See 2,351,004.)

2,431,112, Everest & Jennings, One-arm drive for wheel chairs; 2,520,309, same, Foot and leg rest; 2,591,246, same, Adjustable foot rest for wheel chair and the like; 2,236,089, S. Ducavich, Wheel chair; 2,374,182, S. Duke, Invalid walkers, filed Mar. 9, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c557, *Everest & Jennings, Inc.* v. *Roosevelt Chair & Supply Co. et al.*

2,479,308. (See 2,351,004.)

2,496,183, Thias & White, Circuit component selecting unit; 2,504,758, same, Variable capacitors; 2,620,378, E. P. Thias, Fine tuner for turret type turners, filed Aug. 9, 1950, D. C., S. D. N. Y., Doc. 60/136, *Standard Coil Products Co., Inc.* v. *Automatic Mfg. Corp.*

2,504,758. (See 2,496,183.) 2,520,309. (See 2,431,112.)
2,528,261. (See 2,351,004.) 2,549,771. (See 2,351,004.)
2,565,191. (See 2,351,004.) 2,591,246. (See 2,431,112.)
2,603,721. (See 2,351,004.) 2,607,114. (See 2,281,977.)
2,620,378. (See 2,496,183.)

Des. 163,037, W. H. Hardy, Handbag, filed Mar. 12, 1952, D. C., S. D. N. Y., Doc. 83/222, *Enjay Plastics Corp. et al.* v. *Handbag Specialties, Inc.*

Des. 163,403, D. M. Morgenstern, Portable spotlight, D. C., N. D. Ill. (Chicago), Doc. 53c265, *Nelmor Corp.* v. *Unity Mfg. Co.* On stipulation, cause dismissed without prejudice Mar. 3, 1953.

Des. 168,143, M. Cohen, Garment display rack, filed Mar. 4, 1953, D. C. Fla. (Miami), Doc. 4843–M, *Sel-O-Rak Corp.* v. *The Henry Hanger & Display Fixture Corp. of America et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 246,868, Time, Inc., Weekly magazine, D. C., S. D. Calif. (Los Angeles), Doc. 14830–Y, *Time, Inc.* v. *T. V. Time, Inc., et al.* Injunction restraining defendant from making use of words, "The Weekly Time Magazine" and word "Time" in connection with magazines, newspapers or periodicals (notice Mar. 10, 1953).

T. M. 350,030, Greenbrier Frocks, Inc., Women's dresses, filed Mar. 6, 1953, D. C., S. D. N. Y., Doc. 83/165, *Solovei Bros., Inc.* v. *Nan Reed, Inc.*

NOTICES

Erratum

All references to Patent No. 2,639,792 to Jacob M. Gwynne for Window Construction, appearing in the OFFICIAL GAZETTE of May 26, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patents

(C. A. Va.) Baer Patent No. 2,373,285, for a tobacco pouch. Claims 6, 8, and 11, *Held* invalid. *Thermoseal Products, Inc.* v. *Larus & Bro. Co.*, 202 F.2d 698; — USPQ —.

(C. A. Mass.) Carlson Patent No. 2,510,939, for a collable steel ruler. Claims 2, 10, 13, 14, 16, and 17, *Held* invalid, and claims 6, 7, 8, and 11, *Held* not infringed, even if valid. *Carlson & Sullivan* v. *Bigelow & Dowse Co.*, 202 F.2d 654; — USPQ —.

(C. A. Md.) Ackermans Patent No. 2,549,153, for a folding top for automobiles, *Held* valid and infringed. *Ackermans* v. *General Motors Corp.*, 202 F.2d 642; 96 USPQ 281.

Classification Order No. 143

May 5, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *Class 97, Plows* (Division 1)

47 **Motor propelled**
48 Steered by walking attendant
49 Automatic steering attachments
50 **Motor operated frame or implement lifts**
51 **Furrow evening lifts**
72 **Draft operated frame or implement lifts**
73 Crank axle clutch
74 Lifting leg
75 Draft link
183 **Releasable implement connections**
184 Resilient
185 Break pin

Implement frames
232 Motor propelled
Implement control
Elevating and depressing
244 Power operated

In *Class 280, Land Vehicles* (Division 47)

Wheeled
47 Hand
48 Steering
49 Trucks and barrows
50 Receptacle
51 Two-wheel
52 One-wheel
53 Two-wheel
54 With additional wheel attachment
55 Tandem wheels
56 Warehouse type
57 Movable toe
58 One-wheel
59 Three-wheel
60 Two-wheel
61 Article supports
61.5 Repairman's creepers

CHANGE SUBCLASS POSITION

In *Class 280, Land Vehicles* (Division 47), change the position of subclass 2 to read:

Wheeled
2 Dropped bodies (to follow subclass 47.41)

and change the position of subclasses 87.01—87.05 to read:

Wheeled
87.01 Coasters (to follow subclass 46)
87.02 Occupant pushed type
87.03 Yieldable
87.04 Standing occupant
87.05 Extensible or knockdown

ESTABLISH SUBCLASSES

In *Class 55, Harrows and Diggers* (Division 1)
(F. R. REILLY and J. B. TAPHORN, *Classifiers*)

Harrows
Disk
Pivoted gang
81.1 Having means to facilitate turning (to follow subclass 124)
81.3 Adjusting connection offset from draft connection
81.5 Swingable drawbar shifts rear gang
81.7 Adjustment utilizing draft
81.9 Multiple gang

In *Class 97, Plows* (Division 1)
(R. A. WAHL, F. R. REILLY, W. BERLOWITZ, J. B. TAPHORN, *Classifiers*)

Alternating and hillside
24.5 Implement draft-revolvable on transverse axis (to follow sub. 24)
46.01 **Motor or ground wheel operated implement control** (to follow sub. 46)
46.03 Automatic type
46.05 Plant detector type
46.07 Constant draft
46.09 Overload trip
46.11 Frame shifted relative to the actuating ground wheel
46.13 With associated adjustment of implement relative to frame
46.15 Crank axle mount
46.17 Wheel engaged by swingable arm on frame
46.19 Wheel locked to crank axle
46.21 Partial revolution clutch on swingable part of crank
46.23 Clutch thrust arm adjustable relative to frame
46.25 "Constant height" depth adjustment
46.27 Power unit mounted on pivotally connected implement
46.29 Self-releasing power unit
46.31 Latch type release power unit mounting
46.33 Transmission of power unit output to pivotally connected implement
46.35 Plural power units
46.37 Sequentially operable
46.39 Independently operable
46.41 Selective or successive shifting by a single power unit
46.43 Fixed sequence
46.45 Plural simultaneous shifting by a single power unit, selective return
46.47 With adjustable bias limiting devices
46.49 Adjustment of power device relative to support
46.51 Adjustment of part to be shifted relative to power device
46.53 "Constant height" depth adjustment
46.55 Power and manual adjustment
46.57 Electro-mechanically adjusted implements
46.59 Fluid pressure adjusted implements
46.61 With latch lock
46.63 Windlass type implement adjusting devices
46.65 Oscillating type implement adjusting devices
46.67 Reciprocating type implement adjusting devices
46.69 Rack and pinion relatively movable into engagement
46.71 Rotary drive type implement adjusting devices
46.73 Self-interrupting type
46.81 **Ground engageable adjusting lever**
46.83 **Draft revolvable implement carrier or mount**
46.85 **Shiftable draft link**
46.87 **Adjustment resulting from articulative movement**
46.89 **With relatively movable abstruction feeler**
46.91 **With fender type obstruction engaging device**
46.93 **Constant draft devices**
46.95 **Constant depth devices**
47 **Implements associated with self-propelled vehicles**
47.01 Steered by attendant
47.02 With non-operator steering control means for motor vehicle
47.03 Non-symmetrically arranged frame, running gear or operator's station
47.04 Articulated vehicle with two-wheel propulsion unit
47.05 Movably mounted motor and implement parts interconnected
47.06 Steering apparatus interconnected with movable implement part
47.07 Dirigible wheel on implement
47.08 Transverse tool bar laterally shiftable
47.09 Individually mounted tools laterally shiftable
47.1 Implement dirigible wheel actuated by relative movement of implement to vehicle
47.11 With means to facilitate mounting of the implement
47.12 Vehicle wheels pass over implement parts
47.13 Vehicle interconnected means moving implement part to attaching position
47.14 "Drive into position" type
47.15 Implement resting on supports in detached position
47.16 Track laying vehicle
47.17 Laterally movable row treating implement
47.18 Operator controlled
Steering type
47.19 Combined or convertible
47.2 Semi-trailer type
47.21 Pusher type
47.22 Rigid frame and tool
47.23 Lifting by adjusting hitch point
47.24 Other end simultaneously adjusted
47.25 Vehicle engaging adjusting mechanism for movable part on a movably mounted implement
47.26 Adjusting mechanisms selectively actuated singly or simultaneously
47.27 Readily severable adjusting mechanisms
47.28 Fixed position transverse tool bars or frames
47.29 Non-linear bar
47.3 With rearwardly extending pusher members
47.31 Mounted across the rear of vehicle
47.32 Lifting mechanism on parallel separate bar
47.33 Non-rotatable shaft having rockable lifting member thereon
47.34 Implements located forward of rear end of vehicle
47.35 Connected to front axle
47.36 Single laterally offset type
47.37 Single laterally offset type
47.38 Wheel path implements
47.39 Preceding dirigible wheels
47.4 Laterally offset implements
47.41 Lying beneath vehicle
47.42 Laterally extending tool bar type
47.43 Wheel track tools
47.44 Vertically movable
47.5 Movable draft connection in rear of forward connection
47.51 Vertical movement interrelated with another
47.52 Yawing
47.53 Adjustable lateral leveling
47.54 Lateral shifting
47.55 Forward implement connection vertically movable
47.56 Gauge wheel associated with swingable draft member
47.57 Adjustable to various positions
47.58 Diagonal pivot
47.59 Plural laterally spaced implements with separate draft connections
47.6 Vertically movable transverse tool bar
47.61 Swingably connected to vehicle
47.62 On longitudinal beams extending forward of rear axle and between wheels thereof
47.63 Translatable tools
47.64 With lateral sway restraining means
47.65 Swayable implements
47.66 **Overload shifting**
47.8 Against spring return device
47.81 Implement frame shifted relative to ground support
47.82 Swinging about fixed pivot axis
47.83 Link between spring and tool
47.84 Linkage train
47.85 Spring between movable members
47.86 Link between spring contacting lever and tool
47.87 Endwise yielding spring
47.88 Resilient latch
47.89 Friction lock
47.9 Frangible lock (e. g., shear pin)
47.91

In *Class 280, Land Vehicles* (Division 47)
(J. J. RAPHLING, *Classifier*)

Wheeled
With worker's support or shade
32.6 Repairman's creepers
33.99 Nesting vehicles (to follow subclass 33.17)
47.1 Body rocking by wheel rotation (to follow subclass 87.05)
47.11 Wheel steering by attendant
47.12 Vehicles with rocker or fulcrum supports auxiliary to wheels
47.13 Tiltable vehicles, stabilized by attendant or article
47.14 With floats
47.15 Vehicle axle, shaft or spring engaging
47.16 With auxiliary wheel stabilizing means at both ends
47.17 Handle-propelled vehicles
47.18 Convertible, selective or changeable body
47.19 Plural load supports
47.2 With auxiliary wheel stabilizing means
47.21 With shiftable main axle support
47.22 Spring suspension
47.23 Load base below wheel axis (e. g., drop body type)

Wheeled—Continued.
Tiltable vehicles, stabilized by attendant or article—Continued.
Handle-propelled vehicles—Continued.
47.24 Laterally spaced wheels
47.25 With occupant seat
47.26 With receptacle body
47.27 With toe (e. g., warehouse truck)
47.28 With auxiliary toe or rack
47.29 Movable
47.3 Single wheel vehicle
47.31 With receptacle body (e. g., wheelbarrow)
47.32 Single wheel vehicle
47.33 With leg supports
47.34 Stable vehicles, handle-propelled
47.35 Plural load supports
47.36 Reversible handles
47.37 Adjustable and/or foldable handles
47.38 Occupant seating type (e. g., baby carriages)
47.39 Reversible body
47.4 Seat with back and/or foot rest
47.41 Body movably supported relative to wheels
79.1 Body with bracketed type or non-suspended axles (e. g., platform type) (to follow subclass 79)
79.2 Receptacle or occupant seating body
79.3 Rack type body

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished Class	Abolished Subclass	Disposition Class	Disposition Subclass
97	47	97	47+
	48		47.01
	49		47.02
	50		46.01+
	51		46.37, 46.43
	72		46.11+
	73		46.21+
	74		46.81
	75		46.85
	183, 184		47.80+
	185		47.91
	232		47
	244		46.01+
280	47	280	33.99, 47.1, 47.34+
	48		47.11
	49		47.13+, 79.1+
	50		33.99, 47.34+, 79.2
	51		47.13, 47.17+
	52, 53		47.17+
	54		47.2, 47.34
	55		47.17
	56		47.12, 47.27+
	57		47.29
	58		47.17+
	59		47.34+, 79.1
	60		47.1, 47.22, 47.25
	61		47.13+, 79.1+
	61.5		32.6

PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES

Established Class	Established Subclass	Source Class	Source Subclass
55	81.1–81.5	55	83
	81.7		81
	81.9		83
97	24.5	97	26
	46.01, 46.03		50
	46.05		50, 137
	46.07, 46.09		50
	46.11		72

PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES

Established Class	Established Subclass	Source Class	Source Subclass
97	46.13	97	72, 73
	46.15, 46.17		72
	46.19		72, 73
	46.21–46.25		73
	46.27–46.35		50
	46.37		50, 51
	46.39, 46.41		50
	46.43		50, 51, 72
	46.45–46.63		50
	46.65		50, 72, 244
	46.67		50, 72
	46.69		72, 244
	46.71		50
	46.73		50, 73
	46.81, 46.83		74
	46.85		75
	46.87		72, 75
	46.89		74, 137
	46.91		137
	46.93, 46.95		47
	47		47
	47.01		48
	47.02		49
	47.03		47, 232
	47.04		47
	47.05		47, 232
	47.06–47.37		47
	47.38		47, 137
	47.39–47.66		47
	47.8		183, 184
	47.81		72, 184
	47.82		72, 75, 184
	47.83–47.88		184
	47.89		183, 184
	47.9		183
	47.91		183
280	32.6	280	61.5
	33.99		47, 49+
	47.1		47, 60
	47.11		48
	47.12		49+
	47.13		49+, 61
	47.14, 47.15		61
	47.16		49+, 61
	47.17		49+, 60
	47.18		49+
	47.19		50+, 53+, 58
	47.2		49, 54+
	47.21		51, 52, 53+, 58
	47.22		50+, 60
	47.23		49+
	47.24		50+, 53
	47.25		60
	47.26		51, 53+, 60
	47.27		53, 56
	47.28		56+
	47.29		57
	47.3		58, 61
	47.31		52
	47.32		61
	47.33		51, 52, 53+
	47.34		47, 49+
	47.35		47, 49+
	47.36		47, 59
	47.37		47, 49+
	47.38		47, 59
	47.39, 47.4, 47.41		47
	79.1		49, 61
	79.2		49, 50, 61
	79.3		49, 50, 61

THOMAS F. MURPHY,
Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,626,155. Baseball Game Board. Patented Jan. 20, 1953. A toy baseball game is played on a board having play-indicating means, and two teams of players, separated from the board, which are advanced around the board by means of magnets. The players have metal bases. Magnets positioned against the under side of the board beneath the bases are mounted on conveying means for conveying the magnets in a track around the diamond, advancing the players by magnetic attraction. The conveying means include a spool connected by a cord to a winding spool on an operating panel at one end of the board. Pressing a button actuates a turning movement of the pitcher and spins a series of rollers which stop with certain indicia showing to indicate the play. After each delivery, the operator records the ball, strike, or out by pointers provided on the panel. When base hits are indicated, he turns the winding spool to advance the players around the bases. (Owner) Ferdinand Beierle, Temple Trailer, Village Lot 44, Alexandria, Va. Group 39—41. Reg. No. 50,737.

Pat. 2,491,818. Vehicular Spraying Machine. Patented Dec. 20, 1949. Wheeled machine for spraying liquid weed killers, fertilizers, insecticides, etc., sprays only when it is manually pushed forward, direct fluid pressure being produced by a circulating pump geared to the wheels. The machine includes a supporting frame with a tank extending upwardly therefrom and a push type handle bar for manual operation. The frame has a transverse axle supporting a pair of wheels. A ratchet collar at each end of the axle is normally spring-urged into engagement with a serrated collar secured to each wheel. Upon forward motion of the sprayer a rotary motion is imparted to the axle through the collars. Upon backward motion the serrated collar is capable of rotating without turning the ratchet collar. The discharge side of a rotary pump communicating with the tank is connected to a transverse pipe having a central and side branches, each provided with a spray nozzle. Valves in the pipe control the delivery to the nozzles and permit the use of one or more of the nozzles as desired. (Owner) Walter S. Lapp, 724 Derstine Ave., Lansdale, Pa. Group 35—22—61. Reg. No. 50,738.

Pat. 2,618,262. Shallow-Water Diving Helmet. Patented Nov. 18, 1952. Diver's helmet formed with substantially semi-spherical front and rear sections with sealed and protected windows in the front, sides, and top of the front section. The sections have depending weighted portions to rest against the diver's chest and back. Air is supplied through a connection in the lower part of the front section that opens into a continuous duct extending around the inner surface of the front window and discharges air from all sides over the window. Nozzles attached to the duct discharge air under pressure to the side windows and top window. The usual fogging resulting from breathing is continuously removed from the windows. Should the air line break, the air within the upper part of the helmet forms an air cushion and keeps the water level below the diver's chin. (Owner) J. R. Lindinger, 2459 Southwest 25th Terrace, Miami 33, Fla. Group 39—49. Reg. No. 50,739.

Pat. 2,605,606. Variable Pitch Tube Propeller. Patented Aug. 5, 1952. Variable pitch tube propeller includes a cylindrical rotor having propeller blades suspended therein from their outer ends, thus eliminating the necessity of providing a hub in the center of the rotor. Discs to which the outer ends of the blades are secured are seated in recesses in the inner surface of the rotor with shafts extending outwardly from the discs journaled in the wall of the rotor. A pitch-adjusting sleeve rotatably and slidably mounted on the outer surface of the rotor and operatively connected to arms on the ends of the shafts may be rotated to change the pitch of the blades. A cylindrical housing in which the rotor is journaled is provided with an integral turntable at the upper end. The turntable may be rotatably mounted in an opening in a supporting surface, which may be the bottom of the hull of a ship, and the turntable rotated to swing the longitudinal axis of the housing and rotor through an angle of 360°. (Owner) Alfred M. Pilz, 221 West Monroe St., Princeton, Ind. Group 37—22—31. Reg. No. 50,740.

Pat. 2,616,769. Elevating Ladder Scaffold. Patented Nov. 4, 1952. Adjustable scaffold device for use with a pair of spaced rolling ladders so the assembly may be moved along the sides of a building as a unit. The scaffold platform has a slot at each end to receive the ladders. A pair of weighted lock rods for each ladder are pivotally secured to the under side of the platform for engaging the rungs of the ladders. A stop block for each rod is secured to the under side of the platform. A conventional block and tackle arrangement is utilized for raising and lowering the platform. In use, the platform may be raised to any desired height on the ladders, and when the proper height is reached the lock rods in each pair fall over an appropriate rung. Then, upon slight lowering of the platform, the rods engage the stops and automatically lock the platform against downward movement. When it is desired to lower the platform, it is raised to a position between rungs on the ladders, and a plunger is then manually depressed to swing the lock rods away from the rungs so the platform may be lowered. (Owner) Nelson H. Rector, 230 Rolling Road, N. E., Atlanta, Ga. Group 25—99. Reg. No. 50,741.

Pat. 2,625,294. Tear Strip Remover for Cans. Patented Jan. 13, 1953. Opener for vacuum cans is adjustable to different size cans. A casing has an enlarged end and a narrow elongated portion projecting therefrom. A drive mechanism mounted within the enlarged end includes a crank arm extending from the upper surface and a shaft extending downwardly from the lower surface. The shaft has a slit in its lower end to engage the tab of a removable securing strip around the can. Spaced rollers pivoted to the under side of the casing engage the sides of the can. A longitudinal slot in the elongated portion adjustably supports a roller which is spring-urged toward the can rim so the can opener can be rotated as the crank is turned to wind the strip upon its shaft. (Owner) Alfred S. Rodin, 123d St. and 80th Ave., Palos Park, Ill. Group 33—51. Reg. No. 50,742.

Pat. 2,449,914. Detachable Heel. Patented Sept. 21, 1948. Shoe has a combined heel and shank stiffener which may be locked to the shoe or easily removed when shoe needs to be repaired. The shoe has an insole and an outer sole separated by a filler and spaced apart near the rear end of the outsole to provide a passage to slidably receive the shank stiffener. The heel has an upper plate formed integrally with the shank stiffener. The plate has a central opening to receive a bolt which extends downwardly into a threaded opening in the heel. A lever pivotally mounted on the bolt has a cam engageable with the plate in one pivoted position to lock the heel on the shoe. When the lever is pivoted to another position, the bolt may be rotated and removed to detach the heel from the shoe. The lever normally lies flush with the insole. (Owner) Harvey Simonetti, 4909 43d Ave., Hyattsville, Md. Group 31—41. Reg. No. 50,743.

Pat. 2,614,316. Automatic Rotating Descaler for Wheel Blocks or the Like. Patented Oct. 21, 1952. Apparatus utilizes high velocity water sprays for quickly descaling heated cylindrical blanks in the manufacture of railroad wheels or the like so that sufficient heat remains in the block to permit proper forging. A piston slidingly mounted in a vertical cylinder carries a crosshead fixedly mounted on its upper end. Rotation of the crosshead is prevented and upward movement of the piston is limited by cooperating guide rods and a stop member. A freely rotatable turntable is mounted on the crosshead, and a platform is mounted by spring pins on the turntable. A plurality of vanes with knife-edge top surfaces project upward from the platform to support a workpiece. A housing surrounding the platform and extending upwardly therefrom houses a spray system. The platform is raised above the housing by the piston to receive the workpiece and then lowered to position it within the housing. High velocity sprays of water are directed against the vanes and against the workpiece with a force which rotates the platform and descales the workpiece. (Co-owner) William E. Schmidt, 6810 Dante Ave., Chicago 37, Ill. Groups 33—12—21—92; 37—11. Reg. No. 50,744.

Eastman Kodak Company offers non-exclusive licenses under the patents listed below upon the following terms: Group A—Under the patents listed in this group, upon reasonable terms, to domestic applicants.

Applications for licenses may be addressed to: Director, Patent Department, Eastman Kodak Company, 343 State St., Rochester 4, N. Y.

The majority of the following 74 patents relate generally to the field of photography. Groups 28—83—89: 35—43—54; 39—12—13.

Group A

Pat. 2,275,862. Extraction of Lower Aliphatic Acids. Mar. 10, 1942. Reg. No. 50,745.

Pat. 2,367,665. Photographic Stripping Film. Jan. 23, 1945. Reg. No. 50,746.

Pat. 2,376,141. Fine Grain Developers. May 15, 1945. Reg. No. 50,747.

Pat. 2,378,266. Color Couplers Having Six-Membered Rings. June 12, 1945. Reg. No. 50,748.

Pat. 2,384,592. Single-Powder Photographic Developers. Sept. 11, 1945. Reg. No. 50,749.

Pat. 2,388,859. Mixed Grain Emulsions. Nov. 13, 1945. Reg. No. 50,750.

Pat. 2,413,716. Synthetic Resin. Jan. 7, 1947. Reg. No. 50,751.

Pat. 2,414,207. Preparation of Photographic Emulsions With Polyvinyl Acetate Having a High Acetyl Content. Jan. 14, 1947. Reg. No. 50,752.

Pat. 2,415,624. Light-Sensitive Layers Having Ultraviolet Light Filters. Feb. 11, 1947. Reg. No. 50,753.

Pat. 2,415,631. Photographic Paper. Feb. 11, 1947. Reg. No. 50,754.

Pat. 2,415,635. Illumination Arrangement for Photographic Enlargers. Feb. 11, 1947. Reg. No. 50,755.

Pat. 2,415,638. Resinous Copolymers of 4-Methylene-1,3-Dioxolane. Feb. 11, 1947. Reg. No. 50,756.

Pat. 2,415,644. Method and Apparatus for Continuously Applying a Coating to a Web and Controlling the Thickness of the Same. Feb. 11, 1947. Reg. No. 50,757.

Pat. 2,415,646. Method and Apparatus for Grinding and Polishing Surfaces. Feb. 11, 1947. Reg. No. 50,758.

Pat. 2,415,661. Beryllium Boro-Phosphate Glass. Feb. 11, 1947. Reg. No. 50,759.

Pat. 2,415,666. Ascorbic Acid in Photographic Developing Solutions. Feb. 11, 1947. Reg. No. 50,760.

Pat. 2,417,240. Roll Holding Camera. Mar. 11, 1947. Reg. No. 50,761.

Pat. 2,418,613. Fog Inhibitors for Photographic Emulsions. Apr. 8, 1947. Reg. No. 50,762.

Pat. 2,418,623. Stable Diazo Material. Apr. 8, 1947. Reg. No. 50,763.

Pat. 2,418,624. Azo Dyes for Color Photography. Apr. 8, 1947. Reg. No. 50,764.

Pat. 2,418,629. Aromatic Hydrocarbons and Their Halogen Derivatives as Antifoggants. Apr. 8, 1947. Reg. No. 50,765.

Pat. 2,418,644. Sliding Shutter for Cameras. Apr. 8, 1947. Reg. No. 50,766.

Pat. 2,418,670. Copyholder. Apr. 8, 1947. Reg. No. 50,767.

Pat. 2,419,221. Copolymers of 2-Halogeno-Allyl Alcohol or 2-Halogeno-Allyl Esters. Apr. 22, 1947. Reg. No. 50,768.

Pat. 2,419,974. Silver Halide Emulsions Containing Water-Insoluble Hydrazine Derivatives. May 6, 1947. Reg. No. 50,769.

Pat. 2,419,975. Increasing Speed and Contrast of Photographic Emulsions. May 6, 1947. Reg. No. 50,770.

Pat. 2,420,587. Self-Threading Device for Projectors. May 13, 1947. Reg. No. 50,771.

Pat. 2,420,597. Inexpensive Camera Shutter. May 13, 1947. Reg. No. 50,772.

Pat. 2,420,606. Workholder for Use in Grinding and Polishing Transmission Surfaces of Roof Prisms. May 13, 1947. Reg. No. 50,773.

Pat. 2,420,628. Detective Camera. May 13, 1947. Reg. No. 50,774.

Pat. 2,420,630. Disazo Dye Compounds. May 13, 1947. Reg. No. 50,775.

Pat. 2,420,631. Dis-Azo Dyes for Color Photography. May 13, 1947. Reg. No. 50,776.

Pat. 2,420,636. Photographic Masking. May 13, 1947. Reg. No. 50,777.

Pat. 2,422,008. Airspaced Photographic Support. June 10, 1947. Reg. No. 50,778.

Pat. 2,422,018. Camera Shutter. June 10, 1947. Reg. No. 50,779.

Pat. 2,422,032. Film Container Reel. June 10, 1947. Reg. No. 50,780.

Pat. 2,422,033. Orthopseudo Stereo Range Finder. June 10, 1947. Reg. No. 50,781.

Pat. 2,423,676. Eyepiece. July 8, 1947. Reg. No. 50,782.

Pat. 2,423,687. Gel-Point Indicator. July 8, 1947. Reg. No. 50,783.

Pat. 2,423,706. Blade and Cover Blind Shutter. July 8, 1947. Reg. No. 50,784.

Pat. 2,423,709. 4-Aryl Thiazole (and Selenazole)-5-Acetic Acids and Esters and Process of Producing the Same. July 8, 1947. Reg. No. 50,785.

Pat. 2,423,710. Sensitized Photographic Emulsion. July 8, 1947. Reg. No. 50,786.

Pat. 2,423,715. Apparatus for Abrading Surfaces. July 8, 1947. Reg. No. 50,787.

Pat. 2,423,718. Stadiametric Range Finder. July 8, 1947. Reg. No. 50,788.

Pat. 2,423,730. Acylamino Phenols. July 8, 1947. Reg. No. 50,789.

Pat. 2,423,708. Apparatus for Coating Flexible Webs. July 8, 1947. Reg. No. 50,790.

Pat. 2,425,363. Procedure for Fixing Nongelatin Emulsions and Improved Nongelatin Emulsion Fixing Baths. Aug. 12, 1947. Reg. No. 50,791.

Pat. 2,425,403. Fluogermanate Glass. Aug. 12, 1947. Reg. No. 50,792.

Pat. 2,425,878. Oxidation of Lower Aliphatic Alcohols. Aug. 19, 1947. Reg. No. 50,793.

Pat. 2,425,879. Oxidation of Alcohols. Aug. 19, 1947. Reg. No. 50,794.

Pat. 2,425,880. Oxidation of Lower Aliphatic Alcohols. Aug. 19, 1947. Reg. No. 50,795.

Pat. 2,425,881. Oxidation of Lower Aliphatic Alcohols. Aug. 19, 1947. Reg. No. 50,796.

Pat. 2,425,882. Oxidation of Lower Aliphatic Alcohols. Aug. 19, 1947. Reg. No. 50,797.

Pat. 2,426,215. Thermoplastic Synthetic Resin Optical Lap. Aug. 26, 1947. Reg. No. 50,798.

Pat. 2,428,054. Photographic Color Correction Using Colored Couplers. Sept. 30, 1947. Reg. No. 50,799.

Pat. 2,428,208. Dichromate Bleach Bath Containing a Wetting Agent and Method of Bleaching Therewith. Sept. 30, 1947. Reg. No. 50,800.

Pat. 2,428,860. Tetrahydrodurylic Acid. Oct. 14, 1947. Reg. No. 50,801.

Pat. 2,428,951. Seal for Containers. Oct. 14, 1947. Reg. No. 50,802.

Pat. 2,429,469. Thioketones Containing a Cycloalkyl Group. Oct. 21, 1947. Reg. No. 50,803.

Pat. 2,430,539. Titanium Fluophosphate Glass. Nov. 11, 1947. Reg. No. 50,804.

Pat. 2,430,548. Camera Objective Lenses. Nov. 11, 1947. Reg. No. 50,805.

Pat. 2,430,550. Plastic Objective. Nov. 11, 1947. Reg. No. 50,806.

Pat. 2,430,558. Photographic Emulsion Sensitized With Combination of Merocyanine Dye and a Monomethinecyanine, a Trimethinecyanine, a Dimethinehemicyanine, or a Styryl Dye. Nov. 11, 1947. Reg. No. 50,807.

Pat. 2,430,565. Positive Sound Track in Multilayer Film. Nov. 11, 1947. Reg. No. 50,808.

Pat. 2,430,585. Lubricated Photographic Film and Process of Preparation. Nov. 11, 1947. Reg. No. 50,809.

Pat. 2,430,587. Modified Petzval Type Projection Lenses. Nov. 11, 1947. Reg. No. 50,810.

Pat. 2,430,595. Wide-Angle Optical System. Nov. 11, 1947. Reg. No. 50,811.

Pat. 2,432,387. Lenses for Cinematography. Dec. 9, 1947. Reg. No. 50,812.

Pat. 2,432,414. Photographic Plate Holder. Dec. 9, 1947. Reg. No. 50,813.

Pat. 2,432,460. Resinous Polymers of 1-Acyloxy-1,3-Butadienes. Dec. 9, 1947. Reg. No. 50,814.

Pat. 2,432,468. Supersensitized Silver Halide Emulsion. Dec. 9, 1947. Reg. No. 50,815.

Pat. 2,432,479. Focusing Lens Mount. Dec. 9, 1947. Reg. No. 50,816.

Pat. 2,507,418. Coating Machine for Sheets of Material. May 9, 1950. Reg. No. 50,817.

Pat. 2,604,388. Photosensitive Coating. July 22, 1952. Reg. No. 50,818.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 2, 1953

[VOL. 671. No. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 610,253. American Art Clay Company, Indianapolis, Ind. Filed Feb. 19, 1951.

AMACO

Applicant claims ownership of Registrations Nos. 285,007 and 343,479.

For Modeling Clay, Clay Flour, Moist Clay, Gesso Clay, Floral Clay, Pottery Clays, Firing Clay, Porcelain Clay, Talc Clay, Engobe Materials, and Slip Materials.

Claims use since 1924.

Ser. No. 625,617. Oregon Dairy Breeders Association, Corvallis, Oreg. Filed Feb. 27, 1952.



For Cattle Semen.

Claims use since Oct. 3, 1948.

Ser. No. 631,694. Strong & Fisher Limited, Rushden, England. Filed June 24, 1952.

SUEDALOPE

Applicant claims ownership of British Registration No. 701,720, dated Oct. 5, 1951.

For Suede Leather.

Ser. No. 633,735. Ray Industries, Inc., Detroit, Mich., and Los Angeles, Calif. Filed Aug. 11, 1952.



The drawing is lined for red. Applicant disclaims the use of the word "Charcoal" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 194,314, 200,766, and 297,668.

For Charcoal Briquets.

Claims use since Jan. 2, 1950.

Ser. No. 634,400. Garan Chemical Corporation, Los Angeles, Calif. Filed Aug. 25, 1952.

GARALEASE

For Lacquer Type Parting Agent Used for the Release of Plastic Parts for Molds.

Claims use since on or about March 1948.

Ser. No. 634,407. Garan Chemical Corporation, Los Angeles, Calif. Filed Aug. 25, 1952.

MOLGARD

For Internal Parting Agent Added to the Resin To Aid in Its Release From Molds.

Claims use since on or about November 1950.

Ser. No. 634,569. Ben Hur Coal Co. Inc., Henryetta, Okla. Filed Aug. 28, 1952.



The drawing is lined to indicate the color red. The words "Henryetta, Oklahoma" are disclaimed apart from the mark

shown in the drawing. The picture of the individual appearing in the trade-mark is that of Judge Blackstone, the famous English jurist and legal writer, now deceased.
For Coal.
Claims use since June 19, 1952.

Ser. No. 635,361. General Latex & Chemical Corporation, Cambridge, Mass. Filed Sept. 17, 1952.

VULCRUMB

For Natural, Synthetic Rubber, or Rubberlike Powder or Pellets Suitable for Combining With Asphalt or Asphaltlike Materials Used Alone or in Conjunction With Other Materials for Changing the Properties Thereof.
Claims use since Nov. 6, 1951.

Ser. No. 636,667. Weston Dodson & Company, Incorporated, Bethlehem, Pa. Filed Oct. 15, 1952. (Sec. 2f.)

WESTON

Applicant claims ownership of Registrations Nos. 190,977 and 561,102.
For Coal.
Claims use since in the early part of 1913.

Ser. No. 636,697. Energized Materials Corporation, Chicago, Ill. Filed Oct. 16, 1952.



For Stretched Thermoplastic Films.
Claims use since May 21, 1952.

Ser. No. 636,753. U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Filed Oct. 16, 1952.

RECLAIMATOR

For Reclaimed Rubber.
Claims use since Sept. 29, 1952.

Ser. No. 636,786. International Minerals & Chemical Corporation, Chicago, Ill. Filed Oct. 17, 1952.

TRIPLACT

For Natural Cellulosic Material Treated With Hydrocarbon, Wetting, and Releasing Agents for Incorporation Into Foundry Sands.
Claims use since July 16, 1951.

Ser. No. 636,797. Pell-Bari Farms, Inc., Woodstock, Ill. Filed Oct. 17, 1952.



For Grain Seeds—Namely, Wheat, Oats, Barley, and Rye; Field Seeds—Namely, Alfalfa, Timothy, and Clover and Soy Beans and Hybrid Corn.
Claims use since October 1939.

CLASS 2

RECEPTACLES

Ser. No. 600,540. R. Lally Co., Evanston, Ill. Filed July 12, 1950.



For Woven or Knitted Laundry and Dry-Cleaning Bags.
Claims use since May 21, 1950.

Ser. No. 635,026. Cincinnati Industries Inc., Cincinnati, Ohio. Filed Sept. 9, 1952.

SUBMERSO-PAK

The word "Pak" is disclaimed apart from the mark as shown.
For Receptacles Made of Plural-Ply Creped Paper—Namely, Self Sealing Bags and Case Linera.
Claims use since March 1943.

Ser. No. 635,151. Samuel M. Smith, doing business as Galesburg Vault Company, Galesburg, Ill. Filed Sept. 11, 1952.



For Burial Vaults.
Claims use since Aug. 1, 1952.

Ser. No. 636,777. Dapol Plastics, Inc., Worcester, Mass. Filed Oct. 17, 1952.

CHEF MASTER

For Spice Racks, Napkin Holders, and Salt and Pepper Sets All Made of Plastic.
Claims use since Jan. 13, 1951.

Ser. No. 637,993. Oscar F. Igersheim, doing business under the name of Plastic Fabricators, New York, N. Y. Filed Nov. 13, 1952.

Styled Exclusively by Oscar

The words "Styled Exclusively by" are disclaimed apart from the mark as shown.
For Partitioned Boxes, Cartons, and Cases for Cosmetics and Similar Goods.
Claims use since August 1946.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 611,742. Ralph Rodgers, White Plains, N. Y. Filed Mar. 24, 1951.

RAINFLAP

For Brief Bags and Cases.
Claims use since Jan. 10, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 608,728. The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Filed Jan. 12, 1951.

AIRDENT

For Abrasive Cutting Powder and Abrasive Cleaning Powder for Use in Operative Dentistry Whereby Abrasive Laden Gas Is Directed by the Operator Through and by Specially Designed Devices to Tooth Surfaces for Cutting Purposes in Preparation for Restorations of the Type Indicated, and for Cleaning and Polishing Purposes; and for Use in Industry in the Cutting, Cleaning and Polishing of Small Objects.
Claims use since Dec. 21, 1950.

Ser. No. 634,718. Irvin Waller, doing business as Waller Machine Products Co., Chicago, Ill. Filed Aug. 30, 1952.

DI-NAMIC

For Diamond Abrasive Compound.
Claims use since June 18, 1952.

Ser. No. 637,131. S. C. Johnson & Son, Inc., Racine, Wis. Filed Oct. 24, 1952.

SO-MO

For Floor and Furniture Polish.
Claims use since June 6, 1949.

CLASS 5

ADHESIVES

Ser. No. 614,492. Copydex Manufacturing Co. Ltd., London, England. Filed May 29, 1951.

Copydex

The black rectangle represents no part of the mark but is intended for background purposes only, the label being black as a whole. No claim is made to the color black or to the representation. Applicant claims ownership of British Registration No. 680,469, dated June 1, 1950.
For Rubber Base Liquid Adhesives.

Ser. No. 624,026. Crag Products, Inc., Newark, N. J. Filed Jan. 24, 1952.

ROYLITE

For Ingredient for Addition to Adhesive Cements To Increase Flexibility and Adherence of Said Cement.
Claims use since Dec. 10, 1951.

Ser. No. 633,149. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed July 28, 1952.

Desmocoll

Applicant claims ownership of German Registration No. 613,677, dated Nov. 8, 1951.
For Adhesives of the Isocyanate Modified Polyester Type.

Ser. No. 636,143. Nashua Corporation, Nashua, N. H. Filed Oct. 3, 1952.



The mark consists of a triangle. Applicant claims ownership of Registrations Nos. 104,260, 531,982, and others.
For Adhesively Coated Paper Tape.
Claims use since 1911.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 573,905. U. S. Sanitary Specialties Corporation, Chicago, Ill. Filed Feb. 15, 1949.

Mellisol

For Derivative of a Dehydroxy Alcohol.
Claims use since Nov. 9, 1948.

Ser. No. 626,169. Kali Manufacturing Company, Philadelphia, Pa. Filed Mar. 8, 1952. (Sec. 2f.)

KALI

Applicant claims ownership of Registration No. 107,711.
For Chemical Preparations for Use in Textile and Metal Industries—Namely, Red Oil, Castor Oil, Leather Softening Oil, Neat's-Foot Oil, Tanning Oils, Wool Fat, Metal Heat Treating Compositions, Metal Quenching Componnds, and Metal Surface Treating Compositions.
Claims use since Nov. 1, 1914.

Ser. No. 629,934. Dodge & Olcott, Inc., New York, N. Y. Filed May 20, 1952.

SOLVAROM

For Solvents and Solvent Mixtures Adapted for Use in Cosmetics, Toilet Preparations, Detergents, and Soaps.
Claims use since Oct. 10, 1951.

Ser. No. 633,817. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Filed June 13, 1952.

Drawinol

Applicant claims ownership of German Registration No. 483,357, dated Mar. 6, 1936.
For Aliphatic Esters and Ketones, Photographic Film Developers, Preparations for Exterminating Noxious Animals and Plant Pests.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 636,023. Melco Manufacturing Company, Chicago, Ill. Filed Oct. 1, 1952.

MELCO

For Cigarette Snuffers in the Nature of Ash Receivers.
Claims use since July 23, 1952.

Ser. No. 639,033. General Motors Corporation, Detroit, Mich. Filed Dec. 5, 1952.



For Cigarette Lighters.
Claims use since May 1949.

CLASS 10

FERTILIZERS

Ser. No. 628,584. Spencer Chemical Company, Kansas City, Mo. Filed Apr. 23, 1952.

Mr. N

The letter "N" is disclaimed apart from the mark shown in the drawing.
For Ammonium Nitrate Fertilizer in the Form of Prills.
Claims use since Apr. 2, 1952.

Ser. No. 629,221. Spencer Chemical Company, Kansas City, Mo. Filed May 5, 1952.



The letter "N" is disclaimed apart from the mark shown in the drawing.
For Ammonium Nitrate Fertilizers in the Form of Prills.
Claims use since Apr. 2, 1952.

Ser. No. 637,221. Howard Wong, doing business as European Coast Chemical House, New York, N. Y. Filed Oct. 27, 1952.



For Bone Meal and Dehydrated Poultry and Cow Manure for Use as Fertilizers.
Claims use since Sept. 7, 1951.

Ser. No. 637,224. Howard Wong, doing business as European Coast Chemical House, New York, N. Y. Filed Oct. 27, 1952.

UCO

For Bone Meal and Dehydrated Poultry and Cow Manure for Use as Fertilizers.
Claims use since Sept. 17, 1951.

Ser. No. 637,337. Joseph D. Slater, doing business as Plant Marvel Laboratories, Chicago, Ill. Filed Oct. 29, 1952.

LAWN MARVEL

No registration rights are claimed for the word "Lawn" apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 162,226.
For Fertilizers.
Claims use since Oct. 25, 1946.

Ser. No. 637,338. Joseph D. Slater, doing business as Plant Marvel Laboratories, Chicago, Ill. Filed Oct. 29, 1952.

GARDEN MARVEL

No registration rights are claimed for the word "Garden" apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 162,226.
For Fertilizers.
Claims use since May 12, 1946.

Ser. No. 637,558. Howard Wong, doing business as European Coast Chemical House, New York, N. Y. Filed Nov. 3, 1952.



For Bone Meal and Dehydrated Poultry and Cow Manure for Use as Fertilizers.
Claims use since Sept. 17, 1951.

Ser. No. 638,740. Joseph D. Slater, doing business as Plant Marvel Laboratories, Chicago, Ill. Filed Nov. 28, 1952.

PLANT MARVEL

No registration rights are claimed for the word "Plant" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 162,226.
For Plant Foods.
Claims use since Mar. 4, 1922.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 608,747. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio. Filed Jan. 13, 1951. (Sec. 2f.)

St. Clair

For Typewriter Ribbons and Carbon Paper.
Claims use since July 15, 1945.

Ser. No. 638,100. Rarolite Chemical Co. Inc., Raritan, N. J. Filed Nov. 14, 1952.

VEXITE

For Printing Inks for Application to Plastic Film.
Claims use since Jan. 1, 1949.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 608,712. Miracle Adhesives Corporation, New York, N. Y. Filed Jan. 12, 1951.

Miracle
PLASTIC
UNDERLAYMENT

The lines in the drawing are a part of the mark and are not intended to represent color. The term "Plastic Underlayment" is disclaimed when used apart from the rest of the mark. Applicant claims ownership of Registrations Nos. 429,906 and 568,076.
For Underlayment Material in the Nature of a Plastic Synthetic Resin Containing Aggregate and Filler Materials and Intended for Use as a Base and/or Leveling Agent for Floor and Wall Covering Materials—Namely, Wood, Asphalt, Rubber, Ceramic, Metal, Plastic Tile, Linoleum, and Wallboard, or as a Finished Surface.
Claims use since sometime during the year 1942.

Ser. No. 626,448. Douglas Fir Plywood Association, Tacoma, Wash. Filed Mar. 14, 1952. COLLECTIVE MARK.

DFPA

Applicant claims ownership of Registrations Nos. 368,337, 414,609, and others.
For Plywood.
Claims use since Oct. 10, 1938.

Ser. No. 634,550. Russell Reinforced Plastics Corporation, Lindenhurst, N. Y. Filed Aug. 27, 1952.

GLO-LITE

The word "Lite" is disclaimed apart from the mark as shown.
For Decorative Panels of Translucent Plastic Material for Use in Window and Door Openings and as Partitions.
Claims use since on or about July 16, 1952.

Ser. No. 638,550. Peerless Plastics, Culver City, Calif. Filed Nov. 24, 1952.

HIGHLAND—TILE

The word "Tile" is disclaimed apart from the mark as shown.
For Interior Decorative Wall Tile.
Claims use since Nov. 10, 1952.

Ser. No. 638,572. Duratube & Wire Limited, Feltham, Middlesex, England. Filed Nov. 25, 1952.

DURAJOINT

Applicant claims ownership of British Registration No. 686,296, dated Feb. 13, 1950.
For Jointing Material in Strip Form Made of Plastics.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 638,834. Chicago Metallic Mfg. Co., Chicago, Ill. Filed Dec. 2, 1952.

BAKEREX

For Cooking and Baking Utensils—Namely, Cake Pans, Biscuit Pans, Cookie Pans, Bread Pans, Muffin Pans, and Pie Pans.
Claims use since Apr. 2, 1952.

Ser. No. 638,836. The Colorado Fuel and Iron Corporation, Denver, Colo. Filed Dec. 2, 1952.



The trade-mark consists of the capital letters "C F I" without periods between the letters.
For Bolts.
Claims use since Sept. 16, 1950.

Ser. No. 638,977. Rockford Screw Products Co., Rockford, Ill. Filed Dec. 4, 1952. (Sec. 2f.)

"ROCKFORD"

Applicant claims ownership of Registration No. 555,318.
For Socket Head Screws, Drive Screws, Cap Screws, Set Screws, Drilled Head Screws and Bolts; Aircraft Screws, Bolts, and Pins; Sheet Metal Screws, Studs, Stove Bolts, Wing Nuts, Nuts of Various Shapes, Washers, Cotter Pins, Carriage Bolts, Pins, and Clevises.
Claims use since 1944.

Ser. No. 639,034. General Motors Corporation, Detroit, Mich. Filed Dec. 5, 1952.



For Metal Tubing.
Claims use since February 1951.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 642,624. Crucible Steel Company of America, New York, N. Y. Filed Feb. 24, 1953.

T-XCR

For Steel in Unfinished Form.
Claims use since Dec. 31, 1951.

CLASS 15

OILS AND GREASES

Ser. No. 613,663. American Oil Company, Baltimore, Md. Filed May 9, 1951. (Sec. 2f.)



The drawing is lined to indicate the colors red and blue. Applicant claims ownership of Registrations Nos. 150,168, 161,415, and others.
For Gasoline.
Claims use since May 1, 1931.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 599,277. Sundure Paint Corporation, Syracuse, N. Y. Filed June 16, 1950.

PLI-X

For Rubber Base Paints for Interior and Exterior Use—Namely, Enamel, Flat, Stucco; Asbestos Shingle Coats; and Thinner Which Is a Substitute for Turpentine Used in Connection With Paint.
Claims use since Jan. 17, 1940.

Ser. No. 606,354. Woburn Chemical Corp. (N. J.), Harrison, N. J. Filed Nov. 13, 1950.

ISOSTYRE

For Ingredient for Paints, Varnishes, Enamels or Coating Composition—Namely, Styrenated Dehydrated Castor Oil.
Claims use since June 20, 1950.

Ser. No. 607,673. The Harrison Paint & Varnish Company, Canton, Ohio. Filed Dec. 14, 1950. CONCURRENT USE with Registration No. 400,063 for the area comprising the States of Ohio, Michigan, Indiana, Kentucky, West Virginia, Maryland, Virginia, Pennsylvania, and New York.

Artisan

For Ready Mixed Oil Paints, Paint Enamels, and Varnishes.
Claims use since Jan. 28, 1942.

Ser. No. 607,897. Gilman Paint and Varnish Company, Chattanooga, Tenn. Filed Dec. 20, 1950. (Sec. 2f as to "Gilman.")



The lining on the drawing represents contrasting colors, as black, red and blue, but these colors are not considered as Essential Features of the mark. Applicant claims ownership of Registrations Nos. 524,606 and 530,089.
For Varnish.
Claims use since Nov. 20, 1950.

Ser. No. 618,798. International Paint Company, Inc., New York, N. Y. Filed Sept. 14, 1951.

INTER-BLEND
SHADES OF HARMONY

The word "Blend" and the phrase "Shades of Harmony" are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 432,974, 437,620, and others.
For Ready-Mixed Paints and Tinting Colors for Use in Paints or Other Similar Type Coatings.
Claims use since Apr. 2, 1951.

Ser. No. 620,701. Vita-Var Corporation, Newark, N. J. Filed Oct. 30, 1951.

VITA-FLAT

The word "Flat" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 441,537, 291,479, and others.
For Ready-Mixed Paints, Enamels, and Varnishes.
Claims use since Oct. 10, 1951.

Ser. No. 625,424. Kurfees Paint Company, Louisville, Ky. Filed Feb. 23, 1952.

KURFLEX

For Thickener in Powder Form for Thickening Prepared or Ready Mixed Liquid Paints.
Claims use since Nov. 15, 1951.

Ser. No. 626,742. Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Filed Mar. 20, 1952.

Coventry

For Rubber Latex Base Paint.
Claims use since Feb. 6, 1952.

Ser. No. 627,256. Dupli-Color Products Company, Inc., Chicago, Ill. Filed Mar. 29, 1952.

SPRA-FIX

No registration rights are claimed for the word "Spra" apart from the mark shown in the drawing.
For Lacquers and Paints.
Claims use since Mar. 11, 1952.

Ser. No. 631,879. Mobile Paint Manufacturing Co. of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Filed June 27, 1952.

B.L.P.
MoPaxOl

Applicant claims ownership of Registrations Nos. 379,540, 383,305, and others.
For Paint Thinners, Paint Oils, and Paint Diluents.
Claims use since Nov. 8, 1951.

Ser. No. 636,119. The Debevoise Company, Brooklyn, N. Y. Filed Oct. 3, 1952.

DEBECOTE

For Paint in Paste Form Which Is Used as a Protective Coating for All Ferrous and Non-Ferrous Metals Exposed to Water in Motion.
Claims use since July 26, 1935.

Ser. No. 637,871. Indianapolis Paint & Color Co., Indianapolis, Ind. Filed Nov. 10, 1952.

chic

For Ready-Mixed Paints, Varnishes, Enamels, Paint Enamels, and Undercoatings.
Claims use since July 22, 1952.

Ser. No. 638,375. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Filed Nov. 20, 1952.

RUCO

For Asbestos Siding Paint.
Claims use since on or about Nov. 14, 1952.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 629,115. P. Lorillard Company, New York, N. Y. Filed May 2, 1952.



With the exception of the words "Old Gold," all wording is disclaimed apart from the mark as shown, and the representation of cigarettes and the outline of the cigarette package are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 238,664 and 505,017.
For Cigarettes.
Claims use since Mar. 8, 1951.

Ser. No. 636,457. The Armand Company, Des Moines, Iowa. Filed Oct. 10, 1952.

"The King of Kings"

The word "Kings" is disclaimed apart from the mark as shown.

For Cigarettes.

Claims use since July 23, 1952.

Ser. No. 642,359. Larus & Brother Company, Richmond, Va. Filed Feb. 17, 1953. (Sec. 2f.)

Edgeworth

Applicant claims ownership of Registrations Nos. 128,095, 180,799, and others.

For Tobacco and Tobacco Products—Namely, Smoking and Chewing Tobacco.

Claims use since Feb. 2, 1953 on the mark as shown; and since September 1942 on the word "Edgeworth" displayed on a blue background having spaced, vertically disposed white stripes.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 605,220. McCoy's Products, Inc., New York, N. Y. Filed Oct. 20, 1950. (Sec. 2f as to "McCoy.")

the Real McCoy tablets

The word "Tablets" is disclaimed apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 186,709, 358,074, and 378,520.

For Mineral Tablets Containing Extract of Cod Liver Oil.

Claims use since Mar. 10, 1949, on the mark as shown; and since Feb. 26, 1923, on the word "McCoy."

Ser. No. 614,787. Downing B. Randal, doing business as Randal Nutritional Laboratories, Arcadia, Calif. Filed June 5, 1951.

WONDERPHYLL

For Fortified Food Supplement (Characterized by a Combination of Optimum Potency Vitamins; Iron in an Organic Form, Trace Minerals in Natural Form From, Principally Kelp and Whole Liver; Enzymes as Supplied by Papaya, Liver, and Vacuum Dehydrated Alfalfa Juice; Natural Chlorophyll From Aforementioned Alfalfa.

Claims use since Mar. 8, 1950.

Ser. No. 617,334. Charles J. Boudreaux, Abbeville, La. Filed Aug. 4, 1951.



For Ointment.

Claims use since Apr. 11, 1951.

Ser. No. 623,758. A. Gazzoni & C., Bologna, Italy. Filed Jan. 18, 1952.

IDROLINA

Applicant claims ownership of Italian Registration No. 102,790, dated July 5, 1951.

For Powders for Making Effervescent Water Used as an Alkalizing Agent.

Ser. No. 625,034. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Feb. 15, 1952.

PHYOMIDE "ULMER"

The name "Ulmer" is disclaimed except as it is used as part of this mark. The drawing is lined for red. Applicant claims ownership of Registrations Nos. 352,488 and 306,646.

For Medical Preparation—Namely, an Intramuscular or Subcutaneous Injection of Physostigmine and Homatropine for the Relief of Muscle Spasm.

Claims use since Dec. 18, 1951.

Ser. No. 628,091. Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed Apr. 15, 1952.

FEMANDREN

Applicant claims ownership of Registrations Nos. 331,978 and 378,630.

For Preparation for Sex Hormone Therapy.

Claims use since May 1951.

Ser. No. 633,608. Chemo Puro Manufacturing Corporation, Long Island City, N. Y. Filed Aug. 8, 1952.

CHOLINOPHYLLINE

For Theophylline Salt, Sold in Bulk Form for Processing Into Pharmaceutical Specialties.

Claims use since on or about Feb. 4, 1952.

Ser. No. 636,724. Merck & Co. Inc., Rahway, N. J. Filed Oct. 16, 1952.

PRO-PEN

For Antibiotic and Vitamin Supplements for Animal and Poultry Feed.

Claims use since June 27, 1952.

CLASS 19

VEHICLES

Ser. No. 627,762. Monark Silver King, Inc., Chicago, Ill. Filed Apr. 8, 1952.

Chummy Chariot

For Bicycles.

Claims use since Oct. 17, 1951.

Ser. No. 632,307. New York Rubber Corporation, New York, N. Y. Filed July 9, 1952.

Airubber

Applicant claims ownership of Registrations Nos. 222,911, 223,816, and others.

For Inflatable Boats and Inflatable Floats for Supporting a Plurality of Humans.

Claims use since September 1924 as to the mark "Airubber"; and since 1941 as to the mark in its present form.

Ser. No. 637,437. Glostex Products, Inc., Chicago, Ill. Filed Oct. 31, 1952.

VICEROY

For Seat Covers for Automobiles and Boats.

Claims use since Oct. 16, 1952.

Ser. No. 639,888. Laber Spring & Tire Corp., Oakland, Calif. Filed Dec. 22, 1952.

ROLDAN

For Automobile Springs.

Claims use since Nov. 25, 1952.

Ser. No. 642,066. Gaylord-Shelton, Inc., Chicago, Ill. Filed Mar. 2, 1953.

Gay Lord

For Wire Wheel Discs for Automotive Vehicles.

Claims use since Dec. 4, 1952.

Ser. No. 642,967. Gaylord-Shelton, Inc., Chicago, Ill. Filed Mar. 2, 1953.

Gay Lord

For Wire Wheel Discs for Automotive Vehicles.

Claims use since Dec. 4, 1952.

Ser. No. 643,873. Ford Motor Company, Dearborn, Mich. Filed Feb. 25, 1953.

Victoria

For Motor Cars.

Claims use since Jan. 1, 1930.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 620,509. Kingston Products Corporation, Kokomo, Ind. Filed Oct. 26, 1951. (Sec. 2f.)

KingstoN

For Electric Vacuum Cleaners, Radio Receiving Sets, Battery Chargers, Magnetos, Spark Plugs, Ignition Coils, and Coil Points.

Claims use since 1916.

Ser. No. 621,496. Amplifier Corporation of America, New York, N. Y. Filed Nov. 21, 1951.

Magnemite

Applicant claims ownership of Registrations Nos. 505,579, 525,324, and 525,325.

For Magnetically Operated Recording and Playback Apparatus.

Claims use since May 4, 1951.

Ser. No. 630,399. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

Applicant claims ownership of Registrations Nos. 339,329, 390,078, and 394,883.

For Electrical Apparatus—Namely, Butt Welders, Magnetic Chucks, Combination Rectifiers, and Magnetizers and Demagnetizers for Magnetic Chucks.

Claims use since May 1, 1951, as to the mark shown; and since Mar. 1, 1935 as to the mark "DoAll."

Ser. No. 635,384. John G. Ruckelshaus Labs. Inc., Madison, Wis. Filed Sept. 17, 1952.

VAMISTOR

For Metal Film Precision Resistors for Use in Electrical and Electronic Circuits.

Claims use since about Mar. 14, 1952.

Ser. No. 636,648. Moe Light, Inc., Fort Atkinson, Wis. Filed Oct. 15, 1952.

MOE Light

The word "Moe" and the word "Light" are respectively disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 543,798.

For Electric Lighting Fixtures and Parts Thereof.

Claims use since Oct. 1, 1951.

Ser. No. 636,862. Portable Electric Tools, Inc., Chicago, Ill. Filed Oct. 18, 1952.

PET
POWER TOOLS

No claim is made to the words "Power Tools." Applicant claims ownership of Registration No. 549,623.
For Electrically Operated Apparatus and Tools—Namely, Portable Drills, Saws, Portable Hand Drills and Sanding and Buffing Attachments Therefor Sold in a Kit as a Unit, Racks and Stands Specially Designed for Holding Portable Hand Drills in Operation, and Electric Motors.
Claims use since Sept. 1, 1952.

Ser. No. 638,709. Wellman B. Ford, doing business under the name and style of Ford Steel Products Corporation, of New York, Tarrytown, N. Y. Filed Nov. 28, 1952.

STONELINE

Applicant claims ownership of Registration No. 431,682.
For Electric Water Heaters.
Claims use since July 15, 1941.

Ser. No. 638,872. The Richardson Company, Lockland, Cincinnati, Ohio. Filed Dec. 2, 1952.

IM-PLAST

Applicant claims ownership of Registrations Nos. 509,813 and 544,056.
For Containers for Electric Storage Batteries.
Claims use since Aug. 27, 1952.

Ser. No. 638,967. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Dec. 4, 1952.

SCOTCH

Applicant claims ownership of Registration No. 503,908.
For Reels for Magnetic Sound-Recording Tape.
Claims use since August 1949.

Ser. No. 638,968. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Dec. 4, 1952.

SCOTCH

Applicant claims ownership of Registration No. 503,908.
For Non-Magnetic Tape To Be Attached to an End of, or Spliced in Along the Length of, a Strip of Magnetic Sound-Recording Tape, Whereby Predetermined Periods of Silence May Be Obtained When Said Sound-Recording Tape Is Played in a Machine.
Claims use since August 1949.

CLASS 22
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 602,628. The Plas-Trix Company, Brooklyn, N. Y. Filed Aug. 23, 1950.

PLAS-TRIX

The word "Trix" is disclaimed apart from the mark as shown in the drawing.
For Shifting Block Puzzles.
Claims use since July 1, 1946.

Ser. No. 622,541. Edward J. Herbert, doing business under the firm name and style of Edroy Products Company, New York, N. Y. Filed Dec. 15, 1951.

MAGNI-Fly

The word "Fly" is disclaimed apart from the mark as shown.
For Fishing Boxes Attached to the Garment of the User and Adapted for Carrying Artificial Flies.
Claims use since Oct. 15, 1951.

Ser. No. 628,247. Alexander Doll Company, Inc., New York, N. Y. Filed Apr. 18, 1952.

"Rosebud"

For Dolls.
Claims use since February 1952.

Ser. No. 630,970. Strike Master, Inc., Minneapolis, Minn. Filed June 9, 1952.

NY-STEEL

No claim is made to the word "Steel" apart from the mark as shown on the drawing.
For Fishing Leaders, Formed of a Nylon Covered Seven Strand Steel Wire.
Claims use since on or about Nov. 1, 1950.

Ser. No. 632,646. Beepers Novelty Corp., New York, N. Y. Filed June 11, 1952.

FABRI-TOY

The word "Toy" is disclaimed apart from the mark as shown.
For Toy Constituting a Noise-Maker, Specifically for Insertion Into Children's Garments.
Claims use since May 23, 1952.

Ser. No. 634,760. Martin E. Quyle, Stockton, Calif. Filed Sept. 2, 1952.

QUY-LUR-E

The outline representation of a fish and the word "Lure" are disclaimed apart from the mark as shown.
For Artificial Fish-Lures.
Claims use since Aug. 20, 1952.

Ser. No. 635,195. Floyd Oles, Inc., Tacoma, Wash. Filed Sept. 12, 1952.

pirk

For Artificial Fishing Lures.
Claims use since Aug. 20, 1952.

Ser. No. 635,454. S. L. Allen & Co., Inc., Philadelphia, Pa. Filed Sept. 19, 1952. (Sec. 2f.)

FLEXIBLE FLYER

Applicant claims ownership of Registrations Nos. 42,650, 55,077, and others.
For Sleds and Skis.
Claims use since August 1889.

Ser. No. 636,915. Charles Arliss, doing business as Premier Plastics Co., Brooklyn, N. Y. Filed Oct. 21, 1952.

SQUIRT RAY

The word "Squirt" is disclaimed apart from the mark as shown on the drawing.
For Toy Water Pistol.
Claims use since December 1951.

Ser. No. 638,525. Delira Corporation, Los Angeles, Calif. Filed Nov. 24, 1952.

Wild Bill Hickok and Jingles

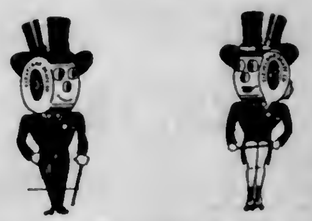
The name "Wild Bill Hickok" is that of a historical character of the Old West; the name "Jingles" being the first name of a fictional character named "Jingle Jones." Neither name is that of any living individual. Applicant claims ownership of Registration No. 557,200.
For Toy Pistols, Toy Tents, Toy Lassos, Toy Badges, Toy Spurs, and Toy Western Towns.
Claims use since Aug. 15, 1952.

Ser. No. 638,902. M. Denkert & Company, Johnstown, N. Y. Filed Dec. 3, 1952.

PRO-MASTER

Applicant disclaims the word "Pro" apart from the mark as shown.
For Baseball Gloves and Mitts, Foot Balls, Basket Balls, and Volley Balls.
Claims use since Nov. 26, 1952.

Ser. No. 639,741. The Cleveland Skate Co., Inc., Cleveland, Ohio. Filed Dec. 19, 1952.



No claim is made to "Cleveland Skate Co." apart from the mark as shown.
For Roller Skates and Parts Thereof.
Claims use since July 7, 1952.

Ser. No. 641,651. The Wild-Q Company, Kansas City, Mo. Filed Feb. 2, 1953.

WILD-Q

For Playing Cards.
Claims use since Jan. 13, 1953.

Ser. No. 641,894. The Associated Merchandising Corporation, New York, N. Y. Filed Feb. 9, 1953.

AMC

No claim is made to the exclusive use of the representation of the golf clubs, except as in the association shown in the drawing.
For Golf Clubs.
Claims use since Feb. 14, 1952.

Ser. No. 641,901. Bee'-Jay Bait Co., North Kansas City, Mo. Filed Feb. 9, 1953.

BEE'-JAY

For Fish Bait Sold in Bulk and Composed of Edible Substance for Fish and Capable of Being Molded Into Pellet Form for Application to the Fish Hook.
Claims use since Aug. 7, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 490,374. The Fellows Gear Shaper Company, Springfield, Vt. Original filed, act of 1905, Oct. 23, 1945; amended to application under act of 1946, Principal Register, Feb. 20, 1951. (Sec. 2f.)



For Gear Cutting Machines, Gear Lapping Machines, Gear Burnishing Machines, Gear Shaving Machines, and Cutters for Use on Such Machines.
Claims use since on or about June 1, 1945.

Ser. No. 515,300. Englishtown Cutlery, Ltd., New York, N. Y. Original filed, act of 1905, Jan. 6, 1947; amended to application under act of 1946, Principal Register, Mar. 10, 1952. (Sec. 2f.)

WHIZZ-CUT

The word "Cut" is disclaimed apart from the mark as shown.
For Flatware of Base Metal—Namely, Knives, Forks, and Spoons.
Claims use since Nov. 15, 1946.

Ser. No. 559,211. Carter Carburetor Corporation, St. Louis, Mo. Filed June 15, 1948.

POWER CENTER



Exclusive use of the word "Power" and the representation of the goods, including wording thereon, except the word "Climatic," apart from the mark and applicant's common law rights therein, is disclaimed. Lining on the drawing represents the color black, but coloring is not essential. Applicant claims ownership of Registration No. 401,839.
For Carburetors and Fuel Pumps and Parts Thereof.
Claims use since November 1948.

Ser. No. 585,534. King-Seeley Corporation, Ann Arbor, Mich. Filed Sept. 29, 1949. (Sec. 2f.)

VARI-SPEED

For Governors for Internal Combustion Engines.
Claims use since in the month of September 1936.

Ser. No. 606,529. Honan-Crane Corporation, Lebanon, Ind. Filed Nov. 17, 1950.

Flo-Feed

For Skid Supported Hopper Equipped With a Tiltable Mechanism for Unloading Machine Parts From Containers for Ready Accessibility to Workmen.
Claims use since Oct. 20, 1950.

Ser. No. 606,945. Joy Manufacturing Company, Pittsburgh, Pa. Filed Nov. 25, 1950.

JOY

For Air Motors—Rotary; Carpullers; Compressors: Portable, Semiportable, Stationary, and Mine Car; Continuous Miners—Namely, Apparatus for Disintegrating Mineral Veins and Delivering to a Transport System the Disintegrated Material; Conveyors: Belt, Chain, and Reciprocatory; Belt Conveyor Drives; Shaker Conveyor Drives; Conveyor Feeders: Chain, Reciprocating Plate, and Shaker Type; Drills—Rotary: Auger, Blast Hole, Core, Oil Field, and for Stripping Operations; Drills—Percussive: Hand Held, Stoping, Drifting, Wagon Mounted, and Jumbo Mounted; Jumbo Mountings and Wagon Mountings for Drills; Hoists; Kerf Cutting Machines; Bugdosters—a Mechanical Apparatus Cooperatively Associated With the Cutting Mechanism of Kerf-Cutting Machines—for the Removal of Cuttings, as They Are Produced by the Cutting Operations, From Immediate Proximity to the Cutting Chain; Loading Machines: Gathering Arm Type, Shovel, and Scraper; Pavement Cutters; Postpullers; Sheaves; and Timber Setters.
Claims use since July 7, 1924.

Ser. No. 609,857. Hank Sign & Display Co., Adams, Mass. Filed Feb. 9, 1951.

Screen Printer

Exclusive rights to the words "Screen" and "Printer" apart from the present mark as shown are hereby disclaimed without waiving common law rights therein.
For Silk Screen Type Printing Machines.
Claims use since Sept. 1, 1945.

Ser. No. 611,899. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Mar. 28, 1951.

JACK PUNCH

Applicant hereby disclaims the use of the word "Punch" apart from the mark as shown.
For Pneumatically-Operated Punches for Reboring Access Holes in Rock Drilling Bits.
Claims use since February 1941.

Ser. No. 612,321. The Grav-I-Flo Corporation, Sturgis, Mich. Filed Apr. 6, 1951.

GRAV-I-FLO

The term "Flo" is disclaimed apart from the mark as shown.
For Tumbling Machines and Parts Thereof.
Claims use since Jan. 15, 1940.

Ser. No. 613,706. Kingsley A. Doutt, Detroit, Mich. Filed May 10, 1951.

HYDRA-FLASH

No claim is made to the word "Flash" apart from the mark as shown.
For Hydraulically Operated Control Unit Comprising Motors, Valves, Switches, and Cylinders for Controlling the Operation of a Flash Welding Machine.
Claims use since Oct. 12, 1950.

Ser. No. 620,776. Estwing Manufacturing Company, Incorporated, Rockford, Ill. Filed Nov. 1, 1951.



The mark comprises two closely spaced narrow white bands appearing near each end of the grip, no claim being made to the representation of the goods apart from the mark as shown. The shading appearing on the remainder of the grip does not represent any particular color.
For Hammers and Hatchets.
Claims use since on or about Feb. 1, 1926.

Ser. No. 620,900. G. G. Sanders and Norris Goodwin, joint trustees of Norris Goodwin, G. G. Sanders and Grace B. Sanders, San Francisco, Calif. Filed Nov. 5, 1951.

"CENTRICLONE"

For Centrifugal Classifiers and Separators for Classifying Solids Suspended in Liquids.
Claims use since Nov. 14, 1950.

Ser. No. 621,082. N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands. Filed Nov. 9, 1951.



Applicant claims ownership of Dutch Registration No. 107,521, dated Jan. 11, 1951.
For Machine Tools—Namely, Lathes, Capstan Lathes, Turret Lathes, Second-Operation Lathes, Tool Grinders, Cutter Grinders, Shapers, Drilling Machines, Milling Machines, and Parallel Vises.

Ser. No. 622,824. Paul E. Hawkinson Company, Minneapolis, Minn. Filed Dec. 26, 1951. (Sec. 2f.)

HAWKINSON

Applicant claims ownership of Registrations Nos. 502,432, 503,068, 503,409, and 522,427.
For Tire Buffing Machines and Rims Therefor for Truing Automotive Tires, and Tire Retreading Molds and Presses Used in Conjonction Therewith.
Claims use since on or about June 15, 1939.

Ser. No. 626,525. The Moto-Mower Company, Detroit, Mich. Filed Mar. 15, 1952.

ROTO-MOWER

The word "Mower" is disclaimed apart from the mark as shown in the drawing.
For Lawnmowers.
Claims use since on or about Mar. 8, 1950.

Ser. No. 628,559. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



No claim is made to the representation of the needle, thread, thread spool, or sewing machine shuttle apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 12,396, 20,065, and others.
For Family and Commercial Sewing Machines; Darning, Embroidery, Article Fastening, Hemstitching, Buttonhole Making, Eyeletting, and Ornamental Stitching Machines; Bobbin Winding, Crimping, Strip Cutting, Pressing, Strip Winding, Thread Drawing, Trimming, Pleating and Grinding Machines; Machine Sewing Needles; Sewing Machine Attachments—Namely, Binders, Gatherers, Hemmers, Rufflers, Quilters, Tuckers, Edge-Stitchers, Multiple Slotted Binders, and Parts Therefor; and Seam Rippers in the Form Having a Thread-Severing Blade; Sewing Machine Stands; and Fitted Canvas and Bent Wooden Covers, and Portable Carrying Cases for Sewing Machines.
Claims use since 1865.

Ser. No. 628,819. Lilliston Implement Company, Albany, Ga. Filed Apr. 28, 1952.

ROTO-SPEED

No claim is made to "Speed" apart from the mark as shown.
For Mowing Machines of the Rotary Cutter Type.
Claims use since on or about May 1, 1950.

Ser. No. 629,213. Nicholson File Company, Providence, R. I. Filed May 5, 1952.

4 IN HAND

For Files and Rasps.
Claims use since Apr. 8, 1952.

Ser. No. 632,813. The Fuller Brush Company, Hartford, Conn. Filed June 17, 1952. (Sec. 2f.)

Fuller

Applicant claims ownership of Registration No. 528,899.
For Carpet Sweepers.
Claims use since on or about Apr. 21, 1947.

Ser. No. 632,828. The Custanite Corporation, Larchmont, N. Y. Filed July 21, 1952.

CUSTANITE
FLEX-FLO

For Soft Hammers Adapted for Use in Applications Wherein It Is Necessary That the Hammer Be Softer Than the Work.
Claims use since July 3, 1952.

Ser. No. 634,091. Roto Bag Machine Corporation, New York, N. Y. Filed Sept. 8, 1952.

ROTO BAG

For the purpose of this registration, applicant disclaims the word "Bag" apart from the mark as shown.
For Bag Making Machinery and Perforating Machines and Parts Therefor for Making Paper Foil and Plastic Bags and Like Articles.
Claims use since in the early part of 1945.

Ser. No. 635,667. Warner-Hudnut, Inc., New York, N. Y. Filed Sept. 23, 1952.

REELSHAV

For Razors of the Type Including a Cartridge Containing an Extended Length of Steel Ribbon Sharpened on One Edge.
Claims use since Aug. 11, 1952.

Ser. No. 635,994. Burgess-Norton Mfg. Co., Geneva, Ill. Filed Oct. 1, 1952.

B-N

Applicant claims ownership of Registration No. 518,081.
For Piston Pins and Ball Bearings.
Claims use since April 1919.

Ser. No. 636,497. Revolvator Company, North Bergen, N. J. Filed Oct. 10, 1952.

REVOLVATOR

Applicant claims ownership of Registration No. 84,669.
For Portable Tiering Machines and Lift Trucks.
Claims use since Oct. 3, 1910.

Ser. No. 639,025. Dispensers, Inc., Los Angeles, Calif. Filed Dec. 5, 1952.

dipcut

Applicant claims ownership of Registration No. 373,123.
For Kitchen Scoop for Serving Food.
Claims use since Nov. 11, 1952.

Ser. No. 639,717. R P M Manufacturing Company, Lamar, Mo. Filed Dec. 18, 1952.

MARAUDER

For Power Lawn Mowers.
Claims use since Sept. 10, 1952.

Ser. No. 641,185. Harbil Manufacturing Co., Chicago, Ill. Filed Jan. 23, 1953.

HARBIL

For Paint Mixers of the Shaker Type.
Claims use since Feb. 22, 1948.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 605,952. Gevaert Photo-Producten N. V., Mortsel, Belgium. Filed Nov. 6, 1950.

GEVARTO

Applicant claims ownership of Belgian Registration No. 8,453, dated Apr. 3, 1931.
For Light Sensitive Materials for Use in Photography—Namely, Sensitized Photographic Papers, Sensitized Photographic Plates, Sensitized Photographic, Cinematographic and X-Ray Films.

Ser. No. 610,685. Heat-Timer Corporation, New York, N. Y. Filed Mar. 1, 1951.

SMOKE-EYE

Applicant disclaims the term "Smoke."
For Electronic Smoke Detecting and Burner Control Apparatus for Heating and Power Plants, Said Apparatus Incorporating a Photo-Electric Cell and Automatic Timing Mechanism Which Functions To Prevent Excessive Smoke Conditions.
Claims use since Dec. 1, 1950.

Ser. No. 619,002. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Sept. 20, 1951. (Sec. 2f as to "Allis-Chalmers.")

A-C
ALLIS-CHALMERS

Applicant claims ownership of Registrations Nos. 14,423, 533,862, and others.
For Electrical Conductivity Meters for Examining the Purity of Condensed Steam Samples, Electrical Apparatus for Detecting the Presence of Metal Particles in Electrically Nonconductive Materials, and Parts Thereof.
Claims use since May 13, 1949, on the mark as shown; and since Nov. 1, 1903, on the words "Allis-Chalmers."

Ser. No. 626,837. Vitapix Corporation, Dover, Del., and Hollywood, Calif. Filed Mar. 21, 1952.

VITAPIX

For Motion Picture Films Which Are Distributed for Use on Television.
Claims use since Feb. 27, 1952.

Ser. No. 628,179. Magnaflux Corporation, Chicago, Ill. Filed Feb. 14, 1952.

STATIFLUX

For Apparatus Consisting of an Air Compressor and a Powder Spray Gun With Dielectric Nozzle for Electrostatically Charging the Powder, for Locating Cracks, Leaks or Other Defects in Fired Ceramics, Porcelain Enamels, Glass Glazed China, Plastics, and Other Non-Conducting Materials.
Claims use since March 1948.

Ser. No. 629,139. Zylite Products Co., Inc., New York, N. Y. Filed May 2, 1952.

TOUCH O' LACE

The word "Lace" is disclaimed apart from the mark.
For Eyeglass Frames.
Claims use since Jan. 8, 1952.

Ser. No. 635,505. Photographic Importing & Distributing Corporation, Valley Stream, N. Y. Filed Sept. 12, 1952.

Sun

For Lenses and the Carrying Cases Thereof.
Claims use since September 1951.

Ser. No. 635,506. Photographic Importing & Distributing Corporation, Valley Stream, N. Y. Filed Sept. 12, 1952.

BIOFLEX

For Cameras and the Carrying Cases Thereof; Lenses and the Carrying Cases Thereof.
Claims use since September 1951.

Ser. No. 635,566. John Robert Powers Products Co., Inc., Wilmington, Del., and New York, N. Y. Filed Aug. 15, 1952.

COSMETISCOPE

For Apparatus in the Nature of a Scope Containing Means for Providing a Color Standard and a Color Sample and Used for Accurate Color Comparison of Cosmetics.
Claims use since Jan. 13, 1948.

Ser. No. 638,916. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONARTTE

For Bridges for Ophthalmic Mountings.
Claims use since on or about Apr. 25, 1933.

Ser. No. 638,917. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONDAY

For Bridges for Ophthalmic Mountings.
Claims use since on or about Apr. 25, 1933.

Ser. No. 638,918. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONISANCE

For Bridges for Ophthalmic Mountings.
Claims use since on or about Apr. 25, 1933.

Ser. No. 638,919. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONSILIENT

For Bridges for Ophthalmic Mountings.
Claims use since on or about Feb. 14, 1933.

Ser. No. 638,920. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONLANE

For Bridges for Ophthalmic Mountings.
Claims use since on or about May 14, 1938.

Ser. No. 638,921. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONVAIL

For Bridges for Ophthalmic Mountings.
Claims use since on or about Dec. 20, 1933.

Ser. No. 638,922. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 3, 1952.

RONWINNE

For Bridges for Ophthalmic Mountings.
Claims use since on or about Aug. 30, 1937.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 638,720. S. H. Kress and Company, New York, N. Y. Filed Nov. 28, 1952.

Betty-Ann

Applicant claims ownership of Registration No. 299,781.
For Floor Mops.
Claims use since Oct. 11, 1938; and since Mar. 15, 1932, in a different form.

Ser. No. 643,007. United Brush Manufactories, New York, N. Y. Filed Mar. 2, 1953.

BEAUX ARTS

Applicant claims ownership of Registration No. 177,988.
For Artists' Paint Brushes.
Claims use since January 1914.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 615,829. The Haeger Potteries, Inc., Dundee, Ill. Filed June 28, 1951. (Sec. 2f as to "Haeger.")

Royal Haeger

Applicant claims ownership of Registrations Nos. 402,031 and 402,895.
For Various Ceramic Products—Namely, Vases, Bowls, Fish Bowls, Pots, Flower Pots, Console Sets, Novelty Plant Holders, Novelty Flower Holders, and Mugs.
Claims use since in the month of August 1939, as to the mark shown; and since in the year 1914, as to the surname "Haeger."

Ser. No. 633,573. Doulton & Co. Limited, Burslem and London, England. Filed Aug. 7, 1952. (Sec. 2f.)

Royal Doulton

Applicant claims ownership of Registrations Nos. 50,410, 50,411, and others.
For Earthenware, Porcelain, or Bone China Dinnerware, Decorative Plates, Vases, and Toby Jugs.
Claims use since Dec. 3, 1901; use in commerce among the several States since Dec. 3, 1901; and as to the mark shown since Apr. 1, 1951; and use in commerce among the several States since Apr. 1, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 635,369. The Marley Company, Inc., Kansas City, Mo. Filed Sept. 17, 1952.

MARLEY

Applicant claims ownership of Registration No. 532,665.
For Liquid Cooling Towers and Parts Thereof.
Claims use since Aug. 20, 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 577,095. Boyd-Britton, Incorporated, Chicago, Ill. Filed Apr. 14, 1949. (Sec. 2f.)

Storagewall

For Partition Forming Storage Cabinets.
Claims use since October 1945.

Ser. No. 590,251. Arlington Window Shade Corporation, New York, N. Y. Filed Jan. 3, 1950.

Impurviated

For Metal Venetian Blinds.
Claims use since Nov. 15, 1948.

Ser. No. 623,687. Stationers' Guild Corporation of America, Philadelphia, Pa. Filed Jan. 16, 1952.

Guild

Applicant claims ownership of Registration No. 159,364.
For Filing Trays, Stands for Filing Trays, and Filing Cabinets.
Claims use since Feb. 17, 1922.

Ser. No. 630,395. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

Applicant claims ownership of Registrations Nos. 339,329, 390,078, and 394,883.
For Supply Cabinets.
Claims use since May 1, 1951, as to the mark shown; and since Mar. 1, 1935, as to "DoAll."

Ser. No. 631,604. The Columbia Mills, Inc., Syracuse, N. Y. Filed June 23, 1952.

GILT EDGE

For Window Shade Rollers.
Claims use since Nov. 1, 1951.

Ser. No. 635,210. Wright and Company, Incorporated, Worcester, Mass. Filed Sept. 12, 1952.

UNITUB

For Card Index File Cabinet.
Claims use since Sept. 4, 1952.

Ser. No. 635,339. B. Altman & Co., New York, N. Y. Filed Sept. 17, 1952.

Deerfield

For Dining Room Furniture—Namely, Tables, Chairs, Buffets, Servers, China Closets, and Hutches; and Bedroom Furniture—Namely, Beds, Bed Canopies, Chair Beds, Night Tables, Lamp Tables, Dressers, Chests, Dresser Mirrors, Wall Mirrors, and Chairs.
Claims use since Apr. 6, 1952.

Ser. No. 635,784. Parkway Furniture Manufacturing Company, Lawrence, Mass. Filed Sept. 25, 1952.



The representation of the goods shown as part of the mark is disclaimed. The stippling in the drawing is for shading purposes only.
For Couches, Loveseats, and Beds.
Claims use since Feb. 1, 1952.

Ser. No. 635,934. Roy L. Smith, doing business as Smith's Furniture Company, Corinth, Miss. Filed Sept. 29, 1952.

AMERICAN BONNIE

Applicant disclaims any rights in and to the word "American."
For Mattresses.
Claims use since Apr. 1, 1952.

Ser. No. 636,608. Re-Ly-On Products Company, Pittsburgh, Pa. Filed Oct. 14, 1952.

SpineSaver

For Inner Spring Mattresses.
Claims use since on or about July 3, 1952.

Ser. No. 637,297. Bankers Securities Corporation, doing business as Snellenburgs, Philadelphia, Pa. Filed Oct. 29, 1952.

FIRM-EZE

The word "Firm" is disclaimed apart from the trademark as shown.
For Mattresses, Box Springs, Day Beds, Hollywood Beds, Sofa Beds, and Studio Couches.
Claims use since Oct. 7, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 564,967. S. F. Appliances, Limited, Ridgefield, N. J. Filed Sept. 10, 1948. (Sec. 2f.)

RADIANT

For Portable Lanterns and Lamps, Cooking and Heating Stoves, Water Heaters, Industrial Burners and Stoves, Ovens, and Camp Stoves, Adapted To Be Operated by Gasolene, Kerosene, or Oil Fuel.
Claims use since on or about May 15, 1933.

Ser. No. 618,787. Earl W. Cornwall, doing business as Cornwall & Co., Euclid, Ohio. Filed Sept. 14, 1951.

X-HALER

For Moisture Vent Tubes.
Claims use since Aug. 4, 1951.

Ser. No. 627,884. Indola N. V., Voorburg, Netherlands. Filed Apr. 10, 1952.

INDOLA

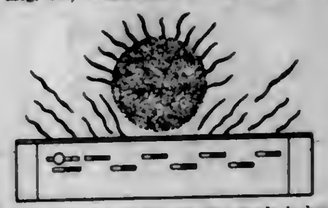
Applicant claims ownership of Dutch Registration No. 107,861, dated Feb. 6, 1951.
For Ventilating Fans, or Blowers.

Ser. No. 635,127. Raymond R. Dupler, Toledo, Ohio. Filed Sept. 11, 1952.

Glamor-Heat

For Hot Air Furnaces Simulating a Fireplace in Appearance.
Claims use since Aug. 18, 1952.

Ser. No. 637,094. Paul J. Thompson, doing business as Patco Mfg. Co., Philadelphia, Pa. Filed Oct. 23, 1952.



The pictorial representation of the goods is hereby disclaimed apart from the mark as shown.
For Hot Air Conduits and Registers.
Claims use since Aug. 13, 1952.

CLASS 37
PAPER AND STATIONERY

Ser. No. 619,358. Pollock Paper Corporation, Dallas, Tex. Filed Sept. 28, 1951.

MIRRO-LITE

The word "Lite" is hereby disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 386,656.
For Waxed Paper, Transparent Paper, and Wrapping Paper.
Claims use since Nov. 15, 1949.

Ser. No. 627,669. Bowater Paper Company, Inc., New York, N. Y. Filed Apr. 7, 1952.



The lining in the drawing is for shading only.
For Newsprint Paper, Strawboard, One Side Bleached Woodpulp Board, Strawpaper, Chipboard, Correspondence Envelopes, and Note Pads.
Claims use since June 23, 1951.

Ser. No. 635,451. Wisconsin Tissue Mills, Menasha, Wis. Filed Sept. 18, 1952.

GARDEN

For Toilet Tissue, Paper Napkins, Paper Tray Covers, and Paper Tablecloths.
Claims use since 1933.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 586,643. Locke Incorporated, Baltimore, Md., now by merger General Electric Company, a corporation of New York. Filed Oct. 21, 1949. (Sec. 2f as to "Locke.")

LOCKE
RM
HANDYLOG

The drawing is lined for red but no claim is made to this particular color. Applicant claims ownership of Registrations Nos. 167,606, 386,992, and 393,782.
For Trade Catalog Published From Time to Time.
Claims use since Mar. 25, 1949, on the mark as shown; and since on or about Jan. 1, 1925, as to "Locke."

Ser. No. 623,294. American Colortype Company, Chicago, Ill. Filed Jan. 8, 1952.

Living with
Flowers

The word "Flowers" is disclaimed apart from the entire mark, as shown.
For Periodical Publication.
Claims use since Dec. 21, 1951.

Ser. No. 626,561. The Chek-Chart Corporation, Chicago, Ill. Filed Mar. 17, 1952.



For Publications and Prints Comprising Instruction Booklets, Bulletins, and Compilations of Information and Promotional Advertising Material Generally Pertaining to the Lubrication of Automotive Vehicles, Aircraft, and Machinery Having Moving Parts Requiring Lubrication, Published at Intervals.
Claims use since June 1, 1951.

Ser. No. 627,443. Lee F. Heacock, Jr., doing business as Selector Company, New York, N. Y., assignor to Selector Production Corporation, Yonkers, N. Y., a corporation of New York. Filed Apr. 2, 1952.

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For Business Directory Inserts.
Claims use since Aug. 1, 1951.

Ser. No. 627,444. Lee F. Hearock, Jr., doing business as Selector Company, New York, N. Y., assignor to Selector Production Corporation, Yonkers, N. Y., a corporation of New York. Filed Apr. 2, 1952.



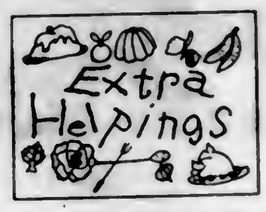
No exclusive right to the words "Quality" and "Service" is claimed apart from the mark as shown.
For Business Directory Inserts.
Claims use since Mar. 14, 1952.

Ser. No. 631,569. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.

Polaroid

Applicant claims ownership of Registrations Nos. 337,404, 388,047, and others.
For Intermittent Photographic Instruction Manuals and Publications; and Photographic Prints and Enlargements.
Claims use since Nov. 29, 1948.

Ser. No. 632,159. Dudley, Anderson and Yutzy, New York, N. Y. Filed July 5, 1952.



For Newspaper Column.
Claims use since Mar. 15, 1952.

Ser. No. 635,731. The John C. Winston Company, Philadelphia, Pa. Filed Sept. 24, 1952.



For Books Issued in a Series.
Claims use since Sept. 22, 1952.

Ser. No. 637,735. Tribune Company, sometimes identified merely as the Chicago Tribune, Chicago, Ill. Filed Nov. 6, 1952.

By the Way

For Newspaper Column.
Claims use since Oct. 21, 1952.

Ser. No. 638,423. Laclede-Christy Company, St. Louis, Mo. Filed Nov. 21, 1952.

TRIANGLE LACLEDE-CHRISTY COMPANY *Topics*

The use of the designations "Christy" and "Topics" are disclaimed apart from the mark as shown.
For Technical Publication.
Claims use since Apr. 30, 1952.

Ser. No. 638,437. Pocket Books, Inc., New York, N. Y. Filed Nov. 21, 1952.

CARDINAL

Applicant claims ownership of Registration No. 566,090.
For Books.
Claims use since July 23, 1951.

Ser. No. 638,562. Ziff-Davis Publishing Company, New York, N. Y. Filed Nov. 24, 1952. (Sec. 2f.)

RADIO-ELECTRONIC
Engineering

Applicant claims ownership of Registration No. 567,224.
For Section of a Magazine Also Produced as a Separate Publication.
Claims use since Jan. 14, 1944.

Ser. No. 639,554. Close-Up, Inc., New York, N. Y., and St. Louis, Mo. Filed Dec. 16, 1952.

KATY
KEENE

The name "Katy Keene" is fictitious. No claim is made to the word "Comics" apart from the mark as shown.
For Magazine Issued Bi-Monthly.
Claims use since Jan. 30, 1950.

Ser. No. 639,638. Hercules Powder Company, Wilmington, Del. Filed Dec. 17, 1952. (Sec. 2f.)

cellulosic
plastics

For Magazine, Issued Three Times Each Year, for Readers Who Are Interested in Plastics Made From Cellulose.
Claims use since Mar. 5, 1946.

Ser. No. 639,754. Grant Publishing Corporation, Chicago, Ill. Filed Dec. 19, 1952.



DEER-CREST

For Greeting and Christmas Cards.
Claims use since June 1, 1939.

Ser. No. 640,104. Cowles Magazines, Inc., Des Moines, Iowa, and New York, N. Y. Filed Dec. 29, 1952.

OFF CAMERA

For Section in a Periodical Publication.
Claims use since Oct. 16, 1952.

Ser. No. 640,212. The Hearst Corporation, New York, N. Y. Filed Dec. 31, 1952.

Only Human

Applicant claims ownership of Registration No. 364,255.
For Newspaper Section or Column.
Claims use since on or about Apr. 20, 1942.

CLASS 39

CLOTHING

Ser. No. 551,315. S and B Millinery Company, Toledo, Ohio. Filed Mar. 5, 1948.



For Women's Millinery—Namely, Hats and Bonnets.
Claims use since Jan. 15, 1948.

Ser. No. 597,046. Dominion Corset Company, Limited, Quebec, Quebec, Canada. Filed Apr. 5, 1950. (Sec. 2f.)

"BREATHING WAIST"

Applicant claims ownership of Canadian Registration No. 12,084, dated Mar. 3, 1939.
For Corsets, Girdles, Brassières, and Foundation Garments.
Claims use since Sept. 1, 1938; and since May 31, 1939, in commerce between Canada and the United States.

Ser. No. 601,997. The Nolde and Horst Company, Reading, Pa. Filed Aug. 9, 1950. (Sec. 2f as to "Westminster.")

Westminster



Applicant claims ownership of Registration No. 521,160.
For Men's Slippers in the Form of Slipper Socks Comprising a Fabric Top and Solid Composition Sole.
Claims use since June 9, 1950, as to the complete mark shown; and since June 1917, as to "Westminster."

Ser. No. 602,465. 'Namm's, Inc., Brooklyn, N. Y., now by change of name, Namm-Loeser's Inc. Filed Aug. 19, 1950. (Sec. 2f.)

TAILORCRAFT

For Men's and Boys' Overcoats, Coats, Vests, Trousers, and Raincoats.
Claims use since Apr. 1, 1924.

Ser. No. 602,570. Rosedale Knitting Company, Reading, Pa. Filed Aug. 22, 1950.

CREPELON

For Ladies' Crepe Hosiery.
Claims use since Apr. 28, 1949.

Ser. No. 605,554. I. B. Kleinert Rubber Company, New York, N. Y. Filed Oct. 28, 1950.



The mark consists of a three dimensional doll placed on display in association with the goods. The representation of the baby in the doll figurine shown in the drawing is fanciful. For purposes of this registration only the representation of infant pants appearing in the mark is disclaimed apart from the mark as shown.
For Infants' Wear—Namely, Diapers, Diaper Covers, and Pants, the Latter Two Items Being Made of Fabric, or of Rubber, Rubberized, or Coated Fabrics.
Claims use since Aug. 29, 1950.

Ser. No. 617,762. M. K. M. Hosiery Mills, Inc., Boston, Mass. Filed Aug. 16, 1951.



RING CLEAR

The representation of the hosiery covered legs forms the letter "R." The descriptive words "Ring Clear" are disclaimed apart from the mark shown. The representation of a pair of hosiery-covered legs is disclaimed apart from the mark shown, except in so far as the legs are shaped to form the letter "R."
Applicant claims ownership of Registration No. 324,633.
For Women's Hosiery.
Claims use since June 15, 1951.

Ser. No. 622,958. Best Wear Products, Inc., New York, N. Y., assignee of Rubin-Meltzer Company. Filed Dec. 28, 1951. (Sec. 2f.)

BESTWEAR

Applicant claims ownership of Registration No. 338,405.
For Men's, Women's, and Children's Underwear, Pajamas, and Sweaters.
Claims use since Mar. 15, 1934.

Ser. No. 624,632. Chippewa Shoe Co., Chippewa Falls, Wis. Filed Feb. 7, 1952.



Genuine CHIPPEWA SHOES

The words "Genuine" and "Shoes" are disclaimed apart from the mark as shown. The pictorial representation of an Indian is fanciful. Applicant claims ownership of Registrations Nos. 172,111 and 430,652.
For Leather Boots and Shoes for Men, Women, and Children.
Claims use since Nov. 28, 1947, as shown; the word "Chippewa" was first used about 1901.

Ser. No. 626,626. Robert Hall Clothes, Inc., New York, N. Y. Filed Mar. 18, 1952.

PARADER

For Men's Suits.
Claims use since Feb. 25, 1952.

Ser. No. 626,629. Leis Undergarment Co., Inc., New York, N. Y. Filed Mar. 18, 1952.

GROSLIP

For Slips for Misses and Young Girls.
Claims use since Apr. 22, 1950.

Ser. No. 626,641. Royal Robes, Inc., New York, N. Y. Filed Mar. 18, 1952.

Royal Robes

The word "Robes" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 377,453 and 536,180.
For Women's and Misses' Robes—Namely, Bath Robes, Beach Robes, Negligees, Brunch Coats, Housecoats, Leisure Robes, and Hostess Coats.
Claims use since Feb. 4, 1952.

Ser. No. 628,464. Boy-Crest Clothes, Inc., New York, N. Y. Filed Apr. 22, 1952.

TEN-O-MATIC

For Boys' Suits and Slacks.
Claims use since Jan. 28, 1952.

Ser. No. 629,584. Riegel Textile Corporation, New York, N. Y. Filed May 12, 1952. (Sec. 2f.)

Riegel

Applicant claims ownership of Registration No. 294,859.
For Diapers and Work Gloves Made of Fabric, Coated Fabric, a Combination of Fabric and Coated Fabric, or a Combination of Fabric and Leather.
Claims use since December 1931.

Ser. No. 632,326. Portia Style Industries, Inc., Chicago, Ill. Filed July 9, 1952.

THE TOSS-UP

For Men's Hats.
Claims use since June 1952.

Ser. No. 633,509. Renart Sportswear Corporation, New York, N. Y. Filed Aug. 5, 1952.

"WONDAMERE"

The drawing is lined to indicate the color red.
For Ladies' Sweaters.
Claims use since June 4, 1951.

Ser. No. 633,772. Kaydette Mfg. Corp., New York, N. Y. Filed Aug. 12, 1952.

Kaydette

For Household Aprons, Garment Pockets, and Children's Sun Suits.
Claims use since Mar. 1940.

Ser. No. 633,884. Morris L. Slimovitz, doing business as Morris Manufacturing Company, Newbern, Tenn. Filed Aug. 13, 1952.

"RED THUMB"

For Work Gloves Made of Fabric, Leather, and Combinations Thereof.
Claims use since Oct. 15, 1951.

Ser. No. 633,890. Tiki Originals, New York, N. Y. Filed Aug. 13, 1952.

Tiki Originals

The descriptive word "Originals" is disclaimed apart from the trade-mark as shown in the drawing.
For Women's and Girls' Hats.
Claims use since June 23, 1952.

Ser. No. 636,338. Bronzini, Ltd., New York, N. Y. Filed Oct. 8, 1952.



For Men's Neckties, Handkerchiefs, Gloves Made of Leather, Fabric or Combinations Thereof, Undershorts, Pajamas, Socks, Outer Shirts, Sweaters and Blouses, Vests, Scarves, Belts and Braces, Robes, Overcoats, and Jackets, Swim Shorts, Dickies, Aprons, Slippers, and Shoes.
Claims use since Mar. 1, 1947.

Ser. No. 636,981. Hat Corporation of America, Norwalk, Conn. Filed Oct. 22, 1952. (Sec. 2f as to "Cavanagh.")

Cavanagh Edge

The exclusive right to the use of the word "Edge" is disclaimed per se. Applicant claims ownership of Registrations Nos. 267,193, 270,725, and others.

For Hats for Men.

Claims use since Oct. 1, 1952, as to the mark shown, and since February 1913 as to "Cavanagh."

Ser. No. 637,287. Piedmont Shirt Company, Greenville, S. C. Filed Oct. 28, 1952.

Back-to-Cool

"Cool" is herewith disclaimed apart from the mark as shown.

For Men's and Boys' Shirts, Undershirts, Under-Shorts, and Pajamas.

Claims use since Oct. 15, 1952.

Ser. No. 637,361. Cisco-California, Inc., Los Angeles, Calif. Filed Oct. 30, 1952. (Sec. 2f.)

McKEEVER'S

For Ladies', Men's, and Boys' Swimsuits and Swimming Trunks.

Claims use since June 30, 1931.

Ser. No. 637,733. Top Mode Manufacturing Co., Dauphin, Pa. Filed Nov. 6, 1952.

Top Mode FROCKS TM

The wording "Top Mode Frocks" is disclaimed apart from the mark as shown in the drawing.

For Misses' and Women's Dresses.

Claims use since Apr. 1, 1936.

Ser. No. 637,855. Allied Stores Corporation, New York, N. Y. Filed Nov. 10, 1952.

Alice Stowe

The name "Alice Stowe" is fanciful.

For Women's, Misses', and Juniors' Dresses.

Claims use since Sept. 30, 1952.

Ser. No. 637,970. Gertrude E. Wixson, doing business as Wix Manufacturing Co., Kansas City, Mo. Filed Nov. 12, 1952.

Wix

For Combined Shower and Shampoo Caps.

Claims use since Oct. 30, 1952.

Ser. No. 637,997. Julius Kayser & Co., New York, N. Y. Filed Nov. 13, 1952.

NYLOSTRIPE

For Gloves Made of Fabric.

Claims use since Oct. 24, 1952.

Ser. No. 638,239. Bettermade Garment Company, Los Angeles, Calif. Filed Nov. 18, 1952.

Cotton Topics

The word "Cotton" and the representation of bale of cotton are disclaimed apart from the mark as shown in the drawing.

For Women's Wearing Apparel in Misses', Ladies', Juniors', and Half Sizes—Namely, Dresses, Blouses, Shorts, Slacks, Jackets, Shirts, and Pedal Pushers.

Claims use since Sept. 1, 1952.

Ser. No. 638,265. Manchester Knitted Fashions, Inc., Manchester, N. H. Filed Nov. 18, 1952.

Matey's

The picture of the two children appearing on the drawing are fanciful. The lining appearing on the drawing is merely a reproduction of lining appearing on the specimens. Applicant claims ownership of Registrations Nos. 411,127, 438,832, and others.

For Men's, Women's, Boys', and Girls' Knitted and Woven Outerwear—Namely, T Shirts, Cardigans, Suits, Shorts, Sweaters, and Pajamas.

Claims use since Apr. 28, 1952.

Ser. No. 638,315. Abe A. Rosenberg, New York, N. Y. Filed Nov. 19, 1952.

Muffy

For Ear Muffs for Men, Women, and Children.

Claims use since Aug. 25, 1952.

Ser. No. 638,399. U. B. Buchanan, New York, N. Y. Filed Nov. 21, 1952.

one on the house

For Men's, Women's, and Children's Hosiery.

Claims use since Sept. 25, 1952.

Ser. No. 638,401. Chapman & Sons Hosiery Company, Shreveport, La. Filed Nov. 21, 1952.

CADDA

For Men's, Women's, and Children's Hosiery.

Claims use since July 22, 1952.

Ser. No. 638,754. Joseph Clavin & Co. Inc., New York, N. Y. Filed Nov. 29, 1952.

the Hy Look

For Men's Overcoats, Sport Jackets, and Men's Suits.

Claims use since Nov. 1, 1950.

Ser. No. 638,904. Geisha Robe Co. Inc., New York, N. Y. Filed Dec. 3, 1952.

Geisha Girl

For Girls' and Misses' Sleeping and Lounging Pajamas, Bath Robes, Lounging Robes, Beach Robes, and Negligees.

Claims use since Feb. 2, 1942.

Ser. No. 639,117. Jerka Socks, Inc., Cincinnati, Ohio. Filed Dec. 6, 1952.

VERSALON

For Men's, Women's, and Children's Hosiery.

Claims use since Nov. 28, 1952.

Ser. No. 639,140. Mojud Hosiery Co. Inc., Long Island City, N. Y. Filed Dec. 6, 1952.

Krimpaleen

For Lady's Stockings.

Claims use since Nov. 12, 1952.

Ser. No. 639,883. Hansen Glove Corporation, Milwaukee, Wis. Filed Dec. 22, 1952. (Sec. 2f.)

HANSEN

Applicant claims ownership of Registration No. 362,259.

For Men's and Ladies' Gloves of Leather, Fabric, Wool, and Combinations Thereof.

Claims use since 1902.

Ser. No. 640,324. Bifiex Foundations, Inc., New York, N. Y. Filed Jan. 5, 1953.

"FROU-FROU"

For Girdles.

Claims use since May 14, 1950.

Ser. No. 640,506. Femode Foundations, Inc., New York, N. Y. Filed Jan. 8, 1953.

Frostees BY FEMODE

Applicant claims ownership of Registration No. 529,487.

For Ladies' and Misses' Corsets, Corselettes, Girdles, Brassières, Bandeaux, and Panties.

Claims use since Mar. 9, 1948.

Ser. No. 640,509. Gaylord Products, Incorporated, Chicago, Ill. Filed Jan. 8, 1953.

Gaylia

For Hair Nets.

Claims use since May 15, 1950.

Ser. No. 640,516. Imperial Brassiere Corp., New York, N. Y. Filed Jan. 8, 1953.

VELVAFLEX

For Ladies' and Misses' Brassières, Bandeaux, and Girdles.

Claims use since Oct. 6, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 625,999. Olin Industries, Inc., East Alton, Ill. Filed Mar. 5, 1952.

SUPER-X

Applicant claims ownership of Registrations Nos. 405,121, 500,153, and others.

For Cuff Links and Buttons Made of Non-Precious Material.

Claims use since October 1950.

Ser. No. 629,520. Scovill Manufacturing Company, Waterbury, Conn. Filed May 10, 1952. (Sec. 2f.)

CLINTON

Applicant claims ownership of Registrations Nos. 85,279 and 245,961.

For Safety Pins, Straight Pins, Veil Pins, Hat Pins, Tidy Pins, Silk Pins, Hand-Sewing Needles; Hooks, Eyes, and Loops; Snap Fasteners and Thimbles.

Claims use since Feb. 19, 1927.

Ser. No. 629,521. Scovill Manufacturing Company, Waterbury, Conn. Filed May 10, 1952. (Sec. 2f as to "Clinton.")

CLINTON

Applicant claims ownership of Registrations Nos. 85,279 and 245,961.

For Safety Pins, Straight Pins, Veil Pins, Hat Pins, Tidy Pins, Silk Pins, Hand-Sewing Needles; Hooks, Eyes, and Loops; Snap Fasteners and Thimbles.

Claims use since August 1934.

Ser. No. 629,522. Scovill Manufacturing Company, Waterbury, Conn. Filed May 10, 1952.



Applicant claims ownership of Registration No. 85,676.
For Safety Pins, Straight Pins, Hat Pins, Veil Pins, Tidy Pins, Glasshead Pins, T Pins, Button-Attaching Safety Pins, Hooks and Eyes, Snap Fasteners, Hand Sewing Needles, and Thimbles.
Claims use since September 1907.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 628,215. Marlboro Fabrics, Inc., New York, N. Y. Filed Apr. 17, 1952.

LUM-O-LINE

For Fabrics in the Piece, Including Metallic-Insulated Fabrics, Both Quilted and Unquilted of Rayon or Acetate Fibers, or Combinations Thereof.
Claims use since Apr. 1, 1952.

Ser. No. 629,585. Riegel Textile Corporation, New York, N. Y. Filed May 12, 1952. (Sec. 2f.)

Riegel

Applicant claims ownership of Registrations Nos. 294,859, 300,237, and others.
For Pillow Cases and Piece Goods, the Latter Made of Cotton, Synthetic Fibers, or blends of Cotton and Synthetic Fibers.
Claims use since December 1931.

Ser. No. 632,933. Glencoe Mills, Burlington, N. C. Filed July 23, 1952.

DECKEDOUT

For Cotton Piece Goods.
Claims use since Mar. 14, 1952.

Ser. No. 637,507. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Nov. 1, 1952.

FORT-O-SHEEN

Applicant disclaims exclusive right to use "Sheen" apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 345,553, 505,467, and others.
For Piece Goods of Nylon, Rayon, Cotton, Wool, or Silk, or Substitutes Therefor, or Combinations Thereof.
Claims use since on or about Oct. 16, 1952.

Ser. No. 637,728. Spectrum Fabrics Corporation, New York, N. Y. Filed Nov. 6, 1952.

Spectrum

Applicant claims ownership of Registration No. 411,014.
For Piece Goods of Cotton, Wool, Linen, Silk, and Synthetic Fibers for Decorative, Drapery, and Upholstery Purposes.
Claims use since Jan. 1, 1938.

Ser. No. 637,885. Peirce and Company, Los Angeles, Calif. Filed Nov. 10, 1952.

Wool-Tex

No claim is made to the word "Wool" apart from the mark as shown.
For Wool Carpeting.
Claims use since June 9, 1952.

Ser. No. 638,472. Butler Brothers, Chicago, Ill. Filed Nov. 22, 1952.

Loomcrest

Applicant claims ownership of Registrations Nos. 352,614 and 540,314.
For Piece Goods, Including Muslin, of Cotton, Rayon, Nylon, and Other Synthetic Fibers.
Claims use since June 19, 1932.

Ser. No. 639,291. Scalamandré Silks, Inc., Long Island City, N. Y. Filed Dec. 10, 1952.

VICARSILK

For Textile Fabrics in the Piece Made Wholly of Silk and in Substantial Part of Silk Combined With Synthetic Fibres.
Claims use since Oct. 22, 1951.

Ser. No. 639,310. Bartmann & Bixer, Inc., New York, N. Y. Filed Dec. 11, 1952.

KENCHROME

Applicant claims ownership of Registration No. 548,972.
For Window Curtains.
Claims use since Nov. 17, 1952.

Ser. No. 639,858. Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Filed Dec. 20, 1952.

Fashion time

The word "Fashion" is disclaimed apart from the mark as shown in the drawing.
For Cotton Braided Rugs.
Claims use since Aug. 15, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 633,176. Spinnerin Yarn Co., Inc., South Hackensack, N. J. Filed July 28, 1952.

TOP FLIGHT

For Wool Yarns.
Claims use since July 21, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 623,423. Medical Supply Company, Rockford, Ill. Filed Jan. 10, 1952.

MSCO

For Adhesive Bandages, Antiseptic Applicators, Antiseptic Swabs, Bandage Compresses, and Miscellaneous First Aid Supplies—Namely, Bandage Scissors, Forceps, Snake Bite Lancet, Snake Bite Syringe, Tourniquets, Finger Cots, and Wire Splints.
Claims use since July 15, 1949.

Ser. No. 624,709. A. S. Aloe Company, St. Louis, Mo. Filed Feb. 11, 1952.

ultima

For X-Ray Machines for Medical Use for General diagnostic Purposes.
Claims use since Jan. 30, 1952.

Ser. No. 627,163. Air Reduction Company, Incorporated, New York, N. Y. Filed Mar. 28, 1952.

Selectrol

For Surgical Operating Tables, Including Specifically Control Mechanisms for Adjusting Patient's Position.
Claims use since July 1950.

Ser. No. 628,218. Mattox and Moore, Inc., Indianapolis, Ind. Filed Apr. 17, 1952.

MULTI-JECTOR

For Gun-Like Hypodermic Device for Veterinary Use.
Claims use since Feb. 12, 1952.

Ser. No. 629,951. Medco Products Co., Tulsa, Okla. Filed May 20, 1952.

Medcolator

For Electrical Treatment Machine for the Stimulation of Muscles by an Electric Current Applied Through Pad Electrodes.
Claims use since Mar. 24, 1952.

Ser. No. 632,773. Continental X-Ray Corporation, Chicago, Ill. Filed July 19, 1952.

PIONEER

For General Diagnostic X-Ray Power Tube and Control Units and General Diagnostic X-Ray Equipment for Medical and Surgical Use.
Claims use since June 19, 1952.

Ser. No. 633,293. American Porcelain Tooth Company Ltd., Nahlat Itzhak, near Tel-Aviv, Israel. Filed July 31, 1952.

NUCRYL

Applicant claims ownership of Israeli Registration No. 11,306, dated Jan. 23, 1951.
For Artificial Teeth.

Ser. No. 634,163. The Procter & Gamble Company, Cincinnati, Ohio. Filed Aug. 19, 1952.

Pert

Applicant claims ownership of Registrations Nos. 409,079 and 564,105.
For Home Permanent Waving Kit Consisting of Curlers and Cold Wave Waving Lotion Used in Permanent Waving of the Hair.
Claims use since May 20, 1952.

Ser. No. 637,386. Louis B. Modell, New York, N. Y. Filed Oct. 30, 1952.



For Combined Ultra-Violet and Infra Red Health Heat Lamp.
Claims use since April 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 541,387. Ballard & Ballard Co., Louisville, Ky., assignor to Pillsbury Mills, Inc., a corporation of Delaware. Filed Nov. 17, 1947. (Sec. 2f.)

OvenReady

Applicant claims ownership of Registration No. 294,449.
For Uncooked or Unbaked Dough for Making Biscuits.
Claims use since Mar. 9, 1931.

Ser. No. 543,664. Edward F. Solomon, trading under the name Pride & Co., Philadelphia, Pa. Filed Dec. 6, 1947.

Pride

For Dog Food Consisting of Frozen Fresh Horse Meat, Cubed or Chopped.
Claims use since Nov. 3, 1947.

Ser. No. 545,110. Escondido Orange Association, Escondido, Calif., assignee of Escondido Lemon Association. Filed Dec. 22, 1947.

LIBERTY

Applicant claims ownership of Registration No. 207,279.
For Fresh Citrus Fruits.
Claims use since Jan. 16, 1909.

Ser. No. 545,111. Escondido Orange Association, Escondido, Calif., assignee of Escondido Lemon Association. Filed Dec. 22, 1947.

FREEDOM

Applicant claims ownership of Registration No. 204,064.
For Fresh Citrus Fruits.
Claims use since June 13, 1923.

Ser. No. 565,450. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Sept. 18, 1948. (Sec. 2f.)

QUALITY PLUS

Without the waiver of any common-law rights applicant disclaims the word "Quality" apart from the rest of the mark.
For Wheat Flour.
Claims use since Dec. 14, 1939.

Ser. No. 577,497. Rudd-Melikian, Inc., Philadelphia, Pa. Filed Apr. 21, 1949. (Sec. 2f.)

Kwik Kafe

The drawing is lined for the color brown but no claim is made to color.
For Coffee Concentrates.
Claims use since June 1, 1946.

Ser. No. 595,118. Big Bear Stores Company, Columbus, Ohio. Filed Apr. 3, 1950.

BIG BEAR

For Coffee and for Blended Flour Made Up of Soft Winter Wheat Flour, Hard Winter Wheat Flour, and Spring Wheat Flour.
Claims use since Nov. 27, 1933.

Ser. No. 607,662. Duluth Universal Milling Company, Duluth, Minn. Filed Dec. 14, 1950.

GOPHER

For Wheat Flour.
Claims use since Apr. 11, 1908.

Ser. No. 607,870. Scenic Citrus Cooperative, Frostproof, Fla. Filed Dec. 19, 1950. (Sec. 2f.)

Ever Sweet

Applicant claims ownership of Registration No. 295,237.
For Fresh Citrus Fruits, Canned Citrus Fruits, and Canned Citrus Fruit Juices.
Claims use since Oct. 22, 1930.

Ser. No. 615,647. The E. Kahn's Sons Company, Cincinnati, Ohio. Filed June 25, 1951.

Imperial Club

Applicant claims ownership of Registration No. 76,163.
For Bacon and Ham.
Claims use since on or about Feb. 1, 1908.

Ser. No. 617,946. Dorothy Coleman, Chicago, Ill. Filed Aug. 22, 1951.

Dorothy Coleman

For Candy.
Claims use since Mar. 6, 1950.

Ser. No. 618,961. Fruit Products Corporation, New York, N. Y. Filed Sept. 19, 1951.

ACE

For Imitation Chocolate Coating for Frozen Confectionery Products.
Claims use since July 13, 1951.

Ser. No. 619,451. Continental Grill, Wichita, Kans. Filed Oct. 1, 1951.

CONTINENTAL GRILLS
GUARD
YOUR HEALTH
CONTINENTAL GRILLS

Exclusive use of the words "Guard Your Health," "Grills," and "Grill" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 373,793.
For Sandwiches and Bakery Goods—Namely, Cakes, Pies, and Pastries.
Claims use since July 1945.

Ser. No. 619,487. Washington Co-Operative Farmers Association, Seattle, Wash. Filed Sept. 18, 1951.

CERTI-BEST

Applicant disclaims any exclusive right to use or to register the word "Best," apart from the mark as shown.
For Fresh Shell Eggs.
Claims use since on or about Sept. 6, 1951.

Ser. No. 622,287. Albert E. Wollman, doing business as Associated Cheese Distributors, Los Angeles, Calif. Filed Dec. 8, 1951.



For Packaged Cheese.
Claims use since Oct. 4, 1951.

Ser. No. 625,832. Tom Boy, Inc., St. Louis, Mo. Filed Mar. 1, 1952.

TOM-BOY

For Extract of Vanilla for Food Purposes, Canned Sliced Apples, Canned Apple Sauce, Canned Apricots, Canned Fruit Cocktail, Canned Grapefruit, Canned Admixed Grapefruit and Orange, Canned Grapefruit Juice, Canned Unsweetened Orange Juice, Canned Blended Fruit Juices, Canned Pineapple Juice, Canned Halves of Peaches, Canned Sliced Peaches, Canned Plums, Canned Sliced Pineapple, Canned Crushed Pineapple, Canned Pineapple Cubes, Canned Olives, Pickled Relish, Cabbage Relish, Combination Pickle and Cabbage Relish, Chili Sauce, Catsup, Coffee, Vinegar, Mustard, Salad Dressing, Mayonnaise, Noodles, Salt, Canned Asparagus Spears, Canned Cut Asparagus, Canned Wax Beans, Canned Green Beans, Canned Lima Beans, Canned Kidney Beans, Canned Red Beans, Canned Pinto Beans, Canned Pork and Beans, Canned Beets, Canned Creamed Corn, Canned Whole Kernel Corn, Canned Hominy, Canned Kraut, Canned Peas, Canned Spinach, Canned Sweet Potatoes, Tomato Puree, Canned Tomato Juice, and All-Purpose Flour.
Claims use since 1904.

Ser. No. 626,484. Union Starch & Refining Company, Columbus, Ind. Filed Mar. 14, 1952.

PENNANT

Applicant claims ownership of Registrations Nos. 199,647, 337,987, and 541,915.
For Marshmallow and Marshmallow Creams, Corn Syrup, and Table Syrup.
Claims use since Oct. 1, 1908, as to the term "Pennant," and since Mar. 28, 1950, in its present form.

Ser. No. 627,201. Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, a corporation of Illinois. Filed Mar. 28, 1952.

Sta-Lar

For Lard.
Claims use since Jan. 4, 1952.

Ser. No. 627,391. Holland House Coffee and Tea Corp., Long Island City, N. Y. Filed Apr. 1, 1952. (Sec. 2f.)

Holland House

Applicant claims ownership of Registrations Nos. 342,578 and 552,744.
For Tea.
Claims use since Mar. 29, 1947.

Ser. No. 627,402. The Oakford Company, Peoria, Ill. Filed Apr. 1, 1952.

COMPANION

The drawing is lined to indicate the color red. The representation of the ribbon completely encircles the containers for the goods.
For Canned Fruits, Canned Vegetables, Canned Berries, Canned Pork and Beans, Canned Fish, Canned Shell Fish; Pickles, Olives; Dressings—Namely, Salad Dressing, Cottonseed Oil, Vinegar, Catchup, Mustard, Chili Sauce; Dry Fruits—Namely, Prunes, Peaches, Apricots; Fruit Preserves—Namely, Apple, Raspberry; Jelly—Namely, Apple Currant, Strawberry; Peanut Butter, Apple Butter, Cocoa, Cheese, Tea.
Claims use since 1912.

Ser. No. 627,620. Doud Milling Company, Denison, Iowa. Filed Apr. 5, 1952.



For Pancake Flour, Corn Meal, Rye Graham Flour, Rye Flour, Wheat Graham Flour, and Whole Wheat Flour.
Claims use since Oct. 22, 1951.

Ser. No. 628,156. Loft Candy Corporation, also doing business as Loft Candy Shops, Long Island City, N. Y. Filed Apr. 16, 1952.



Applicant claims ownership of Registrations Nos. 427,830, 443,888, and others.
For Ice Cream.
Claims use since May 22, 1950.

Ser. No. 630,177. York Cone Company, York, Pa. Filed May 23, 1952. (Sec. 2f.)

York

Applicant claims ownership of Registration No. 294,456.
For Ice Cream Cones.
Claims use since Apr. 1922.

Ser. No. 631,431. A. Michaud Co., Philadelphia, Pa. Filed June 19, 1952.

MICHAUD'S 24K GOLD BOND

No claim is made to the word "Michaud's" except in the association shown. Applicant claims ownership of Registration No. 534,619.

For Fresh Meat—Namely, Beef Loins, Beef Ribs, and Beef Steaks.

Claims use since May 5, 1948.

Ser. No. 631,994. Mutual Products Co., Minneapolis, Minn. Filed June 30, 1952.

VIGAPAC

The word "Pac" is disclaimed apart from the mark as shown.

For Concentrated Food Compound for Livestock and Poultry Containing as Principal Ingredients Wheat Red Dog, Oat Flour, Soy Flour, Powdered Buttermilk, Powdered Skim Milk, Blood Meal, Corn Starch, and Sugar.

Claims use since May 28, 1952.

Ser. No. 633,180. United Biscuit Company of America, Chicago, Ill. Filed July 28, 1952. (Sec. 2f.)

FELBER

For Cookies and Crackers.

Claims use since Sept. 13, 1901.

Ser. No. 633,181. United Biscuit Company of America, Chicago, Ill. Filed July 28, 1952. (Sec. 2f.)

Hekman's

For Cookies and Crackers.

Claims use since 1928.

Ser. No. 633,182. United Biscuit Company of America, Chicago, Ill. Filed July 28, 1952. (Sec. 2f.)

MANCHESTER

For Cookies and Crackers.

Claims use since 1927.

Ser. No. 633,183. United Biscuit Company of America, Chicago, Ill. Filed July 28, 1952. (Sec. 2f.)

Ontario

For Cookies and Crackers.

Claims use since 1928.

Ser. No. 633,482. Jacob August, doing business as Jack August's, Northampton, Mass. Filed Aug. 5, 1952.

Jack August's

Applicant consents to the registration of his business name as a trade-mark.

For Canned Clam Chowder, Bottled Tartar Sauce, Canned Fish Chowder, Canned Minced Clams, and Canned Lobster Stew.

Claims use since July 14, 1949.

Ser. No. 633,483. Jacob August, doing business as Jack August's, Northampton, Mass. Filed Aug. 5, 1952.

Jack August's

Applicant consents to the registration of his business name as a trade-mark.

For Canned Clam Chowder, Bottled Tartar Sauce, Canned Fish Chowder, Canned Minced Clams, and Canned Lobster Stew.

Claims use since July 14, 1949.

Ser. No. 633,508. Premier Popcorn Co., Watseka, Ill. Filed Aug. 5, 1952.

GOLDEN ROCKET

For Popcorn in Its Raw State.

Claims use since Aug. 26, 1947.

Ser. No. 635,287. Consolidated Citrus Growers, Mesa, Ariz. Filed Sept. 16, 1952.

SunDevil

For Fresh Citrus Fruits.

Claims use since Mar. 21, 1952.

Ser. No. 635,367. Lind & Lind, Seattle, Wash. Filed Sept. 17, 1952.

CAT'N' FIDDLE

For Canned Cat Food.

Claims use since Aug. 28, 1952.

Ser. No. 635,393. Atalanta Trading Corporation, New York, N. Y. Filed Sept. 18, 1952.

Land Mark

For Canned Ham.

Claims use since May 2, 1952.

Ser. No. 636,373. Elon I. Napier, Columbus, Ga. Filed Oct. 8, 1952.

POP'S

For Hot and Mild Barbecue Sauce.

Claims use since June 1, 1950.

Ser. No. 637,476. Brooks, Inc., Homestead, Fla. Filed Nov. 1, 1952.

MIAMI GOLD

No claim is made to the name "Miami" apart from the mark as shown.

For Fresh Limes, Avocadoes, and Mangoes.

Claims use since Oct. 16, 1952.

Ser. No. 638,122. Smith-Douglass Company, Inc., trading as Growers Supply Co., Norfolk, Va. Filed Nov. 14, 1952.

GROWERS SUPPLY CO.

The drawing is lined for red and green. No claim is made to the words "Growers Supply Co." and to "Brand" apart from the rest of the mark.

For Fresh Produce—Namely, Strawberries, Cabbage, Potatoes, Tomatoes, Peppers, Sweet Potatoes, Beans, Sweet Corn, Onions, Cucumbers, Lettuce, Collards, Spinach, Broccoli, Kale, Apples, Asparagus, Cabbage Sprouts, and Peas.

Claims use since Dec. 9, 1948.

Ser. No. 638,162. Salter Canning Company, North Rose, N. Y. Filed Nov. 13, 1952.

Rose-Fruit

No claim is made to the exclusive use of the word "Fruit," apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 246,913.

For Canned Fruits and Vegetables.

Claims use since the year 1912.

Ser. No. 638,429. Keith Mets, Grower and Shipper, Holtville, Calif. Filed Nov. 21, 1952. (Sec. 2f.)

Winter Garden

Applicant claims ownership of Registration No. 375,188.

For Fresh Vegetables.

Claims use since Jan. 15, 1934.

Ser. No. 639,332. The Jolly Rancher, Incorporated, Wheat Ridge, Colo. Filed Dec. 11, 1952.

FIRE STIX

The word "Stix" is disclaimed. The drawing is lined for red and yellow, with a flame indication therebetween.

For Candy.

Claims use since on or about Aug. 1, 1950.

Ser. No. 639,406. Jean Barl & Co., Inc. Import-Export, Cliffside Park, N. J. Filed Dec. 13, 1952.

ANBARI

For Canned Tomatoes, Tomato Paste, Manufactured Macaroni, Cheese.

Claims use since Mar. 18, 1952.

Ser. No. 641,059. M. E. Klinke, doing business as Klinke Hatchery, Madison, Wis. Filed Jan. 21, 1953.

MINI-TURKS

No claim is made to the word "Turks" apart from the mark as shown in the drawing.

For One-Meal Serving Size Ready-To-Cook Fresh Frozen Turkeys.

Claims use since Jan. 1, 1952.

Ser. No. 641,740. Polk County Citrus Sub-Exchange, Bartow, Fla. Filed Feb. 4, 1953.

SAVAGE

For Fresh Citrus Fruits.

Claims use since Nov. 15, 1940.

Ser. No. 641,825. Albers Super Markets, Inc., Cincinnati, Ohio. Filed Feb. 6, 1953.

BRUCEWOOD

For Cookies.

Claims use since January 1943.

Ser. No. 642,005. Zion Industries, Inc., Zion, Ill. Filed Feb. 9, 1953.

White Dove

For Candy.
Claims use since the year 1900.

Ser. No. 642,173. Willard H. Smith, doing business as Deep Run Packing Company, Dublin, Pa. Filed Feb. 12, 1953.

HILL BILLY

For Dog and Cat Food.
Claims use since February 1949.

Ser. No. 642,198. Chili Products Corporation Ltd., Los Angeles, Calif. Filed Feb. 13, 1953.

RED STAR

For Chili Powder and Paprika.
Claims use since January 1931.

Ser. No. 643,646. Chili Products Corporation Ltd., Los Angeles, Calif. Filed Mar. 16, 1953.

C S

Applicant claims ownership of Registration No. 230,913.
For Chili Pepper.
Claims use since Jan. 4, 1921.

Ser. No. 643,648. Chili Products Corporation Ltd., Los Angeles, Calif. Filed Mar. 16, 1953.

S S

Applicant claims ownership of Registration No. 230,909.
For Chili Pepper.
Claims use since Feb. 10, 1921.

Ser. No. 643,649. Chili Products Corporation Ltd., Los Angeles, Calif. Filed Mar. 16, 1953.

X 5

Applicant claims ownership of Registration No. 230,912.
For Chili Powder.
Claims use since Oct. 28, 1920.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 637,166. Blatz Brewing Company, Milwaukee, Wis. Filed Oct. 25, 1952. (Sec. 2f as to "Blatz.")

Blatz

Applicant claims ownership of Registrations Nos. 26,749, 49,804, and others.
For Beer.
Claims use since Feb. 9, 1895; and since Jan. 4, 1952, as shown.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 602,741. Balcano Company, Jersey City, N. J. Filed Aug. 25, 1950.

ALL AGOG

For Perfumes.
Claims use since Aug. 16, 1950.

Ser. No. 624,793. Jack B. Nethercutt, doing business as Nethercutt Laboratories, Santa Monica, Calif. Filed Feb. 11, 1952.

Tulaire

For Cosmetics—Namely, Cologne, Perfume, Dusting Powder, Cream Sachet, Bath Oil, and Gift Sets Consisting of Several or All of the Above Items Packaged Together.
Claims use since November 1935.

Ser. No. 624,971. Revlon Products Corporation, New York, N. Y. Filed Feb. 14, 1952.

EXUBERANCE

For Moisture Balm of a Creamy Nature.
Claims use since Jan. 14, 1952.

Ser. No. 631,662. David E. Gothé, New York, N. Y. Filed June 24, 1952.

VOICI

For Perfume, Toilet Water, Eau de Cologne.
Claims use since Mar. 11, 1952.

Ser. No. 634,157. Neiman-Marcus Company, Dallas, Tex. Filed Aug. 19, 1952.

a'TOi

Applicant claims ownership of Registration No. 232,734.
For Perfumes and Toilet Goods—Namely, Toilet Waters, Face Powders, Bath Powders, Lipsticks, Rouge, Filled Compacts, and Nail Preparations for Manicuring Purposes.
Claims use since October 1926.

Ser. No. 635,770. Norma T. Kadechka, St. Louis Park, Minn., assignor to Lick, Inc., Minneapolis, Minn., a corporation of Minnesota. Filed Sept. 25, 1952.

"Lick"

For Scalp and Dandruff Preparation.
Claims use since Apr. 1, 1952.

Ser. No. 637,600. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed Nov. 4, 1952.

WEDGWOOD

For Cologne.
Claims use since July 10, 1952.

Ser. No. 638,588. Kiefer-Stewart Company, Indianapolis, Ind. Filed Nov. 25, 1952.

OLD GIBRALTAR

For Witch Hazel Jelly, Hair Tonic, and Cologne Water.
Claims use since on or about Jan. 1, 1885.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 580,857. Luigi Rosati, doing business as Bleach-Ox Chemical Co., Bethlehem, Pa. Filed June 21, 1949. CONCURRENT USE with Ser. No. 627,784, for the area comprising the United States except the State of New Jersey; Bucks County, Pennsylvania; the State of New York, and all other States south of the southerly border of Pennsylvania and Ohio River and east of the Mississippi River. The word "Bleach" is disclaimed apart from the mark as shown in the drawing.

BLEACH-OX

For Compound in the Nature of a Disinfectant, Bleach, Cleanser, and Deodorant.
Claims use since 1929.

Ser. No. 606,843. American Stores Company, Philadelphia, Pa. Filed Nov. 24, 1950. (Sec. 2f.)

SPEEDUP

Applicant claims ownership of Registrations Nos. 351,758 and 557,189.
For Cleanser and Pine Oil Cleanser Disinfectant.
Claims use since Jan. 23, 1950.

Ser. No. 627,055. Fairfield Laboratories, Inc., Plainfield, N. J Filed Mar. 26, 1952.

PURITY CROSS

The word "Purity" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 216,478 and 408,164.
For Shampoo.
Claims use since on or about Jan. 1, 1948.

Ser. No. 629,971. Stanley Home Products, Inc., Westfield, Mass. Filed May 20, 1952.

STAN-RITE

For Liquid Scented Sanitizing Cleaner for Walls, Floors, Woodwork, Toilets and the Like.
Claims use since Feb. 26, 1952.

Ser. No. 633,638. Simmons Laboratories, Inc., Long Island City, N. Y. Filed Aug. 8, 1952.

O. D. S.

For Non-Inflammable Cleaning Fluid.
Claims use since July 25, 1951.

Ser. No. 634,791. The Lambert Company, doing business as John Hudson Moore Co., Division of The Lambert Company, New York, N. Y., and Jersey City, N. J. Filed Sept. 3, 1952.

TALL STORY

For Hand Soap.
Claims use since Aug. 14, 1952.

Ser. No. 637,036. G. N. Coughlan Company, West Orange, N. J. Filed Oct. 23, 1952.

Easy-aid

Applicant claims ownership of Registrations Nos. 362,669 and 403,752.
For Silver Cleaner.
Claims use since Oct. 2, 1952.

Ser. No. 640,316. Wildroot Company Inc., Buffalo, N. Y. Filed Jan. 2, 1953.

Lady Wildroot

Applicant claims ownership of Registrations Nos. 136,261 and 299,653.
For Shampoo.
Claims use since Jan. 11, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 392,691. Automatic Canteen Company of America, Chicago, Ill. Filed Feb. 18, 1950.

CANTEEN

Applicant claims ownership of Registrations Nos. 285,841, 288,284, and others.

For Leasing of Vending Machines on a Contract Basis.

Claims use since September 1929.

Ser. No. 611,815. Stanolind Oil and Gas Company, Tulsa, Okla. Filed Mar. 26, 1951.

STRATAFLOW

For Oil-Well Services—Namely, Detecting the Entry of Fluids Into a Well Bore.

Claims use since Jan. 4, 1951.

Ser. No. 621,998. Beta Theta Pi, Oxford, Ohio. Filed Dec. 3, 1951. COLLECTIVE MARK.



For Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity.

Claims use since July 28, 1890.

Ser. No. 625,737. Health Information Foundation, New York, N. Y. Filed Feb. 29, 1952.



Applicant disclaims the words "Information the Key to Health" apart from the mark itself.

For Gathering and Distributing Basic Information About Health To Stimulate People To Improve Their Own Health Standards.

Claims use since Dec. 20, 1951.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 628,799. Wade, Wenger & Associates, Inc., Chicago, Ill. Filed Apr. 26, 1952.



Applicant disclaims the word "Service" separate and apart from the combination shown in the drawing.

For General Cleaning Services Such as Carpets, Upholstery, Draperies, and General Household Fabric Materials and Articles of General Wearing Apparel.

Claims use since Feb. 18, 1952.

CLASS 106

MATERIAL TREATMENT

Ser. No. 637,508. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Nov. 1, 1952.

FORT-O-SHEEN

Applicant disclaims exclusive right to use the word "Sheen" except as part of the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 345,353, 505,467, and others.

For Finishing of Textile Fabrics or the Like, for the Production of Texturized Effects Therein.

Claims use on or about Oct. 16, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

575,059. Fresh Cut Flowers. The Sped-Fresh Company, Dayton, Ohio.
Filed Oct. 20, 1947, Serial No. 538,463. Published Feb. 17, 1953. Class 1.

575,060. Asphalt Impregnated Asbestos Felt for Building Construction Purposes. The Philip Carey Manufacturing Company, Cincinnati, Ohio.
Filed May 5, 1948, Serial No. 556,281. Published Oct. 14, 1952. Class 12.

575,061. Asbestos Felted Paper Used as a Substitute for Asbestos Woven Cloth and Asbestos Sheathing Paper With Fire-Proof Properties (Insulating) for Use in Floors, Partitions, and Walls, and All Kinds of Building Construction. The Philip Carey Manufacturing Company, Cincinnati, Ohio.
Filed May 11, 1948, Serial No. 556,772. Published Mar. 10, 1953. Class 12.

575,062. Medicinal Tea. Loraine H. Korman, doing business as C. & H. Steinkraus Co., Chicago, Ill.
Filed Oct. 18, 1948, Serial No. 567,147. Published Feb. 17, 1953. Class 18.

575,063. Vaporizing Apparatus Comprising an Electrically Heated Pot for Vaporizing Insecticides by Evaporation. Moth-King Corporation, Detroit, Mich.
Filed Nov. 26, 1948, Serial No. 569,461. Published Mar. 3, 1953. Class 21.

575,064. Candy. Zion Industries, Inc., Zion, Ill.
Filed Dec. 10, 1948, Serial No. 570,345. Published Oct. 7, 1952. Class 46.

575,065. Attic and Exhaust Fans for Houses and Buildings. American Coolair Corporation, Jacksonville, Fla.
Filed Dec. 13, 1948, Serial No. 570,402. Published Mar. 3, 1953. Class 34.

575,066. Baking Ovens, and Parts Pertaining to Such Apparatus. American Machine and Foundry Company, New York, N. Y.
Filed Mar. 3, 1949, Serial No. 574,805. Published Feb. 3, 1953. Class 34.

575,067. Fresh Apples. Standard Fruits, Inc., Wenatchee, Wash.
Filed May 4, 1949, Serial No. 578,231. Published Mar. 10, 1953. Class 46.

575,068. Electric Projection Lamps, Electric Rectifiers, and Parts Thereof. The Strong Electric Corporation, Toledo, Ohio.
Filed Aug. 16, 1949, Serial No. 583,559. Published Feb. 24, 1953. Class 21.

575,069. Educational Picture Puzzles. John G. Brink, Evanston, Ill.
Filed Aug. 23, 1949, Serial No. 583,850. Published Mar. 10, 1953. Class 22.

575,070. Fresh Deciduous Fruits. Mountain Fruit Company, Cedaredge, Colo.
Filed Oct. 12, 1949, Serial No. 586,183. Published May 27, 1952. Class 46.

575,071. Tamales. Chambers & Robinson, Seguin, Tex.
Filed Oct. 29, 1949, Serial No. 587,014. Published Mar. 10, 1953. Class 46.

575,072. Vanilla Flavoring for Foods, Imitation Vanilla Flavoring for Foods, Lemon Extract for Foods, Saccharin Tablets as a Food Additive. Sears, Roebuck and Co., Chicago, Ill.
Filed Nov. 9, 1949, Serial No. 587,565. Published Mar. 10, 1953. Class 46.

575,073. Clay Base Plastic Modeling Material. The American Crayon Company, Sandusky, Ohio.
Filed Nov. 15, 1949, Serial No. 587,783. Published Mar. 3, 1953. Class 1.

575,074. Watch Cases and Watch Dials. Synchro Watch & Jewelry Corp., New York, N. Y.
Filed Nov. 30, 1949, Serial No. 588,601. Published May 29, 1951. Class 27.

575,075. Dried Beans. Ray S. Berger, doing business as Berger Sales Company, Denver, Colo.
Filed Jan. 7, 1950, Serial No. 590,485. Published Mar. 10, 1953. Class 46.

575,076. Golf Balls. Acushnet Process Company, Acushnet and New Bedford, Mass.
Filed Feb. 3, 1950, Serial No. 591,901. Published Mar. 10, 1953. Class 22.

575,077. Butter. Gude Brothers, Kieffer Company, Jersey City, N. J., assignor, by mesne assignments, to June Dairy Products Co., Inc., a corporation of Delaware.
Filed Mar. 10, 1950, Serial No. 593,725. Published Mar. 10, 1953. Class 46.

575,078. Corn Picking and Husking Machines. Minneapolis-Moline Company, Hopkins, Minn.
Filed Mar. 9, 1950, Serial No. 593,848. Published Feb. 17, 1953. Class 23.

575,079. Bowling Pins. Mason Plastics Co., Inc., Kansas City, Kans.
Filed May 8, 1950, Serial No. 597,087. Published Mar. 10, 1953. Class 22.

575,080. Stoneware—Namely, Dinner Ware and Occasional Pieces—Namely, Pitchers, Salt and Peppers, Salad Bowls, Cruet Sets, Beer Mugs, Trays, and Casseroles. Heath Ceramics, Sausalito, Calif.
Filed June 9, 1950, Serial No. 598,852. Published Feb. 24, 1953. Class 30.

575,081. Wheat Flour and Wheat Breakfast Foods. Light Grain & Milling Co., Inc., Liberal, Kans.
Filed June 14, 1950, Serial No. 599,104. Published Mar. 10, 1953. Class 46.

575,082. Baby Chicks. Erskine P. Eustice, doing business as "Eustice Farms," Beardstown, Ill.
Filed June 16, 1950, Serial No. 599,230. Published Feb. 17, 1953. Class 1.

575,083. Hypodermic Needles and Syringes, and Parts Thereof, and Clinical Thermometers, for Use Particularly by Veterinarians. Randall Faichney Corporation, Boston, Mass.
Filed June 16, 1950, Serial No. 599,233. Published Mar. 3, 1953. Class 44.

575,084. Awnings. The Hettrick Manufacturing Company, Toledo, Ohio.
Filed June 28, 1950, Serial No. 599,872. Published Mar. 3, 1953. Class 50.

575,085. Coffee and a Blend of Coffee and Chicory. Blue Plate Foods, Inc., New Orleans, La.
Filed July 17, 1950, Serial No. 600,762. Published Mar. 10, 1953. Class 46.

575,086. All Types of Dolls and Toy Figures. Roller Derby Associates, Chicago, Ill.
Filed July 20, 1950, Serial No. 600,977. Published Mar. 10, 1953. Class 22.

575,087. Weatherstrip Packing for Window Channels. Van Cleef Bros., Inc., Chicago, Ill.
Filed July 20, 1950, Serial No. 601,005. Published Feb. 10, 1953. Class 12.

575,088. Perfume, Eau de Cologne, Face Creams, Face Powder, Toilet Powder, Etc. Academie Scientifique de Beaute, Paris and Colombes (Seine), France.
Filed July 27, 1950, Serial No. 601,294. Published Feb. 17, 1953. Class 51.

575,089. Glass Bottles. Mallinckrodt Chemical Works, St. Louis, Mo.
Filed July 27, 1950, Serial No. 601,328. Published Feb. 17, 1953. Class 33.

575,090. Heavy-Duty Ground Growth Disintegrating Machines for Clearing Land. American Steel Dredge Company Inc., Fort Wayne, Ind.
Filed Aug. 3, 1950, Serial No. 601,656. Published Jan. 20, 1953. Class 23.

575,091. Spark Plug Cleaning Machines. Edmund J. Wudel, doing business under the fictitious name and style of Edmund J. Wudel Mfg. Co., Los Angeles, Calif.
Filed Aug. 12, 1950, Serial No. 602,129. Published Jan. 20, 1953. Class 23.

575,092. Canned Vegetables and Canned Pork and Beans. Sam P. Spoto, doing business under the name and style of El Ranchero Canning Company, Tampa, Fla.
Filed Aug. 29, 1950, Serial No. 602,920. Published Mar. 10, 1953. Class 46.

575,093. Hot Food Tables Applying Dry or Moist Heat Selectively. Southern Equipment Company, St. Louis, Mo.
Filed Aug. 31, 1950, Serial No. 603,028. Published Feb. 3, 1953. Class 34.

575,094. Jewelry, in Particular Finger Rings for Children. Arthur E. Pond, doing business as Pond Bros., Detroit, Mich.
Filed Sept. 9, 1950, Serial No. 603,377. Published Mar. 10, 1953. Class 28.

575,095. Pickles, Sauerkraut, Pickled Cocktail Onions, Distilled White Vinegar, Pickled Peppers, Pickled Tomatoes, Olives, Pitted Cocktail Cherries, Pimentos, and India Relish. Heckman Products Corp., Washington, D. C.
Filed Sept. 20, 1950, Serial No. 603,788. Published Mar. 10, 1953. Class 46.

575,096. Automotive Spare Parts—Namely, Carburetors and Parts Thereof, Fuel Pumps and Parts Thereof. Murray Ferber, doing business under the name and style of Marlboro Automotive Co., New York, N. Y.
Filed Sept. 27, 1950, Serial No. 604,081. Published Jan. 20, 1953. Class 23.

575,097. Powdered Hydraulic Cements for Being Mixed With Water To Form Cement Base Paints, and Resin Base Ready Mixed Damp-Proofing Paints. American Fluresit Company, Inc., Cincinnati, Ohio.
Filed Sept. 29, 1950, Serial No. 604,175. Published Feb. 10, 1953. Class 16.

575,098. Games and Toys—Namely, Chess Sets, Checker Sets, Playing Cards, Playing Cards and Holders In Sets, Large Toy Abacuses, Toy Toasters, Toy Coffee Pots, Toy Rolling Pins, Toy Building Blocks, Toy Automobiles, Toy Automobile Dash Boards, and Puzzles. Mildred J. Robertson, New York, N. Y.
Filed Oct. 6, 1950, Serial No. 604,549. Published Mar. 10, 1953. Class 22.

575,099. Hammocks. McKinley Corporation, Baraboo, Wis.
Filed Oct. 9, 1950, Serial No. 604,650. Published Mar. 10, 1953. Class 22.

575,100. Rubbing and Polishing Compound Containing an Abrasive, for Enameled, Lacquered, and Varnished Surfaces. Herman J. Reich, doing business as Magic Iron Cement Company, Cleveland, Ohio.
Filed Oct. 17, 1950, Serial No. 605,053. Published Mar. 10, 1953. Class 4.

575,101. Crucibles. The Morgan Crucible Company Limited, London, England.
Filed Oct. 26, 1950, Serial No. 605,523. Published Mar. 10, 1953. Class 34.

575,102. Plywood. International Plywoods Limited, Montreal, Quebec, Canada.
Filed Oct. 30, 1950, Serial No. 605,587. Published Feb. 3, 1953. Class 12.

575,103. Ground Barytes, Native Clays, and Mica. Magnet Cove Barium Corporation, Bellaire, Tex.
Filed Oct. 30, 1950, Serial No. 605,596. Published Feb. 17, 1953. Class 1.

575,104. Silver Plated Flatware. The R. Wallace & Sons Manfg. Co., Wallingford, Conn.
Filed Nov. 17, 1950, Serial No. 606,580. Published Mar 10, 1953. Class 28.

575,105. Silver Plated Flatware. The R. Wallace & Sons Manfg. Co., Wallingford, Conn.
Filed Nov. 17, 1950, Serial No. 606,581. Published Mar. 10, 1953. Class 28.

575,106. Water Supply Rust Inhibitor Chemical. Universal Refining Products Co., Inc., New York, N. Y.
Filed Aug. 13, 1951, Serial No. 617,637. Published Mar. 17, 1953. Class 6.

575,107. Electrical Juicers for Domestic Use, Electrical Bakery and Pastry Machines for Domestic Use, Etc. T. Oertli A. G., Zurich, Switzerland.
Filed Jan. 6, 1951, Serial No. 608,468. Published Feb. 10, 1953. Class 21.

575,108. Honey. T. J. Paisley Company, Medina, Ohio.
Filed Feb. 8, 1951, Serial No. 609,810. Published Mar. 10, 1953. Class 46.

575,109. Type Composing Machines. Fairchild Camera and Instrument Corporation, Jamaica, N. Y.
Filed Feb. 17, 1951, Serial No. 610,207. Published Feb. 3, 1953. Class 23.

575,110. Flashing Neon Warning and Beacon Lights Used for Beacons, Highway Traffic Markers, Highway Obstruction Warning Markers, and Street Construction Warning Markers. Light Products, Inc., Beverly Hills, Calif.
Filed Mar. 5, 1951, Serial No. 610,858. Published Feb. 24, 1953. Class 21.

575,111. Gas Burning Cargo Heaters. American Gas Machine Company, Albert Lea, Minn.
Filed Mar. 10, 1951, Serial No. 611,122. Published Mar. 10, 1953. Class 34.

575,112. Farm, Vegetable, and Flower Seeds. Berry Seed Company, and also doing business under the the following names, Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa.
Filed Mar. 15, 1951, Serial No. 611,334. Published Mar. 10, 1953. Class 1.

575,113. Dryer-Chair Combination for Use as Beauty Salon Equipment. Beautilities, Inc., Los Angeles, Calif.
Filed Apr. 17, 1951, Serial No. 612,724. Published Feb. 24, 1953. Class 44.

575,114. Clear and Colored Glazes, Crackel Glaze, and Under Glaze Enamels, All Being Vitrifiable Compositions Used in the Ceramic Industry. Stewart J. Hart, doing business under the name and style of Hart Ceramic Supply, Inglewood, Calif.
Filed May 1, 1951, Serial No. 613,370. Published Feb. 10, 1953. Class 12.

575,115. Liquid Composition for Addition in Foundry Core, Molding and Facing Sand Mixtures, Etc. Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio.
Filed May 3, 1951, Serial No. 613,433. Published Feb. 17, 1953. Class 1.

575,116. Ointment Used as a Dressing for Cuts, Wounds, Burns, and Minor Skin Irritations and for Vitamins in Capsule and Liquid Form. Lewis A. Gross, doing business as The Mulcine Company (also known as The Mulcine Co.), Philadelphia, Pa., assignor to Mead Johnson & Company, Evansville, Ind., a corporation of Indiana.
Filed May 3, 1951, Serial No. 613,449. Published Sept. 23, 1952. Class 18.

575,117. Magnetic Pressure Switches. Etc., Inc., Niles, Mich., assignee of Everett P. Larsh, doing business as Newport Ships, Not Inc.
Filed May 19, 1951, Serial No. 614,088. Published Feb. 24, 1953. Class 21.

575,118. Electrical Apparatus—Namely, Switches, Contact Points, Fuses, Terminals, and Electric Motor Controllers for the Starting, Stopping, Speed Regulating, and Reversing of Electric Motors. Midland Electric Manufacturing Company, Limited, Tyseley, Birmingham, England.
Filed May 21, 1951, Serial No. 614,157. Published Feb. 24, 1953. Class 21.

575,119. Portable Vehicle Wheel Toe-In and Toe-Out and Camber Indicator of the Drive-Over Class. John Love, West Orange, N. J.
Filed June 28, 1951, Serial No. 615,839. Published Feb. 3, 1953. Class 26.

575,120. X-Ray Film Holders. Picker X-Ray Corporation, New York, N. Y.
Filed July 3, 1951, Serial No. 616,047. Published Feb. 3, 1953. Class 26.

575,121. Photographic Cameras, Photographic Projectors, Photographic Printers, Etc. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed July 3, 1951, Serial No. 616,089. Published Feb. 3, 1953. Class 26.

575,122. Fabricated Steel Structures—Namely, Electric Substation Structures, Etc. Emsco Derrick & Equipment Company, Los Angeles, Calif.
Filed July 14, 1951, Serial No. 616,475. Published Feb. 10, 1953. Class 12.

575,123. Magnetic Tape Sound Recording Machines. Berlant Associates, Los Angeles, Calif.
Filed July 16, 1951, Serial No. 616,541. Published Feb. 24, 1953. Class 21.

575,124. Hot Water Boilers and Hot Water Supply Heaters. International Heater Company, Utica, N. Y.
Filed July 28, 1951, Serial No. 617,084. Published Feb. 3, 1953. Class 34.

575,125. Scoops and Shovels. The Wood Shovel and Tool Company, Piqua, Ohio.
Filed Aug. 1, 1951, Serial No. 617,220. Published Feb. 10, 1953. Class 23.

575,126. Barbeque Sauce. Meat Industry Suppliers, Inc., Chicago, Ill.
Filed Aug. 10, 1951, Serial No. 617,346. Published Jan. 27, 1953. Class 46.

575,127. Industrial and Domestic Air Conditioning Installations and Apparatus—Namely, Ventilating Fans, Unit Heaters, and Dehumidifying Apparatus of the Mechanical Refrigeration Type. Paul Raymond Marchal, Paris, France.
Filed Aug. 17, 1951, Serial No. 617,803. Published Mar. 3, 1953. Class 34.

575,128. Heat Reflective Panels for Use in the Apertures of Cast Building Blocks as well as for Cast Building Blocks Incorporating Heat Reflective Panels. Thermoflector Corporation, North Sioux City, S. Dak., assignee of Era Development Corp.
Filed Aug. 20, 1951, Serial No. 617,900. Published Mar. 10, 1953. Class 12.

575,129. Hair and Scalp Conditioning Preparation in Salve Form, Crulan, Inc., Chicago, Ill.
Filed Aug. 23, 1951, Serial No. 617,980. Published Mar. 3, 1953. Class 51.

575,130. Hardened Glass Protective Lenses for Goggles and Spectacles. Chicago Eye Shield Company, Chicago, Ill.
Filed Sept. 5, 1951, Serial No. 618,388. Published Feb. 3, 1953. Class 26.

575,131. Mobile Feed Tanks and Mobile Feed Mixing Tanks. Barker Poultry Equipment Co., Ottumwa, Iowa.
Filed Sept. 8, 1951, Serial No. 618,528. Published Mar. 10, 1953. Class 19.

575,132. Electrically Operated Combined Floor Cleaning, Scrubbing, and Polishing Machines. Finnell System, Inc., Elkhart, Ind.
Filed Sept. 20, 1951, Serial No. 619,011. Published Mar. 10, 1953. Class 21.

575,133. Electric Arc-Welding Apparatus and Parts Thereof and Accessories Therefor Comprising Supply Generators, Transformers, Timing Devices, Automatic Contactors and Interlocking Relays, Regulating Resistances and Inductances, Rectifiers, Cables, and Switches. Cyc-Arc Limited, London, England.
Filed Sept. 24, 1951, Serial No. 619,156. Published Mar. 3, 1953. Class 21.

575,134. Dynamometers. Heenan & Froude Limited, Worcester, England.
Filed Sept. 26, 1951, Serial No. 619,243. Published Feb. 3, 1953. Class 26.

575,135. Pipeline or Flow Meters; Fuel Dispensers and Measuring Apparatus, Etc. The Wayne Pump Company, Fort Wayne, Ind.
Filed Sept. 6, 1951, Serial No. 619,424. Published Feb. 3, 1953. Class 26.

575,136. Sewing Machines. Sewing Machine Factors, San Francisco, Calif.
Filed Oct. 1, 1951, Serial No. 619,480. Published Feb. 10, 1953. Class 23.

575,137. Electric Brakes and Spare Parts Therefor. Society "Electro-Mecanique de l'Aveyron," S. A., Rodez (Aveyron), France.
Filed Oct. 3, 1951, Serial No. 619,552. Published Mar. 10, 1953. Class 21.

575,138. Granulated Detergent for Household Use. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Oct. 4, 1951, Serial No. 619,566. Published Mar. 10, 1953. Class 52.

575,139. Air and Gas Drying and Conditioning Equipment of a Character Wherein the Air or Gas Is Dried by Passing the Same Through a Bed of Desiccating Material or Through a Refrigerating Zone. Daly, Merritt & Sullivan, Inc., Falls Church, Va.
Filed Oct. 18, 1951, Serial No. 620,144. Published Mar. 10, 1953. Class 34.

575,140. Canned Frozen Lime Juice Concentrate for Use as a Food Flavoring. Parman and Kendall, Homestead, Fla.
Filed Oct. 22, 1951, Serial No. 620,322. Published Mar. 10, 1953. Class 46.

575,141. Apparatus Removably Secured to the Handle of a Golf Cart for Holding a Golf Score Card. Hawley Products, Chicago, Ill.
Filed Oct. 23, 1951, Serial No. 620,343. Published Mar. 10, 1953. Class 22.

575,142. Laminated Material, the Laminations Consisting of a Thermoplastic Material Combined With Pulpboard, Newsboard, Paper Felt, or Cork Sold in Sheet Form for General Use in the Industrial Arts. Standard Insulation Company, East Rutherford, N. J.
Filed Oct. 30, 1951, Serial No. 620,696. Published Feb. 17, 1953. Class 1.

575,143. Watch Straps. Morris Sherry, doing business as Leather Specialty Co., New York, N. Y.
Filed Nov. 9, 1951, Serial No. 621,090. Published Mar. 3, 1953. Class 28.

575,144. Automotive Products—Namely, a Non-Mineral Oil Lubricant for Automotive Shackles. Permatex Company, Inc., Brooklyn, N. Y.
Filed Nov. 14, 1951, Serial No. 621,225. Published July 8, 1952. Class 15.

575,145. Galley Pumps, Force Pumps, Shallow and Deep Well Reciprocating Pumps, Jet Pumps, Swedging Tools for Pipes, and Pipe Dogs. A. Y. McDonald Mfg. Co., Dubuque, Iowa.
Filed Nov. 15, 1951, Serial No. 621,277. Published Feb. 3, 1953. Class 23.

575,146. Foot Valves and Strainers, Pipe Plugs, Pipe Couplings for Jet Pumps, Etc. A. Y. McDonald Mfg. Co., Dubuque, Iowa.
Filed Nov. 15, 1951, Serial No. 621,278. Published Feb. 17, 1953. Class 13.

575,147. Silverplated Flat and Hollow Tableware. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed Nov. 24, 1951, Serial No. 621,631. Published Mar. 10, 1953. Class 28.

575,148. Compound for Use as a Motor Fuel Additive and as a Cleaner Useful To Dissolve Gasoline Gum, Varnish, and Other Fuel Deposits in Internal Combustion Engines and for Other Purposes. The Pennzoil Company, Los Angeles, Calif.
Filed Nov. 24, 1951, Serial No. 621,633. Published Feb. 24, 1953. Class 52.

575,149. Industrial and Marine Clutches, Brakes for Industrial Machines, and Flexible Shaft-Couplings. The Fawick Airflex Company, Inc., Cleveland, Ohio, assignor to Federal Fawick Corporation, a corporation of Michigan.
Filed Nov. 26, 1951, Serial No. 621,665. Published Feb. 10, 1953. Class 23.

575,150. Lotion To Promote Suntan and Relieve Sunburn. George Lanneau Nye, doing business as The Havatan Company, Mullins, S. C.
Filed Nov. 29, 1951, Serial No. 621,835. Published Nov. 4, 1952. Class 51.

575,151. Fish Netting Cut to Size. The Frontel Net & Twine Corp., East Hampton, Conn.
Filed Dec. 8, 1951, Serial No. 622,255. Published Mar. 10, 1953. Class 22.

575,152. Electrical Connectors. Burndy Engineering Company, Inc., New York, N. Y.
Filed Dec. 28, 1951, Serial No. 622,924. Published Feb. 24, 1953. Class 21.

575,153. Powdered Water Softening Detergent and Cleaner for General Household, Laundry, Farm, and Dairy Use. Diamond Alkali Company, Cleveland, Ohio.
Filed Dec. 28, 1951, Serial No. 622,928. Published Mar. 10, 1953. Class 52.

575,154. Motors Operated by Air-Pressure, Vacuum, and Fluid Pressure and Parts Thereof. Magnatex Limited, Harlington, England.
Filed Dec. 28, 1951, Serial No. 622,946. Published Dec. 30, 1952. Class 23.

575,155. Children's Play Masks. J. H. Miller Mfg. Corporation, Quincy, Ill.
Filed Dec. 28, 1951, Serial No. 622,947. Published Mar. 10, 1953. Class 22.

575,156. Canned Artichokes, Asparagus, Mushrooms, Tomatoes, Red Peppers, and Tomato Paste. Industrias Muerza S. A. Viuda e Hijos de Máximo Muerza, San Adrian, Navarra, Spain.
Filed Jan. 3, 1952, Serial No. 623,145. Published Mar. 10, 1953. Class 46.

575,157. Automobile Shock Absorbers. Monroe Auto Equipment Company, Monroe, Mich.
Filed Jan. 14, 1952, Serial No. 623,558. Published Mar. 10, 1953. Class 19.

575,158. Ready-To-Install Bats of Sound Absorbing Lining Material for Automobile Engine Compartments and the Like. Popalisky and Rachlin, Milwaukee, Wis.
Filed Jan. 14, 1952, Serial No. 623,562. Published Mar. 10, 1953. Class 19.

575,159. Tobacco Dryers. George H. Grimm, trading as Grimm Brooder Manufacturing Company, Toms River, N. J.
Filed Jan. 21, 1952, Serial No. 623,836. Published Mar. 10, 1953. Class 34.

575,160. Chinaware—Namely, Tableware and Dishes, Porcelain Jars, Vases. Ardalt Inc., New York, N. Y.
Filed Jan. 24, 1952, Serial No. 624,005. Published Mar. 10, 1953. Class 30.

575,161. Lawn Seed. Seaboard Seed Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,363. Published Feb. 17, 1953. Class 1.

575,162. Lawn Seed. Seaboard Seed Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,366. Published Feb. 17, 1953. Class 1.

575,163. Plain Bearings. Farm Tools, Inc., Mansfield, Ohio.
Filed Feb. 2, 1952, Serial No. 624,451. Published Feb. 10, 1953. Class 23.

575,164. Exterior Decorative Panel Siding Having Insulating Value. Vitraside Industries, Inc., sometimes doing business as Vitraside Industries, Milwaukee, Wis.
Filed Feb. 4, 1952, Serial No. 624,511. Published Feb. 10, 1953. Class 12.

575,165. Selenium Sulfide Preparations for the Treatment of Non-Specific Dermatoses in Veterinary Practice. Abbott Laboratories, North Chicago, Ill.
Filed Feb. 23, 1952, Serial No. 625,382. Published Feb. 17, 1953. Class 18.

575,166. Motion Picture Screens. Da-Lite Screen Company, Inc., Chicago, Ill.
Filed Feb. 23, 1952, Serial No. 625,405. Published Jan. 27, 1953. Class 26.

575,167. Brooders, Feeders, and Waterers, for Livestock and Poultry. Howard S. Brembeck, doing business as Chore Time Equipment Company, Alliance, Ohio.
Filed Feb. 26, 1952, Serial No. 625,518. Published Mar. 3, 1953. Class 50.

575,168. Dried Fruit. Safeway Stores, Incorporated, Oakland, Calif.
Filed Mar. 8, 1952, Serial No. 626,174. Published Mar. 10, 1953. Class 46.

575,169. Penicillin Derivative in Powder Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,304. Published Feb. 17, 1953. Class 18.

575,170. Penicillin Derivative in Tablet Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,305. Published Feb. 17, 1953. Class 18.

575,171. Wax Polish for Use on Objects of Wood, Metal, Leather, and Plastic. Gaffney Brothers Company, Charlotte, N. C.
Filed Mar. 14, 1952, Serial No. 626,454. Published Mar. 10, 1953. Class 4.

575,172. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Mar. 14, 1952, Serial No. 626,455. Published Feb. 17, 1953. Class 28.

575,173. Insulating Siding. The Flintkote Company, New York, N. Y.
Filed Mar. 15, 1952, Serial No. 626,503. Published Feb. 10, 1953. Class 12.

575,174. Heat Exchangers Having Extended Surface Thereon and Used in Steam Generating Plants, Hot Air Furnaces, Oil Heaters, and Wherever Indirect Heat Transfer Is To Take Place Between Fluids Having Different Surface Conductances. David Dalin, New York, N. Y.
Filed Mar. 21, 1952, Serial No. 626,783. Published Feb. 24, 1953. Class 34.

575,175. Sunglasses, Goggles and Spectacles, Shooting Glasses. Philip Jay Medicus, New York, N. Y.
Filed Mar. 21, 1952, Serial No. 626,809. Published Feb. 3, 1953. Class 26.

575,176. Electrical Insulating Sheet Material Composed in Part of Asbestos Paper and Glass Fiber or Filament. Natvar Corporation, Woodbridge, N. J.
Filed Apr. 1, 1952, Serial No. 627,401. Published Feb. 24, 1953. Class 21.

575,177. Preparations for Use in the Treatment of Hair—Namely, Hair Dyes, Hair Lotions, Hair Creams, Hair Lacquers, Liquid Hair Conditioners, Preparations for Waving and Curling the Hair. The Wella Corporation, New York, N. Y.
Filed Apr. 1, 1952, Serial No. 627,415. Published Mar. 3, 1953. Class 51.

575,178. Preparations for Use in the Treatment of Hair—Namely, Hair Dyes, Hair Lotions, Hair Creams, Hair Lacquers, Liquid Hair Conditioners, Preparations for Waving and Curling the Hair. The Wella Corporation, New York, N. Y.
Filed Apr. 1, 1952, Serial No. 627,416. Published Feb. 17, 1953. Class 51.

575,179. Detergent Preparation for Use in Cleaning Gloves of Leather, Wool, Cotton, Nylon, Silk, and/or Combinations of These Materials. Buscariet Glove Company, Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,672. Published Mar. 10, 1953. Class 52.

575,180. Central Heating Furnaces Burning Coal, Gas, or Oil, and Parts of Such Units. Hart & Crouse Corporation, Oneida, N. Y.
Filed Apr. 7, 1952, Serial No. 627,683. Published Mar. 3, 1953. Class 34.

575,181. Steel Sheets. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,716. Published Mar. 10, 1953. Class 14.

575,182. Metal Rails and Splice Bars. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,717. Published Mar. 10, 1953. Class 14.

575,183. Steel Sheets. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,718. Published Mar. 10, 1953. Class 14.

575,184. Fishing Rods, Heels, and Lines. Western Auto Supply Company, Kansas City, Mo.
Filed Apr. 10, 1952, Serial No. 627,913. Published Mar. 10, 1953. Class 22.

575,185. Ventilation-Control Device, Comprising a Frame With Louvers, Etc. Air Devices, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,916. Published Mar. 10, 1953. Class 34.

575,186. Goggles. United States Safety Service Co., Kansas City, Mo.
Filed Apr. 11, 1952, Serial No. 627,980. Published Feb. 3, 1953. Class 26.

575,187. Indoor Television Antennas. Beacon Corporation, Chicago, Ill.
Filed Apr. 12, 1952, Serial No. 627,995. Published Feb. 24, 1953. Class 21.

575,188. Chamois Skins. Drueding Brothers Company, Philadelphia, Pa.
Filed Apr. 16, 1952, Serial No. 628,147. Published Feb. 24, 1953. Class 1.

575,189. Permanent Ferrite Magnets. Ferroxcube Corporation of America, New York, N. Y.
Filed Apr. 17, 1952, Serial No. 628,197. Published Mar. 3, 1953. Class 21.

575,190. Wax Remover or Cleaner. Western Chemical Company, St. Joseph, Mo.
Filed Apr. 17, 1952, Serial No. 628,236. Published Mar. 10, 1953. Class 52.

575,191. Linings of Hard and Soft, Natural and Synthetic Rubber, Etc. Broadway Rubber Corporation, Louisville, Ky.
Filed Apr. 21, 1952, Serial No. 628,391. Published Mar. 10, 1953. Class 12.

575,192. Alloy for Metal Joining Purposes. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Apr. 21, 1952, Serial No. 628,401. Published Mar. 10, 1953. Class 14.

575,193. Spring Suspensions for Vehicles, Including Automobiles, Trucks, Busses, and Trailers. John Roehrig, Pittsburgh, Pa.
Filed Apr. 21, 1952, Serial No. 628,431. Published Mar. 10, 1953. Class 19.

575,194. Toy Animals and Insects, Toy Smokers' Articles, Toy Jewelry, Toy Tools, Toy Flowers, Toy Cameras, Toy Kitchen Utensils, Etc. Charms, Incorporated, Brillion, Wis.
Filed Apr. 22, 1952, Serial No. 628,467. Published Mar. 10, 1953. Class 22.

575,195. Toys Made From Plastic—Namely, the Figure of a Cow. Thomas Manufacturing Corp., Newark, N. J.
Filed Apr. 23, 1952, Serial No. 628,587. Published Mar. 10, 1953. Class 22.

575,196. Dust and Particle Separators and Samplers for Industrial Use, for Gathering or Collecting of Dust or Other Particles, Sold as a Unit, and Parts Thereof. Buell Engineering Company, Inc., New York, N. Y.
Filed Apr. 25, 1952, Serial No. 628,669. Published Feb. 10, 1953. Class 23.

575,197. Lenses. American Optical Company, Southbridge, Mass.
Filed May 2, 1952, Serial No. 629,079. Published Feb. 3, 1953. Class 26.

575,198. Dinnerware—Namely, Dishes, Plates, Cups, and Saucers Made of Earthenware. Stetson China Co., Inc., Lincoln, Ill.
Filed May 2, 1952, Serial No. 629,131. Published Feb. 17, 1953. Class 30.

575,199. Ophthalmic Frames. American Optical Company, Southbridge, Mass.
Filed May 3, 1952, Serial No. 629,142. Published Feb. 3, 1953. Class 26.

575,200. Dates. Schroeder Bros., Inc., New York, N. Y.
Filed May 16, 1952, Serial No. 629,818. Published Mar. 3, 1953. Class 46.

575,201. Dates. Schroeder Bros., Inc., New York, N. Y.
Filed May 16, 1952, Serial No. 629,820. Published Mar. 3, 1953. Class 46.

575,202. Electrical Insulating Materials and Supplies and Electrical Insulators—Namely, Sheets, Tapes, Rolls, Tubing, and Shaped Insulators Composed at Least in Part of Mica. Mica Insulator Company, Schenectady, N. Y.
Filed May 22, 1952, Serial No. 630,089. Published Feb. 24, 1953. Class 21.

575,203. Hygienic and Astringent Powder for Use Externally in General Body Hygiene, as a Tooth Powder, Etc. Eastern Research Laboratories, Inc., Baltimore, Md.
Filed May 26, 1952, Serial No. 630,263. Published Feb. 17, 1953. Class 18.

575,204. Hoists for Lifting and Lowering Bodies on Trucks, Operated Manually, Hydraulically, and Electrically; and Dumping Hoists for Farm Equipment. Converto Mfg. Co., Inc., Cambridge City, Ind.
Filed June 2, 1952, Serial No. 630,583. Published Feb. 10, 1953. Class 23.

575,205. Fresh Produce—Namely, Peaches, Apricots, and Tomatoes. Jackson & Walton, Modesto, Calif.
Filed June 6, 1952, Serial No. 630,847. Published Mar. 10, 1953. Class 46.

575,206. Electrical Signaling Device for Bed Wetting Consisting Essentially of Relatively Thin Flexible Metal Sheets and a Battery Operated Buzzer Adapted To Be Connected With Insulated Current Conducting Wire. Health Guardian Corporation, Chicago, Ill., and Monroe, Wis.
Filed June 11, 1952, Serial No. 631,056. Published Feb. 24, 1953. Class 21.

575,207. Spectacles and Spectacle Lenses. Bausch & Lomb Optical Company, Rochester, N. Y.
Filed June 12, 1952, Serial No. 631,091. Published Jan. 27, 1953. Class 26.

575,208. Dense, Machinable and Moldable Composite Material of Cloth or Paper Impregnated With a Thermo-Setting Resin, Intended for Further Manufacture in the Industrial Arts. Mica Insulator Company, Schenectady, N. Y.
Filed June 13, 1952, Serial No. 631,167. Published Mar. 3, 1953. Class 1.

575,209. Permanent Mold Aluminum Castings, Aluminum Die Castings, and Zinc Die Castings. Monarch Aluminum Mfg. Company, Cleveland, Ohio.
Filed June 13, 1952, Serial No. 631,170. Published Mar. 10, 1953. Class 14.

575,210. Electric Welding Apparatus. Multi-Hydromatic Welding and Manufacturing Company, East Detroit, Mich.
Filed June 17, 1952, Serial No. 631,300. Published Mar. 10, 1953. Class 21.

575,211. Material Comprising a Stone Composition for Treating and Mending Walls. Abe Darcy Ross, Havertown, Pa.
Filed June 17, 1952, Serial No. 631,313. Published Mar. 10, 1953. Class 12.

575,212. Geriatric Dietary Supplement. Pharmaceuticals, Inc., Newark, N. J.
Filed June 19, 1952, Serial No. 631,437. Published Feb. 17, 1953. Class 18.

575,213. Cookies. Salerno-Megowen Biscuit Company, Chicago, Ill.
Filed June 20, 1952, Serial No. 631,500. Published Mar. 10, 1953. Class 46.

575,214. Field Seeds. Delta Seed Corporation, West Memphis, Ark.
Filed June 21, 1952, Serial No. 631,548. Published Mar. 3, 1953. Class 1.

575,215. Enriched Dehydrated Alfalfa Meal for Live Stock and Poultry Consumption. National Alfalfa Dehydrating & Milling Company, Lamar, Colo.
Filed June 23, 1952, Serial No. 631,628. Published Mar. 10, 1953. Class 46.

575,216. Combined Head Protector and Temple Guards for Baseball Players. Robert McCoy, New York, N. Y.
Filed June 25, 1952, Serial No. 631,746. Published Mar. 10, 1953. Class 22.

575,217. Internal Combustion Engines. Nordberg Manufacturing Company, Milwaukee, Wis.
Filed June 25, 1952, Serial No. 631,755. Published Jan. 20, 1953. Class 23.

575,218. Electrically Operable Hearing Aid Component Responsive Inductively to an Audio Frequency Magnetic Field. E. A. Myers & Sons, Inc., Mount Lebanon, Pittsburgh, Pa.
Filed June 27, 1952, Serial No. 631,881. Published Mar. 3, 1953. Class 44.

575,219. Rubber Floor Coverings—Namely, Rugs and Mats. Wear Proof Mat Company, Chicago, Ill.
Filed June 30, 1952, Serial No. 632,006. Published Mar. 10, 1953. Class 50.

575,220. Sublingual Medicaments Such as Steroids, Anticoagulants, and Stimulants. Abbott Laboratories, North Chicago, Ill.
Filed July 2, 1952, Serial No. 632,060. Published Feb. 24, 1953. Class 18.

575,221. Pharyngoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,342. Published Feb. 24, 1953. Class 44.

575,222. Endoscopic Instruments—Namely, Cystoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,344. Published Feb. 24, 1953. Class 44.

575,223. Specimen Tube Combination Comprising a Holder, Tube, and Needle for Collecting Blood and Other Body Fluids. Becton Dickinson and Company, Rutherford, N. J.
Filed July 10, 1952, Serial No. 632,354. Published Feb. 24, 1953. Class 44.

575,224. Abrasive Disks and Abrasive Strips for Use by Dentists. Paul Hopf, doing business as Hopf, Ringleb & Co., Berlin, Germany.
Filed June 19, 1952, Serial No. 632,650. Published Feb. 24, 1953. Class 44.

575,225. Electric Blankets. The Associated Merchandising Corporation, New York, N. Y.
Filed July 18, 1952, Serial No. 632,712. Published Mar. 10, 1953. Class 21.

575,226. Material To Be Used as an Ingredient for Concrete and Mortar Mixes To Increase Their Plasticity, To Increase Strength, Hardness, and Resistance to Disintegration, and To Render the Same More Water-Proof. The Master Builders Company, Cleveland, Ohio.
Filed July 18, 1952, Serial No. 632,735. Published Feb. 10, 1953. Class 12.

575,227. Oil Burners for Heating Purposes and Water Heating Apparatus. Diesel Oil Burner Corp. of N. Y., Jamaica, N. Y.
Filed July 21, 1952, Serial No. 632,830. Published Feb. 3, 1953. Class 34.

575,228. Stokers. Erie City Iron Works, Erie, Pa.
Filed July 24, 1952, Serial No. 632,981. Published Feb. 3, 1953. Class 34.

575,229. Stove Hood. Roberts Manufacturing Co., Cleburne, Tex.
Filed July 24, 1952, Serial No. 632,997. Published Feb. 3, 1953. Class 34.

575,230. Synthetic Resins and Synthetic Resin Solutions. Reichhold Chemicals, Inc., Detroit, Mich.
Filed July 29, 1952, Serial No. 633,218. Published Dec. 2, 1952. Class 6.

575,231. Pharmaceutical in Tablet Form To Prevent the Retention of Fluid, Etc. Nutrition Research Laboratories, Inc., Chicago, Ill.
Filed July 31, 1952, Serial No. 633,319. Published Feb. 17, 1953. Class 18.

575,232. Ball Bearing Swivels for the Attachment of Lures to a Line. Ouey A. Johnson, doing business under the firm name and style of Sampo Manufacturing Co., San Francisco, Calif.
Filed Aug. 2, 1952, Serial No. 633,423. Published Mar. 10, 1953. Class 22.

575,233. Gas Stoves. Mercantile Stores Company, Inc., Wilmington, Del.
Filed July 24, 1952, Serial No. 633,479. Published Feb. 10, 1953. Class 34.

575,234. Toilet Creams, Masque Preparations, Toilet Powders, Rouge, Eye Make-Up Preparations, Toilet Lotions, Skin Oils, and Deodorants. Barbara Gould, Inc., New York, N. Y.
Filed Aug. 8, 1952, Serial No. 633,602. Published Feb. 10, 1953. Class 51.

575,235. Electric Storage Batteries and Component Parts and Electrolytes Therefor. Electro-Acid Corporation, Houston, Tex.
Filed Aug. 8, 1952, Serial No. 633,611. Published Mar. 3, 1953. Class 21.

575,236. Electrical Insulating Film. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Aug. 8, 1952, Serial No. 633,624. Published Mar. 3, 1953. Class 21.

575,237. Electrical Connectors—Namely, Splicing Sleeves, Splicing Taps, and Dead Ends. Reliable Electric Company, Chicago, Ill.
Filed Aug. 8, 1952, Serial No. 633,631. Published Mar. 3, 1953. Class 21.

575,238. Perfume, Eau de Cologne, Toilet Water, Cologne Stick, Etc. Bourjois, Inc., New York, N. Y.
Filed Aug. 9, 1952, Serial No. 633,647. Published Feb. 10, 1953. Class 51.

575,239. Medicinal Preparation in Tablet Form Providing Hematinic Factors in Synergistic Combination. Colin Pharmacal Co., Inc., Long Island City, N. Y.
Filed Aug. 9, 1952, Serial No. 633,661. Published Feb. 17, 1953. Class 18.

575,240. Medicinal Preparation in Tablet Form for Providing Lipotropic and Oxytropic Factors in Synergistic Therapeutic Combination. Colin Pharmacal Co., Inc., Jersey City, N. J.
Filed Aug. 9, 1952, Serial No. 633,663. Published Feb. 17, 1953. Class 18.

575,241. Abrasive Cutting Powder. The S. S. White Dental Manufacturing Company, Philadelphia, Pa.
Filed Aug. 9, 1952, Serial No. 633,692. Published Mar. 10, 1953. Class 4.

575,242. Steam Boilers, Water Heaters, Stills for Producing Distilled Water From Impure Water, Tank Car Heaters, Conversion Oil Burners, Oil Burning Heaters for Bituminous and Like Materials, and Parts Thereof. Cleaver-Brooks Company, Milwaukee, Wis.
Filed Aug. 16, 1952, Serial No. 633,695. Published Mar. 3, 1953. Class 34.

575,243. Depot Estrogen Solution. E. Fougera and Company, Inc., New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,762. Published Feb. 17, 1953. Class 18.

575,244. Candy Mints. Chlorophyll Products Co., Inc., Fort Wayne, Ind.
Filed Aug. 14, 1952, Serial No. 633,918. Published Mar. 10, 1953. Class 46.

575,245. Canned Tuna Fish. John P. Herber & Company, Inc., also doing business as John P. Herber & Co., Inc., Seattle, Wash.
Filed Aug. 14, 1952, Serial No. 633,933. Published Mar. 10, 1953. Class 46.

575,246. Electric Cooking Ranges. J. Rose & Co., Inc., New York and Brooklyn, N. Y.
Filed Aug. 15, 1952, Serial No. 634,003. Published Mar. 10, 1953. Class 21.

575,247. Storage Batteries. Vitalic Battery Company, Inc., Dallas, Tex.
Filed Aug. 18, 1952, Serial No. 634,129. Published Mar. 10, 1953. Class 21.

575,248. Electrical Resistors. Welwyn Electrical Laboratories Limited, Bedlington Station, Northumberland, England.
Filed Aug. 20, 1952, Serial No. 634,227. Published Mar. 10, 1953. Class 21.

575,249. Gas Stoves, Gas Ranges, Gas Heaters, Gas Space Heaters, Gas Water Heaters. Skelly Oil Company, Kansas City, Mo.
Filed Aug. 27, 1952, Serial No. 634,555. Published Mar. 10, 1953. Class 34.

575,250. Graphited Roller Lubricants, Gear Lubricants, Wheel Bearing Lubricants, Fibrous-Type Lubricants, Motor Oil, Diesel Oil, Winterized Oil, Cotton Picker Oil, and Steam Cylinder Oil. Lubrication Engineers, Inc., Fort Worth, Tex.
Filed Sept. 2, 1952, Serial No. 634,743. Published Feb. 24, 1953. Class 15.

575,251. Watches, Watch Cases, and Watch Movements. The Gruen Watch Company, Cincinnati, Ohio.
Filed Sept. 3, 1952, Serial No. 634,784. Published Mar. 3, 1953. Class 27.

575,252. Medicinal Preparation for the Treatment of Endocrine and Metabolic Diseases. The Upjohn Company, Kalamazoo, Mich.
Filed Sept. 3, 1952, Serial No. 634,816. Published Feb. 17, 1953. Class 18.

575,253. Medicinal Preparation To Be Used as a Local Anesthetic. The Upjohn Company, Kalamazoo, Mich.
Filed Sept. 3, 1952, Serial No. 634,817. Published Feb. 17, 1953. Class 18.

575,254. Baking-Tin Grease Emulsion. "Zeelandia" Fabriek Van Bakkerijgrondstoffen H. J. Doeleman N. V., Zierikzee, Netherlands.
Filed Sept. 23, 1952, Serial No. 635,609. Published Mar. 10, 1953. Class 46.

575,255. Canned Dog and Cat Food, Containing Fresh Meat By-Products, Fresh Ground Bone, Cracked Barley, Etc. Calo Dog Food Company, Inc., Oakland, Calif.
Filed Oct. 17, 1952, Serial No. 636,769. Published Mar. 10, 1953. Class 46.

575,256. Ammoniated Hemicellulose Extract for Use in Feeds. Commercial Solvents Corporation, New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,771. Published Mar. 10, 1953. Class 46.

575,257. Canned Fruits and Vegetables. Taylor & Sledd, Inc., Richmond, Va.
Filed Oct. 17, 1952, Serial No. 636,819. Published Mar. 10, 1953. Class 46.

575,258. Concentrated Food Product Consisting of Milk Solids, Vitamins, Minerals, and Other Essential Ingredients in the Form of a Dry Powder To Be Fed in Its Original State to Livestock and Poultry or Added as a Pre-Mix to Livestock and Poultry Feeds. The Jersee Company, doing business as Security Food Company, Minneapolis, Minn.
Filed Oct. 18, 1952, Serial No. 636,851. Published Mar. 10, 1953. Class 46.

575,259. Glass Salt and Pepper Shakers. The Squirt Company, Beverly Hills, Calif.
Filed Oct. 24, 1952, Serial No. 637,151. Published Mar. 3, 1953. Class 33.

575,260. Bread. Dorothy Lee, doing business as Dottie Lee Bakeries, Amarillo, Tex.
Filed Nov. 13, 1952, Serial No. 638,001. Published Mar. 10, 1953. Class 46.

575,261. Horizontally Pivoted Windows. Tilt-A-Door Corporation, Detroit, Mich.
Filed Nov. 13, 1952, Serial No. 638,022. Published Mar. 10, 1953. Class 12.

575,262. Antibacterial Preparation. Hoffmann-La Roche Inc., Nutley, N. J.
Filed Nov. 21, 1952, Serial No. 638,418. Published Feb. 24, 1953. Class 18.

575,263. Cough Syrups, Lozenges, Medicated Antiseptic Lozenges, Gargles, Nose Drops, Medicinal Ointments, and a Germicidal Wetting Agent To Be Contained in Such Products. Vick Chemical Company, New York, N. Y.
Filed Dec. 1, 1952, Serial No. 638,821. Published Feb. 17, 1953. Class 18.

575,264. Chemotherapeutic Agent Used in the Treatment of Tuberculosis. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Dec. 4, 1952, Serial No. 638,952. Published Feb. 24, 1953. Class 18.

575,265. Medicinal Preparation Used as an Aid in the Assimilation of Ingested Foods for Patients With Deficient Metabolism. B. F. Aacher & Company, Inc., Kansas City, Mo.
Filed Dec. 8, 1952, Serial No. 639,148. Published Feb. 24, 1953. Class 18.

575,266. Medicinal Agent for the Treatment of Abnormal Conditions of the Gastro-Intestinal System in Tablet and Ampule Form. G. D. Searle & Co., Skokie, Ill.
Filed Jan. 7, 1953, Serial No. 640,370. Published Mar. 17, 1953. Class 18.

Service Marks

575,267. Masonry Waterproofing and Weatherproofing Services. Western Waterproofing Company, Detroit, Mich.
Filed Oct. 7, 1947, Serial No. 537,113. Published June 5, 1951. Class 103.

575,268. Fabrication, Preparation, and Treatment of Metals and Metal Products Comprising Flame Cutting, Sawing, Threading, Punching, Bending, Welding, Drilling, Grinding, and Shearing. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Aug. 25, 1948, Serial No. 564,161. Published Mar. 10, 1953. Class 106.

575,269. Fabrication, Preparation, and Treatment of Metals and Metal Products Comprising Flame Cutting, Sawing, Threading, Punching, Bending, Welding, Drilling, Grinding, and Shearing. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Aug. 25, 1948, Serial No. 564,162. Published Mar. 10, 1953. Class 106.

575,270. Instructing Students Through the Medium of Home Study Courses in Radio and Television Theory, Etc. The de Forest-Sanabria Corporation, Chicago, Ill.
Filed Aug. 20, 1949, Serial No. 583,739. Published Mar. 10, 1953. Class 107.

575,271. Lodging Services. Travelodge Corporation, San Diego, Calif.
Filed Oct. 18, 1949, Serial No. 586,501. Published Mar. 10, 1953. Class 100.

575,272. Banking Services—Namely, Financing, Credit and Loan Services, Compound Interest Accounts, Checking Accounts, Special Checking Accounts, Foreign Exchange, Investment Services, Collection Services, Letters of Credit, and Travelers' Checks. The National City Bank of New York, New York, N. Y.
Filed Nov. 15, 1949, Serial No. 587,813. Published Mar. 3, 1953. Class 102.

575,273. Leasing of Railroad, Freight and Express Cars for the Transportation of Commodities of All Types, for the Storage of Commodities in Tanks, Warehouses Preparatory to and as a Part of Their Shipment in Interstate Commerce, and for Crating, Packaging, and Forwarding Commodities. General American Transportation Corporation, Chicago, Ill.
Filed Feb. 23, 1950, Serial No. 592,899. Published Mar. 3, 1953. Class 105.

575,274. Sales Promotion of Goods and Services of Subscribers, Etc. Mrs. America, Inc., New York, N. Y.
Filed Apr. 28, 1950, Serial No. 596,469. Published Mar. 10, 1953. Class 101.

575,275. General Insurance Brokerage and Agency Services, Including Life Insurance, and Real Estate Brokerage and Agency Services, Including Mortgages. Ward & Lake, Inc., Valley Stream, N. Y.
Filed May 2, 1951, Serial No. 613,430. Published Mar. 3, 1953. Class 102.

575,276. General Insurance Brokerage and Agency Services, Including Life Insurance, and Real Estate Brokerage and Agency Services, Including Mortgages. Ward & Lake, Inc., Valley Stream, N. Y.
Filed May 2, 1951, Serial No. 613,431. Published Mar. 3, 1953. Class 102.

575,277. Underwriting Personal Insurance—Namely, Life, Accident, Health, and Group Insurance and Annuities. Connecticut General Life Insurance Company, Hartford, Conn.
Filed May 15, 1951, Serial No. 613,869. Published Mar. 3, 1953. Class 102.

575,278. Banking Services—Namely, Making Mortgage Loans, Accepting Checking and Savings Deposits, Issuing Cashier's Checks and Drafts on New York Banks, and Handling Items for Collection. The Lee County Bank, Fort Myers, Fla.
Filed July 20, 1951, Serial No. 616,714. Published Mar. 10, 1953. Class 102.

575,279. Real Estate Brokerage. John B. Taylor, Liverpool, N. Y.
Filed Aug. 2, 1951, Serial No. 617,268. Published Mar. 3, 1953. Class 102.

575,280. Moving of Household Goods and Automobiles by Van and the Storage of Household Goods and Automobiles. Stevens Brothers, also doing business as Stevens Van Lines, Saginaw, Mich.
Filed Aug. 3, 1951, Serial No. 617,323. Published Mar. 10, 1953. Class 105.

575,281. Engineering Service—Namely, the Designing of Liquefied Petroleum Plants. Drake & Townsend Incorporated, New York, N. Y.
Filed Sept. 25, 1951, Serial No. 619,193. Published Mar. 10, 1953. Class 100.

575,282. Dredging and Construction and Repair Services—Namely, Excavation and Grading, Construction and Repair of Tunnels, Bridges, Dams, Sewers, Conduits, Highways, Airports, Railway Facilities, Power Plants, Foundation Work, and Water Front Structures. The Arundel Corporation, Baltimore, Md.
Filed Nov. 8, 1951, Serial No. 620,994. Published Mar. 10, 1953. Class 103.

575,283. Stimulating and Maintaining Interest in the Baking Industry, Promoting Recognition of the Dignity of the Baker's Service, Etc. Allied Trades of the Baking Industry, New York, N. Y.
Filed Nov. 23, 1951, Serial No. 621,537. Published Mar. 10, 1953. Class 100.

575,284. Bleaching, Mercerising, Dyeing, Printing, and Shrinking of Textile Fabrics. Cold Spring Bleachery, Yardley, Pa.
Filed Feb. 15, 1952, Serial No. 625,001. Published Mar. 10, 1953. Class 106.

575,285. Transportation by Aircraft of Persons, Property, and Mail. Southwest Airways Company, South San Francisco, Calif.
Filed Feb. 15, 1952, Serial No. 625,046. Published Mar. 3, 1953. Class 105.

575,286. Health Information Through the Medium of a Series of Radio Programs Which Present Health Information Through a Mystery-Drama Approach. The Colorado State Medical Society, Denver, Colo.
Filed Feb. 18, 1952, Serial No. 625,007. Published Mar. 10, 1953. Class 107.

575,287. International Freight Forwarding Service. S. A. Innocente Mangili Adriatica Incorporated, New York, N. Y.
Filed Apr. 16, 1952, Serial No. 628,154. Published Mar. 3, 1953. Class 105.

575,288. Dry Docking of All Types and Sizes of Ships. Todd Shipyards Corporation, New York, N. Y.
Filed May 31, 1952, Serial No. 630,553. Published Mar. 3, 1953. Class 105.

575,289. Underwriting of Insurance Against Property Damage and Bodily Injury Caused by Accidents to Boilers, Pressure Vessels, and Machinery. Mutual Boiler and Machinery Insurance Company, Boston, Mass.
Filed June 20, 1952, Serial No. 631,491. Published Mar. 10, 1953. Class 102.

575,290. Management Engineering—Namely, Analysing Management Policies and Methods of Operations of Manufacturing, Etc. George H. Elliott & Company, New York, N. Y.
Filed July 11, 1952, Serial No. 632,421. Published Mar. 10, 1953. Class 101.

Collective Marks

575,291. Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein. The Grand Chapter of Phi Sigma Kappa, Chicago, Ill.
Filed June 26, 1950, Serial No. 599,762. Published Mar. 10, 1953. Class 100.

575,292. Organizing Chapters in a National Collegiate Fraternity, Maintaining Membership Therein, and Furthering the Civic and Educational Ideals Thereof. Beta Theta Pi, Oxford, Ohio.
Filed Dec. 13, 1951, Serial No. 622,425. Published Mar. 3, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

575,293. (Class 39. Clothing.) R. H. Macy & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 26, 1947; amended to application, Supplemental Register, Mar. 9, 1953, Serial No. 545,499.

NEVER-SLIP

Applicant claims ownership of Registration No. 155,575.
For Garters.
Claims use since Oct. 29, 1917.

575,294. (Class 12. Construction Materials.) Mitchell Rand Mfg Corp, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 29, 1949; amended to application, Supplemental Register, Feb. 12, 1953, Serial No. 573,048.

Rubberseal

For Pliable Asphalt Material in Sheet Form, for Roofing, Membrane Waterproofing, and Construction Purposes Generally.
Claims use since Sept. 28, 1926.

575,295. (Class 26. Measuring and Scientific Appliances.) Rulevel Incorporated, Glendale, Calif. Original filed, act of 1946, Principal Register, Mar. 21, 1949; amended to application, Supplemental Register, June 13, 1951, Serial No. 575,786.

Rulevel

For Measuring Instruments Each of Which Consists of a Ruler Having a Spirit Level in Its Midsection Running Longitudinally of Its Measuring Scale and a Spirit Level Adjacent Its End Running Transversally Thereof, and Providing an Instrument With the Ability To Measure, Level, and Plumb.
Claims use since Jan. 8, 1947.

575,296. (Class 46. Foods and Ingredients of Foods.) Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Original filed, act of 1946, Principal Register, Sept. 28, 1949; amended to application, Supplemental Register, Feb. 2, 1952, Serial No. 585,440.

TUNA-MAID
PATTIES

The word "Patties" separately is disclaimed.
For Prepared Fish in Sausage Form.
Claims use since on or about Aug. 30, 1949.

575,297. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Farmer Feeder Company, Inc., Cambridge City, Ind. Original filed, act of 1946, Principal Register, Oct. 29, 1949; amended to application, Supplemental Register, Nov. 13, 1950, Serial No. 587,018.



The drawing is lined for shading only. The word "Seeder" is disclaimed apart from the mark as shown.
For Broadcast Seeders.
Claims use since Nov. 11, 1947.

575,298. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Marsh Stencil Machine Company, Belleville, Ill. Original filed, act of 1946, Principal Register, Dec. 19, 1949; amended to application, Supplemental Register, Jan. 28, 1953, Serial No. 589,582.

MARSH

Applicant claims ownership of Registrations Nos. 422,854, 423,117, and others.
For Gummed Tape Dispensing Machines.
Claims use since Nov. 28, 1949.

575,299. (Class 37. Paper and Stationery.) C. W. Golden, doing business as Golden Lithograph Company, San Francisco, Calif. Original filed, act of 1946, Principal Register, Dec. 27, 1949; amended to application, Supplemental Register, Dec. 19, 1950, Serial No. 589,970.

GOLDEN AD-PAD

For Partially Printed Advertising Blanks in Pad Form.
Claims use since Dec. 1, 1949.

575,300. (Class 38. Prints and Publications.) The Hopp Press, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 19, 1949; amended to application, Supplemental Register, Mar. 29, 1951, Serial No. 590,636.

"Multiple Unit"

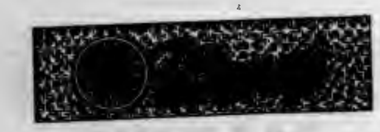
For Printed Price Cards and Printed Price Tags.
Claims use since Mar. 16, 1949.

575,301. (Class 16. Protective and Decorative Coatings.) Hine & Co., Inc., Cleveland, Ohio, assignor to End-O-Rust Inc., a corporation of Ohio. Original filed, act of 1946, Principal Register, Jan. 24, 1950; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 591,367.

END-O-RUST

For Metal Protective Paint—Namely, a Rust Preventative, Inhibitor, and Arrester.
Claims use since Mar. 1, 1949.

575,302. (Class 46. Foods and Ingredients of Foods.) Chun-Wong, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 30, 1950; amended to application, Supplemental Register, Dec. 15, 1951, Serial No. 594,887.



A translation of the Chinese character shown in the circle is "Wong's" and the lining on the drawing indicates the colors red and yellow.
For Frozen Foodstuffs—Namely, Pork Chop Suey, Chicken Chop Suey, Sweet and Sour Pork, Fried Rice, Egg Foo Young, Fried Noodles and Soy Sauce.
Claims use since Feb. 21, 1950.

575,303. (Class 26. Measuring and Scientific Appliances.) C. S. Ashcraft Mfg. Co., Long Island City, N. Y. Original filed, act of 1946, Principal Register, Apr. 13, 1950; amended to application, Supplemental Register, Dec. 19, 1951, Serial No. 595,648.

HYDRO-ARC

For Electric Projection Lamps Specifically Designed for Use With Motion Picture Projectors.
Claims use since January 1950.

575,304. (Class 2. Receptacles.) Atlantic Plastics Company, Inc., Boston, Mass. Original filed, act of 1946, Principal Register, June 20, 1950; amended to application, Supplemental Register, Nov. 12, 1952, Serial No. 599,413.

FLEX-O-WALL

For Plastic Covered Boxes.
Claims use since May 23, 1950.

575,305. (Class 39. Clothing.) L. L. Berger, Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Nov. 28, 1950; amended to application, Supplemental Register, Nov. 28, 1952, Serial No. 606,999.

L.L.BERGER Inc. BUFFALO

For Men's Neckties.
Claims use since Oct. 29, 1949.

575,306. (Class 46. Foods and Ingredients of Foods.) The Appleton Corporation, Appleton, Wis. Original filed, act of 1946, Principal Register, Feb. 5, 1951; amended to application, Supplemental Register, Mar. 26, 1953, Serial No. 609,624.

Big Wheel

Applicant claims ownership of Registration No. 285,459.
For Cheese.
Claims use since Aug. 26, 1950.

575,307. (Class 38. Prints and Publications.) The Dorville Corporation, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Feb. 17, 1951; amended to application, Supplemental Register, Dec. 22, 1952, Serial No. 610,602.

BOOK CRAFTERS

For School and College Year Books.
Claims use since Feb. 9, 1951.

575,308. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) John Heathcoat and Company Limited, Tiverton, England, assignor to John Heathcoat & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 14, 1951; amended to application, Supplemental Register, Nov. 5, 1952, Serial No. 611,270.



The portrait is that of the late John Heathcoat, the founder of the original British firm. Applicant claims ownership of British Registration No. 683,614, dated Oct. 31, 1949; and United States Registrations Nos. 89,747, 344,735, and 441,974.
For Nets and Veilings, All Being Textile Piece Goods.

575,309. (Class 10. Fertilizers.) Hi-Yield Fertilizer Co., Bonham, Tex. Original filed, act of 1946, Principal Register, Mar. 26, 1951; amended to application, Supplemental Register, Mar. 10, 1952, Serial No. 611,783.

Blackland BOOSTER

For Plant Food for Use as a Fertilizer.
Claims use since Feb. 19, 1951.

575,310. (Class 2. Receptacles.) Argos Products Company, Inc., Genoa, Ill. Original filed, act of 1946, Principal Register, Apr. 13, 1951; amended to application, Supplemental Register, Jan. 21, 1953, Serial No. 612,578.

Television tube caddy

For Plastic Fabric-Covered Cabinet-Type Boxes for Holding and Carrying a Plurality of Electronic Tubes.
Claims use since Jan. 26, 1951.

575,311. (Class 12. Construction Materials.) The W. E. Dunn Manufacturing Company, Holland, Mich. Filed Apr. 13, 1951, Serial No. 612,594.

DUNBEAM

The word "Beam" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 231,318, 279,180, and 165,086.
For Concrete Joists.
Claims use since Feb. 1, 1950.

575,312. (Class 40. Fancy Goods, Furnishings, and Notions.) Douglas Inc., Palm Beach, Fla. Original filed, act of 1946, Principal Register, Apr. 18, 1951; amended to application, Supplemental Register, Oct. 18, 1952, Serial No. 612,795.

"SHELL-PAK"

For Natural Sea Shells To Be Used as Buttons and Decorative Trimmings for Wearing Apparel.
Claims use since Feb. 28, 1951.

575,313. (Class 21. Electrical Apparatus, Machines, and Supplies.) Newman Industries Limited, Yate, Bristol, England. Original filed, act of 1946, Principal Register, Apr. 28, 1951; amended to application, Supplemental Register Mar. 23, 1953, Serial No. 613,305.

Newman

Applicant claims ownership of British Registration No. 625,095, dated Sept. 3, 1943.
For Electric Motors.
Claims use since 1938 in Great Britain, and use in commerce between Great Britain and the United States since Apr. 28, 1950.

575,314. (Class 39. Clothing.) Wallach's, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 2, 1951; amended to application, Supplemental Register, Oct. 29, 1952, Serial No. 613,429.

TAHITI TWEED

Applicant disclaims the word "Tweed" apart from the mark as a whole.
For Men's Clothing—Namely, Men's Summer Suits.
Claims use since Jan. 24, 1951.

575,315. (Class 2. Receptacles.) O. B. Andrews Company, Chattanooga, Tenn. Original filed, act of 1946, Principal Register, May 4, 1951; amended to application, Supplemental Register, Mar. 19, 1953, Serial No. 613,486.

Scoop

For Folding Cartons Formed From Paperboard.
Claims use since Mar. 2, 1951.

575,316. (Class 40. Fancy Goods, Furnishings, and Notions.) Roop & Babb Co., Columbus, Ohio. Original filed, act of 1946, Principal Register, July 9, 1951; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 616,247.

BUT-N-DOWN

For Fabric Tie Holder To Be Pressed on the Back of a Necktie To Secure the Necktie to a Shirt Button.
Claims use since June 5, 1951.

575,317. (Class 2. Receptacles.) National Laboratories, Inc., Toledo, Ohio. Original filed, act of 1946, Principal Register, July 11, 1951; amended to application, Supplemental Register, Oct. 21, 1952, Serial No. 616,326.

Koaster-Kit

The word "Kit" is disclaimed.
For Plastic Case for Receiving a Container of Liquid Detergent for Closet Bowls, Urinals, and the Like, and Also for Receiving a Swab.
Claims use since June 13, 1951.

575,318. (Class 39. Clothing.) The Miller Shoe Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Aug. 14, 1951; amended to application, Supplemental Register, Feb. 10, 1953, Serial No. 617,670.

Sofstep

For Women's and Misses' Leather Shoes.
Claims use since July 3, 1951.

575,319. (Class 10. Fertilizers.) Atkins & Durbrow, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 31, 1951; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 618,280.



The drawing is lined for red and blue. Applicant claims ownership of Registrations Nos. 278,756, 294,771, and others.
For Fertilizers.
Claims use since May 19, 1951.

575,320. (Class 39. Clothing.) I. Miller & Sons, Inc., Long Island City, N. Y. Original filed, act of 1946, Principal Register, Sept. 4, 1951; amended to application, Supplemental Register, Feb. 12, 1953, Serial No. 618,363.

Taper-Toe

For Ladies' and Girls' Shoes.
Claims use since Aug. 17, 1951.

575,321. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Columbia Mills, Inc., Syracuse, N. Y. Original filed, act of 1946, Principal Register, Sept. 8, 1951; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 618,533.

Lo-Kost

For Book Binding Fabric.
Claims use since June 29, 1951.

575,322. (Class 39. Clothing.) Nirenberg & Salzman, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 13, 1951; amended to application, Supplemental Register, Mar. 9, 1953, Serial No. 618,754.

TroyCraft

For Men's Dress and Sport Shirts.
Claims use since July 1951.

575,323. (Class 32. Furniture and Upholstery.) Royal Bedding Company, Buffalo, N. Y. Original filed, act of 1946, Principal Register, Oct. 5,1951; amended to application, Supplemental Register, Sept. 25, 1952, Serial No. 619,650.

"EZY-TUK"

For Mattress Ensembles and Parts Thereof—Namely, Mattresses and Associated Mattress Supporting Elements in the Nature of Either Box Springs or of Rigid Frames.
Claims use since Aug. 14, 1951.

575,324. (Class 46. Foods and Ingredients of Foods.) Dent's English Bacon Company Limited, Winnipeg, Manitoba, Canada. Original filed, act of 1946, Principal Register, Oct. 8, 1951; amended to application, Supplemental Register, Sept. 8, 1952, Serial No. 619,609.



The shading represents yellow. Applicant claims ownership of Canadian Registration No. N. S. 3,308, dated June 29, 1934.
For Fresh, Salt, and Pickled Pork, Ham, Bacon, and Sausages.

575,325. (Class 46. Foods and Ingredients of Foods.) Adolfo Quirós e Hijos, Vigo, Spain. Original filed, act of 1946, Principal Register, Oct. 18, 1951; amended to application, Supplemental Register, July 29, 1952, Serial No. 620,129.

QUIRÓS

Applicant claims ownership of Spanish Registration No. 100,346, dated Dec. 7, 1934.
For Canned Fish and Canned Shell-Fish.

575,326. (Class 39. Clothing.) Brocklehurst-Whiston Amalgamated Limited, London, England. Filed Nov. 26, 1951, Serial No. 621,654.

Brocklehurst

For Neckties, Handkerchiefs, Scarves, Dressing Gowns, Pyjamas, Undervests, and Underpants.
Claims use since May 30, 1950 in the United Kingdom; and since Aug. 5, 1950 in commerce between Great Britain and the United States.

575,327. (Class 46. Foods and Ingredients of Foods.) Virginia Dare Extract Co., Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Dec. 7, 1951; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 622,236.

HERBLEND

For Food Flavoring for Flavoring Meat, Fish and Fowl, Soups, Gravies, and Vegetables, the Principal Ingredients of Which Are Thyme, Basil, Sage, Rosemary, Marjoram, Spices, Mono Sodium Glutamate, and Salt.
Claims use since Nov. 9, 1951.

575,328. (Class 43. Thread and Yarn.) Futurity Thread Company, Newton, Mass. Original filed, act of 1946, Principal Register, Dec. 11, 1951; amended to application, Supplemental Register, Feb. 20, 1953, Serial No. 622,330.

ROT-GUARD PRUF

Applicant claims ownership of Registration No. 417,251.
For Thread, Including Welt Thread, McKay Thread, Shuttle Thread, Lock-Stitch Thread, and Patching Thread All Containing Copper Salts.
Claims use since Oct. 31, 1951.

575,329. (Class 52. Detergents and Soaps.) Robert F. Stearns, doing business as Stearns' Enterprises, Arlington, Mass. Original filed, act of 1946, Principal Register, Dec. 11, 1951; amended to application, Supplemental Register, Mar. 16, 1953, Serial No. 622,364.

STEARNS'

For Composition for Cleaning and Restoring Suede Finished Materials.
Claims use since June 1950.

575,330. (Class 39. Clothing.) Oxford Boyswear, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 12, 1951; amended to application, Supplemental Register, Oct. 22, 1952, Serial No. 622,403.



For Boys' Suits, Pants, Slacks, and Jackets.
Claims use since July 1, 1951.

575,331. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Diamond Match Company, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 18, 1951; amended to application, Supplemental Register, Oct. 28, 1952, Serial No. 622,640.

BAR-STIX

For Drink Stirrers Made of Wood.
Claims use since Oct. 15, 1951.

575,332. (Class 2. Receptacles.) Gulf States Paper Corporation, Tuscaloosa, Ala. Original filed, act of 1946, Principal Register, Feb. 8, 1952; amended to application, Supplemental Register, Sept. 23, 1952, Serial No. 624,685.

E-Z OPENER

Applicant claims ownership of Registration No. 227,085.
For Paper Bags.
Claims use since Aug. 1, 1902.

575,333. (Class 32. Furniture and Upholstery.) Worldsbest Industries, Inc., Cudahy, Wis. Original filed, act of 1946, Principal Register, Feb. 15, 1952; amended to application, Supplemental Register, Feb. 18, 1953, Serial No. 625,056.

WORLDSBEST

For Chairs.
Claims use since Jan. 28, 1952.

575,334. (Class 39. Clothing.) Schwarz & Co., Newark, N. J. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Jan. 21, 1953, Serial No. 625,132.



For Men's and Boys' Undergarments and Outer Garments—Namely, Athletic Shirts, T Shirts, and Polo Shirts.
Claims use since November 1951.

575,335. (Class 39. Clothing.) Schwarz & Co., Newark, N. J. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Jan. 21, 1953, Serial No. 625,133.

SCHWARZ SHORTS

For Men's and Boys' Undergarments—Namely, Shorts.
Claims use since November 1951 .

575,336. (Class 39. Clothing.) Schwarz & Co., Newark, N. J. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Jan. 21, 1953, Serial No. 625,134.

TUF-BREEF

The drawing is lined for the color red.
For Men's and Boys' Undergarments—Namely, Shorts.
Claims use since November 1951.

575,337. (Class 39. Clothing.) Pagoda Knitting Mills, Inc., Reading, Pa. Original filed, act of 1946, Principal Register, Mar. 5, 1952; amended to application, Supplemental Register, Jan. 16, 1953, Serial No. 626,000.

Mt. Penn

For Women's Hosiery.
Claims use since Dec. 20, 1951.

575,338. (Class 52. Detergents and Soaps.) John B. Hockensmith, sometimes doing business as Johns Hollywood Salon or Johns Hollywood Beauty Salon, Knoxville, Tenn. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, Mar. 4, 1953, Serial No. 626,377.

JOHNS

For Shampoos.
Claims use since Jan. 26, 1952.

575,339. (Class 38. Prints and Publications.) Intelligence Publishing Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, Mar. 4, 1953, Serial No. 626,380.

INTELLIGENCE DIGEST

For Magazines.
Claims use since Dec. 1, 1947.

575,340. (Class 16. Protective and Decorative Coatings.) Samuel Cabot Incorporated, Boston, Mass. Original filed, act of 1946, Principal Register, Mar. 19, 1952; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 626,654.

RANCH HOUSE HUES

For Stains for Exterior Uses.
Claims use since Oct. 19, 1950.

575,341. (Class 39. Clothing.) Michaels, Stern & Company, Incorporated, Rochester, N. Y. Original filed, act of 1946, Principal Register, Mar. 19, 1952; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 626,688.

ABERDEEN PRIDE

For Men's Suits, Coats, and Trousers.
Claims use since Feb. 22, 1952.

575,342. (Class 16. Protective and Decorative Coatings.) Fisher, Thorsen & Company, Inc., Portland, Oreg. Original filed, act of 1946, Principal Register, Mar. 15, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 626,717.

ADDATUBE

For Pigments Packaged in Collapsible Tubes for Coloring Paints.
Claims use since Feb. 4, 1952.

575,343. (Class 39. Clothing.) Joseph Miarachi, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 22, 1952; amended to application, Supplemental Register, Mar. 18, 1953, Serial No. 626,895.

Mr. Boston Shoe

For Men's and Boys' Shoes.
Claims use since February 1951.

575,344. (Class 26. Measuring and Scientific Appliances.) Zylite Products Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 629,138.

PEARL-LACE

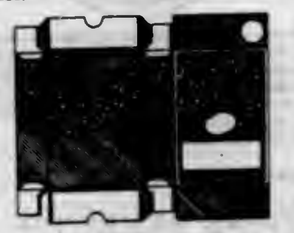
For Eyeglass Frames.
Claims use since Feb. 14, 1952.

575,345. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Finney Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, May 10, 1952; amended to application, Supplemental Register, Dec. 13, 1952, Serial No. 629,482.

CO-Lateral

For Television, Broadcasting and Receiving Antennas and Parts Therefor.
Claims use since Aug. 14, 1950.

575,346. (Class 52. Detergents and Soaps.) Purex Corporation, Ltd., South Gate, Calif. Original filed, act of 1946, Principal Register, May 13, 1952; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 629,621.



The drawing is lined to indicate the colors green-blue, gold, and red.
For Powdered Cleanser for General Household Use and Also Certain Commercial Uses, Such as in Laundries and in the Cleaning of Dairy Equipment.
Claims use since Dec. 14, 1951.

575,347. (Class 39. Clothing.) Rivoli Corset Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 18, 1952; amended to application, Supplemental Register, Mar. 16, 1953, Serial No. 631,376.

MESH-EZE

For Corsets, Brassières, and Girdles.
Claims use since Mar. 4, 1952.

575,348. (Class 17. Tobacco Products.) P. Lorillard Company, New York, N. Y. Original filed, act of 1946, Principal Register, July 16, 1952; amended to application, Supplemental Register, Feb. 18, 1953, Serial No. 632,623.



The drawing is not lined for color. Applicant claims ownership of Registration No. 375,644.
For Cigarettes.
Claims use since Jan. 16, 1952.

575,349. (Class 16. Protective and Decorative Coatings.) Canadian Radium & Uranium Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, July 30, 1952; amended to application, Supplemental Register, Mar. 12, 1953, Serial No. 633,255.

MAPGLO

For Fluorescent Lacquer.
Claims use since Mar. 7, 1952.

575,350. (Class 21. Electrical Apparatus, Machines, and Supplies.) Charles E. Warnell, Portland, Oreg. Original filed, act of 1946, Principal Register, Aug. 26, 1952; amended to application, Supplemental Register, Nov. 10, 1952, Serial No. 634,826.

address-o-lite

Applicant claims ownership of Registration No. 373,115.
For Electrically Illuminated Clip Boards for Holding Memorandum Pads and the Like.
Claims use since Aug. 10, 1950.

575,351. (Class 38. Prints and Publications.) Drake Publishing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 11, 1952; amended to application, Supplemental Register, Mar. 23, 1953, Serial No. 635,125.

Premium Club

For Periodical Published Quarterly, Bi-Monthly, or Monthly.
Claims use since Nov. 1, 1951.

575,352. (Class 5. Adhesives.) Louis R. Schuller, doing business as Lea A-V Service, Albert Lea, Minn. Filed Oct. 3, 1952, Serial No. 636,149.

STYX

For Wax Compound in Stick Form Used as a Mounting Adhesive.
Claims use since June 5, 1951.

575,353. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,686.

BENEDICT

For Endoscopic Instruments — Namely, Gastroscopes, and components Thereof.
Claims use since September 1948.

575,354. (Class 39. Clothing.) Hardwick Woolen Mills, Inc., Cleveland, Tenn. Filed Dec. 10, 1952, Serial No. 639,274.

FREMONT

For Men's, Students', Cadets', and Boys' Suits, Topcoats, Sport Coats, and Slacks.
Claims use since Jan. 8, 1951.

575,355. (Class 22. Games, Toys, and Sporting Goods.) The American Import Company, San Francisco, Calif. Filed Jan. 29, 1953, Serial No. 641,486.

BESTMADE

Applicant claims ownership of Registration No. 240,532.
For Fishing Baskets, Fishing Hooks, Fishing Lines, Fishing Gut, and Fishing Gut Leaders.
Claims use since Jan. 2, 1925.

Service Mark

575,356. (Class 100. Miscellaneous.) Super Market Institute, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 8, 1950; amended to application, Supplemental Register, Oct. 4, 1951, Serial No. 601,959.



For Conducting Research for Its Members Relating Both to Their Industrial and Merchandising Problems as Saving Operational Costs, Improving Service and Expansion and to Their Personnel Problems Relating to Pension, Profit Sharing and Incentive Plans; and Advising the Members as to the Results Thereof.
Claims use since January 1949.

TRADE-MARK REGISTRATIONS RENEWED

90,387. "SCHLITZ" AND REPRESENTATION OF GLOBE. Registered Mar. 4, 1913. Jos. Schlitz Brewing Company. Re-renewed Mar. 4, 1953, to Jos. Schlitz Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Lager Beer. Class 48.

92,096. REPRESENTATION OF DESIGN OF FOUR PARALLEL LINES. Registered June 17, 1913. Mergenthaler Linotype Company, New York, N. Y. Re-renewed June 17, 1953, to Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York. Matrices. Class 23.

92,234. "ADEX" ETC. Registered June 24, 1913. Walter E. Kriel. Re-renewed June 24, 1953, to Adex Manufacturing Company, Baltimore, Md., a corporation of Maryland. Adhesive Sizing, Adhesive Gums, and Adhesive Pastes. Class 5.

93,076. COLLINS & CO. Registered Aug. 19, 1913. The Collins Company, Collinsville, Conn., a corporation of Connecticut. Re-renewed Aug. 19, 1953. Axes, Hatchets, Adzes, Bush-Hooks, Machetes, Etc. Class 23.

297,562. NON RIDE "DUO-FLEX." Registered Sept. 20, 1932. Kabo Corset Company, Chicago, Ill. Renewed Sept. 20, 1952, to Kops Bros., Inc., New York, N. Y., a corporation of New York. Foundation Garments, Brasselettes—Namely, a Type of Skeleton Brassière; Girdles, Stepins, Corsets, and Corselettes. Class 39.

299,973. RED CIRCLE DESIGN. Registered Jan. 3, 1933. Stant Manufacturing Company. Renewed Jan. 3, 1953, to Stant Manufacturing Company, Inc., Connersville, Ind., a corporation of Indiana. Vehicle Radiator and Gasoline Filler Caps. Class 19.

300,187. HEPATRAT. Registered Jan. 10, 1933. Nordmark-Werke G. m. b. H., Hamburg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Jan. 10, 1953. Medicinal Preparation for Use in the Treatment of Pernicious Anaemia. Class 18.

300,188. SOLUGA. Registered Jan. 10, 1933. Nordmark-Werke G. m. b. H., Hamburg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Jan. 10, 1953. Medicinal Dietetic Food Preparation for Use in the Treatment of Exhaustion, Etc. Class 18.

300,355. "NORDMARK" AND DESIGN. Registered Jan. 17, 1933. Nordmark-Werke G. m. b. H., Hamburg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Jan. 17, 1953. Liver Food Preparations and Tonic Food Preparations, Malt and Fodder. Class 46.

300,932. SANCTOLITE. Registered Feb. 14, 1933. Will & Baumer Candle Co., Inc., Syracuse, N. Y., a corporation of New York. Renewed Feb. 14, 1953. Candles. Class 15.

300,935. "NORDMARK" AND DESIGN. Registered Feb. 14, 1933. Nordmark-Werke G. m. b. H., Hamburg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 14, 1953. Medicinal Preparations for Use in the Treatment of Diseases of the Liver, Diseases of the Blood, Etc. Class 18.

300,979. LYMAN. Registered Feb. 14, 1933. The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Renewed Feb. 14, 1953, to United States Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey. Barb Wire. Class 13.

301,031. DUOFOAM. Registered Feb. 14, 1933. C. D. Burchard, Inc., New York, N. Y. Renewed Feb. 14, 1953, to Ortho Pharmaceutical Corporation, Raritan, N. J., a corporation of New Jersey. Antiseptics. Class 18.

301,052. KATIONORMA. Registered Feb. 14, 1933. Nordmark-Werke G. m. b. H., Hamburg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 14, 1953. Medicinal Preparations for the Treatment of Bronchial Asthma, Exudative Diathesis, Hay Fever, and Diseases of the Skin. Class 18.

301,062. BLAZE O' GOLD. Registered Feb. 14, 1933. Mor-Pak Preserving Corporation, Stockton, Calif. Renewed Feb. 14, 1953, to Mor-Pak Preserving Corporation, San Francisco, Calif., a corporation of Nevada. Canned Fruits. Class 46.

301,300. OTIS. Registered Feb. 28, 1933. Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Renewed Feb. 28, 1953, to Otis Elevator Company, New York, N. Y., a corporation of New Jersey. Door Closers and Door Hangers. Class 13.

301,301. "OTIS" AND DESIGN. Registered Feb. 28, 1933. Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Renewed Feb. 28, 1953, to Otis Elevator Company, New York, N. Y., a corporation of New Jersey. Door Closers. Class 13.

301,546. SNOW WHITE. Registered Mar. 7, 1933. Morton Manufacturing Corporation, Lynchburg, Va., a corporation of Virginia. Renewed Mar. 7, 1953. Hair Beautifying Cream. Class 51.

301,706. ALADDIN. Registered Mar. 14, 1933. McCrory Stores Corporation, New York, N. Y., a corporation of Delaware. Renewed Mar. 14, 1953. Razor Blades. Class 23.

301,709. "OTIS" AND DESIGN. Registered Mar. 14, 1933. Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Renewed Mar. 14, 1953, to Otis Elevator Company, New York, N. Y., a corporation of New Jersey. Dumb Waiters and Guide Rail Lubricators. Class 23.

301,710. OTIS. Registered Mar. 14, 1933. Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Renewed Mar. 14, 1953, to Otis Elevator Company, New York, N. Y., a corporation of New Jersey. Dumb Waiters and Guide Rail Lubricators. Class 23.

301,877. "OTIS" AND DESIGN. Registered Mar. 21, 1933. Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Renewed Mar. 21, 1953, to Otis Elevator Company, New York, N. Y., a corporation of New Jersey. Electric Motors, Electric Generators; Switching Equipment Used in Connection With Electric Elevators, Dumb Waiters, Etc. Class 21.

301,878. OTIS. Registered Mar. 21, 1933. Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Renewed Mar. 21, 1953, to Otis Elevator Company, New York, N. Y., a corporation of New Jersey. Electric Motors, Electric Generators; Switching Equipment Used in Connection With Electric Elevators, Etc. Class 21.

302,085. FINESSE. Registered Mar. 28, 1933. Nashua Manufacturing Company, Nashua, N. H. Renewed Mar. 28, 1953, to Textron Incorporated, Providence, R. I., a corporation of Rhode Island. Cotton Piece Goods. Class 42.

302,127. MYSTIC MIRACLE. Registered Mar. 28, 1933. Metal Textile Corporation, doing business as Mystic Mit Makers, West Orange, N. J. Renewed Mar. 28, 1953, to Metal Textile Corporation, Roselle, N. J., a corporation of Delaware. Metallic Abrasive Pot Cleaners. Class 4.

302,396. "SAMBO" AND DESIGN. Registered Apr. 18, 1933. Southern Coal Company, Inc., Memphis, Tenn. Renewed Apr. 18, 1953, to Harlan-Wallins Coal Corporation, Verda, Ky., a corporation of Delaware. Coal. Class 1.

302,521. CHORE DAD. Registered Apr. 25, 1933. Metal Textile Corporation, West Orange, N. J. Renewed Apr. 25, 1953, to Metal Textile Corporation, Roselle, N. J., a corporation of Delaware. Metallic Abrasive Scouring Pads. Class 4.

302,917. SPRINKLARM. Registered May 2, 1933. Rockwood Sprinkler Company of Massachusetts. Renewed May 2, 1953, to Rockwood Sprinkler Company, Worcester, Mass., a corporation of Massachusetts. Pressure Operated Valves for Operating Alarms for Sprinkler Systems. Class 13.

303,192. THE WORLD ALMANAC. Registered May 16, 1933. New York World-Telegram Corporation, New York, N. Y., a corporation of New York. Renewed May 16, 1953. Periodical. Class 38.

303,286. AUTO-KING. Registered May 16, 1933. Marshall-Wells Company, Duluth, Minn., a corporation of New Jersey. Renewed May 16, 1953. Lubricating Oil. Class 15.

303,423. U-LIKA-ME-? Registered May 23, 1933. Alexander Marketing Company, San Benito, Tex., a corporation of Texas. Renewed May 23, 1953. Fresh Vegetables. Class 46.

303,719. MALABAN. Registered June 6, 1933. Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed June 6, 1953. Textile Rugs and Carpets. Class 42.

303,720. OMAR. Registered June 6, 1933. Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed June 6, 1953. Textile Rugs and Carpets. Class 42.

303,765. JR. TOWN. Registered June 6, 1933. Arkwright Merchandising Corporation, New York, N. Y., a corporation of New York. Renewed June 6, 1953. Coats, Suits, Pants, Sweaters, Hats, Caps, Etc. Class 39.

304,090. MAJOR HOOPLE. Registered June 20, 1933. Nea Service, Inc., Cleveland, Ohio, a corporation of Delaware. Renewed June 20, 1953. Comic Strip. Class 38.

304,192. "MOXIE" AND DESIGN. Registered June 27, 1933. The Moxie Company, Boston, Mass. Renewed June 27, 1953, to The Moxie Company, Needham Heights, Mass., a corporation of Massachusetts. Nonalcoholic, Maltless Carbonated Beverages Sold as Soft Drinks, and Extracts and Syrups Therefor. Class 45.

304,245. WALKER'S BOURBON WHISKY. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Renewed June 27, 1953, to Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Whisky. Class 49.

304,255. "JAMCO" ETC. AND DESIGN. Registered June 27, 1933. Jacob A. Melnick, Brooklyn, N. Y. Renewed June 27, 1953, to J. A. Melnick Company, Incorporated, New York, N. Y., a corporation of New York. Window Frames, Sash, Doors, and Trim. Class 12.

304,353. MISS DEB. Registered July 4, 1933. Style-Craft Lingerie, Inc., New York, N. Y., a corporation of New York. Renewed July 4, 1953. Panties, Dansettes, Chemises, Nightgowns, Pajamas, and Slips. Class 39.

304,558. "BEE" COOL. Registered July 11, 1933. Bee Hat & Cap Co. Renewed July 11, 1953, to Bee Hat Company, St. Louis, Mo., a corporation of Missouri. Men's and Boys' Hats and Caps. Class 39.

304,879. SECTIONITER. Registered July 18, 1933. Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts. Renewed July 18, 1953. Loose Leaf Binders. Class 37.

305,003. UTICA CLUB. Registered July 25, 1933. The West End Brewing Company, Utica, N. Y., a corporation of New York. Renewed July 25, 1953. Malt Beverages With Not More Than the Legal Alcoholic Content—Namely, Beer, Ale, Stout, Etc. Class 48.

305,004. REPRESENTATION OF MAN WITH BOTTLES LINED FOR RED. Registered July 25, 1933. The West End Brewing Company, Utica, N. Y., a corporation of New York. Renewed July 25, 1953. Malt Beverages With Not More Than the Legal Alcoholic Content—Namely, Beer, Ale, Stout, Bock, Etc. Class 48.

305,349. PINAUD. Registered Aug. 15, 1933. Pinaud, Inc. Renewed Aug. 15, 1953, to Ed. Pinaud, Inc., New York, N. Y., a corporation of New York. Toilet Soaps, Shaving Soap Sticks, and Shaving Soap Cream. Class 51.

305,361. "AMBROSIA POWDER" AND DESIGN. Registered Aug. 15, 1933. Hinze Ambrosia, Inc., New York, N. Y., a corporation of New York. Renewed Aug. 15, 1953. Face Powders. Class 51.

305,393. "GOLDEN BEAR" AND DESIGN. Registered Aug. 15, 1933. Golden Bear Coffee Co., Ltd. Renewed Aug. 15, 1953, to Breakfast Club Coffee, Inc., Los Angeles, Calif., a corporation of California. Coffee and Tea. Class 46.

305,484. ZONIT. Registered Aug. 15, 1933. Walter Kidde & Company, Inc., New York, N. Y. Renewed Aug. 15, 1953, to Walter Kidde & Company, Inc., Belleville, N. J., a corporation of New York. Fire Detecting Systems Comprising Electrically Actuated Alarm, Etc. Class 21.

305,645. ARKADY. Registered Aug. 22, 1933. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Aug. 22, 1953. Dough Improver, i. e., a Composition or Compound Used as an Ingredient of Bread To Improve the Quality Thereof. Class 46.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

407,434. "KING GEORGE IV" & DESIGN. Registered June 6, 1944. The Distillers Agency Limited, Edinburgh, Scotland. Scotch Whisky. Class 49. The drawing is hereby amended to appear as follows:



551,363. "WHERE GOOD CONNECTIONS COUNT." Registered Nov. 27, 1951. Perfecting Service Company, Charlotte, N. C. Servicing of Connection Devices—Namely, the Servicing and Repairing of Rotary Unions and Flexible Metal Hose. Class 103. Corrected as follows: In the statement, line 10, "unions" should be *connections*.

568,722. "DELICIOUS DELAWARE PUNCH" AND DESIGN. Registered Jan. 6, 1953. The Delaware Punch Company of America, San Antonio, Tex. Non-Alcoholic Maltless Beverages Sold as Soft Drinks, Etc. Class 45. Corrected as follows: In the certificate, line 3; and in the statement, line 3, "New Jersey" should be *Delaware*.

570,992. "STEER-BRAND" AND DESIGN. Registered Feb. 24, 1953. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Butchers' Kraft Wrapping Paper. Class 37. Corrected as follows: In the statement, column 2, lines 9 and 10, "Reg. No. 426,190, granted December 17, 1946, and also" should be deleted.

572,577. BAKER'S. Registered Mar. 31, 1953. The Baker Castor Oil Company, Jersey City, N. J. Castor Oil, Etc. Class 6. Corrected as follows: In the statement, line 2, after "laws of," *the State of New Jersey* and *domiciled at* should be inserted.

Erratum

In the notice of republication under section 12(c) of the Trade-Mark Act of 1946, of Registration No. 226,737, appearing in the OFFICIAL GAZETTE of February 17, 1948, at page 432, for "Preparations for the treatment of indigestion" read *Preparations for the treatment of indigestion, uric-acid conditions, constipation, headaches due to liver disorders, excessive use of alcoholic beverages; laxative preparations, diuretic preparations, and eliminant preparations.*

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 92,219. Registered June 24, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

GLYCO NEATS

The word "Neats" is disclaimed apart from the mark as shown.

For Oil Preparation for Softening Leather.
Claims use since 1900.

Reg. No. 200,685. Registered July 7, 1925. (Classified in Class 46.) The J. R. Watkins Company, Winona, Minn. Republished by "4711" Limited, New York, N. Y., a corporation of New York.
See this number in Class 46 for goods and mark.
Claims use since Feb. 28, 1925.

CLASS 10

FERTILIZERS

Reg. No. 301,415. Registered Feb. 28, 1933. Tennessee Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

Soil-Prep

For Fertilizers and Soil Conditioners.
Claims use since Oct. 19, 1932.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 126,507. Registered Sept. 16, 1919. A. Allan & Son, Harrison, N. J. Republished by Arthur Pforr, doing business as A. Allan & Son, Harrison, N. J.



For Non-Ferrous Alloys—Viz., Bearing-Bronze, Babbit Metals, and Anti-Friction Metals.
Claims use since 1894.

Reg. No. 126,916. Registered Oct. 14, 1919. A. Allan & Son, Harrison, N. J. Republished by Arthur Pforr, doing business as A. Allan & Son, Harrison, N. J.

ALLAN

For Non-Ferrous Alloys—Viz., Bearing-Bronze, Babbit Metals, and Anti-Friction Metals.
Claims use since 1891.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 200,685. Registered July 7, 1925. (Classified in Class 46.) The J. R. Watkins Company, Winona, Minn. Republished by "4711" Limited, New York, N. Y., a corporation of New York.
See this number in Class 46 for goods and mark.
Claims use since Feb. 28, 1925.

Reg. No. 335,898. Registered Apr. 5, 1938. A. H. Robins Company, Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

PHENAPHEN

For Medicinal Preparation Used as an Analgesic and Anti-Spasmodic.
Claims use since Sept. 25, 1937.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 300,686. Registered Jan. 31, 1933. Seth Thomas Clock Company, Thomaston, Conn. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

SETH THOMAS

For Electrical Motors.
Claims use since May 1, 1931.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 358,388. Registered July 12, 1938. Western Machinery Company, San Francisco, Calif., a corporation of Utah. Republished by registrant.

WEMCO

For Classifiers (for Sizing Crushed Rock and Ore), Thickeners (for Dewatering Pulps), Agitators (With and Without Aerating Devices), Precipitation Equipment (for Removing Precious Metals From Solutions), Reagent Feeders (for Adding Definite Amounts of Chemicals in a Process), Bin Gates, Hoists, Ball Mill Feeders, and Jigs (Used in Ore Milling).
Claims use since July 3, 1937.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 91,054. Registered Apr. 8, 1913. Western Clock Co., Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

BEN

For Clocks and Watches.
Claims use since Oct. 28, 1912.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Reg. No. 434,847. Registered Dec. 9, 1947. Waters Conley Company, Rochester, Minn., a corporation of Minnesota. Republished by registrant.

Phonola

For Non-Electrical Phonographs.
Claims use since Apr. 16, 1926.

CLASS 37

PAPER AND STATIONERY

Reg. No. 90,401. Registered Feb. 25, 1913. American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y. Republished by Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware.

Quik-Trip

For Manifold Books.
Claims use since Sept. 3, 1912.

Reg. No. 114,308. Registered Dec. 5, 1916. Byron Weaton Company, Dalton, Mass., a corporation of Massachusetts. Republished by registrant.

Defiance

For Writing Paper.
Claims use since the early part of the year 1872.

Reg. No. 128,949. Registered Jan. 20, 1920. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Republished by registrant.

WAVERLY

For Writing Paper.
Claims use since early part of the year 1870.

Reg. No. 130,900. Registered May 4, 1920. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Republished by registrant.

TYPOCOUNT

For Machine-Bookkeeping Paper.
Claims use since Feb. 15, 1917.

Reg. No. 145,058. Registered July 26, 1921. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass., a corporation of Massachusetts.

VULCAN

For Paper for General Printing and Writing Purposes and Mailing-Envelops.
Claims use since on or about Apr. 1, 1898.

Reg. No. 165,999. Registered Mar. 27, 1923. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass, a corporation of Massachusetts.

ANGLO-SAXON BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Printing and Writing Paper.
Claims use since Apr. 1, 1900.

Reg. No. 184,144. Registered May 20, 1924. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass., a corporation of Massachusetts.

DEPENDENCE

For Writing and Printing Paper and Mailing Envelopes.
Claims use since May 7, 1910.

Reg. No. 191,521. Registered Nov. 11, 1924. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Byron Weaton Company, Dalton, Mass., a corporation of Massachusetts.

LENOX BOND

For Writing and Printing Paper and Mailing Envelopes.
Claims use since July 17, 1891.

Reg. No. 215,325. Registered July 13, 1926. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Byron Weaton Company, Dalton, Maas., a corporation of Massachusetts.

Court Linen Ledger

The words "Linen Ledger" are disclaimed apart from the mark as shown.
For Ledger Paper.
Claims use since Mar. 31, 1911.

Reg. No. 437,343. Registered Mar. 16, 1948. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Republished by registrant.

CENTENNIAL

For Writing Paper.
Claims use since on or about Jan. 11, 1926.

Reg. No. 442,495. Registered Apr. 19, 1949. Wurzburg Brothers, Memphis, Tenn. Republished by Wurzburg Brothers, Incorporated, Memphis, Tenn., a corporation of Tennessee.

WURCO

For Autographic Registers, Blank Labels and Tags, Partially Printed Business Forms, Salesbooks, Indented Paper, Toilet Seat Covers, Corrugated Paper, Blank Laundry Tags, Paper Wiping Cloth, Shipping Tags, Toilet Tissue, Paper Towels, Wrapping Paper, Marking Tags, Foil Paper Wrappers, Cellophane Wrappers, and Blank Forms Interlined With Carbon Paper.
Claims use since Jan. 18, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 84,728. Registered Jan. 2, 1912. Curtis Publishing Company, Philadelphia, Pa. Republished by The Curtis Publishing Company, Philadelphia, Pa., a corporation of Pennsylvania.

Country Gentleman

For Agricultural Journal Issued From Time to Time.
Claims use since Jan. 1, 1853.

CLASS 39

CLOTHING

Reg. No. 89,910. Registered Jan. 21, 1913. William Brown Company, Philadelphia, Pa. Republished by Granite Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Pennsylvania.



For Ladies', Gentlemen's, and Children's Hosiery.
Claims use since July 1, 1912.

Reg. No. 90,963. Registered Apr. 8, 1913. Geo. Brunssen Co., New York, N Y. Republished by George Brunssen Company, Incorporated, New York, N. Y., a corporation of New York.



The word "Brand" is disclaimed apart from the mark as shown.
For Uniform Hats, Caps, and Helmets for Policemen, Firemen, Letter-Carriers, Railroad Conductors, and Brakemen, Soldiers, and Fraternities.
Claims use since April 1908.

Reg. No. 437,869. Registered Mar. 30, 1948. Stelzer Bros. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

STELHIDE

For Belts for Personal Wear.
Claims use since May 16, 1947.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 200,685. Registered July 7, 1925. The J. R. Watkins Company, Winona, Minn. Republished by "4711" Limited, New York, N. Y., a corporation of New York.

S Y R

For Brown Skin Face Powder, Complexion Powder, Deodorant Powder, Talcum Powder, Tooth Powder, Fly Powder, Cold Cream, Face Cream, Face Packs, Vanishing Cream, Cosmetic Lotion, Rouge, Lip Stick, Perfume, Toilet Water, Scalp Tonic, Shampoo Jelly, Coconut Oil, Shampoo, Hair Tonic, Hair Oils, Mouth Wash, Tooth Paste, Nail Polish, Eyebrow Pencil, Aspirin, Kidney and Bladder Pills, Cascara-Senna Tablets, Cathartic Liver Pills, Baking Powder, After-dinner Tablets, Corn Salve, Digestive Tablets, Dioretic Tablets, Headache Tablets, Herb Tablets, Little Liver Pills, Stick Salve, Tootbache Wax, Worm Tablets, Household Disinfectant, Fly Oil, Poultry Tonic, Hair Tonic, Hair Oils, and Sachet.
Claims use since Feb. 28, 1925.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 200,685. Registered July 7, 1925. (Classified in Class 46.) The J. R. Watkins Company, Winona, Minn. Republished by "4711" Limited, New York, N. Y., a corporation of New York.
See this number in Class 46 for goods and mark.
Claims use since Feb. 28, 1925.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 200,685. Registered July 7, 1925. Classified in Class 46.) The J. R. Watkins Company, Winona, Minn. Republished by "4711" Limited, New York, N. Y., a corporation of New York.
See this number in Class 46 for goods and mark.
Claims use since Feb. 28, 1925.

REISSUES

JUNE 2, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

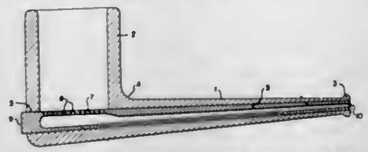
23,663

SMOKER'S PIPE

James W. Cryder, Denver, Colo., assignor of one-half to Pearl E. Cryder, Denver, Colo.

Original No. 2,593,731, dated April 22, 1952, Serial No. 746,984, May 9, 1947. Application for reissue July 10, 1952, Serial No. 298,218

4 Claims. (Cl. 131—219)



1. In a smoking pipe, a pipe bowl defining a bowl chamber, a pipe stem having a passageway formed longitudinally through the center thereof, formed integral with the bowl, said bowl having a recess rectangular in transverse cross section formed in the bottom of the bowl below the bottom of the bowl chamber, and providing a continuation of the passageway of the stem, a tubular member rectangular in transverse cross section providing a wide flat upper surface, fitted within the recess of the bowl and in the passageway of the pipe stem, the upper surface of said tubular member within the bowl being flush with the surface defining the bottom of the bowl chamber, the wide flat upper surface of the tubular member having rows of openings therein, through which smoke is drawn into the tubular member from the bowl chamber.

23,664

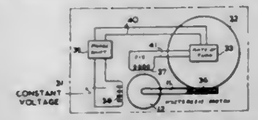
ELECTRIC MOTOR CONTROL SYSTEM

Frederick William Meredith, Cheltenham, England, assignor to S. Smith & Sons (England) Limited, a British company

Original No. 2,512,665, dated June 27, 1950, Serial No. 526,434, March 14, 1944. Application for reissue June 26, 1951, Serial No. 233,510. In Great Britain October 18, 1943

27 Claims. (Cl. 318—18)

1. [In] An automatic pilot control system for maintaining a physical condition at a datum value in a movable craft comprising in combination a member the position of which in relation to a datum position represents the variation of the physical condition from the datum value, means whereby the movement of said member generates an A. C. control voltage, a motor the field of which is energised by said voltage and means by which the motor operates to restore the physical condition to the datum said motor being a self-starting asynchronous hysteresis motor including, cooperating stator and rotor members, one of said members comprising a magnetic core structure having a low conductivity to eddy currents and having a series of radially extending, angularly spaced winding slots and magnetic bridges for the ends thereof adjacent the other member and a polyphase distributed



energizing winding disposed in said slots, the other of said members comprising an annular magnetic armature constructed at least in part of a magnetic material having a high hysteretic constant said members having complementary cylindrical adjacent surfaces forming an air gap therebetween and having such relative diameters that said air gap is substantially the minimum permitted by manufacturing tolerances, and means for mounting said members for relative rotation.

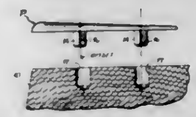
23,665

SCUFF PLATE FOR FURNITURE

Charles L. Pettibone, Shaker Heights, Ohio, assignor to The B. L. Marble Chair Company, Bedford, Ohio, a corporation of Ohio

Original No. 2,603,909, dated July 22, 1952, Serial No. 86,821, April 11, 1949. Application for reissue August 26, 1952, Serial No. 306,521

9 Claims. (Cl. 45—137)



6. A scuff plate for attachment to a furniture element having spaced bores extending from an exposed surface comprising an elongated plate of plastic material and a plurality of axially spaced integral pins extending from the undersurface of the plate for insertion in the bores in the furniture element, said pins being counterbored and having portions adapted to tightly engage the sides of the bores in the furniture.

PLANT PATENTS

GRANTED JUNE 2, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,191
CLIMBING ROSE PLANT
Edward E. Marsh, Pasadena, Calif.
Application February 9, 1948, Serial No. 7,128
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant as described and illustrated, characterized as to novelty by its strong and vigorous climbing habit and its persistency of reproduction of this characteristic with no apparent tendency to revert to bush form when propagated by budding.

PATENTS

GRANTED JUNE 2, 1953

GENERAL AND MECHANICAL

2,640,195
EYESHADE
George Dale Bricker, Des Moines, Iowa
Application August 13, 1951, Serial No. 241,553
7 Claims. (Cl. 2—13)



6. In an eye shade, a wing-like eye shade member, a supporting member for said wing-like eye shade member, a hinge means on said supporting member, a bracket on said eye shade member, said hinge means slidably mounted in said bracket, stop means for limiting the movement of said hinge means in two directions and means for locking said hinge means against hingable movement at times.

2,640,196
GARMENT
Barbara V. Gould, Cleveland Heights, Ohio
Application February 12, 1949, Serial No. 76,083
5 Claims. (Cl. 2—27)



1. A figure-controlling garment comprising a first strip of relatively wide elastic material, a first seam joining the ends of said strip to form a first band, a second strip of relatively wide elastic material of dimensions substantially equal to said first strip, a second seam joining the ends of said second strip to form a second band, said first band being interfitted in said second band so that said bands across at the front and back of said garment and overlap at the sides of said garment, and side seams at each side of said garment joining said bands at the overlapped portions, whereby said bands are capable of at least limited relative movement with respect to each other at the front and back of the garment where the bands cross.

2,640,197
PROTECTIVE GARMENT WITH TROUGH MEANS
Corinne M. Murray, Yerba Buena Island, Calif.
Application July 5, 1949, Serial No. 102,997
4 Claims. (Cl. 2—48)

4. A garment of the character described having a back and a front portion adapted to respectively extend over the front and rear sides of the upper part of the body of a wearer, said back portion including an upwardly opening horizontally elongated pocket of waterproof material



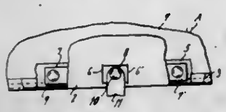
extending behind the shoulders with the upwardly opening side at about the upper level of the shoulders for receiving moisture ejected from the mouth of a baby held against the forward side of either of said shoulders.

2,640,198
HAIRLINE PROTECTOR
Florence Mullen, Mount Vernon, N. Y.
Application January 16, 1951, Serial No. 206,180
2 Claims. (Cl. 2—174)



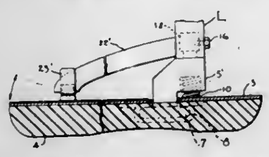
1. A self-retaining device for protecting the forehead and ears of the wearer while dyeing, tinting or otherwise treating the hair, said device including an elongated porous body of liquid absorbing material and a core element enclosed therein, said core element including an intermediate flexible band section located centrally within said porous body and adapted to extend across the forehead below the hair line and two terminal sections of readily bendable non-resilient material connected at one of their ends to the adjacent end of said band section, whereby the end portions of said porous body adjacent the central portion may be bent to form a depending loop in front of one ear and a reverse loop extending over and behind said ear, thereby to retain said porous body in position on the wearer.

2,640,199
HEADWEAR
Julius H. Funk, St. Louis, Mo.
Application January 27, 1950, Serial No. 140,825
5 Claims. (Cl. 2—199)



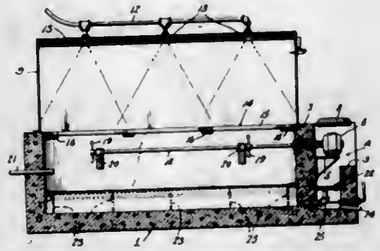
1. A cap comprising a crown, a lining, a head band disposed between the crown and the lining, said crown, lining and head band being secured together in the form of a unitary assembly and defining the lower edge of said cap, said crown being provided on each side above the region of the ears of the wearer when the cap is being worn with pairs of spaced parallel slits perpendicular to said edge, a relatively short strip of stiff material rigidly secured adjacent one of its ends to the head band on each side of the cap so as to be positioned above the ears of the wearer when the cap is being worn and passing outwardly through one of said slits and back inwardly through the other slit of each of said pairs so that a short portion of each of said strips is exposed, and swivel means swingably secured to the said exposed portions of each of said short strips for supporting ear muffs.

2,640,200
PROSTHESIS CONSTRUCTION
Walter Wisbrun, Cleveland Heights, Ohio
Application July 28, 1950, Serial No. 176,459
11 Claims. (Cl. 3—6)



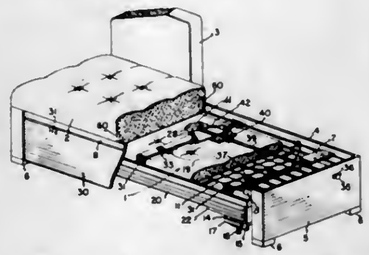
1. In prosthesis construction, a leg stem, a foot-plate, an intermediate member between said leg stem and said foot-plate having a forwardly and downwardly extending portion terminating in a diagonally oriented bearing member of generally cylindrical form, a receiving bearing overhanging the ends of the latter in the foot-plate and permitting limited rocking movement, a general cover plate on the foot-plate to which said receiving bearing is secured, a longitudinal slit in the forward end of said cover plate, a T-head extension at the top of said intermediate member, a shoulder in the lower end of the leg stem with partial interruption by a slot to receive said T-head when the foot-plate is turned transversely, thereby forming a rotary joint between the leg stem and the intermediate member, a limit-screw set through a horizontal slot above said shoulder and the leg stem and into the T-head to limit the extent of rotary movement, a spring between the base of said intermediate member and the subjacent cover plate, an arm secured to the leg stem and extending forwardly over the foot-plate, and a spring with one end secured to the outer edge of the foot-plate and extending in under said forwardly extending arm.

2,640,201
CONTROLLED TEMPERATURE VAPOR-BATH CABINET
Orlo R. Burwell, Truth or Consequences, N. Mex.
Application July 23, 1951, Serial No. 238,180
1 Claim. (Cl. 4—163)



In a vapor bath, a body forming an open topped tank having a bottom, parallel side walls and parallel end walls, said walls being of equal heights, said bottom having an extension projecting from one of its ends, and the side walls having extensions at the same end and of equal height to the side walls of the body, a transverse wall rising from the free edge of the bottom extension and joining the side wall extensions, said transverse wall being of substantially one-half the height of the remaining walls, said side walls and their extensions having rabbets formed on their inner edges, a foraminous rack having its sides resting removably in the rabbets of the body side walls, a head rack having its side edges resting removable in the rabbets of the side wall extensions, a bracket mounted between the side wall extensions on the adjacent end wall, a motor supported on said bracket at a height greater than the transverse wall, for access through the opening above said each wall, a shaft extending from the motor to lie longitudinally of the tank body, and circulating fans on said shaft.

2,640,202
FURNITURE CONSTRUCTION
Saul N. Swartz, Cambridge, Mass.
Application March 14, 1946, Serial No. 654,379
5 Claims. (Cl. 5—14)



3. In a couch having an upholstered top for sleeping purposes, providing a storage space beneath the top for storage of a cot bed, a structure comprising a door hingedly mounted at the front of the couch and covering the front opening between the leg supports and beneath the top of the couch to the floor, a plurality of hinges each having a half mounted on the inside of the door at the top edge thereof, means supporting the other halves of the hinges for movement

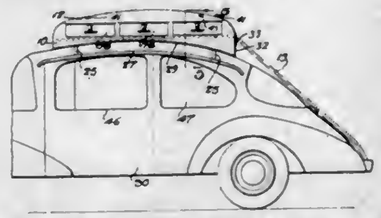
normal to the plane of the door comprising a plurality of parallelly positioned rods to which said other halves of the hinges are attached at one end, means supporting said rods for concomitant axial movement thereof and means operatively attached to one of said rods for advancing said door in a direction perpendicular to its normal position away from said front opening whereby the door may be swung upward on its hinges to open the same.

2,640,203
CABINET TYPE FOLDING CRIB
Werner H. Sheldon, New York, N. Y.
Application June 11, 1948, Serial No. 32,299
3 Claims. (Cl. 5—100)



2. A crib comprising front and rear gates and side members in upright position, a mattress supporting frame in horizontal position between said gates and members, said front gate having top and bottom transverse members, means removably supporting the top transverse member on said side members, slides on the under side of said frame, sliders for said slides, hinges connecting said sliders to said bottom transverse member, and a catch carried by said slider and operative to stop the slider from movement to the full length of the slide and in position to hold the bottom transverse member adjacent to the frame, said catch being releasable to thereby permit completion of movement of the slider on the slide and spacing of the said bottom transverse member away from the frame.

2,640,204
SLEEPING EQUIPMENT FOR USE IN COMBINATION WITH MOTOR VEHICLES OF THE PLEASURE TYPE
Edmond C. Cutler, Walpole, N. H.
Application January 6, 1948, Serial No. 668
1 Claim. (Cl. 5—119)



In a sleeping compartment for mounting on the top of a vehicle, a base including an arcuate base plate, vertically disposed end walls extending upwardly from said plate, vertically disposed spaced parallel side walls extending upwardly from said plate and secured thereto, there being a plurality of spaced parallel holding compartments arranged in said base, vacuum cups depending from the bottom of said base for engaging the top of the vehicle, straps having one end connected to said base and having fasteners on the other ends for engaging drain troughs of the vehicle, there being a storage compartment arranged at the rear of said base, a hinged door for closing said storage compartment, said base being provided with a centrally disposed, longitudinally extending recess for receiving therein a ladder, members hingedly connected to the upper edge of said side walls, handles connected to said members for manually swinging said members, sockets secured to the exterior surface of said members, struts having their upper ends arranged in engagement with said sockets and their lower ends engaging the windows of the vehicle, flanges arranged on each of the body members, a flexible cover detachably connected to said flanges, a plurality of arcuately shaped parallel rods supporting said cover, and spaced parallel end pieces formed integrally with said cover and extending therefrom.

2,640,205
FOOT SUPPORT AND WARMER FOR BEDS
Alice H. Simpson, Santa Barbara, Calif.
Application May 19, 1950, Serial No. 163,017
6 Claims. (Cl. 5—327)

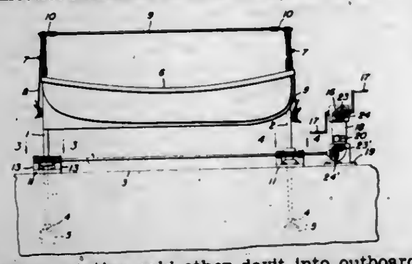


4. A foot support and warmer, for the occupant of a bed, comprising a transversely elongated shell triangular in cross section, a length of fabric, the shell being secured across one end of the length of fabric, means to anchor the other end of the length of fabric against sliding down in the bed along which said fabric extends, and a length of flexible strap anchored at the ends top-side and underside to the length of fabric, and extending to and about the foot supporting member; there being a transversely elongated hot water tank triangular in cross section, matchingly engaged in the shell from one end thereof.

2,640,206
MECHANICAL DEVICE FOR OPERATING BOAT DAVITS
Asa J. Harris, Balboa, C. Z.
Application October 11, 1949, Serial No. 120,677
5 Claims. (Cl. 9—40)

1. In combination, a pair of journalled boat davits having boat suspending cables thereon and being rotatable from inboard to outboard position to swing a boat into outboard position, and operating mechanism for said davits comprising a pair of gears freely rotatable, respectively, on said davits, a drive for said gears operating the same simultaneously in opposite directions with respect to each other, a disk fast on one davit in driven relation to the gear on said davits, pin and socket coupling devices carried by said disk and related gear, respectively, whereby rotation of said related gear will rotate said davit through an initial stage of operation toward outboard

position, pin engaging means uncoupling said devices after said stage of operation of said davit for independent further rotation of said davit toward outboard position, and lost motion driving connections between the other davit and the gear



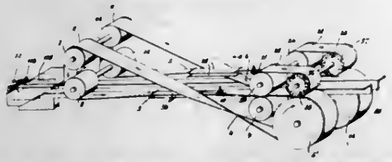
thereon rotating said other davit into outboard position after the first stage of operation of said first named davit, rotation of the last named davit acting through the cables under the weight of the boat thereon to further rotate said first named davit after its initial stage of operation.

2,640,207

APPARATUS FOR APPLYING JACKETS TO BOOKS

Luis de Florez, Pomfret, Conn., and Garrett B. Linderman, Jr., Washington, D. C., assignors, by mesne assignments, to The de Florez Company, Inc., a corporation of Delaware

Application July 13, 1948, Serial No. 38,416
30 Claims. (Cl. 11—1)



1. In an apparatus for applying jackets over the covers of books, a series of work means and conveying means by which a book is moved with its binding edge uppermost through said series of work means, said series including means for laterally extending the covers, means for feeding jackets to the extended covers, means for folding the jackets over the ends of the extended covers, said folding means comprising two endless belts, each having at least one twist and arranged to travel in the direction of the book fed through the apparatus and pass over the ends of the books whereby the jackets are caused to fold over the ends of the extended covers, means for pressing the folds of the jacket into close engagement with the covers, and means for closing the jacketed covers.

2,640,208

METHOD AND APPARATUS FOR BUILDING IN THE CASES OF BOOKS

Luis de Florez, Pomfret, Conn., and Owen L. Gore, Douglaston, and Emmon Bach, Scarborough, N. Y., assignors, by mesne assignments, to The de Florez Company, Inc., a corporation of Delaware

Application November 13, 1948, Serial No. 59,846
5 Claims. (Cl. 11—1)

2. An apparatus for building-in the cases of page blocks, comprising, means for continuously conveying successive page blocks with the cases registered thereon and with wet adhesive between said page blocks and said registered cases along a predetermined path and into engagement with parallel supporting and ironing means positioned to engage the cases along the line where the hinge is to be built in, resilient means for continuously pressing said supporting and ironing means into pressure contact along substantially



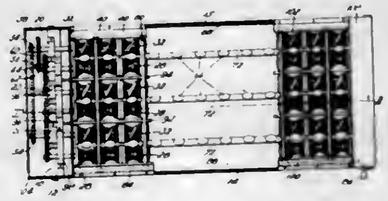
said entire line, said supporting and ironing means being adapted to iron the hinge into the cases as the successive page blocks are continuously advanced along the path defined by the parallel supporting means, and pressure applying and conveying means disposed adjacent and parallel to said supporting and ironing means to convey the successive page blocks and cases along said supporting and ironing means.

2,640,209

EGG WASHING MACHINE

Gordon W. Johnson, Raytown, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri

Application September 9, 1946, Serial No. 695,702
9 Claims. (Cl. 15—3.12)



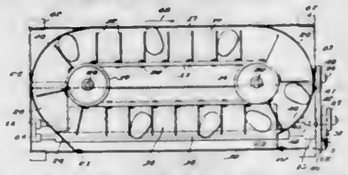
2. An egg washing machine comprising a frame, a plurality of pairs of cooperating spools rotatably carried by said frame, each of said spools having a concave outer face to which are fixed a plurality of outwardly extending resilient scrubbing fingers, one spool of each pair having a substantially helical rib of a resilient material attached thereto extending around said concave spool surface and extending outwardly from said surface slightly farther than said fingers, each of said pairs of spools being adapted to receive an egg therebetween; means for supporting an egg between and in contact with each of said pairs of spools; means for rotating the spools of each said pairs about substantially parallel axes and in the same direction, the spool having said helical rib moving upwardly with respect to said egg supporting means, and the other spool moving downwardly with respect to said egg supporting means but at a greater speed than the spool having said helical rib; and means for directing a spray of washing fluid over said eggs as they are supported between said pairs of spools.

2,640,210

EGG WASHING MACHINE

Otto Zauner, Vineland, N. J.

Application August 9, 1949, Serial No. 109,248
9 Claims. (Cl. 15—3.13)



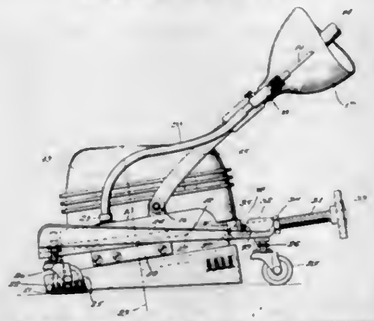
1. An egg washing machine comprising an endless horizontally disposed trough having parallel sections positioned in a common horizontal plane and having an opening in the lower surface and in one section thereof, a roller having a soft pliable surface incorporated in the opening of the trough and positioned to receive eggs from the other section of the trough, a small roller positioned above the roller with the soft pliable surface, offset from and parallel to the center thereof, means rotating the rollers with the upper surface of the soft pliable roller traveling toward the smaller roller, means spraying water on the eggs throughout part of the length of the trough, and means rolling eggs through the trough and over the rollers incorporated in the opening therein.

2,640,211

RUG SCRUBBING MACHINE

William L. Petersen, West New York, N. J., assignor to Clarke Sanding Machine Company, a corporation of Michigan

Application September 28, 1948, Serial No. 51,519
4 Claims. (Cl. 15—50)



4. In a rug scrubbing machine, in combination, a main frame with a single, generally flat, circular scrubbing brush rotatably mounted thereon and positioned below the main frame, and means to drive the brush; a supporting cradle; means for supporting the main frame on the cradle at an incline with respect to the floor to hold the brush on a tilted axis of rotation, and means for raising and lowering the brush with respect to the cradle to control its contact with the floor, the means for supporting the main frame comprising coacting inclined slides on the main frame and the cradle.

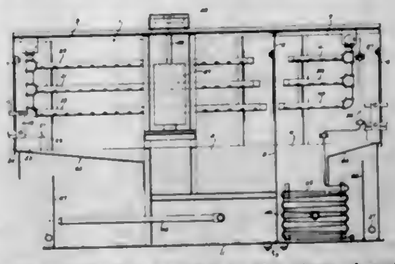
2,640,212

APPARATUS FOR CLEANING BOTTLES

Arthur S. Hamilton, Jr., Brighton, N. Y.

Application July 11, 1950, Serial No. 173,170
2 Claims. (Cl. 15—60)

1. Apparatus for cleaning the exterior surfaces of bottles comprising an endless conveyor traveling in a horizontal plane and provided with a series of vertically arranged spindles for holding the bottles inverted, wash and rinse chambers through which the conveyor and bottles travel, a pair of vertically arranged rotary brushes arranged intermediate the ends of the wash chamber and engageable with opposite surfaces of a bottle, means for rotating said brushes in the same direction while engaged with the bottle, spray-discharge nozzles arranged in the wash chamber on opposite sides of the brushes and disposed at acute angles between horizontal and vertical planes acting to direct hot sprays downwardly toward a bottle from opposite points, spray



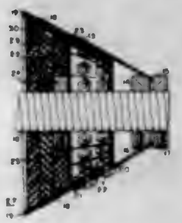
nozzles similarly arranged in the rinse chamber and operating to direct rinsing sprays on to the exterior surface of the bottle from opposite points and at acute angles between horizontal and vertical planes, a wash tank and a rinse tank located beneath the wash and rinse chambers respectively, means for heating the water in the wash and rinse tanks, pumps connected with the wash and rinse tanks respectively acting to maintain a continuous circulation of water under pressure to the spray nozzles in the wash and rinse chambers, and an overflow pipe in the wash chamber including an overflow level for liquid, an overflow level thereabove for foam, and a barrier preventing access of foam to the liquid overflow.

2,640,213

HYDRAULIC PROPELLING UNIT FOR PIPE CLEANERS

Kyle Irwin Robinson, Glenshaw, Pa., assignor to Pittsburgh Pipe Cleaner Company, Pittsburgh, Pa., a company of Pennsylvania

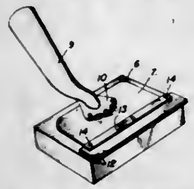
Application September 8, 1948, Serial No. 48,175
5 Claims. (Cl. 15—104.06)



1. In a hydraulic unit for pipe cleaners, in combination, a stem, a shell substantially the shape of a conic frustum carried by the stem, a plurality of flexible members carried by the shell, an annular plate carried by the stem, the annular plate being disposed in the flexible members to provide a fulcrum about which they may bend to enable the hydraulic unit to adapt itself to pipes of different cross section, and resilient

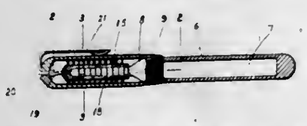
means disposed inside of the flexible members forming the large end of the hydraulic unit and on the trailing side of the annular plate, the resilient means thereby supporting the flexible members.

2,640,214
MOP AND SQUEEGEE COMBINED
Walter J. Zimmerman, Punxsutawney, Pa.
Application July 19, 1948, Serial No. 39,457
1 Claim. (Cl. 15—121)



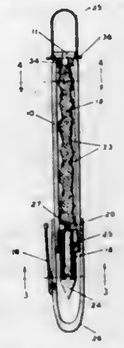
A manually usable implement for household and industrial cleaning purposes comprising a substantially rectangular compressible pad, a correspondingly shaped flat rigid backing plate, of an area less than the area of said pad, secured atop said pad, all of the marginal edge portions of the pad extending beyond the corresponding marginal edge portions of the backing plate, a pair of relatively narrow rubber wiper strips superimposed upon each other and supported by the forward longitudinal edge portion of said backing plate, said strips being of lengths greater than the length of the backing plate and of lengths approximately equal to the length of the pad, the transverse end portions of said wiper strips projecting beyond the corresponding edge portions of the backing plate and partially overlying the adjacent portions of the top surface of the pad, a flat rigid cleat superimposed upon inward longitudinal edge portions of said wiper strips and secured to the wiper strips and the underlying longitudinal edge portion of the backing plate, remaining longitudinal edge portions of said wiper strips projecting beyond and overhanging the coacting marginal edge portion of said pad, said cleat being appreciably narrower than said wiper strips, the latter and said cleat being in a plane substantially parallel to the top surface of said pad, and a handle secured to said backing plate.

2,640,215
FOUNTAIN TOOTHBRUSH
Frederick H. Borsini, Dayton, Ohio, assignor to William H. McGhee, Dayton, Ohio
Application November 29, 1945, Serial No. 631,507
2 Claims. (Cl. 15—133)



1. In a tooth brush, a handle having therein a chamber to receive a fluid dentifrice, an elongate member connected at one end with said handle and having therein a longitudinal passage open at its ends only, and communicating at its inner end with said chamber, said elongate member being provided with outwardly directed serrations, a cylindrical brush head separate from and mounted on said elongate member and having an end portion extending beyond the outer end of said elongate member, said cylindrical brush head being made of resilient material resiliently engaging the serrations on the elongate member to hold the brush head in position, said brush head having resilient bristles extending radially from all sides thereof, said end portion of said brush head having a restricted orifice communicating with the outer end of said passage in said elongate member and constituting a mouth piece through which dentifrice may be drawn from said passage.

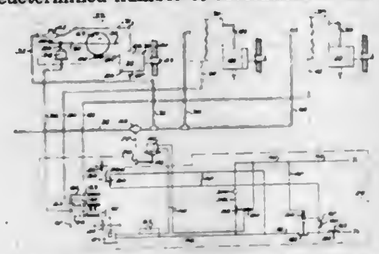
2,640,216
FOUNTAIN PEN WITH FILLING CAP
Max C. Gottlieb, New York, N. Y., assignor to Speedry Products, Inc., New York, N. Y.
Application February 26, 1947, Serial No. 730,917
4 Claims. (Cl. 15—134)



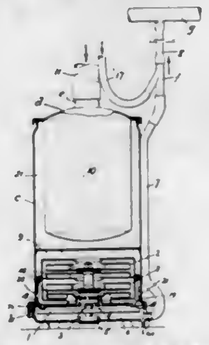
3. A fountain pen comprising a barrel forming an ink reservoir open at one end and provided with a small aperture at the other end which is otherwise closed, a nib holder having a bore attached to and communicating with the open end of said reservoir, a nib of absorbent material secured in said bore, said nib having a projecting inner end and the outer end of said nib projecting beyond the outer end of said holder, expansible absorbent means substantially filling said reservoir and having its outer end in contact with the inner end of said nib, said expansible absorbent means pressing against said nib whereby capillary contact is maintained, in combination with a soft resilient rubber cap having a neck portion embracing said closed end adapted to be compressed to expel air from said barrel and to draw in ink through said nib end when released.

2,640,217
SOOT BLOWER CONTROL SYSTEM
Curtis L. Howse, Spartanburg, S. C., assignor to Continental Foundry & Machine Company, East Chicago, Ind., a corporation of Delaware
Application July 11, 1950, Serial No. 173,215
8 Claims. (Cl. 15—318)

3. An automatic soot blower unit comprising a soot blower, a fluid-driven motor connected to drive the soot blower through a blowing cycle determined by the number of revolutions of the motor, a valve controlling the supply of driving fluid to said motor, and means to operate the valve comprising biasing means yieldably urging the valve closed, a member movably mounted to engage the valve when it is closed and to move the valve to its open position against the action of the biasing means, and a cam geared to the motor and mounted to be driven by the motor against said member to release it from the valve and thus allow the valve to close after a predetermined number of revolutions of the motor, whereby said member serves to open the valve and start the motor at the beginning of the blower cycle, and the cam and biasing means serve to stop the motor after a predetermined number of revolutions thereof which move the blower through a desired cycle.

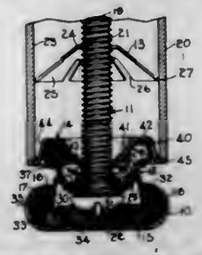


2,640,218
APPARATUS FOR OPERATING A VACUUM CURRYING APPARATUS
Sven Johan Erling, Nockeby, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application December 8, 1945, Serial No. 633,653
In Sweden December 15, 1944
4 Claims. (Cl. 15—327)



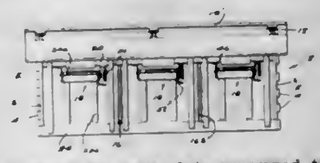
1. In a pneumatic currying apparatus, a portable casing for connection to a suction currying nozzle and divided into an operating chamber, an exhaust chamber, and a filter chamber having an air suction inlet, an air filter in the filter chamber interposed between the suction inlet and said exhaust chamber, the filter chamber communicating with the exhaust chamber and the exhaust chamber communicating with atmosphere, a fan in the exhaust chamber for drawing air from the suction inlet through the air filter and discharging the same from the exhaust chamber, a pneumatically operable actuating device mounted in said operating chamber, a positive driving connection between said actuating device and the fan for driving the same, the fan being adapted to draw a relatively large volume of air at a pressure somewhat below atmosphere while said actuating device is operable by a relatively small volume of air undergoing a relatively large change in pressure in passing therethrough, the operating chamber having an inlet port and an outlet port, and a flexible hose for connecting one of said ports to a pneumatic pipe line to operate the actuating device by air flow from said inlet port through the operating chamber to the outlet port.

2,640,219
FURNITURE GLIDER
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 28, 1949, Serial No. 101,719
7 Claims. (Cl. 16—42)



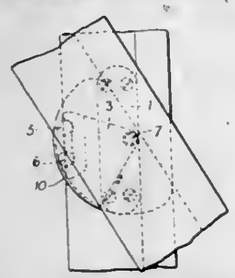
2. A furniture leg glider comprising a glider shoe, cooperating ball and socket members, one of said members being anchored in said shoe, a supporting post extending through both of said members and having a head loosely retained by said one of said members, said members being relatively movable to permit tilting of said post, a wear plate mounted on said post above said ball and socket members and adapted to support the lower end of a furniture leg, and resilient compressible means mounted between said wear plate and the other of said members for transmitting the load on said wear plate to said other member and thence to said one member and said shoe.

2,640,220
TRAP-NEST GATE
Theophile T. Arel, Murietta, Calif.
Application February 6, 1951, Serial No. 209,644
4 Claims. (Cl. 16—167)



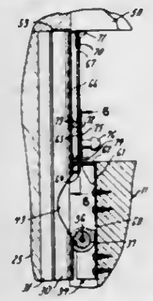
1. A support for gate slats arranged to form closure pieces across an opening to a trap-nest, said support having an elongated body essentially formed of a single piece of L-shaped sheet metal having a slit extending inwardly of the ends thereof coincidental with the intersection of the sides of said body so as to form bifurcated end portions therefor, said bifurcated end portions being deformed to provide outwardly disposed slat-ways extending transversely thereacross, a capping on one side of each slat-way, said cappings on their one side being provided with outwardly inclined legs, and a pintle for said support, said pintle being positioned within said body adjacent the intersection of the sides thereof and extending through the ends thereof including said cappings.

2,640,221
PIVOT HINGE FOR WINDOWS
Einar Särenholm, Eskilstuna, Sweden, assignor to Svartviks Aktiebolag, Sundsvall, Sweden, a corporation of Sweden
Application August 6, 1947, Serial No. 766,712
In Sweden May 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires May 12, 1963
2 Claims. (Cl. 16—172)



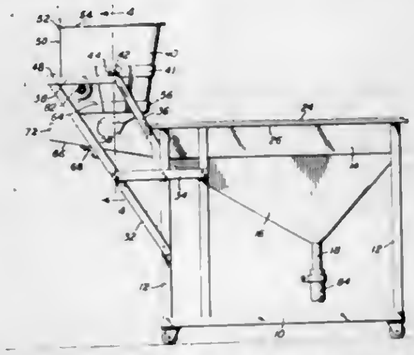
1. In windows having a frame and a casement, a hinge for the suspension of the casement in the frame to enable swinging of the casement, said hinge comprising a hinge fitting mountable on the frame, a second hinge fitting mountable on the casement, an intermediate member swingably suspended and mounted on said frame fitting for supporting the casement on the intermediate member, a pin on the casement fitting, said intermediate member having a slot with a lower wall and opening through the circumference of the intermediate member, said pin being mounted in said slot adjacent the lower wall, a stop for limiting the movement of the intermediate member and for determining a small opening position for the window, and an abutment member on the casement fitting adapted to carry along the intermediate member during the movement of the casement from a closed window position to said small opening position, said slot being adapted to receive the abutment member for actuation of the intermediate member and to release the abutment member for allowing the casement to be swung open further from said small opening position.

2,640,222
COUNTERBALANCE TAPE CONNECTING MEANS
Earl M. Trammell, Sr., and Earl M. Trammell, Jr., St. Louis, Mo.
Application March 21, 1949, Serial No. 82,594
16 Claims. (Cl. 16—202)



1. In a counterbalance disconnecting device, for use between a sash and a balance tape, a pair of interfitting fixtures one of which is secured in use to an end region of a counterbalance tape, and the other carried by a sliding sash in a sashway-forming assembly, one of said fixtures including an arm, the other said fixture formed to provide a socket normally interengaged by said arm, the fixtures being formed to permit their disengagement, and one of said fixtures having a lateral extension provided with a camming surface and arranged when the sash is brought to a predetermined position, to effect a translatory movement of at least one of the fixtures, to effect a separation of said arm and socket and facilitate removal of the sash to which the device is fitted, the tape-carried fixture including an abutment coacting in the sashway to limit tape movement and to promote translatory movement of said fixture.

2,640,223
OYSTER PREPARING MACHINE
Hubert B. Secor, Gig Harbor, Wash.
Application June 8, 1948, Serial No. 31,739
9 Claims. (Cl. 17—6)

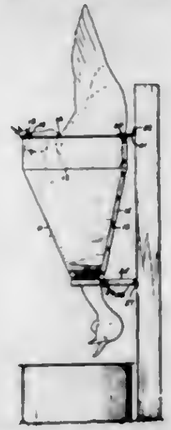


1. An oyster preparing machine comprising a frame, a support carried by said frame, a substantially frusto-conical container having its major end disposed above its minor end, means pivotally securing said container to said support, means carried by said support and engageable with said container to hold the latter against pivotal movement, said container having an inlet adjacent its minor end, said inlet being disposed tangentially of said container, means for supplying a liquid to said container through said inlet to agitate and clean material within the container as the liquid moves in a spiral path toward the major end of said container, outlet means for said container, means carried by said container for screening said outlet means, a waste hopper supported on the frame, means for conducting waste from said outlet means to said hopper, and a horizontal screen supported on the frame and within the hopper and disposed sufficiently close to the container and in the path of the pivotal movement of the container as to permit oysters cleaned in the container to be discharged onto the horizontal screen as the container is pivoted toward the horizontal screen

2,640,224
RESTRAINING DEVICE FOR FOWL
Ramon H. George, Baltimore, Md.
Application September 26, 1950, Serial No. 186,721
1 Claim. (Cl. 17—11)

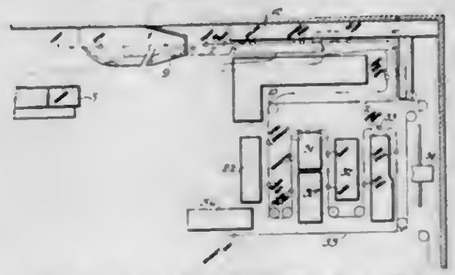
A fowl holding device, comprising a triangular body, the top portion of said body having vertical

walls, the lower portion of said body having con-



verging walls, each of said vertical and said converging walls having a plane surface.

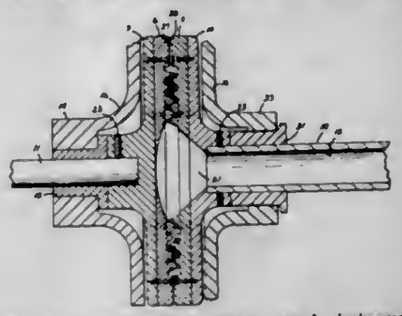
2,640,225
PROCESS FOR DRESSING BEEF CATTLE AND THE LIKE
Leonard T. Force and Gerald Moore, Norwood, Manitoba, and William J. Hincks, St. Boniface, Manitoba, Canada, assignors to Canada Packers Limited, St. Boniface, Manitoba, Canada
Application April 24, 1951, Serial No. 222,604
6 Claims. (Cl. 17—45)



1. A process for the dressing of cattle upon a continuously moving overhead rail which consists of first killing the animal, suspending same to said rail by one rear leg thereof, removing the foot of the other rear leg and opening the butt, transferring the suspension of said animal to the other hind leg thereof, removing the other hind foot and opening the butt, then suspending the animal by both hind legs, opening the brisket and rimming off the hide on said brisket, turning the shanks and clearing out the neck, and removing the hide and eviscerating the carcass progressively while said carcass is moved along said rail.

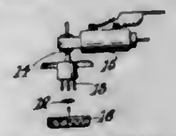
2,640,226
ATTRITOR FOR FIBROUS MATERIAL
George C. Yehling, Jr., St. Louis, Mo., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 19, 1950, Serial No. 156,923
4 Claims. (Cl. 18—1)

1. A rotary attritor comprising annular attrition members axially spaced to provide a working space therebetween, each of said members having concentric radially spaced annular working zones comprising annular rows of pyramidal teeth in a radially inner zone of each member extending into the working space, annular rows of pyramidal teeth extending from intervening concentric arcuate ridges in a radially intermediate zone of each member, the rows on one member being disposed in alternation with the rows on the other with close clearance there-



between in both the inner and intermediate zones, and annular relatively flat and smooth pellet-forming surfaces in a radially outer zone of each member spaced at a predetermined clearance, said pellet-forming surfaces having more clearance than the teeth to facilitate the formation of pellets.

2,640,227
PRODUCTION OF LENSES FROM TRANSPARENT PLASTICS
John Johnson, Slough, England, assignor to Combined Optical Industries Limited, Buckinghamshire, England, a British company
Application January 17, 1950, Serial No. 138,971
In Great Britain April 16, 1946
9 Claims. (Cl. 18—47.5)

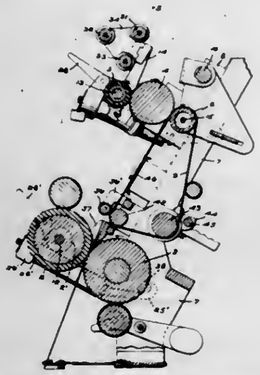


1. A method of making from transparent plastics an optically accurate lens with wear-resisting surfaces which method comprises the steps of making a transparent fully polymerised thermoplastic blank approximating closely to the shape of the desired lens, applying to said blank a uniform thin layer of a transparent thermosetting cross-linked resin in the partially polymerised state in a solvent therefor, removing said solvent, preheating the coated blank to a temperature at which the blank is softened, thereby advancing the polymerisation of said layer to the hard almost completely polymerised state in which the layer is not longer flowable but is sufficiently pliable to be bent, accurately moulding the blank between optically accurate dies under heat and pressure and at the same time shaping the layer, the thickness of which remains substantially constant during the molding step, to shape the coated blank to conform with the optically accurate dies, and simultaneously completing the polymerisation of the layer.

2,640,228
MECHANISM FOR DRAFTING RAYON TOW
Virgil A. Burnham, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application May 6, 1947, Serial No. 746,183
12 Claims. (Cl. 19—0.35)

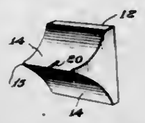
1. In a textile drafting mechanism, the combination of front and rear sets of rolls spaced

apart to feed a composite strand of textile fibers from one set to the other, the front set of rolls running at a surface speed sufficiently higher than that of the rear set to break the individual fibers and to draft the strand as so modified, said rear set of rolls comprising a positively driven middle roll and two additional rolls at opposite sides of it frictionally driven therefrom, the axis of said middle roll being offset from the plane passing through the axes of the other two



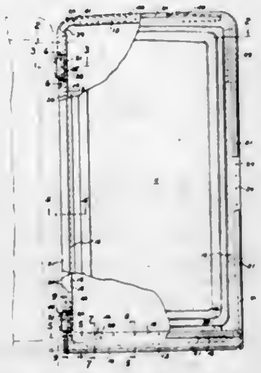
rolls associated with it in a direction opposite to the direction of travel of said strand away from the middle roll, means supporting said additional rolls for movement toward and from said middle roll, means for guiding said strand to said rear set of rolls in such a manner that it makes a partial wrap around one of said additional rolls and then around said middle roll so that it provides two bites through which the strand runs, and a weighting mechanism forcing all three of the rear rolls together.

2,640,229
SLIVER COMPRESSOR
Eugene C. Gwaltney, Biddeford Pool, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application July 28, 1951, Serial No. 239,064
3 Claims. (Cl. 19—157)



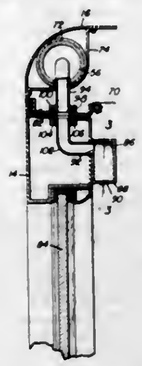
1. A sliver compressor for use with a pair of calender rolls to compress a textile sliver comprising a generally triangular base prismatic-shaped body having two faces with concave surfaces terminating at an edge, and a third face with a funnel-shaped sliver-collecting recess extending toward an edge between said first two faces, and a discharge orifice for said recess including a narrow totally enclosed slot extending substantially perpendicularly from an edge between said two faces along at least one of said faces and through said body to said recess to completely confine in a direction axially of a pair of calender rolls a textile sliver to be compressed.

2,640,230
CABINET DOOR STRUCTURE
Floyd R. Eck, Des Plaines, and Worthy L. Chambers, Chicago, Ill., assignors to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application July 16, 1951, Serial No. 237,018
14 Claims. (Cl. 20—35)



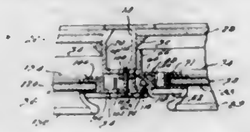
4. A refrigerator cabinet door structure comprising a substantially rectangular outer panel having the marginal portions extending rearwardly and turned inwardly to provide a reinforcing flange, a substantially rectangular shaped inner panel spaced laterally from the outer panel having marginal portions overlying the rear sides of the reinforcing flange and secured to said flange, an L-shaped bracket at each top corner of the door having angularly disposed legs respectively overlying the front sides of the reinforcing flange extending along adjacent side edges of the door, and a hinge part at one vertical edge of the door extending between and secured to both the marginal portion of the inner panel and the vertical leg of the adjacent L-shaped bracket.

2,640,231
CAR DEFROSTING UNIT
Jacob Berger, Chicago, Ill.
Application March 31, 1950, Serial No. 153,177
4 Claims. (Cl. 20—40.5)



1. A window defroster and car heater comprising a ring-like heated air header disposed in the roof of a car and adjacent the sides thereof, means supplying heated air to said header, warm air discharge nozzles positioned adjacent a car window glass for discharging heated air thereon and means connecting said nozzles to said header, one of said discharge nozzles being mounted upon the upper portion of a car door upon the interior thereof, said connecting means for said last mentioned nozzle including a conduit extending into the upper surface of a car door and movable therewith.

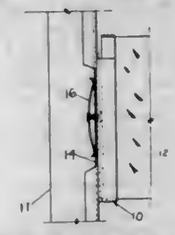
2,640,232
STORM WINDOW CONSTRUCTION
Lester F. Price, Detroit, Mich., assignor to Win-Sum Window Corporation, Van Dyke, Mich., a corporation of Michigan
Application August 7, 1950, Serial No. 178,092
2 Claims. (Cl. 20—55)



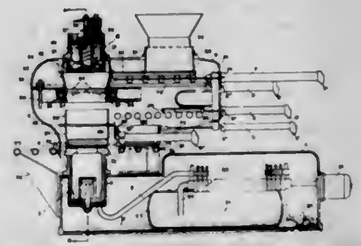
1. A storm sash for a casement window having a main frame, a vertical center post, and window sections at opposite sides of said center post and one of which includes a movable sash frame hingedly mounted on said main frame remote from said center post, said storm sash being adapted to be disposed externally of said window and mounted on the outer sides of said movable sash frame and said main frame, said storm sash comprising a plurality of members adapted to be secured to said movable sash frame of said one of said sections and defining a storm sash frame, a plurality of strips of insulating and sealing material adapted to be disposed between said members and said movable sash frame, a plurality of other members adapted to be secured to said main frame around said other of said sections and define a second storm sash frame, removable storm sashes mounted in said storm sash frames, one of said other members being adapted to extend along said center post and having an outwardly opening channel, another strip of sealing material mounted in said channel, one of said first named plurality of members being adapted to extend along the edge of said movable sash frame and be disposed adjacent said center post when the movable sash frame is in closed position, said one of said first named plurality of members having a longitudinally extending portion adapted to engage the one of said plurality of strips disposed between it and said movable sash frame, said one of said first named plurality of members also having another longitudinally extending portion adapted to overlap said one of said other members at the outer side thereof and engage said another strip of sealing material when said movable frame is in its closed position to provide a seal preventing the flow of air between said one of said first named plurality of members and said center post.

2,640,233
JALOUSIE WINDOW
Charles Slivers, Miami Beach, Fla.
Application February 8, 1952, Serial No. 270,563
5 Claims. (Cl. 20—62)

1. A louver retaining clip for a jalousie window comprising an elongated base member, a flange extending along one side of said base member and disposed at substantially right angle to said base member, said flange extending substantially the full length of said base member, louver retaining means contained at the lower end of said flange, a second flange mounted along the lower portion of said other side of said base member substantially parallel to said first flange, said second flange having a portion extending along the side of said base member but free of said base member, said portion being flexed in a direction toward said first flange thereby being capable of exerting a pressure in a direction toward said first flange, a third flange mounted along the upper portion of said other side of said base member, said third flange having its upper portion extending along the side of said base member but free of said base member, said last named portion being flexed in the direction of said first flange member thereby being capable of exerting a pressure in the direction of said first flange, and louver retaining means contained at the free end of said last named portion and extending in a direction toward a plane passing through said first flange whereby upon slidably inserting a louver in said clip, said louver retaining means is swung out of the path of movement of the louver and returns to its normal louver retaining position when the louver is positioned in said clip.



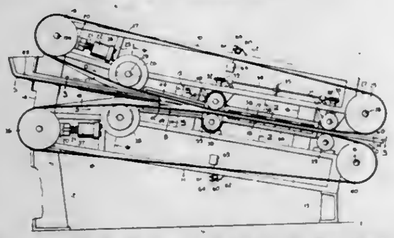
2,640,234
MACHINE FOR MAKING FOUNDRY MOLDS
Casto Ennio Bergami, Milan, Italy
Application December 12, 1950, Serial No. 200,385
In Italy December 13, 1949
8 Claims. (Cl. 22—25)



1. A machine for making foundry molds comprising a frame, a flask consisting of two flask elements and a pattern plate, a member slidably carried by said frame for sliding in a vertical direction, a support rotatably carried by said vertically slidable member and fastened to one of said flask elements, locking means carried by said rotatable support for fastening the other of said flask elements to the first mentioned flask element, a member supported for horizontal sliding movement by said frame provided with a piece interlocking with said pattern plate, supporting means for said pattern plate slidably carried by the frame for vertical movement under said

plate, a sand container on the frame having a bottom discharge port, closing means for said port whereby the sand falls down when said closing means are displaced for opening said port, hydraulic cylinders on the frame, pistons acting in said cylinders and operatively connected respectively to said vertically slidable member, to said horizontally sliding member, to said vertically slidable supporting means and to said closing means, a hydraulic cylinder on said first mentioned vertically slidable member, a piston acting in the last named cylinder and operatively connected to said rotatable support for rotating said support in said vertically slidable member, a hydraulic cylinder fixed to said rotatable support, a piston acting in the last named cylinder and operatively connected to said locking means, pipes for feeding a liquid under pressure to each of all the above cylinders, valves on said pipes governing the direction of flow of said liquid therethrough and a plurality of cams connected together for simultaneous rotation and operatively connected to said valves for actuating said valves cyclically.

2,640,235
METAL MANUFACTURING APPARATUS
Clarence W. Hazelett, Greenwich, Conn.
Application June 2, 1949, Serial No. 97,675
13 Claims. (Cl. 22—57.4)



4. In a machine of the character described, a pair of endless belts mounted on sheaves so as to have adjacent flights, means for driving said belts in the same direction and at the same speed in said adjacent flights, means for imparting opposed transverse concave curvature to said belts in parts of said flights, means to bring said belts into edgewise juxtaposition while so curved, means to introduce molten metal between said belts when in said juxtaposition, means for cooling said belts, and means beyond the means to introduce molten metal in the direction of travel of said flights for flattening said belts transversely while maintaining said edgewise juxtaposition.

2,640,236
LINE-GRIPPING DEVICE FOR PROPS
William G. Hume, Lancaster, Pa., assignor, by mesne assignments, to Quaker State Metals Company, a corporation of Pennsylvania
Application March 14, 1949, Serial No. 81,365
2 Claims. (Cl. 24—81)

1. A line-engaging means for a prop comprising a resilient distortionable and restorable body having at its base a stretchable socket for supporting said body on the top of a prop, said body tapering upwardly and outwardly from the stretchable socket in the form of an inverted frustum of a cone to a circular transverse section and tapering upwardly and inwardly from said circular transverse section to the tip of the body in the shape of a frustum of a cone complementary to the aforesaid inverted frustum, said body having an approximately circular opening extending transversely thereof and having a pair of substantially parallel walls contiguous with the transverse opening appreciatively spaced from each other for the passage of a line into or out of gripping engagement with the transverse opening and a pair of angularly inclined guide jaws on the inside of the tips of said walls for guiding



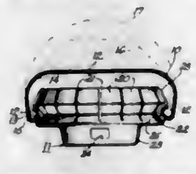
a line into the space between said walls into engagement with the transverse opening, said walls being resiliently displaceable for allowing the passage of the line into the transverse opening and restorable to normal position over the line for maintaining the line in the transverse opening, said circular transverse section of the body resisting the distortion forces to which said walls are subjected.

2,640,237
DETACHABLE KEY RING
Samuel John Vaisey, Rochester, N. Y., assignor to Hickok Manufacturing Co. Inc., Rochester, N. Y., a corporation of New York
Application September 15, 1949, Serial No. 115,864
1 Claim. (Cl. 24—84)



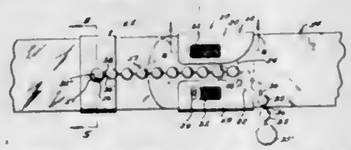
A terminal member for a key chain having an attaching element for permanently connecting the same with an end of a chain, said terminal member including a depending connecting stem formed with a head at its lower end, and a readily detachable key ring assembly comprising a key ring having an integral lateral projection extending upwardly therefrom and provided with a straight transversely extending pintle across its upper end, a spring clasp formed from a resilient strip bent midway its length to form opposing substantially flat side arms integrally connected at their lower ends and diverging outwardly toward the upper end of the clasp, the connected lower ends of the arms forming a transversely extending open-ended bearing circular in cross section and through which the straight transversely extending pintle of the projection loosely passes and pivotally mounts the clasp for tilting movement about the pintle relative to the key ring, the said side arms of the clasp having inwardly extending overlapped outer ends each having an opening therein through which openings when registering said headed connecting stem passes, the arms then moving away from each other to dispose their openings out of registry and thereby mount the clasp for turning movement about the stem, said clasp being detachable from said stem by holding the key ring and the clasp in one hand and with fingers of the said hand pressing the arms of the clasp toward each other and thereby moving their openings toward a registering position allowing longitudinal movement of the headed stem upwardly out of the openings, whereby the clasp and the key ring may as a unit be quickly disconnected from the stem and the terminal member and the chain carrying the same allowed to drop free from the clasp while still holding the key ring and the clasp in the said hand.

2,640,238
CLOTH-COVERED BUTTON
William C. Schuhr, Carpentersville, Ill.
Application April 7, 1951, Serial No. 219,877
9 Claims. (Cl. 24—113)



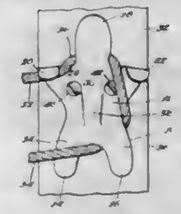
1. A cloth covered button, comprising a cup-shaped button member having the sides thereof extending inwardly and upwardly to form a frusto-conical surface, a pliable covering surrounding the outer surface of said button member and extending over said surface into the interior thereof, and a unitary shank member including a button eye portion and a plurality of upstanding spring fingers spaced around the periphery thereof, said spring fingers having a series of laterally extending ridges thereon adapted to engage the edge portions of said covering as said shank member is fitted into said button member, whereby said cloth covering is tightly stretched over the outer surface of said upper member.

2,640,239
STEP ADJUSTING SEPARABLE FASTENER
Carl Schneider, Rapid City, S. Dak.
Application November 28, 1950, Serial No. 197,869
1 Claim. (Cl. 24—116)



In a separable fastener for securing two articles together, a first strap adapted to be secured to one of said articles, a second strap having its intermediate portion adapted to be secured to the other of said articles, the ends of said second strap being each provided with a slot and being turned inwardly into spaced confronting relation with respect to each other to thereby form a channelway extending transversely of said strap, a pair of jaws positioned within said channelway and pivotally mounted intermediate their ends on the bounding walls thereof for swinging movement into and out of confronting relation with respect to each other, resilient means operatively connected to said jaws and said bounding walls of said channelway for biasing said jaws into confronting relation with respect to each other, a lug carried by one end of each of said jaws and slidable in the slot of the adjacent end of said second strap, a button secured to each lug for individually effecting the movement of said jaws out of contacting confronting relation with respect to each other, and flexible link means including a plurality of beads carried by said first named strap and having the beads selectively engageable between the other ends of said jaws.

2,640,240
ROPE CLAMP
Jerome J. Colonna, Chicago, Ill.
Application March 16, 1949, Serial No. 81,715
1 Claim. (Cl. 24—129)



A rope clamp comprising a metallic plate, a transverse horizontal bend on a comparatively large radius in the plate with the concave surface forward, openings in the plate along the bend for receiving fastening means, a central arm extending upwardly from the central portion of said plate, second and third arms, one on each side of the central arm, extending forwardly and downwardly below the central arm and spaced respectively from the central arm by a distance sufficient to pass a rope, said three arms being above the transverse bend, and a pair of spaced downwardly directed legs on the plate below the transverse bend, one on each side of a vertical line containing the upwardly directed central arm.

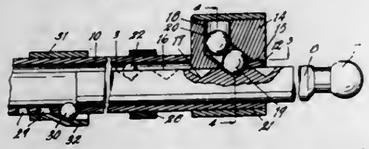
2,640,241
BUCKLE
Jean Dronoff, Rye, N. Y.
Application May 31, 1950, Serial No. 165,157
1 Claim. (Cl. 24—176)



A buckle rigid throughout and consisting of two parts fixedly secured together against independent movement, said buckle being adapted for permanent attachment to one of two flexible strap members to be connected, leaving the other of said strap members free for manipulation to effect engagement of the same with the buckle, one of said aforementioned parts of the buckle being a one-piece base member having downwardly bent prongs at opposite ends thereof and upwardly projecting lugs at opposite sides there-

of, said lugs being bent inwardly towards each other to overlie the base and to form therewith a loop extending transversely of the base through which the other of said aforementioned strap members is adapted to be passed, the said base member also having an upwardly extending projection adjacent to one end thereof and in line with the opening through the loop and adapted to be engaged with any one of a series of openings formed in said other strap member when passed through said loop, the free terminal portions of the loop-forming lugs being bent upwardly in substantially meeting relationship to close said loop, the other of the two aforementioned buckle parts being an enlarged, ornamental head member permanently connected to the bent up terminal portions of the loop-forming lugs, to thereby unite them and to substantially conceal the joint therebetween.

2,640,242
ADJUSTABLE BUCKLE FOR THE BODY OF ARTIFICIAL LIMBS
William C. Weimer, Jackson, Mich.
Application April 27, 1949, Serial No. 89,924
5 Claims. (Cl. 24—206)



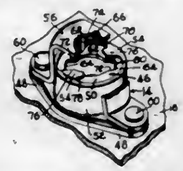
2. A buckle comprising an anchor member adapted to be carried by one end of a belt, a tubular member adapted to be pivotally secured to the other end of said belt, a stud slidable in said tubular member and having its outer end engageable with said anchor member, said stud having an upper surface with a series of depressions formed therein, the top of said tubular member being notched adjacent to the outer end thereof, a locking block having an under surface fitting within the notch in said tube, said block defining an inwardly and upwardly inclined passage opening at the bottom to the surface of said stud, a means removably securing said block to said tube, a locking ball positioned in said passage and engageable with said recesses in said stud, said locking block having a forwardly opening passage therein, and a releasing member positioned in said forwardly opening passage and engageable through the inner end thereof with said locking ball.

2,640,243
SNAP FASTENER STUD INSTALLATION
Walter I. Jones, Somerville, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 8, 1949, Serial No. 103,548
4 Claims. (Cl. 24—219)



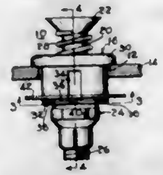
1. A snap fastener stud installation for imperforate thin flexible rubber and like articles, such as a bathing cap, comprising in combination with the material of said article a snap fastener stud part having an imperforate hollow dome-shaped head with a contracted neck joining said head to a lateral base flange, and a hollow rivet for attaching the stud to the material of the article, said rivet having an elongated tubular shank and an imperforate dome-shaped head at one end thereof and a lateral base flange extending from the shank at the opposite end thereof, said rivet shank being telescoped and upset within the hollow stud head and within the imperforate material of the article, the latter being stretched into said stud head and neck and gripped tightly between the head and neck of the stud and the upset head and shank of the rivet, the base flanges of said stud and rivet gripping the material less tightly than by said telescoped stud and rivet parts, thereby permitting stretching of the article material adjacent to said stud and rivet while the gripped portion therebetween remains tightly held in position.

2,640,244
FASTENER ASSEMBLY
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 27, 1951, Serial No. 233,909
10 Claims. (Cl. 24—221)



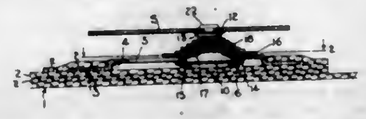
1. A panel fastener comprising a stud assembly and a socket assembly for mounting on opposing portions of superimposed panels; said stud assembly comprising bolt means for assembly into an opening in one panel, a friction lock nut disposed on the bolt, said nut having laterally extending bearing wings, said socket assembly comprising a bearing plate for attachment to the other panel opposite an opening therein, said bearing plate having an opening to receive the bolt and the nut, said opening having radially extending slot portions to allow the bearing wings of the nut to pass therethrough when the nut is in a predetermined rotational position relative to the bearing plate, whereby when the bolt and the nut are inserted through the bearing plate opening and rotated, the wings of the nut pass behind the bearing plate; a saddle member disposed opposite the bearing plate in spaced relation thereto and having an opening to receive the end of the bolt when the bolt and the nut are inserted through the bearing plate opening, said saddle providing a bearing surface for the wings of the nut to limit the distance the nut can pass beyond the bearing plate and being spaced from the bearing plate a sufficient distance to allow rotation of the wings of the nut therebetween, nut-tightening stop means disposed between the saddle and the bearing plate to engage the nut wings after the nut has been inserted into the bearing plate opening and rotated until the wings are behind the bearing plate, whereby further rotation of the bolt causes the nut to draw up on the bolt so that the nut wings bear tightly against the bearing plate, and nut-loosening stop means disposed between the bearing plate and the saddle to engage the wings of the nut when the bolt has been rotated to loosen the nut sufficiently that the nut rotates with the bolt, said nut-loosening stop means being positioned in relation to the bearing plate so as to stop the rotation of the nut during loosening with the nut wings in position to pass through the bearing plate opening.

2,640,245
MOUNTING OF THREADED FASTENING DEVICES
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 27, 1951, Serial No. 233,910
7 Claims. (Cl. 24—221)



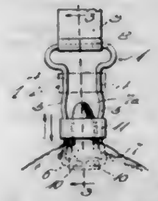
1. A bushing assembly for mounting into a panel opening, said bushing having a flange at one end, a rotatable locking plate assembled onto the other end, and longitudinal grooves disposed in the outer surface and extending from the other end, and a retaining ring for assembly onto the bushing, said ring having portions for extending into the bushing grooves, said locking plate having means for closing the ends of the grooves, and apertures in the edge thereof intermediate the groove-closing means, said apertures being adapted for alignment with the grooves to permit removal of the retaining ring by rotation of the plate into a predetermined position in relation to the bushing.

2,640,246
SEPARABLE HEADED FASTENING DEVICE
Kerian J. Shomber, Oakland, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 17, 1950, Serial No. 150,261
1 Claim. (Cl. 24—224)



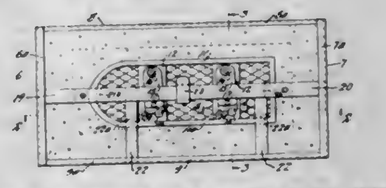
A hanger stud fastener member for attachment to a support by a rivet, said stud fastener member comprising a shank portion provided with a support-engaging and support-bearing head at one end thereof, an enlarged annular fastener-engaging stud portion at the opposite end of said shank portion and of a diameter substantially greater than the support-engaging head, a washer interposed between said head and stud portion with its inner diameter greater than the diameter of said head but less than the diameter of said stud portion, a conical coil spring having the inside diameter of its smaller convolution less than the diameter of said head and the outside diameter of its largest convolution less than the outer diameter of said washer, said smaller convolution being in tensioned engagement with said head and said larger convolution being in tensioned engagement with said washer and tending to urge said washer toward said stud portion, and said member being provided with an axial opening therethrough for the reception of an attaching rivet, and said opening having an outwardly extending enlargement at the stud end for the reception of a head of an attaching rivet extended therethrough.

2,640,247
GARMENT CLASP
Jack M. Pari, Ardsley, N. Y.
Original application April 15, 1946, Serial No. 662,353. Divided and this application June 7, 1951, Serial No. 230,337
6 Claims. (Cl. 24—251)



1. A garment clasp comprising a garment supported depending member, a tongue member formed from a body of pliable material said tapering from a relatively thick base portion to a relatively thin tip portion, said relatively thick base portion having recesses in the opposite edges thereof, said depending member terminating in inwardly directed ends which enter the recesses in said base portion and provide a pivot for said tongue for movement with said depending member, and a slidable band engaging the sides of said depending member and movable thereon to a position embracing said depending member and said pliable tongue member for holding the edge portion of a fabric between said pliable tongue member and the internal surface of said slidable band embracing said depending member and pliable tongue member.

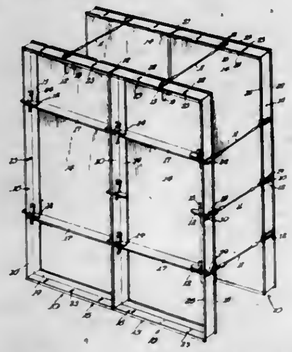
2,640,248
APPARATUS FOR PRODUCING VENTILATED STAVES OR BLOCKS
George J. Saffert, New Ulm, Minn.
Application December 30, 1950, Serial No. 203,637
3 Claims. (Cl. 25—121)



3. A mold for casting a ventilated silo stave, comprising an imperforate bottom panel, an upstanding outer peripheral wall structure mounted in fixed relation on said bottom panel and forming the peripheral edge portion of the stave being cast, an inwardly extending flange formed at the top of said peripheral wall, a split central mold structure divided by a plane disposed in upwardly spaced parallel relation to said bottom panel into two cooperating sections, means for securely clamping said sections together against opposite surfaces of an intermediate portion of a screen with the marginal portions of said screen extending outwardly beyond the central mold

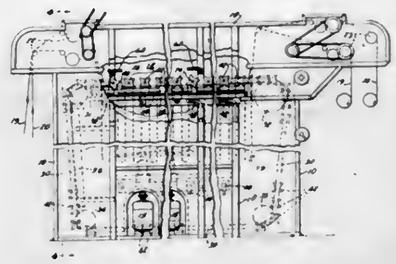
structure around the entire periphery thereof, the upper edge of said central mold structure extending upwardly a slight distance above the elevation of said peripheral flange, an elongated relatively stiff strap having a pair of clamping levers pivoted to the end portions thereof and adapted to underlie the end peripheral flanges and to overlie in clamping relation the central mold structure to securely clamp the same against the imperforate bottom panel, means for holding said lever elements in clamping position, and a pair of downwardly extending projections fixed to the bottom of said strap to engage the end walls of said central mold structure to prevent longitudinal shifting movement thereof, and a pair of laterally extending spacer elements having projections fixed on the bottom thereof for engagement against the sides of said central mold structure to prevent lateral shifting thereof and permit the entire mold structure to be vibrated during the setting of the casting maerial.

2,640,249
WALL FORM PANEL
Arthur H. Symons, Chicago, Ill., assignor to Symons Clamp & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 15, 1950, Serial No. 161,907
2 Claims. (Cl. 25—131)



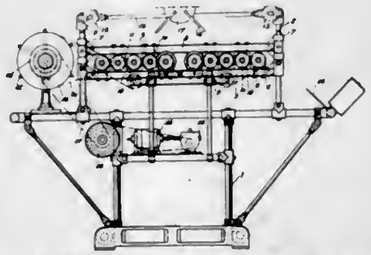
1. As a new article of manufacture, a panel adapted to be placed in edge to edge relation with like panels for purposes of forming a wall form and comprising a rectangular facing and a unitary facing-reenforcing frame in the form of four angle bars arranged in rectangular relationship around the facing and consisting of rigid inwardly extending coplanar flanges fitting against and secured to the rear face of the marginal portion of the facing, rigid rearwardly extending right angle flanges connected to the outer margins of the coplanar flanges, embodying spaced apart transverse bolt-receiving holes therein, and having on the rear side margins thereof outwardly and laterally extending integral ribs, and rigid extensions formed integrally with, and projecting forwards from, the front side margins of the rearwardly extending flanges, disposed in truly coplanar relation with said rearwardly extending flanges and in lapped relation with the edges of the facing, forming with the coplanar flanges a rectangular seat in which the marginal portion of the facing fits snugly, having the front edges thereof flush with the front face of the facing, and having on their front side margins outwardly and laterally extending integral full length ribs, the last mentioned ribs being of the same thickness as the first mentioned ribs, forming with said first mentioned ribs spaces for receiving certain apertured ends of combined tie and spreader members and having formed therein spaced apart notches in alignwardly extending flanges and adapted to accomment with the bolt-receiving holes in the rearmodate the portions of the combined tie and spreader members that are adjacent said certain apertured ends and to locate and hold said certain apertured ends of the combined tie and spreader members in registry with said holes.

2,640,250
CLOTH DRYING MACHINE
Ralph C. Parkes, Glenside, Pa.
Application October 18, 1949, Serial No. 122,085
7 Claims. (Cl. 26—68)



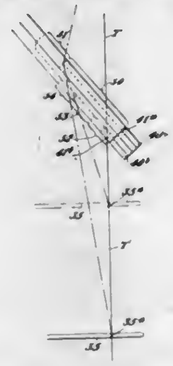
6. For use in a drying chamber, a plurality of poles for carrying the material to be dried, a plurality of projections at the ends of each said poles, means for supporting and propelling said poles through said drying chambers, a first set of spaced trippers below the path of movement of the ends of said poles for engaging alternate projections and effecting partial rotation of said poles about their respective axes, and a second set of spaced trippers also located below the path of movement of the ends of the poles for engaging other alternate projections and effecting further, partial rotation of said poles.

2,640,251
WARPING MACHINE
Maurice Eugène Leblanc, Chatou, France, assignor to Societe d'Etudes et de Modernisations pour l'Industrie Textile (S. A. R. L.), Clichy, France
Application February 21, 1950, Serial No. 145,393
In France February 21, 1949
3 Claims. (Cl. 28—35)



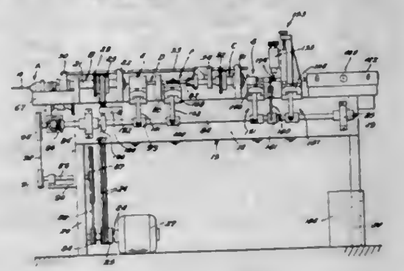
1. In a warping machine interposed between a rack feeding a plurality of yarn strands and a flanged yarn-receiving beam and comprising a supporting frame including girders and upstanding posts, primary smooth cylinders revoluble in the frame girders, collars vertically movable along said posts, further girders interconnecting said collars, bearings on said further girders, secondary smooth cylinders carried by the further girders and staggered to primary cylinders and arranged in the same horizontal plane when the collars are in their lower position, a gap being left between each pair of adjacent cylinders of a size larger than the cross section of the yarn to be warped, the set of cylinders forming a multiple yarn-furnisher, means for vertically shifting the movable cylinders and intermeshing pinions of equal diameters fast upon the respective ends of the cylinders, that improvement comprising a prime mover, a power transmitter between said prime mover and one of the pinions, a vertically movable contrivance in which the yarn-receiving beam idly revolves, means for vertically moving said contrivance, a roughened driving wheel revoluble in the frame and having a width matching the space between the yarn beam flanges, said beam contacting said wheel, a primary tapering pulley rigid with said wheel, a secondary tapering pulley rigid with the last cylinder of the set, a power transmitter interconnecting both pulleys, and a speed variator so associated with the pulleys as to cause the yarn-receiving beam to be driven at a constant tangential speed by said wheel, whereby the yarn strands from the rack wrap each cylinder over a portion of its circumference and are wound upon said beam after having left the last cylinder in the set.

2,640,252
SLUB CATCHER
Samuel L. Abbott, Wilton, N. H.
Application July 29, 1950, Serial No. 176,660
3 Claims. (Cl. 28—64)



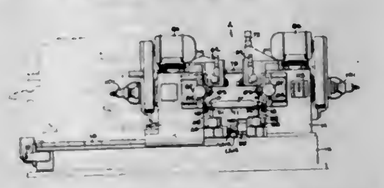
1. A slub catcher including blade portions defining two thread slots spaced apart in the direction of length of the thread, the first said slot being located toward the exit side and the second said slot being located toward the entrance side of the slub catcher, the blade portions at said slots being inclined at a slant to the normal path of the thread so that an enlargement encountering the first slot is deflected laterally and the thread thereby deflected lengthwise of the second slot, the second slot then being adapted to exert a further lateral deflecting action on the enlargement in case the enlargement then engages the blade portions at said second slot, said first slot having an enlarged exit attained by the thread after lateral deflection along said first slot, and the second slot leading into a reduced width extending thereof adapted to snag the thread, and a thread guide at the entrance side of the slub catcher movable to different positions to alter the angularity, relative to the blade portions defining the second slot, of a line connecting said thread guide and the enlarged exit of the first slot, so as to vary the sensitivity of the slub catcher.

2,640,253
AUTOMATIC METALWORKING MACHINE
Israel J. Fink and William V. McNeely, Cincinnati, Ohio
Application December 22, 1950, Serial No. 202,327
10 Claims. (Cl. 29—27)



4. In a machine of the class described a frame, a pair of work spindles journaled on the frame in axial alignment, power means for continuously rotating the spindles in unison, a work chuck for each spindle, a first work receiving, perforate tube positioned on the frame between the spindles in axial alignment with the work chucks, an intermittent feed-out means for advancing the work through the chucks and the tube, a second work receiving, perforate tube positioned on the frame adjacent to and in alignment with one end of the first work tube, a series of tool carrying, cross slides mounted on the frame adjacent the perforation in each tube, a cross slide disposed on the frame in lateral alignment with the adjacent ends of the said tubes, a stock severing tool on said slide, and means for simultaneously feeding and returning all the slides during rest periods of the feed-out means.

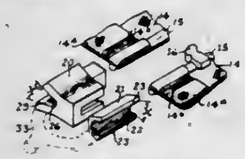
2,640,254
AUTOMATIC TRANSFER MACHINE TOOL
Earl M. Bowen, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application February 24, 1948, Serial No. 10,523
5 Claims. (Cl. 29—33)



1. In a machine tool, the combination of, a pair of laterally spaced bars supported for hori-

zontal reciprocation back and forth and in unison with each other, means formed on and spaced along said bars and interengageable with the opposite end portions of a series of workpieces to support the latter in uniformly spaced relation and hold the pieces against sidewise shifting relative to the bars, power actuated mechanism operable to move said bars back and forth and carry successive workpieces resting thereon into a predetermined position, abutments disposed above and facing downwardly toward said bars for engagement with a workpiece at said position, elevators engageable with the opposite end portions of the workpiece in said position and movable upwardly to carry the workpiece against said abutments, means engageable with opposite end portions of the elevated workpiece and operable during the approach thereof to said abutments to center the workpiece sidewise, separate means engageable with opposite end portions of the located workpiece and movable to center the latter endwise, and means for clamping the workpiece after location and centering thereof sidewise and endwise.

2,640,255
SEPARATING END FITTING FOR SLIDE FASTENERS
Frederick L. Morrow, New Britain, Conn., assignor to The North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut
Application August 15, 1946, Serial No. 690,651
2 Claims. (Cl. 29—148)



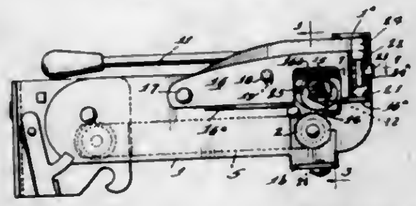
1. In a method of applying to the edge reinforced lower stringer tape ends of a slide fastener the components of a separating end fitting comprising telescopically engageable complementary pin and retainer members, said slide fastener including complementary stringer tapes having thereon detachably engageable fastener members with a slider supported thereon for sliding movement to engage and disengage said fastener members progressively, pulling up the slider of said slide fastener at least partially for connecting said tapes and aligning them longitudinally, removing such lower end portions of the edge reinforcement from each of the fastener stringer tapes that the ends of the remaining edge reinforcements of both tapes are substantially longitudinally aligned, folding the end portions of both tapes over upon themselves substantially at the ends of the remaining edge reinforcements, compressing portions of the folds adjacent the lower ends of the remaining edge reinforcements to decrease the double thickness thereof, fixedly supporting in laterally spaced relation a pin member and a retainer member each having an outwardly directed longitudinal spread-jawed tape edge receiving channel, pulling the connected stringer tapes apart for a substantial distance above the folded portions to free the folded end portions for free manipulation, then simultaneously threading the folded end edge portions of each of said stringer tapes an equal distance into one of said channels and simultaneously clinching said members to said stringer tapes by clinching the jaws of said channels thereto.

2,640,256
VALVE GUIDE DRIVER
Joseph Sunnen, Clayton, Mo.
Application May 3, 1948, Serial No. 24,717
6 Claims. (Cl. 29—213)



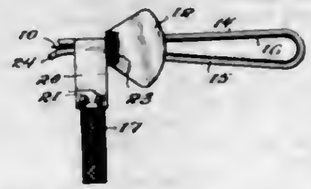
3. In a device of the character described, a driving tool for displacing sectional valve guides of a valve assembly for an internal combustion engine to permit removal of the guide lock, said driving tool including a shank having an impact end and terminating at the other end in an anvil portion, said anvil portion being downwardly turned with respect to the longitudinal axis of the shank and terminating in a bottom face for engaging the upper face of valve guides, said down turned portion being formed in one face with a vertical valve stem receiving groove, a transversely arcuate valve engaging recess formed in said tool above said vertical groove for engaging one side of a valve, a transversely adjustable clamp supporting member supported by said driving tool above said arcuate recess and transversely adjustable with respect to said tool, a clamping element pivoted to one end portion of said member on a horizontal axis, said clamping element having a valve engaging face and being laterally adjustable with respect to said shank upon transverse adjustment of said supporting member to position the valve engaging face of the clamping element into clamping association with the opposite side of the valve.

2,640,257
CAN OPENER
Herbert A. Berkman, Chicago, Ill., assignor to Zim Manufacturing Company, a corporation of Illinois
Application August 14, 1952, Serial No. 304,369
4 Claims. (Cl. 30—9)



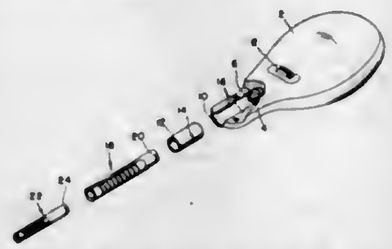
4. A can opener comprising a body member, a feed wheel mounted on the front of the latter for rotation about a fixed axis, a sturdy journal extending through the body member above said wheel with its axis inclined downwardly from rear to front, a cutter mounted on the front end of the journal, eccentrically of the axis, for bodily movements from and toward the wheel as the journal is rocked, an arm mounted on the front of the body above the journal for limited swinging movements from and toward the latter, a spring acting on said arm and tending constantly to hold it in the position nearest the journal, a cam fixed to the front end of the journal behind the cutter, a lug on the body member beside the cam, said cam having a nose that engages said lug when the cutter is closest to said wheel, said cam also having a part to engage and cooperate with said arm yieldingly to lock the journal against movement in the direction to carry the cutter toward said wheel when the cutter is farthest from the wheel, an operating lever fixed to the rear end of the journal, and means to rotate the feed wheel.

2,640,258
SELF-SHARPENING SAFETY RAZOR
William F. Eckert, Manch Chunk, Pa.
Application August 7, 1951, Serial No. 240,713
5 Claims. (Cl. 30—36)



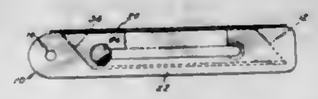
1. A safety razor comprising a strip of material bent midway of the length thereof forming substantially parallel arms providing a U-shaped head, one arm of said head having a loop extended therefrom and positioned around the other arm thereof, a sharpening surface on the inner surface of the head, a handle having a threaded stem positioned with the stem threaded in the loop and adapted to engage said other arm of said head for moving said arm relative to said one arm of said head, and a safety razor blade having gripping elements on the ends positioned in the head and adapted to be clamped by the handle between the arms of the head for shaving.

2,640,259
ELECTRIC SHAVER
Anthony P. Miller, Pleasantville, N. J.
Application October 29, 1948, Serial No. 57,143
1 Claim. (Cl. 30—43)



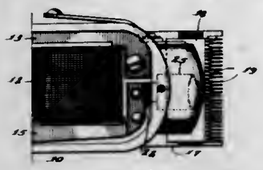
A cutter for hair or the like comprising a housing member having a cylindrical bore and a thin wall provided with parallel slots for the entrance of hairs, each of said slots being displaced from a radial plane through said housing, a cutting means within said bore comprising a split cylinder provided with parallel slots, each of said slots being displaced from a radial plane through said cutting means, each of the slots in said housing member extending in the same general direction as the slots in said cutting means but at an angle further displaced from a radial plane than the angle of the slots in said cutting means, flexible means within said cutting means urging it to expand outwardly into engagement with said bore, and driving means extending through said cutting means and connected to both ends of said cutting means for rotating said cutting means, the arrangement being such that the cutting edges of all of the slots in said cutting means meet the cooperating cutting edges of the slots in said housing member progressively in a direction opposite to the direction of rotation of said cutting means to apply a shearing action on hairs entering the slots over the entire area of the cutting surface of the cutter.

2,640,260
RETRACTABLE POCKET KNIFE
Clarence E. Taylor and Stephen J. Gwoosh, Newark, N. J.
Application April 30, 1948, Serial No. 24,116
1 Claim. (Cl. 30—162)



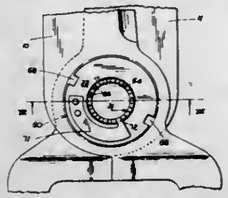
A knife comprising a sheath formed of a single piece of sheet material bent upon itself to form a channel between opposite first and second walls thereof, whereby to provide a closed longitudinal side and an open longitudinal side, a first longitudinal slot in said first wall of uniform width throughout, a longitudinal slot in said second wall of equal length with said first longitudinal slot and equal in width thereto and in register therewith throughout except for a portion adjacent both ends of said slot in said second wall, said last named end portions being enlarged, a knife blade slidably disposed in said channel between said opposite sheath walls, said knife blade having a longitudinal sharpened cutting edge, a longitudinal non-sharpened edge, inner and outer transverse edges, stop means carried by said blade and engaging said slots, for guiding the motion of the blade between extended and retracted positions, a portion of said longitudinal non-sharpened edge of said blade adjacent said inner transverse edge projecting inwardly of said sheath walls a greater distance than that of said longitudinal cutting edge whereby to provide a better fulcrum for the blade when in said extended position, said knife blade having an opening formed therethrough, a stop shaft having its shank extending through said knife blade opening and both of said slots and having a first enlarged head adapted to be seated in either of said enlarged slot openings, spring means biasing said stop shaft in a direction normally to seat said first head in one of said enlarged slot openings when overlying the same, whereby the blade may be locked automatically in either position, a second enlarged head at the opposite end of said stop shaft from said first enlarged head, said spring means comprising a coil spring surrounding said stop shaft and interposed between said second enlarged head and the outer surface of said first sheath wall.

2,640,261
TRANSMISSION FOR ELECTRIC HAIR CLIPPERS
Leo J. Wahl, Sterling, Ill., assignor to Wahl Clipper Corporation, Sterling, Ill., a corporation of Illinois
Application January 2, 1951, Serial No. 203,975
4 Claims. (Cl. 30—210)



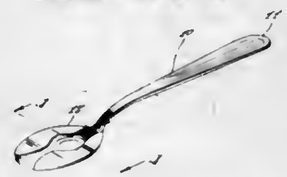
1. In a vibrator type electric hair clipper, a power transmitting linkage connecting an armature to a movable cutter blade comprising a tensioned leaf spring carried by said armature and extending forwardly thereof toward said cutter blade, and a finger of resilient plastic material, said finger being generally rectangular in cross section and attached to the end of said spring with the axis of the free end of said finger being inclined to the axis of said spring, the free end corners of said finger being beveled in a tapering manner, a portion of the free end of said finger being received within a recess in said cutter blade, said recess being shaped to seat the beveled free end of said finger.

2,640,262
PIVOT FOR SHEARS
John Spon, London, England
Application March 8, 1946, Serial No. 653,024
In Great Britain March 13, 1945
1 Claim. (Cl. 30—270)



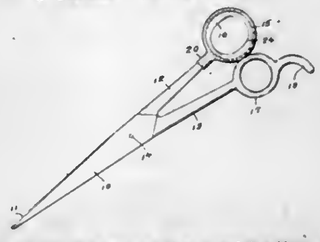
In a cutting tool having a pair of cutting blades, in combination, a floating fulcrum for said blades, said fulcrum comprising a first hollow tube externally provided with male micrometer threads and having a peripheral flange at one end and a continuous, circularly arranged set of spaced radial slits at the other end, whereby teeth are formed, a second hollow tube provided internally with female micrometer threads, mating with said male threads, and having a peripheral flange at one end, and a resilient arm secured to the outer face of the last-mentioned flange and adapted to be flexed toward and away from said last-mentioned flange for locking engagement with any of said teeth so as positively to prevent relative rotation of said tubes in either direction, said last-mentioned flange being formed with an annular undercut seat facing toward the flange on said first hollow tube, and including an annular cover cap adapted to overlie said last-mentioned flange and being formed with circular inner and outer axial walls to extend into said first hollow tube and around said last-mentioned flange, respectively, said circular outer wall being formed with an inwardly turned edge for resilient engagement under said seat to hold said cap on said last-mentioned flange.

2,640,263
E-Z FEEDING BABY SPOON FOR LIQUID OR MEDICINES
Adolph Dieterich, Brooklyn, N. Y.
Application March 8, 1952, Serial No. 275,554
1 Claim. (Cl. 30—326)



A spoon for liquids comprising a handle and a bowl, said bowl having a doubly curved contour with a relatively narrow outlet end, a top plate having a central longitudinally extending slot, the said slot dividing the plate into two sections, said sections being attached along their outer edges to the bowl perimeter the said slot having a widened portion near the rear end of the slot to permit the feeding of liquid into the bowl, the front end of the slot being widened to provide the said outlet for the spoon, the front ends of each of said sections being rounded and preventing lips from sealingly contacting the bowl surface.

2,640,264
THUMB GUIDE SHEAR HANDLE
Cecil J. Sullivan and Walter B. Wright, Modesto, Calif.
Application December 27, 1950, Serial No. 202,864
2 Claims. (Cl. 30—341)



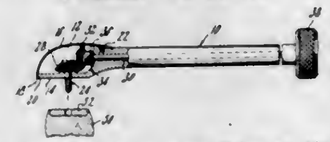
2. In a pair of shears, the combination which comprises a pair of pivotally connected cutting blades and each blade having a handle portion at one end thereof, a ring at the end of one handle portion, a ball race in said ring, a thumb guide having a ball race in the outer surface thereof positioned in said ring and balls positioned between the guide and ring within the ball races for rotatably mounting the guide in the ring.

2,640,265
ARTIFICIAL DENTURE AND METHOD OF MANUFACTURE
Eugene J. Vaillancourt, Fitchburg, Mass.
Application October 30, 1948, Serial No. 57,580
4 Claims. (Cl. 32—2)

3. A denture comprising a group of separate artificial teeth composed of moldable material, with the members of the group being connected together by transverse ribs composed of the same moldable material of which the teeth are composed and a plate for use in the mouth made of a moldable material similar to that employed for the teeth and their connecting ribs.

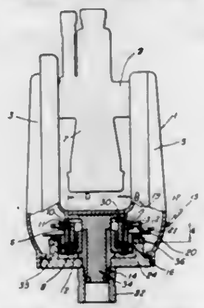


2,640,266
INLAY EXTRACTOR
Joseph Sarti, New York, N. Y.
Application July 3, 1952, Serial No. 297,003
8 Claims. (Cl. 32—43)



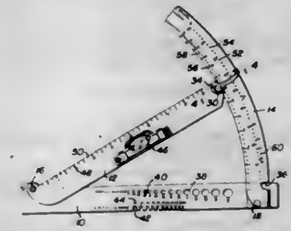
1. An inlay extractor comprising an elongated support, a self-tapping jack member arranged transversely of one end of said support and journaled thereon, a shaft extending longitudinally of said support and rotatably supported thereon, coupling means for drivingly connecting said shaft to said self-tapping jack member, manually operable means carried exteriorly of the other end of said support and operatively connected to said shaft for rotating said shaft, and bearing means on said self-tapping jack member for forming a substantially stationary contact with the tooth underlying the inlay to be extracted.

2,640,267
THEODOLITE
George Geier, Ridgefield, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application June 30, 1949, Serial No. 102,299
9 Claims. (Cl. 33—46)



1. In a theodolite having a telescope mounted for rotation about an axis, a protractor member of substantially uniform coefficient of expansion provided with graduations for indicating the angular position of said telescope on the axis, a supporting member for said protractor member having a different coefficient of expansion than said protractor member and which is mounted for rotation about the axis, a holding member having substantially the same coefficient of expansion as said supporting member which expands and contracts in a radial direction at a different rate for any temperature variation than said protractor member, said holding member and said supporting member being held together so that said holding member may not move with respect to said supporting member in any but the axial direction, an inclined surface on one of said members positively engaging the other member with substantially uniform pressure regardless of the temperature variation and retaining said protractor member positively and without strain in centered position on the axis for all temperatures and means for reading said protractor member to determine the angular position of said telescope on the axis.

2,640,268
LAYOUT INSTRUMENT
Ellis Thompson, West Palm Beach, Fla.
Application January 17, 1952, Serial No. 266,869
3 Claims. (Cl. 33—88)

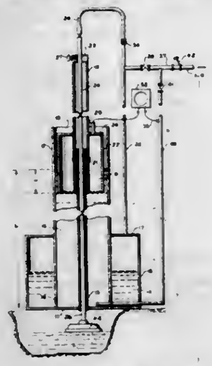


1. A layout instrument comprising a base section, a pair of arms pivotally secured to the ends of said base section, one of said arms having graduations thereon, a slide and index member carried by the other arm and slidably received on the said one arm, and means carried by the slide and index member for lockably engaging the said other arm to lock the arms together, said slide and index member including a substantially U-shaped resilient clip, said locking means comprising a fastener joining the limbs of said clip.

2,640,269
LIQUID LEVEL INDICATOR
Charles L. Seefluth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 30, 1949, Serial No. 136,112
3 Claims. (Cl. 33—126)

1. A liquid level indicator comprising a closed liquid reservoir chamber; a float chamber open at the top and closed at the bottom; means connecting the bottom of said reservoir and the bottom of said float chamber; a float in the general form of an inverted cup disposed in said float chamber, there being liquid in said reservoir and said float chamber upon which said float rides; a slidable pipe rigidly attached to said float; a sensor device mounted on the bottom of said slidable pipe, said sensor including an escape valve closable on pressure contact with the liquid being gauged; means for guiding movement of said slidable pipe, sensor and float in a vertical direction; means for supplying an identical fluid pressure to the upper end of said slidable pipe and thus to said sensor and to the reservoir chamber whereby the level of the liquid in said float chamber and the position of said float will be established upon contact of said sensor with the liquid to be gauged; and pressure responsive means communicating with the bottom of said float chamber and with the inside of said float

and adapted to measure the pressure differential existing between said two points, said means



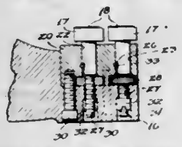
being calibrated in terms of the vertical position, viz, liquid level, at said sensor.

2,640,270

LOCKING MEANS FOR SNAP GAUGE MEASURING PINS

Erik H. Aldeborgh, Poughkeepsie, N. Y., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y., a corporation of New York

Application November 25, 1949, Serial No. 129,273
3 Claims. (Cl. 33—168)



1. A mounting and locking means for a gaging pin of an adjustable limit snap gage of the type having a U-shaped frame with a plane faced anvil mounted in one extremity of the frame and cooperating gaging pins mounted in the opposed extremity, comprising, a gaging pin, a block mounted on one extremity of the gage frame and serving as a mounting for the gaging pin, said block having a bore therein perpendicular to the anvil face, a shank on the gaging pin fitting said bore, a threaded extension on said gaging pin shank, a shouldered bore in the gage extremity in alinement with said block bore, said shouldered bore forming a clearance for said threaded shank extension, and locking means comprising a pair of nuts threaded on said threaded shank extension, one of said nuts lying against the shoulder in said bore, and the other of the nuts lying against the opposite face of said extremity and clamping the threaded shank in adjusted position with respect to said extremity, said block and the anvil.

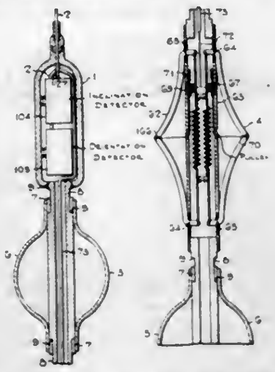
2,640,271

WELL LOGGING METHOD AND APPARATUS

Frank G. Boucher, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 27, 1948, Serial No. 23,490
8 Claims. (Cl. 33—174)

1. Well logging apparatus comprising, in combination, a body adapted to be lowered into a bore hole, at least three profiling arms movably held by said body and equally spaced circumferentially about said body, means urging each of said profiling arms independently outwardly from said body, means adapted to measure the independent movement of each of said profiling arms relative to said body, a first centering means positioned on said body above said profiling arms, a second centering means positioned on said body below said profiling arms, said first and second centering means acting to center



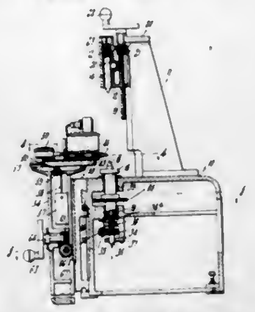
said body in the bore hole and to align the body with the bore hole, azimuthal orientation means and inclination measuring means positioned in said body, and recording means associated with said profiling arms, said azimuthal orientation means and said inclination measuring means to record simultaneously indicia representative of the independent movement of each of said arms, the azimuthal orientation of a selected point on the body and the inclination of the body from the vertical.

2,640,272

CONTOUR MEASURING APPARATUS

Arthur I. Bean, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application July 20, 1946, Serial No. 685,025
7 Claims. (Cl. 33—174)



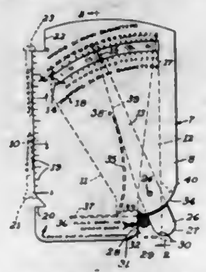
1. An apparatus for comparing surface contours comprising a supporting structure, spindles rotatably mounted side by side on said supporting structure, one of said spindles being adapted to hold a master form and the other to hold a work piece, a saddle mounted on the supporting structure to be movable in a path transverse to the spindle axes, a carriage mounted on the saddle with provision for movement in a path transverse both to the saddle path and to the spindle axes, contactors on the carriage protruding therefrom in positions such that one contactor is adapted to bear on a surface of a master form held by one of said spindles and the other to bear on a surface of a work piece held by the other spindle, one of said contactors being normally fixed immovably on the carriage and the other being movable relatively to the carriage in substantial parallelism with the carriage path, and mechanism for causing rotation of the spindles at a prescribed rate simultaneous with travel of the saddle.

2,640,273

OUTSIDE DIAMETER GAUGE FOR SCREWS, ETC.

Walter G. Larson and Elmer E. Broberg, Rockford, Ill., assignors to Elco Tool and Screw Corporation, Rockford, Ill., a corporation of Illinois

Application October 13, 1949, Serial No. 121,114
6 Claims. (Cl. 33—178)



3. A gauge for outside measurements, such as the diameter of screws, et cetera, comprising a generally rectangular card-like body formed by a pair of spaced sheets of material, at least one of which has an arcuate window portion and measurement graduations arranged in an arc concentric with and adjacent the arcuate window, and an elongated pointer movable relative to and visible through the window and pivoted at one end between said sheets substantially at the center of said arcs and near one corner of said body, said corner portion of the two sheets being cut away adjacent the pivot to define a straight edge substantially parallel to and spaced laterally from an adjacent edge of said body and constituting a stationary jaw on said body against which the cylindrical part to be measured may be engaged transversely, and said pointer having a feeler or handle extension on its pivoted end disposed in the cut-away corner portion and providing on its one side a straight edge adapted to have flush engagement with the straight edge defining the stationary jaw and defining a movable jaw movable toward and away from said stationary jaw.

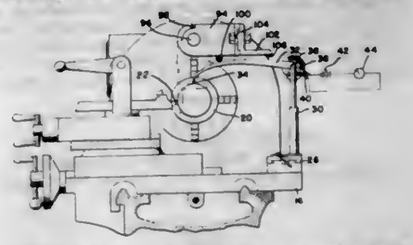
2,640,274

APPARATUS FOR CONTINUOUS GAUGING

Melvin A. Crosby, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application January 25, 1947, Serial No. 724,319
6 Claims. (Cl. 33—181)

1. In a workpiece size indicating device for a machine tool having a tool supporting carriage, a stationary workpiece supporting means having a rotational axis for a workpiece, and a movable workpiece cutting means: support means on said carriage horizontally and vertically slidable relative thereto, a feeler arm pivotally mounted on said support means, said cutting means being horizontally and vertically adjustable relative to the carriage, and means for positioning said cut-



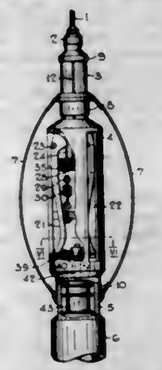
ting means and said feeler arm along said axis in a predetermined relation relative to each other, said positioning means comprising a gauging means pivotally mounted on said stationary workpiece supporting means and being movable into engagement with said arm and cutting means.

2,640,275

ORIENTED DIP AND STRIKE INDICATOR FOR BOREHOLES

Frank G. Boucher, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 29, 1949, Serial No. 90,324
4 Claims. (Cl. 33—205.5)



1. An apparatus for logging a bore hole comprising a body adapted to be raised and lowered in the bore hole, a first set of centering springs supported by said body and a second set of centering springs supported by said body in spaced relation to said first set of centering springs lengthwise of said body whereby said body is at all times maintained in the center of and aligned with said bore hole, a set of at least three profiling arms movably held by said body and arranged symmetrically about a horizontal circumference thereof in a manner placing said arms into contact with the walls of the bore hole at essentially the same level as one of said sets of centering springs, means urging each of said arms into independent contact with the walls of the bore hole, means for continuously measuring the distance from the centerline of said body to the point of contact of each of said arms with the

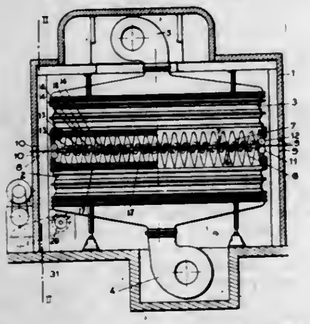
walls of the borehole, a device within said body for continuously measuring the azimuthal position of a reference point on the body, a device within said body for continuously measuring inclination of the body from the vertical, means at the earth's surface adapted to record indicia for determining the measurements made by said azimuth measuring device, said inclination measuring device and said distance measuring means, and electrical circuits connecting each of said measuring means with said recording means.

2,640,276
PLUMB BOB LINE SPOOL
Chelsea S. Williams, Metropolis, Ill.
Application April 25, 1952, Serial No. 284,320
3 Claims. (Cl. 33—217)



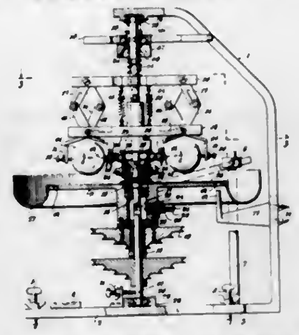
1. A plumb bob line spool comprising: a body formed with an axial bore and having a portion on which a check line can be wound, said portion being formed as an axial extension of the body and having a counterbore coaxial with and communicating with said bore; a clamping disk having a center opening and arranged adjacent said portion, said disk including a center boss extendable into the counterbore to hold the body and disk assembled in coaxial alignment; circumferential lips extending toward one another from the disk and body respectively, said lips being circumposed about said portion for protectively enclosing the wound line; and a spring extending through said bore and opening and engaged at opposite ends with the body and disk, said spring being tensioned to yieldably urge the body and disk toward one another, to force said lips into frictional engagement and thereby clampably engage said check line between the lips.

2,640,277
CONVEYING MEANS FOR WEBS OR SHEETS
Julien Dungler, Basel, Switzerland
Application March 11, 1949, Serial No. 80,932
In France March 24, 1948
10 Claims. (Cl. 34—160)



1. The combination, in a drying and like treating apparatus for lengthy cloth and like cellulosic material, of a plurality of spacedly and oppositely arranged blowing nozzle means for directing drying fluid onto said material, exhaust means for removing spent fluid and positioned between said blowing nozzle means, said oppositely arranged nozzle means and exhaust means forming a path therebetween along which said material travels, with conveying means for said material and arranged to extend along and within said path, said conveying means comprising a first group of rotatable conveying members extending lengthwise of said nozzle means and with their axes crosswise to said material, said rotatable conveying members having surfaces for guiding said material along said path past said nozzle means, and a second group of substantially flexible conveying members extending substantially at right angles to said axes of said rotatable conveying members and provided with conveying surfaces recessed a predetermined distance below the surfaces of said rotatable conveying members to thereby normally avoid contact with the material, said flexible conveying members being adapted to support and maintain said material in said path and substantially in contact with said rotatable conveying members if said material suffers a break along its path past said nozzle means.

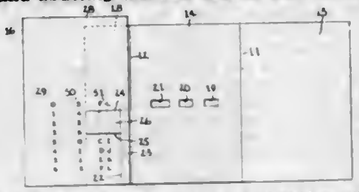
2,640,278
TANGENTIAL AND ROTATIONAL MOTION INDICATING DEVICE
Franklin B. Wells, Montclair, N. J., assignor of one-half to Ellis-Foster Company, Montclair, N. J., a corporation of New Jersey
Application November 16, 1949, Serial No. 127,698
5 Claims. (Cl. 35—19)



1. Apparatus for demonstrating tangential and rotational motion comprising, in combination, an upright supporting frame, a base, a driven vertical shaft extending from the top of the frame to the base, a horizontal flat disc on said shaft, graphic recording means sensitive to the pressure of a freely rolling ball and placed on top of said disc, horizontal ball-holding arms positioned above said disc, balls revolvably retained by said arms, and trigger means for releasing said balls during differential motion of disc and arms, whereby a graphic path of said balls when released is traced on said graphic recording means.

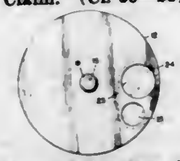
2,640,279
DETECTOR FOR COUNTERFEIT MONEY
Alexander Dolinsky, Cleveland Heights, Ohio
Application February 6, 1951, Serial No. 209,631
1 Claim. (Cl. 35—24)

A detector of the character described, comprising an open-ended envelope, consisting of an apertured front panel, a back panel integral with said front panel, and a flap integral and coextensive with said front panel and secured to the inner face of said back panel, said flap having a linear longitudinally extending edge, a data card, visible through said apertures in said front panel, slidably contained in said envelope and longitudinally movable relatively thereto, said card having a longitudinally extending slit therein overlying said flap, and means traversing said slit and abutting one end of said slit when said



card is aligned with an open end of said envelope, whereby to limit longitudinal movement of said card, said means comprising a portion of said flap bounded by the longitudinal edge of said flap and parallel longitudinally-spaced slits extending from said edge to the juncture between said flap and said front, whereby the longitudinally extending marginal portion of said card which overlies said flap is spaced from said back panel by the thickness of said flap and is equally spaced from the front panel by the thickness of said means.

2,640,280
CHILD'S DRAWING DEVICE
Irving Stone, Chicago, Ill.
Application May 29, 1950, Serial No. 165,020
1 Claim. (Cl. 35—28)



A drawing device of the class described comprising in combination, a circular bottom wall having a center shaft, a circular disc with a center opening to fit over said shaft, said circular disc having black and white pictures suitable for tracing substantially equally spaced around said disc and smaller color guide pictures identified with and spaced to one side of each corresponding respective black and white picture, said disc being provided with two short slits at right angles to its periphery to form a tab which fits into a corresponding slot of said underlying bottom wall to prevent said disc from turning, and a circular cover wall having a larger and smaller window of transparent material spaced to display said black and white and corresponding colored pictures of said underlying circular disc therethrough, said cover wall having a center bearing to fit over and turn on shaft of said bottom wall, said bearing extending somewhat above said cover wall to provide a gripper in order to rotate said top cover wall to select the desired pictures on said circular disc.

2,640,281
LEGGING WITH A METAL FRAME
Galen E. Murphy, Perryton, Tex.
Application October 23, 1951, Serial No. 252,738
1 Claim. (Cl. 36—2)

A legging for the purpose stated, comprising a tubular portion of a loosely woven fabric fitting

snugly about the lower part of the leg and having an enlarged lower end portion shaped to fit about the ankle and the outer side of the top edge portion of a low quarter type of shoe, an annular cuff of a heavier woven fabric integral with the top end of said tubular portion, a substantially rigid frame formed of a flat strip material to provide two substantially U-shaped portions having their legs joined in end-to-end relation, one of said frame portions extending upwardly at an



obtuse angle with respect to the other frame portion, a hem formed about the free edge of the said enlarged end portion and enclosing said frame, the said one frame portion straddling the vamp of the shoe and the other frame portion the heel part of the shoe, studs projecting from the outer sides of the connected ends of the legs of said frame portions, and a strap passing beneath the shank of the shoe and having its ends engaged with said studs.

2,640,282
FOOT-ARCH SUPPORT STRUCTURE
Walter Wisbrun, Cleveland Heights, Ohio
Application April 4, 1950, Serial No. 153,789
4 Claims. (Cl. 36—8.5)



2. In footwear, a low shoe including a sub-arch firm support secured to the shoe sole, said support being recessed toward the mid-line of the shoe at its inner edge, and a support extension therefrom in pliant sheet form having its lower edge anchored along the inner edge of said firm support and its top edge anchored all along the shoe top-edge.

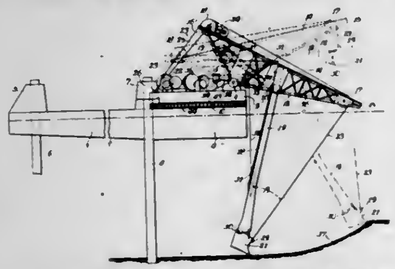
2,640,283
BOWLER'S SHOE
Joses McCord, Hollywood, Calif.
Application May 10, 1952, Serial No. 287,113
3 Claims. (Cl. 36—25)



1. A shoe sole having a tread surface and formed with a recess in said surface having marginal walls, including end walls each of which is formed with a recess, a traction insert seated

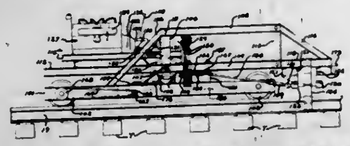
in said recess, and end tangs on said insert detachably engageable in the recesses in said end walls.

2,640,284
DREDGE
Fridtjof G. Nielsen, Chicago, Ill.
Application August 7, 1947, Serial No. 767,109
6 Claims. (Cl. 37—71)



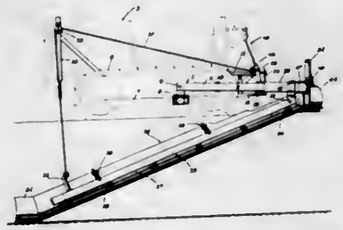
1. A digging machine comprising, a supporting frame rotatably mounted on a vertical axis, an elongated boom extending outwardly from said frame and pivotally mounted intermediate its ends on said frame on one side of said vertical axis and within the perimeter of said frame, outer and inner sheaves disposed at the outer and inner ends of said boom, a dipper attached to a dipper handle pivoted on said boom intermediate the boom pivot point and the outer end of said boom and reciprocable relative to the boom, main hoist machinery mounted on said frame on the opposite side of said vertical axis, a main hoist cable connected to said dipper and extending over said outer sheave and thence rearwardly over said inner sheave and downwardly to said main hoist machinery, boom hoist machinery mounted on said boom adjacent the inner end thereof, and a boom hoist cable affixed to said frame and extending to said boom hoist machinery.

2,640,285
ROTARY TYPE BALLAST REMOVING APPARATUS
Knox Kershaw, Birmingham, Ala.
Application September 20, 1946, Serial No. 50,160
3 Claims. (Cl. 37—104)



1. In apparatus for operating upon ballast between the crossties of a railroad track with the rails in place, a vehicle having a frame and wheels disposed to run on the rails, an implement frame embodying a pair of spaced lower members extending generally parallel with the rails as viewed in plan and pivotally connected intermediate their ends to the vehicle frame, members disposed above and parallel with the lower members and pivotally connected to a portion of the vehicle frame adjacent their rear ends, the forward ends of all of said members extending substantially to the front of the vehicle, links pivotally connecting the forward ends of said members, a member overhanging the forward end of the vehicle and pivotally connected to the forward ends of the lower members to retain a substantially fixed angularity with respect to the rails in all positions of the implement frame, a transverse frame carried by the overhanging member, rotary ballast working implements carried by the transverse frame, a prime mover supported from the rear ends of said lower members and disposed to substantially balance the implement frame about its pivot points, means to drive the ballast implements from the prime mover, means to pivot the implement frame on its pivots thereby to raise and lower the implements with respect to the track, and means to connect the prime mover to the vehicle wheels to propel the same along the rails.

2,640,286
DITCH CLEANER AND RIDGER
Ernest V. Briscoe, Kerman, Calif.
Application April 11, 1950, Serial No. 155,195
7 Claims. (Cl. 37—155)

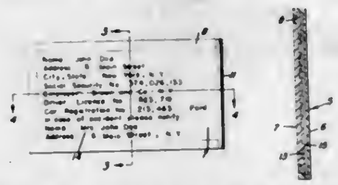


1. An earth working implement comprising a frame adapted to be mounted on a tractor and having a part adjacent one side of the latter, an extension arm attached at its inner end to said part of the frame, the extension arm projecting laterally outward from the tractor, a diagonal stay bar connected between the extension arm and the frame, a longitudinal beam along said one side of the tractor, means mounting the beam at its rear end in connection with the outer end of the extension arm for lateral swinging adjustment to a forwardly diverging and selectively to a downwardly inclined working position, adjustable suspension means between the front end portion of the beam and the tractor, and a longitudinal blade secured to the beam on the side adjacent and facing the tractor; the extension arm being pivoted on said frame part for swinging adjustment about an upstanding axis to dispose the outer end of the arm different distances laterally out from the tractor, the diagonal stay bar being adapted to be positioned to permit such swinging adjustment of the extension arm.

2,640,287
IDENTIFICATION HOLDER
Ernest A. Lacoursiere, Pawtucket, R. I.
Application May 9, 1950, Serial No. 160,931
1 Claim. (Cl. 40—10)

An identification holder comprising a pair of opposed, substantially rectangular transparent plates, channel members integral with the longitudinal edges of one of the plates and with one end of said one plate, the longitudinal channel members providing an opening at the other end of said one plate, the other plate comprising rabbeted longitudinal marginal portions and a

rabbeted end portion slidably engageable in the channel members, said other plate further having a plurality of spaced parallel grooves in its inner face, said grooves being open at the rabbeted end of said other plate and closed adjacent the other end of said other plate, indicia bearing strips removably mounted in the grooves, and readable through said other plate, an identification card mounted between the plates and readable through said one plate, and a closure member integral with said other end of said other plate and constituting a handle therefor, said closure member comprising a substantially flat portion engageable with the adjacent end of said one plate for retaining the strips and the card in position.



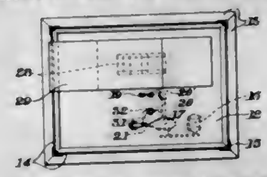
2,640,288
PRICE TAG HOLDER
Max Orlin, Passaic, N. J.
Application September 17, 1947, Serial No. 774,519
6 Claims. (Cl. 40—16)



1. A price tag holder of the type described including in combination, a main transparent body sheet of substantially uniform thickness, a T-head at each longitudinal edge of said sheet, each head having shallow edge flanges directed over and substantially paralleling the sheet faces and only slightly spaced therefrom to provide cooperating tag holder grooves for each face of the body sheet, one of said heads being extended coextensive with the width of the sheet and having a longitudinal slot therein to hold a card entirely above and substantially in the same plane as the price tag on the main body sheet, the outer edge of one wall of said slot supporting a lateral flange whose under surface extends at a right angle to the plane of the body sheet, the upper face of said lateral flange converging to meet the under surface thereof at a sharp edge, said lateral flange adapted to rest on the upper surface of a shelf or to support the holder as an easel.

2,640,289
DISPLAY APPARATUS
Oxford Douglas McNeill, Forest Hill, Ontario, Canada, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application June 1, 1950, Serial No. 165,443
In Canada May 16, 1950
3 Claims. (Cl. 40—126)

1. Apparatus for displaying the foaming properties of detergent materials which comprises a tank adapted to contain a foam-producing liquid and foam produced therefrom, said tank having at least one wall including a transparent panel through which the contents may be viewed, a drainage port in the bottom of said tank for withdrawing liquid therefrom, a conduit extending into said tank through the bottom thereof having a duct extending longitudinally therethrough for delivering liquid to said tank, said conduit terminating in an outlet arranged to direct liquid downwardly in said tank, a plurality of spray holes extending radially through the wall



of said conduit and communicating with the duct therein, said spray holes being arranged in operative relationship within said conduit and near the bottom of the tank to spray liquid delivered thereto across said tank and through the foam contained therein to break down the foam and prevent the same from overflowing the tank, and a power actuated pump disposed in operative relationship between said port and said conduit and arranged to deliver liquid under pressure in said outlet.

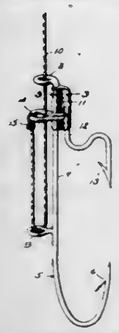
2,640,290
HOOK SETTER FOR FISHING TACKLE
Enos Ray Ames, Oscar H. Thomas, Willie H. O'Neal, and Frank P. Sword, Wichita, Kans.
Application June 5, 1950, Serial No. 166,202
1 Claim. (Cl. 43—15)



For fishing tackle including a pole, a line, and a hook on the line, an attachment for automatically setting said hook in the mouth of a fish as the latter grasps the hook and pulls upon said line, said attachment comprising an elongated guide bar having an L-shaped bracket on each end respectively thereof, each adapted for rigid connection to the pole for holding the bar against movement with respect to the rod, in spaced parallelism thereto and superimposed thereabove; a long actuating spring and a short bumper spring coiled on the bar between the brackets; a U-shaped follower clip partially surrounding the bar between the springs for reciprocation longitudinally of the bar, said clip having a pair of spaced legs; an elongated trigger between the legs of said clip; a pin interconnecting said legs above the bar and passing through the trigger, pivotally mounting the latter for swinging movement to and from a position overlying a portion of said actuating spring, said trigger having a detent on one side of the pin, said bar having a detent-receiving notch intermediate the ends thereof, normally facing upwardly, said trigger extending upwardly in perpendicular relationship to the bar when the detent is in the notch, said actuating spring being compressed between the clip and one of the brackets when the detent is in the notch; and means on that end of the trigger opposite to the detent for fastening the line to the trigger, whereby when a fish pulls the line to swing the trigger to said position, the detent is released from the notch and

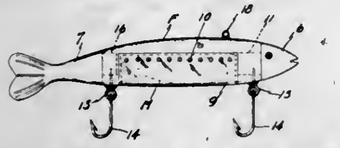
the line is jerked as the actuating spring forces the clip along the bar to a position compressing the bumper spring between the clip and the other bracket.

2,640,291
FISHHOOK
John S. Garner, Darlington, S. C.
Application May 23, 1952, Serial No. 289,580
2 Claims. (Cl. 43—37)



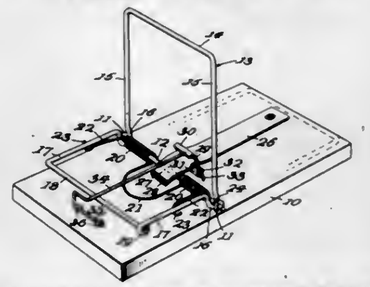
1. A fish hook embodying a main hook member having an elongated shank, an eye member extending laterally from one end of the shank, a prong extending laterally from the opposite end of the shank, an eye member extending from the shank intermediate the ends of the shank, a sleeve slidable on the shank between said eye members, an eye member extending laterally from the sleeve, a fishing line extended through the eye members with one end of the fishing line connected to the eye member of said sleeve, said fishing line effecting movement of the sleeve in one direction when the line is pulled, and a hook secured to said sleeve and movable towards the prong of the main hook member in gripping a fish.

2,640,292
FISH LURE
Clarence J. Nadolny, Bay City, Mich.
Application May 4, 1949, Serial No. 91,261
1 Claim. (Cl. 43—41)



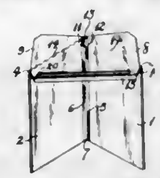
A sectional fish lure adapted to simulate a fish, comprising a central main body portion having its bottom recessed intermediate its ends, said main body portion being provided with a front end passage extending through the front end and open to the recessed bottom of said main body portion, and with a socket in its rear end, a transparent, perforated sheath embracing the recessed bottom of said main body portion to form a bait-accommodating chamber therein, a fish-head section having a turned projecting neck provided thereon for telescopic mounting in the front end passage of said main body, a fish-tail section formed with a turned, projecting neck for telescopic mounting in the rear end socket of said main body portion, screw eyes mounted in the front and rear ends of the main body portion and threaded into the turned, telescopically mounted necks of the head and tail sections respectively, for securing said sections in assembled relation on said body portion, and hooks on said body portion, and hooks on said screw eyes.

2,640,293
MOUSE AND RAT TRAP
Ira A. Cook, Westminster, Calif.
Application March 7, 1949, Serial No. 79,926
1 Claim. (Cl. 43—81)



In a mouse and rat trap, an elongated flat base, a pair of eyes secured adjacent the side edges of the base opposite each other, a pivot rod extending through said eyes and having upwardly offset ends engaging in the eyes, a striker consisting of a single length of wire having a first centrally disposed transverse portion, said wire being bent at the ends of the transverse portion to provide a first pair of parallel side arms having rearwardly upturned U-shaped open loops at their extremities and engaging around the offset ends of said rod, said striker having a second pair of parallel side arms extending from said loops in a plane at right angles to the plane of the first pair of side arms, said striker having a second transverse portion extending from the end of one of the second pair of side arms and engaging in an eye formed in the other of said second pair of side arms, a keeper finger secured to the base at its rear to extend across the said second transverse portion of the striker for holding the striker in set position, a bait substantially balanced carrying trigger adapted to releasably engage the end of the keeper finger upon setting of the keeper finger, and spring means for urging said striker from set to closed position.

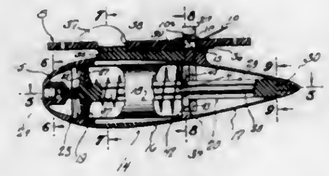
2,640,294
COLLAPSIBLE STAND
Michael P. Walzak, Winnipeg, Manitoba, Canada
Application November 28, 1950, Serial No. 197,915
1 Claim. (Cl. 45—121)



A collapsible stand comprising a base member consisting of a pair of upstanding rearwardly convergent plates having horizontal lower edges, vertical front edges, contiguous vertical rear edges

and rearwardly and upwardly inclined coplanar top edges, a vertical hinge coextensive with and connecting the contiguous rear edges of said plates together whereby the plates may be swung inwardly to a juxtaposed folded position, a top member consisting of a pair of substantially coplanar panels disposed at the inclined top edges of the respective plates and projecting outwardly beyond the same, said panels having front edges spaced upwardly from the lower edges of said plates by the front edges of the plates and also having contiguous inner edges coplanar with the rear edges of the plates, a center hinge coextensive with and connecting together the contiguous inner edges of said panels, said center hinge having its rear end disposed at the upper end of said vertical hinge, a pair of mutually convergent hinges connecting said panels to the upper edges of the respective plates and having their point of convergence disposed at the junction of the vertical and center hinges whereby the panels may be swung downwardly and inwardly to a folded position between upper portions of said plates when the plates are folded, and a grooved bar removably positioned on the front edge portions of said panels and extending transversely between the front edges of said plates for locking the panels in a substantially coplanar relation.

2,640,295
TIMER FOR MODEL AIRPLANES
Harold F. Auler and Erich Eugene Kohls, Milwaukee, Wis.; said Kohls assignor to said Auler
Application June 30, 1947, Serial No. 758,004
8 Claims. (Cl. 46—78)



1. A timer of the character described comprising: a body having complementary sections joined together during assembly; a cylinder within the body secured therein upon juncture of the complementary sections of the body; a controllable air bleed leading from the cylinder; a piston operating in the cylinder and biased in one direction; a stem on the piston projecting to the exterior of the body to provide means for moving the piston against its biasing force; switch terminals mounted in the body at the juncture of two of its complementary sections, said switch terminals having contact portions at opposite sides of the piston stem and relatively biased toward engagement with one another; and means on the piston stem operable upon said contact portions to control contacting engagement thereof during movement of said means with the piston.

2,640,296
FLYING SAUCER TOY
Myron A. C. Johnson, Coral Gables, and Joe Toth, Hialeah, Fla.
Application October 6, 1950, Serial No. 188,812
8 Claims. (Cl. 46—83)

1. A rotor unit for a flying saucer toy including a hub, a plurality of pitched blades radiating therefrom and an annular shroud ring depending from and having its upper edge integrated with the ends of said blades, said upper edge being



inturned and merging smoothly with the blade ends, the lower edge of said ring being of greater diameter than the upper but less than that of intermediate portions thereof.

2,640,297
EXPLOSIVE FOUNTAIN PEN
Soren S. Adams, Asbury Park, N. J.
Application October 31, 1952, Serial No. 317,901
11 Claims. (Cl. 46—176)

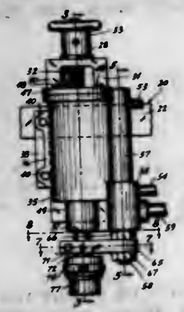


6. As an article of manufacture, an explosive device for percussion caps and the like and insertable in another article, comprising, an elongated member having free ends and a transversely arcuately bowed concave partially cylindrical section therebetween defining an anvil for receiving and housing a cap, and a complemental arcuately curved, partially cylindrical hammer pivoted to said member between said concave section and one of said free ends and swingable over said one free end against a biasing force for cocking said hammer and for loading said anvil with a cap.

2,640,298
GLASSWARE BLOWHEAD ARRANGEMENT
Samuel E. Winder, West Medway, Mass., assignor of one-half to Henry C. Daubenspeck, Massillon, Ohio
Application August 2, 1950, Serial No. 177,163
7 Claims. (Cl. 49—18)

1. In a blowhead construction, a fluid power motor having a cylinder and a piston operable in the cylinder with a main piston rod advanced and retracted by the piston, a second reciprocable rod in parallel spaced relation to the piston rod, fixed means in which the second rod advances and retracts, and a crosshead rigidly interconnecting the two rods outside the cylinder for constant positional relationship therebetween, there being air conducting passage means extending consecutively through the second rod,

the crosshead and the main piston rod, and opening from the external part of the main piston



rod; and there being also fluid passage means into opposite ends of the cylinder.

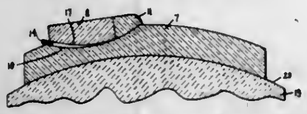
2,640,299

PROCESS OF FORMING A MULTIFOCAL LENS

Samuel T. Sheard, Sturbridge, Mass., and Louis F. Rowe, North Woodstock, Conn., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application December 7, 1949, Serial No. 131,634

3 Claims. (Cl. 49—82.1)



1. In the process of forming a multifocal lens of the type embodying a main element of one index of refraction having a concave seat therein and a composite button embodying a piece of lens medium of a higher index of refraction than the main element fused to said seat, the steps comprising first edge-fusing the lens medium of high index of refraction with a filler piece of lens medium having a substantially lower index of refraction and lower softening point than said lens medium of high index of refraction to form a composite button, shaping the under surface of the button to a convex shape in accordance with the added power desired in the finished lens, forming a concaved seat in the upper surface of a main element of an index of refraction lower than the high index medium of the button and having a softening point approaching that of said filler piece, resting an outer peripheral portion of the filler piece of said button on the edge of the concave seat in said upper surface of the main element and supporting the peripheral edge of the high index lens medium of the button off the edge of the concave seat by spacer means positioned between said high index lens medium and the edge of the concave seat, and under the action of heat causing first the filler piece to soften and drop into intimate relation with the seat and simultaneously carry the fused edge of the high index lens medium therewith and thereafter the remainder of the high index lens medium to drop onto said seat to cause said seat to assume the shape of the under-side of said high index lens medium and cause said composite button to fuse to said seat, said underside and fused edge of said high index lens medium remaining substantially unchanged during said dropping and fusing of the button to said seat.

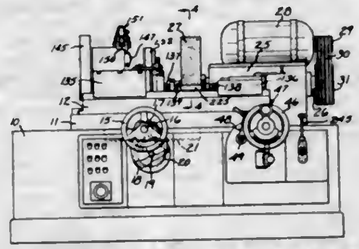
2,640,300

GRINDING MACHINE

Clarence J. Green, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application February 18, 1952, Serial No. 272,202

7 Claims. (Cl. 51—94)



1. In a grinding machine having a transversely movable rotatable grinding wheel, means to feed the wheel transversely to produce a grinding feed, a longitudinally movable table, means to traverse said table longitudinally, a rotatable work support including a head stock and a foot stock center rotatably to support a work piece on said table, a work driving mechanism including a fluid motor arranged to oscillate a work piece continuously through a partial rotation, a reversing valve for controlling the fluid motor, and means actuated by and in timed relation with the rotary motion of the head stock spindle to control the reversing valve and thereby to control the extent of oscillation of the spindle.

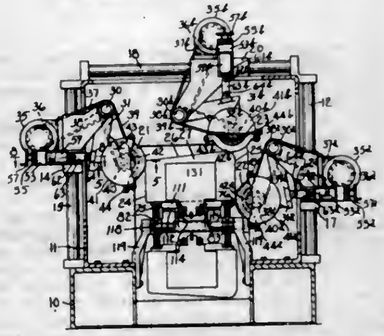
2,640,301

GRINDING MACHINE

Oiva E. Hill, West Boylston, and Carl G. Flygare, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application July 29, 1950, Serial No. 176,574

11 Claims. (Cl. 51—100)



1. In a grinding machine for grinding edge portions of plate glass having a base, a traversable wheel slide, a movable wheel head on said slide, a rotatable grinding wheel on said head, means for traversing said slide, an endless work conveyer, a plurality of spaced work holders fixedly mounted on said conveyer, a master form on each of said holders, means including a motor driven gear mechanism automatically to index said conveyer successively to convey plates of glass having edge portions to be ground to and

from a grinding position, a follower on said wheel head, means to move the wheel head transversely relative to the wheel slide so as to move the follower to and from operative engagement with said form, and yieldable means to maintain said follower in operative engagement with said form to facilitate grinding an edge portion on the work piece to a predetermined size and contour.

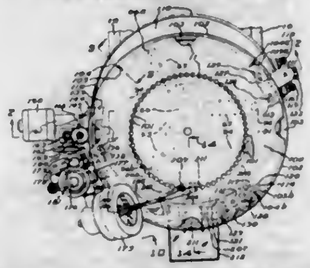
2,640,302

LAPPING MACHINE

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application July 22, 1950, Serial No. 175,452

7 Claims. (Cl. 51—118)



1. In a lapping machine having a base, a pair of vertical axially aligned rotatable spindles on said base, a pair of rotatable lapping annuli each having a plane operative face mounted on the adjacent ends of said spindles, means including a slidably mounted sleeve on said base rotatably to support one of said spindles, means including an adjustable stop on said sleeve to facilitate maintaining said lapping faces a predetermined distance from each other during the entire lapping operation, a work support including an annular gear surrounding the lower lapping annulus, a work cage having a plurality of work receiving apertures supported by said annular gear and positioned between the opposite faces of said annuli, means including a plurality of symmetrically arranged rollers on said base rotatably to support said annular gear, said rollers being arranged so that the gear and cage rotate about an axis off-set relative to the axes of said annuli, and means including a motor driven gear reduction driving mechanism on said base having a driven gear meshing with said annular gear so as to rotate the cage at a slow speed to carry work pieces between the lapping annuli in a circular path eccentric to the lapping annuli.

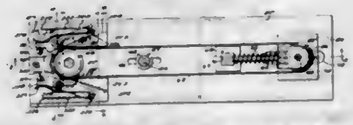
2,640,303

KNIFE SHARPENING AND GRINDING ATTACHMENT

Arnold R. Johnson, Underwood, N. Dak.

Application July 2, 1951, Serial No. 234,757

3 Claims. (Cl. 51—135)



1. In a grinder, the combination which comprises a base, channel-shaped in cross section, a vertically positioned head pulley journaled on the base, a vertically positioned tail pulley journaled on a spindle slidably mounted on the base, a belt having a grinding outer surface trained over the said pulleys, means resiliently urging the tail pulley away from the head pulley, means rotating the said head pulley for driving the belt, guide elements positioned at the sides of the said head pulley, means retaining cutting blades on the said guide elements, frustro-conical shaped members positioned to coact with the guide members for holding blades, and means resiliently urging said frustro-conical shaped members toward the grinding belt.

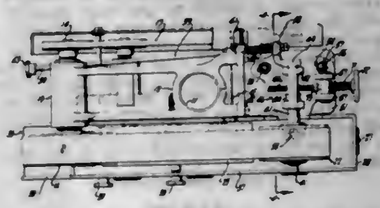
2,640,304

BELT GRINDER

James McEwan, San Jose, Calif.

Application April 1, 1952, Serial No. 279,767

4 Claims. (Cl. 51—148)



1. In a belt grinder, a frame structure, a grinding belt, a drive pulley on said frame structure supporting one end of said belt, an idler pulley supporting the other end of said belt, a support plate for said idler pulley, means mounting said support plate in a horizontal position on said frame structure for adjustment about a vertical axis, a yoke having a pivotal supporting connection with said plate and carrying a shaft supporting said idler pulley, the axes of said shaft and said pivotal connection being parallel, and adjusting screw having a threaded connection with said yoke and a slidable connection with said plate, a spring interposed between said plate and said screw and acting through said screw to urge said yoke in a direction to tension said belt, and a handle portion on said yoke for manual control thereof to move said idler pulley to and from engagement with said belt.

2,640,305

MACHINE FOR GLUING AND SEALING CARTON FLAPS

Frank C. Genco, Buffalo, Ernest R. Edmunds, Tonawanda Township, Erie County, and Nicholas Panzarella, Buffalo, N. Y.; said Edmunds and said Panzarella assignors to said Genco

Application August 1, 1949, Serial No. 108,034

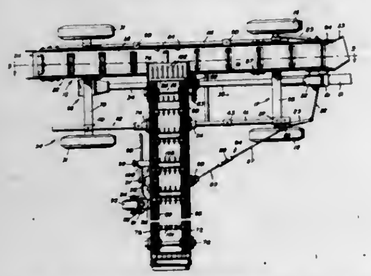
1 Claim. (Cl. 53—145)



In a machine for closing and sealing end flaps of a carton, and wherein the carton is progressively moved through the machine in a substantially straight line of travel, a supporting platform upon which the carton is placed in substantially upright position, an entrance plough above the platform for moving at least certain

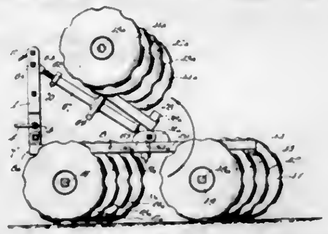
of the flaps into a predetermined position and with flaps on opposite sides of the carton disposed outwardly and transversely to the line of travel, spaced guide rails for engaging opposite sides of the carton to forestall lateral movement thereof, a glue applicator comprising a pot and pairs of rolls disposed to one side of the line of travel, said rolls being substantially horizontal, conveyor means for advancing the carton over the supporting platform and to the glue rolls, the rolls being so positioned with respect to the line of travel as to coat one of said outwardly and transversely disposed flaps, a closure plough positioned over the line of travel and adapted to be engaged by the coated flap to bend said flap on top of the carton, a second closure plough positioned over the line of travel and spaced from the first closure plough to bend the other transversely disposed flap over on the glued flap, a pair of horizontally disposed and vertically spaced conveyor belts adapted to receive the carton, apply pressure to the end thereof, and move the carton along the line of travel to seal the closed flaps, further conveyor means to feed the cartons from the glue rolls to the spaced belts, vertically adjustable supports for one of the spaced conveyor belts, means for adjustably positioning the guide rails toward and away from each other, and drive means for positively driving the conveyor means and belts at synchronous speeds.

2,640,306
STONE GATHERING MACHINE
Elias S. Diehl, Bedford, Pa.
Application April 11, 1949, Serial No. 86,614
8 Claims. (Cl. 55—17)



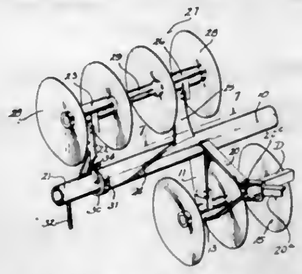
1. An apparatus for picking up, gathering, transporting and dumping the gathered stones into wagons or the like comprising a portable support embodying wheel supported frame structure adapted to be drawn over a stony surface and including a self-unloading loose stone receiving and dumping hopper fixedly mounted on said frame structure, said hopper embodying a longitudinally elongated trough which is open at opposite ends, conveyor means embodied in said trough, said hopper being adapted to move in approximate alignment with the line of draft and to one side of the path which is to be cleared of loose stones, a loose stone pick-up, gathering, and elevating chute disposed at right angles to the line of draft and movable along the loose stone path, the discharge end of said chute communicating with and emptying into the intermediate portion of said hopper, said chute being independent of said hopper, being solely and hingedly supported on and carried by said frame and self-tilting relative to the surface traversed, an endless conveyor means in said chute, said chute having an opening at its outer end to take in stones, said opening being located on the leading side of the chute, means on said frame structure for simultaneously operating the conveyor means in the hopper and chute, and manually adjustable caster means carried by the outward end portion of said chute.

2,640,307
MULTIPLE LIFT TYPE DISK HARROW
Jackson Perry Robertson, Columbus, Miss.
Application May 18, 1950, Serial No. 162,764
7 Claims. (Cl. 55—30)



1. A multiple lift-type disc harrow comprising a coupling frame connectible to a tractor, a frame member connected with said coupling frame, gangs of discs carried by said frame member, a pair of separate frame members disposed side by side individually hingedly connected with the rear of said first mentioned frame member, and movable through an orbit appreciably greater than 90 degrees in the direction of said first mentioned frame member, gangs of discs carried by said pair of frame members, said first mentioned frame member carrying connecting means on the trailing edge thereof, and said pair of separate frame members carrying connecting means on the leading edges thereof aligned with the aforesaid connecting means, and disconnectible means interconnecting the aligned connecting means on both said frame member and the rearwardly disposed separate frame members for maintaining said pair of frame members in coplanar relation with respect to said first mentioned frame.

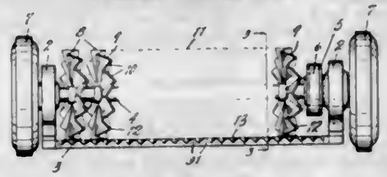
2,640,308
EXPANSIBLE DISK HARROW
Frank N. G. Kranick, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 9, 1948, Serial No. 43,199
5 Claims. (Cl. 55—81)



1. In a harrow having a laterally extending tubular frame, said frame comprising a main member and an extension member, said extension member telescoping within said main mem-

ber, a helical aperture extending axially and peripherally in the wall of said main member, downwardly depending brackets secured to said main and extension members, disk gangs journaled on said brackets, one of said brackets secured to said extension member being so arranged as to cooperate with said helical aperture to rotate said extension member upon moving the latter axially, and stop means on one of said members and engageable with the other member to prevent inadvertent withdrawal of said extension member from said main member.

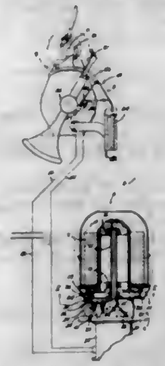
2,640,309
CUTTER MECHANISM FOR MOWING MACHINES
Merle K. Benson, Belmont, Mich.
Application August 19, 1949, Serial No. 111,269
3 Claims. (Cl. 56—294)



1. In a mowing machine, the combination of a cutter bar having a continuous series of forwardly facing A-shaped teeth, a driven cutter shaft, and a plurality of circular axially spaced cutter blades mounted on said shaft in angularly inclined relation to the axis thereof, said blades having radial inwardly tapering corrugations of substantial depth at the peripheries of the blades providing zigzag cutting edges coacting with the cutter bar, the reaches of the zigzag edges of the blades being of a length substantially exceeding the distance between the tips of the teeth of the cutter bar, the angular position of the blades relative to the axis of the shaft also resulting in an axial sweeping movement of the blades relative to the cutter bar.

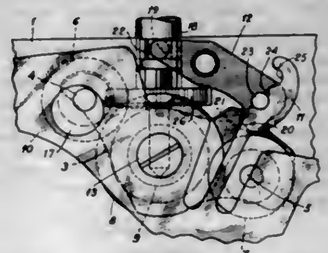
2,640,310
MAGNETIC STOPPING DEVICE
Ingham S. Roberts, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 30, 1949, Serial No. 136,113
18 Claims. (Cl. 57—81)

2. In a winding and twisting system, a machine having a hollow spindle for passing a continuous strand, a driving means for the machine, an electrical circuit for controlling the drive means, a take-up means for moving the strand lengthwise of itself, an element extending radially from the spindle to rotate the strand in a revolving path as it moves toward the take-up means, a member, bearing means for mounting the member on the spindle, means for restraining the member from rotating, and strand-catching and switching mechanism comprising a lever which is moveable into and out of the revolving path of the strand, said lever having magnetically-sensitive means associated therewith, magnetic means secured to the member at a radius which permits rotation of the magnetic means to a position closely spaced with respect to the magnetically-sensitive means, said magnetic means having sufficient attraction for the magnetically-sensitive means to move the lever toward said means when the member is rotated to bring the means into proximity to the magnetically-sensitive means, and switch means associated



with the lever for opening and closing the control circuit.

2,640,311
WINDING AND SETTING MECHANISM FOR WATCH AND CLOCK MOVEMENTS AND THE LIKE
Heinrich Stamm, Grenchen, Switzerland, assignor to ETA AG., Ebauches-Fabrik, Grenchen, Switzerland, a joint-stock company of Switzerland
Application March 24, 1949, Serial No. 83,224
In Switzerland March 30, 1948
4 Claims. (Cl. 58—69)



1. In a watch or clock movement, a plate, and a winding and setting mechanism comprising a rocking-bar pivotally mounted on said plate and having a notch and a projection, said projection extending on the side opposite said plate, a two-armed setting lever pivotally mounted on said plate and having a nose and two projections, one at each end of said arms, said setting lever moving said rocking-bar, an axially movable stem having an annular slot for moving said setting lever, three intermediate wheels rotatably mounted on said rocking-bar on the side thereof opposite said plate, said three wheels lying in one plane, and a setting lever spring having a spring arm with two cutouts and a base having an aperture and being detachably secured to said plate and positioned on the side of said wheels opposite the rocking-bar and serving as a cover to retain said intermediate wheels on the rocking-bar against axial movement, one of said projections of said setting lever cooperating with said annular slot of said stem and the other of said projections of said setting lever cooperating with said two cutouts of said spring arm, said nose of said setting lever cooperating with said notch of said

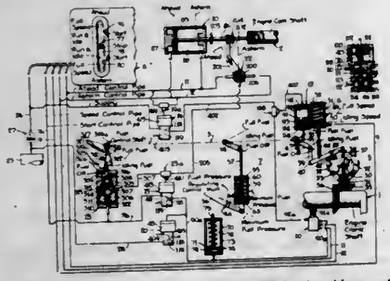
rocking-bar and said projection of the rocking-bar extending on the side opposite said plate arising through said aperture of said base and cooperating with said aperture, for accurately determining both the setting and the winding positions of said rocking-bar.

2,640,312

CONTROL APPARATUS FOR STARTING, STOPPING, RUNNING, AND REVERSING AN INTERNAL-COMBUSTION ENGINE

Raymond E. Miller, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application April 26, 1949, Serial No. 89,702
14 Claims. (Cl. 60—16)



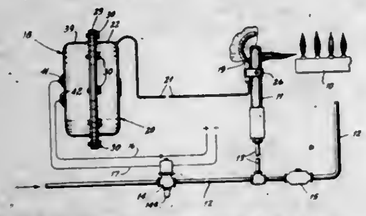
1. Apparatus for controlling the starting of an internal combustion engine, comprising in combination, starting means operable to turn said engine over at a starting speed, fuel control means movable in one direction to increase supply of fuel to said engine and in an opposite direction to decrease supply of fuel to said engine, governor means responsive to running of said engine at speeds in excess of said starting speed to effect movement of said fuel control means in its said opposite direction, valve means responsive to supply of fluid under pressure to a chamber to terminate operation of said starting means, and means responsive to movement of said fuel control means in its said opposite direction to supply fluid under pressure to said chamber.

2,640,313

TEMPERATURE RESPONSIVE CONTROL

Clifton A. Cobb, University City, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri

Application September 12, 1947, Serial No. 773,646
6 Claims. (Cl. 60—25)



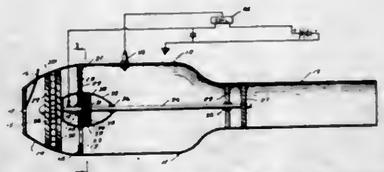
1. A burner safety device adapted to use in high ambient temperatures for detecting the presence or absence of flame at a burner: comprising an expansible chamber, a bulb portion spaced from said expansible chamber for disposition at the flame, a tube connecting the bulb portion and expansible chamber so as to complete a closed system, the system being filled with a high boiling point liquid charge when said expansible chamber is in a contracted position, said liquid charge having a boiling point of at least 600° Fahrenheit, and said expansible chamber being expansible from its contracted position to receive the amount of liquid contained in the bulb portion of the system when the bulb portion is heated sufficiently by flame to complete the expulsion of all liquid therefrom, whereby a large rapid expansion or contraction of the expansion chamber occurs as the bulb temperature rises slightly above or falls slightly below the boiling point of the fluid therein, control means having first and second operating positions, and being connected to said expansion chamber to be moved by expansion and contraction thereof, the said positions being separated sufficiently to require the large volumetric change caused by a change of state of the fluid in said bulb portion for producing the operational shift of the operating means.

2,640,314

DISK VALVE PULSE JET ENGINE

William E. Abel, Great Falls, Mont.

Application December 16, 1949, Serial No. 133,260
3 Claims. (Cl. 60—35.6)



1. A jet engine comprising a tubular body having a tapering forward end, an air intake opening at the forward end of said body, an elongated reduced rear end on said body, a first apertured disc rigidly secured in the forward portion of said tubular body, an axial shaft rotatably mounted in said body and extending through said apertured disc, a blower wheel carried on said shaft forwardly of said disc, a turbine wheel carried on said shaft in said reduced rear end for rotating said shaft, means for injecting fuel into said body between the air intake at the forward ends of the body and the blower, a second apertured disc rotatably mounted adjacent said first disc for cooperation with the first disc to intermittently admit the fuel charge into said body rearwardly of said disc, a first gear secured to said shaft, a ring gear secured to said second disc around said first gear, a planetary gear in said ring gear meshing with the ring gear and the first gear and coupling said second disc to said shaft, and ignition means in said body rearwardly of said discs.

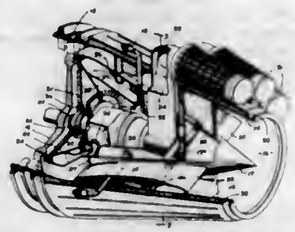
2,640,315

GAS TURBINE STARTER MOUNTING

Lloyd Calvin Secord, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation

Application June 17, 1950, Serial No. 168,720
In Great Britain June 28, 1949
5 Claims. (Cl. 60—35.6)

1. A gas turbine engine comprising a rotary air compressor at the inlet end, a gas combustion system, a turbine at the outlet end driving the compressor, a tail cone mounted aft of the turbine, a hollow generally conical tail bullet centrally supported within and spaced from the tail cone and defining therewith an annular exhaust passage for the turbine, a first diaphragm disposed opposite the turbine with a clearance gap therebetween and providing a front wall for the tail bullet, a shroud closed at its aft end supported within and spaced from the tail cone, a second diaphragm disposed aft of the first diaphragm and closing the foward end of the shroud



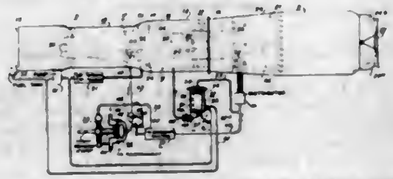
to define therewith a closed compartment, a starting motor located within the compartment, shafting means passing centrally through both said diaphragms and coupling the motor to the turbine, the first diaphragm having apertures therein spaced around the shafting means and the second diaphragm having apertures opening into the compartment, and means supplying cooling air under pressure to the compartment whereby said air cools the motor and, escaping through the apertures in the diaphragms, cools in succession the shafting means and the turbine.

2,640,316

IGNITION APPARATUS FOR TURBOJET AFTERBURNERS

Robert A. Neal, Media, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 7, 1949, Serial No. 125,958
5 Claims. (Cl. 60—35.6)



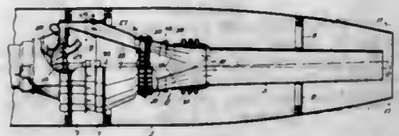
1. In a gas turbine power plant having combustion apparatus normally operative for supplying hot motive fluid to the turbine and an afterburner for receiving fluid exhausted from said turbine, said afterburner being remotely disposed relative to the normal combustion zone of said combustion apparatus, the combination of fuel control means operative for supplying fuel to said afterburner, and ignition means operative upon initial operation of said fuel control means to inject a predetermined excess quantity of combustible matter into said combustion apparatus, whereby an incandescent mass is momentarily carried through said turbine into said afterburner for igniting the fuel therein, said ignition means comprising a cylinder connected to said combustion apparatus, charging means operative to maintain a charge of combustible matter in said cylinder, and ejector means actuated upon operation of said fuel control means for displacing said combustible matter from said chamber into said combustion apparatus.

2,640,317

JET ENGINE TAIL PIPE ASSEMBLY

David Wendell Fentress, Barrington, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois

Application May 17, 1946, Serial No. 670,588
2 Claims. (Cl. 60—35.6)



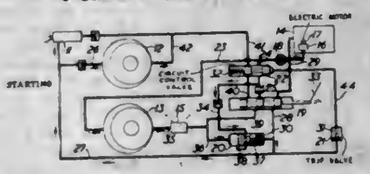
1. In combination, a jet engine having an air impeller, a turbine, and a nozzle assembly, said nozzle assembly including an outer frusto-conical tubular section and an inner conical member providing an annular exhaust passage, a tail pipe peripherally and exteriorly overlying the smaller discharge end of said frusto-conical tubular section in nesting relation and in communication therewith, a section of annularly convoluted flexible metal tubing overlying at least a portion of said tubular section with one end secured to said tubular section and with the opposite end secured exteriorly to the adjacent end of said tail pipe whereby to provide a flexible fluid-tight connection between the tubular section of the nozzle assembly and said tail pipe, said tubular section extending substantially throughout the entire length of the flexible convoluted metal tubing to baffle the same against impingement of discharge gases, a fuselage structure embracing the jet engine nozzle and tail pipe assembly and support means for the assembly including frame means for the engine and a single support for the tail pipe widely spaced from the frame means supporting the engine whereby the flexible convoluted tubing section permits relative angular and longitudinal displacement between the engine unit and the tail pipe while maintaining a fluid-tight connection therebetween.

2,640,318

STARTING SYSTEM FOR GAS TURBINE ENGINES, USING MULTIPLE FUEL PUMPS

Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England

Application June 30, 1948, Serial No. 36,011
In Great Britain July 9, 1947
6 Claims. (Cl. 60—39.14)



2. In combination with the burners of a continuous combustion turbine engine, a fuel supply system for said burners which includes a fuel pump driven by and during operation of the engine, another fuel pump driven independently of

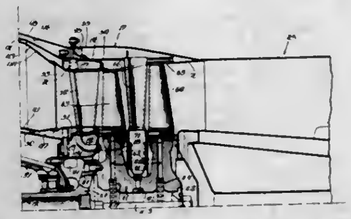
the engine, conduit means to connect each such pump with said engine burners, a valve in said conduit means biased to close off direct communication between the independently driven pump and the burners automatically whenever the engine is at rest, and means sensitive to pressure developed by said engine-driven pump, upon commencement of rotation of the engine, and operatively connected to said valve to open the same and thus to open said conduit means for direct passage of fuel from said independently-driven pump to the burners, during starting.

2,640,319

COOLING OF GAS TURBINES

George F. Wislicenus, Baltimore, Md., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application February 12, 1949, Serial No. 76,161
2 Claims. (Cl. 60—39.66)



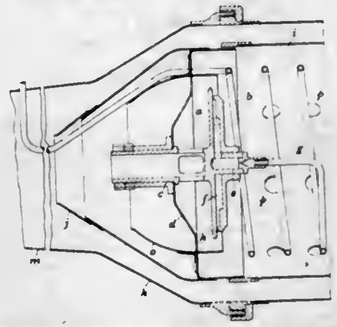
1. An internal combustion gas turbine engine having at least two stages of air compressing means associated therewith comprising: a forwardly sloping generally conically shaped front housing; a first stage axial flow air compressor at the forward end of said housing; a second stage axial and radial flow compressor to the rear of said first stage compressor; an annular passage within said housing to conduct the partially compressed air from the first stage compressor to said second stage compressor; a compressed air collector ring at the discharge end of said second stage compressor, said ring forming a compressed air passage; an outer annular passage within said front housing, said outer annular passage surrounding said first named annular passage as well as said second stage compressor and said air collector ring; the common wall between said two annular passages having ports therein to permit a portion of the partially compressed air to flow into the outer annular passage; a rearwardly sloping generally conically shaped rear housing; said rear housing having an annular air passage inside thereof that is substantially co-extensive with its inner wall and which defines a space within the rear housing; said outer annular passage in the front housing communicating with said co-extensive passage in the rear housing; a combustion chamber disposed rearwardly from said collector ring and within said space; a hollow bladed gas driven turbine having a rotor disposed within the rear portion of said rear housing; means to feed fuel to said combustion chamber; said collector ring feeding compressed air to the space inside of said co-extensive passage; generally concentrically arranged annular air flow passages within said space and surrounding said combustion chamber; concentric passages having infeed openings at their forward ends whereby separate portions of the compressed air issuing from said ring enters each of said concentric passages; auxiliary passage means cooperating with said concentric passages to deliver air from adjacent the rear ends thereof to cool the outside surfaces of said turbine blades; and other auxiliary passage means cooperating with said co-extensive passage to deliver air therefrom to the center of said turbine rotor so that the air may be pumped outwardly through the hollow blades of the turbine by their rotation.

2,640,320

LIQUID FUEL BURNER AND COMBUSTION APPARATUS

John Stanley Clarke, Blacko, near Nelson, England, assignor to Joseph Lucas Limited, Birmingham, England

Application April 17, 1950, Serial No. 156,461
In Great Britain May 23, 1949
2 Claims. (Cl. 60—39.71)



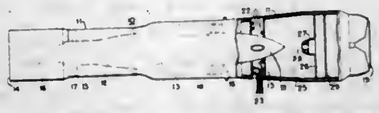
1. A liquid fuel burner comprising in combination a nozzle formed by a pair of coaxially arranged metal plates and having an annular discharge orifice between the peripheral portions of said plates, a supporting shank on and extending axially from one side of one of said plates, a hollow boss on and extending axially from the other side of the last mentioned plate through the other plate which is carried by said boss, and a vaporising tube secured at one end to said hollow boss.

2,640,321

COMBUSTION APPARATUS WITH IGNITION MEANS THEREFOR

Walter D. Pouchot, Prospect Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 22, 1950, Serial No. 151,173
5 Claims. (Cl. 60—39.82)



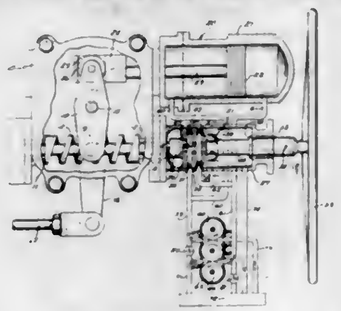
1. In combustion apparatus, first wall structure defining a main combustion chamber adapted for flow of air therethrough; means near the upstream end of said chamber, considered in the direction of flow of air therethrough, for supplying fuel to the air flowing therethrough for admixture therewith; a tubular member disposed generally normal to the direction of flow of the fuel-air mixture through said chamber and providing an ignition surface; second wall structure defining a heating chamber having an inlet wall downstream of the fuel supply means, said inlet being directed upstream in the main combustion chamber for entry of a limited portion of the fuel-air mixture flowing through said main chamber, and said heating chamber having an outlet for burning gases communicating with the interior of the tubular member, and means associated with said heating chamber for initiating combustion therein, said tubular member having one or more outlet openings in the downstream side thereof, whereby burning gases and hot products of combustion discharged from the heating chamber to the interior of the tubular member may flow through the latter and heat the ignition surface thereof to the auto-ignition temperature of the main fuel-air mixture flowing in contact with the said surface.

2,640,322

HYDRAULIC STEERING MECHANISM

Erving A. Puerner, Milwaukee, Wis., assignor to Shallcross Controls, Inc., Milwaukee, Wis., a corporation of Wisconsin

Application January 2, 1951, Serial No. 203,915
19 Claims. (Cl. 60—52)



19. In a power steering mechanism: a fluid pressure operated double acting ram; a first source of fluid under pressure; a first conduit means connecting said first source to one side of said ram, said conduit means being formed with a bleeder opening; a second conduit means connecting said second source with the other side of said ram, said second conduit means also being formed with a bleeder opening; manually operated means for selectively closing one of said conduit bleeder openings to prevent the escape of fluid therefrom and to cause fluid under pressure to enter the end of said ram communicating with said bleeder opening; an inlet check valve connected to one end of said ram; and an inlet check valve connected to the other end of said ram, said check valves preventing locking of said ram during failure of said fluid pressure source and closure of one of said bleeder openings.

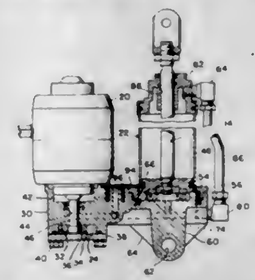
2,640,323

POWER UNIT OF THE FLUID PRESSURE TYPE

Stewart B. McLeod, Dearborn, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application December 15, 1950, Serial No. 200,953
9 Claims. (Cl. 60—52)

1. An elongated support casting comprising a cylinder support including a circular seat surrounded by an annular flange adapted to support the open end of a power cylinder and to constitute an end closure therefor, a pivot support mounting on said casting directly opposite said seat and having its pivot axis intersecting the axis of said seat and flange, a circular pump recess in said casting adapted to receive a rotary pump, said casting having integral circular motor support and positioning means thereon axially aligned with the pump axis, a first fluid passage in said casting extending from one side of said



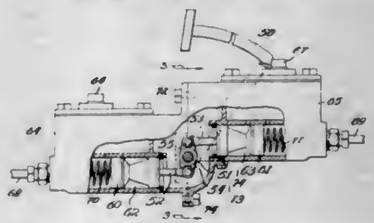
pump and opening into said circular seat, a second fluid passage in said casting extending from the other side of said pump to a port in said casting adjacent said seat for connection to a conduit connected to the opposite end of a cylinder on said seat, said casting having an enlarged cavity formed therein to act as a reservoir for hydraulic fluid, passages in said casting connecting said reservoir to each of said first and second passages, and check valves in said last recited passages.

2,640,324

DOUBLE-ACTING MASTER CYLINDER BRAKE CONTROL

Edward Clinton Spahn, Portsmouth, Va.

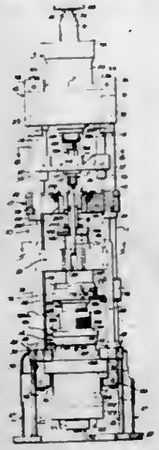
Application December 16, 1948, Serial No. 65,555
1 Claim. (Cl. 60—54.6)



In a motor vehicle brake system master cylinder, the combination which comprises a housing having oppositely disposed cylinders therein and said cylinders being in vertically spaced horizontal planes, a shaft journaled in the housing and positioned between the vertically spaced horizontally disposed planes of the cylinders and also midway between the ends of the cylinders, a rocker arm including a hub with offset ends fixedly mounted on said shaft and aligned with the cylinders, connecting rods pivotally connected to opposite ends of said rocker arm and extending into said cylinders, pistons in the cylinders to which said connecting rods are connected, springs in the cylinders urging the pistons toward the ends of the cylinders spaced from the shaft, and a foot pedal fixedly mounted on said

shaft, said housing having fluid reservoirs in the upper parts thereof and said reservoirs being in communication with said cylinders.

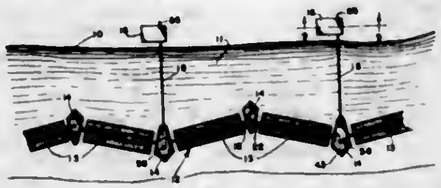
2,640,325
HYDRAULIC MOLDING PRESS
John Haller, Northville, Mich.
Application August 12, 1950, Serial No. 179,017
6 Claims. (Cl. 60—97)



1. A compound hydraulic motor comprising a cylinder having an outer cylinder bore therein, a tubular outer plunger reciprocably mounted in said outer cylinder bore and having a threaded portion disposed externally of said cylinder, a work element connected to said tubular plunger, a stop abutment member stationarily mounted adjacent said threaded plunger portion, a threaded stop member threaded upon said threaded plunger portion and abuttingly engageable with said abutment member at a predetermined location in the stroke of said tubular plunger, said tubular plunger having an inner cylinder bore therein, an inner plunger reciprocably mounted in said inner cylinder bore and extending through said tubular plunger and having a threaded portion disposed outwardly of said tubular plunger, said work element having a threaded portion threadedly and adjustably engaging said inner plunger portion, and a fluid conduit structure extending into said cylinder bore and through said tubular plunger into said inner cylinder bore, said inner plunger having a chamber therein communicating with said inner cylinder bore, and said conduit structure having a portion thereof extending through said inner plunger into said chamber.

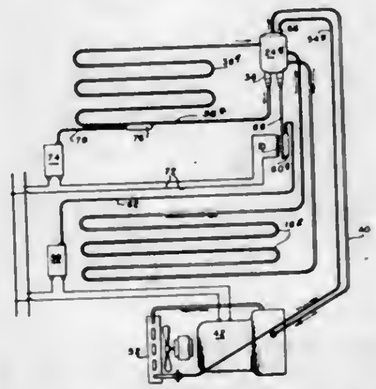
2,640,326
COMBINATION BREAKER BUOY AND POWER GENERATING MEANS
Thomas G. Hunter, Chicago, Ill.
Application May 28, 1952, Serial No. 290,444
18 Claims. (Cl. 61—20)

1. Combination breaker buoy means for the prevention of shoreline erosion of a natural body of water and wave power translation means, comprising a multiplicity of stationary pier means mounted on the bed of the said body of water and in substantially parallel relationship to the said shoreline and arranged in staggered formation, primary shaft means secured internally the said pier means, secondary shaft means, universal joint means securing the said primary shaft means to the said secondary shaft means, breaker buoy means secured to the said secondary shaft means, and transmission means mounted



within the said pier means and provided with transmission shaft means extending beyond the confines of the said pier means.

2,640,327
DUAL EVAPORATOR REFRIGERATION APPARATUS
Carl F. Alsing, Wilbraham, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 30, 1949, Serial No. 107,790
4 Claims. (Cl. 62—4)

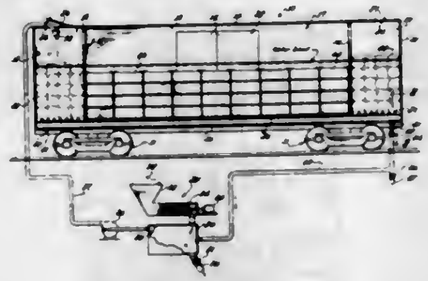


1. In refrigerating apparatus, the combination of a vessel adapted and arranged to store refrigerant liquid, refrigerant vapor compressing and condensing apparatus adapted to supply refrigerant liquid to said vessel, a first evaporator, a first conduit connected at one end to said vessel at a first portion thereof spaced from the bottom of the vessel, said first conduit being connected at its other end to said first evaporator, said first conduit conducting refrigerant liquid from said vessel to said first evaporator, a second evaporator, a second conduit connected at one end to said vessel at a second portion there of located at an elevation above that of said first portion, said second conduit being connected at its other end to said second evaporator, and a pump adapted to pump refrigerant liquid from an area of said vessel located below said first portion, said pump discharging said liquid into said second conduit.

2,640,328
CAR AND PRODUCE CHILLING SYSTEM
David E. Myers, Shell Beach, Calif.
Application February 12, 1952, Serial No. 271,093
8 Claims. (Cl. 62—19)

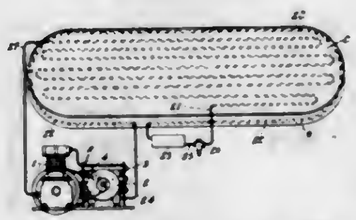
1. The method of precooling an elongated railroad box car and a contained boxed produce load

that comprises filling cold water into said car at a location near a first end thereof and to a level immersing said load, and withdrawing said



water from the car at the second end thereof to create a circulation of cooling water longitudinally within the car.

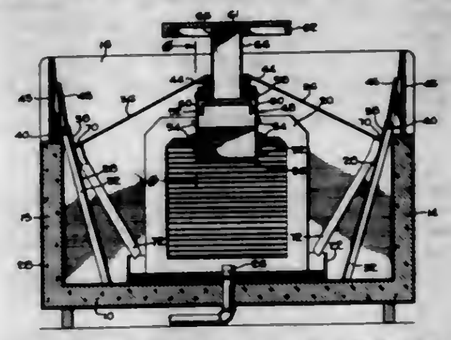
2,640,329
COLD PLATE WITH MEANS TO PREVENT CONDENSATION
Johan Frederik Ingvar Ingvardsen, Copenhagen, Denmark
Application September 24, 1949, Serial No. 117,603
7 Claims. (Cl. 62—89.5)



1. In combination with a refrigerating unit comprising a compressor, a primary condenser for cooling the compressed refrigerant to its boiling point and partially condensing said compressed refrigerant, a receiver for liquefied refrigerant and an evaporator, a cold plate comprising a refrigerated surface cooled by the evaporator of said refrigerating unit, a frame extending along the edge of the refrigerated surface in juxtaposition to said surface, a gasket forming an air tight joint between the refrigerated surface and the frame and a temperature control conduit in heat transferring relation with the frame to maintain the frame at a uniform temperature approximately equal to room temperature, said conduit being connected in series between said condenser and receiver and constituting a secondary condenser, the refrigerant in said conduit being in a composite gaseous and liquid stage.

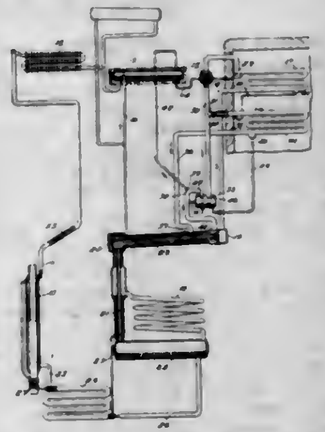
2,640,330
REFRIGERATED DISPLAY CASE
Howard O. Johnson, Perris, Calif.
Application January 3, 1950, Serial No. 136,633
10 Claims. (Cl. 62—89.5)

1. In an open refrigerated display case, the combination of a display rack, means for cooling and circulating air, a drip pan, a header, means for restricting the flow of air from over said drip pan into said header, an air outlet in said header providing an air passage from said header over the display rack, and a baffle pro-



viding an air passage from said display rack to said first mentioned means.

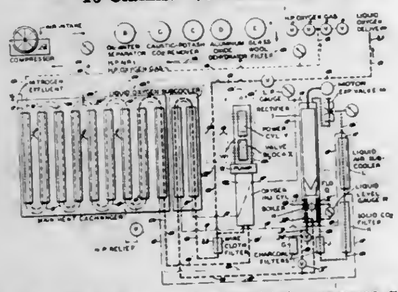
2,640,331
ABSORPTION REFRIGERATION
Sigurd Mattias Bäckström, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application November 5, 1946, Serial No. 707,854
In Sweden November 8, 1945
18 Claims. (Cl. 62—119.5)



1. Absorption refrigeration apparatus employing evaporation of refrigerant fluid in the presence of inert gas including a circuit for circulation of such gas comprising an upper, intermediate and lower cooling elements in which said evaporation may take place, connections for conducting refrigerant fluid by gravity flow from said upper cooling element to said intermediate cooling element and from the latter to said lower cooling element, said refrigerant fluid connections each having a liquid trap to prevent flow of inert gas therethrough, each of said cooling elements having a single place at which inert gas is introduced and a single place at which inert gas passes therefrom and being connected in said circuit for flow of inert gas through said intermediate cooling element and from the latter through said lower and upper cooling elements so that evaporation of refrigerant fluid takes place at a low temperature in said intermediate cooling element and at higher temperatures in said lower and upper cooling elements, and means including connections for effecting circulation of inert gas through said intermediate cooling element at

a rate which is always greater than that at which circulation of inert gas is effected through said lower and upper cooling elements, said last-mentioned means including provisions for subdividing the inert gas passing from said intermediate cooling element into a plurality of gas streams of which one flows through said lower cooling element.

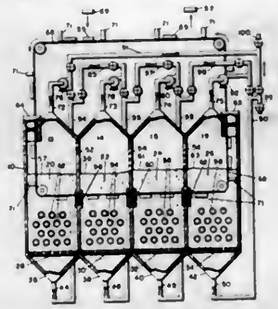
2,640,332
OXYGEN PRODUCING APPARATUS
Frederick G. Keyes, Cambridge, Mass., assignor, by mesne assignments, to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application August 10, 1946, Serial No. 689,768
16 Claims. (Cl. 62—122)



1. Apparatus for producing high pressure gaseous oxygen comprising a main heat exchanger into which compressed air is introduced and through which the air flows in one direction, a rectifier column having at its bottom a boiler wherein the air flowing from the main heat exchanger is liquefied, a second heat exhanger beyond the boiler in the direction of flow of said air in which the temperature of said liquid air is further reduced, means for the expansion of said liquid air for delivery into the rectifier column for downward flow therein for purposes of rectification and for the formation of liquid oxygen in the said boiler while the effluent formed in the rectification flows upward in said column, a third heat exchanger for cooling said liquid oxygen, and a pump for increasing the pressure of said liquid oxygen to a desired pressure; the said high pressure liquid oxygen passing from said pump through the main heat exchanger in a direction counter to that of the compressed air whereby the air is cooled and the liquid oxygen is heated to a desired temperature for discharge from the apparatus; and the effluent passing from the rectifier column successively through the casing of said pump, the said third heat exchanger, the said second heat exchanger and the said main heat exchanger.

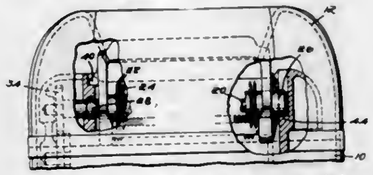
2,640,333
METHOD OF QUICK-FREEZING FOODSTUFFS
Bradford E. Bailey, Elizabeth, N. J.
Application November 15, 1950, Serial No. 195,792
16 Claims. (Cl. 62—173)

1. A process for freezing relatively large foodstuffs by contacting said foodstuffs with relatively small solids, comprising maintaining a confined mass of said relatively small solids as at least one densely fluidized bed by passing gasiform fluid upwardly through said mass of solids, maintaining the temperature of said mass of solids below the freezing point of the foodstuff, supplying refrigeration into the said mass of solids continuously at a rate substantially equal to the rate at which refrigeration is absorbed by the foodstuff



and the fluidizing gasiform fluid, and passing the foodstuff on a suitable support through the said mass of solids at a rate suitable to effect freezing of the foodstuff.

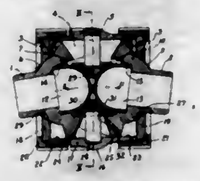
2,640,334
SHAFT MOUNTING AND DRIVING ASSEMBLY
William F. Spang, Cambridge, Mass., assignor to Cube Steak Machine Co., Needham Heights, Mass., a partnership
Application May 7, 1949, Serial No. 91,940
3 Claims. (Cl. 64—1)



1. In combination, a frame embodying two spaced supports, a driving shaft rotatably mounted in one support with one end facing the other support and terminating in a face disposed in a plane right angular to the shaft axis, the shaft having an axially disposed socket in said one end open to said face, two lugs projecting outwardly from said face at opposite sides of said axis, an upwardly open bearing in said other support, a driven shaft rotatably supported at one end in said bearing and at its other end in said socket, two diametrically opposed pins extending radially outward from opposite sides of the driven shaft adjacent to said face, said lugs having front driving faces each forming an angle of not more than 90° with said face forwardly of the lug and providing therewith pockets for receiving the pins and engaging said driving faces therewith beyond the sides thereof facing the driving shaft whereby to rotatably drive the driven shaft without crowding it axially away from the driving shaft, the driven shaft being removable upwardly from said open bearing and outwardly from said socket.

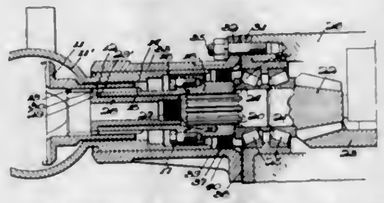
2,640,335
UNIVERSAL JOINT
Sven Gustaf Wingquist, Gothenburg, Sweden
Application June 23, 1950, Serial No. 169,864
In Sweden August 16, 1949
10 Claims. (Cl. 64—21)

1. Universal joint comprising in combination a driving joint member, a driven joint member, arms on the joint members, races on the arms, rolling members between the races, an outer convex surface and an inner spherical surface on the driving joint member having a common centre on the axis of said driving joint member, an outer convex and an inner spherical surface on the driven joint member having a common centre on the axis of said driven joint member separate from the corresponding centre for the driving joint member, an outer bisecting member sur-



rounding the joint members, inner surfaces on the outer bisecting member by means of which it is mounted on the outer convex surfaces of the joint members, an inner substantially lenticular bisecting member mounted within the joint, and outer spherical surfaces on the inner bisecting member complementary to and seated against said inner spherical surfaces on the joint members, said rolling members being arranged between and journalled on the outer and inner bisecting members.

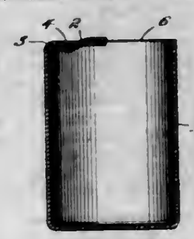
2,640,336
TORQUE TRANSMITTING CONNECTION
Albert F. Myers, Berkley, Mich., assignor to Patent Developers, Inc., Detroit, Mich., a corporation of Michigan
Application April 21, 1949, Serial No. 88,782
3 Claims. (Cl. 64—23)



1. An extensible torque transmitting connection between a rotatable splined driving member and a shaft having a splined section and mounted in a bearing, comprising an extension having a threaded connection to the end of said shaft adjacent said driving member and provided with a flange having splines engaging the splines on said rotatable driving member to prevent rotation of said extension relative to said shaft; an adapter sleeve engaging the splined section of said shaft and contacting said bearing; a separate adapter member splined to said driving member; and torque transmitting connections between said adapter member and adapter sleeve; the flange on said extension contacting the free end of said adapter member.

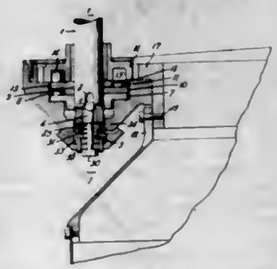
2,640,337
BABY CUP
Edmond Vestal Bryant, Parma, Ohio
Application August 13, 1948, Serial No. 44,002
1 Claim. (Cl. 65—13)

As a new article of manufacture, a one piece child's drinking cup including a cylindrical body closed at the bottom and a cover formed integral with the upper end of said body and covering approximately one third of the area of the top of said body, there being a small drinking aperture in said cover near the edge of the cylindrical body and midway of the juncture of same with the cover, said cover providing a drinking guard cooperating with said aperture to prevent too rapid drinking or gulping of the contents through the



aperture by the drinker, said cover being formed with a lengthwise lip receiving recess, said cover having the shape of a compound curve in transverse cross section through the aperture, said recess having its central portion serving to receive the lip, and the ends and sides of said recess becoming gradually shallower, there being a large opening at the upper edge of said body for filling the cup, so that said cover serves to prevent overflow of liquid from said body.

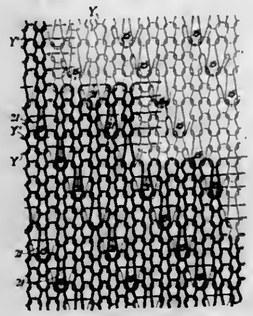
2,640,338
DOUBLE CYLINDER CIRCULAR KNITTING MACHINE PROVIDED WITH A NOISELESS COUPLING
Bohumil Charvát, Sezimovo Usti, Czechoslovakia, assignor to Svit, narodni podnik, Gottwaldov, Czechoslovakia
Application March 1, 1949, Serial No. 78,956
In Czechoslovakia March 15, 1948
1 Claim. (Cl. 66—153)



In a double cylinder circular knitting machine including in combination driving means adapted to drive the knitting cylinders continuously in one direction during normal rotary knitting and in alternate rotary directions of limited extent during other periods, a countershaft geared to rotate in unison with said knitting cylinders in all directions of rotary motion thereof, fabric draw-off mechanism for said knitting cylinders and a driving coupling between said countershaft and said draw-off mechanism, the improved construction wherein said driving coupling between said counter-shaft and said draw-off mechanism comprises a series of adjacent coupling discs each of which excepting the first is freely rotatable on said counter-shaft, each of

said discs excepting the last of the series having an eccentrically positioned pin projecting from one face thereof and each of said discs excepting the first of the series having an arcuate groove in its opposite face concentric with the axis thereof, each of said grooves seating the pin of the disc adjacent thereto, means for keying the first disc of the series to said counter-shaft and means for driving the draw-off mechanism from the last disc of the series, the sum of the circumferential lengths of the arcuate grooves in said coupling discs being greater than the angle of rotary motion of said knitting cylinders as imparted to said counter-shaft during the periods of alternate rotary motion of said knitting cylinders, whereby to drive said draw-off mechanism continuously in unison with said knitting cylinders during normal rotary knitting periods and to completely interrupt the drive thereto during the periods of alternate rotary motion of said knitting cylinders.

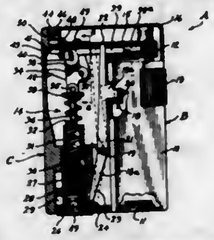
2,640,339
STOCKING
George D. Dowell, Winston-Salem, N. C., assignor to Hanes Hosiery Mills Company, Winston-Salem, N. C., a corporation of North Carolina
Application April 25, 1952, Serial No. 284,327
4 Claims. (Cl. 66—182)



1. As a new article of manufacture, a stocking having a leg portion and an instep portion in which tuck stitches occur in spaced courses along diagonal lines throughout the fabric; plain knitted heel and toe pockets; and a high heel area at the back above the heel pocket reinforced by a splicing yarn which is interknitted with a main yarn used in the knitting of the leg and the instep portions of the stocking, and of which floats extend across the tuck loops of said main yarn.

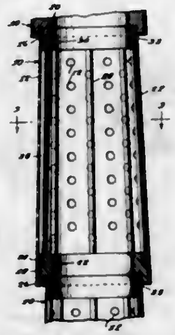
2,640,340
CIGARETTE LIGHTER
Thomas Hallworth Batt, Toronto, Ontario, Canada
Application November 13, 1950, Serial No. 195,347
4 Claims. (Cl. 67—7.1)

1. The combination in a pocket lighter of a lighter body formed of two main separable components, a flint wheel on one component, a flint pressure mechanism including a flint tube for carrying a flint in the other component and positioned to cause a flint in the flint tube to engage the flint wheel when the components are assembled, latch mechanism for maintaining the components in assembled relationship, and flint pressure release means forming a part of said latch mechanism for releasing said flint pressure mechanism prior to the separation of said separable components when said latch is actuated to separate said components, a force translating member, a pin pivotally mounting said member and disposed adjacent an extended line of the loaded axis of said spring, means connecting said member and the flint pressure member to cause



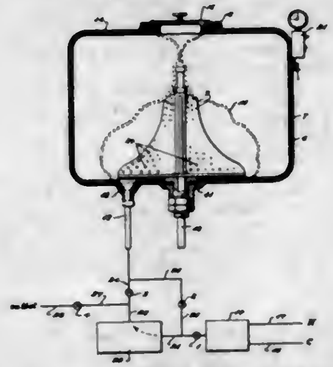
the latter to move when said member is rotated about said pin by said spring, said spring being disposable on expansion and movement of said pressure member such that its axis is substantially displaced from a position adjacent said pin whereby the moment arm of action of said spring is increasable as said pressure moves during wear of the flint.

2,640,341
YARN CARRIER AND ADAPTER FOR PACKAGE DYEING
Robert A. Russell, Alexander City, Ala., assignor to The Russell Manufacturing Company, Incorporated, a corporation of Alabama
Application April 3, 1950, Serial No. 153,527
3 Claims. (Cl. 68—198)



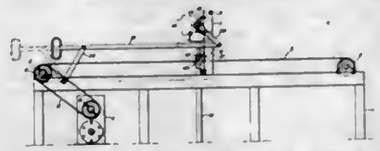
1. The combination of a tubular yarn carrier of conical form having perforated walls adapted for package dyeing of a yarn package wound thereon, with an adapter of conical form for supporting said yarn carrier during winding of a yarn package thereon and subsequent dyeing of the wound yarn package, said adapter comprising end portions each of which are formed with cylindrical internal bores of the same diameter adapted to provide bearing surfaces for said adapter and supported yarn carrier on a winder spindle and on a dye machine spindle, the end portion at the bottom larger end of said adapter being further formed with a larger diameter recess for nesting over the top smaller end of an adjacent adapter and supported yarn carrier in stacking on a dye machine spindle, and an intermediate connecting portion between said end portions arranged with openings through the walls thereof extending laterally for a distance greater than the lateral spacing between the perforations in the walls of said yarn carrier whereby free access of dye liquor through the perforated walls of said yarn carrier is provided in any supported position of said yarn carrier on said adapter.

2,640,342
METHOD OF EXTRACTING LIQUIDS FROM WET MATERIALS
Henry J. Rand, Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., South Bend, Ind., a corporation of Delaware
Original application July 9, 1946, Serial No. 682,322. Divided and this application June 1, 1949, Serial No. 96,428
2 Claims. (Cl. 68—242)



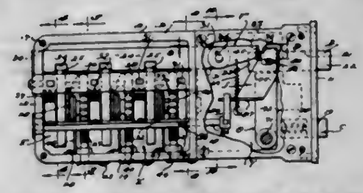
1. The method of extracting liquids from wet materials which consists of the step of confining said materials within a substantially completely closed zone of confinement, maintaining said materials in an annular relation within said zone, withdrawing liquid and air by vacuum from within said zone and from said materials, maintaining an area above said materials completely clear of said materials but not of air and water and while extracting liquid and air from said materials, simultaneously withdrawing the liquid and air from above said materials so as to lower the level of the top of said confining zone, and during the entire liquid and air withdrawal step maintaining the exterior of said confining zone exposed to atmosphere.

2,640,343
SKIN BURNING TREATMENT
Frederick Sturgis Stout, Ardmore, Pa.
Application October 3, 1950, Serial No. 188,184
6 Claims. (Cl. 69—21)



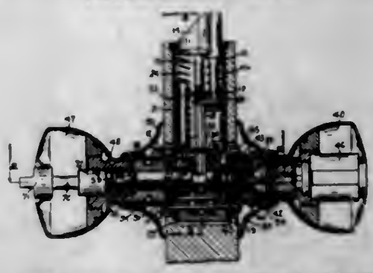
1. A process for treating skins comprising singeing a flesh surface of a skin, and removing the carbonized residue therefrom.

2,640,344
COMBINATION DOOR LOCK
Murray Margo, Hawthorne, Calif.
Application November 25, 1950, Serial No. 197,597
20 Claims. (Cl. 70—133)



1. A lock of the character described including, a case for application to a door and having inner and outer sides, a bolt carried by the case operable to lock the door, a lock mechanism carried by the case including a lock bar, a plurality of tumblers normally holding the bar and operable to release the bar and individually operable tumbler actuators accessible at one side of the case, a releasable coupling between the bolt and bar, and two manual operating means each cooperatively related to the bolt and engageable at opposite sides of the case, one operable to release the coupling and operate the bolt and the other operable to operate the bolt when the bar is released.

2,640,345
DOOR LOCK
George W. Wardwell, Jr., Trumbull, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut
Application November 26, 1949, Serial No. 129,607
8 Claims. (Cl. 70—146)

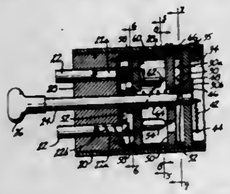


1. In a door lock having a casing, a bolt reciprocably mounted therein, and inner and outer knobs operatively connected to the bolt to retract the same, a bolt actuating knob spindle passing through the case and connected to the inner knob only to be rotated thereby, a bolt-actuating sleeve rotatably mounted on the spindle and connected to the outer knob for rotation thereby, means to move said sleeve longitudinally of its axis from one position to another, means to dog said sleeve against rotation in one of said positions, and a key-operated member in the outer knob connected to said spindle to rotate the latter when the sleeve is dogged against rotation.

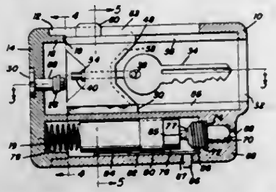
2,640,346
COMBINATION-OPERATED MECHANISM
Edward S. Giffin, Auburn, Wash.
Application April 27, 1951, Serial No. 223,297
5 Claims. (Cl. 70—313)

1. Combination-operated mechanism comprising a controlled member, means guiding said con-

trolled member for movement between an initial position and a final position, a plurality of manually shiftable elements guided for independent reciprocation, and controlled member moving means comprising first advancing actuating means operated by reciprocation of one of said elements and operate to effect incremental movement of said controlled member from its initial position toward its final position, second advancing actuating means operated by reciprocation of a second of said elements and operable to effect a further incremental movement of said controlled member toward its final position, a return single wedging member operable to effect movement of said controlled member toward its initial position, and means movable by any of a plurality of said manually shiftable elements and operable by movement thereof to effect wedging actuation of said single wedging member to effect return movement of said controlled member.

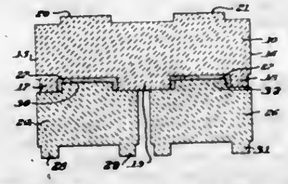


2,640,347
KEY CASE
Joseph J. Majeski, Porter, Ind.
Application April 30, 1951, Serial No. 223,707
2 Claims. (Cl. 70—456)



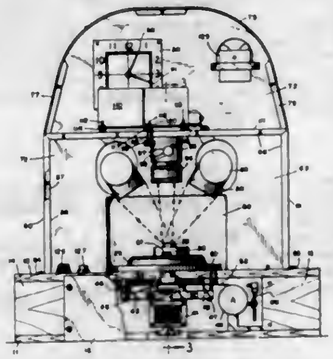
1. An elongated hollow body having a closed end with parallel transverse slots therein and an open end opposite to the closed end, a cap comprising a closure for the open end, said body having a first side wall with parallel longitudinal slots therein, the transverse and longitudinal slots being equal in number and arranged so that the axis of each transverse slot is coplanar with the axis of a longitudinal slot, said body including a second side wall opposite said first side wall and having channels parallel to said longitudinal slots, opposing channels comprising enlarged inner portions of said longitudinal slots, crosshead slides operatively mounted in said channels, said slides having reduced waist portions, said waist portions having bores of non-circular cross sectional shape extending therethrough parallel to said longitudinal slots, shanks of corresponding non-circular cross sectional shape non-rotatively extending through said bores, key engaging hooks on the ends of said shanks adjacent said transverse slots, the outer ends of said shanks being threaded, nuts on the threaded ends, buttons on said slides and extending through said longitudinal slots to facilitate manual operation of the slides.

2,640,348
DOUBLE WALL OF PLASTIC FILLED INTERLOCKED BLOCKS
Victor A. Rigaumont, Pittsburgh, Pa.
Application September 27, 1950, Serial No. 187,073
1 Claim. (Cl. 72—29)



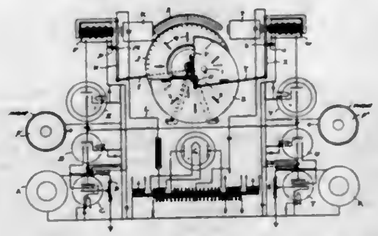
A double wall comprising adjacent parallel spaced courses of stretcher blocks forming a pair of spaced single walls, each stretcher block having a generally rectangular body with a central L-shaped key extending centrally across two intersecting faces of the stretcher block and with a pair of spaced L-shaped ribs extending across two other intersecting faces of the stretcher block, with the ribs extending adjacent opposite sides of said other faces, said key and ribs extending parallel to each other and to the exposed outer faces of the wall and the key having less projection than the ribs and less width than the spacing between the inside of the ribs, said stretcher blocks being laid with the pair of ribs across each ribbed face abutting an opposite keyed face and straddling and spaced from the key of said keyed face; said double wall also comprising at least one course of header blocks across an adjacent pair of spaced stretcher block courses, each header block having a generally rectangular body with a pair of spaced L-shaped keys extending across two intersecting faces of the header blocks and with one central and two outer L-shaped ribs extending in spaced relation across two other intersecting faces of the header block, said header block keys and ribs extending parallel to each other and to the exposed faces of the wall, the keys of the header and stretcher blocks having equal width and projection and the ribs of the header and stretcher blocks having equal projection and having equal spacing between each pair of adjacent ribs of each block, the central rib of each header block being wider than the space between the said single walls but narrower than the space between each pair of header block keys, the header blocks being laid with the outer edges of their three ribs abutting opposite keyed faces of adjacent stretcher and header blocks with each key of the latter faces straddled between and spaced from the central and one outer rib of the opposite header block face, each header block having one of its keys aligned in the same vertical plane with the keys of the stretcher blocks which form one of said single walls and its other key aligned with the keys of the stretcher blocks which form the other said single wall, having its outer pair of ribs adjacent and parallel to the respective exposed outer faces of the double wall and each aligned in the same vertical plane with the stretcher block ribs adjacent the same exposed face of the double wall, having the vertical leg of its central rib abutting an opposite vertical keyed face of an adjacent header block between and spaced from the keys thereof, and having the horizontal leg of its central rib extending along and across the space between said single walls and on each side of said space overlapping and abutting a keyed horizontal face of a stretcher block alongside and spaced from the key thereof; and grouting confined in the vertical and horizontal spaces formed between opposite faces of the blocks along each key and between the pair of ribs straddling the key, said central ribs of the header blocks serving to strengthen the header blocks and to channel flow of fresh grouting along the spaces between the keys and their straddling ribs while keeping it out of the space between the pair of single walls formed by the stretcher blocks.

2,640,349
WATCH REGULATING APPARATUS
Thomas B. Gibbs, Delavan, Wis., assignor to Gibbs Manufacturing and Research Corporation, Janesville, Wis., a corporation of Wisconsin
Application August 6, 1948, Serial No. 42,980
16 Claims. (Cl. 73—6)



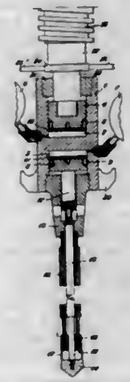
5. Apparatus for regulating watches, comprising a support for a watch, a standard clock, means for forming an image of the face of said watch on the face of said clock, mounting means for said support permitting rotation thereof to align a hand in said image with the corresponding hand of said clock, a type wheel and means for setting it by rotation of said support, and printing mechanism including said type wheel for recording the amount said watch is fast or slow.

2,640,350
MEANS FOR TESTING THE ACCURACY OF WATCHES
Herald B. Greening, Hamilton, Ontario, Canada
Application May 18, 1946, Serial No. 670,805
3 Claims. (Cl. 73—6)



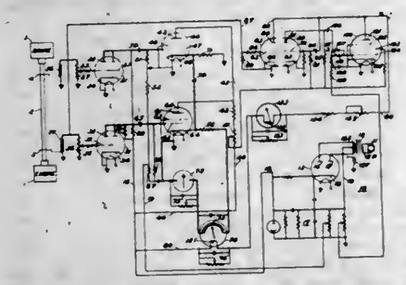
1. A means for testing watches comprising a microphone adapted to transform the sound waves produced by the tick of one watch into electrical impulses, means for amplifying the electrical impulses of the microphone, a rotatable disc having circumferentially spaced markings thereon, reciprocal means actuated by the amplified electrical impulses forming a direct drive driving said disc at a speed corresponding to the frequency of the ticks of said watch, a light source positioned to direct light towards the marked face of said disc, a second microphone adapted to transform the sound waves produced by the tick of a second watch to be compared with the aforesaid watch into electrical impulses, means for amplifying said latter electrical impulses, and means actuated by said amplified impulses of the second microphone and controlling the illumination of said disc by said light source for producing regular periodic light flashes to illuminate the marked surface of said disc, said latter means comprising a pair of opposed magnets, an armature mounted to reciprocate between said magnets, electric contact means carried by said armature for switching the current flow through one of the magnets of said pair to flow through the opposed magnet once each tick of a watch giving rise to said latter amplified electrical impulses to reciprocate said armature, and means connected with said armature for rotating said disc each reciprocation.

2,640,351
DEVICE FOR MEASURING SOIL RESISTANCE
André Paul Jourdain, Liege, Belgium, assignor to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium
Application June 7, 1950, Serial No. 166,740
In France June 16, 1949
4 Claims. (Cl. 73—84)



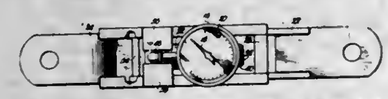
1. A device for measuring soil resistance, including a boring point to be driven into the ground, a rod operatively connected to said point, an outer sheath slidably arranged with practically no friction around said rod, a tight seal between the lower portions of the sheath and the rod, a body having a hydraulic cylinder at the lower end adapted to transmit a driving force to the said sheath, a piston mounted in said cylinder and adapted to transmit a driving force to the said rod, means for measuring the pressure effective in said cylinder, means for applying a hydraulic pressure onto said body, and means for measuring the latter hydraulic pressure.

2,640,352
ELECTRONIC TORQUEMETER AND HORSEPOWER INDICATOR
Lynn E. Ellison, Crystal Lake, and Ronald R. Proctor, Evanston, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application March 19, 1948, Serial No. 15,928
4 Claims. (Cl. 73—136)



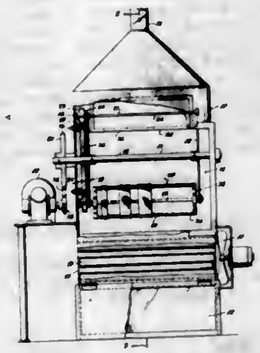
1. A power indicating apparatus comprising, in combination with a shaft for delivering power a first voltage generating means comprising a pin on said shaft and a magnet and coil reluctance generator mounted close to said pin, being held in fixed space relationship thereto, resistance coupled amplifying means connected to said impulse generating means, a gas discharge relay tube having its grid connected to the output of said amplifying means so that it is rendered conducting by a signal therefrom, a second voltage generating unit substantially identical with said first and displaced therefrom along said shaft, a second amplifying unit substantially identical with said first, and a second gas discharge relay tube substantially like said first, said gas discharge tubes receiving their plate voltages from a common source and having their cathodes capacitively coupled whereby a time separation of the voltage pulses generated at the shaft will cause the separate tubes to conduct, but cause the one to quench the conduction of the second, resistance means connected to one of said relay tubes to conduct its current to ground and resistance means connected with the second relay tube to conduct the current signal therefrom to an averaging circuit so that the ratio of conducting to non-conducting time thereof is directly proportional to the current obtained, an amplifying stage to receive impulses from one of said voltage generating units and an integrating and measuring stage connected thereto to develop a current proportional to the speed of the shaft and means in the circuit to combine the two current quantities, thereby to indicate power.

2,640,353
HYDRAULIC TRACTOR DRAWBAR POUNDS PULL TESTER
Calvin Q. Hefner, Sublette, Kans.
Application September 16, 1950, Serial No. 185,459
2 Claims. (Cl. 73—141)



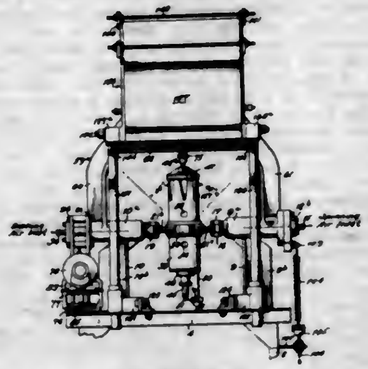
1. A pounds pull tester of the character described comprising an elongated, longitudinally U-shaped section having means at one end thereof for attachment to a towing tractor or the like, and a laterally extending portion at the opposite bight end thereof; an hydraulically-operated gauge mounted on said portion; a cylinder, having a partial filling of fluid, carried by said portion and in communication with the gauge; a plunger slidably disposed in the cylinder with a portion thereof extending beyond the cylinder; a second section having means at one end thereof for attachment to a towed implement or the like, said second section having a pair of opposed, longitudinally extending ways, the first-mentioned section having elongated portions slidably disposed within said ways; and an abutment on the second section at the opposite end thereof separate from the plunger and positioned to slide the plunger in the cylinder toward said laterally extending portion as the second section slides upon the first-mentioned section to move the gauge, the cylinder, and the plunger toward the abutment, and thereby force the plunger into engagement with the abutment, the extended portion of said plunger having a closed, expansible, bellows skirt thereover, said skirt being formed to house the extended portion of the plunger as the length varies due to movement of the plunger in the cylinder.

2,640,354
TESTING APPARATUS FOR TESTING THE FADING CHARACTERISTICS OF TEXTILE MATERIAL
Rolf Bernegger, Hawthorne, N. J., assignor to Cliffside Dyeing Corp., Paterson, N. J., a corporation of New Jersey
Application March 15, 1950, Serial No. 149,712
9 Claims. (Cl. 73—159)



1. Apparatus for testing the fading characteristics of textile material when exposed to gases, comprising a substantially closed housing, a rotating carrier mounted for rotation about a substantially horizontal axis and located within said housing, means for rotating said rotating carrier, a plurality of individual testing frames for carrying textile samples mounted on said rotating carrier for rotation in respect thereto respectively about substantially horizontal axes parallel with and spaced from the axis of rotation of said rotating carrier, means responsive to the rotation of said rotating carrier for rotating said testing frames in respect to said rotating carrier about their respective axis, apparatus associated with said housing for the generation of products of combustion, means for conducting products of combustion from the generating apparatus therefor to the interior of said housing, a plurality of cooling ducts disposed in the path of the products of combustion from said generating apparatus to said housing for controlling the temperature of the products of combustion at the time they are admitted to said housing for contact with samples of textile material on said testing frames, and means for the exhaust of products of combustion from said housing.

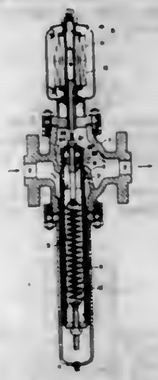
2,640,355
BALLISTICS TESTING INSTRUMENT
Robert L. Pigford, Newark, Del., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Army
Application April 14, 1950, Serial No. 155,909
19 Claims. (Cl. 73—167)



1. In a ballistics testing machine, a rotor simulating in size, shape, and moments of inertia, an actual projectile whose characteristics in flight are to be determined, means mounting said rotor for universal pivotal movement about horizontal axes through its center of gravity, means for spinning said rotor about its longitudinal axis, and means operable to apply a known force having a component parallel to said longitudinal axis, to said rotor at a point on said axis forwardly of said center of gravity.

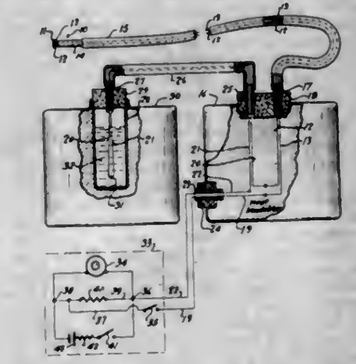
2,640,356
VARIABLE ORIFICE FLOWMETER
Jack F. Shannon, Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application April 22, 1950, Serial No. 157,597
2 Claims. (Cl. 73—206)

3. A gas flowmeter including in combination, a housing having inlet and outlet ports and a separating partition therebetween providing inlet and outlet port housing spaces, a cylindrical member supported by the partition and extending therethrough, said cylindrical member opening and projecting at one end into the outlet port housing space, and the cylindrical member having slots formed in the wall portion projecting into the outlet port housing space and which terminate at the separating partition, a plug reciprocable within the cylindrical member cooperating with the slots to form a variable opening between the ports, an insert member within the slotted wall portion of the cylindrical member fixing the longitudinal dimension of the slots at a dimension less than that of the reciprocating plug, means closing the insert member outwardly



of the plug thus forming a pressure chamber, reciprocable movement of the plug into the pressure chamber being opposed by the gas pressure within the chamber between the plug and closing means, means attached to the inlet side of the plug for yieldingly urging the plug toward a slot closing position, and means for obtaining a manifestation of plug position.

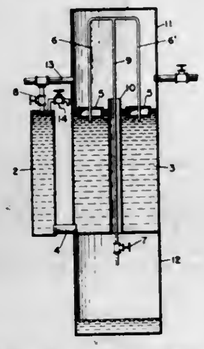
2,640,357
APPARATUS FOR THE DIAGNOSIS AND THE CONTROL OF TREATMENT OF DISEASES OF THE EYE
William V. Stephenson, Toledo, Ohio
Application July 9, 1952, Serial No. 297,824
5 Claims. (Cl. 73—361)



3. In a thermocouple actuated temperature measuring apparatus having a galvanometer for indicating the thermocouple potential, the improvements consisting of a second thermocouple constructed from two materials identical to those of the first said thermocouple, means for main-

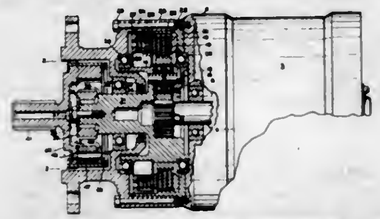
taining the junction of said second thermocouple at a constant reference temperature, the junctions of said first and second thermocouples having one pair of like wires connected to each other and the other pair of like wires in series with lead wires to said galvanometer, and a thermally insulated enclosure for the connections between the first said pair of like wires and the connections between the other of said pairs of like wires and said lead wires.

2,640,358
SAMPLER
William L. McClure, Arden, Del., and Robert N. Pim, Philadelphia, Pa., assignors to Sun Oil Company, Philadelphia, Pa. a corporation of New Jersey
Application December 11, 1947, Serial No. 791,138
4 Claims. (Cl. 73—421.5)



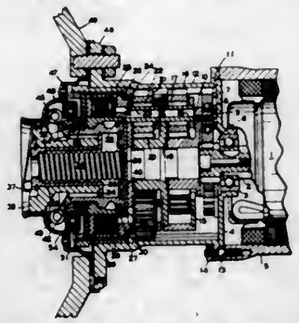
1. A constant rate gas sampler comprising an enclosed gas sample receiver; a valved conduit communicating with said gas sample receiver adapted to supply gas sample to said gas sample receiver; an enclosed liquid container; communicating means between said gas sample source and said liquid container, said communicating means communicating with said liquid container at a position above the liquid level therein; communicating means between said gas sample receiver and said liquid container whereby free liquid flow therebetween is maintained; an enclosed liquid receiving vessel positioned below said liquid container; a centrally positioned vertical conduit extending above the liquid level in said liquid container, and communicating with said liquid receiving vessel; a float of torus shape positioned within said liquid container, said vertical conduit extending through the aperture of said torus float; a siphon tube having a plurality of legs attached to said float at equispaced intervals thereon, each of said legs extending a fixed distance below the surface of the liquid level; a single leg of said siphon extending through said vertical conduit adapted to remove liquid from said liquid container and supply said removed liquid to said liquid receiving vessel, said single leg extending above said vertical conduit and thereabove connecting and communicating with each of said plurality of legs; said float carrying said siphon adapted to ascend and descend in direct relation to changes in position of the liquid level in said liquid container, said movement being independent of said liquid container, said vertical conduit therein, and said liquid receiving vessel.

2,640,359
HIGH-SPEED STARTER
Samuel Gilbert, Cedar Grove, and Charles Metsger, Morris Plains, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 26, 1949, Serial No. 117,762
4 Claims. (Cl. 74—7)



1. In a starter for engines requiring a high cranking speed, the combination comprising driving means, a rotatable output member, a ratchet member carried thereby, said ratchet member being reversible and adapted to be carried facing in either direction, gearing means for operatively connecting said driving means to said output member, torque limiting means interposed between said driving means and said output member, a pawl carrier concentric with said output member and adapted to engage a shaft member of the engine to be started, a plurality of pairs of posts mounted on said carrier, a plurality of pawls pivotally mounted on one post of each of said pair of posts, spring means for biasing said pawls inward into engagement with said ratchet member, said spring means being mounted on the other of said posts, said pawls being responsive to a predetermined speed of rotation of said carrier to overcome said bias and move outward to disengage from said ratchet, and means to limit the outward movement of said pawls, said pawls and said springs being interchangeable to permit operation in either direction of rotation as determined by the direction said ratchet member is facing.

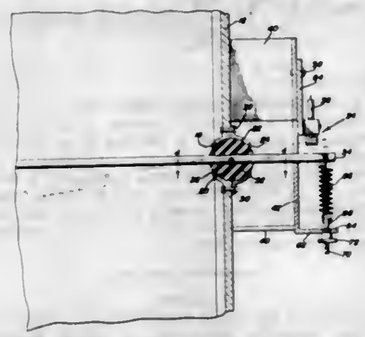
2,640,360
STARTER JAW ADVANCING MECHANISM
Henry Troeger, Ramsey, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 28, 1952, Serial No. 273,961
5 Claims. (Cl. 74—7)



1. In an engine starter, an assembly comprising an axially stationary rotatable nut, a screw shaft splined to said nut for rotation with and

axial movement relative thereto, a starter jaw member secured to said screw shaft for rotation and axial movement therewith, a restraining member movable from a position engaging said starter jaw to a disengaging position, spring means for normally biasing said restraining member in said engaging position, and means responsive to axial movement of said screw shaft to cause said spring means to bias said restraining member in said disengaging position.

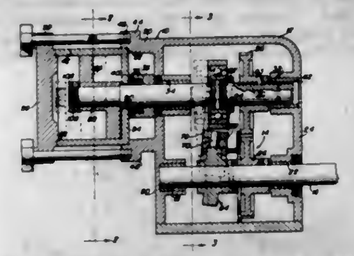
2,640,361
LEVEL CONTROL
Eugene J. Scray, Sr., Bound Brook, N. J.
Application February 7, 1950, Serial No. 142,730
3 Claims. (Cl. 74—18)



1. An article of manufacture comprising a plate having an opening therethrough, a substantially spherical resilient member in said opening, clamping means for removably clamping said member to said plate, said member being firmly secured to and in sealing engagement with said plate, an arm extending through said opening and said member, said arm being firmly secured to and in sealing engagement with said member and spaced from said plate for oscillatory movement therethrough upon flexing movement of said member, means for limiting oscillation movement of said arm to a single plane; said last means including oppositely extending pivot pins on said arm and also extending through said member, said plate having recesses formed in the walls defining said opening, said recesses rotatably receiving the outer ends of said pins.

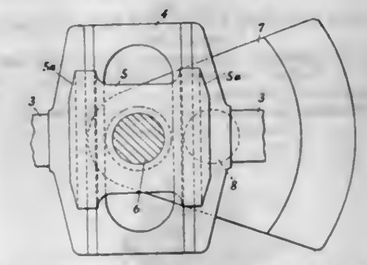
2,640,362
ROTARY RECIPROCATING PUMP DRIVE
Eugene D. Taylor, Kenosha, Wis.
Application January 17, 1950, Serial No. 138,960
2 Claims. (Cl. 74—22)

1. A rotary reciprocating pump comprising a housing, a drive shaft rotatably journaled in said housing, a driven shaft for the pump piston journaled in said housing and in offset parallel relation to said drive shaft, gear means actuated by the drive shaft for rotating the driven shaft in response to rotation of said drive shaft, and means interconnecting said drive and driven shafts for effecting reciprocation of said driven shaft in response to rotation of said drive shaft, said last named means including a cam disk secured to said drive shaft for rotation therewith, said cam disk lying in a plane forming an acute angle with the axis of said drive shaft, a yoke member engaged on a peripheral portion of said disk for pivoting movement in response to rotation of said disk, said yoke member having its upper end pivotally and rotatably connected to said driven shaft whereby rotation of said drive shaft effects



pivoting movement of said yoke member and whereby said driven shaft can be reciprocated at the same time said gear means effects rotation of said driven shaft.

2,640,363
MECHANISM FOR CONVERTING RECIPROCATING MOTION INTO ROTARY MOTION
Gilbert Edgar Manley, Henley-in-Arden, England
Application July 17, 1950, Serial No. 174,178
In Great Britain February 20, 1948
3 Claims. (Cl. 74—50)

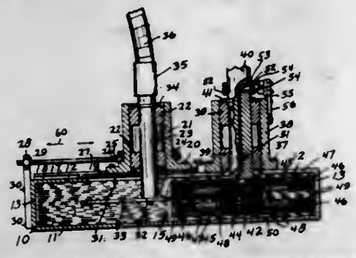


1. A mechanism for converting reciprocatory motion into rotary motion, comprising in combination a rotatable part, a crank pin on the rotatable part, a bearing block rotatably mounted on and surrounding the crank pin, and a slotted link through which the crank pin extends, and which is embraced by the bearing block, the link having external bearing surfaces disposed longitudinally at opposite sides of the crank pin in planes transverse to the plane of the link, and the bearing block having complementary bearing surfaces disposed at opposite sides of the crank pin in sliding contact with the external bearing surfaces of the link.

2,640,364
VARIABLE SPEED MAGNETIC FLUID CLUTCH DRIVE
Gorman R. Nelson, Sioux Falls, S. Dak., assignor to Electronic Engineering Company of Sioux Falls, a division of The Iseman Corporation, Sioux Falls, S. Dak., a corporation of South Dakota
Application September 4, 1951, Serial No. 244,955
7 Claims. (Cl. 74—199)

1. A variable speed magnetic fluid clutch drive comprising a driving shaft and a driven shaft, a magnetically permeable disc attached to said

driving shaft, a magnetized disc-like member attached to said driven shaft, said disc and said disc-like member rotating in co-planar relationship whereby magnetization of said disc-like member will cause said disc to magnetically bind with said disc-like member when opposed faces of said disc and said disc-like member are opposite each other to thereby rotate said disc-like



member, means for adjustably positioning said disc along a radial line of said disc-like member to thereby adjustably change the speed of rotation of said driven shaft, a casing receiving said disc and said disc-like member, a magnetic fluid contained in said casing, said disc and said disc-like member being immersed in said magnetic fluid.

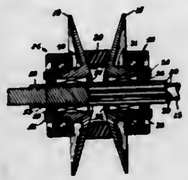
2,640,365

LOW-FRICTION VARIABLE PULLEY DISK MOUNTING

John S. Michie, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana

Application November 18, 1949, Serial No. 128,101

9 Claims. (Cl. 74—230.17)



1. An expansible V-pulley mounting comprising a splined shaft, a coned disc mounted on said shaft to rotate therewith, and a mating coned disc mounted on said shaft to rotate therewith and for axial adjustment therealong relative to said first-named disc, a "ball bushing" supporting said mating disc upon the splined region of said shaft, and means fixed with respect to said mating disc and interdigitated with the splined region of said shaft.

2,640,366

COATED BELT

Emil H. Knuth, Mentor, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application May 10, 1950, Serial No. 161,263

2 Claims. (Cl. 74—231)

1. A power transmitting belt of improved traction properties, said belt having a fibrous base impregnated with a lubricating oil and a traction surface coating consisting of chlorinated paraffin wax containing from 35% to 75% of chemically combined chlorine, a portion of said chlorinated wax lying on the surface of said belt and a portion thereof being below the surface thereof.

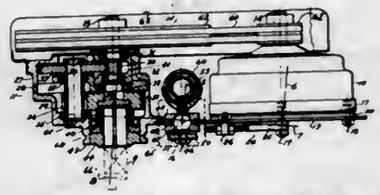
2,640,367

UNIMOUNT DRIVE POWER TRANSMISSION UNIT

John D. Rieser, San Francisco, Calif.

Application July 10, 1947, Serial No. 760,044

13 Claims. (Cl. 74—242.13)



1. A counterpoise comprising a base having a stud universally mounted therein, support means mounted on said stud, a second stud mounted on said support means, means universally connecting with said second stud a structure whose force is to be counteracted, and resilient means engaging said base and said structure and constantly exerting a force in a direction opposite to said first-named force.

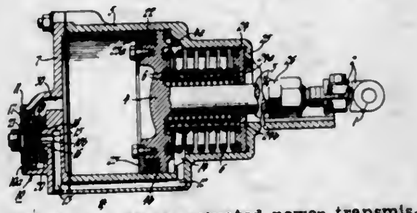
2,640,368

FLUID ACTUATOR CLUTCH CONTROL

Hans O. Schjolin, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 10, 1948, Serial No. 38,083

15 Claims. (Cl. 74—336.5)



1. In fluid pressure actuated power transmissions, wherein a fluid pressure supply system embodying fluid pressure pump and storage means also embodies control valving adapted to feed to and to cut off fluid pressure from clutch actuator mechanism, the combination of clutch operating means including control valving and a servo cylinder having a contained translatable piston dividing two end chambers, one chamber of which is adapted to receive the pressure fluid fed from said valving for moving said piston to diminish the effective volume of the other chamber, the second chamber being connected to exhaust, a transfer passage connected to said second chamber, a valve spring, a pressure responsive valve loaded by said spring subject to the pressure of the fluid fed to said first-named chamber by said valving for closing said transfer passage and subject to the force of said spring for connecting said passage with said second chamber when said control valving is set to cut off the pressure fluid feed to said first-named chamber, a variable speed ratio drive having ratio-determining clutches actuatable by said mechanism, control

linkages connecting said piston with said mechanism, and an operator-operated control means effective to select the action of said control valve means and said pressure-responsive valve, said control valve means including a pressure fluid directing valve having a delivery passage connected to cause said pressure responsive valve to move against its spring force to open and to deliver actuating fluid pressure thereafter to that one of said chambers first mentioned, and said pressure responsive valve having an exhaust port exclusively operable to connect to said transfer passage when said pressure directing valve is moved to cut off the pressure feed to said first-named chamber.

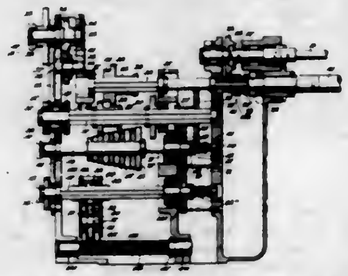
2,640,369

FEEDBOX TRANSMISSION FOR LATHES

William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio

Application September 8, 1948, Serial No. 48,244

3 Claims. (Cl. 74—348)



1. In a feed box for a lathe carriage or the like having shiftable gears adapted to provide a series of speed ranges, a pair of parallel shafts, selective means for driving one of said shafts, a cone of gears fixed on one of said shafts, a slidable tumbler gear unit pivotally mounted upon the other of said shafts, and having a gear splined to said shaft, a lever having a rotative connection with said tumbler gear for swinging the same into and out of mesh with the respective gears of the cone, a knob disposed adjacent to the lever and mounted upon a common axis therewith, a gear train in connection with said knob, a rod having a rack meshing with said gear train, a slider on said rod and a shifter fork mounted on said slider and engaged with said tumbler gear unit for shifting the tumbler unit longitudinally relative to said cone of gears when said knob is rotated.

2,640,370

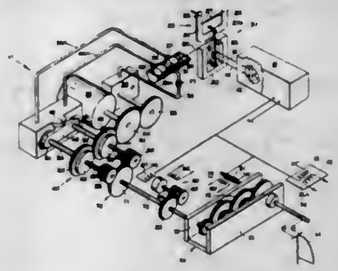
HYDRAULIC SERVO SYSTEM

Norman B. Murphy, Tenafly, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application December 26, 1950, Serial No. 202,599

9 Claims. (Cl. 74—388)

1. An automatic pilot for a high speed aircraft having a movable control surface thereon, comprising a device for developing a control signal of a phase determined by the direction of craft displacement from a pre-selected reference, reversible means for moving the surface in one direction or another comprising a pair of oppositely driven members, a continuously operating motor for driving said driven members, a normally disengaged clutch which, when engaged, connects one of the driven members to move the surface in one direction, a second normally disengaged clutch which, when engaged, connects the other of the driven members to move the surface in another direction, actuating means comprising a pivotal member which, when pivoted in one di-



rection, engages the first clutch whereby the surface is moved in said one direction, and which, when pivoted in another direction, engages the second clutch whereby the surface is moved in said other direction, and means responsive to said control signal for operating said pivoted member in one direction or another depending upon the phase of the signal.

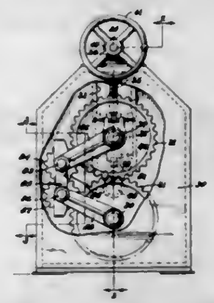
2,640,371

DRIVE FOR ADJUSTABLE-AXIS MATING ROTORS

John R. Rosenleaf, Enterprise, Kans., assignor to The J. B. Ehrsam & Sons Manufacturing Co., Enterprise, Kans., a corporation of Kansas

Original application January 3, 1948, Serial No. 459. Divided and this application March 1, 1951, Serial No. 213,337

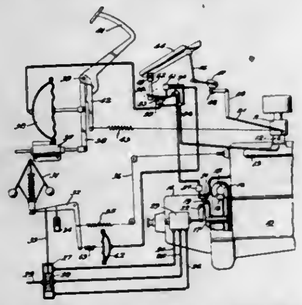
6 Claims. (Cl. 74—397)



1. In a device of the class described, a pair of rotors, bearing means for each of said rotors mounting said rotors for rotation upon spaced parallel axes, means for shifting the bearing means for one of said rotors toward and away from the bearing means for the other of said rotors, a gear rotatable with each of said rotors, gear means providing an operative connection between said gears throughout shifting movement of said first-named bearing means and comprising two intermeshing idler gears mounted on parallel axes, said idler gears respectively meshing with the gears on said rotors, and means retaining the axes of said idler gears always in a

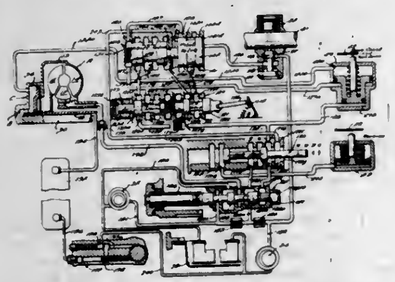
common plane parallel with the plane common to the axes of said rotors, said last-named means including a link connecting the axis of one of said rotors with the axis of one of said idler gears, a second link connecting the axis of the other of said rotors with the axis of the other of said idler gears, and a third link connecting the axis of one of said idler gears with a fixed axis in the plane common to said rotor axes.

2,640,372
CONTROL MEANS FOR AUTOMOTIVE VEHICLES
Adiel Y. Dodge, Rockford, Ill.
Application December 16, 1950, Serial No. 201,173
16 Claims. (Cl. 74—472)



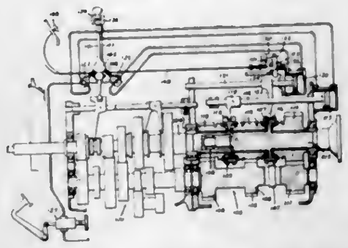
1. In an automotive vehicle having an engine, brakes, a variable speed transmission, and control means for the transmission, a control pedal, means mounting the pedal for pivotal movement in a vertical plane and for a second movement of a different type; a connection from the pedal to the engine to control the engine in response to said pivotal movement, and a connection from the pedal to the control means for the transmission to vary the operation of the control means in response to said second movement.

2,640,373
TRANSMISSION
Joseph Jandasek, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 15, 1949, Serial No. 127,455
15 Claims. (Cl. 74—645)



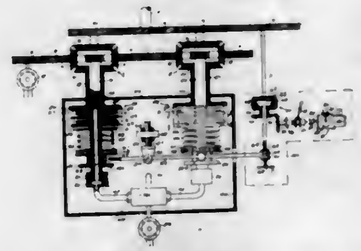
1. In a drive train including an engine driven power transmission unit and an engine throttle control, an engine driven input shaft, an output shaft, a hydraulic torque converter unit mounted therebetween comprising operatively associated impeller, turbine and reaction wheels, means drivingly connecting said input shaft and said impeller wheel, a planetary gear train, comprising an annulus gear, a sun gear and a planet pinion carrier mounting planet pinion gears, interposed between said converter unit and said output shaft, means drivingly connecting said turbine wheel to said annulus gear, drive transmitting means connecting said planet pinion carrier to said output shaft, brake means adapted to anchor said sun gear against rotation so as to activate said gear train and provide means for the transmission of a combination hydraulically and mechanically transmitted, torque multiplying, underdrive to said output shaft, a clutch means adapted to be connected between said input and output shafts to provide means for the transmission of a positive, direct drive therebetween, and differential pressure fluid operated control means operatively associated with said brake means and said clutch means to automatically and alternately apply and release the said brake and clutch means to thereby automatically effect the transitions between underdrive and direct drive, said control means including a source of pressure fluid responsive to the speed of the output shaft, a source of pressure fluid responsive to the opening of the engine throttle and a differential pressure operated valve connected to said sources of variable pressure and actuable by the pressure differential therebetween to automatically operate said clutch and brake means.

2,640,374
DUAL TRANSMISSION CONTROL
Delbert E. Willis, New Brunswick, N. J., assignor to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application December 7, 1949, Serial No. 131,529
8 Claims. (Cl. 74—745)



1. A shifting mechanism for an automotive vehicle having a main transmission, a manually actuated shift lever for shifting said transmission, a multispeed auxiliary transmission having a pair of shiftable clutch members therein to selectively provide more than two speed changes, and a separate fluid motor for shifting each of said clutch members; the combination of a separate valve to control each of said motors, each valve including a movable member for controlling the flow of fluid to its respective motor, a pair of sleeves rotatably mounted on said shaft lever adjacent to its outer end for rotation by the fingers, and a pair of flexible shafts extending lengthwise of said shift lever, one shaft being connected at one end to one of said movable members, and at its opposite end to one of said sleeves, and the other flexible shaft being connected at its opposite ends to the other sleeve and the other movable member.

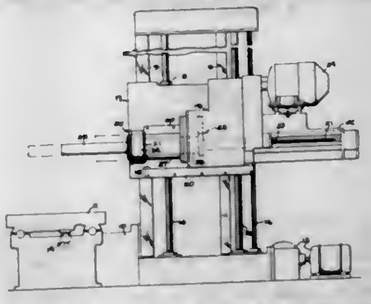
2,640,375
HYDRODYNAMIC GEAR TRANSMISSION
Lev A. Trofimov, Willoughby, Ohio
Application March 11, 1949, Serial No. 80,871
6 Claims. (Cl. 74—750)



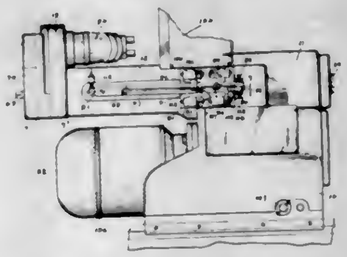
1. A power transmission comprising a power output element; a pair of differential gearings; each gearing comprising three elements, namely, a rotable spider element rotatably supporting a pinion, and two rotable gears meshed with the pinion; a first element of each gearing adapted to be continuously driven by motor power; a second element of each gearing being connected to the output element by means adapted to apply respective torques oppositely thereto; the third elements of the gearings being continuously driven by the first elements when motor driven; restraining means restraining relative rotation of the first and third elements to cause the second elements to apply torques to the output element as aforesaid, and control means to control the restraining means to control the torques applied to the output element and to balance and unbalance them, to cause the output shaft to have zero speed when the applied torques are balanced and to rotate in forward or reverse direction when the said applied torques are correspondingly unbalanced, and to have a rotational speed determined by the degree of applied torque imbalance; said restraining and control means comprising a pair of relatively-rotable elements for each gearing having mutually confronting faces with a space therebetween, one of the elements of each pair being connected to the corresponding one of the continuously rotating third elements, and the other of the pair connected to the corresponding one of the first elements; means to supply liquid to the said spaces to maintin a torque-transmitting liquid film in each space, and means to increase the thickness of one film relative to that of the other to vary relatively the transmitted torques.

2,640,376
BORING MACHINE
Arthur W. Johnson, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application February 8, 1951, Serial No. 210,057
1 Claim. (Cl. 77—3)

A boring machine having, in combination, an upright column, a saddle slidable vertically on said column, vertically spaced horizontal guideways extending along the front of said saddle, a head slidable along said guideways and having a cylindrical nonrotatable extension rigid with and projecting from one end of the head between and parallel to said guideways, a rotary spindle for supporting a boring cutter journaled in said extension and projecting beyond the free end of the extension and said saddle end, a ring rigidly secured to and projecting forwardly from said saddle adjacent the said saddle end, and a guide surface formed in said ring and slidably receiving said extension to provide rigid lateral support for the latter at a point spaced from said head.

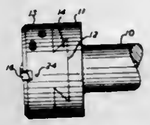


2,640,377
BORING MILL
William K. Millholland, Jr., Indianapolis, Ind.
Application August 1, 1951, Serial No. 239,743
3 Claims. (Cl. 77—3)



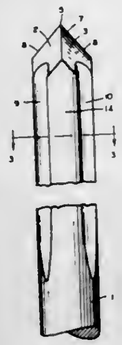
1. In a boring mill, the combination of a housing; a bar revolubly and longitudinally shiftable in respect to the housing; motor means revolving the bar; a screw-shaft for longitudinally shifting the bar; motor means revolving said shaft; a disk fixed to said shaft to revolve therewith; a plate longitudinally slidable along said shaft; spring means yieldingly urging said plate toward said disk; an annular flange on said plate telescoping over the periphery of said disk, said flange and said periphery being respectively toothed for selective circumferential interengagement maintained by said spring; an abutment carried by and externally of said plate; a slide carried by said housing to be reciprocable into and out of the path of said abutment; means yieldingly retaining the slide in said path; electro-magnet means normally energized to withhold said slide from said path in opposition to said spring; a screw-shaft motor means control switch arm; a rocker member pivotally mounted on said slide to have one portion in the path of said arm and another portion in the path of said abutment to shift said arm upon abutment travel thereagainst to stop said shaft motor means; and means actuated by longitudinal travel of said bar to deenergize said electro-magnet means to have said slide stop instantaneously revolution of said screw shaft by said abutment striking said slide.

2,640,378
BORING HEAD CONSTRUCTION
Robert W. Haggar, Hamilton, Ontario, Canada
Application April 6, 1951, Serial No. 219,560
9 Claims. (Cl. 77—58)



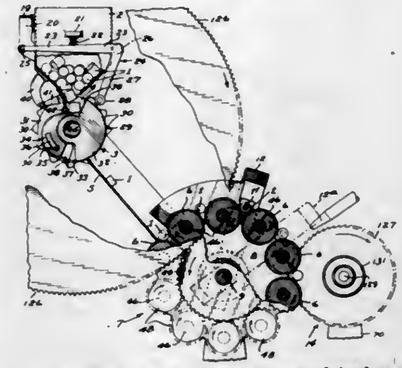
1. A boring head comprising in combination: A tool head, two opposed independent cutting tools mounted in said head, a male dovetail piece at the base of said tool head, a seating member having a shank portion, a female dovetail slot in said seating member extending transversely of the longitudinal axis of the shank thereof and adapted to slidably receive said male dovetail piece to mount the tool head thereon, and locking means for locating said tool head concentrically with said shank and fixing said head against sliding movement in the transverse sliding direction of said dovetail piece in said seating member.

2,640,379
DRILL
Mark Graves, Cleveland Heights, Ohio
Application November 28, 1951, Serial No. 258,614
1 Claim. (Cl. 77—67)



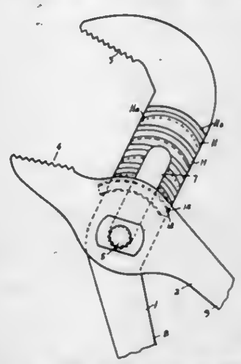
A hard, heat-resisting, drill comprising a straight elongated body portion of generally circular cross-section, a three-faced pyramidal end portion with the apex of such pyramid lying on the axial center line of said drill and forming the work-engaging point thereof, each such face being of equal area and separated from adjacent faces by radial ridges formed by the intersections of the planes of such faces, and three straight, longitudinally extending, transversely arcuate flutes throughout the length of said body portion respectively terminating symmetrically in said three end faces, the depth of each flute being approximately one-fourth the diameter of said drill and the width of each flute on a line circumferentially of said drill being substantially equal to the width of each intervening land.

2,640,380
BUTTON BLANK SLICING MACHINE
Milan R. Ostrochovsky, Fairlawn, N. J., assignor to Standard Button Machine Co., Inc., Paterson, N. J., a corporation of New York
Application August 2, 1950, Serial No. 177,185
12 Claims. (Cl. 79—15)



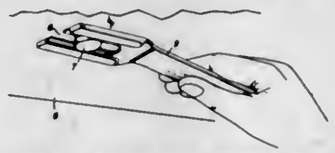
1. In a machine for slicing cylindrical cores into button blanks, in combination, a hopper for the cores having an open funnel-like bottom through which the cores escape in random positions, and a separator disc rotatable beneath the hopper and having a core receiving recess, said recess being of maximum depth at its leading end and tapering substantially to the vanishing point at its trailing end so that any core partially discharged from the hopper but unable to move free of it will be cammed back out of the way of the disc.

2,640,381
TOOL
Howard H. Manning, Meadville, Pa., assignor to Champion De Arment Tool Company, Meadville, Pa., a corporation of Pennsylvania
Application July 9, 1951, Serial No. 235,800
3 Claims. (Cl. 81—51.3)



3. In a tool having a pair of crossed members, work engaging surfaces on the members, and a pivotal joint between the members comprising a pin and slot connection preventing lateral shifting of one member relative to the other in a direction crosswise of the slot but freely permitting movement of one member relative to the other lengthwise of the slot, said pivotal joint including interfitting concentric arcuate tongue and groove elements of substantially the same radius respectively on adjacent faces of the members, the elements being formed of arcuate ribs of the same radius on said adjacent faces, one rib being on one of the adjacent faces and a plurality of ribs being on the other of the adjacent faces, said ribs having arcuate faces on the sides engaging under working pressure undercut to cause the engaged faces to cling under working pressure.

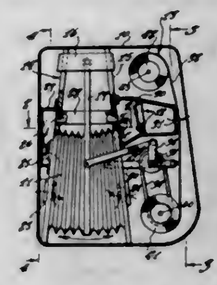
2,640,382
COMBINED WRENCH AND WEDGING TOOL FOR REMOVING SCREW PLUGS
Harry C. Grossman, Baltimore, Md.
Application January 15, 1952, Serial No. 266,500
1 Claim. (Cl. 81—119)



A combined wrench and wedging tool for removing the stripped threaded stem of a headed screw plug out of an article comprising an oblong wrench head having front and rear ends, said wrench head having a longitudinal central slot therein open at the front end of the wrench head and narrower than the plug head whereby said head is adapted to be slid forwardly in between the article and the plug head in straddling relation to said stem, and longitudinal, straight sided, parallel ribs on one side of said wrench head spaced apart and outwardly of said slot for engaging opposite sides of the plug head, and a handle on the rear end of said wrench head for sliding and turning the same edgewise, said wrench head tapering longitudinally in thickness from end to end thereof and providing an elongated flat wedge for wedging action against the plug head by sliding of said wrench head forwardly between the article and the plug head, said ribs extending from end to end of said slot so that the plug head can be entered between said ribs at the front end of the wrench head and the ribs will fit against the sides of the plug head in any position of the stem longitudinally of the slot.

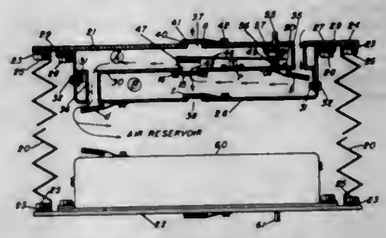
2,640,383
TOY HAND ORGAN
Charles Feltman, Lakewood, N. J.
Application January 27, 1951, Serial No. 208,148
1 Claim. (Cl. 84—92)

A toy hand organ comprising a casing, a bellows structure disposed in the casing, an accordion type organ arrangement connected to the bellows structure and adapted to receive air under pressure therefrom, an accordion type organ mounted in said casing, said casing having a series of holes over one end of the same, a music roll device having its music sheet extendable over the holes of the casing and common means for operating the bellows device and the music roll, said bellows structure comprising upwardly extending converging plates, swing plate members depending between said upwardly extending plates, bellows elements connected to the respective swing plate members, said upwardly extending plates having inlet valves for receiving air and outlet valves for expelling the air upwardly, a chamber means extending across one of the said upwardly extending plates for receiving the air and a transverse conduit extending between the



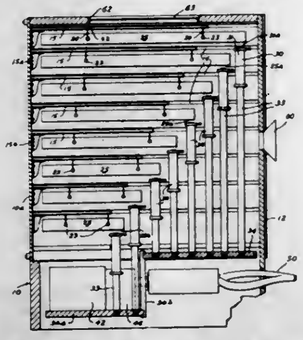
said upwardly extending plates for receiving air from the chamber and delivering the same to the front casing and the outlet valves on one of the upwardly extending members delivering air directly to said organ casing.

2,640,384
VIBRATORY REED MUSICAL INSTRUMENT
Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions Inc., Harding Township, Morris County, N. J., a corporation of New Jersey
Application November 21, 1949, Serial No. 128,580
3 Claims. (Cl. 84—376)



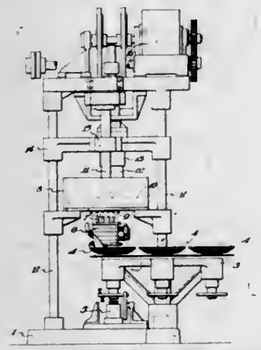
1. An accordion comprising a bellows secured to spaced plates to form a variable-capacity air reservoir, one of said plates having an aperture normally closed by a one way air valve; a housing carried by the said plate and extending into the reservoir, said housing having an aperture communicating with the reservoir; a one way air valve normally closing the said housing aperture; a fixed partition dividing the interior of the housing into a first air chamber proximate to said plate and a second air chamber proximate to said reservoir, said partition having a reed aperture therein; a first hollow member forming an air passageway between the second chamber and the atmosphere; a one way air valve closing an end of said first hollow member; a second hollow member forming an air passageway between the first chamber and the reservoir; a one way air valve normally closing an end of the second hollow member; a vibratory reed carried by the said partition and operatively associated with the reed aperture; a pivotally mounted air valve normally closing the reed aperture; and a finger-operable member actuating the pivoted valve to open the reed aperture.

2,640,385
PERCUSSION MUSICAL INSTRUMENT
Emil Carlson, Maspeth, N. Y.
Application June 14, 1950, Serial No. 168,054
4 Claims. (Cl. 84—405)



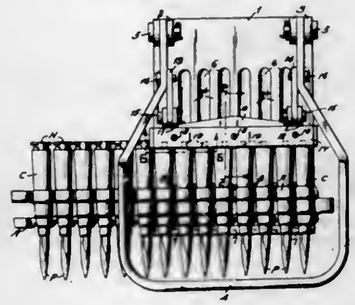
1. In a musical instrument, the combination of a casing, a plurality of suspended xylophone bars in the casing, in vertical alignment and of progressively increasing length from the lowermost to the uppermost with the inner ends portions arranged in stepped relation with one end portion of each bar extending beyond the adjacent end of the next lower bar, a solenoid associated with each of said bars and positioned in said casing with its armature adjacent the extending end of each bar in striking relationship thereto, so that energization of the solenoid will cause its armature to directly strike its bar, the adjacent ends of said bars to said armature being diagonal to said casing, a keyboard, and electrical means actuated by the keys of the keyboard to selectively energize said solenoids, thereby causing the armature of the selected solenoid to strike its associated bar directly.

2,640,386
SHELL LOADING DEVICE
Robert Charles Rollings, New Castle, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 22, 1950, Serial No. 180,801
6 Claims. (Cl. 86—20)



1. An improved apparatus for loading into containers a non-free flowing plastic material which comprises in combination, a reservoir for receiving material, one or more openings at one end of said reservoir, means for positioning the open ends of containers in abutting relationship with said openings outside of the reservoir, means of depositing a layer of material inside said reservoir, hollow members equal in number to the openings adapted to be moved through the said material to an abutting relationship with the said openings, and means for applying air under pressure directly to the interior of said hollow members.

2,640,387
TOOL FOR BELT LOADING PREENGRAVED PROJECTILES WITH CARTRIDGE CASES
Frank R. Simpson, Upper Darby, Pa., assignor to the United States of America as represented by the Secretary of the Army
Application May 28, 1951, Serial No. 228,614
5 Claims. (Cl. 86—48)



1. In a tool for the assembly of cartridges each having index means in fixed radial position on its case head, a base, means carried by said base for locating a plurality of belt links in associated side-by-side relation and securing said links against axial movement, means carried by said base for receiving and locating a plurality of cartridges each in alignment with a respective loop formed by adjacent links, a pusher bar, means mounting said bar for contact with the heads of all said cartridges to axially force the same into their respective links, and means carried by said pusher bar and engaging said index means, to prevent axial rotation of the cartridges during assembly into a belt.

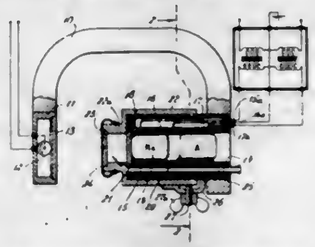
2,640,388
VIEWER FOR CAMERAS
Mitchell Shapiro, Pittsfield, Mass.
Application November 14, 1951, Serial No. 256,248
1 Claim. (Cl. 88—1.5)

A viewing hood for reflex cameras comprising, in combination, front, rear, and side flaps, the front and rear flaps being hinged at their lower edges; a top flap hinged to the front flap and, when extended, overlying the upper edges of the side flaps, whereby, by collapsing the top flap upon the front flap, the side flaps will be swung to collapsed or closed position; toggle mechanism normally to hold the front flap in erect position; a mirror attached intermediate its ends to the rear flap; struts at the lower edge of the mirror on the rear flap hinge; a rod extending transversely of the mirror adjacent its lower edge; longitudinal slots in said struts engaged by said rod, whereby said mirror can be swung to a position whereby it extends at an angle to the plane of the rear flap or retracted so as to lie flush with the face of the rear flap; a second mirror carried by the front flap for cooperation with the first flap; spring hinges for holding the



rear flap and side flaps erect or extended; and toggles for holding the front flap in erect or extended position.

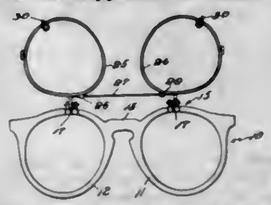
2,640,389
OXIMETER
Max D. Liston, Darien, Conn., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn., a corporation of New York
Application October 31, 1950, Serial No. 193,078
9 Claims. (Cl. 88—14)



1. In an oximeter, the combination of a frame having a pair of mountings spaced to receive a part of the body between them, a pair of gas tubes in one mounting, one of the tubes containing neon and the other argon, a window in said mounting, through which light from the tubes passes along the same path toward the second mounting, a detector in the second mounting in position to receive light from the tubes, which has passed through the part of the body, means for exciting the tubes alternately, and measuring means receiving the output of the detector and measuring the difference in the response of the detector to light from the two tubes.

2,640,390
OPHTHALMIC MOUNTING
William Smith Muncy, Providence, R. I.
Application July 29, 1952, Serial No. 301,429
5 Claims. (Cl. 88—41)

1. In an ophthalmic mounting, a main frame comprising a pair of rims, a bridge connecting said rims, a supplemental frame comprising a pair of rims, a member pivoted to each rim of the main frame on a pivot at right angles to the plane of the rims to rock about the pivot in generally the plane of the rim, said members each hingedly mounting a rim of the supplemental frame to swing about an axis parallel to the plane of the main rim, arms with hook ends on the rims of the supplemental frame extending



over the rims of the main frame and a resilient bridge connecting the rims of the supplemental frame urging the arms to engage the main rims but flexing to permit the arms to be disengaged by swinging said members on their pivots to permit swinging of the supplemental frame about its hinge connection to the main frame.

2,640,391
EYEGLASS MOUNTING
Ernst H. Moseley, Detroit, Mich.
Application July 2, 1949, Serial No. 102,730
3 Claims. (Cl. 88—42)

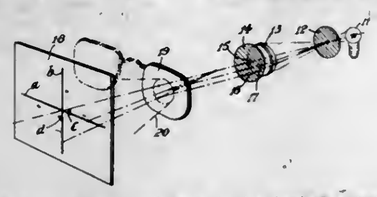


2. In an eye glass mounting including a bridge and a pair of lens mounts adapted to be connected to the bridge for universal adjustment, a pair of ball sockets one fixedly secured on each side of the bridge, a ball swivelly mounted in each socket and having a radial opening therein, a ball fixedly mounted on each lens mount, a ball socket swivelly mounted on each of the last named balls, a pin integral with and extending radially outward from each of the last named ball sockets and mounted for movement in one of said openings, whereby, by movement of the balls in their respective sockets the lens mounts may be universally adjusted relative to one another and to the bridge, and by movement of the pins in the ball openings the spacing of the mounts from the bridge and from one another may be adjusted, releasable means cooperating with each apertured ball for holding each pin immovable in its opening, and releasable means coacting with each socket for holding each ball immovable in its socket.

2,640,392
APPARATUS FOR MEASURING THE FOCAL LENGTH OF LENSES
Hyman Freeman, London, England
Application January 27, 1949, Serial No. 73,121
In Great Britain February 3, 1948
3 Claims. (Cl. 88—56)

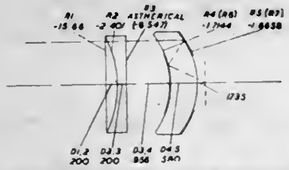
1. Apparatus for measuring the focal length of lenses, comprising a support, a source of light carried by said support, a pin-hole disc in front of said source, a collimating lens to produce a parallel beam from the light issuing from the pin-hole disc, a three-aperture opaque diaphragm to project three parallel pencils of light on to a translucent screen, ordinate and abscissa scales on said screen, one pencil of light coincid-

ing with the intersection of the co-ordinate scales, the second pencil striking the ordinate and the third pencil the abscissa scale, and a



lens support for the lens to be tested arranged at a fixed distance from said screen and between the screen and the three-aperture diaphragm.

2,640,393
REFLECTING OPTICAL OBJECTIVE
William Michael Wreathall, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company
Application March 7, 1952, Serial No. 275,283
In Great Britain March 9, 1951
14 Claims. (Cl. 88—57)



1. An optical objective, corrected for spherical and chromatic aberrations, coma, astigmatism and field curvature, and comprising a front refracting member including a convergent element and a divergent element, and a rear member separated by an air space therefrom and of meniscus form with its spherical air-exposed surfaces concave to the front, the front surface of the rear member having its central portion coated with reflecting material and the rear surface of such member having an annular outer zone similarly coated, so that light entering the objective through the front member will be refracted at the curved outer zone of the front surface of the rear member and then after two internal reflections respectively at the outer zone of the rear surface and at the central zone of the front surface will emerge from the rear member by refraction at the curved central zone of the rear surface thereof, the curvatures of the front and rear surfaces of the rear member being such that their sum lies between 1.0/F and 2.0/F and their difference between zero and .30/F, while the axial thickness of the rear member lies between .25F and .70F, where F is the equivalent focal length of the objective.

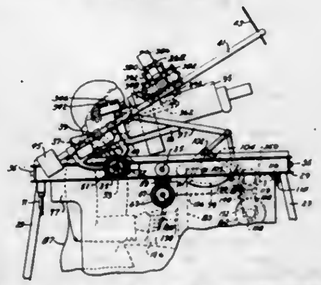
2,640,394
REAR-VISION MIRROR
Paul Bertell, Kenmore, and Lynn C. Meade, Buffalo, N. Y., assignors to Standard Mirror Company, Buffalo, N. Y., a corporation of New York
Application February 27, 1951, Serial No. 212,983
11 Claims. (Cl. 88—77)

1. An adjustable mounting for supporting from a stem having a ball at the free end thereof a rear vision mirror assembly having a metal backing plate supporting a reflector having a pair of reflective surfaces arranged in vertical angular relation to each other to reflect to an observer images of different intensity when shifted about an axis generally parallel with both of said surfaces, comprising a metal holder arranged in rear of said backing plate and having an opening receiving said stem and a spherical seat surrounding said opening and facing said backing plate and fitting the corresponding side of said ball, the upper edge of said metal holder being arranged below the upper edge of said metal backing plate and the lower edge of said metal holder being arranged above the lower edge of said metal backing plate, a retainer fast to the side of said holder and facing said backing plate



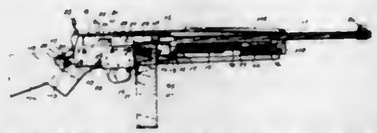
and bearing against the side of said ball opposite said seat, a pivotal connection between said backing plate and holder and permitting movement of said backing plate about a horizontal axis intermediate said upper and lower edges of said metal holder and which axis is generally parallel with both of said reflective surfaces, a stop at the upper part of said holder and engaging the rear face of said backing plate to limit movement of said backing plate and reflector to reflect an image of one intensity and a stop at the lower part of said holder and engaging the rear face of said backing plate to limit movement of said backing plate and reflector to reflect an image of another intensity.

2,640,395
GUN TRAINING MECHANISM
Kendall Clark, Oakwood, Ohio
Application May 9, 1945, Serial No. 592,765
9 Claims. (Cl. 89—41)



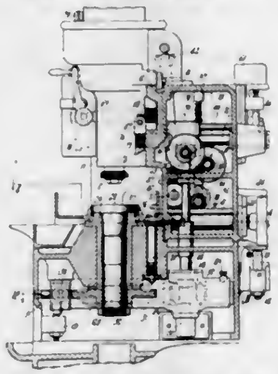
2. In combination, a gun, a gun moving mechanism, a power drive, an epicyclic train having three movable elements, means connecting one of said elements to the power drive, means connecting a second of said elements and said gun moving mechanism, a control means for said power drive, and means connected to and operable only during and in response to every change in position of the control means for moving the third element of the epicyclic train in a direction to provide a positive or negative accelerating kick of the gun moving mechanism in the same direction as the change in speed of the power drive resulting from the change in position of the control means.

2,640,396
AUTOMATIC CARBINE
George F. Grebey, Portsmouth, R. I.
Application January 28, 1947, Serial No. 724,740
6 Claims. (Cl. 89—184)



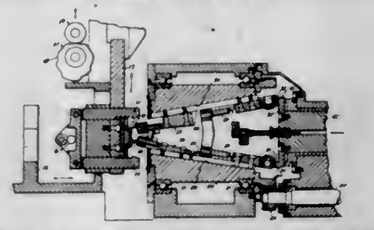
1. In a firearm, a barrel, a receiver fixedly secured to said barrel and having a bolt guide channel in axial line with said barrel including an upper wall and side walls and having a downwardly extending open chamber below said bolt guide channel, a unit removably engaged in said open chamber having a top wall constituting the base of said channel, a bolt engaged in said channel for rectilinear movement between forward closed and rearward open positions, said top wall of said unit having a horizontal rearward guide wall portion in downwardly spaced parallel relation to said upper wall which in cooperation with said upper wall and side walls guides said bolt in its rectilinear closing and opening movement and having a forward downwardly offset wall portion with respect to which said bolt in its forward closed position has transverse downward and upward movement respectively into locking and unlocking positions, said top wall of said unit having a transverse locking abutment portion between its forward and rearward wall portions adapted to be engaged by said bolt in its transversely moved locked position, and said bolt being downwardly removable from said channel through said chamber upon removal of said unit, and an action slide cooperatively connected to said bolt to impart transverse and rectilinear movement thereto.

2,640,397
REVERSING FEED GEAR SHAPING MACHINE
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application August 2, 1945, Serial No. 608,415
9 Claims. (Cl. 90—7)



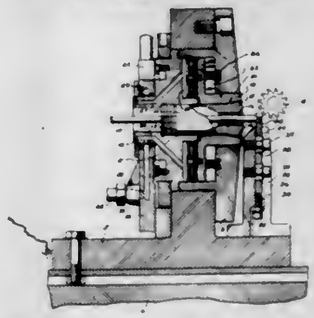
3. In a gear generating machine of the shaper type having cutter and work spindles and a gear shaped planing cutter carried by the cutter spindle, a reversible motor in driving connection with both spindles for rotating them when set into operation, a controller operable to start said motor and means operated by said controller for causing the directions of rotation imparted by the motor to the spindle to be reversed.

2,640,398
MACHINE FOR CUTTING SLANT SIDED ARCUATE GROOVE ELEMENTS
Howard H. Manning, Meadville, Pa.
Application February 15, 1951, Serial No. 211,035
5 Claims. (Cl. 90—11)



1. Apparatus for machining slant sided arcuate grooves extending across work of less width and greater length than the diameter of the grooves, comprising a holder for the work in which the grooves are to be machined, a cutting head having an axis normal to the work, a pair of guide ways in the cutting head respectively inclined to the axis at the angle of one and the other sides of the grooves, cutting tools slidably mounted in each of the guide ways for respectively machining one and the other sides of the grooves, means for effecting relative rotation of the cutting head and work, cam means synchronized with the work for alternately advancing one and then the other of the cutting tools into the work while retracting the other and then the one of the cutting tools clear of the work, and means for feeding the cutting tools along the guide ways toward the work whereby the alternately advanced tools progressively cut into the work at angles determined by the inclination of the guide-ways.

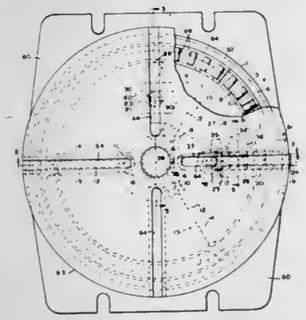
2,640,399
WORK SUPPORT
Walter N. Frank, Dayton, Ohio, assignor to The Apex Machine & Tool Company, Dayton, Ohio, a corporation of Ohio
Application February 5, 1948, Serial No. 6,476
7 Claims. (Cl. 90—18)



1. In a machine comprising a cutter rotatable about a fixed axis, a base movable toward and

from said cutter, a chuck mounted on said base in a fixed position with relation thereto and adapted to support a work piece with one end thereof projecting beyond said chuck toward said cutter, and a supporting element mounted on said base in a fixed position with relation to said chuck and having a cavity to receive said end of said work piece and support the same against deflection, whereby the end of the work piece may be inserted in said cavity simultaneously with its insertion in said chuck, will be held against movement with relation to said work piece and will be moved into engagement with said cutter by the movement of said base toward said cutter.

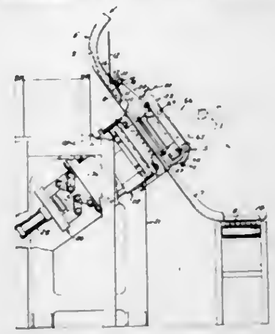
2,640,400
INDEX TABLE
Joseph Verderber, Cleveland, Ohio, assignor to The Cleveland Universal Jig Company, Cleveland, Ohio, a corporation of Ohio
Application May 26, 1949, Serial No. 95,433
14 Claims. (Cl. 90—57)



11. In an indexing table, a base, a rotatable top mounted on said base and provided with an index pin receiving recess, an index pin mounted on said base for vertical reciprocal movement relatively to said recess, said base having radial openings therein, rods mounted in said openings for radially-outward movement relatively to said base for frictionally engaging said top to lock the latter against rotation by a wedging action applied to said top, and means operative to move said index pin into said recess and said rods radially-outwardly in a predetermined sequence, in which the index pin is first moved upwardly and the rods are then moved outwardly.

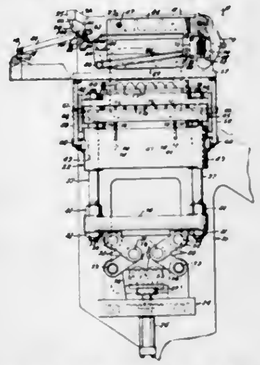
2,640,401
MOLDED PULP CARTON PRESS
Alfred E. Comstock, Palmer, Mass., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application September 9, 1950, Serial No. 183,945
6 Claims. (Cl. 92—68)

1. A finishing press for pressing molded pulp articles adapted to be located in a discharge chute for said articles and comprising, a female die and a male die at least one of which is movable, means for opening and closing said dies, article support members reciprocally mounted for movement into opposite sides of the opening formed between said dies when the same are opened so as to form continuations of said discharge chute, and means operatively connecting said support members with the movable die to remove said article support members from said opening as



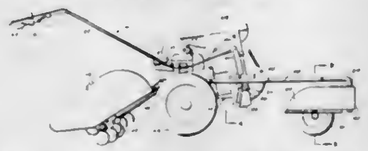
said dies are closed and to move said members into said opening as said dies are opened.

2,640,402
MOLDED PULP CARTON PRESS
Alfred E. Comstock, Palmer, Mass., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application April 7, 1951, Serial No. 219,841
6 Claims. (Cl. 92—68)



1. A finishing press for pressing and fold scoring molded pulp articles and adapted to be located in a conveyor chute for said articles, comprising, mating male and female dies at least one of which is movably supported, means for opening and closing said dies, parallel article side support members reciprocally mounted on opposite sides of the opening between said dies and adapted to form continuations of said conveyor chute, means operatively connecting said support members with a movable die whereby said members are separated upon closure of said dies and are closed to article supporting position upon the opening of said dies, an elongated article scoring member cooperable with said dies for forming a fold score in an article pressed therebetween and independently mounted for movement in an elongated slot opening in said movable die, and actuating means operatively connected with said article scoring member for retaining the same in a retracted article supporting position intermediate said reciprocable side support members when said press is open.

2,640,403
CULTIVATOR DEPTH CONTROL DEVICE
Bertram A. Halverson, Forest Grove, Oreg.
Application April 14, 1950, Serial No. 155,960
5 Claims. (Cl. 97—40)



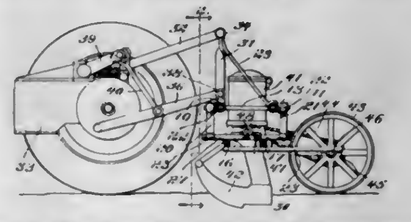
2. In a garden cultivator of the character described, a main frame, a pair of ground-engaging wheels journaled to said main frame, a power unit mounted on said main frame, a handle secured to said main frame and extending upwardly and rearwardly therefrom, a rotary implement located rearwardly of said main frame and connected to said power unit, a longitudinally extending bar member pivotally connected to the rear end of said main frame for pivoting around a transverse axis and extending a substantially distance forwardly from said main frame, a caster unit swivelly connected to the forward end of said bar member and being provided with a ground-engaging wheel, a vertical slotted arcuate bracket secured to the side of said main frame, a pin member carried by said bar member slidably engaged in the slot of said bracket, an upwardly extending spring detent member carried by said bracket and being cammingly engageable by said pin member, said pin member being arranged to lock above the top end of said detent member responsive to forward tilting movement of said main frame around the axis of said first-mentioned ground-engaging wheels, and flexible cable means connected to said detent member and extending to said handle, said flexible cable means being arranged to move said detent member out of locking engagement with said pin member.

2,640,404
PLOW
Keith R. Scholfield, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 10, 1947, Serial No. 785,001
16 Claims. (Cl. 97—47.52)



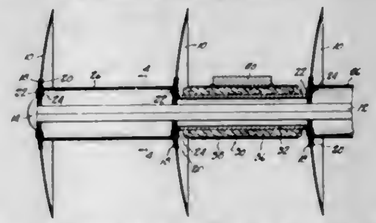
5. The combination with a tractor having a rear drawbar swingable generally vertically and including a transverse section, of an agricultural implement unit including ground working means, an attachment member pivotally connected with said unit for movement relative thereto about a generally transverse axis, said attachment member comprising means embracing the transverse section of said tractor drawbar at laterally spaced apart points so as to hold said unit against movement relative thereto about a generally longitudinally extending axis and means pivotally connecting the attachment member with the drawbar so as to provide for lateral movement of said attachment member relative to the tractor drawbar about a generally upwardly extending axis, an upwardly extending bracket carried by said unit, and a compression-resisting link operatively connected at one end with the upper portion of said bracket and adapted to be connected at its other end with the tractor.

2,640,405
IMPLEMENT HITCH
Gerald Elza Wheeler, Blytheville, Ark.
Application November 19, 1951, Serial No. 257,037
1 Claim. (Cl. 97—47.61)



In a flexible hitch for attaching implements to tractors, the combination which comprises a pair of transversely disposed parallel beams, struts positioned midway of the length of the beams extended upwardly from one of said beams, braces supporting the upper ends of the struts from the other of said beams, said struts and braces providing means for attaching the hitch to a tractor or the like, shafts carried by the beams and spaced from the ends thereof, said shafts being positioned transversely of the beams, inverted V-shaped brackets having hubs positioned with the hubs pivotally mounted on the ends of the shafts carried by the beams and having outwardly diverging arms extended downwardly from the hubs, spaced parallel bars also positioned transversely of the beams, parallel to the shafts, fixedly attached to and connecting the lower ends of the arms of the brackets and spaced parallel implement carrying rods parallel to the beams, positioned below and carried by said bars and positioned with ends thereof extended from both sides of the brackets.

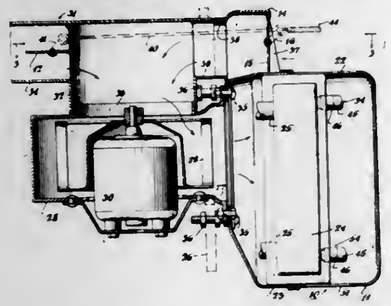
2,640,406
DISK BLADE GANG
Jabez A. Love, Eau Claire, Mich.
Application August 12, 1947, Serial No. 768,168
2 Claims. (Cl. 97—220)



2. A disk blade gang comprising a shaft, a plurality of disk blades mounted on said shaft in spaced relation, thin gage spacer tubes interposed between said blades, sheet metal washers,

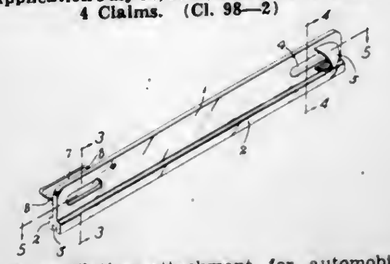
means on said washers for supporting the ends of said tubes, and means for securing said blades, washers and tubes together in a rigid unitary structure, said washers each having a centering aperture fitting said shaft and each engaging the blade adjacent thereto continuously at substantially the diameter of the end of the tube supported thereby, said washers being of larger diameter than said tubes and the outer margin of each washer continuously engaging the adjacent blade outwardly of the tube supported thereby to strengthen and reinforce said blade, said tubes being of substantially uniform wall thickness throughout and having a bore of greater dimension than said shaft located substantially concentric with said shaft.

2,640,407
AUTOMOBILE HEATER
John M. Aufiero, Plandome, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application July 19, 1949, Serial No. 105,552
1 Claim. (Cl. 98—2)



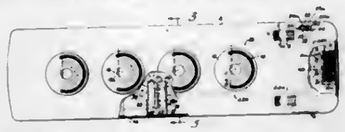
An automobile heater cooperable with the fire wall of an automobile passenger body including in combination a duct system combined with a blower casing in the motor compartment adjacent said fire wall; a rotary blower fan in said casing; a central duct in said duct system adjacent and axial to said blower fan; a heater core in the passenger compartment adjacent said fire wall and radial to said blower fan; a ring extending through an opening in said fire wall connecting said heater core to said casing of said blower fan; a second duct extending through said opening in said fire wall from said passenger compartment and connected to said central duct; an orifice defining an entrance into said duct system on the opposite side of said central duct from said second duct for providing fresh air to said automobile heater; valve means for controlling the introduction of air to said duct system, said casing and said blower fan through said entrance orifice and additional valve means for controlling the introduction of air to said duct system, said casing and said blower fan through said second duct, means attached to the respective valve means to actuate said valve means so that as the one valve closes the other opens and vice versa whereby air may be drawn from said passenger compartment through said second duct and through said blower fan alone or together with air from said entrance orifice and then through said ring to said passenger compartment and said heater core in a direction opposite to its original path of flow through said second duct.

2,640,408
VENTILATING ATTACHMENT FOR AUTOMOBILES
Robert C. Miles, Charlevoix, Mich.
Application July 16, 1951, Serial No. 236,885
4 Claims. (Cl. 98—2)



3. A ventilating attachment for automobile windows comprising, an elongated flat bar of a transparent material adapted to be located in a vertical plane at the upper edge of an automobile side window and between it and the upper side of the window opening in an automobile, said bar when installed in an automobile having front and rear ends and inner and outer sides, and said bar having horizontal slots, one adjacent its front end and one adjacent its rear end generally in horizontal alignment and said bar at its lower edge having a continuous groove into which the upper edge of an automobile window glass is adapted to be received, means at the outer side of said bar at the front thereof partly covering the front portion of the front slot in the bar against which outside air is adapted to engage when the bar installed in an automobile is moved forwardly on driving the automobile in a forward direction, for projecting air outwardly and away from the bar to induce a flow of air from the inner side and within the automobile through the front slot therein, said slot at the rear end of the bar passing air from outside the automobile on which installed, through the slot at its rear end, into said automobile.

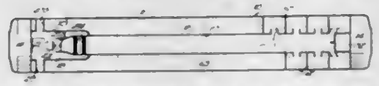
2,640,409
AIR FRESHENING SYSTEM
Edmund E. Hans, Detroit, Mich.
Application June 3, 1949, Serial No. 98,225
3 Claims. (Cl. 98—10)



1. An air freshening system for closed bodies including a plurality of spaced heating units arranged adjacent floor level for heating air withdrawn from within the body, fans in the units for withdrawing the air and discharging it substantially horizontally in a rearward direction in the body whereby this heated air rises at the rear and flows forwardly at a higher elevation, a plurality of separate, spaced air inlet housings mounted in the top of the body, each housing opening directly to the outside and also into the body, fans in the housings for drawing in outside air and discharging it into the body, means in each housing for balancing the tendency for air to flow therethrough in either direction when the fan therein is stationary, so that then air flows in neither direction through the housing, thermostatic

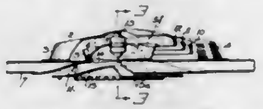
means for increasing the speed of rotation of the housing fans as the temperature of the air in the body increases whereby when said fans are operating at relative high speed a slight positive pressure is maintained in the body, means in the housings for directing incoming air whereby it flows forward in the body adjacent the top thereof and gradually mixes with the forwardly flowing heated air, and a vent housing in the top of the body adjacent the front having outlet passages so arranged therein whereby some air within the body escapes through them when a slight positive pressure is being maintained in said body.

2,640,410
APPARATUS FOR AIR VOLUME CONTROL IN VENTILATING SYSTEMS
George K. Raider and Edmund J. Little, Chicago, Ill., assignors to The Pyle National Company, Chicago, Ill., a corporation of New Jersey
Application December 2, 1949, Serial No. 130,734
7 Claims. (Cl. 98—10)



1. A ventilating system for a railway car or the like comprising a plurality of enclosures to be ventilated disposed along the length of the car, an access aisle therefore, a transition duct being in communication with the access aisle and the atmosphere, a main air duct along the length of the car, means to supply ventilating air from the transition duct to the main air duct under pressure, a plurality of control means for admitting varying volumes of air to each of the enclosures, and valve means responsive to pressure variations located between the main air duct and the access aisle to dump controlled quantities of ventilating air into said access aisle thereby to automatically maintain pressure within the main air duct at a substantially constant value.

2,640,411
AIR INLET HOUSING
Edmund E. Hans, Detroit, Mich.
Application June 2, 1949, Serial No. 96,791
5 Claims. (Cl. 98—14)



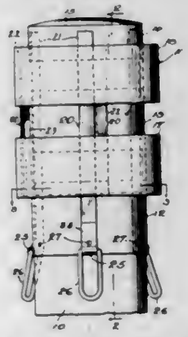
1. An air inlet device including a circular casing having an imperforate top and an annular depending wall, the latter having openings therethrough for the passage of air into the casing, the underside of the depending wall being adapted to be mounted upon a roof, a collar in the casing mounted around an opening formed through the roof, a downwardly and outwardly flared circular open ended deflector mounted on the underside of the roof coaxial with the collar and extending from the top side of the roof at the edge of the opening to the underside thereof, the deflector being of smoothly reverse-curved contour, a fan coaxially mounted in the collar and having blades thereon which are substantially in horizontal alignment with the upper open end of said deflector and in close proximity to the wall of said upper open end, and an imperforate plate mounted in spaced relation beneath the underside of the deflector and fan and extending outwardly beyond the upper open end of the deflector all around the latter, said plate being curved downwardly and outwardly so as to form an air passage between it and said deflector, said fan being adapted to induce a flow of air into the casing and through the collar and to discharge it through said passage in a substantially horizontal plane adjacent the underside of said roof.

2,640,412
ADJUSTABLE GRILLE
Russell P. Sweger, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application February 24, 1949, Serial No. 78,215
2 Claims. (Cl. 98—40)



2. In a grille, the combination of, a frame formed with an annular guide channel defining a circular opening, a pair of arcuate members disposed in said channel on diametrically opposite sides thereof and guided by the walls of the channel for circumferential movement therein, a trunnion rigid with and projecting inwardly from each of said arcuate members and partially across said opening, said trunnions being disposed wholly within said opening, and a disk disposed in said opening and having outwardly opening recesses on diametrically opposite sides thereof receiving said trunnions to permit swinging of the disk about a diameter of said opening.

2,640,413
DRAFT DIVERTER
Buckley R. Reed, Louisville, Ky., assignor to the United States of America as represented by the Secretary of the Army
Application May 21, 1951, Serial No. 227,498
9 Claims. (Cl. 98—84)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a draft diverter for seating atop a chimney, the combination with three tubular diverter inner sections arranged in axially spaced and

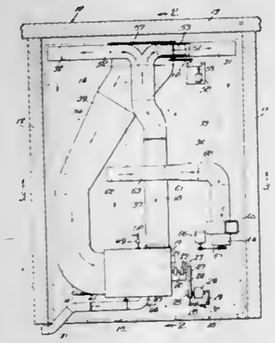
aligned relation, the uppermost inner section having a closed upper end providing a cap, and two axially spaced and aligned tubular diverter outer sections surrounding said inner sections in outwardly spaced concentric relation so as to span the spaces between said inner sections and overlap the adjacent ends thereof; of a plurality of spacers for connecting all of said sections together in said spaced relation aforesaid, said spacers being substantially identical and being substantially Z-shaped in end elevation to provide inner and outer flanges connected by a web, said outer flanges each having a length not greater than that of the combined length of said outer sections and being fixed to the inner peripheries thereof, said inner flanges being substantially longer than said outer flanges and having upper and lower ends extending above and below said outer sections, portions of each inner flange being fixed to the outer peripheries of all of said inner sections, said lower ends of said inner flanges being doubled upon themselves to provide bights, and looped guy anchors swingably seated in said bights.

2,640,414

APPARATUS FOR SMOKING AND CURING FOOD PRODUCTS

Charles B. Jensen, Chicago, Ill., assignor to Atmos Corporation, Chicago, Ill., a corporation of Illinois

Application May 17, 1950, Serial No. 162,511
3 Claims. (Cl. 99—259)



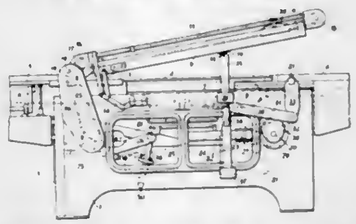
1. Apparatus for smoking food products comprising side and end walls and a roof to define a smokehouse; a pair of distributor ducts for smoke-laden air, extending within the smokehouse, parallel with the side walls; similarly extending collector duct means within the smokehouse; a smoke generator adjacent the smokehouse; a receiver unit for generated smoke and other fluids, on the roof, adjacent one end wall, comprising means to heat said fluids and then to mix them and expel them from the receiver unit; a short and narrow connector duct from the smoke generator to the receiver unit; a long and wide supply header, adapted to receive such expelled materials and to pass them slowly from the receiver unit adjacent one end wall over the roof to the opposite end wall so as to arrest sparks and the like, in such materials, said header being substantially symmetrically connected with the pair of distributor means adjacent the opposite end wall; a return header interconnecting the collector duct means with the receiver unit and long and wide supply header and thereby to complete a circulation system for the circulation of smoke-laden air through the smokehouse and the receiver unit; means to introduce air into said circulation; means to remove fluid from said circulation; and additional spark arrestor means, interposed on the duct between the smoke generator and the receiver unit.

2,640,415

MECHANISM FOR TRANSFORMING ONE FORM OF MOVEMENT INTO ANOTHER, MORE PARTICULARLY FOR USE IN STENCIL PRINTING MACHINES

James Edward Freeborn, Broxbourne, England, assignor to Screen Printing Machinery Limited, London, England

Application May 29, 1951, Serial No. 228,832
In Great Britain May 31, 1950
13 Claims. (Cl. 101—123)



1. Mechanism for converting a cyclical movement of a driving member into an intermittent oscillatory movement of a driven member comprising an actuating element which is reciprocated by the driving member and a selector member which is operatively coupled to the driven member so as to drive the latter, wherein the selector member is provided with a pair of abutment members, each movable between an operative and an inoperative position, one of which members is adapted when in its operative position to be engaged by the actuating element when the latter is travelling in one direction so as to operate the selector member in that direction and the other of which members is adapted when in its operative position to be engaged by the actuating element when the latter is travelling in the reverse direction so as to operate the selector member in that reverse direction, and wherein means are provided operated from the driving member for moving the abutment members between their operative and inoperative positions such that the selector member is operated during selected strokes only of the actuating element.

8. A stencil printing machine comprising a frame structure carrying a printing table, a screen frame carrier movably mounted on said structure for movement towards and away from the printing table, an inking carriage reciprocable along the screen frame carrier, a rotary driving shaft, means operated by the driving shaft for raising and lowering the screen frame carrier and mechanism operated from the shaft for reciprocating the inking carriage along the frame carrier, wherein the said mechanism comprises an actuating element which is reciprocated by the rotation of the driving shaft, a reciprocable selector member and means transmitting the movements of the selector member to the inking carriage, the selector member being provided with a pair of abutment members, each movable between an operative and an inoperative position, one of which members is adapted when

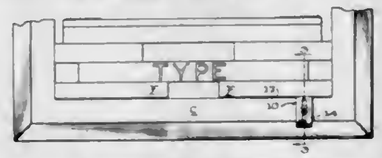
in its operative position to be engaged by the actuating element when the latter is travelling in one direction so as to operate the selector member in that direction and the other of which members is adapted when in its operative position to be engaged by the actuating element when the latter is travelling in the reverse direction so as to operate the selector member in that reverse direction and means being provided operated from the driving shaft for moving the abutment members between their operative and inoperative positions such that the selector member is operated during selected strokes only of the actuating element, whereby the inking carriage is caused to make single printing strokes in alternate directions during the times when the screen frame carrier is in its printing position adjacent the table.

2,640,416

REGISTRY AND SIDE GUIDE MARKER

Aaron Marsden, Brooklyn, N. Y.

Application January 24, 1950, Serial No. 140,306
2 Claims. (Cl. 101—373)



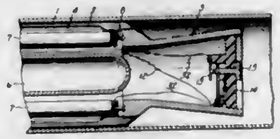
1. A type measure for printing registry and side guide marks on printed sheets comprising an angle shaped bar having a leg adapted to be clamped with type in a chase, the other leg of said bar being bent out of the plane of said first leg and having a slot formed therein extending angularly with respect to said first leg, a screw including a printing surface and being non-rotatably and slidably mounted in said slot, and means mounted on said screw for securing it to said bar in any position along said slot.

2,640,417

IGNITION SAFETY DEVICE FOR INDUCTION FIRED ROCKETS

Carold F. Bjork, Luke, Md., and Michael F. Bondy, Watertown, Mass., assignors to the United States of America as represented by the Secretary of War

Application December 18, 1946, Serial No. 717,038
1 Claim. (Cl. 102—49)



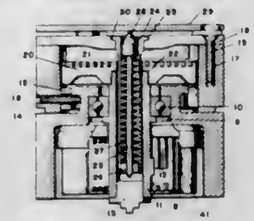
In an induction-fired rocket, a tubular casing having a rearwardly-directed Venturi nozzle, a propellent charge in said casing, an induction coil in said casing, an electrically-initiable fuze in said casing in firing relation with said charge, a dielectric plug removably fitting said nozzle and closing the same, a switch mounted on said plug and comprising first and second opposed contacts and an arm movable selectively to alternatively engage either of said contacts, a first circuit including said fuze, first contact and switch arm, in series, a second circuit including said induction coil, fuze, second contact and switch arm in series, and means carried by said plug and normally holding said arm and first contact in engagement to close said first circuit, said means being manually operable from the exterior of said rocket to effect engagement between said arm and second contact whereby said first circuit is opened and said second circuit is closed to connect said fuze and coil in series, said plug and switch being blown out in response to initiation of said charge.

2,640,418

DETONATING MECHANISM FOR TIME FUSES

Millard R. Thomson, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.

Application December 21, 1949, Serial No. 134,205
2 Claims. (Cl. 102—84)



1. A time fuse detonating mechanism comprising a cylindrical body portion having a restricted upper annular flange, a bearing mounted in said upper flange, a hollow cylindrical arbor mounted in said bearing for rotation, a mainspring and clockwork mechanism attached to said arbor for controlling said rotation, a spirally grooved disc carried by said arbor above said body portion and rotating therewith, a collar mounted on said body portion and partially enclosing said disc, a cover plate for said collar, a cylindrical tube supported by said collar and extending downward into said cylindrical arbor, a spring projected firing pin mounted in said cylindrical tube, a second cover plate spaced from said first mentioned cover plate and directly above said first mentioned cover plate, a firing pin contacting lever pivotally mounted between said plates for swinging movement in a horizontal plane, a second lever pivotally mounted for swinging movement in a vertical plane, a projection on said lever engaging the end of said firing pin contacting lever to prevent the swinging motion of said firing pin contacting lever, a finger on the end farthest from the projection engaging the spirally grooved disc, the upward pressure from the spring on the firing pin being transmitted to the firing pin contacting lever and through the projection to the second lever, the force of the spring tending to disengage the levers.

2,640,419

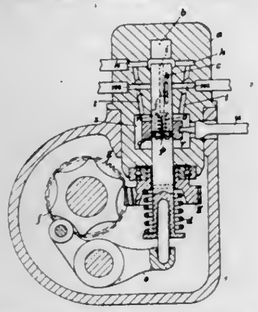
LIQUID FUEL INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES

Fraser Mackie Evans, Acton, London, and Wilfrid Edward Walter Nicolls, Pinner, England, assignors to C. A. V. Limited, London, England

Application May 15, 1951, Serial No. 226,475
In Great Britain May 23, 1950
5 Claims. (Cl. 103—2)

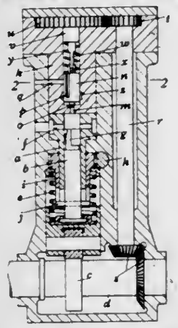
1. A liquid fuel injection pump comprising, in combination, a body, a pump plunger movable in a bore in the body, means for continuously reciprocating the plunger, means for continuously rotating the plunger about its longitudinal axis,

passage means in the plunger communicating with a lateral opening therein, a plurality of discharge ports in the bore circumferentially disposed about the plunger so that communication is established by each in turn of said ports with the plunger passage means, spill passage means for permitting escape of a proportion of the fuel entrapped by the plunger at each stroke, a



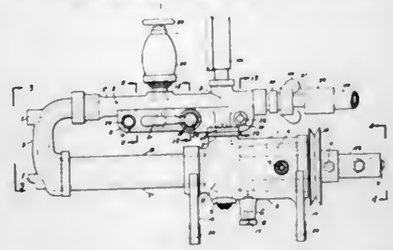
spring loaded valve controlling the spill flow in said passage means, and adjustable means for determining the instant in the delivery stroke of the plunger at which spill can occur, the arrangement being such that the aforesaid determination of the instant of spill flow is effected independently of the relation between the rotational and longitudinal positions of the pump plunger.

2,640,420
LIQUID FUEL INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES
Alexander Muraszew, London, England, assignor to C. A. V. Limited, London, England
Application June 15, 1951, Serial No. 231,807
In Great Britain July 25, 1950
4 Claims. (Cl. 103—2)



1. A liquid fuel injection pump for a multi-cylinder engine comprising, in combination, a single plunger reciprocable in a containing barrel, means for reciprocating the plunger, means associated with the plunger for controlling the volume of fuel delivered at each discharge stroke, a single spring-loaded and longitudinally reciprocable discharge valve controlling an outlet from the pump barrel to a plurality of delivery passages, means for rotating said discharge valve about its longitudinal axis, and means associated with said discharge valve for distributing fuel in turn to said delivery passages as determined by the rotation of the valve.

2,640,421
MANIFOLD HIGH-PRESSURE PUMP
Peter H. Lindberg, Detroit, Mich.
Application August 18, 1948, Serial No. 44,931
2 Claims. (Cl. 103—3)

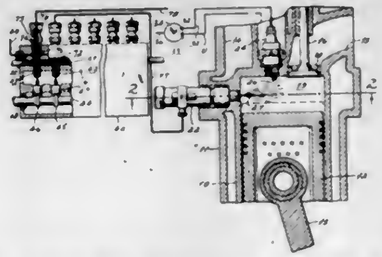


1. A device for pumping fluids into and from storage receptacles including a head casing, a pump having an intake and a discharge, a fluid intake cavity in said head casing arranged in direct communication with said pump intake, a fluid intake port in said head casing opening into said intake cavity, a fluid discharge passage directly connected to said pump discharge, a discharge orifice at the end of said discharge passage, a spring valve in said discharge passage, a fluid inlet member comprising a first and a second chamber, a single passage directly interconnecting said chambers, a cut-off valve in said single passage, a port in said first chamber arranged in direct communication with said head casing intake port, a port in said second chamber, a second port in said first chamber adapted to be closed during pumping of fluid into said second chamber through the port therein and to be connected to a source of supply during pumping of fluid from said second chamber through the port therein to a storage receptacle connected thereto, a pressure-responsive valve arranged in communication with said fluid discharge passage, a second port in said second chamber, and means connecting said last-mentioned second port and said pressure-responsive valve to provide for flow of fluid from said discharge passage through said pressure-responsive valve into said second chamber to recirculate through said pump when said cut-off valve is open and the fluid pressure in said discharge passage exceeds a predetermined value, said pressure-responsive valve being further arranged to open a passage for the flow of fluid from said discharge passage into said second chamber and therefrom through said first-mentioned port therein to supply fluid into a storage receptacle connected to said first-mentioned port in said second chamber when said cut-off and spring valves are closed and said second port in said first member is connected to a fluid supply.

2,640,422.
FUEL PUMP FOR INTERNAL-COMBUSTION ENGINES
Jay B. Malin, Whittier, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Original application December 3, 1946, Serial No. 713,791. Divided and this application November 6, 1947, Serial No. 784,462
2 Claims. (Cl. 103—4)

2. Fuel feeding mechanism for a single cylinder of an internal combustion engine, comprising a plurality of cooperative pump cylinders, each having a separate discharge chamber pro-

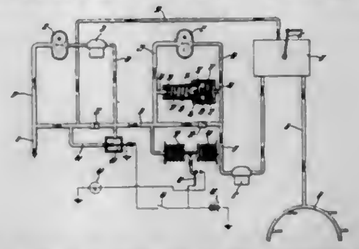
vided with an offtake, a separate fuel inlet and a separate by-pass port, separate pump plungers for each of said pump cylinders, each pump plunger being reciprocatingly and rotatively mounted in its respective cylinder, means for reciprocating said plungers in unison on their pumping strokes to provide the same injection advance, a common load control means for rotating said plungers in unison throughout their range of rotative movement, a helix on each plunger for regulating the amount of fuel delivered by each plunger on its pumping stroke to its respective discharge chamber and for controlling communication of the fuel inlet with the by-pass port of its pump cylinder through a cooperating fuel channel to terminate delivery on each cycle, the said helices having substantially the same slope and length with the helix on one plunger being offset angularly from the helix on another plunger by an angular ex-



tent substantially equal to that of a helix so as to become operative in succession as said common load control means is actuated to rotate said plungers, the fuel channel of said one plunger being of expanded angular extent substantially equivalent to the angular extent of a helix relative to the angular extent of the fuel channel of another plunger to maintain the fuel inlet controlled by said one plunger in communication with its by-pass port during the range of simultaneous rotative movement of both plungers wherein the helix of said other plunger is shifted from zero to maximum discharge positions, the helix of said one plunger then coming into play on further rotative movement of said plungers to regulate and vary the discharge from its pump cylinder on each cycle while the discharge from said other pump cylinder remains at maximum amount.

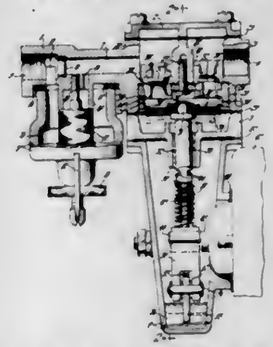
2,640,423
FUEL SYSTEM
Floyd J. Boyer, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 18, 1950, Serial No. 139,216
13 Claims. (Cl. 103—11)

1. In a system for advancing fuel from a reservoir to a user, a line through which fuel may be conducted from the reservoir to the user, two pumps in series in the line for advancing fuel through the line from the reservoir to the user, a line through which fuel may be conducted around each of the pumps from its inlet to its outlet, a valve in each of the last specified lines which inhibits flow of fuel therethrough from the outlet to the inlet of the pump around which the line may conduct fuel, means for indicating when the pressure on the downstream side exceeds the pressure on the upstream side of the downstreammost pump by a preselected value, a line through which fuel may be conducted around the downstream-most pump from its outlet to its inlet, a valve in the last specified line which permits flow of fuel therethrough from the outlet to the inlet of the downstreammost pump at a rate which varies with the difference between the capacities of the downstreammost and upstreammost pumps until the difference exceeds a preselected value so that the indicating means indicates the operativeness



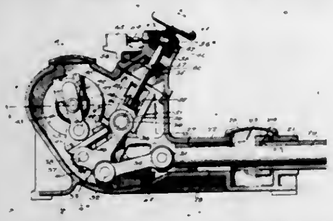
of the upstreammost pump, a line through which fuel may be conducted around the upstreammost pump from its outlet to its inlet, and a valve in the line which may be opened to permit fuel to flow from the outlet to the inlet of the upstreammost pump so that the indicating means will indicate the operativeness of the downstreammost pump.

2,640,424
FUEL PUMP
Abraham M. Babitch, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 10, 1948, Serial No. 1,511
16 Claims. (Cl. 103—38)



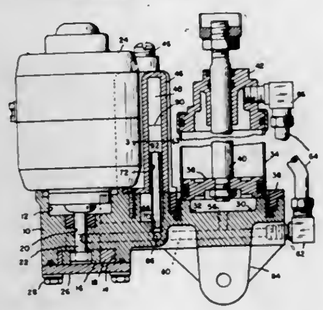
1. In a fuel pump, a pumping chamber in which the pressure varies, a flexible diaphragm forming one wall of said pumping chamber affected by said pressure, a low starting torque electric rotary driving motor having an eccentric for actuating said diaphragm and a mechanism operatively connecting said diaphragm and said eccentric for imparting a variable stroke to said diaphragm determined by the pressure on the diaphragm, said mechanism comprising relatively movable members, one forming a guide member for the other and linearly movable with respect to the other, said members being attached respectively to said diaphragm and said eccentric and a spring positioned between said members for yieldingly urging one of said members to an extreme position on the other of said members.

2,640,425
STROKE ADJUSTMENT DEVICE
Royal Bartlett Saalfrank, Gulfport, Fla., assignor to Milton Roy Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 3, 1950, Serial No. 188,147
9 Claims. (Cl. 103—38)



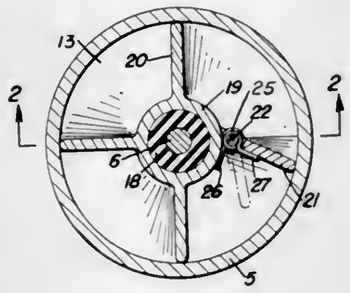
1. In a stroke control pump mechanism, a reciprocable pump plunger, a connecting rod pivotally connected at one end to the plunger, an adjustment block pivotally connected to the opposite end of the connecting rod, an adjustment pivot pivoting the adjustment rocker to one side of the axis of the plunger, an adjustment block swingable back and forth, a fixed pivot for the adjustment block, a slidable pivot slidable in the adjustment block pivotally connecting the adjustment rocker with the adjustment block and adjustable along the line of centers between the sliding pivot and the fixed pivot of the adjustment block toward and away from said fixed pivot, means for swinging the adjustment block back and forth equally on opposite sides of the line of centers between the adjustment pivot and the fixed pivot of the adjustment block, the slidable pivot at the end of the stroke always being substantially on the same line transverse to the plunger axis for all adjustments and means for adjusting the adjustment pivot along the line of centers between the adjustment pivot and the fixed pivot of the adjustment block toward and away from the adjustment block.

2,640,426
POWER UNIT OF THE PRESSURE FLUID TYPE
Stewart B. McLeod, Dearborn, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application April 16, 1951, Serial No. 221,272
7 Claims. (Cl. 103—41)



1. A power unit comprising a generally flat body having a pump recess at one side adjacent one end thereof, a motor seat at the other side of said body in alignment with said pump recess, a cylinder seat at the same side of said body as said motor seat, a reservoir cavity in said body open at the side thereof provided with said seats, said reservoir cavity extending generally transversely of said body intermediate said seats, a closure for said reservoir cavity cooperating therewith to form an enlarged reservoir, said closure being in the form of a cup having a cross-section similar to the cross-section of said cavity and extending outwardly of said body intermediate said seats, and passages including passages in said body connecting said pump recess, said reservoir cavity, and said cylinder seat.

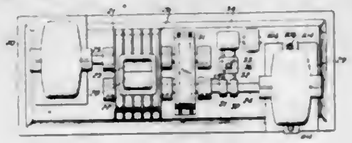
2,640,427
TURBINE PUMP
Victor J. Domer, Okeechobee, Fla.
Application June 7, 1950, Serial No. 166,633
4 Claims. (Cl. 103—90)



1. In a turbine pump, the combination with a well casing having a rotary shaft therein with an impeller secured to the shaft within the casing, of a bearing in the casing in which the shaft is journaled including a rigid sleeve, rigid radial fins on the sleeve engaging the casing and centering the sleeve in the casing, a locking fin in the casing pivoted to the sleeve and swingable into wedging engagement with the casing to hold the sleeve and radial fins stationary in the casing, and a torsion spring mounted on the locking fin and reacting against said sleeve and locking fin to swing said locking fin into engagement with the casing.

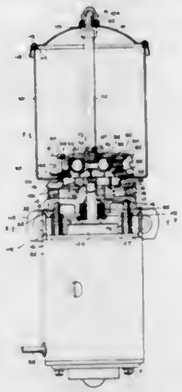
2,640,428
DRIVE FOR FLUID HANDLING DEVICES OF THE ROTARY, POSITIVE DISPLACEMENT TYPE
Carl R. Houghton, Connersville, Ind., assignor, by mesne assignments, to Dresser Industries, Inc., a corporation of Pennsylvania
Application May 3, 1949, Serial No. 91,154
15 Claims. (Cl. 103—118)

1. A drive for a fluid handling device of the rotary, positive displacement type having a pair of rotors mounted on parallel shafts, comprising a pair of synchronous motors connected to the rotor shafts, timing gears mounted on said shafts adapted to be engaged for maintaining the shafts and their rotors in proper rotative relation whenever said motors are not operating in synchronism, and means for disengaging said gears so that said shafts may be driven by said motors



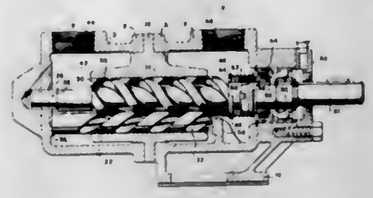
without subjecting the latter to the load otherwise imposed by engagement of said gears.

2,640,429
HYDRAULIC POWER UNIT
Stewart B. McLeod, Dearborn, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application March 21, 1949, Serial No. 82,529
2 Claims. (Cl. 103—126)



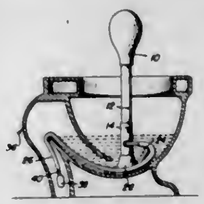
1. In a hydraulic power unit, a pump housing block having a circular pump recess in its upper surface, an internally toothed pump gear having a cylindrical exterior rotatable in said recess, an externally toothed pump gear in said recess and meshed with said internally toothed gear, said pump gears extending upwardly above the upper surface of said block, a fluid supply reservoir having a bottom wall supported directly upon the upper surface of said block, said bottom wall having a circular opening therein in registration with said circular recess and forming an upward extension of said recess, the upper surface of the bottom wall of said reservoir being coplanar with the upper surface of said pump gears, a valve body in said reservoir having a flat under-surface resting upon the bottom wall of said reservoir surrounding the opening therein, the under-surface of said valve body constituting a closure for the upper end of the pump recess, fluid passages in said valve body terminating in ports at the under-surface of said body communicating with said pump recess, valves in said body controlling the flow of fluid to and from said reservoir, and fastening means assembling said pump housing block, reservoir, and valve body comprising fastening elements extending through said valve body and the bottom wall of said reservoir laterally outwardly from said pump recess into said pump housing block.

2,640,430
SCREW PUMP OR MOTOR
Morgan B. Sennet, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey
Application September 24, 1949, Serial No. 117,535
1 Claim. (Cl. 103—128)



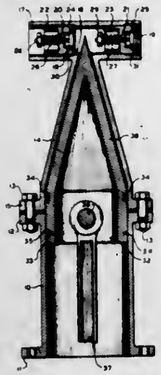
A screw device of the type described comprising a housing element provided with a plurality of intersecting bores, intermeshing screws mounted within said bores, a pair of casing elements separate from said housing element and having walls spaced from the housing element to provide inlet and outlet chambers for free entrance and exit of fluid at the ends of said bores, said housing element being provided with an external flange secured between said casing elements, said flange being located approximately at the central portion of said housing element, a bearing mounted in one of said casing elements for one of said screws, and a seal for isolating said bearing from the adjacent one of said chambers, one of said casing elements being provided with a lug to limit endwise movement of at least one of said screws in a direction towards the high pressure end thereof, and the other of said casing elements providing a surface receiving end thrust of at least one of said screws.

2,640,431
PUMP
Earl S. Neal, San Mateo, Calif.
Application May 12, 1950, Serial No. 161,527
1 Claim. (Cl. 103—148)



A pump comprising a vertical sleeve having diametrically opposite ports therein, conduits communicating with the ports, a vacuum cup on the lower end of said sleeve, a barrel rotatably and slidably mounted in the sleeve and operable to raised and lowered positions, said barrel when in lowered position closing the ports and when in raised position opening said ports, said barrel having a port therein selectively registerable with the diametrically opposite ports when said barrel is in lowered position, a collapsible bulb operatively connected to the barrel, and coacting means on the sleeve and barrel for controlling the rotary and sliding movements of said barrel.

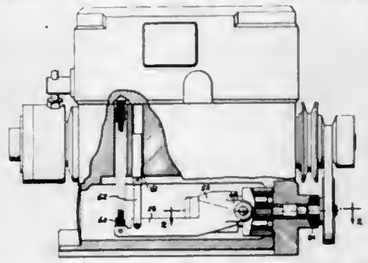
2,640,432
EXPANSIBLE CHAMBER DEVICE
Homer T. Chappelle, Mineola, Tex.
Application September 8, 1949, Serial No. 114,507
1 Claim. (Cl. 103—153)



An expansible chamber device for use with fluid comprising a cylinder having a cylindrical portion and a frusto-conical portion at one end with an opening through the small end of the frusto-conical portion, a cylinder head at the small end of the frusto-conical portion with a passage having its axis extending therethrough transversely of the axis of said cylinder and communicating with said cylinder through said opening, a piston having a cylindrical portion of complemental shape to the cylindrical portion of the cylinder and having a conical head portion of substantially complemental shape of the frusto-conical portion of the cylinder and free of any projections beyond the conical surface thereof, the area of the conical surface portion of the piston being approximately 3.86 times the cross sectional area of the cylindrical portion, said piston being mounted in said cylinder for reciprocating motion whereby when the piston reciprocates in the cylinder the apex of the conical head portion extends through said opening into said passage of said cylinder head at one extremity of movement for forcing fluid through said opening into said passage, inlet and exhaust valves positioned in the passage of said cylinder head on opposite sides of the opening in said frusto-conical portion for controlling ingress and egress of fluid into said cylinder, said valves being threadedly mounted therein with the axes of the valves coinciding with the axis of said transversely extending passage of said cylinder head and the apex of said piston at the end of the compression stroke adapted to project into said passage and intersect the valve's axis whereby the clearance is reduced to a minimum.

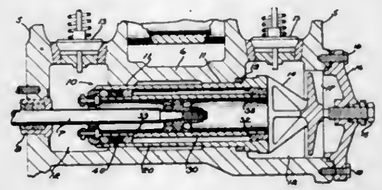
2,640,433
SWASH PLATE PUMP
Max A. Mathys, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application June 26, 1947, Serial No. 757,249
7 Claims. (Cl. 103—162)

1. A variable delivery swash plate pump comprising, in combination, a pump manifold having a stationary radial valve face, a drive shaft journaled within a bore in said manifold, a cylinder body keyed to said shaft for rotation therewith and mounted adjacent said stationary valve face, said body having a plurality of equally spaced cylindrical bores arranged in an annular pattern concentric with the axis of said shaft and parallel thereto, a rotatable radial valve face defined by the end of said cylinder body adjacent said manifold and adapted for bearing engagement with said stationary valve face, reciprocable plungers slidably housed within the cylindrical bores of said cylinder body with their ends projecting axially from the end of the latter away from said valve faces, a rockable swash plate with its face disposed in abutment with the projecting ends of said plungers to vary their stroke and thus to vary the pump discharge pressure, said swash plate having a longitudinal extension



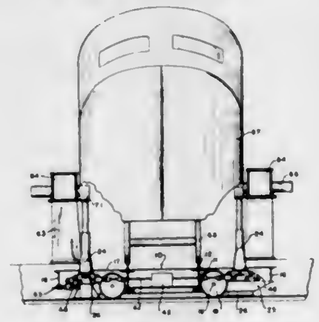
unitary therewith, a swivel frame, a guide sleeve carried by said swivel frame and adapted to rotationally house said longitudinal extension, a pair of ears projecting from said swivel frame, trunnions adapted to pivotally engage said ears and located on an axis about which the moments due to the plunger reactive forces acting upon said swash plate cancel out, said axis being disposed in transverse but non-intersecting relation with the axis of said drive shaft, an elongated arm unitary with said swivel frame for rendering a relatively small control force effective to rock said swash plate, the length of said arm and the balance of the moments of said reaction forces on said swash plate permitting accurate regulation of the pump discharge pressure.

2,640,434
CYLINDER LINER AND SLEEVE ASSEMBLY FOR RECIPROCATING PUMPS
Arthur L. Leman, Houston, Tex.
Application June 2, 1949, Serial No. 96,725
9 Claims. (Cl. 103—216)



1. A pump cylinder liner assembly comprising a cylindrical shell having near the outer end an internal in-facing annular shoulder and being internally threaded at the inner end, a hardened metal sleeve receivable coaxially in the shell and having adjacent the outer end an external out-facing annular shoulder near the inner end an opposite in-facing annular shoulder, a metal bushing interposable between the sleeve and shell in abuttive relation between the out-facing sleeve shoulder and the in-facing shell shoulder, an annular packing and spacing element receivable between the sleeve and shell in abuttive relation to the in-facing sleeve shoulder, an annular gland externally threaded to enter the threaded inner end of the shell and into compressive engagement with the packing element, and a plurality of screw elements carried by the gland for axial thrusting engagement with the adjacent end of the sleeve thereby to intersecure the shell and sleeve in metal-to-metal axial contact at both ends independently of the packing and with the sleeve under compression and the shell under tension axially.

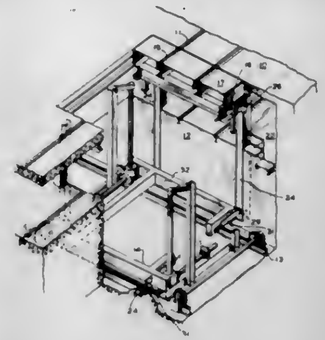
2,640,435
SIDE RELEASE TABLE FOR SERVICING RAILROAD VEHICLES AND THE LIKE
Clyde C. Griffiths, Harvey, Ill., assignor to Whiting Corporation, a corporation of Illinois
Application April 13, 1950, Serial No. 155,659
8 Claims. (Cl. 104—32)



1. Apparatus for use in servicing railway vehicles and the like, as by removal of trucks and axle assemblies, and adapted for use in a structure having vehicle tracks extending along a floor, a shallow transverse pit intersecting the tracks, and body support means near the point of intersection of the tracks and pit for a vehicle comprising two pairs of wheels movable on rails extending longitudinally along the floor of a pit, a table mounted on the wheels and supporting laterally disposed parallel rail sections for transverse movement with the table into alignment with one of the tracks, a pair of jacks carried by the table and extending upwardly therefrom for lifting engagement with a vehicle body, and means on the table for actuating said jacks.

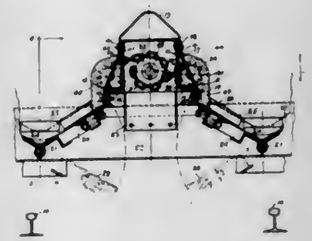
2,640,436
DROP TABLE APPARATUS
Louis D. Holmes, Blue Island, and Robert S. Hammond, Winnetka, Ill., assignors to Whiting Corporation, a corporation of Illinois
Application October 7, 1950, Serial No. 189,004
14 Claims. (Cl. 104—32)

1. In an apparatus for servicing running gear of railway vehicles and the like of the type utilizing a drop table movable along the bottom of a pit extending transversely across railway tracks and spanned by tops including a release track top supported on four depending posts reciprocably mounted in the pit wall, said drop table having vertically movable lifting beams for raising and lowering the tops, the improvement which comprises means for connecting the lifting beams and the posts, said means comprising arm means carried by the lifting beams and an arm engaging means on an adjacent post disposed for registry with the arm when the lifting beam



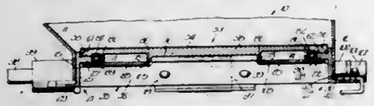
is in its lowered position, one of said last mentioned means being retractable for selectively preventing lifting engagement of the arm member and the lug member.

2,640,437
DOOR CLOSING MEANS FOR LOAD DISCHARGING CARS
George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application March 9, 1949, Serial No. 80,474
5 Claims. (Cl. 105—251)



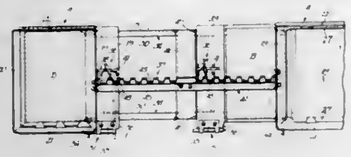
1. In a load discharging car of the character described including a center sill having a vertical web and an outstanding marginal flange, and a discharge door extending from its hinge axis towards said sill; an operating shaft mounted outwardly beyond the door and beyond the web of the center sill, a flexible connection extending from the shaft to the door, said connection extending through the center sill and transversely above the flange and leading downwardly adjacent thereto to connect with the door, an idler pulley engaging the connection for deflecting the same from a straight line path, and bearing means mounted on said center sill for supporting said idler pulley so that its pivotal axis is in a plane parallel to said vertical web and the pulley is positioned in the space between said flange and said vertical web in juxtaposition to both.

2,640,438
OUTLET ASSEMBLY FOR HOPPER TYPE RAILWAY CARS
George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application August 24, 1949, Serial No. 112,032
10 Claims. (Cl. 105—282)



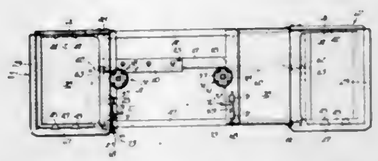
1. In a railway car hopper construction, in combination, a four sided hopper defining a discharge opening and comprising floor sections extending downwardly for directing lading from the car body to said opening, a gate slidably mounted beneath one of the sides of said hopper for closing said opening, the three remaining sides of said hopper forming a skirt and extending uninterruptedly below said gate, and shelves extending laterally inwardly from said three sides in supporting relation to said gate, said three sides of said hopper defining an integral weatherproof enclosure around the corresponding three sides of said gate having no upwardly opening joint likely to permit entrance of water and contamination of the lading in the hopper.

2,640,439
HOPPER CLOSURE FOR HOPPER TYPE RAILWAY CARS
George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application November 18, 1949, Serial No. 128,208
2 Claims. (Cl. 105—282)



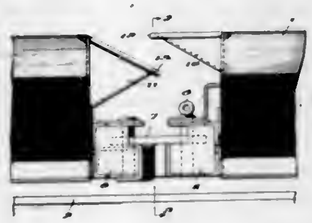
1. In combination, a hopper for a railway car having inclined sides defining a hopper opening spaced inwardly from the side wall of the car, a frame around said opening, a gate carried by said frame for closing said opening, said gate being horizontally slidable from and to closed position on said frame underneath one of the inclined sides of said hopper, a flange stationarily mounted above the path of said gate at an obtuse angle to said gate away from said side wall and carrying a plurality of upstanding spaced fulcrums, and an extension from said gate providing a plurality of horizontally extending pockets at the level of said fulcrums on the side thereof away from said car side wall and juxtaposed to said fulcrums and movable therealong together with said gate in either direction by insertion of a bar horizontally between a pair of fulcrums and into the adjacent pocket and horizontal pinching movement of said bar, the bottoms of said pockets limiting the extent that said bar can be inserted past said fulcrums.

2,640,440
CLOSURE FOR HOPPER OF HOPPER TYPE RAILWAY CARS
George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application November 18, 1949, Serial No. 128,210
2 Claims. (Cl. 105—305)



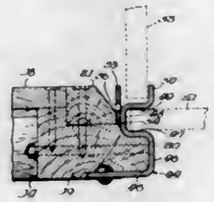
1. In combination, a hopper for a railway car having inclined sides defining a hopper opening spaced inwardly from a side wall of the car, a frame around said opening, a gate carried by said frame for closing said opening, said gate being horizontally slidable from and to closed position on said frame underneath one of the inclined sides of said hopper, a pinion centrally mounted along one end of and below said gate for rotation about a vertical axis, a rack carried by said frame below said gate and extending endwise therefrom and engaged by said pinion, and a head fastened to and rotatable coaxially with said pinion and disposed above said gate and having a pair of U-shaped angularly related slots therein for receiving in either of them a horizontally positioned removable operating bar insertable from one side of the car to rotate said pinion in engagement with said rack to move said gate from and to the closed position by successively positioning said bar in said slots and swinging the same through an arc.

2,640,441
OVERLAPPING CAR END FOR MINE CARS
Robert E. Jones, Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del., a corporation of Delaware
Application May 11, 1948, Serial No. 26,413
10 Claims. (Cl. 105—364)



1. In a car adapted to be connected in a train of cars for conveying loose lading, a car body comprising side and end walls, a hopper extension carried by each of the end walls externally thereof and extending lengthwise of the car each hopper extension having upright opposite sides and a downwardly inclined chute into the car body, the chute on one end hopper extension being spaced vertically out of longitudinal alignment with the opposite end chute in position for overlapping relation with a complementary chute of a like car coupled therewith, each said hopper extension extending transversely of the body less than the width of the end thereof.

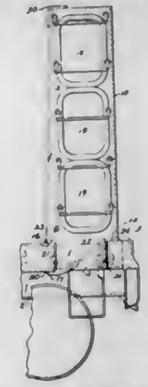
2,640,442
LOAD BRACING MEANS
Iver Johnsen, Jr., Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application February 21, 1948, Serial No. 9,987
17 Claims. (Cl. 105—369)



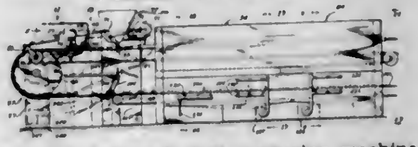
1. A load brace arrangement for a railway box car having a door opening in respectively opposite sides comprising pairs of posts located respectively at opposite sides of each of said door openings and all extending substantially full height of the car sides, each of said posts having a flange parallel to an adjacent side wall of the car and a flange at an angle to the first-named flange, said last-named flange of each post having an offset defining an open channel-shaped vertically disposed trackway intermediate the width of the flange and in opposed relation at opposite sides of the respective door openings for the reception of removable partition panels and each having a terminal flange at right angles to the trackways, a separate member defining in cooperation with said offset having an offset defining an open channel-shaped vertically disposed trackway on each post at right angles to the first-named trackway and in opposed relation at opposite sides of the car upon each side of the door openings for the reception of removable partition panels, and an opening in one side of said first-named trackway and the terminal flange on at least one post on each side of the car for insertion of said partition panels into said trackways to form partitions across the respective door openings or across the width of the car at each side of the door openings and thereby brace lading within said car.

2,640,443
RAILWAY VEHICLE FRAMING
Albert M. Schieler, St. Louis, and Edwin C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application September 29, 1950, Serial No. 187,372
27 Claims. (Cl. 105—404)

1. In a railway vehicle framing, underframe main members extending transversely of the framing and spaced apart longitudinally of the framing, an upright end post having a main body portion of greater extent longitudinally of the underframe than the distance between said members, the post having an inwardly offset lower portion of less extent, there being shoulders extending inwardly from the front and rear of the post and resting on said members, said post lower portion projecting between said members, and having elements opposing the upright sides of said members and cooperating with said shoulders to prevent tilting of the post in a direction longitudinally of the framing.



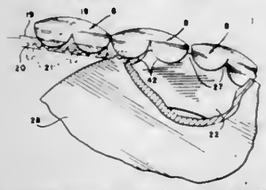
2,640,444
AUTOMATIC BAKING MACHINE
George Reget, St. Albans, N. Y.
Application August 17, 1946, Serial No. 691,342
6 Claims. (Cl. 107—8)



2. In an automatic tray conveying machine, including a multiplicity of trays, each tray having a top and two side apron portions depending therefrom, end plates secured to the said top and the said side apron portions and provided with a toothed bottom formation adapted to be grabbed for initial feeding of the said trays, and guide pins secured adjacent to the top edges of the said end plates for transference of the said trays from the said initial feeding to a conveyor for further conveyance thereof; channel trackway means supporting the said trays in inverted position, tray lifting means provided with pin means engaging the root portions of the said toothed bottom formation simultaneously lifting and positioning the said trays face upwardly, driving sprocket means having its vertical axis in the same geometric plane with that of the said tray lifting means, driven sprocket means, endless conveyor means trained to operate on the said driving sprocket means and on the said driven sprocket means for receiving the said trays from the said tray lifting means and conveying the said trays by virtue of the said guide pins resting thereupon, curved trackage means connected to one terminal portion of the said channel trackway means and enveloping substantially the outer portion of the said tray lifting means confining the said trays in their orbit of travel toward being positioned face upwardly, chain transmission means interconnecting the said tray lifting means and the said endless conveyor means, ratchet means secured to the said driving sprocket means, linkage means provided with pawl means engaging the said ratchet means, reciprocating disc means connected to the said linkage means imparting intermittent

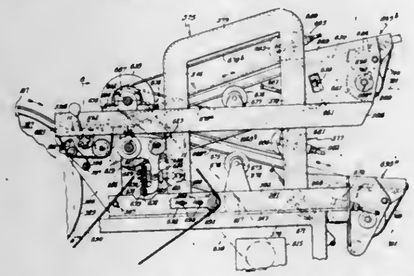
motion thereto, a prime mover connected to drive the said reciprocating disc means, and semi-circular end trackage means secured to the other terminal portion of the said channel trackway means for inverting and returning the said trays to the said channel trackway means to repeat the cyclical operation of the said trays.

2,640,445
CAKE BAKING PAN MEANS AND DUMPING MECHANISM THEREFOR
George Reget, Great Neck, N. Y.
Application August 31, 1951, Serial No. 244,623
14 Claims. (Cl. 107—8)



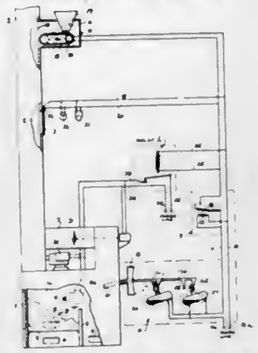
4. In combination, driving gear-like means provided with a multiplicity of spaced toothed formations defining arcuate roots therebetween, and a cake forming and baking pan for producing cakes of definite volumetric configuration, comprising a body section including a top portion merging with depending flange portions on the sides of the said top portion and terminating in substantially right angularly formed horizontal saddle portions, a multiplicity of cake forming and baking concavities in the said top portion, a pair of end portions configurative with the said depending flange portions but extending below the said saddle portions thereof, each of said end portions being in the form of a pair of lobe portions defining intermediately thereof a crotch portion engageable by propelling means, the said end portions extending beyond the said top portion and being of arcuate formation to protect cakes subsequently to their formation and baking during the inverting period of travel of the said forming and baking pan preparatory to dumping the completed cakes, the said arcuate roots and the said lobe portions being meshably related.

2,640,446
CANDYMAKING APPARATUS
Robert F. Morrison, Oak Park, Ill., assignor to Mars, Incorporated, Chicago, Ill., a corporation of Delaware
Application August 11, 1947, Serial No. 768,025
3 Claims. (Cl. 107—22)



1. A conveyor for supporting an elongated sheet of dough, rotary knives disposed above and spaced across the conveyor for dividing the dough into strips, a rotatable cutting drum directly below the rotary knives and extending across the conveyor, the knives cooperating with the cutting drum to form bites therebetween, dough strip supporting belts extending in a forward direction with respect to the conveyor from beneath the spaces between the knives and commencing substantially directly below the axis of the rotary knives, there being a separate belt for each space so that there are a plurality of dough strip supporting belts spaced across the conveyor, the belts extending alternately to two different levels.

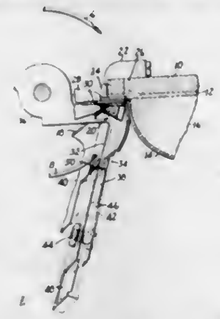
2,640,447
FLUE-UNBLOCKING AND SAFETY SYSTEM FOR INCINERATORS
Joseph K. Blum, Scarsdale, N. Y., assignor to Burnwell Incinerator Corporation, New York, N. Y., a corporation of New York
Application June 19, 1950, Serial No. 168,949
11 Claims. (Cl. 110—18)



1. In combination with an incinerator of the character described comprising a furnace and a single upright flue communicating with the top of said furnace, said flue serving as both a gas discharge flue and feeding chute, an unblocking system adapted to dislocate automatically refuse lodged in said flue, said system comprising normally dormant dumping means communicating with said flue adjacent the upper end thereof and adapted to introduce weighted material in said flue upon actuation, a pressure sensitive element communicating with the interior of said furnace and being responsive to increases of pressure in said incinerator due to a clogged condition of the flue; and means responsive to said element for actuating said dumping means.

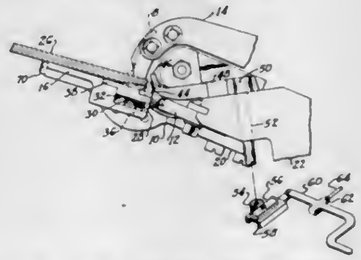
2,640,448
VARIABLE WIDTH WRAPPER STRIP GUIDE FOR SEWING MACHINES
Maurice Roberts, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 6, 1951, Serial No. 204,709
In Great Britain April 5, 1950
5 Claims. (Cl. 112—52)

1. A shoe sewing machine having a needle and other stitch forming devices, a work support, a presser foot and a variable width wrapper strip guide located in advance of the point of operation of the sttich forming devices and formed with a passage of a width equal to that of the maximum width portion of the wrapper strip, in combination with a displaceable finger mounted for movement at right angles to the width of the guide passage for reducing during operation



of the machine the size of passage in the guide from the maximum to the minimum width of the wrapper strip.

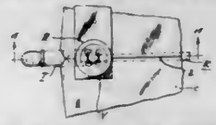
2,640,449
SHOE SOLE SEWING MACHINE
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 12, 1950, Serial No. 161,710
6 Claims. (Cl. 112—62)



1. A shoe sole sewing machine for securing a welt to the marginal portion of an unattached outsole, having a frame, a curved needle and clamp means for feeding the work comprising a work support and a presser foot both movable on the frame in the direction of feed, in combination with means for guiding the welt and outsole to the sewing point including a work table on the frame, separate from the work support and presser foot, for supporting the outsole and welt, the table having a sole engaging surface and being mounted for inclination relative to that portion of the path of the needle intersecting the sole engaging surface to bring the sole engaging surface at an angle less than 70° with said portion of the needle path.

2,640,450
UMBRELLA CONSTRUCTION
Emanuel Diamond, Philadelphia, Pa., assignor of one-half to Clarence Frankford, Havertown, Pa.
Original application November 26, 1948, Serial No. 62,031, now Patent No. 2,571,122, dated October 16, 1951. Divided and this application January 5, 1951, Serial No. 204,594
2 Claims. (Cl. 112—265)

1. A method of sewing a button-and-tie closure upon an umbrella cover constructed of a plurality of segments seamed together along generally radial lines and having a tip fastened at the outer end of each seam; said method including the steps of positioning said cover so that its seam line extends generally at an angle to the tip, clamping the tip and the cover in said position with a button held with its center in alignment with the seam closely adjacent the tip and with one end of an elongated tie disposed intermediate the button and the seam and with the tie extending generally at right angles to the seam line, and thereafter automatically stitching the button and tie to the cover with the stitches spanning the seam line.



2,640,451
TUBE WINDING MACHINE
Robert S. Carr, Maplewood, N. J., assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Massachusetts
Application May 3, 1948, Serial No. 24,781
7 Claims. (Cl. 113—35)



6. A machine for making helically wound, non-circular tubing including, in combination forming apparatus through which a strip passes and in which the strip is bent to a transverse contour having a central corrugation, a turned-up flange along one side and a folded-over edge along the other side, a non-circular mandrel to which the strip is supplied, driving means that impart continuous rotation to the mandrel about its longitudinal axis, guide means along which the strip passes to the mandrel in substantially the same direction at all times and at a slight angle to the axis of the mandrel so as to wind as a helix and engage the flange of the strip with the folded-over edge along the other side of the strip in the next convolution of the strip on the mandrel, said guide means including a chute having a face confronting the mandrel and shaped to the contour of the strip with a face that holds the strip adjacent to the mandrel and with one or more shoulders that confine and guide the strip against displacement lengthwise of the mandrel at the region of application of the strip to the mandrel, means supporting the chute for movement toward and from the axis of the mandrel, said chute being so located with respect to said mandrel that components of motion of the tubing-forming surfaces of the mandrel in an outward direction are

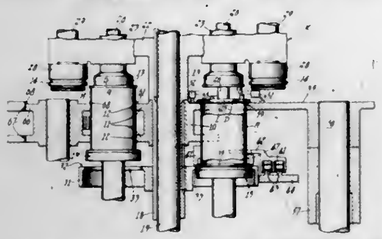
transmitted to the chute to force it outwardly, means urging the chute inwardly to maintain it in operative relation to the mandrel, the portion of the chute having said face and shoulders that fit the contour of the strip extending along the length of the chute for a distance that includes the full range of the movement of the point of application of the strip to the mandrel during the various changes of the radius of the mandrel confronting the chute.

2,640,452

CAN CLOSING MACHINE WITH FLANGE SUSPENSION SUPPORT

George M. Stone, Westfield, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application March 30, 1950, Serial No. 152,898
3 Claims. (Cl. 113—115)



1. In a can closing machine in which the can is rotated relative to a non-rotating seaming instrumentality, the combination of a pair of axially rotatable and reciprocable plunger and chuck members disposed adjacent said seaming instrumentality for axial movement toward and away from opposite ends of a can to be sealed, a rotatable turret disposed between said members and having a peripheral pocket in alignment therewith for receiving the flanged end of a can to be closed, said turret having upstanding shoulder means thereon adjacent said pocket, the upper surface of said shoulder means being spaced above the upper turret surface for engaging beneath said can flange to support the can in said turret pocket with the opposite ends of the can in spaced relation to said oppositely disposed plunger and chuck members, means for feeding a cover having a gasket lined flange thereon to said supported can flange with said gasket resting in full contact with the can flange, said lined cover flange terminating in a freely depending curled edge spaced above said upper turret surface by said shoulder means, means for rotating one of said chuck and plunger members, and means for relatively moving said members into engagement with opposite ends of said assembled and suspended can and cover to clamp the assembled can flange and cover for concerted rotation by and between said members and for elevation of the assembled can and cover to operating position relative to said seaming instrumentality to secure the cover onto the can.

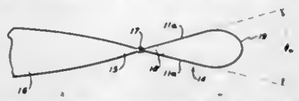
2,640,453

STABILIZING STEERING VANE

Hans E. Hollmann, Camarillo, Calif., assignor to the United States of America as represented by the Secretary of the Navy

Application July 27, 1949, Serial No. 107,130
1 Claim. (Cl. 114—162)
(Granted under Title 35, U. S. Code (1952), sec. 266)

In combination, a craft having a tapered stern, a rudder having a relatively thin leading edge pivoted to said stern of the craft, a relatively thick arcuate trailing edge, and control planes diverging symmetrically from said leading edge



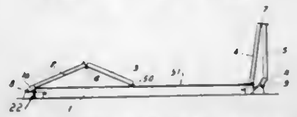
and joined by said trailing edge in fixed relation to each other, the angle of divergence of said control planes being substantially equal to the angle of convergence of said tapered stern.

2,640,454

MEANS FOR OPERATING HATCH-COVERS ABOARD SHIP

Henri Kummerman, Neuilly-sur-Seine, France

Application July 14, 1949, Serial No. 104,748
In France March 26, 1949
8 Claims. (Cl. 114—201)



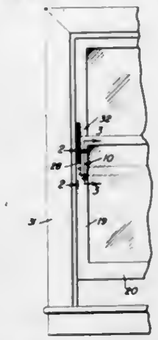
1. In a ship having a deck provided with a hatch surrounded by a coaming and with hatch covers, a control arrangement for the ship's hatch covers of the type comprising mutually pivoted hatch sections at least one of which is also pivoted to the latch coaming, said arrangement comprising at least one hollow body pivotally mounted on the ship's deck outside the hatch coaming and laterally thereof, and a movable member slidingly located in said body and pivotally and directly secured to the hatch section which is pivoted to the coaming, this latter pivotal connection being closely adjacent the pivotal connection between the corresponding hatch cover and the coaming, said body and member forming a jack and being adapted to cause the sliding of said member in said body and the lifting of the cover.

2,640,455

BURGLAR ALARM

Samuel Talucci, Philadelphia, Pa.

Application October 25, 1951, Serial No. 253,147
3 Claims. (Cl. 116—86)



1. A burglar alarm of the character described comprising a vertically elongated housing for

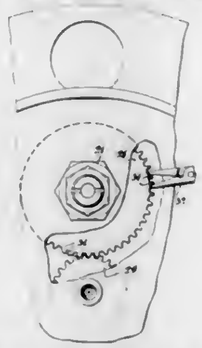
mounting on a slidable window sash, a flat sounding spring mounted in the housing and having one end portion secured thereto, the other end portion of said spring being free, an arm on said other end portion of the spring, a crank shaft journaled in the housing and engaged with the arm for actuating the spring, and an operating lever on one end of said crankshaft.

2,640,456

INDICATING INSTRUMENT WITH GEARED POINTER AND POINTER STOP THEREFOR

Clarence A. de Giers, Forest Hills, N. Y., assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware

Application October 24, 1950, Serial No. 191,902
1 Claim. (Cl. 116—129)



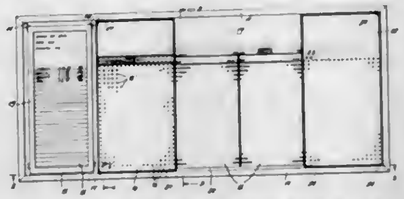
An indicating instrument having a dial, comprising a pointer shaft carrying a pointer cooperating with said dial and movable thereover, a gear train including a gear element provided with gear teeth and connected to drive said pointer, actuating means for said gear element including a movable element provided with gear teeth meshing with said gear element, and means for limiting the amplitude of movement of said pointer shaft in at least one direction, comprising a selected crimped-together pair of adjacent gear teeth on one of said elements provided with gear teeth.

2,640,457

INVENTORY AGING DISPLAY DEVICE

Carmine R. Scordo, South Norwalk, and George W. Wassell and Frank Lloyd Wassell, Westport, Conn., assignors to Georgene Parkin Wassell, Westport, Conn.

Application August 2, 1949, Serial No. 108,184
4 Claims. (Cl. 116—136)



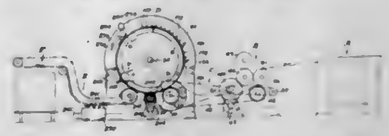
1. Indicating apparatus comprising a board, a panel member having a plurality of indicia receiving spaces at one side of the board, and a movable indicator board member slidable on the board, the movable indicator board member having a plurality of horizontal rows of apertures in horizontal alignment with the indicia receiving spaces of the panel member, the apertures in each row forming a plurality of columns with the corresponding apertures in the other rows, the movable indicator board member further being slidable to the rear of the panel member in a plane parallel to the plane of the board and in a direction parallel to the horizontal rows of the apertures.

2,640,458

MACHINE FOR PRINTING AND POWDERING SHEETS

Arthur C. Sias, Weston, Conn., assignor to Commercial Decal, Inc., Mount Vernon, N. Y., a corporation of New York

Application March 17, 1950, Serial No. 150,321
29 Claims. (Cl. 118—46)



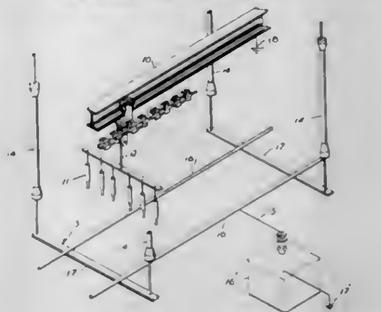
1. In a machine of the class described, the combination of a rotary printing press, a rotary powder cylinder disposed adjacent the press and having at least one powder fountain, the surface of the cylinder forming one wall of the fountain, a pile-up device on the other side of the cylinder, sheet delivery means disposed between the press and the cylinder and between the cylinder and the pile-up device adapted to transfer sheets to and from the cylinder, grippers on the delivery means and the cylinder to grip and move the sheets, and synchronizing means coupled with said sheet delivery means and with said cylinder so that each sheet is always under constant control of one of the several sets of grippers.

2,640,459

ELECTROSTATIC DETEARING APPARATUS

Harold K. Stoddard, Indianapolis, Ind., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana

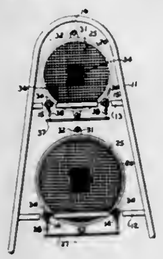
Application October 22, 1945, Serial No. 623,781
8 Claims. (Cl. 118—51)



1. In electrostatic detearing apparatus, a detearing electrode, means for moving articles to be deteared past said electrode and in spaced relation thereto, said means comprising a conveyor and a plurality of hangers each adapted

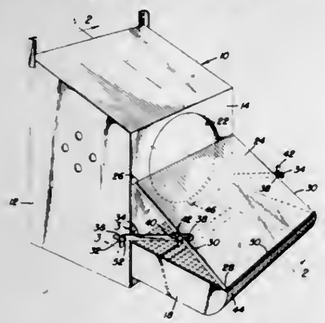
to support in a group extending transversely of the path of conveyor movement a plurality of articles to be deteared, means including a high-voltage source for maintaining an electrostatic field between said electrode and each group of articles moving past it, said electrode comprising a plurality of elements on one side of said groups extending generally parallel to the path of article movement and spaced laterally from each other and presenting relatively narrow surfaces toward the articles.

2,640,460
EXERCISING CAGE
John A. Siegel, Detroit, Mich.
Application May 20, 1952, Serial No. 288,789
10 Claims. (Cl. 119—17)



9. A cage unit comprising a pair of fixed rings held in spaced relation by means of tie rods, each of said rings having a cage end closure member removably supported therein, and a tubular element formed of screen rotatably supported at either end by rollers carried by said rings.

2,640,461
NONROOSTING LID FOR NESTS
Leo W. Dadlow, La Porte, Ind., assignor of fifty per cent to Ida B. Dadlow, La Porte, Ind.
Application May 16, 1949, Serial No. 93,561
5 Claims. (Cl. 119—45)



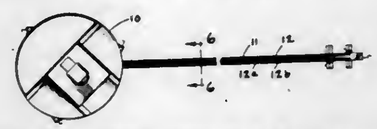
1. In a poultry nest including a box-like housing having an opening therein and a nest box partly disposed in the housing and beneath the opening; a non-roosting lid comprising a panel having inner and outer edges, the outer edge of said panel resting upon the nest box and the inner edge of said panel bearing against the housing to support the panel in a vertically inclined position, and means bracing said panel to said housing and locking the panel in a vertically inclined position, said panel partially blocking said opening, said bracing means constituting the sole means for attaching said panel to said housing.

2,640,462
AUTOMATIC POULTRY FEEDER
De Verne V. Doty, Milton, and Anderson Long, Frankford, Del.
Application February 19, 1949, Serial No. 77,386
4 Claims. (Cl. 119—52)



1. An automatic poultry feeder comprising a pipe having a plurality of longitudinally spaced feed drop holes, a trough disposed beneath the pipe in a horizontal plane to receive the feed, a continuous rope extending through the pipe, power means for friction driving the feed rope continuously through the pipe and a hopper for extending the feed to the pipe, and said pipe having at least one U-shaped portion disposed in a horizontal plane and having closed end portions and leg portions, and said rope being in the form of a loop and continuous and said power means engaging the rope at the opposite leg portions.

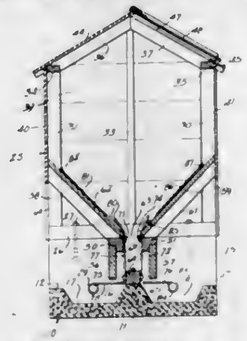
2,640,463
STOCK FEEDER
Gerald L. Kitson, Rockford, Mich., assignor of one-half to C. N. Cordis, Chicago, Ill., one-sixth to Charles H. Kitson, and one-sixth to Leon Kitson, both of Rockford, Mich.
Application January 18, 1950, Serial No. 139,187
3 Claims. (Cl. 119—52)



1. A stock feeder comprising a feed-supply hopper having a discharge outlet, conduit means communicating with said outlet, said conduit means comprising an open-top horizontal trough affording access by stock to feed contained therein, a plurality of adjacent sections of endless flexible distributing means traversing said conduit in opposite directions adjacent the bottom of said conduit, and drive means for imparting linear movement to said distributing means in said conduit.

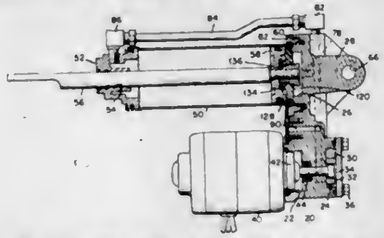
2,640,464
AGITATING TYPE STOCK FEEDER
Joseph Jindrich, Marengo, Iowa
Application June 22, 1951, Serial No. 232,941
4 Claims. (Cl. 119—54)

1. A hog feeder comprising: a base having side by side feed troughs separated by a center ridge; a hopper above the base having downwardly converging floor portions spaced apart at their convergent lower edges to define a dispensing slot extending parallel to and spaced vertically of the center ridge; a series of agitating members each of which is formed substantially to an L shape and is provided with a vertical leg extending between and rotatably mounted at its upper and lower ends upon the lower edge of a floor portion and the center ridge respectively, a horizontal leg rigid with and extending radially from the lower end of the vertical leg into the feed trough to impart rotatable movement to the vertical leg responsive to swinging of the horizontal leg by a hog feeding from the trough, and a finger rigid at one end with and extending obliquely from the upper end of the vertical leg within the hopper so as to describe an arcuate path at its other end within



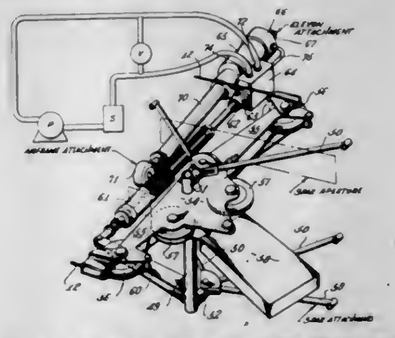
a quantity of feed contained in the hopper on rotatable movement of the vertical leg; and a series of flexible elements associated with the respective agitating members, each flexible element being anchored at one end to a floor portion and being connected at its other end to a finger, for alternate tightening and slackening of the element within said quantity of feed simultaneous with movement of said other end of the element away from and toward its associated floor portion.

2,640,465
POWER UNIT
Stewart B. McLeod, Dearborn, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application December 15, 1950, Serial No. 200,954
6 Claims. (Cl. 121—40)



1. In a power unit, a cylinder, a piston assembly in said cylinder comprising a piston rod, a piston rigidly connected to said piston rod, an expansible friction ring having a central opening therethrough, said piston having a frustoconical cam extending axially therefrom with its smaller end disposed toward said piston, the larger end of said cam extending through the central opening in said friction ring, said ring being relatively movable away from and toward said piston respectively to effect positive expansion and to permit contraction of said ring, said piston having peripheral sealing means engaging the cylinder wall, said ring having peripheral sealing means engaging the cylinder wall and in relatively light frictional contact therewith when said ring is contracted, and annular sealing means intermediate said cam and the central opening in said ring.

2,640,466
FOLLOW-UP TYPE PRESSURE FLUID SERVOMOTOR
Thomas A. Feeney, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application July 8, 1952, Serial No. 297,725
8 Claims. (Cl. 121—41)

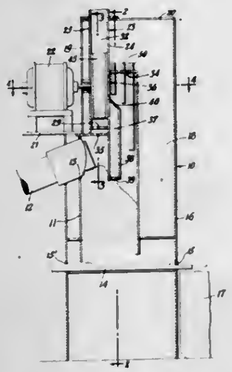


1. In an aircraft having a movable flight control surface, the combination of a full powered system for operating the surface, said system comprising: a hydraulic motor including a cylinder element and a piston element, one of said elements being connected to the aircraft airframe and the other to the surface for moving the latter by operation of said motor; a control valve connected to said motor, including a casing member and a valve member movable therein from a relative neutral position for admitting fluid from a source of constant pressure to said cylinder element on alternate sides of said piston element, while exhausting fluid from said cylinder element on the opposite alternate sides of said piston element; means connecting one of said members to the control surface for movement thereby in a direction to reposition said members in their relative neutral position when said valve is operated to cause said motor to move the control surface; pilot-controlled means for moving said valve member; and means in said valve effective in the neutral position of said members to define restricted flow ports for admitting pressure fluid equally to, while simultaneously exhausting fluid equally from, said cylinder element on both sides of said piston element, said ports being proportioned to provide pressure drops therethrough that will maintain pressure on both sides of said piston element at least as great as about half that of said constant pressure source.

2,640,467
HEATING APPARATUS
Raymond C. Johnson, Wilkes-Barre, Pa., and Cecil C. Tyrrell, Binghamton, N. Y., assignors to Anthracite Equipment Corporation, Wilkes-Barre, Pa., a corporation of Delaware
Application February 3, 1948, Serial No. 6,036
19 Claims. (Cl. 122—30)

1. Heating apparatus for burning solid fuel to produce combustion with substantially no CO in

the resulting gases and obtaining a high rate of heat transfer to a fluid medium, said apparatus comprising a fuel-receiving chamber having an opening in one portion thereof for receiving solid fuel and an opening in another portion for the discharge of consumed fuel, said chamber between said openings comprising a continuous fuel-enclosing wall for contacting said fuel around the inner surface of said wall and confining said fuel in an elongated column, means for continuously supplying solid fuel into said chamber through said receiving opening and concurrently exerting a force through said fuel column upon the consumed fuel for ejecting the latter through said discharge opening, a portion of said fuel-confining wall between said receiving and discharge openings defining a combustion zone in a portion of said fuel column confined



by said inner surface of said wall, fan means for continuously forcing air through said combustion zone in quantity sufficient for substantially complete combustion in said fuel bed and for thence forcing the hot gaseous products of said combustion through the end portion of said confined fuel column remote from said discharge opening to subject incoming fresh fuel to the heat of said gases, passage means communicating with said fuel-receiving chamber beyond said remote end of said fuel bed for conducting said gaseous combustion products to a point of discharge, and compartment means for maintaining a fluid medium in heat transfer relation with said fuel column and with said passage means, said passage means including a chamber containing said fan means and located in heat transfer relation with said fluid medium.

2,640,468

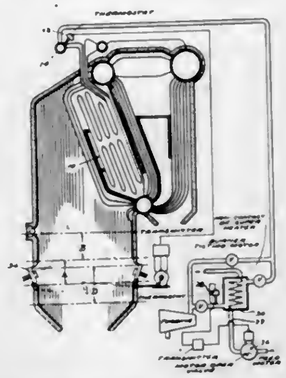
METHOD OF SUPERHEAT CONTROL

Wilbur H. Armacost, Scarsdale, N. Y., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware

Application August 9, 1945, Serial No. 609,956

2 Claims. (Cl. 122—479)

1. The method of maintaining superheated steam temperature in a steam generator in which the major portion of the steam is produced in a vertical furnace lined with steam generating elements exposed to radiant heat from burning fuel and which generators have superheaters of relatively large heat storage capacity, due to the metallic mass thereof, sufficient to cause a substantial time lag in the change of steam temperature when the volume and temperature of heating gases passing over the superheater decrease with the fuel burning rate upon a fall in steam demand, which comprises: introducing fuel and air into the furnace in such directions so as to create a turbulent gas mass in a zone remote from the furnace outlet; burning said fuel at a rate in accordance with steam demand and absorbing the radiant heat therefrom in the steam generating elements to produce steam to be superheated; passing the steam so generated through the superheater to increase its temperature; controllably altering the angle of introduction of fuel and air to the furnace to lower the zone of combustion with respect to the steam



generating elements that absorb radiant heat so as to increase said absorption and reduce the temperature of gases passing over the superheater to compensate for only the major part of increases above a predetermined value of steam temperature leaving the superheater; and simultaneously subjecting all or part of the superheated steam to a desuperheating action so as to promptly offset the overheating of all of the steam, during said lag, due to said heat storage in the superheater metal to effect minor adjustments of steam temperature during a change in load thereby maintaining a substantially constant final steam temperature.

2,640,469

COMBINED AIR FAN AND CLUTCH FOR ENGINE COOLING

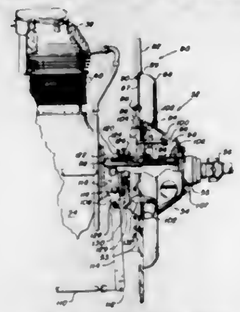
Igor I. Sikorsky, Bridgeport, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Original application May 9, 1945, Serial No. 592,862, now Patent No. 2,517,509, dated August 1, 1950. Divided and this application May 20, 1949, Serial No. 94,441

13 Claims. (Cl. 123—2)

13. A combined fan and clutch mechanism for a rotary wing aircraft of the type having an air cooled engine including a crankshaft and cowling forming air passage means having an inner airfoil surface for directing a cooling airstream over the engine cylinders, said combined clutch and fan mechanism including a driving clutch member driven by the crankshaft of the engine and a driven clutch member rotatable relative thereto, an inner cowling ring having an exterior airfoil surface carried by said driving clutch member in spaced relation to the walls of said passage means, and a fan carried by said

driving clutch member having blades rotatable in the streamlined annular space between the



walls of said passage means and said inner cowling.

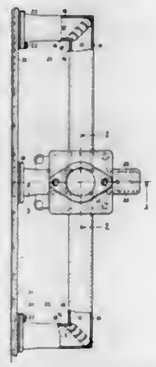
2,640,470

COMBUSTION ENGINE INLET MANIFOLD

Jules Haltenberger, Rancho Santa Fe, Calif.

Application October 20, 1949, Serial No. 122,474

4 Claims. (Cl. 123—52)



1. A combustion in-line engine, a generally elongated inlet manifold unit having an inlet passage in lateral spaced relation from said engine, on said engine, substantially centrally placed angularly connected transverse outlet duct of materially greater length than the lateral space in-between said passage and engine connecting said passage to said engine, and a flow direction changing vane in said connection.

2,640,471

AUTOMOBILE V ENGINE SYMMETRICAL MANIFOLD

Jules Haltenberger, Rancho Santa Fe, Calif.

Application April 24, 1950, Serial No. 157,734

8 Claims. (Cl. 123—52)



1. In a V engine inlet manifold, an inlet passage, an associated lengthwise duct, a pair of associated crosswise ducts forming two connections, and directional turning vanes carried by insertable plug means in said connections.

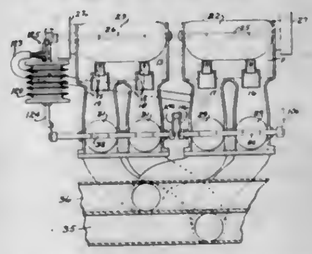
2,640,472

MULTIBARREL CARBURETOR

George M. Bicknell, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application December 19, 1949, Serial No. 133,930

8 Claims. (Cl. 123—127)



1. In combination with an internal combustion engine having two intake manifolds, a carburetor having a primary set of mixture conduits for providing a fuel mixture for low and medium speed operation, a second set of mixture conduits for providing additional fuel for high speed operation, throttle valves in each of said mixture conduits, the throttle valves in said primary conduits being manually controlled, the throttle valves in said secondary mixture conduits being responsive to suction in said primary mixture conduits, separate fuel reservoirs, each fuel reservoir being connected to one primary and one secondary mixture conduit, one primary and one secondary mixture conduit communicating with each intake manifold.

2,640,473

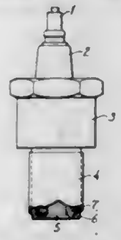
SURFACE DISCHARGE SPARK PLUG FOR LOW VOLTAGES AND CONDENSER DISCHARGE

Wytze Beye Smits, Voorburg, Netherlands, assignor to Smitsvonk N. V., Rijswijk, Netherlands, a company of the Netherlands

Application April 14, 1951, Serial No. 221,000

In the Netherlands April 19, 1950

6 Claims. (Cl. 123—169)



1. Low voltage discharge spark plug including at least two coaxially extended electrodes, one surrounding the other, both electrodes facing each other at their sparking end faces with circular rims, the rims projecting towards each other and leaving a narrow gap therebetween, substantially not wider than 0.7 mm., and a separating insulating body of at most slight

conductivity disposed between said electrodes and having a projection reaching through the gap with its end surface flush with said sparking end faces so as to constitute therewith the active surface of the spark plug; the depth of the gap being proportioned so as to determine the depth of erosion to be admitted through use of the spark plug; at least one thin metallic layer being inserted into the projection of said separating body and extended from the active surface through and beyond the depth of the gap, peripherally around the same and spaced apart from both rims, thereby to re-enforce the material of said projection, said layer being of a thinness to ensure its erosion under use of the spark plug to practically the extent of the erosion of the separating insulating material.

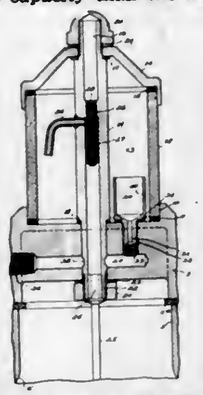
2,640,474
SPARK PLUG
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application October 1, 1951, Serial No. 249,134
2 Claims. (Cl. 123—169)



1. A spark plug insulator shell and ground electrode assembly comprising an insulator shell having angularly spaced nonaligned slots opening to and extending from its inner end, bendable ground electrodes disposed in parallel relation within said shell and guarded thereby and with their outer ends within and welded in said slots and with their inner ends free and disposed in oppositely directed laterally spaced overlapping relation to each other and to the axial center of the shell, said shell having other slots opening to and extending from its inner end and disposed in angularly spaced relation to said ground electrode receiving slots, and tool abutment elements disposed and welded in said other slots with their inner ends projecting into the shell in opposed angularly inclined laterally spaced relation to the free ends of the ground electrodes facilitating the adjustment of an electrode relative to the axial center of the shell by a tool in supported engagement with the opposed abutment element.

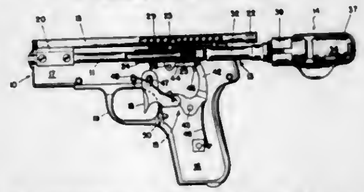
2,640,475
CYLINDER TOP OILER
Robert K. Chase, Rochester, N. Y.
Application November 17, 1949, Serial No. 127,979
4 Claims. (Cl. 123—196)

1. In a cylinder top oiler for internal combustion engines, the combination with a casing structure embodying an oil reservoir, a vacuum chamber having a feed port, an oil line connecting the reservoir and chamber and provided with a delivery port in the chamber, and a carbureter connection arranged to drain the feed port and directly connected thereto but otherwise sealed from the vacuum chamber, of a cup surrounding the feed port with its rim well above the feed port and the floor of the chamber so that it may maintain an independent oil level above that in the chamber into which cup arranged on the floor of the chamber accumulations of oil on the floor of the vacuum chamber spill when the oil level in the latter reaches a given point, said cup being provided with a minute orifice of less capacity than the feed port in a



side wall thereof connecting it with the chamber below the rim of the cup and above the floor of the chamber.

2,640,476
PNEUMATIC GUN
Leland K. Spink, Foxboro, Mass.
Application July 22, 1949, Serial No. 106,210
4 Claims. (Cl. 124—11)

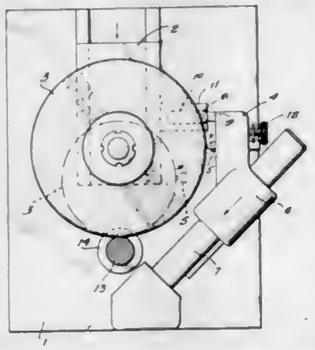


1. A pneumatic gun comprising a barrel, a valve assembly mounted on the outside of the inner end of said barrel for telescoping movement with respect thereto, and a pneumatic power supply unit mounted on said valve assembly, said valve assembly including a valve opening member movable within said valve assembly for engagement with the inner end of said barrel, and a valve, including a valve stem for opening said valve upon engagement of said stem with said valve opening member as it engages the inner end of said barrel, a spring for thrusting said valve assembly telescopingly along said barrel to open said valve by engaging the inner end of said barrel with said valve opening member and engaging said valve opening member with said valve stem, and a trigger mechanism for simultaneously loading said spring and moving said valve assembly in the direction away from said barrel, and thereafter releasing said spring for thrust against said valve assembly in the direction toward said barrel.

2,640,477
GRINDING WHEEL DRESSING APPARATUS
Helge Gösta Norlander, Stockholm, Sweden
Application September 18, 1951, Serial No. 247,159
In Sweden October 4, 1950
2 Claims. (Cl. 125—11)

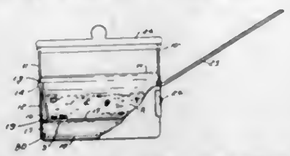
1. A grinding apparatus, comprising in combination, support means mounted for linear

movement; a grinding wheel rotatably mounted on said support means for rotation with respect thereto and for linear movement therewith so that said grinding wheel moves along a first straight line located in a predetermined plane perpendicular to the axis of said grinding wheel; a mounting member located adjacent to said grinding wheel; fixedly mounted guide means operatively connected to said mounting member for moving the same toward said first straight line along a second straight line located in said plane and making a 45° angle with said straight line; dressing tool means fixedly mounted on



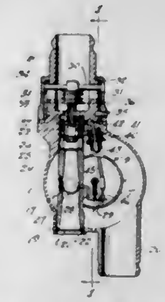
said mounting member and located in engagement with the periphery of said grinding wheel; and connecting means interconnecting said mounting member with said support means for moving said mounting member along said second line only upon movement of said support member, said connecting means comprising a guide portion extending from said support means for movement therewith and being formed with a slot extending in a direction perpendicular to the linear movement of said support means and a roller member mounted on said mounting member and engaging said slot.

2,640,478
HEAT STORING COOKING UTENSIL
Algernon F. Flournoy, Shreveport, La., assignor, by decree of distribution, to Margaret Thurston Flournoy
Application November 23, 1948, Serial No. 61,593
8 Claims. (Cl. 126—375)



1. A heat storing cooking utensil comprising a cooking vessel including an upper container and a lower container spaced therefrom, a heat storing substance compartment defined by the wall surface of the lower container of said cooking vessel and the bottoms of said upper and lower containers and a quantity of a heat storing substance in said heat storing substance compartment, said heat storing substance having a high latent heat of fusion and a melting point within the range of 250 to 300 degrees Fahrenheit, and a multiplicity of thermally conducting fins embedded in said heat storing substance and extending in heat transfer contact with the bottoms of both said upper and lower containers and the interior side walls of said lower container for conducting heat to said upper container.

2,640,479
RESUSCITATOR USING AN AUXILIARY GAS CONSERVING VALVE
Henry Seeler, Dayton, Ohio
Application January 3, 1952, Serial No. 264,825
7 Claims. (Cl. 128—29)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A resuscitator comprising, a housing defining a gas receiving chamber, means providing a gas inlet into said housing, means providing a gas outlet from said housing into the ambient atmosphere, means providing a fitting on a wall of said housing connecting with said chamber and adapted for connection with a face mask, an aspirator extending across said housing from said gas inlet to said gas outlet and including spill ports opening laterally from the aspirator into said gas receiving chamber, a movably mounted valve in said aspirator downstream from said ports, a valve operating means in said housing responsive to changes in pressure therein during inhalation and exhalation phases of the breathing cycle to actuate said valve from closed to open position and vice versa by the action of rising and falling pressure in said chamber, an auxiliary gas valve means connected between said gas inlet and said chamber, and means connecting said auxiliary gas valve means with said valve operating means to open the latter valve means when the valve in the aspirator is closed and vice versa.

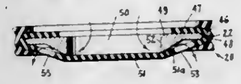
2,640,480
TRACTION APPARATUS
Benjamin Hill, Fraser, Pa.
Application May 14, 1949, Serial No. 93,291
2 Claims. (Cl. 128—57)



2. In traction apparatus, the combination comprising a base, a body supporting member reciprocable with respect to said base, members at one end of said supporting member for engagement by the lower extremities of the body, a head engaging member at the other end of

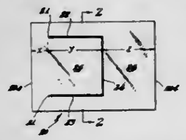
said supporting member having portions for engagement with the head at a plurality of locations, members for adjusting the tension applied to said head engaging member, and body contacting members on said base and extending through said body supporting member for engagement longitudinally with portions of the body upon reciprocation of said supporting member.

2,640,481
EXHALATION VALVE
Thomas A. Conley, Harrisville, R. I., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 14, 1950, Serial No. 144,117
11 Claims. (Cl. 128—146)



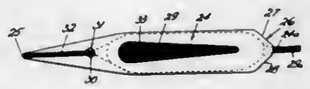
1. A valve of the character described comprising an enclosure member having an annular-like valve supporting wall provided with a circumferentially extending channel in the inner surface thereof, a disc-like resilient diaphragm overlying the open area defined by said annular-like wall and connected throughout its periphery to said wall, and a substantially rigid disc-like tension plate having its periphery seated in said channel, said tension plate being spaced from said diaphragm and having a protruding annular portion directed toward said diaphragm and in engagement therewith whereby the diaphragm will be yieldably held by the inherent resiliency of the material thereof in engagement with the tension plate, said diaphragm and tension plate having openings therein for permitting passage of air therethrough when air pressure is sufficient to overcome the inherent resiliency of the material of the diaphragm and cause it to be moved out of engagement with said annular portion.

2,640,482
TOE PROTECTOR
Isadore Kiwad, Westwood, N. J.
Application February 27, 1951, Serial No. 212,926
3 Claims. (Cl. 128—153)



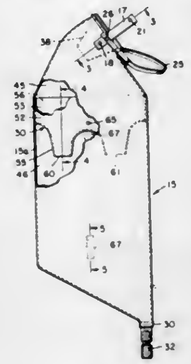
1. As an article of manufacture, a toe protector of the character described comprising longitudinal sheet of flexible material, a plurality of integral tongue portions in the plane of said longitudinal sheet, and of a given length, said tongue portions being spaced from each other a given distance along the length of said sheet, said sheet being provided at one end thereof with an imperforate portion substantially equal in length to the length of a single tongue portion, each of said tongue portions being bendable away from the plane of said sheet to form corresponding openings in the plane of said sheet, said openings being adapted to receive therethrough a toe of the foot of a user with each of said tongue and said imperforate portion being thereby positioned between a pair of adjacent toes.

2,640,483
SANITARY BANDAGE
Ruth Brown, New York, N. Y.
Application June 22, 1950, Serial No. 169,649
5 Claims. (Cl. 128—286)



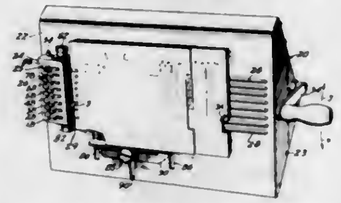
3. A catamenial bandage comprising a, soft, thin, substantially seamless envelope of smooth, chemically inert material, a moisture permeable filler therein, one of the end portions of said absorbent filler reaching to one of the ends of the envelope; said envelope comprising upper and lower substantially flat portions and having a longitudinally extending tapering window in the top portion thereof, through which moisture may be absorbed by said filler, and openings therein on opposite sides of said window, at least one of which is on one of said flat portions, through which openings the end portions of said filler may extend.

2,640,484
SANITARY DEVICE
Albert Johnson, Los Angeles, Calif.
Application February 23, 1952, Serial No. 273,007
2 Claims. (Cl. 128—295)



1. A sanitary urinal comprising an elongated, flexible, waterproof receptacle having an inlet opening at its top end and an outlet opening at its bottom end, a partition member secured only along its top edge to the inner surface of said receptacle at a point spaced below said inlet opening and above said outlet opening whereby to provide in said receptacle an inlet chamber between said partition member and said inlet opening and a collecting chamber between said partition member and said outlet opening; said partition member being composed of two normally face to face contacting sidewalls secured together along their side margins and being open at its top for admission of liquid from the inlet chamber and open at its bottom for release of said liquid into the outlet chamber, and means for suspending said receptacle from the body of a user.

2,640,485
MACHINE FOR SORTING AND SELECTING SHEETS OR PRINTED FORMS
Joseph Zalkind, New York, N. Y.
Application April 5, 1949, Serial No. 85,484
9 Claims. (Cl. 129—16.1)



1. A machine for sorting and selecting forms, comprising a plurality of pairs of holding and pulling spindles, said pulling spindles being carried in a movable carriage, all of said spindles being reciprocal, and bars extending between respective pairs of spindles and engageable therewith, including means for selectively reciprocating said bars to simultaneously reciprocate respective pairs of said spindles, said bars being slidably related to said carriage and passing therethrough, whereby said carriage may be moved so as to effect motion of said pulling spindles with respect to said holding spindles.

2,640,486
HAIR CURLER
Alexis Zachary, New York, N. Y.
Application November 30, 1950, Serial No. 198,432
2 Claims. (Cl. 132—33)

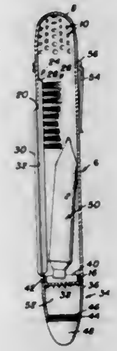
1. An implement for treating hair comprising a rod-shaped body, a head on one end, the body having a bore extending into it from said end, slots in the sides open at said end, a compressible element in said bore at said end, the head enveloping said end, a closure member in the bore at said end and engaging the adjacent extremity of the compressible element, a sleeve movably mounted on the body, a clip on the sleeve, a pivot pin extending through the bore and projecting through said slots, the ends of the clip being engaged by the pin, the inner end of said element abutting said pin.

2,640,487
COSMETIC ASSEMBLY
Henry Fitz, Washington, D. C., assignor to Fitz Cosmetics Incorporated, Washington, D. C., a corporation of Delaware
Application July 13, 1950, Serial No. 173,502
3 Claims. (Cl. 132—79)



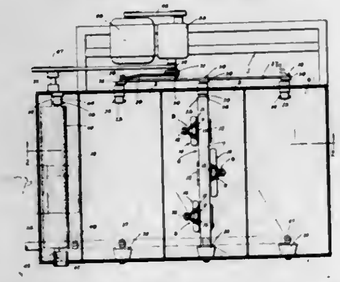
1. A lipstick container and mirror combination which comprises an expansible unitary lipstick container casing, a metal framework for a circular mirror made integral with said casing, a circular mirror in said framework, said casing extending from the line of attachment to said framework in a substantially cylindrical surface and terminating in a free edge corresponding to an element of the cylindrical surface so as to provide a substantially rectilinear space for circumferential expansion when a lipstick tube is inserted into said container casing and means for holding the mirror in place within said metal framework.

2,640,488
MULTIPURPOSE POCKET-TYPE TOOTHBRUSH AND DENTIFRICE APPLIANCE
Anthony D. Velodota, Southington, Conn.
Application January 2, 1952, Serial No. 264,509
1 Claim. (Cl. 132—84)



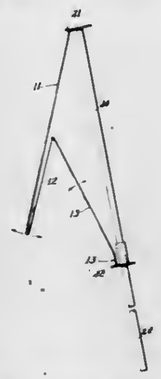
A multipurpose pocket-size personal use appliance comprising an elongated hollow barrel closed in but perforated at one end and completely open at its opposite end, said barrel having a keying slot in one side, said slot being closed at one end and said closed end terminating inwardly of but adjacent to said perforated end, the other end of said slot being open and opening through the open end of said barrel, an insertable and removable toothbrush embodying a combined handle and head, said head being provided with bristles, said handle and head being of an overall length greater than the length of said slot, one end of the handle terminating in inwardly spaced relation to the adjacent open end of the slot and the free outer end of the head projecting beyond the closed end of the slot, said handle having a longitudinally extending rib formed integral therewith and provided with grooves along opposite longitudinal edges and defining a key, said key being removably keyed in said slot, one end of the key being spaced from the corresponding end of the head and the other end of the key terminating flush with the corresponding end of the handle and therefore being spaced inwardly from the open end of the slot, and closure means for the open end of the barrel, said closure means being removably attached to and covering said open end of the barrel and bridging the open end of the slot and thus preventing displacement of the toothbrush from the barrel by way of said slot, said closure means comprising a rigid liquid container closed at its inner end and open at its outer end, and an imperforate removable screw-cap closing the open end of said container.

2,640,489
MACHINE FOR CLEANING PAINTBRUSHES, INCLUDING LIQUID TANKS AND BRUSH HOLDERS THEREABOVE
Calvin E. Boland, Visalia, Calif.
Application February 27, 1951, Serial No. 213,011
4 Claims. (Cl. 134—86)



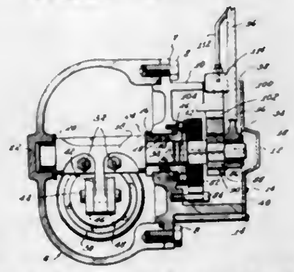
1. A paint brush cleaner comprising a tank for a quantity of solvent, a cross shaft, means turnably mounting the cross shaft in the tank, means to impart oscillating motion to the shaft, and a clamp unit on the shaft adapted to releasably secure the handle of a paint brush to said shaft with the bristles depending into the solvent in the tank; said clamp unit including an upstanding sleeve to receive the brush handle from below, a backing plate depending from the sleeve, and spring means positioned to engage and urge the handle into relative forceful abutment with said backing plate.

2,640,490
UMBRELLA
Ferdinand Kramer, Port Chester, N. Y., assignor to Fadex Foreign Trading Corporation, New York, N. Y., a corporation of New York
Application July 15, 1949, Serial No. 104,911
8 Claims. (Cl. 135—20)



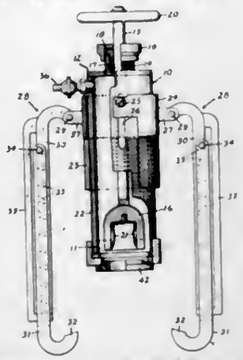
6. A collapsible umbrella comprising a stock and a rectangular sheet of material having two longitudinal folds and a series of transverse plaits extending from end to end of said sheet, the ends of said sheet being joined, and the plaited edges of said sheet being gathered together, one edge being secured to said stock and the other slidably mounted thereon.

2,640,491
VALVE
Donald Keith MacBain, Long Beach, Calif., assignor to Dr. Paul A. Dewhirst, Los Angeles, Calif.
Application January 7, 1950, Serial No. 137,356
5 Claims. (Cl. 137—75)



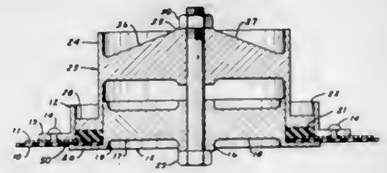
1. In a valve structure, a body having a valve seat, a valve head supporting shaft rotatably supported by said body, a valve head on said shaft and positioned in said casing to swing into engagement with said seat, an operating member rotatably mounted on said shaft, a shaft locking element having a fusible connection with said shaft, a readily releasable connection between said operating member and said locking element, a stop device with which the operating member is releasably engageable to hold the operating member in a position whereby the valve head will be held open, and a power load unit connected to said shaft and yieldably urging said shaft in a rotational direction tending to close said valve head against said seat.

2,640,492
DEVICE FOR TESTING FLUID PRESSURE LINES
Stanley J. Sawicki, East Hempstead, N. Y.
Application November 14, 1949, Serial No. 127,152
2 Claims. (Cl. 137—319)



1. In apparatus for testing fluid pressure lines, the combination of a tubular member having an opening at one end and being closed at its other end, socket wrench means disposed in said tubular member and having actuator means extending through said closed end of the tubular member, means for maintaining a fluidtight joint between said actuator means and the closed end of said tubular member, spring clip retaining means mounted in said socket wrench, valve means mounted on said tubular member and adapted to provide communication with the interior thereof, a pair of longitudinally extending arms mounted on said tubular member, each of said arms comprising one portion pivotally mounted with respect to said tubular member, another portion having an inwardly extending hook formed at one end thereof, and cooperating means on said portions for coupling them together at different locations with respect to each other so as to permit adjustment of the lengths of said arms within predetermined limits, and cooperating screw threaded means forming part of said tubular member and facilitating adjustment of the distance between said hooks and the opening in said tubular member.

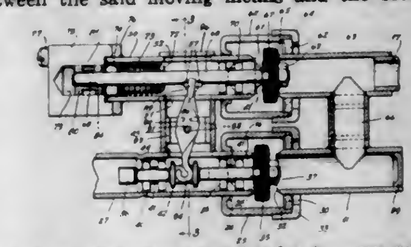
2,640,493
FITTING FOR FLEXIBLE FUEL CELLS
Mark F. Millard, Wichita, Kans., assignor to Boeing Airplane Company, Wichita, Kans., a corporation of Delaware
Application February 6, 1952, Serial No. 270,123
10 Claims. (Cl. 137—571)



1. A fitting for fluidtight attachment in a circular opening in a flexible wall of a container comprising: a pair of concentric tubes, the innermost tube projecting snugly through the wall opening and having an integral perpendicular annular flange seated flat against one surface of the margin of the opening, one end of the outer tube being positioned adjacent the opposite surface of said margin; said flange laterally bridging the space between the inner tube and the adjacent portion of the outer tube, said margin extending between the margin seated flange and the adjacent portion of the outer tube at the bottom of the annular groove formed between the two tubes; gasket material in said groove seated on said margin; a fitting member having a thick walled tubular rim telescopically seated in said groove on said gasket material; and means urging said rim toward said flange to compress the gasket material against the margin of the wall opening, the groove serving to confine said gasket material against cold flow due to pressure.

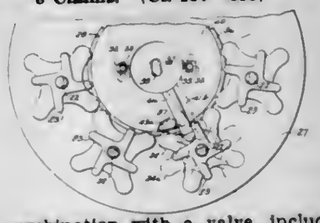
2,640,494
REVERSE CYCLE VALVE
Edward F. Kounovsky, St. Louis, Mo., assignor to Alco Valve Company, University City, Mo., a corporation of Missouri
Application January 9, 1947, Serial No. 720,956
11 Claims. (Cl. 137—601)

1. In a valve mechanism, a housing, a high pressure inlet therein, a low pressure outlet, a first work outlet, a second work outlet, a main control valve movable to selectively connect one of the work outlets with the low pressure outlet and to cut off the other from the low pressure outlet, a second valve, a pair of spaced valve seats therefor, said second valve being movable between the said valve seats to connect one of the work outlets with the inlet and to cut off the other work outlet from the inlet, means to move said main valve, and lost-motion connections between the said moving means and the second



valve, to cause said second valve to move when the main valve is moved.

2,640,495
ELECTROMAGNETICALLY CONTROLLED VALVE
Harry Baxter, Garretsville, Ohio
Application March 14, 1950, Serial No. 149,625
8 Claims. (Cl. 137—635)

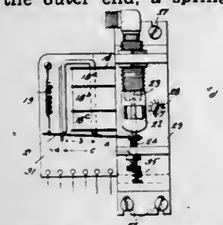


1. In combination with a valve, including a stem and a valve operating cam mounted thereon, an electromagnetic control device, comprising, a case member including means for supporting said valve stem; a rotor disc, rotatably mounted on said case member proximate the said cam; a selector plate, including an operating arm, slidably mounted on the said disc and movable axially relative thereto between an extended and a retracted position; spring means for normally biasing the said selector plate into its extended position, wherein the selector arm is out of alignment with the aforesaid cam and in non-cooperating position with reference to said cam; electromagnetic means mounted on the rotor disc, including an armature mounted on the selector plate, and operable when energized to draw the selector plate axially toward the rotor disc, against the biasing action of said spring means, into its retracted position; wherein the selector arm is in cooperable alignment with the aforesaid cam; and means for rotating the said rotor disc, thereby to rotate the said valve cam when the selector plate and arm are in their retracted co-operating position, and to pass the said cam by when the selector plate and arm are in their extended position.

2,640,496
PLURAL SOLENOID ELECTROMAGNETIC VALVE
Creedy C. Sheppard, Bergenfield, N. J.
Application December 8, 1948, Serial No. 64,139
2 Claims. (Cl. 137—727)

1. Electrically operated means for controlling leak off from a process control system comprising a vertically disposed chamber having an inlet at its top and an outlet aperture at its bottom, a needle valve under said chamber shiftable vertically into and out of said aperture, an electro-magnet disposed vertically adjacent one

side of said chamber and having upper and lower and intermediate positions provided with separate windings adapted to be independently energized, an armature bar extending horizontally under said electromagnet, said armature bar being pivotally mounted outwardly of the electromagnet and having its inner end extending under the chamber and carrying said needle valve, said armature being pivotally mounted in spaced relation to the outer end, a spring urging the



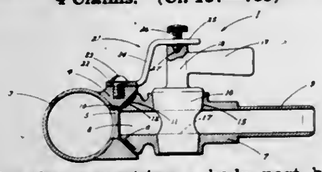
outer end of said armature upwardly and yieldably holding the armature away from the magnet at a downward incline towards its inner end, and an abutment under the inner end of the armature limiting downward movement of the armature and the needle valve and being shiftable vertically to adjusted positions.

2,640,497

VALVE FOR MILKING SYSTEMS

Robert E. Reeve, Tracy, Calif.

Application November 6, 1951, Serial No. 254,990
4 Claims. (Cl. 137—738)



1. A valve comprising a body part having a bore flared at one end to form a taper seat, an initially separate body part having an axial passage therethrough, a frusto-conical coupling head on one end of the initially separate body part adapted to engage in said seat with the passage in communication with the bore, means quick-releasable upon part-rotation of said initially separate body part securing the coupling head in said seat, said separate body part having a taper bore thereacross, a taper plug valve removably engaged in said taper bore, a longitudinally upwardly opening seat forming and locator notch on top of said first named body part, a longitudinally extending hold-down finger having its inner end engaged in locating relation in said notch, means securing said inner end of the hold-down finger in said notch, the finger thence projecting in overhanging relation to the taper plug valve, and a screw threaded downwardly through the finger and normally engaging the upper end of the valve in hold-down relation.

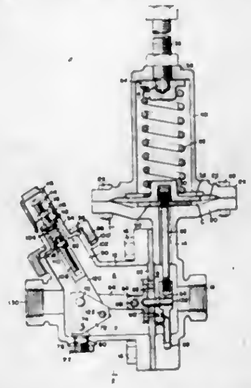
2,640,498

DIAPHRAGM ACTUATED BALANCED GATE TYPE PRESSURE REGULATOR

Harry G. Bissell, Lebanon, Ohio, assignor to Jordan Regulator Corporation, Lebanon, Ohio, a corporation of Ohio

Application October 19, 1949, Serial No. 122,315
5 Claims. (Cl. 137—758)

2. In combination with the sliding gate of a pressure reducing valve of the type which includes an orifice plate between adjacent high and low pressure chambers, wherein the gate slidably engages the orifice plate on the high pressure side thereof, and wherein gate actuating means are provided on the low pressure side of the orifice place, of means for selectively controlling the effective frictional seating load applied to the sliding gate by the pressure existing within



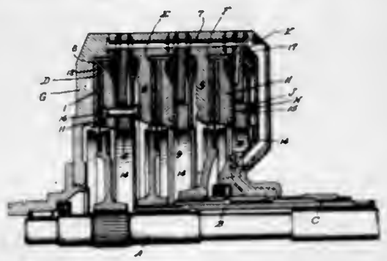
said high pressure chamber, said members comprising a pressure actuated member within the high pressure chamber, a link secured to and carried by said member, a link secured to and carried by said gate, a lever within and pivoted to the housing defining said high pressure chamber, and means independently and pivotally securing each of said links to said lever.

2,640,499

FLEXIBLE DIAPHRAGM FOR FLUID CLUTCHES

Victor K. Atkins, Seattle, Wash., assignor to Pacific Car and Foundry Company, Renton, Wash.

Application March 22, 1950, Serial No. 151,195
7 Claims. (Cl. 137—785)



1. In a fluid motor for use in a clutch assembly, the clutch assembly having a clutch plate and a backing plate, said fluid motor including an intermediate fixed wall, a resilient diaphragm arranged at each side of the fixed wall, said resilient diaphragms extending beyond the edge of said fixed wall, a ring-like body interposed between the projecting edges of said diaphragms, said diaphragms being fabricated from metallic sections and interposed rubber sections and being laterally shiftable with respect to the fixed wall upon the application of fluid pressure, a pressure plate, and means extending through a

marginal edge portion of the pressure plate and the projecting edges of said diaphragms and said ring-like body to secure the parts together.

2,640,500

CONSTRUCTION OF FLEXIBLE HOSE

Clyde M. Hamblin, Washington, D. C.

Application December 21, 1948, Serial No. 66,507
6 Claims. (Cl. 138—53)
(Granted under Title 35, U. S. Code (1952), sec. 266)



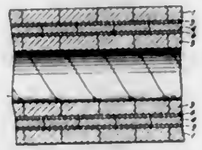
1. A hose comprising a strip of flexible fabric material wound in a helix forming a cylindrical tube, said strip comprising a plurality of turns, a forward edge and an after edge on each turn of said material, said edges positioned in overlapping relation with one another and having lapped portions substantially paralleling the surface of said tube, a coil of wire, and means securing said coil of wire to said lapped portions so as to form an endless seam which surrounds said wire and travels the length of said tube.

2,640,501

TUBE AND ITS MANUFACTURE

Thomas Robertson Scott and William Kirby Weston, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application February 27, 1948, Serial No. 11,588
In Great Britain December 24, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 24, 1966
7 Claims. (Cl. 138—56)



1. Process for manufacturing a flexible continuous moisture-proof composite tubular article that comprises helically winding strip material upon a support so that the edges of the strip abut to define a first tubular element, helically winding onto said first tubular element strip material comprising at least a coating of a readily fusible metal wound with abutting edges to define a second tubular element, thereafter applying to said second tubular element at least one overlying layer and then heating the readily fusible metal winding to cause consolidation thereof into an intermediate continuous moisture-proof layer.

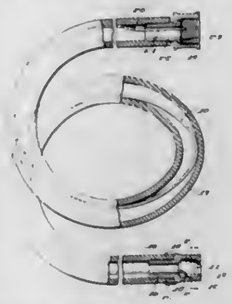
5. A flexible continuous moisture-proof composite tubular article that comprises an innermost layer of helically wound strip material arranged so that the edges thereof abut, an outer layer of helically wound strip material, and an intermediate layer of helically wound strip material arranged so that the edges thereof abut, said intermediate layer disposed between said innermost layer and said outer layer and having a coating of a readily fusible material consolidated with one of said other layers to form a continuous surface moisture-proof barrier, said coating having a lower fusion point than said strip materials.

2,640,502

KINK PREVENTING HOSE INSERT

Felix W. Powers, Arcadia, Calif.

Application February 1, 1950, Serial No. 141,711
1 Claim. (Cl. 138—61)



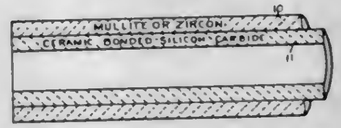
A male coupling element for a tubular member comprising a threaded shank portion of reduced diameter to receive the tubular member and an enlarged threaded coupling portion having an inner annular flange on the outer end thereof the junction of the two portions providing a shoulder for abutment with the end of the tubular member received on the reduced threaded shank portion, an annular recess in said enlarged portion of the same diameter as said reduced threaded shank portion, a spring wire adapted to extend through said male coupling into said tubular member, an offset portion at one end of the spring wire, a ring portion extending at right angles to the axis of the offset portion and on the outer end of the offset portion adapted to be received in the annular recess in the enlarged portion and having abutting engagement with the said annular recess and means for retaining the tubular member on said reduced portion.

2,640,503

REFRACTORY TUBE

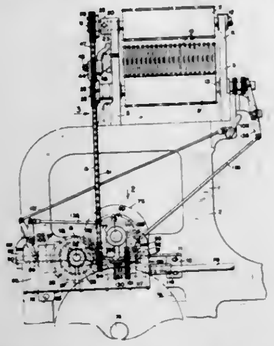
Lowell H. Milligan, Worcester, and Osgood J. Whittemore, Jr., Princeton, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application November 21, 1950, Serial No. 196,796
4 Claims. (Cl. 138—76)



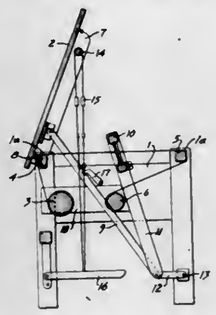
1. A refractory tube consisting of at least two portions concentrically related and integrally joined, one of said portions being inner of the other of said portions, one of said portions being of ceramic bonded silicon carbide, said ceramic bonded silicon carbide portion being at least 50% by weight silicon carbide, said other portion being at least 50% by weight silicate, said silicate being selected from the group consisting of mullite and zircon.

2,640,504
CHAIN DRIVE FOR LOOM SHEDDING MECHANISM
William A. Blanchard, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 23, 1950, Serial No. 186,461
25 Claims. (Cl. 139—1)



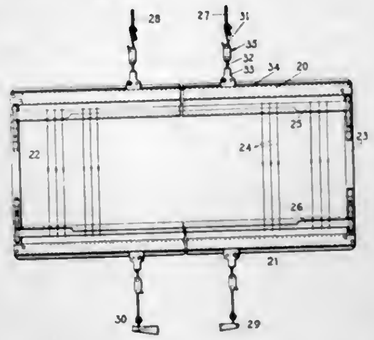
1. In shedding mechanism for a loom operating with vibrator gears, two cylinder gears to operate the vibrator gears, a driven sprocket wheel secured to each cylinder gear, a driving sprocket wheel driven by the loom, and an endless chain meshing with the sprocket wheels and effective when the driving sprocket wheel turns to rotate the driven sprocket wheels and their respective cylinder gears in opposite directions.

2,640,505
CONVERTIBLE LOOM
John Gerhard Emanuel Klaesson, Orebro, Sweden
Application January 21, 1949, Serial No. 71,780
In Sweden January 23, 1948
7 Claims. (Cl. 139—29)



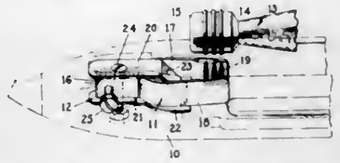
1. A loom, which is convertible into a table, comprising two side pieces, a number of loom beams arranged between said side pieces, a table top, pivot means pivotally mounting said table top mounted at the rear upper end of both side pieces, and an erected batten mounted within said side pieces, said batten being elevatable from a storage position, in which it is kept below the upper edges of said side pieces so as to permit said table top to rest thereon, into a working position.

2,640,506
HARNESS FRAME SUSPENDING DEVICE
Paul C. Consoletti, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application April 25, 1950, Serial No. 157,951
11 Claims. (Cl. 139—88)



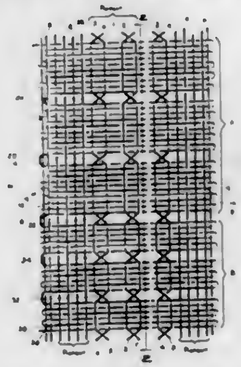
1. A suspending means for a loom harness frame having top and bottom rails and end struts, which comprises a looped connector attached to a rail of said frame, a suspending strap and a looped connector fixed to the end thereof, and an intermediate link comprising side plates and cross members extending between said plates and engaged by the looped connectors, the total thickness of the link being less than the thickness of the harness frame rail and the link being so disposed that its side plates are parallel to the length of the frame.

2,640,507
BOBBIN HOLDER
William Rickenback, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application December 30, 1950, Serial No. 203,646
8 Claims. (Cl. 139—207)



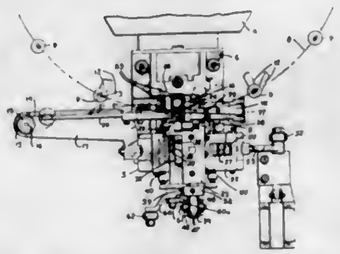
1. For a loom shuttle, a filling bobbin holder comprising spring gripping jaws and a spring cover and bobbin guide, said gripping jaws comprising opposed, resilient members formed unitarily with and comprising the extending ends of a relatively rigid, U-shaped supporting portion, said spring cover and bobbin guide comprising top and bottom plates for embracing the top and bottom edges of said U-shaped portion and an inclined bobbin guiding and interconnecting portion between the said plates, the area of the supporting portion of said top and bottom plates being of an extent substantially greater than the area of the contiguous surfaces of U-shaped portion of the gripping jaws thereby to be sustained by a relatively extensive area of the material of the shuttle within which it is employed, the said U-shaped portion of the gripping jaws having substantially parallel top and bottom edges, said top and bottom plates being spaced for contact with a part of the said top and bottom edges of the jaws, and the lower plate and lower edges of the jaws being in contact throughout that extent of the jaws which is coextensive with the non-flexing, U-shaped part thereof only.

2,640,508
ELASTIC FABRIC
Samuel F. Siciliano, Westerly, R. I., assignor to George C. Moore Company, Westerly, R. I., a corporation of Rhode Island
Application February 8, 1949, Serial No. 75,271
10 Claims. (Cl. 139—423)



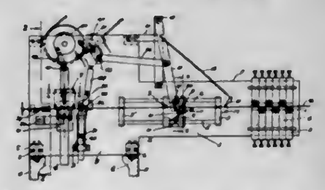
1. A two-ply leno fabric including elastic yarns in which the leno warps of the two plies respectively first lie in the face ply and the back ply of the fabric, and then shift to the other ply to lie in the back and face plies respectively.

2,640,509
FILAMENT MOUNTING APPARATUS
August E. Kulberg, Beverly, Roger M. Terry, Ipswich, and Samuel E. Swasey, Marblehead, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application March 11, 1949, Serial No. 80,826
4 Claims. (Cl. 140—71.6)



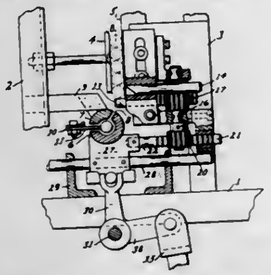
1. In combination with a carrier having a plurality of stem holding heads mounted thereon for carrying a stem, having a pair of lead wires depending therefrom, to a plurality of work stations, a filament mounting apparatus disposed at one of said work stations adjacent to the path of travel of said heads comprising: a slide; fixed means disposed adjacent to said slide for supporting a supply of filament wire; a pair of grippers mounted on said slide for holding taut an end of said filament wire; a wire cutter mounted on said slide adjacent to said grippers; means for reciprocating said slide to unwind filament wire from the supply thereof; means for reciprocating said slide transversely to the path of said first reciprocating motion thereof to carry the unwound filament wire into engagement with the lead wires of a stem disposed at the filament mounting station; means disposed adjacent to and in register with a stem holding head at the filament mounting station for securing the filament wire to the lead wires; and means for actuating said wire cutter to sever that portion of the filament wire which is attached to the lead wires from the supply thereof.

2,640,510
WIRE-FORMING MACHINE
Harry M. Young, Webster Groves, Mo.
Application August 28, 1948, Serial No. 46,677
6 Claims. (Cl. 140—82)



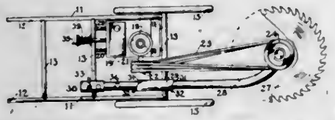
1. A machine for forming a piece of wire into a predetermined shape, which machine includes a frame, intermittent wire-feeding means operatively mounted on the frame for feeding the wire along a substantially straight path, cut-off means operatively mounted on the frame along said path and being adapted to cut off the wire into pieces of predetermined length, a stationary die mounted on the frame on one side of said path and having a recess of predetermined shape opening toward the path along which the wire moves when it is being intermittently fed by the feeding means, a sliding die reciprocably mounted on the frame and being initially positioned on the opposite side of said path with respect to the stationary die, said sliding die having a member adapted for movement across said path into the recess of the stationary die and being adapted to engage and force the central portion of the cut-off section of wire into said recess for bending it into conformity to the shape thereof, die reciprocating means operatively associated with the sliding die for shifting the die from initial position into wire-forming engagement within the stationary die and thereafter returning the sliding die to initial position, means pivotally mounted on the slide and being swingable about an axis transverse to the line of movement of the sliding die after the sliding die reaches the upper limit of its stroke and thereby bending the end portions of the wire out of the plane in which originally bent, and driving means operatively connected to the feeding means, cut-off means and die reciprocating means for operating the feeding means, cut-off means and sliding die in timed relation to each other.

2,640,511
MAGAZINE AND DELIVERY MECHANISM FOR BAR FEED MACHINES
Bernard C. Harney, Syracuse, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York
Original application July 8, 1948, Serial No. 37,646, now Patent No. 2,595,522, dated May 6, 1952. Divided and this application June 5, 1951, Serial No. 230,006
3 Claims. (Cl. 140—126.1)



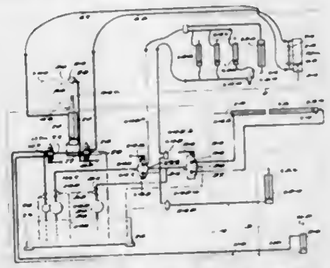
1. A magazine and delivery mechanism for bar feeds for metal working machines, said mechanism comprising the stock bar guide of a bar feed machine, said guide including a cradle section formed with a lengthwise slot and a closure section for the slot, an upright magazine for the stock bars, the closure section and the cradle section being normally in position to close the slot, one section being mounted to shift sidewise relatively to the other section and to the magazine out of and into position to open and receive a stock bar from the magazine and close the slot, and escapement mechanism to deliver the stock bars one by one from the magazine to the open slot during the shifting of the shiftable section in one direction and to close the slot during return shifting of the shiftable section in the opposite direction, said escapement mechanism comprising an abutment bar and a cut-off bar movable transversely of the magazine and of the stock bars therein, the abutment and cut-off bars being reciprocally movable and formed with racks on opposing sides thereof, an upright shaft having a pinion meshing on the opposite sides with said racks, a carriage for the shiftable section, means for actuating the carriage, and motion transmitting means between the carriage and the shaft and operable upon movement of the carriage to effect oscillation of said shaft.

2,640,512
BELT DRIVE
Harold R. Pomeroy, Akron, Ohio, assignor to Kut-Kwick Tool Corp., Brunswick, Ga., a corporation of Georgia
Application October 29, 1947, Serial No. 782,727
4 Claims. (Cl. 143—43)



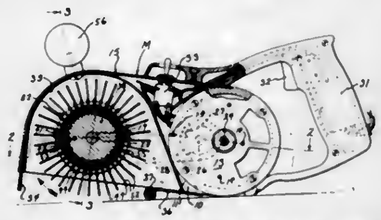
3. In combination, a driving pulley and a driven pulley, belt means connecting said driving pulley and said driven pulley, motive power means for driving said driving pulley, said motive power means being mounted for movement toward or away from the driven pulley, means releasable by movement of said motive power means away from said driven pulley for rigidly holding said motive power means from movement toward said driven pulley, and resilient means for urging said motive power means away from said driven pulley and against the tension in said belt means.

2,640,513
HYDRAULICALLY ACTUATED AUXILIARY ASSEMBLY FOR SAWMILLS
William H. Watson and Robert L. Nelson, Corinth, Miss., assignors to Corinth Machinery Co., Corinth, Miss., a corporation of Mississippi
Application August 1, 1947, Serial No. 765,500
17 Claims. (Cl. 143—108)



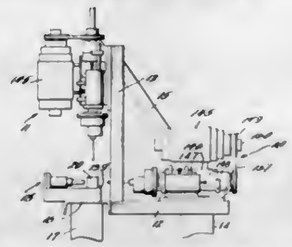
1. In a sawmill, in combination with a rotary shaft having a saw mounted thereon, a carriage feed works comprising a hydraulic cylinder and piston device adapted to be mounted on a stationary track frame for moving a carriage thereon, a closed fluid system for supplying fluid to opposite ends of said cylinder and including a rotary pump, a driving connection from the saw shaft to said pump whereby the pump is driven at a speed proportionate to the speed of said saw shaft, and a manually controlled valve for regulating the flow of fluid from said pump to opposite ends of said cylinder.

2,640,514
BUTCHER BLOCK REFINISHING MACHINE
Fred E. Broberg, Racine, Wis.
Application July 10, 1950, Serial No. 172,913
1 Claim. (Cl. 144—2)



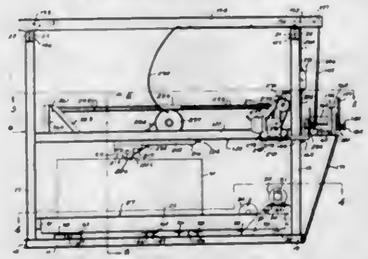
A portable refinishing and scraping machine comprising a housing including a pair of side plates, a comb cylinder embodying a hub, a sectional shaft having a portion thereof carried by the hub and another portion carried by one of the side plates, means detachably connecting the sections together for driving relation, a motor mounted between said plates and means operatively connecting the motor to the shaft section carried by one of the side plates, and a bearing screw carried by the other side plate and threaded into the hub shaft section.

2,640,515
BORING OR DRILLING MACHINE AND WORK HOLDING CLAMP
Fred I. Johnson, Sheboygan, Wis., assignor to Reiss Manufacturing Corporation, Wilmington, Del., a corporation of Delaware
Application April 14, 1948, Serial No. 20,924
7 Claims. (Cl. 144—92)



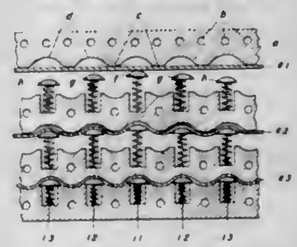
1. A boring or drilling machine comprising a drill head, a rotatable drill actuating shaft connected to the head, a non-rotatable, reciprocable sleeve surrounding the shaft connected to the head, a cylinder through which the sleeve extends, a piston in the cylinder operatively connected to the sleeve to advance and retract the head, a combined valve housing and guide block secured to said cylinder, a shiftable valve in said housing for controlling the delivery and escape fluid to and from both ends of the cylinder alternately, fluid pressure means for shifting the valve to the position to advance the piston and said head, a reciprocable guide rod rigidly connected to the head for movement therewith and slidably disposed in said guide block to restrain said head against rotation, and means carried by the guide rod for engaging and shifting the valve to the other position after a predetermined advance of the head and the rod.

2,640,516
BARK-REMOVING CUTTER RECIPROCABLE OVER STEP-BY-STEP ROTATABLE LOG
Price Wilson, Lexington, N. C., assignor of one-half to Linwood Manufacturing Co., Linwood, N. C., a corporation of North Carolina
Application April 16, 1951, Serial No. 221,171
10 Claims. (Cl. 144—208)



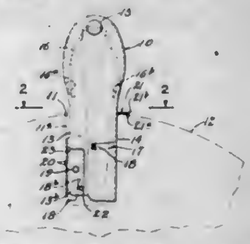
1. Apparatus for removing stock from the upper surface of a workpiece comprising an elongated support for the workpiece, means for pivotally mounting the support for the work piece at a point substantially midway between its ends, means connected to one end of the support for swinging the support on its pivot, a vertically movable frame spaced above the support, a driven rotatable cutting means carried by the vertically movable frame, means for raising and lowering the vertically movable frame so as to position the cutting means for removing the desired depth of stock from the upper surface of the workpiece and means for moving the cutting means longitudinally of the workpiece for removing the stock therefrom.

2,640,517
APPARATUS FOR MANUFACTURE OF CORRUGATED PLYWOOD
Ruben de Mello, Sao Paulo, Brazil
Application December 29, 1950, Serial No. 203,251
In Brazil November 13, 1950
4 Claims. (Cl. 144—283)



1. An apparatus for the manufacture of corrugated plywood comprising undulated corrugating platens having heating means therein, said corrugated platens interfitting each other to shape a plurality of glue-coated wood ply sheets into corrugated form, a plurality of detachable separate nodal bars spaced on one said platen and being extensible from the main body of said platen, individual spring pressing members for each said separate nodal bar, each of said spring pressing members being capable of separately and independently pressing the nodal portion of the corresponding bar to the other of said shaping platens to provide for the adjustment of the platen pressure along the edges of the glue-coated wood ply sheets formed into corrugated shape.

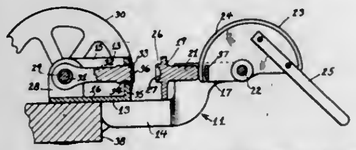
2,640,518
ROUGHENING TOOL FOR WALLS OF CYLINDRICAL FINGER-GRIPPING HOLES OF BOWLING BALLS
Fred W. Berghorn, Rutherford, N. J.
Application August 24, 1949, Serial No. 112,118
3 Claims. (Cl. 145—114)



1. A roughening tool for walls of cylindrical finger-gripping holes of bowling balls embody-

ing, in combination, an elongated blade-mounting housing comprising two parts pivotally connected together at their upper ends to form a handle and having at the lower end of one of said two parts a blade member provided with wall-roughening teeth at one edge, pivot means for mounting said blade member to project outwardly from said housing and to cause the blade edge having said wall-roughening teeth to extend in a plane parallel with one edge of the housing, said housing having in the other of said two parts an integral blade-guiding portion projecting in a direction opposite to said blade and provided with a blunt guiding surface extending in a direction parallel with said blade member, an expansion spring mounted in said housing for normally moving the two parts thereof away from each other, and stop means for limiting said spring-actuated movement, whereby said parts are manually contractible and are adapted upon said spring expansion to cause contact of said toothed edge of the blade with a wall-surface portion of a hole at one side of the axis of the casing and to cause contact of said blunt guiding surface of the said housing with a wall portion of the hole at the opposite side of said axis thereof.

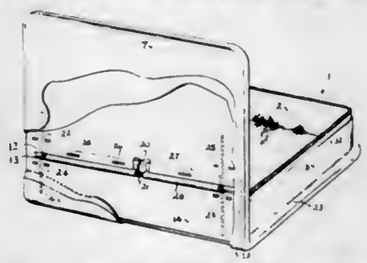
2,640,519
NUT-CRACKING MACHINE
Eugene P. Kennedy, Tulsa, Okla.
Application February 6, 1950, Serial No. 142,573
5 Claims. (Cl. 146—12)



1. A nut cracking machine comprising a frame, a shaft journalled in said frame, an eccentric carried by said shaft, a plunger journalled on said eccentric, means on the frame supporting said plunger for reciprocating and oscillating movement, an anvil, means on said frame supporting said anvil for sliding movement substantially in the axial direction of said plunger, the free end of the plunger extending toward said anvil, and a manually operated cam rotatably mounted in said frame for rotation in the plane of said plunger and around an axis normal to that of the anvil and engaging the anvil at its end opposite said plunger.

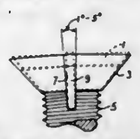
2,640,520
TOILET CASE
George Miller, Wellesley, and Emil K. Renz, Dedham, Mass., assignors to Knight Leather Products, Inc., Boston, Mass., a corporation of Massachusetts
Application January 24, 1952, Serial No. 267,966
6 Claims. (Cl. 150—34)

1. A toilet case having a bottom wall member, a back wall member, flexible side walls adjoining the back wall member and a front wall forming the walls surrounding the bottom wall member, and a cover member having a flexible fabric hinging connection with the back wall member, said back wall member and said cover member having laminated flexible stiffening sheets, torsional spring means having a torsional stem positioned along the hinging connection with arms secured respectively to said cover member and said back wall member, said torsional spring means being untensioned when the cover is in an open position



and tensioned when in a closed position, and means for holding said cover in a closed position.

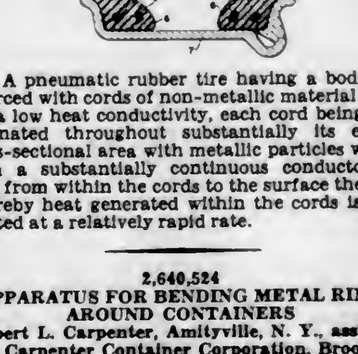
2,640,521
SPLIT HEAD LOCKING SCREW
Stephen V. Zavoico, Lake Forest, Ill., assignor to The Eagle Lock Company, Terryville, Conn., a corporation of Connecticut
Application June 1, 1949, Serial No. 96,525
2 Claims. (Cl. 151—14)



2. A screw having a tapered head with angled side walls, a driving groove and a threaded body, a slot formed in the head transversely to the driving groove and extending into the body, the parts of the head at opposite sides of the slot being bent outwardly to thereby normally diverge the walls of the slot towards the top of the head and dispose the angular side walls of the head at a greater angle to the longitudinal axis of the head in the direction transversely of the slot and at a lesser angle in the direction parallel to the slot whereby, when the screw head is forced into contact with the bottom of a countersunk recess conforming to the lesser angle of the head side walls, the opposite parts of the head will be forced towards each other and cause closing of the slot and the portions of the side walls normally at a greater angle will apply a yielding pressure against the tapered bottom of the recess, and a plastic material contained in the slot and adapted to squeeze out between the angled head wall and the bottom of the recess, as the slot is closed, to provide a seal around the said head.

2,640,522
TRACTION ATTACHMENT FOR AUTOMOBILE WHEELS
Charles A. Schroen, Durango, Colo.
Application September 20, 1950, Serial No. 185,858
2 Claims. (Cl. 152—228)

1. In a traction attachment for an automobile wheel provided with a tire, a pair of relatively adjustable elongated members, a transversely disposed rectangular head plate at the outer end of each of said members, each plate being provided with a pair of outer transversely spaced and oppositely angled straight slots and a pair of inner companion arcuate slots, a pair of tire engaging hooks having inwardly extending elongated arms projecting angularly outward from the opposite ends of each head plate, a pair of guide pins carried by each of the arms and engaged in the companion of the said straight and arcuate slots, and means for effecting the end-



wise adjustment of the members to engage the hooks with or to release the same from the tire, said hooks being outwardly ribbed to increase the traction effect of the same.

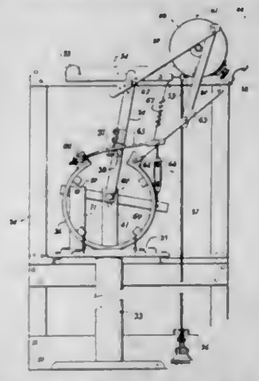
2,640,523
TIRE CONSTRUCTION
Henry F. Palmer, Akron, Ohio
Application August 15, 1950, Serial No. 179,490
4 Claims. (Cl. 152—356)

1. A pneumatic rubber tire having a body reinforced with cords of non-metallic material having a low heat conductivity, each cord being impregnated throughout substantially its entire cross-sectional area with metallic particles which form a substantially continuous conductor of heat from within the cords to the surface thereof, whereby heat generated within the cords is dissipated at a relatively rapid rate.

2,640,524
APPARATUS FOR BENDING METAL RIMS AROUND CONTAINERS
Herbert L. Carpenter, Amityville, N. Y., assignor to Carpenter Container Corporation, Brooklyn, N. Y., a corporation of Delaware
Application June 13, 1947, Serial No. 754,542
2 Claims. (Cl. 153—1)

1. Apparatus for use in tightening and securing a split metal rim around a container after it has been loosely assembled therearound with the ends in overlapping relationship and for thereafter bringing the overlapping ends of the rim into contact and securing a metal fastening lug in position comprising: a unitary pressure

ring made of relatively stiff spring metal and being split at one point in its circumference so as to have two free ends which are spaced apart so as to be expandable into a size to freely accommodate the container with the rim loosely assembled therearound and contractable to tightly embrace the container and rim; operating means for the pressure ring including a lever pivotally connected at one end adjacent one free end of the pressure ring and a link connected between the other free end of the pressure ring and an intermediate point of the lever so that pivoting of the lever in one direction causes the free ends to separate and the ring to expand and pivoting of the lever in the other direction draws



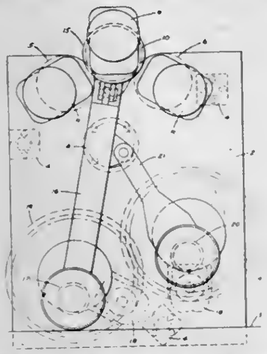
the two free ends towards each other and causes the ring to contact, with a maximum amount of movement adjacent the free ends and progressively descreasing towards the diametrically opposite side thereof; and a second lever pivotally mounted adjacent said pressure ring and having a pressure shoe and a pressure roller mounted thereon at a point between the free ends of the pressure ring and being shiftable with the lever through a fixed path between the two free ends of the pressure ring, said pressure shoe being engageable with overlapped ends of the rim to press them into contact and said pressure roller being engageable with a fastening lug for securing it in position.

2,640,525
BENDING ROLL
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Longview, Tex., a corporation of California
Application April 2, 1949, Serial No. 85,127
17 Claims. (Cl. 153—54)

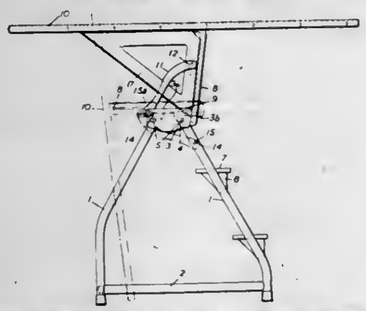
1. A bending roll comprising end frames spaced apart by rigid struts, bearings in the end frames supporting lower rolls which are rotatable in the bearings but otherwise fixed relative to the frame, an upper roll journalled in pivot arms located beyond each end frame, said pivot arms being connected at their lower ends to a crank, said crank supplying reciprocating motion to said pivot arms and said top roll, a connecting rod connecting a second crank with said pivot arms, said second crank supplying second reciprocating motion to the pivot arms and to the top roll, said second reciprocating motion being in a different direction than the first motion.

17. A bending roll comprising, a frame, horizontally spaced lower rolls supported at their ends by said frame for rotation about fixed parallel

axes, an upper roll, a pair of eccentrics rotatably mounted at each end of said frame, means at each end of said frame supported by the corresponding pair of eccentrics and rotatably supporting the corresponding end of said upper roll, and means connecting corresponding eccentrics of said pairs for rotation in unison, said first-named means being so constructed and arranged that rotation of one pair of said connected eccentrics causes said upper roll to move substantially vertically and rotation of the other pair of connected eccentrics causes said upper roll to move substantially horizontally while joint rotation of said connected pairs of eccentrics causes said upper roll to move in a direction which is a resultant of the individual movements imparted thereto by each of said connected pairs of eccentrics, all with said upper roll remaining parallel to said lower rolls at all times.



2,640,526
CHAIR CONVERTIBLE TO IRONING BOARD
Robert Charles Lightbourne, Birmingham, England
Application September 26, 1949, Serial No. 117,873
In Great Britain September 27, 1948
5 Claims. (Cl. 155—43)



1. An article of furniture comprising a base frame formed of two connected side frames each comprising outwardly and downwardly splayed tubes and a top bracket to which the upper ends of the tubes are fixed, a structure formed of two members constituting respectively a seat and an ironing board arranged at an angle to one another and with the seat pivoted on said top brackets so that it can be turned into position with either the seat or ironing board in a horizontal position, abutment faces on the top and front ends of the said brackets against one of which said seat is supported when in either position, and a catch device for holding the said structure constituting the combined seat and ironing board in either position.

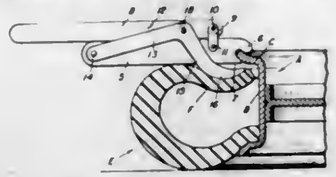
2,640,527
KNOCKDOWN BENT WOOD FURNITURE
Norman M. Kreizelman, Merrick, N. Y.
Application May 4, 1951, Serial No. 224,621
3 Claims. (Cl. 155—193)



3. A knock down chair frame which comprises two crossed U-shaped integral members of molded plywood, each having a U-shaped longitudinal axis, each of said U-shaped members consisting of more than three plies of wood all of which are molded together with the plies flatwise and parallel with respect to each other and with respect to the U-shaped longitudinal axis of said member and with the grain of each of the plies of each U-shaped member lying lengthwise of said member, each of said U-shaped members having a straight flat intermediate portion and a curved portion at each end of said intermediate portion and a straight tapered portion depending from each of said curved portions, said depending straight portions forming four outwardly slanting legs, the intermediate portion of one of said U-shaped members having a rabbet in the lower surface of its said intermediate portion and the other of said U-shaped members having an oppositely disposed rabbet in the upper surface of its said intermediate portion, said rabbets being fitted together so that said straight intermediate portions form an X-shaped platform having flush upper and lower surfaces which platform is supported by said four legs, all of the plies of said straight intermediate portions lying parallel with said surfaces, another integral member of plywood molded flatwise with respect to the plies thereof and having a flat portion engaging the lower surface of said platform and providing a tie member, and having an upright portion forming a mount for a back-rest piece, removable screw means extending through the flat portion of said tie member into said crossed straight intermediate portions of said U-shaped members and holding said three members rigidly secured together to prevent wobbling of said U-shaped members, a seat piece resting upon and removably secured to said platform and a back-rest piece removably secured to said mount.

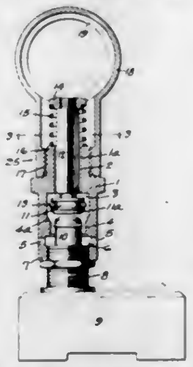
2,640,528
DISLODGING TOOL FOR PNEUMATIC TIRES
Smith C. Caldwell, Livingston, Mont.
Application August 30, 1948, Serial No. 46,788
1 Claim. (Cl. 157—1.17)

A dislodging tool for pneumatic tires comprising a rigid linearly straight one-piece bar bifurcated and providing furcations defining rim-engaging jaws, a single straight lever extending along one longitudinal edge of and in a plane with said bar, a pair of links pivotally connecting one end of the lever with an intermediate portion of the bar at a point spaced from said jaws, and a pair of duplicate but individual L-shaped pressure and thrust exerting levers arranged on the respective opposite sides of said bar and straight lever, the free end portions of the long arms of said L-shaped levers being pivotally connected



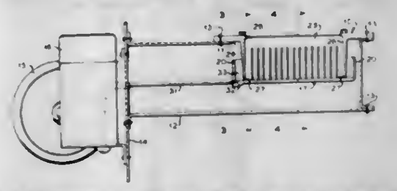
to the end of said bar which is opposite to the bifurcated end of the latter and the junctural portions of the respective long and short arms of said L-shaped levers being pivotally connected with the intermediate portion of said straight lever and said short arms obliquely straddling said bar with their free end portions extending beyond the other longitudinal edge of said bar, said free end portions of the short arms being wedge-shaped and curved to extend toward said rim-engaging jaws of the bar.

2,640,529
AUTOMATIC LOW PRESSURE VENTING AND SIGNALING CHECK VALVE FOR FUEL TANK PRESSURIZING SYSTEMS
William F. MacGlashan, Jr., Alhambra, Calif., assignor to the United States of America as represented by the Secretary of the Army
Application August 1, 1950, Serial No. 177,056
4 Claims. (Cl. 158—36.5)



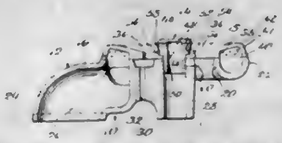
4. A system for pneumatically pressurizing a fuel tank comprising, a high pressure air tank, a fuel tank, a conduit connecting said fuel tank and said air tank, a pressure regulator interposed in said conduit adjacent said air tank, a flow inhibiting diaphragm in said conduit adjacent said fuel tank rupturable at a predetermined high pressure, and a differential pressure responsive automatic venting and air flow control valve in said conduit intermediate said pressure regulator and said diaphragm, said valve comprising an elongated housing having one end communicating with said conduit, and the other end open to atmosphere, a valve member in said housing movable from first position to vent said conduit to second position closing said end open to atmosphere, resilient means biasing said valve member into open position below said predetermined high pressure, said valve member movable to closed position in response to pressure above said predetermined high pressure, whereby said diaphragm is ruptured.

2,640,530
POT TYPE BURNER FOR LIQUID FUEL
William C. Roberts, Detroit, Mich., assignor to Bone Tool & Gauge Company, Detroit, Mich., a corporation of Michigan
Application February 12, 1948, Serial No. 7,776
7 Claims. (Cl. 158—91)



3. A burner for liquid fuel comprising a receptacle having a relatively flat inner bottom surface and an outer wall, a fuel inlet in said outer wall, a combustion chamber within said receptacle defined by an inner side wall extending above said outer wall the lower edge of which abuts said bottom surface, a portion of said side wall having apertures open to said bottom surface and a portion of said side wall adjacent said fuel inlet being imperforate whereby said fuel inlet is shielded from said combustion chamber thus preventing the formation of carbon deposits in said inlet, said fuel being introduced to said combustion chamber in a relatively thin film through said apertures and an air inlet to the space between said inner and outer walls.

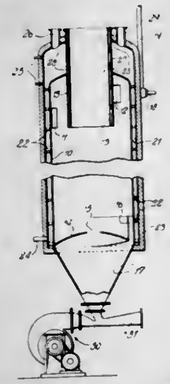
2,640,531
MULTIPLE GAS BURNER HEAD
Charles C. Lamar, Chicago, Ill., assignor of one-fourth to Philip S. Harper and one-fourth to Carolyn L. Harper, both of Chicago, Ill., and one-fourth to Harris Trust and Savings Bank, Chicago, Ill., a corporation of Illinois, as trustee for The Philip S. Harper Trust, and one-fourth to said Harris Trust and Savings Bank as trustee for The Carolyn L. Harper Trust
Application June 9, 1948, Serial No. 31,960
11 Claims. (Cl. 158—116)



8. A gas burner including separable upper and lower burner defining elements, the upper of said elements having a series of angularly spaced apart generally radial outwardly directed gas discharge ports, readily detachable means for detachably securing said elements whereby they can be separated, said elements having adjacent surfaces located at the line of separation of said elements and with outer portions at the exterior

of said elements spaced from each other so as to define a narrow continuous slot around the outside of the burner, said surfaces also being located below and in proximity to said radial ports so that said slot constitutes an ignition slot below and in ignition relationship to said ports for igniting gas issuing from said ports, said surfaces being also so located that said slot opens in a direction in the range between the vertically upward and horizontally outward, and means including a gas supply chamber communicating with said ports and slot for supplying gas to said ports and to said slot.

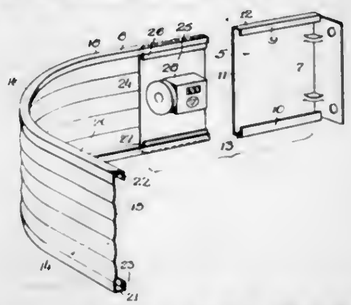
2,640,532
REACTION FURNACE AND EVAPORATOR
William Spencer Bowen, Westfield, N. J., and John E. Viscardi, New York, N. Y.
Application October 8, 1949, Serial No. 120,370
2 Claims. (Cl. 159—4)



1. In a cyclone furnace, in combination, a vertical axis combustion chamber having a substantially circular cross section, fuel injection means for establishing a descending flame vortex within the chamber, material injection means for establishing a descending vortex of material to be treated, said flame and material vortices moving in the same angular direction, an axially disposed flue at the upper end of the chamber, a peripherally disposed skimming slot at the lower end of the chamber, a receptacle disposed beneath said combustion chamber adapted to receive the discharge from said skimming slot, a roof-portion for said receptacle having an opening communicating with the lower end of the combustion chamber on the axis thereof to permit a flow of material from said receptacle upwardly into the low static head created along the axis of said chamber by said vortices.

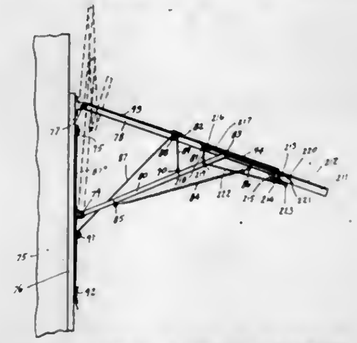
2,640,533
SUPPORT FOR A CORNICE AND VENETIAN BLIND
Béla B. Junkunc, Chicago, Ill., assignor to Béla B. Junkunc, Alexander Junkunc, Sr., Alexander Junkunc, Jr., and Joseph G. Junkunc, doing business as J & J Tool and Machine Co., Chicago, Ill., a partnership
Application October 11, 1949, Serial No. 120,774
1 Claim. (Cl. 160—34)

A support for a Venetian blind tilt rail having a cord lock swiveled at one end thereof and a key projecting from the other end thereof, a plate having means for engaging said cord lock to support one end of said tilt rail, a second plate having rigidly secured thereto means for engaging said key to support the opposite end of said tilt



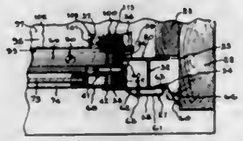
rail, a cornice having opposing end portions, said end portions having opposing flanges extending from the top and bottom edges thereof for supporting said plates in opposed parallel relationship, and a pair of brackets for supporting opposite end portions of said cornice.

2,640,534
COLLAPSIBLE SUPPORTING FRAME
Fredrick W. Coffing, Danville, Ill.
Application May 12, 1949, Serial No. 92,844
3 Claims. (Cl. 160—62)



1. In combination, a pair of collapsible frame members hingedly connected together at adjacent ends for substantial longitudinal alignment or jackknifing collapsed disposition, a support for said members, one of said members having its other end pivoted to said support in a fixed position, the other said member having a free end, a rigid brace having one end pivoted on said support at a second fixed position in spaced relation to the first mentioned fixed position and its other end pivoted to the said other member between the ends thereof, a control cable having one end connected to said brace and movably supported at the pivot between adjacent ends of said frame members, said cable being directed therefrom toward the second mentioned fixed position, and biasing means connecting the said other frame member between its ends with said brace and tending to urge the outer end portion of said other frame member toward said brace and said second fixed position.

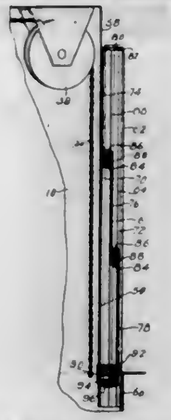
2,640,535
TRIPLE SLIDING STORM WINDOW UNIT
Louis J. Milone, Livingston, N. J., assignor to The Eagle-Picher Company, Cincinnati, Ohio, a corporation of Ohio
Application June 29, 1950, Serial No. 171,054
15 Claims. (Cl. 160—182)



1. A weather sealed storm window unit having a pair of vertically slidable storm sashes and a screen sash adapted to be installed in weather sealed engagement in a standard window opening comprising, a storm sash frame having side and end members formed of extruded metal sections, the side members being configurated to provide respective channels, the said channels having their open sides facing one another and having spaced sides flanges adapted to confine slidably the said pair of storm sashes, runner strips formed of resilient sheet metal seated within the said channels, each runner strip being configurated in cross section to provide an intermediate wall of looped configuration in cross section, the walls of said loop being adapted to expand outwardly in opposite directions toward the side flanges to provide a controlled pressure engagement against the edge of the sashes to force the sashes outwardly against the side flanges of the channels and thereby produce a weather seal, a screen sash retaining flange extending outwardly from the side flanges in opposite directions, a screen sash having retaining clips engaged over the edge of the screen sash flanges, adaptor strips formed of resilient sheet metal secured to the storm sash frame side members and having extended marginal edges engaged in weather sealing contact with the surface of the standard window opening, and fastening means securing the said marginal edges to the window opening to support the storm window frame rigidly within the opening.

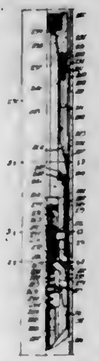
2,640,536
DISHWASHING MACHINE WITH VERTICALLY MOVABLE DOOR
Charles R. Lewis, Hartford, and Robert J. Taggart, Columbia, Conn., assignors to Colt's Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application May 11, 1949, Serial No. 92,558
11 Claims. (Cl. 160—189)

1. For use in a dishwashing machine, the combination of a housing provided with vertical side walls and having at least one lateral side wall opening for the passage of dishes, vertical guides located at the sides of the said housing opening, each guide comprising a vertical member having at least one vertical panel guiding groove therein and also having two longitudinal notches at its sides and each guide also comprising a vertical U-shaped member partly surrounding the first said vertical member and cooperating with the said notches to form two other vertical panel guiding grooves, a plurality of vertically movable door panels for closing the said housing opening, the edge portions of the panels being guided by the guiding elements of the corresponding pairs and the said panels overlapping each other when in their lower positions, interengageable elements in fixed relationship to the housing and on the upper panel adapted for limiting downward movement of the said upper panel, interengageable elements on each two immediately adjacent panels adapted for limiting downward movement of the lower of the said panels with respect to



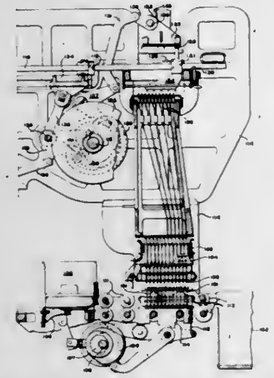
the upper of the said panels, manually operable mechanism connected with the lower panel for raising it, and an abutment on the lower panel for engaging the said other panels successively to raise them when the lower panel is raised.

2,640,537
INSIDE PIPE CUTTER
Charles R. Edwards, deceased, late of Houston, Tex., by Frances Robertha Edwards, executrix, Houston, Tex.
Application June 11, 1945, Serial No. 598,810, now Patent No. 2,572,997, dated October 30, 1951, which is a division of application Serial No. 334,947, May 13, 1940, now Patent No. 2,394,759, dated February 12, 1946. Divided and this application November 27, 1950, Serial No. 197,661
4 Claims. (Cl. 164—0.5)



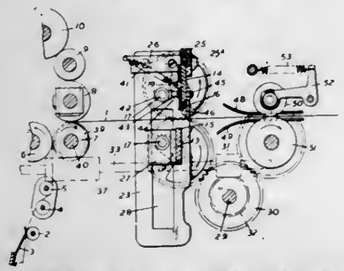
1. An inside pipe cutting tool comprising an inner mandrel, a sleeve surrounding a part of said mandrel, a pipe gripping means surrounding a part of said sleeve and pipe cutting means; said pipe cutting means being operable by fluid contained in said mandrel, and including a piston mounted in an enlarged bore of said mandrel.

2,640,538
CONSECUTIVE NUMERAL PUNCHING MECHANISM
Alexander G. Duff, Toronto, Ontario, Canada, assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application May 24, 1950, Serial No. 163,853
3 Claims. (Cl. 164—111)



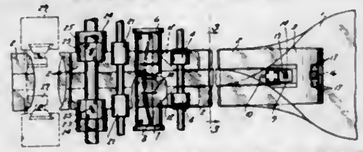
1. In a punched card numbering machine, a punch mechanism, means for controlling said punch mechanism to perforate cards seriatim in a code representative of consecutive numbers, comprising a plurality of spiral sectors, a spur gear attached to each spiral sector, an idler gear for each of said sector gears, a driving gear for each of said idler gears, differential means for actuating said driving gears, means actuable by said punch mechanism for actuating said differential means, and manually operable means for selectively pre-positioning said spiral sectors.

2,640,539
APPARATUS FOR CUTTING LENGTHS FROM A WEB OF PAPER, CARDBOARD OR SIMILAR MATERIAL
Ronald Newman Piper, Epsom, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company
Application July 12, 1950, Serial No. 173,266
In Great Britain July 26, 1949
5 Claims. (Cl. 164—68)



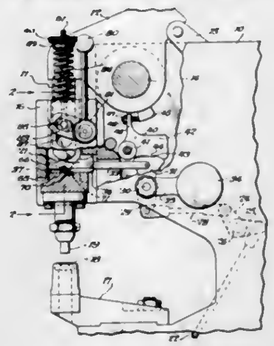
1. Apparatus for cutting lengths from a web of paper, cardboard, or similar material, comprising the combination with a positively rotated feed roller to feed a web continuously and knife carriers mounted for rotation in opposite directions, of knives supported for rotary movement with said carriers at the angular velocity of said feed roller, a pair of slotted plates each pivotally supported, a pair of axially aligned cranks, a knife carrier for supporting one of said knives between said plates, and a pair of blocks acting as carriers for the other of said knives, each of said blocks being pivotally mounted on one of the pair of axially aligned cranks and slidable in the slot of one of said plates for maintaining the knives in alignment during rotation thereof, the radius of the path through which the extremity of each knife passes being greater than the radius of the feed roller so that during a cutting operation the knives have a component of movement in the direction of movement of the web and move at an average speed equal to or slightly less than the linear speed of the web, and means for maintaining the cutting elements substantially in parallel planes at all times during rotation thereof.

2,640,540
CUTTING SHOE FOR BAGMAKING MACHINES
Delmar Stange, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri
Application April 13, 1951, Serial No. 220,800
5 Claims. (Cl. 164—68)



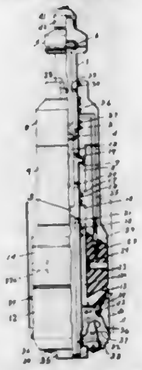
2. A cutting shoe adapted to be mounted within a flat tube of bag-forming material fed between cooperating upper and lower knife equipped cutting rolls, said shoe comprising a pair of spaced upper and lower anvil elements each cooperating with an adjacent one of said cutting rolls, and a compressible member between said anvil elements biasing said elements against knife imparted movements toward each other.

2,640,541
POWER STOP DEVICE FOR POWER PRESSES
Arthur T. Yates, West Seneca, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y.
Application March 15, 1950, Serial No. 149,853
6 Claims. (Cl. 164—104)



1. In a power press having a reciprocatory ram movable in an up and down direction, a tool carrying plunger, a block movable into and out of an operative position between a part of said ram and a part of said plunger, and mechanism controlled by the operator for moving said block into operative position, that improvement which includes a pivoted stop member biased to swing into a position to prevent movement of said mechanism to move said block into operative position, and a part connected with said ram and movable into engagement with said stop member for swinging the same out of its movement preventing position when said ram is near the upper end of its path of movement.

2,640,542
SIDEWALL SAMPLE TAKING DEVICE
Luther E. Brown, Gregton, and Ollin W. Williams, Houston, Tex.
Application September 11, 1947, Serial No. 773,466
7 Claims. (Cl. 166—1)



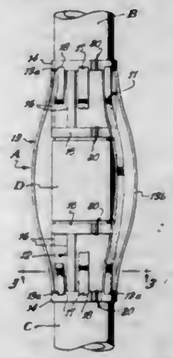
1. A testing tool for recovering the fluid content of an earth stratum from the side wall of a bore hole comprising, a stem, body members on the stem and movable longitudinally relative to each other, a sleeve on one of said members adaped to be telescopingly received in the other of said members, a cylindrical packer between said members and surrounding the sleeve, said packer being expansible by endwise compressive forces, said stem being movable longitudinally through said members and packer, a sample receiving chamber on the tool, said members being shaped to form with said stem a high pressure and a low pressure chamber, the inner walls of said pressure chambers being formed by the outer wall of the stem, said pressure chambers controlling movement of said body members towards each other to expand said packer, said high pressure chamber being between said body members, said low pressure chamber being within an uppermost of said body members, said packer and said other of said members having an inlet channel leading from outside the packer, said stem having a port communicating with said sample receiving chamber and positioned to move out of communication with said inlet channel upon movement of the stem to one position and to move into communication with said inlet channel upon movement of the stem to another position, said stem also having a port arranged to communicate the high pressure chamber with the well bore outside of the assembly, when the stem is in said one position and said stem having other ports arranged to communicate the high pressure chamber with the low pressure chamber when the stem is in said other position.

2,640,543
HYDRAULICALLY OPERABLE VALVE CONTROLLED WELL TOOL
Roscoe O. Childers, Norman, Okla., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application August 18, 1947, Serial No. 769,273
16 Claims. (Cl. 166—4)



1. Well apparatus, including inner and outer members telescopically arranged with respect to each other and defining an annular fluid pressure chamber therebetween, means providing a passage non-communicating with said chamber, said passage being communicable with a region externally of the apparatus, a fluid medium in said chamber, a valve device in said inner member controlling fluid flow through said passage, and means in said inner member communicable with said chamber and engaging said valve device for operating said valve device in response to pressure imposed on said fluid medium upon telescopic movement between said members.

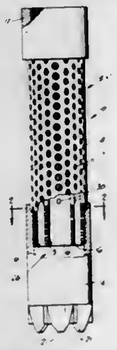
2,640,544
CASING CENTRALIZER
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California
Application December 27, 1949, Serial No. 135,135
6 Claims. (Cl. 166—4)



1. In a centering device for well conduits: an upper cage assembly; a lower cage assembly; each

assembly including an outer collar, an inner stop collar, and circularly spaced substantially rigid bars interconnecting said outer and inner collars; circumferentially spaced outwardly bowed leaf springs having their upper and lower ends immovably secured to the outer collars on said upper and lower cage assemblies, respectively; and stop means between the inner stop collars of said upper and lower cage assemblies; the distance between said inner stop collars being slightly greater than the length of said stop means; said stop collars being disposed adjacent the medial portions of said leaf springs and normally spaced inwardly away from said leaf springs.

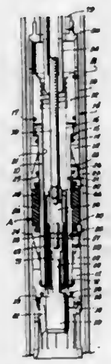
2,640,545
WELL POINT CONSTRUCTION
Barnett Share, Jamaica Estates, N. Y.
Application January 31, 1952, Serial No. 269,245
4 Claims. (Cl. 166—5)



1. In a well point of the type comprising an upper head for connection to a fluid line, a jetting head for discharge of fluid under pressure to remove soil from beneath the well point, a conduit interconnecting said heads and having peripherally spaced longitudinally extending external projections, screen means embracing said conduit and engaging said projections to form with the latter fluid passages external to said conduit, an apertured partition dividing said jetting head into an upper chamber connecting said fluid passages and the interior of said conduit and a lower jetting chamber, and movable valve means controlling flow through the partition aperture, the improvement comprising peripherally spaced helical vanes extending longitudinally of the inner surface of said lower jetting chamber from said partition to the discharge end of said jetting head.

2,640,546
APPARATUS FOR OPERATING TOOLS IN WELL BORES
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application March 11, 1949, Serial No. 80,851
19 Claims. (Cl. 166—12)

1. In well apparatus: a well tool adapted to be set in a well conduit positioned in a well bore; a setting tool detachably secured to said well tool, said setting tool comprising latch means releasably coupled to said well tool, means engageable with said latch means for holding said latch means coupled to said well tool, and means including a releasable connection operatively connected to said holding means for exerting a setting force on said holding means which is transmitted through said releasable connection to said holding means and from said holding means through said latch means to said



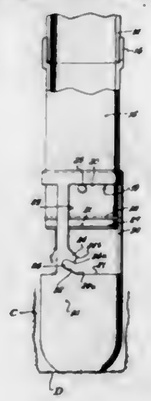
well tool, in order to set said well tool in the well conduit, said connection being constructed and arranged to release when said force exceeds a predetermined value sufficient to set the tool in the well conduit.

2,640,547
GAS-OPERATED WELL APPARATUS
Reuben C. Baker, Coalinga, and Thomas M. Ragan, Downey, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application January 12, 1948, Serial No. 1,845
16 Claims. (Cl. 166—12)



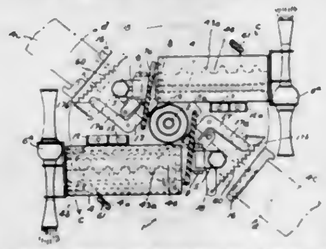
1. In well apparatus: a well device adapted to be operated in a well bore; fluid actuated means, including a closed chamber, for operating said well device; a slow burning, gas producing combustible product in said closed chamber capable of burning away progressively to generate a gas whose pressure increases gradually within said closed chamber to actuate said fluid actuated means while said pressure is increasing, said product requiring at least one second to develop maximum pressure in said closed chamber; and means for initiating combustion of said product.

2,640,548
DUMP BAILER
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application May 22, 1950, Serial No. 163,451
13 Claims. (Cl. 166—19)



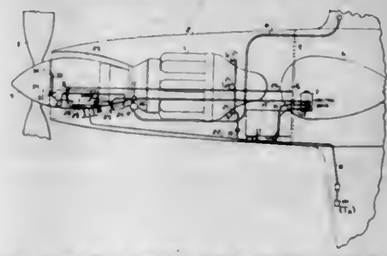
1. In a dump bailer: first and second members slidably telescoped one within the other; means for connecting one of said members to a running-in string for lowering said bailer in a well bore; said first member having an aperture; releasable inter-engageable lock elements on said members for holding said second member in a position with respect to said first member closing said aperture; and means on one of said members engageable with a lock element on the other of said members to release said lock members from engaging relation with each other, upon lowering of said one of said members to be connected to the running-in string relative to the other of said members, to allow said one of said members to be connected to the running-in string to be elevated by the running-in string relative to the other of said members to a position opening said aperture.

2,640,549
JET-DRIVEN SUSTAINING PROPELLER FOR AIRCRAFT
Vittorio Isacco, London, England
Application August 3, 1946, Serial No. 688,270
In Great Britain August 3, 1945
4 Claims. (Cl. 170—135.4)



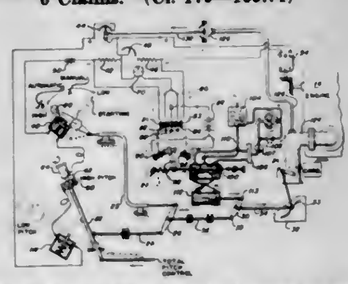
1. A sustaining propeller for flying devices, comprising a hub structure, blades of telescopic structure extending from said hub structure and having an external configuration of aerofoil section, jet propulsion units mounted at the outer ends of the tip elements of the blades, and means to feed fuel to said jet propulsion units and including a reservoir carried by said hub structure and extensible connecting pipes extending from said reservoir through said blades to said units.

2,640,550
TURBINE PROPELLER CONTROL SYSTEM
George P. Knapp, Verona, William E. Burns, Denville, and William P. Robbins and Raymond T. Zwack, Caldwell, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application July 24, 1948, Serial No. 40,476
41 Claims. (Cl. 170—135.72)



22. A control system for a turbine and a variable pitch propeller driven thereby comprising means for providing a signal as a manifestation of power, a manual condition control operable by the pilot to positions calling for different operating conditions, a manual power control operable by the pilot to positions calling for proportional amounts of available power desired, said power control being operable to select a proportional amount of maximum available power for controlling propeller blade angle, a governor sensitive to turbine speed for controlling the fuel supply to said turbine and means connected to said condition control, said power control and said governor for adjusting the speed setting of said governor according to selective operation of said condition control and also according to joint operation of said condition and power controls.

2,640,551
THROTTLE CONTROL WITH AUTOMATIC GOVERNOR
Donald M. Plumb, Bridgeport, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 15, 1948, Serial No. 54,753
6 Claims. (Cl. 170—135.74)



1. In a helicopter, a variable pitch rotor, an engine for driving said rotor, a throttle valve

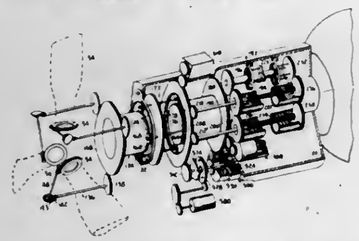
for said engine, a throttle valve control operatively connected with said throttle valve having a manual and an automatic range of operation, means operatively connected to said throttle valve and operative when said control is in automatic position for regulating the speed of said engine including means driven by the engine and responsive to variations in the speed of said engine from a predetermined value for controlling said throttle valve, follow-up means connected to said first mentioned means and responsive to the controlled movements of said throttle valve to suppress hunting in said throttle control means, and manually operable means having a connection to said rotor and operable independently of said throttle valve control for varying the pitch of said rotor including mechanism operably connected with said throttle valve for controlling the latter when said throttle valve control is in either of said ranges.

2,640,552

PROPELLER PITCH CHANGE MECHANISM

Charles W. Chillson, Caldwell, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application June 8, 1946, Serial No. 675,383
31 Claims. (Cl. 170—160.18)



24. In a variable pitch propeller, a hub, blades swivelly mounted therein for a normal and reverse range of pitch adjustment, means for varying the pitch of said blades deriving power therefor from the rotation of said hub, and including control means for effecting increases in pitch, and control means for effecting decreases in pitch, a governor for maintaining substantially constant speed to actuate one or the other of said control means when in the normal pitch range, means for overriding said governor to prevent actuation of said control means by the governor and to operate said pitch varying means to swivel said blades into the reverse pitch range, and means actuated by the establishment of reverse pitch for reconnecting said governor reversely with respect to both of said control means to maintain constant speed in the reverse pitch range.

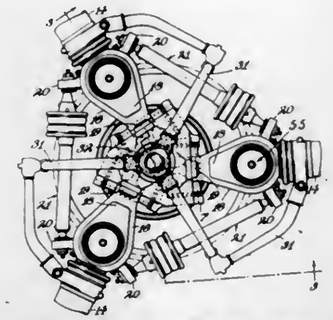
2,640,553

IMPELLER MOVEMENT DAMPING DEVICE

Raoul Hafner, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company

Application June 3, 1947, Serial No. 752,262
In Great Britain May 30, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 30, 1966
5 Claims. (Cl. 170—160.25)

1. A sustaining rotor for a rotary wing aircraft comprising a hub, means rotatably supporting the hub on the aircraft, at least a pair of rotor blades, each of said blades having a root member, a hinge connection between the root member and the hub permitting drag movements of the root member and blade, a pivotal connection between the blade and the root member permitting only pitch change movements of the blade, an arm for each blade carried by the hub for rotation therewith and connected to its blade to effect said pitch change movements of the blade relatively to the root member, a control member mounted in the hub and fixed against rotation for simultaneously adjusting said arms to change



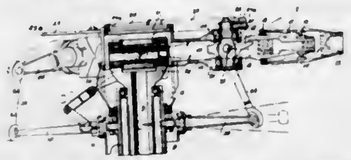
the pitch of the blades, a bearing means to support each arm from the control member for rotation of the arm relatively to the control member with rotation of the hub and additionally for limited angular movement relatively to the control member with drag movements of the blade, a tie extending from one root member to the adjacent root member and secured thereto to maintain the blades substantially in equiangular relationship and resilient means incorporated in the tie to damp the cyclic drag movements of small magnitude heavily.

2,640,554

MECHANISM FOR CONTROLLING BLADE MOVEMENTS OF AIRCRAFT SUSTAINING ROTORS

Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application October 10, 1946, Serial No. 702,524
5 Claims. (Cl. 170—160.55)



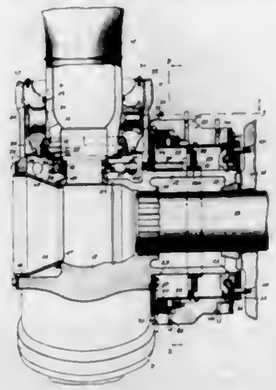
3. For an aircraft sustaining rotor having a hub and a plurality of blades each provided with a flapping pivot, a drag pivot for each blade operatively interposed between the flapping pivot and the rotor hub, and arranged to oscillate with the blades during lag-lead movement thereof, and mechanism for controlling lag-lead blade movements comprising arms connected with the drag pivots to move therewith, and damper devices connected with and extended between arms of adjacent blades around the hub.

2,640,555

HYDRAULIC PROPELLER PITCH-CHANGING SYSTEM

Maurice E. Cushman, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application March 1, 1946, Serial No. 651,264
5 Claims. (Cl. 170—160.21)



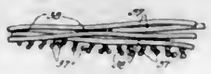
2. In a controllable pitch propeller comprising a hub and blades mounted therein, a pitch changing motor comprising a piston rotatable with the propeller, a stationary cylinder within which said piston is slidable, means mounted on said cylinder but movable by said piston, whose movement is a function of blade pitch angle, pitch limit stops for low pitch, feathering and reverse pitch, and means responsive to said movable means to control said low pitch, feathering and reverse pitch limit stops.

2,640,556

LOUD-SPEAKER DIAPHRAGM AND MOUNTING

Joseph B. Brennan, Cleveland, Ohio

Application July 25, 1947, Serial No. 763,718
7 Claims. (Cl. 181—31)



1. In a loud-speaker construction, a thin walled vibratile member comprising a plurality of layers of fibers with the fibers in each layer generally parallel to each other and the fibers in adjacent layers crossing each other, and spaced masses of binding material joining the fibers at points at which they touch each other.

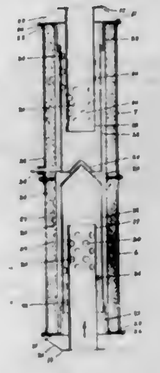
2,640,557

RETROVERTED PASSAGE TYPE MUFFLER WITH OUTER CONDUIT FORMED OF SOUND ABSORBING MATERIAL

Joseph B. Gaffney, Hokendauqua, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware

Application December 13, 1950, Serial No. 200,654
8 Claims. (Cl. 181—50)

1. A silencer comprising a substantially cylindrical housing having an intake end and a discharge end, an open ended gas inlet conduit positioned in the housing intake end and extending concentrically a substantial distance therein, the inlet conduit having a series of gas ports positioned around its circumference and spaced along a portion of the length of its inner end, an open ended gas outlet conduit positioned in the housing discharge end and extending concentrically a substantial distance therein, the outlet conduit having a series of gas ports positioned around its circumference and spaced along a portion of the length from its inner end, a first intermediate conduit having one end opened and one end closed positioned concentrically and externally along a substantial portion of the inlet conduit, the closed end of the first intermediate conduit being positioned inwardly from the inner end of the inlet conduit, the open end of the first intermediate conduit being positioned inwardly from the intake end of the housing, the first intermediate conduit having a series of gas ports positioned around



its circumference and spaced along a portion of the length from its open end, a second intermediate conduit having one end open and one end closed positioned concentrically and externally along a substantial portion of the outlet conduit, the closed end of the second intermediate conduit being positioned inwardly from the inner end of the outlet conduit, the opened end of the second intermediate conduit being positioned inwardly from the discharge end of the housing, the second intermediate conduit having a series of gas ports positioned around its circumference and spaced along a portion of the length from its open end, and an outer conduit formed of sound absorbing material positioned concentrically about and spaced from the two intermediate conduits and extending substantially the length of the housing, the outer conduit forming an annular space about the two intermediate conduits which provides a means of communication between the open ends of the two intermediate conduits.

2,640,558

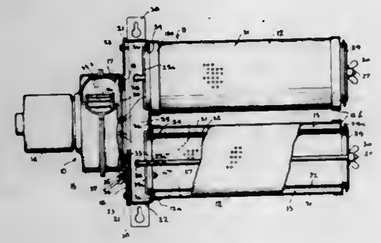
AIR PURIFYING AND CIRCULATING DEVICE

George S. Dauphinee, Brooklyn, N. Y., assignor to W. B. Connor Engineering Corp., New York, N. Y., a corporation of New York

Application July 23, 1949, Serial No. 106,472
7 Claims. (Cl. 183—4.8)

4. In an air purifying and circulating device, a base element forming a plenum chamber, a

blower housing rotatably mounted on one side of said base element for varying the direction of air discharge therefrom, said blower housing having an air-discharge outlet, air-permeable odor-adsorbent means mounted on the opposite side of said base element, said base element defining an inlet opening into said blower housing for conveying purified air into said plenum chamber from said odor-adsorbent means, and a power-



driven fan mounted inside said blower housing for drawing odor-laden air through said odor-adsorbent means and through said plenum chamber and discharging purified air from the outlet of said housing, and throttling means located between the odor-adsorbent means and the air-discharge outlet for regulating the amount of air drawn through said odor-adsorbent means.

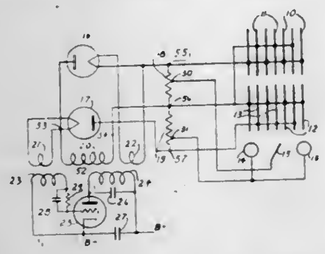
2,640,559

ELECTRICAL PRECIPITATOR CIRCUITS

Elmer G. Hills, Chicago, Ill., assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 21, 1946, Serial No. 642,473

5 Claims. (Cl. 183—7)



1. An electrical precipitator for purifying gas comprising an ionizing device including a plurality of electrodes between which an ionizing discharge is adapted to occur, a precipitating means including a plurality of spaced, parallel collector plates upon which impurities in said gas are collected, means for charging a portion of said plates to a predetermined potential relative to a neutral point, means for charging another portion of said plates to a potential in the opposite polarity relative to said neutral point, means for deriving a potential substantially equal to the combined potential across said two portions of said collector plates, and means for applying said derived potential across said ionizing electrodes.

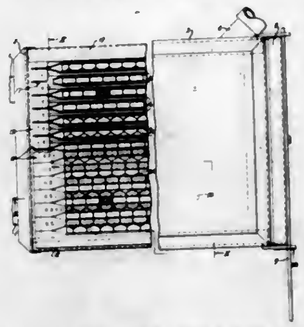
2,640,560

DUST FILTERING APPARATUS

John M. Lewis, Cheswick, and Robert A. Bub, Wilkinsburg, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application December 29, 1951, Serial No. 264,168

8 Claims. (Cl. 183—51)



1. Filtering apparatus comprising a box with an open top, a sheet of filter material folded upon itself at laterally spaced intervals to provide a plurality of parallel depending pockets spaced at their upper ends by connecting areas, the opposite sides of each pocket at each end being sealed together and forming vertical multiple thickness portions, horizontal supporting members secured to the opposite ends of the box and projecting inward therefrom a short distance, said members being provided with vertical slots for receiving the upper ends of said multiple thickness portions with the ends of said connecting areas resting on top of said members, means in the box between said supporting members and supporting said connecting areas between said ends of said areas, and a cover on the box, the box and cover each being provided with an opening, and one of said openings being an inlet for unfiltered gas and the other opening being an outlet for filtered gas.

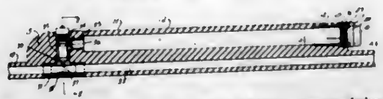
2,640,561

PNEUMATIC TOOL LUBRICATOR

Joseph Francis McGushin, Warm Springs, Calif.

Application January 30, 1951, Serial No. 208,644

9 Claims. (Cl. 184—55)



2. A pneumatic tool lubricator comprising a length of compressed air hose of flexible material, a structure of flexible material formed on and extending along said hose and providing an oil reservoir chamber extending longitudinally of the hose, said structure being closed at one end of said chamber and open at the other end to provide a filler opening for said chamber, means including a removable plug closing the open end of said structure, and a valve disposed in said structure at the closed end thereof and including a hollow body communicating with said reservoir chamber and the interior of said hose and providing a Venturi throat in said hose, a check valve in said valve body precluding passage of air from said hose through said valve body to said reservoir chamber, and means in said valve body metering the flow of oil from said reservoir chamber through said valve body to the interior of said hose.

2,640,562

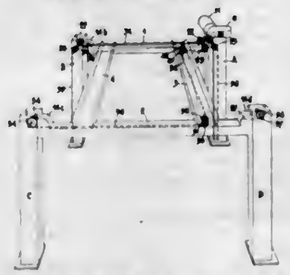
LIFTING APPLIANCE FOR VEHICLES

Julio Villars, Geneva, Switzerland

Application March 10, 1948, Serial No. 13,957

In Switzerland March 12, 1947

7 Claims. (Cl. 187—8.59)



1. A lifting appliance for vehicles and the like comprising four vertical columns each having vertical guideways opening at the inner sides thereof, a lifting frame horizontally disposed and including a pair of crossbars whose opposite ends are slidable in related guideways of the columns, a pair of runways resting on the crossbars, a driving member supported by one of the columns for raising and lowering said lifting frame, three flexible members, one of said flexible members being fastened at one end to the lower end portion of the column supporting the driving member and fastened at the other end to the upper end of a second column, the second flexible member being fastened at one end to the second column adjacent the lower end thereof and fastened at the other end to a third column, adjacent the upper end thereof, the third flexible member being fastened at one end to the first column adjacent the lower end thereof and also fastened at the other end to a fourth column adjacent the upper end thereof, sheaves rotatably mounted at opposite ends of each of said crossbars and guiding said flexible members, certain of said sheaves being supported by the flexible members, and other sheaves rotatably mounted on said runways and guiding said flexible members.

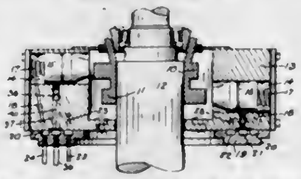
2,640,563

MEANS OF WITHHOLDING BRAKING ACTION WHEN AN HYDRAULIC BRAKE IS RELEASED

Walter F. Sanders, Tacoma, Wash.

Application March 4, 1949, Serial No. 79,564

3 Claims. (Cl. 188—91)



1. A means of withholding braking action when an hydraulic brake is released, comprising, in combination with an hydraulic brake adapted to be applied to a rotating body and having a plurality of reciprocating floating pistons mounted in braking cylinders in a fixed housing and actuated by said rotating body against the action of springs, and actuating a flow of fluid, and means to throttle said flow of fluid to resist the motion of the pistons whereby to apply braking action to the rotating body, means in said housing releasably and frictionally engaging said pistons in said cylinders, and means connected to said throttling means adapted to actuate said piston-engaging means, whereby said pistons may be held frictionally at the extreme outer ends of their travel against the action of the springs when said throttling means is released.

2,640,564

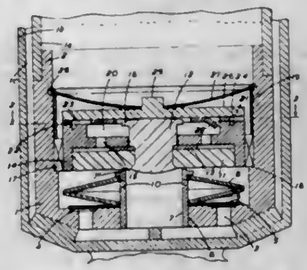
FLUID PRESSURE RELIEVING APPARATUS

John Leslie Cloudsley, Radnage, England

Application June 9, 1951, Serial No. 230,753

In Great Britain March 26, 1947

9 Claims. (Cl. 188—100)



1. Fluid-pressure-relieving apparatus for use in shock absorbers and similar equipment, comprising a cylinder, a piston slidable therein and having a through-passage for the flow of liquid to opposite sides of said piston, a valve, a liquid dashpot device the movable element of which serves as a valve seat for said valve, and means for resiliently pressing said valve against its seat and including a member constituting part of said device and formed with a narrow circular track whereby the flow of liquid into the dashpot device from the cylinder when the piston moves takes place by travel from an entry port in opposite directions along the two halves of said narrow circular track to a diametrically opposite exit port so that the two streams meet opposingly at the latter port.

2,640,565

BRAKE STRUCTURE

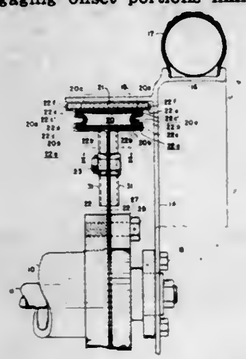
David Hoppenstand, Greenville, Pa., assignor to Hoppenstand Brake Corporation, a corporation of Pennsylvania

Continuation of abandoned application Serial No. 666,994, May 3, 1946. This application July 14, 1950, Serial No. 173,848

21 Claims. (Cl. 188—152)

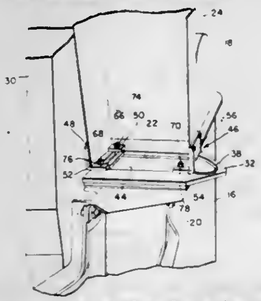
2. In a frictional structure having an annular friction member, an annular series of curved and flexible frictional elements located in an operative relationship with respect to the friction member, each of said frictional elements being of closely compacted composition material and having a radius of curvature different from the radius of curvature of the annular friction member, a support structure engaging said elements and limiting their movement to a radial movement substantially toward and from the friction member,

a pressure-actuated expansible means carried by said support structure, said frictional elements being operably secured on said expansible means, said support structure and said expansible means having engaging offset portions limiting radial



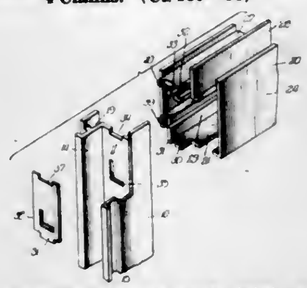
movement of portions of said expansible means with respect to said support structure, said expansible means having side portions constructed and arranged to expand radially outwardly and contract radially inwardly about said engaging offset portions and to thus move said elements into and out of frictional engagement with said annular friction member.

2,640,566
SUPPORTING MEANS FOR SWINGABLE MATERIAL HANDLING DUCTS
Robert F. Heinje, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application February 1, 1950, Serial No. 141,807
6 Claims. (Cl. 189—36)



1. In a structure of the character described: a first element; a substantially straight guide on said element having first and second spaced apart terminal ends; a curved guide on said element substantially coplanar with the straight guide and having first and second opposite ends lying on a line parallel to the straight guide and spaced from said straight guide a distance equal to the length of said straight guide; said first and second terminal ends of the curved guide being respectively directly opposite the first and second terminal ends of the straight guide so that said first terminal ends lie on a first line normal to the straight guide and said second terminal ends lie on a second line normal to said straight guide; said curved guide including a portion formed as an arc extending from its first terminal end toward its second terminal end and having as its center the second terminal end of the straight guide, and further including a contiguous portion connecting said arc portion to the second terminal end of said curved guide; a second element superimposed on the first element and a pair of guide followers fixed to the second element in spaced apart location thereon corresponding respectively to diagonally opposite terminal ends of the guides and slidably received respectively by the guides to interconnect the elements for relative angular movement in the plane of said surface of the first element, one follower being slidable along the straight guide in one direction and the other follower being simultaneously slidable in the opposite direction along the curved guide.

2,640,567
SASH CORNER JOINT CONSTRUCTION
Charles A. Pressnall, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application December 16, 1946, Serial No. 716,617
4 Claims. (Cl. 189—36)

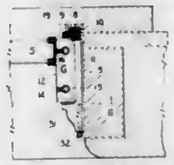


3. In a window frame corner joint construction, a vertical side frame member of relatively soft metal material having a web portion provided with vertically spaced angularly related apertures adjacent the end thereof, a cross frame member of relatively soft metal material having an end thereof positioned in abutting relation with a side of said side frame member, integral axially extending transversely spaced tongues on said end of said cross member, said tongues projecting through the vertically spaced apertures in said web portion of said side frame member and extending substantially beyond the outer surfaces of said web portion, and a relatively thin flat clincher plate of relatively hard metal material provided with apertures corresponding to the apertures in said web portion, said clincher plate being positioned with its inner face flatly against the outer surface of said web portion and being spaced inwardly from the ends of said projecting tongues, the ends of said tongues being turned over in different directions into clinching relation with the outer face of said clincher plate to permanently and rigidly secure said clincher plate against movement in all directions in the plane thereof and to hold said frame members in rigid connected relation.

2,640,568
WINDOW STRUCTURE
Wilbur B. Burke, East Cleveland, Ohio
Application June 26, 1947, Serial No. 757,226
1 Claim. (Cl. 189—72)

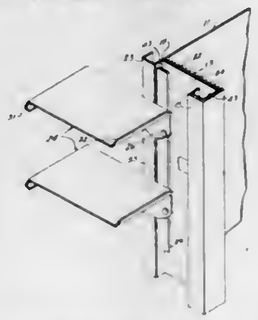
In window construction, a sash-guide formed of opposed sheet metal channel members secured

together, in combination with a means for eliminating sash-counterweights which comprises a transversely-flat web in the inner one of said channel members and a pair of guide grooves formed in it characterized by cross-section in substantially complete circle form with a narrow interruption providing margins in opposition to each other in resilient compression, means for



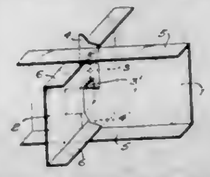
engaging the transversely-flat periphery surfaces of the stiles of window sashes and for laterally reinforcing said groove margins, embodying the integral portion of said inner channel member web connecting the grooves and the integral portions of the web laterally of the grooves, and window sashes having longitudinal tongues sliding in such grooves.

2,640,569
JALOUSIE ASSEMBLY FOR BUILDING CONSTRUCTION
William M. Jordan and Charles E. Jordan, West Palm Beach, Fla.
Application June 8, 1951, Serial No. 230,456
5 Claims. (Cl. 189—75)



1. In a building construction including sheet metal panels providing inwardly directed flanges surrounding a ventilation opening in the building structure, a jalousie assembly disposed in said opening and comprising a rectangular frame including spaced apart and substantially parallel side members each having along its edge disposed outwardly of the building wall a ridge formation projecting inwardly of said opening and having struck out tongues spaced longitudinally thereof between said ridge and the edge of the side member disposed inwardly of the building wall, and top and bottom transverse members extending between and connected at their ends to said side members at the corresponding ends of said frame, louvers extending transversely of said frame at locations spaced apart longitudinally thereof and pivotally connected at their ends to the ridge formations of said side members, link bars extending along said side members and pivotally connected to said louvers at the corresponding ends of the latter, cover plates disposed one against each frame side member at the side of the latter disposed inwardly of said opening and having transversely extending slots spaced apart longitudinally thereof and receiving said tongues, the panel flanges having rolled edges at the inner side of said wall and the sides of said opening and each of said covers having a rolled inner edge closely engaging the rolled inner edge of the corresponding channel flange, and a manually operated louver adjuster mounted on the inner edge portion of one of said covers and connected to the adjacent link bar.

2,640,570
SUPPORTING CONSTRUCTION FOR BUILDING LAYERS
Alexandre Horowitz, Eindhoven, Netherlands
Application February 26, 1948, Serial No. 11,103
In the Netherlands March 6, 1947
1 Claim. (Cl. 189—82)

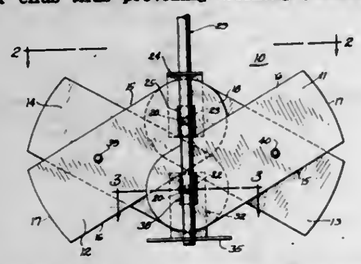


A floor structure comprising, in combination, a first set of spaced substantially parallel beams each being composed of a web and a pair of flanges, and said webs of said first set of beams each having at a plurality of spaced points spaced inwardly from the outer edges thereof a pair of tongues struck outwardly therefrom so as to form a plurality of openings in said webs, said plurality of openings in said web of one beam of said first set of beams being in alignment with the openings in the web of the other beams of said first set of beams, and said tongues all extending in the same direction from said webs and being perpendicular to said webs and each pair of tongues respectively extending from web portions at opposite edges of the opening formed by each pair of tongues, and the latter being substantially parallel to each other so as to form a space between each pair of tongues; and a second set of spaced, substantially parallel beams each having webs of a thickness substantially equal to the spaces between said pairs of tongues and of lesser width than the width of the webs of said first beams, said second set of beams extending through said aligned openings in said first set of beams and having flanges substantially perpendicular to the flanges of said first set of beams and located between and adjacent to the latter, said tongues of said first set of beams overlying opposite sides of said webs of said second set of beams and being welded thereto so that said first and second set of beams perpendicularly intersect each other and are connected together at their intersections.

2,640,571
POLE KEY ANCHOR
James K. Harper, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application April 11, 1951, Serial No. 220,419
1 Claim. (Cl. 189—92)

A pole key anchor comprising a plate assembly having a pair of upper anchor blades and a pair of adjacent lower anchor blades, said blades being of similar substantially rectangular elongated plane sheet material, a base plate having a bottom

flange and a vertical flange, an upper guide member having a vertical flange and an apertured horizontal flange, said upper blades being pivoted together adjacent their inner ends about a common pivot supported on said vertical flange of said guide member, said lower blades being pivoted together adjacent their inner ends about a common pivot supported on said vertical flange of said base plate, each of said upper blades being pivoted to one of said lower blades intermediate their ends thus providing working portions of



said blades extending beyond said last mentioned pivotal connections, a rod for placing the plate assembly into a hole, said rod having a removable connection with said base plate and extending through said apertured flange and a U-shaped yoke on said guide member embracing said rod, said rod maintaining said base plate and guide member in vertical alignment when said blade assembly is actuated to move said blades about their inner pivotal connections to expand the working portions of the same into earth formation.

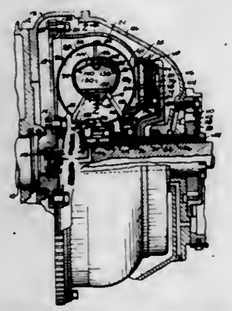
2,640,572

LOCK-UP CLUTCH IN A FLUID TORQUE CONVERTER

James H. O'Brien, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application December 31, 1947, Serial No. 795,162

18 Claims. (Cl. 192—3.2)



1. The combination with the impeller and turbine members of a fluid transmission, of a reaction member interposed between the impeller and turbine members, clutch means including a centrifugally actuated radially movable clutch member carried by the reaction member, said clutch member engaging against both the impeller and turbine members to clutch the impeller and turbine members together, and yielding means urging said clutch member toward the disengaged position.

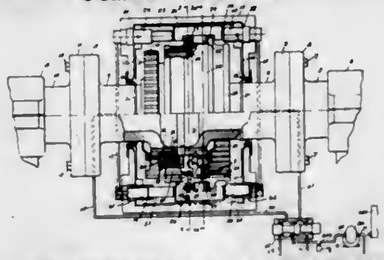
2,640,573

SYNCHRONIZER CLUTCH

Robert H. Shenk, Erie, Pa., assignor to American Flexible Coupling Company, Erie, Pa., a corporation of Pennsylvania

Application August 2, 1949, Serial No. 108,104

8 Claims. (Cl. 192—53)



1. In a disengageable gear coupling, in combination, a hubbed externally toothed driving gear, a hubbed externally toothed driven gear, an internally splined sleeve for engaging the teeth of said gears, an annular pressure ring slidably mounted on the hub of said driving gear concentrically of said sleeve and intermediate said driving gear and said driven gear having circumferentially spaced, longitudinally extending grooves on the periphery thereof and a peripheral groove, said longitudinally extending grooves having enlarged portions adjacent the driving gear side thereof with tapered shoulders, longitudinally movable annular disks rotatable with said pressure ring, annular disks on said hub of said driven gear and rotatable therewith frictionally engageable with the longitudinally movable disks rotatable with said pressure ring to initially transmit rotative force from said driving gear to said driven gear upon initial longitudinal movement of said sleeve, blocking pins spaced around the inner periphery of said sleeve for disposal in the longitudinally extending grooves of said pressure ring, said blocking pins being adapted to engage said tapered shoulders in the enlarged ends of said slots upon initial longitudinal movement of said sleeve toward the driven gear until the speed of the driven gear is synchronized with the speed of the driving gear wherein said pins move longitudinally of said slots, releasing said disks and said pressure ring, spring-urged balls carried by said sleeve engaging one side of the peripheral groove in said pressure ring upon initial longitudinal movement of said sleeve to initially move said pressure ring to engage said friction disks before said blocking lugs engage the tapered shoulders of the enlarged ends of said slots, and means for moving said sleeve longitudinally.

2,640,574

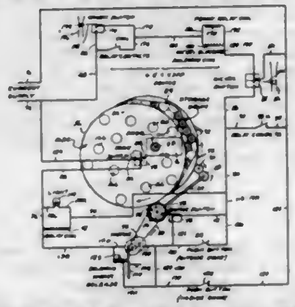
CONTROL FOR REVOLVING DRUM VENDING MACHINES

Harry R. Frankle, Des Moines, Iowa

Application April 4, 1952, Serial No. 280,533

14 Claims. (Cl. 194—10)

1. In a control mechanism for a rotating drum type vending machine having a vendee's access door, a sales disc and a coin receiving slot and chute, a frame secured to the interior of said vending machine, a pair of leads for conducting electrical energy to the interior of said vending machine, a coin switch secured to said frame and having one of its terminals connected to one of said pair of leads; said coin switch being spring loaded open, a lever arm secured to said coin switch and extending into said coin chute; whereby when a coin passes along said coin chute said coin switch is momentarily closed, a relay switch secured to said frame, a lead connecting one end of said relay switch coil to one of the contact points of said relay switch, a lead connecting the one of said relay switch contact points that is connected to one end of said relay switch coil to the other terminal of said coin switch, a lead connecting the other of said relay switch terminals to the one of said pair of leads that is connected to said coin switch terminal, a door switch having two terminals secured to said frame and near said vendee's access door, a lever arm for actuating said door switch extending into operative engagement with said vendee's access door, said door switch being spring load open and being closed by the engagement of said vendee's access door with said lever arm, a lead connecting one of the terminals of said door switch to the other of said pair of leads, a lead connecting the other terminal of said door switch to the other end of said relay switch coil, a motor having a rotating armature and two terminals secured to said frame, a lead connecting



one of the terminals of said motor to said other end of said relay switch coil, a gear rotatably secured to said frame and operatively connected to one end of said motor armature, means operatively connecting said gear to said disc and drum of said vending machine, a gear switch having two terminals and spring loaded closed secured to said frame near said door, a gear switch lever for opening said switch extending near to said gear, at least one lug on said gear for engaging said gear switch lever to open said gear switch at a fixed location for said gear, a lead connecting one terminal of said gear switch to the other terminal of said motor, a lead connecting the other terminal of said gear switch to the contact point of said relay switch that is connected to one end of the coil of said relay switch, a selector switch secured to said vending machine and operable from the exterior of said vending machine; said selector switch having two terminals and being spring loaded open, a lead connecting one of the terminals of said selector switch to said other terminal of said motor, and a lead connecting the other terminal of said selector switch to the one of said relay switch contacts that is connected to one end of said relay switch coil.

2,640,575

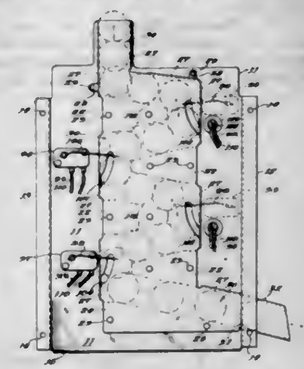
COIN CHANGER

Dominic A. Piano, Chicago, Ill.

Application September 18, 1947, Serial No. 774,731

3 Claims. (Cl. 194—10)

1. A coin changer comprising: a plurality of coin chutes, each being adapted to receive a coin of a different denomination to be changed; electric switches disposed contiguously to said chutes in differential numbers relative to said denominations whereby any one of said coins in passing through an appropriate one of said chutes will sequentially actuate those of said switches contiguous thereto; at least one of said chutes being adapted to receive coins of a denomination re-



quiring a plurality of coins as change and having a plurality of bends therein, certain of said switches being located adjacent said bends; a container for receiving coins suitable for change; a coin dispensing slide in association with said container; and electrical devices controlled by said switches for operating said coin dispensing slide to eject from said container a coin as change each time any one of said switches is actuated.

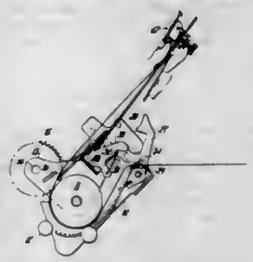
2,640,576

MANIFOLDING TYPEWRITER

Jesse A. B. Smith, Stamford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 21, 1949, Serial No. 134,192

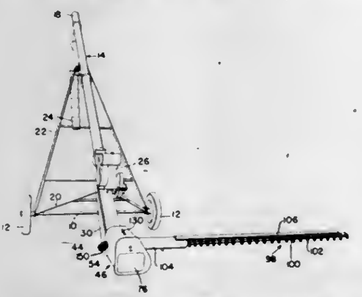
2 Claims. (Cl. 197—126)



1. In a manifolding typewriter having a gage bar, a clamping device comprising a mounting element on said gage bar, a clamping element having pivot connection to said mounting element at the front of the gage bar and having a jaw adapted to clamp a manifold web at the gage bar front, said pivotal connection and said clamping element jaw being arranged toward one edge of the gage bar to overlie only a lesser portion of the front thereof, said mounting element including a thumb rest flush with the gage bar and forming a lateral extension thereto at its edge opposite the clamping element pivot and jaw, and said clamping element providing

a finger piece straddling the rear face of the gage bar and adapted to apply the clamp by pressing said finger piece toward the gage bar.

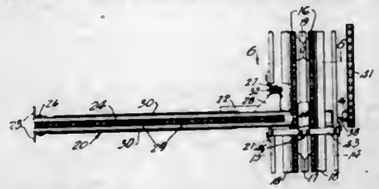
2,640,577
HOPPER AND EXTENSION CONVEYER MECHANISM FOR SMALL GRAIN ELEVATORS
Merrill W. Roscoe, Moline, Ill., and Royal L. Beldin, Davenport, Iowa, assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 3, 1949, Serial No. 119,366
19 Claims. (Cl. 198—9)



1. A material-handling hopper having a bottom wall, first and second upright end walls, and first and second upright side walls; means providing an aperture in the first end wall near the bottom thereof; an auger rotatably carried by the hopper and extending horizontally between the end walls and in proximity to the bottom wall and coaxial with said aperture for advancing material toward said aperture, said auger having a driven end portion adjacent said aperture and a driving end portion adjacent the second end wall; means providing an aperture in the second end wall coaxial with the auger; a removable cover for said second end wall aperture; said first side wall extending upwardly beyond the top of the auger, and said second side wall having a material-inlet opening above the level of the top of the auger; a driving member rotatably carried by the first side wall above the level of the top of the auger and coaxial with the material-inlet opening on an axis normal to the auger axis, said driving member having a driving end facing the material-inlet aperture; and an extension auger selectively positionable to extend through the material-inlet opening and coaxial with the driving member, or to extend through the uncovered aperture in the second end wall and coaxial with the first mentioned auger, said extension auger having a driven end selectively connectible to the driving end of the driving member or to the driving end of the first mentioned auger, according to the position of said extension auger.

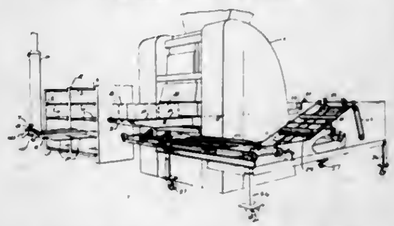
2,640,578
ARTICLE TRANSFER FOR CONVEYER ORGANIZATION
George Schroenghamer, St. Paul, Minn., assignor, by mesne assignments, to Fenn Bros., Inc., Sioux Falls, S. Dak., a corporation of South Dakota
Application April 7, 1949, Serial No. 86,092
2 Claims. (Cl. 198—20)

1. A side delivery intake conveyor mechanism for use with a candy packaging machine including a feed conveyor of the type having a pair of spaced parallel endless conveyor elements with a plurality of upwardly extending spaced lugs disposed in opposed pairs thereon and adapted to engage candy bars successively delivered thereto, said side intake conveyor mechanism comprising an endless conveyor with its upper run disposed at a higher elevation than the adjacent portion of the feed conveyor elements, and a stationary horizontal article transfer shelf including means for mounting the same



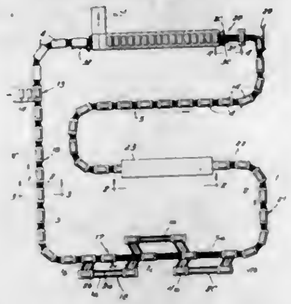
at the discharge end of said side intake endless conveyor and disposed at a lower elevation than said intake conveyor and at a higher elevation than the runs of said feed conveyor elements and having its lateral edges terminating between the parallel runs of said feed conveyor elements whereby the candy bars may be delivered to said shelf from said intake conveyor and the pickup lugs of said endless conveyor will engage successive articles delivered to said transfer shelf and deliver the same off from said shelf to the wrapping machine.

2,640,579
CONVEYER
Walter G. Schutt, Adrian, Mich., assignor to Stearns Manufacturing Company, Adrian, Mich., a corporation of Michigan
Application April 3, 1948, Serial No. 18,798
4 Claims. (Cl. 198—32)



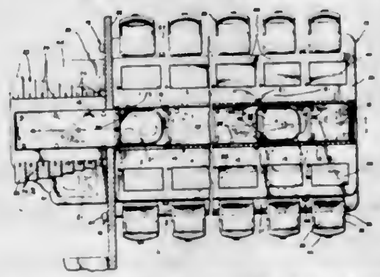
3. A conveyor for transporting plates or pallets comprising a pair of flexible substantially spaced conveyor elements, one of short length and one of longer length, another conveyor angularly disposed with respect to the first mentioned conveyor and having a plurality of flexible conveyor elements located at the end of the short conveyor element of the first mentioned conveyor but the flexible elements of the second conveyor passing under the long conveyor element of the first conveyor whereby plates are conveyed along the first conveyor and above the second conveyor by the long chain of the first conveyor and then the rear edge of the plate drops down onto the flexible conveyor elements of the second conveyor when one edge passes over the end of the short conveyor element of the first conveyor and the pallet is thereupon picked up by the second conveyor and pulled off the long crossing chain of the first conveyor.

2,640,580
CONVEYER SYSTEM
Albert Raymond De Burgh, Redondo Beach, Calif.
Application August 26, 1948, Serial No. 46,252
7 Claims. (Cl. 198—33)



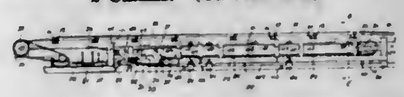
1. In a conveying system, the combination of means for portably supporting a series of articles, a driven conveyor having article engaging means for propelling said series of articles in predetermined spaced relationship along said supporting means, means for effecting close packing of said articles along a predetermined section of said supporting means and resumption of the spaced travel of said articles beyond said section, said last-mentioned means comprising means for effecting disengagement of said article engaging means from said article at the receiving end of said close packed section, and means for effecting re-engagement of said article engaging means with an article at the discharge end of said close packed section.

2,640,581
AUTOMATIC STATION-TO-STATION DELIVERY CONVEYER MEANS
Melvin E. Abitz, Chicago, Ill.
Application February 7, 1949, Serial No. 74,978
3 Claims. (Cl. 198—38)



1. Automatic station-to-station conveyor means comprising, conveyor belt assembly support means, endless conveyor belt assembly means mounted thereon provided with tray urging lugs on the longitudinal axis thereof, and further provided with lateral rest lugs to support a conveyor tray, conveyor belt housing and delivery door assembly means of tunnel-like formation mounted to straddle the said endless conveyor belt assembly means, gradual horizontally mounted selector pin means mounted at different levels on the said conveyor belt housing and delivery door assembly means, plural delivery door means hingedly secured to the said conveyor belt housing and delivery door assembly, spring means normally urging the said delivery door means to closed position, electric solenoid means connected interiorly of the said delivery door means and adapted to open same when energized, conveyor tray means adapted to be moved upon the said endless conveyor belt assembly means, vertically mounted selective tray pin arresting means of varied lengths secured to the said conveyor tray means and adapted to engage a specific gradual selector pin thereby effectuating opening of a door of the said conveyor belt housing and delivery door assembly means, and electric circuit means interconnecting the said electric solenoid means to the said gradual selector pin means and to the said selective tray pin arresting means, physical contact of both of the aforementioned pin means closing the said electrical circuit to energize the said electric solenoid means to open the said delivery door means simultaneously causing the said gradual selector pin means in concert with the said tray pin arresting means to divert the said conveyor tray means radially through the said delivery door means, tray propelling lug means secured to the said endless conveyor belt assembly means and engaging an edge of a tray to effectively propel and convey the same through an open door of the said conveyor belt housing and delivery door assembly means.

2,640,582
BELT CONVEYER
John R. Madeira, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 29, 1950, Serial No. 198,176
2 Claims. (Cl. 198—139)



1. In a belt conveyor, an extensible elongated frame having a plurality of belt supporting rollers therealong, take-up means including two tensioning pulleys normally disposed longitudinally of said frame for reversing the direction of the lower return run of the belt, a carriage for one of said tensioning pulleys movable longitudinally of said frame for adjusting the length of said reversed run of the belt, supporting means for said reversed run including a pair of flexible members guided on the frame in parallel orbital paths beyond opposite sides of said reversed run and connected to said carriage for adjustable movement therewith, said flexible members having a plurality of transverse belt supporting cross members therebetween, the lower run of said supporting means being movable in a path parallel to and below the reversed run of the belt to position said cross members in supporting relation to the latter, and the upper run of said supporting means being movable in a path above and in non-engaging relation to the belt.

2,640,583
PROOFER TRAY
Clarence R. Rechtin and William P. Bruestle, Cincinnati, Ohio, assignors to The J. H. Day Company, Inc., Cincinnati, Ohio, a corporation of Ohio
Application January 11, 1951, Serial No. 205,544
5 Claims. (Cl. 198—152)

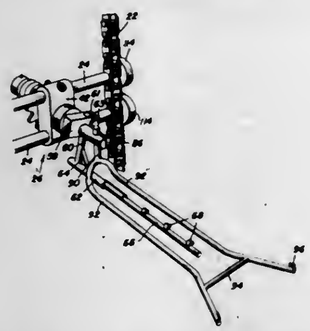
1. A proofer tray comprising two end members, a plurality of support rods, each of said support

rods being rigidly connected to each of said end members, a drop member, said drop member including a pair of drop rods, said drop rods extending intermediate said end members in parallel spaced relationship, a plurality of arcuate spacing bars, said spacing bars interconnecting said drop rods at spaced intervals, said drop bars being hingedly connected to one of said end



members, means for releasably holding said drop member in a fixed position relative to the opposite end member, said means including retractable collars carried by said opposite end member and adapted for releasable telescopic engagement with the ends of said drop bars, and a flexible sleeve adapted to fit over said drop rods and spacing bars when said drop member is rotated free of said opposite end member.

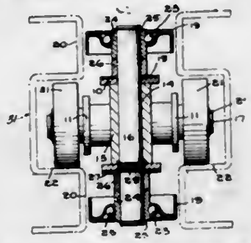
2,640,584
AUTOMATIC COATING AND DRAINING MACHINE
Clarence C. Robb and Haven M. Zimmerman, Dunbar, W. Va.
Application January 16, 1948, Serial No. 2,655
9 Claims. (Cl. 198—179)



1. An article holder comprising a body, a first shank rotatably mounted in said body, a second shank slidably received within said first shank, and article receiving tongs attached to said shanks, said second shank having a longitudinal groove extending within the surface thereof, said first shank having a key slidably received in said groove.

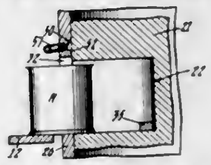
7. A coating machine including a conveyor, an article carrying holder mounted on said conveyor, a first shank rotatably mounted in said holder, a second shank slidably received within said first shank, article receiving tongs attached to said shanks, a collar mounted on said first shank and abutting said holder, a dog on said collar, and angular pre-positioning means fixedly secured to said first shank for engaging said dog to rotate said tongs to a predetermined angular position.

2,640,585
CONVEYER CHAIN
Olaf John Barclay Orwin, Smethwick, England, assignor to Fisher & Ludlow Limited, Smethwick, England, a British company
Application June 30, 1949, Serial No. 102,355
In Great Britain July 10, 1948
6 Claims. (Cl. 198—189)



1. A conveyor chain comprising a connecting body for joining together pairs of link chains at each end thereof, said body having a pair of mutually transversely disposed tubular bearings connected together, a connecting pin seated in each bearing and a chain link seated on the pin on each side of said bearing, the longitudinal axes of the respective pins being spaced from one another, each link being of strip material of relatively thin, flat form in cross section, and of substantially uniform thickness throughout its length, and having a hole extending transversely therethrough at each end, said connecting pin being of generally cylindrical form and extending through one hole in each link of each pair, each pin corresponding substantially in cross section to the diameter of the bore of the hole in said link, each pin having at one end a plurality of circumferentially arranged, spaced, mutually parallel ribs, extending parallel to the pin axis, at a position where said pin extends into one of said link holes, each of said ribs having a surface hardness greater than that of the material of the edge of the link hole into which the pin extends, the ribs on said pin indenting the material around said hole when the pin is driven into it and locking said pin and link against relative rotation, whereby relative rotation occurs only between the bearing and the pin, each pin projecting beyond the respective link on each side thereof, and a roller seated on the projecting end of each pin.

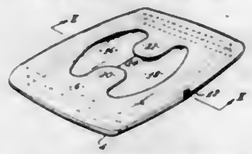
2,640,586
VALVE MECHANISM WITH OIL COLLECTING DEVICE
Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 23, 1949, Serial No. 111,900
5 Claims. (Cl. 198—209)



1. A valve mechanism for transferring articles relative to an enclosed chamber having a predetermined pressure, comprising a valve body member having pockets formed in the peripheral

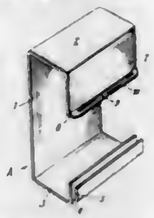
wall thereof for passing the articles while maintaining the chamber pressure, a valve seat closely engaging said peripheral wall of the valve body member and having a port through which said articles pass into said pockets, means for supplying a lubricant to the peripheral wall of said valve body member, and means located in said valve seat above said port and above said pockets for drawing lubricant upwardly and away from said articles as they pass through said port to prevent dripping of lubricant onto the articles.

2,640,587
DISPOSABLE TISSUE DISPENSER AND CONTAINER
Mabel B. Smith, Los Angeles, Calif.
Application October 4, 1948, Serial No. 52,649
2 Claims. (Cl. 206—37)



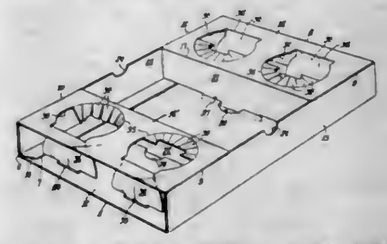
2. A disposable tissue dispenser adapted to contain a pack of tissues folded in rectangular form, comprising a container having a wall with an opening therein through which tissues may be withdrawn, said opening having widened ends and a pair of spaced opposed tongues defining a narrowed intermediate portion and providing access to tissues within the container, said container being arranged to receive the folded tissues with an uppermost tissue edge bridging the narrowed intermediate portion, the ends of the opening being formed on symmetrical curves, the inner curvatures of which face each other, the ends of the openings extending laterally in directions parallel to the longitudinal axes of the tongues to points adjacent the ends of the container, and the tongues having rounded ends of appreciable width compared to the distance between the ends of the opening.

2,640,588
CIGARETTE PACKAGE AND MATCHBOOK HOLDER
William D. Dunn, Linden, N. J.
Application September 8, 1950, Serial No. 183,687
2 Claims. (Cl. 206—38)



2. A substantially C-shaped casing constructed and arranged to embrace a package of cigarettes, said casing comprising a back wall, a bottom wall, an unbroken top wall designed to overlie and cover the opened upper end of the cigarette package, an upstanding lower front wall formed integrally with said bottom wall and provided with an upwardly opened channel adapted to receive the lower end of a book of matches, and a downturned upper front wall formed integrally with said top wall and terminating in a bottom edge disposed in parallel and spaced relation with said channel, said downturned upper front wall being provided with a slot disposed substantially parallel with said bottom edge and extending substantially the width of said downturned wall for receiving and holding the cover of the book of matches held by the lower front wall.

2,640,589
DRIVE-IN THEATER SERVICE TRAY
Thomas W. Foster, Chicago, and Leonard E. Scheck, Berwyn, Ill., and Earl L. Bradley, Cleveland, Ohio, assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application March 5, 1952, Serial No. 274,964
2 Claims. (Cl. 206—72)



1. An open-ended collapsible tubular tray of the character described composed of and from a single, integral and rectangular piece of fibrous sheet material such as paperboard so cut and scored that when folded it will provide substantially opposed, coextensive and spaced side walls, a bottom wall extending between said side walls and substantially from end to end of each side wall, a pair of top wall panels extending from side wall to side wall above and in spaced relation to said bottom wall, said top wall panels having adjacent edge portions spaced from one another to expose an area of said bottom wall thereby to provide a well between the tray ends, a well side panel depending from one of said adjacent edges of one of said top wall panels into contact with the upper surface of said bottom wall adjacent to said exposed area, means on said well side panel for effecting connection with said bottom wall, a pair of flaps having rounded sides struck from each of the top wall panels to provide portions of rounded article-receiving openings, a series of separate hinged sectors struck out from each top wall panel cooperating with the rounded flaps to complete the rounded article-receiving openings, each flap being hingedly connected to its respective top wall panel adjacent an end of the tray, a pair of tab-receiving slits in the bottom wall, one adjacent each end thereof, and located directly beneath the hinge lines of the respective opening forming flaps, each such flap having a locking tab portion at the end thereof projecting through the corresponding bottom wall slit and frictionally engaged with the bottom wall at the ends of such slit.

2,640,590
CAN LABEL SORTING DEVICE
Arthur H. McClelland and Karl R. Anderson, Los Angeles, Calif.
Application December 9, 1948, Serial No. 64,282
13 Claims. (Cl. 209—74)

1. In an article selecting mechanism of the character described, the combination compris-

ing: a pair of spaced, rigid, parallel guides directing by lateral engagement a plurality of moving articles from which one is to be selected; article supporting means beneath each guide at opposed positions and normally supporting the moving articles from beneath, each article supporting means comprising a horizontally elon-



gated articulated member having a series of rigid links connected at each end to an adjoining link by pivot means having an upwardly extending axis and being deformable locally in a horizontal direction only to a position removing support from beneath a selected article; and retraction means for simultaneously locally deforming both said article supporting means.

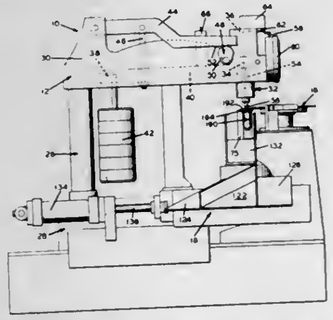
2,640,591

AUTOMATIC HANDLING AND HARDNESS TESTING MECHANISM

Richard L. Sieggreen, Saginaw, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 10, 1950, Serial No. 137,753

9 Claims. (Cl. 209—79)



1. Mechanism for the automatic hardness testing of the predetermined surface of articles comprising a hardness tester including an article penetrating member, weight supporting lever means interconnected with the penetrating member, fluid power means for controlling the imposition of the weight supported by the lever means on the penetrating member, a normally open electrical switch associated with the lever means, a normally open electrical switch associated with the penetrating member, means for receiving and conveying the articles to be tested in singular manner from a point of deposit thereon to a point of testing adjacent the penetrating member with the surface of the article to be tested in juxtaposition to the article contacting portion of the penetrating member, fluid power means for controlling the operation of the receiving and conveying means, means for receiving and supporting the article at its point of testing, fluid power means for actuating the article supporting means in a direction to move the surface of the article into and out of engagement with the article contacting portion of the penetrating member, means for sorting the tested articles according to their acceptance or rejection, fluid power means for actuating the sorting means, and an electrical current supplied circuit having the aforementioned switches and also a plurality of actuated valve means therein, one associated with each of the respective aforementioned power means, said valve means controlling the flow of pressure fluid to the fluid power means dependent upon the actuation of the electrical switches in the circuit for the predetermined desired sequence operation of the article penetrating member, the article receiving and conveying means, the article supporting means and the article sorting means.

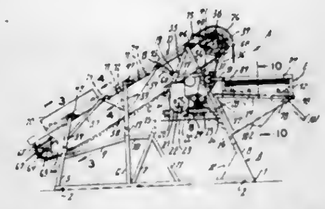
2,640,592

PORTABLE GRAVEL SCREEN

Philip M. Finger, St. Louis, Mo.

Application June 30, 1949, Serial No. 102,373

1 Claim. (Cl. 209—247)



A portable gravel cleaning machine of the knockdown type comprising an elongated skeletonized main frame having a pair of spaced upstanding end legs at the forward end and transversely aligned pairs of converging legs, a motor support section comprising a horizontal platform and transversely aligned pairs of downwardly diverging legs adapted for connection at their lower ends to the upper ends of the converging legs for co-operation therewith to form a rigid A-frame, said platform being secured to the legs of said section near their lower ends, a prime mover mounted on said platform, a conveyor support section comprising a frame having spaced depending members, the forward depending members being aligned with the end legs of the main frame and being detachably secured thereon, the rearward depending members being secured to the apex of the A-frame, an endless belt disposed on the frame of the conveyor support section, means drivenly engaged to the prime mover for moving the endless belt, a screen support section comprising a frame removably secured to the motor support section and extending rearwardly therefrom, rollers carried by said frame, a screen holder mounted upon said rollers, and means for reciprocating said holder on said rollers.

2,640,593

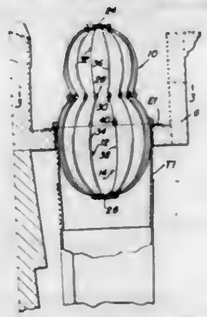
DOWNSPOUT STRAINER

Henry C. Korb, Cincinnati, Ohio

Application June 11, 1951, Serial No. 230,884

4 Claims. (Cl. 210—88)

1. A down spout strainer comprising a plurality of wire lengths, said wire lengths including upper and lower terminal hooks, an upper washer joining the upper hooks, a lower washer joining the lower hooks, and each of said wire lengths being bent intermediate its ends to provide coils urging



said upper and lower hooks against said upper and lower washers.

2,640,594

HATRACK

Woodrow V. Lesikar, Houston, Tex.

Application March 3, 1950, Serial No. 147,469

4 Claims. (Cl. 211—32)



1. In a hat hanger, a mounting plate adapted to be fixed on a vertical surface of a support, an absorbent plate adapted to be positioned between said mounting plate and said surface, securing means traversing said mounting plate and said absorbent plate for securing said mounting plate and said absorbent plate to said surface, said mounting plate having a projection spaced vertically from said securing means and engaging said absorbent plate so as to preclude rotation of said absorbent plate relative to said mounting plate and said surface on the axis of said securing means, said absorbent plate depending from said mounting plate, and a hat crown receiving ring depending from and pivoted on said mounting plate and normally overlying said absorbent plate.

3. In a hat hanger, a mounting plate adapted to be fixed on a vertical surface of a support, a hat crown receiving ring depending from and pivoted on the mounting plate, and a hat crown rest mounted on the lower part of said ring for direct supporting engagement with the underside of the crown of a hat inserted through said ring, said hat crown rest comprising an arcuate non-metallic form of U-shaped cross section having a bight portion engaged around the inward side of the ring arranged for engagement with the hat crown and the brim of the hat and legs extending outwardly from the said bight portion and ring.

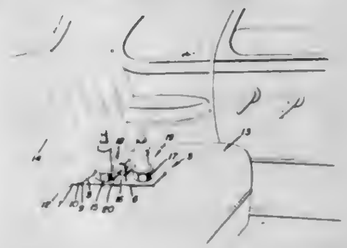
2,640,595

AUTOMOBILE SEAT ARTICLE HOLDER

Burnard W. Byford, McGregor, Tex.

Application July 1, 1949, Serial No. 102,648

1 Claim. (Cl. 211—74)



An automobile seat attachment of a type which may be folded into compact form and carried, when not in use, in the glove compartment and which, when in use, serves to permit nursing bottles and the like to be held in an erect and accessible position and supported on a seat cushion comprising an elongated substantially flat and rigid mat adapted, when in use, to rest upon the surface of the stated seat cushion, a flap, smaller than said mat and disposed in a plane with and hingedly connected to an end portion of said mat, said flap being adapted to be tucked removably and frictionally between the seat cushion and lower edge of the coacting backrest in a manner to temporarily anchor said mat in useful position, said mat being made from moldable material, and a plurality of socket-type article-receiving and holding members molded on the normal top side of said mat, said flap being flat and being foldable against the bottom of the mat when the attachment is not in use, and said receivers being of cup-like form and adapted to telescopically receive bottles and the like, and the rear non-hinged edge portion of said flap being rounded to facilitate piloting and feeding the flap into the stated anchoring position.

2,640,596

UTILITY HOLDER FOR AUTOMOBILES

Harry J. Reeder, Buffalo, N. Y.

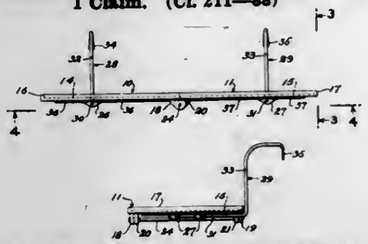
Application January 19, 1950, Serial No. 139,389

4 Claims. (Cl. 211—87)



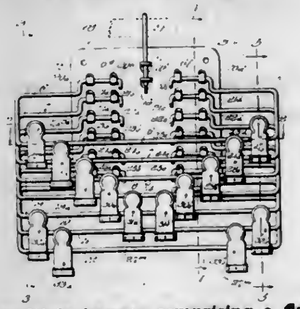
2. A utility holder, comprising a single sheet of material of substantially T-shape in plan bent upon itself along its upright portion into substantially U-shape to define a rear attaching wall and a front wall and bent upon itself along its transverse portion toward said rear wall to define side walls and rear walls forming an upwardly-opening compartment, said rear walls being spaced forwardly from said attaching wall to define therewith an adjoining upwardly and sidewise-opening receiving space.

2,640,597
FOLDING UTILITY LUNCH TRAY
John C. Thomson, Ansonia, Conn., assignor to The Beaverbrook Moulding Company, Ansonia, Conn., a corporation of Connecticut
Application May 5, 1950, Serial No. 160,232
1 Claim. (Cl. 211—88)



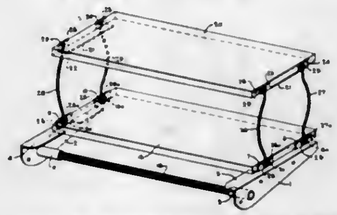
In a foldable utility tray, a pair of complementary flat tray sections adapted, when unfolded, to be disposed in horizontal edge-to-edge aligned relationship, said tray sections being hingedly connected together by two pairs of juxtaposed, overlapping lugs extending downwardly therefrom, a single transverse hinge pin mounted in said lugs and located below the abutting adjacent edges of said tray sections, the lugs on each tray section having eccentric cam portions on their peripheries frictionally engaging the lower surface of the other tray section when the inner adjacent edges of said tray sections are in abutment, said cam portions assisting in holding the tray sections in flat, horizontal alignment, and slidable and twistable tray-supporting hook brackets pivotally attached to each of said tray sections adjacent the outer ends thereof, whereby the weight of articles on the center of said tray will tend to hold it in flat condition.

2,640,598
GARMENT AND ARTICLE HANGER
Robert Peacock, St. Petersburg, Fla.
Application March 7, 1950, Serial No. 148,126
4 Claims. (Cl. 211—89)



1. A multiple hanger comprising a flat plate member, a pair of spaced lugs struck from said plate member along the central axis thereof and adjacent the top edge of the plate member, a suspension hook connected with said lugs, lug members struck from said plate member on each side of said spaced lugs and substantially rectangularly shaped wire loop members having inwardly directed ends mounted for angular movement in said lug members, each of said loop members being angularly movable with respect to the plane of said plate members through an angular distance of approximately 180°.

2,640,599
SHELF
Alexander McD. Hess, New York, N. Y.
Application December 4, 1950, Serial No. 199,032
5 Claims. (Cl. 211—90)



3. A shelf structure comprising end brackets adapted for securing to walls opposite each other, a shelf member supported upon said end brackets, another shelf member, and brackets pivotally secured to pairs of curved swingable arms whose opposite ends are pivotally secured to said end brackets, said pairs of arms adapted to be swung in the same vertical plane and to swing said second shelf into vertical and horizontal relationship with said first shelf and hold it in the vertical position.

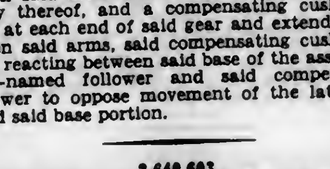
2,640,600
TOAST RACK
Edward A. Farr, Columbus, Ind., assignor to Arvin Industries, Inc., a corporation of Indiana
Application July 22, 1949, Serial No. 106,273
1 Claim. (Cl. 211—106)



A toast rack, comprising two similarly shaped resilient wires each bent to provide an upper portion having a side and two ends, the two ends being bent to provide downwardly extending portions, the two wires being placed with their upper portions coplanar and with the downwardly extending portions juxtaposed in pairs, the downwardly extending portions of each pair being secured together adjacent their upper ends and being provided at their lower ends with opposed hooks.

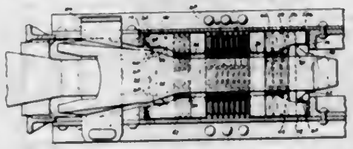
2,640,601
DRAPERY SUPPORT
John A. Van Wie, Portland, Oreg.
Application August 6, 1951, Serial No. 240,469
3 Claims. (Cl. 211—115)

1. A drapery support, comprising hanger brackets connected to a base member, a turntable including a disk member having a peripheral flange formed on its upper outer circumferential edge with teeth, a centrally disposed bolt pivotally connecting the two members together, a bar connected to the underside of the turntable disk to support drapery, a shaft mounted in the hanger brackets and extending across the base member, a gear wheel on one end



of the shaft engaging the teeth on the peripheral flange, and means on the opposite end of the shaft for manually rotating same to cause rotation of the turntable and the bar carrying the drapery.

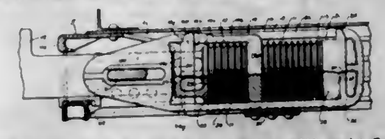
2,640,602
CUSHIONING MECHANISM FOR RAILWAY VEHICLES
Donald Willison, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application September 1, 1950, Serial No. 182,749
20 Claims. (Cl. 213—45)



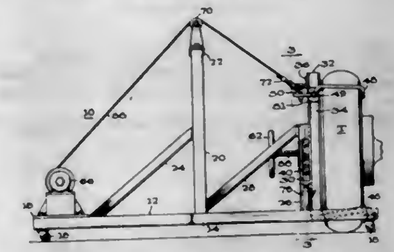
4. A draft gear for railway vehicles comprising a pair of longitudinally spaced followers, a cushioning unit extending between said followers and being compressible upon movement of one of said followers toward the other, each of said followers comprising a base portion, vertically spaced arms extending in one direction longitudinally from the lateral extremities of said base portion, and a vertical portion joining the ends of said vertically spaced arms positioned to engage the stop lugs of a draft gear pocket, a compensating follower at each end of said gear having a transverse portion for engagement with the adjacent abutment in a draft gear yoke, said compensating follower having portions extending between said arms and being movable longitudinally thereof, and a compensating cushioning unit at each end of said gear and extending between said arms, said compensating cushioning unit reacting between said base of the associated first-named follower and said compensating follower to oppose movement of the latter toward said base portion.

2,640,603
CUSHIONING MECHANISM FOR RAILWAY VEHICLES
Donald Willison, Cleveland, and Hubert L. Spence, East Cleveland, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application September 1, 1950, Serial No. 182,750
18 Claims. (Cl. 213—45)

8. A railway draft gear for assembly between the front and rear stop lugs of a draft gear pocket and between the front and rear abutments in a draft gear yoke in which the longitudinal spacing of said abutments is substantially the same as the distance between said front and rear stop lugs, said gear comprising a rear follower having portions for engaging said rear stop lugs, said follower having a yoke engaging portion offset forwardly of said stop lug engaging portions, a group of resilient pads engaging said follower, a forward follower engaging said pads and having loop portions for engagement with said front stop lugs, said pads being compressible upon forward movement of said rear follower by said yoke, a forward group of pads engaging said forward follower and being arranged in series with said first-named pads, a compensating follower interposed between the forward abutment in said yoke and said said forward group of pads, said compensating follower being movable rearwardly to compress said groups of pads, said forward group of pads and said compensating follower being carried by said loop portions, said compensating follower extending forwardly beyond said loop portions and being urged into tight engagement with the forward abutment in said yoke upon assembly of said gear in said yoke.

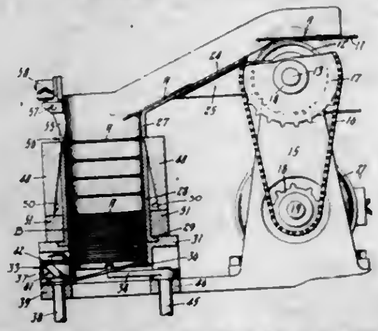


2,640,604
TIRE AND WHEEL HANDLING AND STRIPPING MACHINE
Todd M. Curley, Mahanoy City, Pa.
Application March 29, 1950, Serial No. 152,697
8 Claims. (Cl. 214—1)



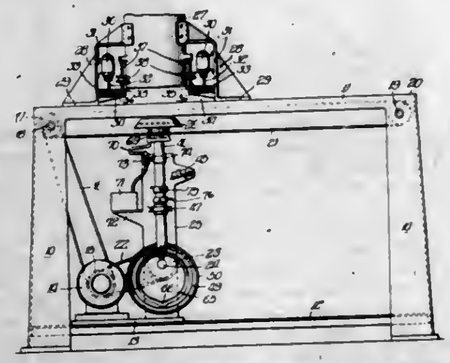
1. A motor vehicle wheel handling machine comprising a wheeled carriage having a spaced pair of forwardly projecting members adapted to receive a tire crosswise, an upright member mounted on each projecting member inwardly of the end thereof, a wheel and tire carrying frame pivotally and slidably mounted on said upright members for movement between a horizontal plane and a vertical plane while a lower portion of the tire engages the ground beneath the carriage, said carrying frame having transversely projecting portions extending from opposite sides thereof and having a rotational axis that is below the center of the frame when the frame is in a vertical position, means for holding the tire on said tire carrying frame, hoist means connected to the upper part of said carrying frame and the carriage for controlling rotation of said frame, and jack means mounted on each side of said carriage and engageable with said transversely projecting portions of said frame for raising and lowering the same.

2,640,605
MAGNETIC STACKING MECHANISM
Robert T. Chatterton, Wappingers Falls, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 30, 1947, Serial No. 794,708
4 Claims. (Cl. 214—6)



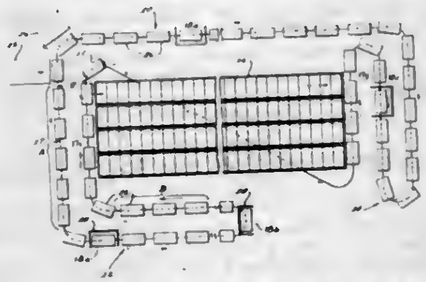
1. In a mechanism for stacking magnetizable articles having a flat extensive area such as can ends or the like, the combination of a hopper for receiving a plurality of the articles at the top portion thereof and for accumulating them in stacked position at the bottom portion thereof, means for feeding said articles individually into said hopper, a plurality of magnets substantially surrounding said hopper, each magnet having a field of its own and the fields of all magnets continuously linking with the moving articles in said hopper thereby widely distributing the lines of force of said fields in said articles for balancing and maintaining in substantial parallelism articles entering said hopper for controlling their travel through the hopper into proper position in stacked relation.

2,640,606
ARTICLE SEPARATING MECHANISM
John W. Cox, Chicago, Ill., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application March 12, 1948, Serial No. 14,411
6 Claims. (Cl. 214—8.5)



1. In a machine of the class described, means for receiving a stack of molded pulp articles which have relatively deep body portions and angularly set edge portions and which are in surface adhering nested relation, means cooperating with said stack receiving means for successively separating the margins of endmost articles and freeing such articles for movement from the stack, means to grasp the endmost article as it is freed by said margin separating means and to withdraw said freed article in a direction away from the stack, said last mentioned means including elements which are adapted to engage with and pierce the surface of said article, and means to remove the successive articles from said last mentioned means whereby said articles are successively unnested and removed from said stack.

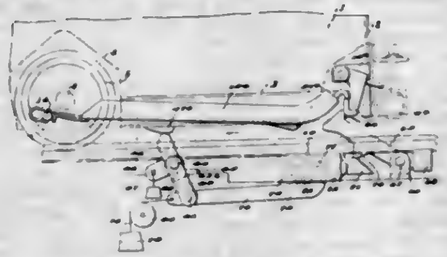
2,640,607
MULTIPLE CYCLE CONVEYER
Albert R. De Burgh, Redondo Beach, Calif.
Application July 26, 1948, Serial No. 40,716
21 Claims. (Cl. 214—16)



1. In a conveying apparatus, the combination, with a storage section having a row of entrances across one end, a track leading from each of said entrances to the opposite end of said section, each of said tracks leading to an exit of a row of exits across the opposite end of said section; of an endless cable having a run which extends alongside of said row of entrances and another run which extends alongside said row of exits, mounting means for said cable, drive means connected with said cable to keep it moving while the system is operating, track means extending along said cable, a succession of work-carrying pallets mounted upon said track means and engaged by parts attached to said cable to be pushed along said track means, means for moving predetermined pallets into the desired entrances of said storage section as they pass alongside said row of entrances, said last-named means being disposed in the path of portions of the advancing pallets and having an element adapted to be engaged by the advancing pallets to start the operation of said last-named means, and a pallet ejection means within said section positioned adjacent to each exit thereof, said ejection means having an element engaged by the advance of the next following pallet to that ejected for effecting operation of said ejection means, said ejection means including mechanism for multiplying the movement of the former pallet causing the ejected pallet to move out onto the adjacent track at a greater speed than the speed of said following pallet.

2,640,608
LATCH TRIPPING MECHANISM
Hugh W. Sanford, Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del., a corporation of Delaware
Original application January 20, 1943, Serial No. 473,013, now Patent No. 2,441,978, dated May 25, 1948. Divided and this application July 22, 1947, Serial No. 762,637
9 Claims. (Cl. 214—58)

1. In conveying mechanism, the combination with a trackway, a dumping vehicle mounted on the trackway and including a frame structure having a drop bottom dumping door, and latch means for holding the door closed and movable to release said door for dropping, of tripping mechanism mounted at the trackway for upward movement relative thereto in position to actuate the latch means, said tripping mechanism including a tripping arm mounted for upward swinging movement to a position for engaging and releasing the latch means and for lowering move-



ment from said engaging position, relative to the vehicle in a direction lengthwise of the dumping vehicle toward the front thereof during movement of the vehicle along the trackway, and wedging means arranged for engagement with said tripping arm and moving the same to an engaging position in a direction upwardly and rearwardly of the vehicle.

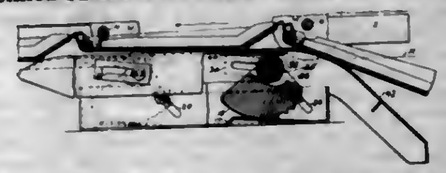
2,640,609
DOOR CLOSING DEVICE
William H. Clewell, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application March 8, 1949, Serial No. 80,187
10 Claims. (Cl. 214—63)



9. In a device for closing a car door, a base member having an upwardly inclined runway secured thereto, a roller supported on said inclined runway for rolling movement therealong, a ramp including a top plate, said ramp being supported on said roller and movable therewith from a lowered to a raised position by a door dragging along the top plate of the ramp, said top plate including a movable section adapted for movement from the plane of the top of the adjacent plate to a position above the top surface of the plate, means normally urging said movable section to its upper position, and a member supported by the ramp structure and movable by depression of said movable top plate section for locking association with said roller.

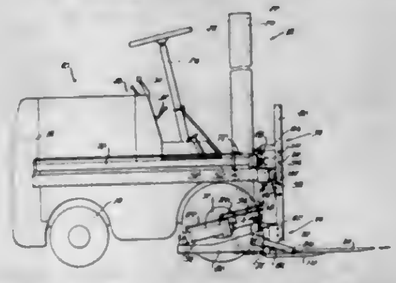
2,640,610
DOUBLE-ACTION DOOR CLOSING DEVICE
Herman H. Pancake, Glen Rock, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application January 21, 1949, Serial No. 71,870
9 Claims. (Cl. 214—63)

1. In a door closing device, a base member, a door engaging ramp member having a substantially horizontal flat top and depending side flanges, rollers movably connected to said base member, said connections including axles extending through said rollers and through elongated slots in said depending side flanges, and means having surfaces inclined to said flat top and supporting said ramp member on said rollers, said inclined surfaces moving along said rollers dur-



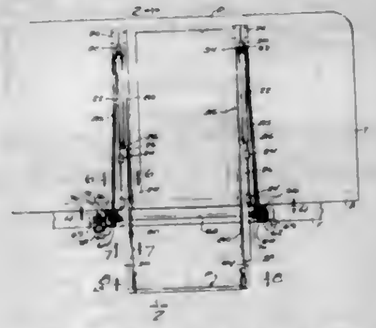
ing longitudinal movement of the ramp member thereby raising the same relative to the base member.

2,640,611
INDUSTRIAL TRUCK
George L. Turner, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application October 22, 1948, Serial No. 55,982
14 Claims. (Cl. 214—510)



1. For use with an industrial truck having an upwardly and downwardly movable load supporting carriage, the combination of load supporting means adapted to be secured to said load supporting carriage, said load supporting means including a load supporting member, load engaging means movable over said member and including clamping means adapted to grip a sheet-like pallet having a load thereon to draw it onto said member, and pallet retaining means adapted to retain the sheet-like pallet on said member when the load engaging means is employed to discharge the load from said pallet.

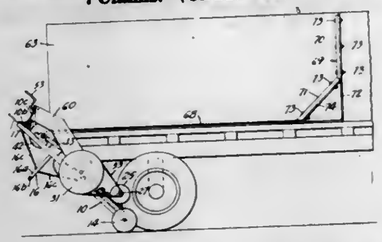
2,640,612
PORTABLE HOIST
Leonard D. Barry, Detroit, Mich.
Application May 26, 1949, Serial No. 95,477
13 Claims. (Cl. 214—75)



1. A hoist mechanism for mounting on a portable body which comprises a pair of vertically disposed parallel spaced frame members, a guide

track on each of said frame members, a first slide member to move vertically in said guide track, and one or more additional slide members mounted respectively on said first slide member and on each other to telescope vertically together, a hoist platform associated with a pair of said slide members, a plurality of cable drums, an individual cable suspending each of said slide members to a cable drum, power means for actuating said cable drums simultaneously said cable drums having different circumferences whereby the hoist platform is raised at a greater rate of speed than the first slide members and any intermediate slide members.

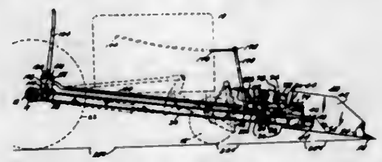
2,640,613
UNLOADING DEVICE FOR VEHICLES
Gerald L. Kuhl, Detroit Lakes, Minn.
Application August 29, 1949, Serial No. 112,997
7 Claims. (Cl. 214—82)



1. A device for unloading a vehicle body having in combination, a rotatable member with exposed ends mounted adjacent the end portion of said body, a load discharging member disposed in said body and movable therein, means connecting said load discharging member and said rotatable member for moving said load discharging member by rotation of said rotatable member, a device adapted to be positioned at either side of said body comprising a frame, means for supporting said frame, brackets mounted on said frame, a sleeve rotatable in said brackets and movable laterally therein and inter-engageable with the ends respectively of said rotatable member, a ratchet wheel mounted on said sleeve intermediate the ends thereof, a lever swingingly mounted on said sleeve, said lever having a pawl for engaging said ratchet wheel and having a cam roller thereon, a cam for engaging said roller and oscillating said lever, means for varying the position of the cam roller in operating position for varying the speed of rotation of said ratchet wheel comprising a stop member engaged by said lever and means for varying the position of the stop member.

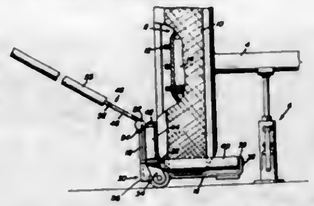
2,640,614
LATCH MECHANISM FOR SCOOPS
Victor H. Borgelt, Wisner, Nebr.
Application January 29, 1948, Serial No. 5,075
1 Claim. (Cl. 214—140)

In a scoop latch, the combination which comprises spaced parallel longitudinally disposed booms for use on a tractor, a scoop having a back, side plates, tines, and a bottom positioned between said booms, brackets extended from said side plates, pivot pins extended through the brackets, side plates and booms pivotally mounting the scoop in the booms, a cross bar connecting the booms and spaced from the scoop, spaced ears extended from the back of the scoop, a roller positioned between said ears, a pin extended through the roller and ears for journaling the roller in the ears, a floating latch-hook positioned whereby parts thereof extend between said ears, said latch-hook having a hook portion positioned to extend over said roller and a tongue portion positioned to extend below said roller, said tongue portion extended beyond the roller to facilitate elevating the scoop in dumping and providing a guide to direct said roller into said latch-hook in latching said scoop in an operative position, said latch-hook having a depending leg with spaced openings therein positioned substantially at a right angle to said tongue portion and at an acute angle in relation to a plane perpendicular to said booms and parallel to the upper edge of said latch-hook, a bell-crank shaft positioned between the cross bar and scoop and mounted with one end pivotally mounted in one of said booms and the other pivotally mounted in a bracket extended from said cross bar, a first arm extended from said



bell-crank shaft, a pin pivotally connecting said first arm to the depending leg of said latch-hook, a second arm extended from said bell-crank shaft and positioned at an angle of substantially 90° in relation to the first arm, a push-pull rod pivotally connected to said second arm, a rocker shaft journaled on said cross bar, a lever extended upwardly from said rocker shaft, positioned adjacent the boom in which the bell-crank shaft is pivotally mounted, and having an eye on the upper end for receiving a rope, a vertically disposed arm carried by said rocker shaft and positioned in alignment with said latch-hook, a rod connecting said vertically disposed arm to said latch-hook, said latch-hook having a plurality of spaced openings therein for receiving said connecting rod, a spring connected at one end to said lever and at the other to said boom adjacent which the lever is positioned, and a set screw carried by said lever and positioned to engage said boom for adjusting the return position of said latch-hook.

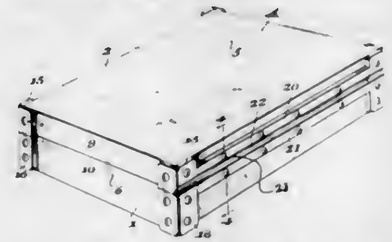
2,640,615
TIRE CARTING DOLLY
Charles Wedel, Minden, Iowa
Application September 13, 1950, Serial No. 184,642
2 Claims. (Cl. 214—332)



1. A dolly comprising a pair of side-by-side substantially L-shaped units, each unit having duplicated horizontal and vertical members, the

latter being disposed in spaced parallelism and being in a common plane, a wheel supported means supporting said L-shaped units in fixed positions relative to one another, a pair of spaced parallel horizontally disposed rollers disposed in spaced parallelism and in a common plane and mounted for free idling rotation in bearings provided therefor in said L-shaped units, said rollers being located above and in spaced parallelism with the horizontal members of the respective units, the upper ends of the vertical members of said units having bearings, a pin mounted in said bearings, sleeve means mounted on the intermediate portion of said pin, and a third roller, said third roller being vertically disposed and located between adjacent ends of said horizontal rollers and being supported in part by said wheel supported means and in part by said sleeve means.

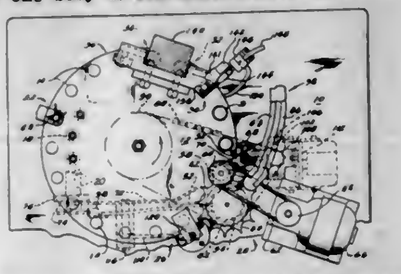
2,640,616
CONTAINER OR CLOTHES LOCKER
MacMillan Clements, Bethel, Conn.
Application April 11, 1951, Serial No. 220,438
5 Claims. (Cl. 217—12)



4. A collapsible locker comprising a rectangular top and a base each having, when assembled, abutting side, front and rear walls, the outside corners of said top and base having reinforcing members of angular construction, said top and rectangular base each comprising a single sheet of material, said material of each sheet having a stiffening layer and an outer layer, said stiffening layer comprising a plurality of adhesively connected sheets, and a combined hinge and brace construction composed of elongated strips extending along the entire rear walls of the top and base between the corner reinforcements having a layer of flexible material connecting said strips and secured to said rear walls, said strips further comprising rigid layers of laminated wood separated by a V-notch extending longitudinally thereof, the apex of the V-notch extending along the joint formed by the abutting edges of the rear walls of the top and base, certain of said reinforcing members having V-notches forming a continuation of the V-notch first named.

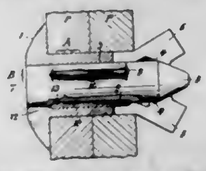
2,640,617
AUTOMATIC ASSEMBLING MACHINE
Curtis D. Spicer, Warren, Pa., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application November 19, 1947, Serial No. 786,932
12 Claims. (Cl. 218—0.5)

1. In a machine of the class described, a turret having a series of supports each adapted to receive a preformed body, means for holding one body at a time in axial alignment with each of said supports as they are successively advanced, and a reciprocable head for axially transferring said one body to said supports, said head in-



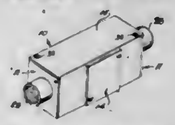
cluding drive means for rotating said one body during its axial approach toward said fixtures.

2,640,618
BLIND RIVETED JOINT
William C. Hale, Jr., Chester, Pa., assignor to South Chester Corporation, Chester, Pa., a corporation of Delaware
Application January 13, 1950, Serial No. 138,332
2 Claims. (Cl. 218—29)



1. In combination an expanding rivet consisting of a head, a shank with a longitudinally split end portion and an axial cylindrical socket bore terminating short of the distal end of the shank; and an expander pin of substantially the same diameter as the bore consisting of a cylindrical portion and a tapered end portion, said expander pin being of a harder material than said shank and having substantially three relatively narrow, longitudinal, circumferentially spaced V-grooves and associated ridges formed therein in the central longitudinal portion of the cylindrical portion thereof whereby integral ridges are formed adjacent each groove on either side thereof, said pin terminating at a distance from said grooves and ridges substantially equal to the thickness of said head whereby said shank is circumferentially expanded at spaced intervals in the region intermediate the head and split end portion when the pin is driven to a position wherein the end of the pin is flush with the head.
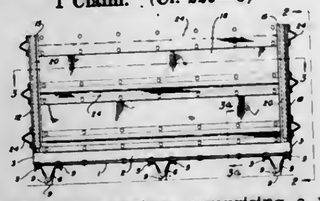
2,640,619
FITTING FOR ELECTRICAL CONDUITS
Eli Schneiderman, Hillside, N. J.
Application January 5, 1950, Serial No. 136,926
3 Claims. (Cl. 220—3.2)



1. A fitting for electrical conduits, the fitting comprising a hollow body, the hollow body com-

prising spaced parallel side members and end members, means securing said members along corresponding edges, a bottom member disposed along corresponding edges of the side and end members, and an open top; at least one of the members having a rectangular opening formed therein, a connector plate for the opening, the plate comprising an outer rectangular member, an inner rectangular member spaced parallel to the outer member and adapted to form therewith slideways for the opposed edges of the opening, and a female threaded section disposed through the plate, the center line of the female section being perpendicular to the plane of the members; the fitting further comprising a blanking plate for the rectangular opening, the blanking plate comprising an outer rectangular member, an inner rectangular member spaced parallel to the outer member and adapted to form slideways therewith for the opposed edges of the opening, and a cover member releasably disposed over the open top of the hollow body.

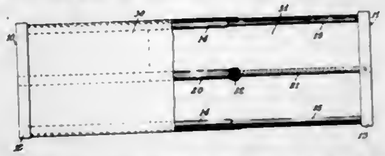
2,640,620
COLLAPSIBLE CONTAINER
Mercer D. Walklet, Akron, Ohio, assignor to The Hamlin Metal Products Company, Akron, Ohio, a corporation of Ohio
Application November 4, 1950, Serial No. 194,055
1 Claim. (Cl. 220—6)



A collapsible container comprising a rectangular bottom plate having vertical flanges at opposite ends, end plates hinged along the upper edge of said flanges for movement from a collapsed to an erected position and vice versa, removable side plates slidably carried by said end plates, supporting feet located on the under side of the bottom plate at the corners thereof, each of said feet being formed with an inwardly offset portion at its bottom end providing a downwardly facing shoulder to rest upon the upper edge of the wall of a similar container when two containers in erected condition are stacked and also providing on each of said feet a downwardly projecting portion to nest within the upper portion of said walls of said similar container, and reinforcing ribs on the outer faces of said end plates parallel to said flanges, whereby when said end plates are in a collapsed position, the feet on a superjacent container cooperate with said ribs to prevent undue relative lateral movement between the containers.

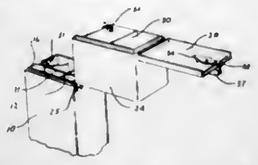
2,640,621
ADJUSTABLE PARTITION MEMBER FOR DRAWERS AND THE LIKE
Max Mokin, Brooklyn, N. Y.
Application August 17, 1951, Serial No. 242,321
3 Claims. (Cl. 220—22)

1. An adjustable partition member for drawers and the like, comprising a pair of telescopic frame elements each including a rigid end piece and one a plurality of tubular elements extending longitudinally therefrom at right angles to its end piece, and the other a plurality of rods extending longitudinally therefrom at right angles to its end piece, said rods adapted to fit slidably within the corresponding tubular elements to assemble the two frame elements; and an intermediate tubular element extending longitudinally from one of the end pieces and an intermediate rod



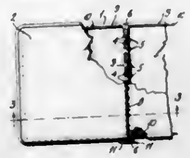
extending longitudinally from the other end piece adapted to slide within the said intermediate tubular element in the assembly, and manually adjustable means to engage the intermediate rod with the intermediate tubular element to limit the degree of telescopic action between the two frame elements.

2,640,622
CARRYING CASE FOR FISHING RODS
Joseph Sabatino, Dayton, Ohio
Application December 29, 1947, Serial No. 794,217
12 Claims. (Cl. 220—23)



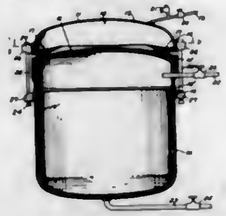
1. A carrying case for fishing rods comprising an elongate body section open at one end and adapted to receive sections of a fishing rod, a relatively short end section having therein a compartment and an opening through which fishing accessories may be inserted in and removed from said compartment, a closure for said opening, means for mounting said closure on said end section for movement into and out of a position to close said opening, means for mounting said end section on said body section for movement into and out of a position to close the open end of said body section, means for retaining said end section in said closing position, and means controlled by said retaining means to retain the closure for said compartment in its closed position.

2,640,623
COMPARTMENTED CONTAINER
Irvin C. Ryder, Arlington, Va.
Application June 7, 1951, Serial No. 230,359
7 Claims. (Cl. 220—23.4)



6. A compartmented container comprising, a box-like container formed as a unitary element from a tough but fissurable material with an integral interior partition extending from side to side and the full depth of the box, said partition formed with a plurality of vertical spaced channels and spaced side faces whereby said partition is weakened on a plane of cleavage parallel with but intermediate the side faces thereof, with a lid formed with a weakening groove aligned with and in the plane of cleavage of the partition, said lid adapted to be sealed to the upper faces of the side walls of the container and partition and said container further provided with weakening grooves in its side walls and bottom aligned with and in the plane of cleavage of the partition whereby said container can be broken on said plane of cleavage to provide complete and sealed units.

2,640,624
PRESSURE VESSEL AND PRESSURE HEAD THEREFOR
Julius D. Madaras, Detroit, Mich., assignor to Madaras Corporation, Wilmington, Del., a corporation of Delaware
Application November 7, 1949, Serial No. 125,931
4 Claims. (Cl. 220—24)



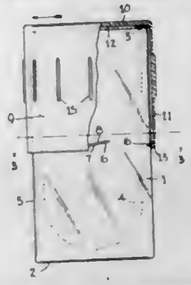
1. A closure for pressure retorts comprising a head directly engaging the retort, a dome-shaped super-head, an accordion type flexible sealing connection between the periphery of said super-head and said directly engaged head permitting a limited relative axial movement thereof, a member in fixed relation to said retort forming an abutment for said super-head, and means for admitting or withdrawing pressure fluid into or out from the chamber between said heads to respectively clamp or release the first mentioned head in relation to said retort.

2,640,625
CLOSURE CAP RETAINER
Floyd W. Blanchard, Camas, Wash.
Application December 27, 1950, Serial No. 202,958
2 Claims. (Cl. 220—38.5)



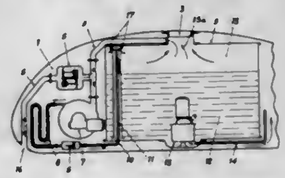
1. A closure cap for the open dispensing neck of a container, comprising in combination a length of spring wire secured at one of its ends to said cap, the opposite end of the wire terminating in a coil spring disposed on the interior of the container, the entire length of said wire between the cap and the spring being bent on a radius lying in a plane perpendicular to the longitudinal axis of the coil spring, whereby upon removal of the cap from said neck the cap will assume a position at right angles to said container at one side of the neck.

2,640,626
CONVERTIBLE CONTAINER AND CLOSURE THEREFOR
Stephens Newell, Mentor, Ohio
Application February 8, 1950, Serial No. 143,004
2 Claims. (Cl. 220—40)



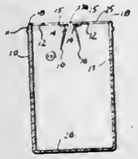
1. The combination of a cylindrical container having an open end and a closed end, uniformly inclined cam elements provided on said container in circumferentially spaced relationship, said cam elements being nominally equidistant from the ends of said container, portions of each of said cam elements extending to either side of the equator of said container, and a closure for said container having portions thereof engageable with said cam elements to releasably secure said closure to either the open end or the closed end of said container.

2,640,627
VAPOR RECOVERY SYSTEM FOR FUEL TANKS
Gandolph C. Doelter, Paris, France, assignor to Vadolt Trust, Vaduz, Principality of Liechtenstein, a company of the Principality of Liechtenstein
Application January 14, 1950, Serial No. 138,692
In Switzerland January 15, 1949
1 Claim. (Cl. 220—85)



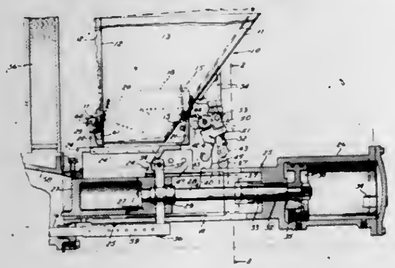
A device for condensing fuel vapours, the device comprising a tank, a combined suction and force pump for the vapours in the tank, a suction pipe connecting the pump to the uppermost part of the interior of the tank; the device further comprising a delivery pipe and a cooling device and a separator pipe, the pump being connected to the delivery pipe through the cooling device, the delivery pipe returning the fuel from the cooling device in which the vapour is condensed to the tank, the delivery pipe entering at the bottom of the tank and extending upwardly therein substantially to the top thereof, the delivery pipe being substantially surrounded in the tank by the separator pipe, the separator pipe being open at the lower end thereof and having at least one aperture formed therein adjacent the upper end extremity, and a valve connected to the suction pipe.

2,640,628
COMBINATION COMMERCIAL CONTAINER AND HOUSEHOLD MEASURING VESSEL
Frank P. Klosky, Olean, N. Y.
Application June 21, 1948, Serial No. 34,165
2 Claims. (Cl. 222—158)



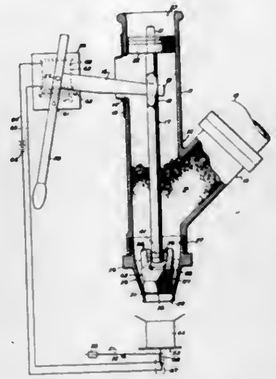
1. In a receptacle of the class described, a combination graduated commercial container and household measuring vessel having a relatively large neck portion terminating in an open top, said neck portion being provided on its interior surface with a plurality of offsets, in pairs, each pair of offsets consisting of two ridges, converging toward said open top, and forming between them a channel for guiding the contents of the container outward when the container is in a pouring position, said ridges terminating sufficiently below said open top to provide a space between the said open top and said ridge termini; each pair of offsets including two ledges lying in a plane parallel to the plane of said open top, and disposed one on each side of said channel, each ledge being connected to its respective ridge terminus and extending away from said channel.

2,640,629
FUEL FEEDING APPARATUS WITH VIBRATORY HOPPER
Hugh McDonald Thomson and Charles Ernest Mudie, St. Catharines, Ontario, Canada, assignors to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application January 25, 1947, Serial No. 724,438
11 Claims. (Cl. 222—161)



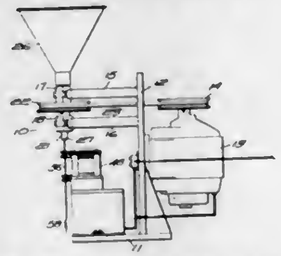
4. In combination with fuel feeding apparatus comprising a hopper and a fuel feeder, said hopper having oppositely disposed walls, one of said walls being downwardly and inwardly sloping and a fuel outlet at the bottom thereof, the feeder comprising a horizontally reciprocal fuel moving means, said feeder cooperating with the hopper outlet so as to move transversely thereof and feed the fuel away from said outlet, a pivotal mounting associated with the hopper and having an axis of rotation extending in a horizontal plane and transversely to the direction of movement of the feeder, the relationship of the mounting and the hopper being such that the hopper will normally tend to pivot in a clockwise direction on said mounting by force of gravity, a support cooperating with the downwardly and inwardly sloping wall of the hopper and normally supporting the hopper against pivoting in said clockwise direction, a hopper actuator comprising a cam pin movable with the ram, a pivotally mounted cam having one engaging means and other engaging means extending radially from said pivot in different directions, the one engaging means cooperating with said hopper, said other engaging means extending into the path of movement of the cam pin to be acted on thereby, the arrangement being such that the cam is pivoted in a counterclockwise direction upon engagement of the cam pin with said other engaging means thereby causing said one engaging means to support and to move the hopper on said pivotal mounting in a counterclockwise direction away from said normal supporting relationship during a part of the reciprocal movement of the ram and upon another part of the movement of the ram to release the hopper to return in a clockwise direction to said normal supporting position by force of gravity to engage the support abruptly thereby agitating the fuel therein.

2,640,630
SHUTOFF VALVE FOR AUTOMATIC WEIGHING MECHANISMS
Frank C. Genco, Buffalo, N. Y.
Application March 29, 1949, Serial No. 84,223
1 Claim. (Cl. 222—509)



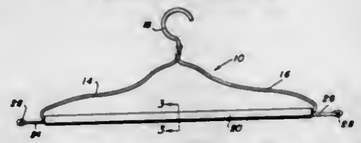
A positive closure dispensing valve comprising an elongated valve casing, a nozzle connected to the casing at one end thereof, said nozzle being formed with an outwardly converging conical bore merging into a discharge orifice at the end of the nozzle, the junction between the bore and orifice being defined with a slight circular seating region, a valve element including a cylindrical plug having a slightly rounded and cupped end face adapted to seat on said region, the opposite end of the valve element being formed with lugs, a link loosely mounted between the lugs for rocking movement with respect thereto, said link extending lengthwise of the casing, a detachable accelerating weight on the end of the link adjacent the opposite end of the casing, a side opening formed in the casing below the weight, an operating lever projecting through the opening and connected to the link, an inlet chute formed in the casing between the side opening and the valve element, and an atmospheric air passage formed in the casing above the chute.

2,640,631
MECHANISM FOR THREADING BEADS
Virgy E. Litterio and Malcolm T. Blease, Providence, R. I.
Application April 14, 1949, Serial No. 87,394
16 Claims. (Cl. 223—48)



1. In a bead threading machine, a hopper adapted to receive a number of pierced beads, a bead aligning tube, guide means interposed between the hopper and the tube for guiding beads in sequence from the hopper to the upper end of the tube, means cooperating with the tube for aligning the beads in said tube with their piercings in substantially vertical position, and means detachably mounting a needle in bead-threading relation to the lower end of the tube to receive the aligned beads thereon.

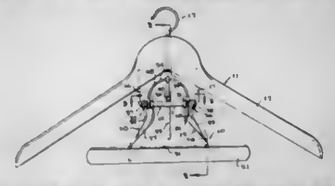
2,640,632
CLOTHES HANGER
Raymond F. Price, Tucson, Ariz.
Original application February 27, 1948, Serial No. 11,400, now Patent No. 2,567,348, dated September 11, 1951. Divided and this application July 13, 1951, Serial No. 236,614
2 Claims. (Cl. 223—89)



1. A clothes hanger comprising a wire frame including a horizontal rail, a tubular guide loosely surrounding said rail, and a pair of arms having inner end portions of uniform diameter slidably received in said guide under said rail and frictionally engaging the rail and the inner periphery of the guide to retain the arms extended from the guide.

2,640,633
GARMENT HANGER OF THE CLAMP TYPE
Werner G. Olpe, Jamaica, N. Y.
Application October 27, 1950, Serial No. 192,564
6 Claims. (Cl. 223—91)

1. A garment hanger of the clamp type comprising a support, a pair of levers arranged in criss-cross relation with respect to each other positioned longitudinally of said support and each mounted intermediate its ends on said support for pivotal movement about an axis extending longitudinally of the latter, a pair of arcuate members positioned longitudinally of and facing away from said support and connected to said levers, said arcuate members extending outwardly at an angle to the vertical plane passing through said support, a pair of clamp bars extending longitudinally of and carried by said levers below the crisscross point of the latter and movable into clamping engagement with a garment supported therebetween in response to



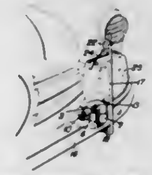
the movement of said arcuate members toward each other, and means engaging said arcuate members for holding said arcuate members in select positions of movement toward each other.

2,640,634
PORTABLE CLOTHES CARRIER FOR AUTOMOBILES
Lester V. Francis, Round Lake, Ill.
Application April 4, 1950, Serial No. 153,822
3 Claims. (Cl. 224—29)



1. A portable clothes carrier for automobiles, comprising a supporting standard adapted to rest on the car floor behind the front seat and extending upwardly therefrom, said standard including a pair of legs spaced apart at their lower ends and converging upwardly, means securing together the upper ends of said legs, hanger supporting means mounted on said standard adjacent the upper end thereof and extending rearwardly therefrom, and means associated with the rear end of said supporting means to support the carrier and hold it against shifting.

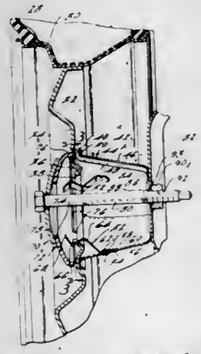
2,640,635
WATERBAG CARRIER
James F. Garrett, Pampa, Tex., assignor of one-half to Harry R. Garrett, Pampa, Tex.
Application November 14, 1950, Serial No. 195,674
2 Claims. (Cl. 224—42.03)



1. A water bag carrier for vehicles comprising a pair of clamping plates adapted for attaching

to a part of a vehicle adjacent its bumper, an upstanding support having an angular lower end positioned under the bumper and formed with a threaded upstanding stud connecting the clamping plates to each other in clamping engagement to the vehicle and a V-shaped saddle supported by the angular lower end of the support under the bumper.

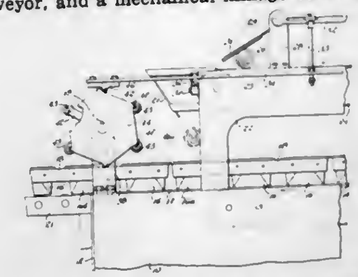
2,640,636
WHEEL CARRIER
Charles E. Dysarz, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 14, 1948, Serial No. 44,290
9 Claims. (Cl. 224—42.24)



1. In a support for road wheel structure, said road wheel structure including a wheel fastening flange extending radially inwardly and having a turned inner margin defining a hub opening, said support having flange means, latch means, and a metal shell, said shell having a central axis and terminating therealong in the flange means and having the latch means thereadjacent and carried by the support being adapted to receive coaxially the wheel structure, the flange means being disposed in a general transverse plane to the shell and effective concentrically to abut said wheel fastening flange, said latch means comprising spring fingers presenting outer yieldble portions conforming to a path of revolution having a slightly larger outside diameter than the diameter of the hub opening, the aforesaid outer yieldable portions of said spring fingers projecting beyond the plane of the flange means for reception within said hub opening when said wheel fastening flange is placed concentrically adjacent said flange means, and being effective yieldably to engage the inner margin of the wheel structure to hold the wheel structure in juxtaposed relationship to the plane of the flange means.

2,640,637
MACHINE FOR LOADING BAKING PANS
Walter Baechle, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a corporation of Ohio
Application February 23, 1950, Serial No. 145,847
2 Claims. (Cl. 226—2)

1. In a machine for loading dough loaves in pans, the combination of an endless type pan feeding conveyor for advancing baking pans one after another to pass a loading station, an endless type dough conveyor mounted above the pan feeding conveyor and having a discharge end above the loading station, the dough conveyor being adapted to release dough loaves above the loading station one at a time, a releasable stop member mounted above the pan conveyor at a pan holding station beyond the loading station and comprising a plurality of stop arms each adapted to extend a limited distance into one of the pans when the pan is at the pan holding station to halt another of the pans at the loading station, a release flap mounted above the dough conveyor in the path of dough loaves on the dough conveyor, said release flap being displaceable by a dough loaf traveling along said dough conveyor, and a mechanical linkage between the



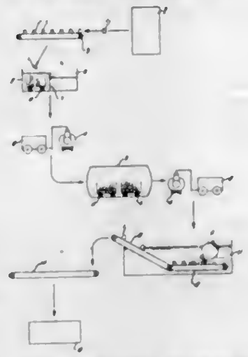
flap and the pan stop including a star wheel associated with said pan stop and a pawl adapted for cooperative engagement with said star wheel, said pawl being moveable in response to displacement of said flap, said linkage being effective to release the pan stop when a dough loaf displaces the release flap and thereby to release the pan at the pan holding station to permit the pan at the loading station to advance toward the pan holding station, the stop being adapted to arrest a succeeding pan at the pan holding station to arrest a succeeding pan at the loading station when the dough conveyor releases the dough loaf above the loading station, whereby the dough loaf falls into the last mentioned pan.

2,640,638
APPARATUS FOR PACKAGING COMMODITIES WITH TROUGH MEMBER SUPPORTED BETWEEN PLATES
Charles T. Nichols, Portland, Maine, assignor to Quik Pac Division of H. Wesley Hutchins Company, Auburn, Maine
Application May 17, 1949, Serial No. 93,777
2 Claims. (Cl. 226—18)



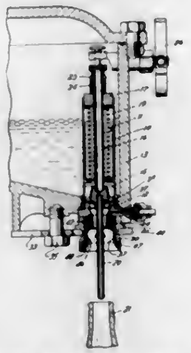
2. A unit for use in filling and holding bags including supporting plates with a trough mounted between and secured to the plates, a terminal of one side of the trough being extended to provide a bag engaging blade, the unit also including a second blade hinged to the other side of the trough for coaction with the first blade, the unit being bodily movable for selective positioning, on a substantially horizontal support, during the bag holding and filling operation.

2,640,639
SYSTEM OF CAN TRANSFER
Garrett B. Stryker, Fullerton, Calif., assignor to Hunt Foods, Inc., Los Angeles, Calif., a corporation of Delaware
Application November 20, 1948, Serial No. 61,273
2 Claims. (Cl. 226—2)



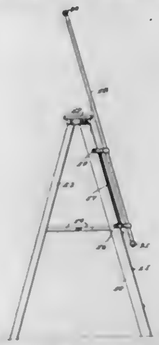
1. The method of loading dentable articles into containers, comprising providing a tank divided into two compartments by a partition, the upper edge of which terminates short of the upper side edges of the tank, placing a quantity of liquid in the compartments sufficient to fill one compartment up to the level of the top edge of the partition and to only partly fill the other compartment up to said level, immersing a container in the fuller compartment, dumping articles into the fuller compartment to cushion the articles by impact with the liquid and gravitate the articles into the container and to displace liquid from the fuller compartment into the other compartment to raise the level in said other compartment, and then repeating the process by placing a container in said other and now fuller compartment and dumping articles into the latter container in said other compartment.

2,640,640
BOTTLE SEAL FOR BOTTLE FILLING MACHINES
George L. N. Meyer, Milwaukee, Wis.
Application July 23, 1947, Serial No. 762,931
5 Claims. (Cl. 226—115)



1. In a bottle filling machine of the character described, a filler bowl, a filler valve in said bowl, a retaining ring in engagement with said filler valve, means to secure said ring against said filler valve to retain the valve in the bowl, a bottle seal mounted within said ring in frictional engagement therewith and having an aperture therein for the passage of liquid therethrough, a skirt on said bottle seal extending below the lower edge of the retainer ring to form a guide for bottles entering said valve.

2,640,641
SAFETY RAIL ATTACHMENT FOR STEPLADDERS
Joseph S. Tepper, Monrovia, Calif.
Application June 15, 1951, Serial No. 231,776
3 Claims. (Cl. 228—67)

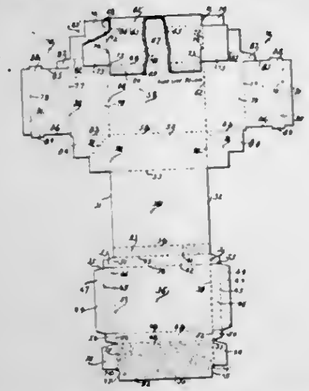


1. In combination with a ladder having side members, a safety rail attachment comprising brackets pivotally secured to one of said side members at spaced apart locations therealong, each of said brackets comprising a tongue portion pivotally connected at one end to the side member and a loop portion pivotally secured to said tongue portion near the other end of the latter with said other end of the tongue portion disposed within said loop portion, a link pivotally connected at its ends to said brackets to maintain the tongue portions substantially parallel to each other, and an elongated rail extending slidably through said loop portions, the ends of said tongue portions within said loop portions being rounded off below the upper surfaces thereof and engaging said rail to hold the latter in selected positions of longitudinal adjustment relative to said brackets against downward pressure on said rail.

2,640,642
DISPLAY CARTON
William P. Frankenstein, Cincinnati, Ohio
Original application January 2, 1948, Serial No. 160. Divided and this application November 27, 1948, Serial No. 62,276
7 Claims. (Cl. 229—16)

1. In a display box or carton formed from a single blank cut and scored to form a base portion and a cover portion hingedly connected to one another through a hinge fold line, said base portion including a base supporting panel and an upwardly spaced goods supporting and display panel, spacing panels spacing said goods supporting and display panel from said base supporting panel including a spacing panel adjacent the hinge fold line between the base portion and cover portion said cover portion comprising a cover panel with front, back and end walls pro-

jecting therefrom toward the said base portion, each of said front, back and end walls projecting from said cover panel an equal amount said goods supporting and display panel and covering panel being of at least equal area and said goods supporting and display panel being adapted to be embraced by the cover walls and project into the cover toward the cover panel when the cover is closed with said spacing panel adjacent the hinge fold line in contact with said cover back wall, means on one of said cover and base portions connectable to the other beyond the hinge fold line for reinforcing the hinge between the base portion and cover portion, said base supporting panel having a portion projecting beyond the goods supporting and display panel, and a connecting panel integral with the edge of the projecting portion of said base supporting panel and integral with a spacing panel, other than said spacing panel adjacent the hinge fold line, with said connecting panel overlying the projecting portion of the base supporting panel and with said projecting portion of said base supporting panel and said overlying connecting panel forming a flange beyond the goods supporting and display panel to be engaged by a cover projecting wall to limit the closing of the cover on the base.

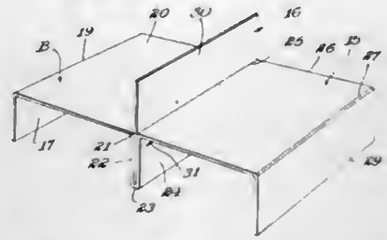


2,640,643
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application July 9, 1948, Serial No. 37,767
11 Claims. (Cl. 229—34)



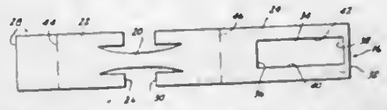
1. In a shipping and display carton of the class described formed from a single blank comprising a main panel from each of the four sides of which extends a wall, each wall comprising an inner and an outer wall member with said outer wall members integral with the main panel and articulated thereto, at least one wall being of greater height and having its upper end a greater distance from the main panel than the remaining walls, two of said walls forming a first pair of opposing walls and each having its inner and outer wall members spaced from one another by an integral top wall member and each of said walls having its inner wall member articulated to the main panel and its outer wall member whereby said walls may be folded flat and erected by merely raising same to positions normal to the main panel, the remaining walls forming a second pair of opposed walls having their outer wall members of a height less than the height of the walls of greater height and of a length equal to the length of the main panel to overlap the ends of the wall members of the first pair of walls, closure flaps at the ends of one of the inner and outer wall members of, at least, the wall of greater height for closing the space therebetween and particularly the portion thereof above the lesser height walls, and interengageable means on certain of said inner wall members cooperating with one another for locking the walls in their erected positions.

2,640,644
PARTITION PAD
Russell J. Hennessey and Morton B. Jameson, St. Paul, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application July 5, 1949, Serial No. 103,132
6 Claims. (Cl. 229—42)



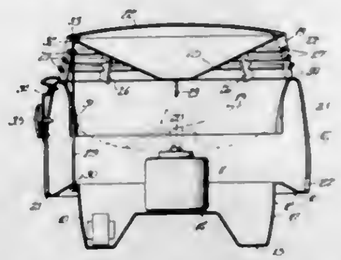
1. A partition wall structure in combination with a rectangular container and arranged to divide the interior of the container into four parts, the structure including a partition wall panel extending at right angles between two of the rectangularly arranged container walls, a pair of leg panels enclosing one wall of said partition wall panel and extending on opposite sides of said partition wall panel to a point intermediate the edges thereof most closely adjacent said two container walls, a pair of partition walls foldably connected to said leg panels and extending in opposed relation to said partition wall panel on opposite sides thereof and at right angles thereto, and leg panels foldably connected to the ends of said partition walls and lying against the inner surfaces of the other two walls of the container.

2,640,645
HANDLE CONSTRUCTION FOR CARTONS AND THE LIKE
Abner Elmore Brown, Richmond Heights, Mo.
Application January 17, 1949, Serial No. 71,320
11 Claims. (Cl. 229—52)



3. A handle member made from a sheet of cardboard or like material, comprising a relatively narrow flexible handle section, and relatively wide elongated first and second support sections secured to the ends thereof, the outer portion of the first support section containing an opening having an inner edge and an outer edge, said outer portion being folded upwardly and inwardly so that the handle section is exposed in said opening, the inner edge of said opening coinciding with one end of said handle section, the outer portion of the second support section being folded upwardly and inwardly so that it overlaps the end of the outer portion of said first support section, the end of the outer portion of said second support section coinciding with the other end of the handle section.

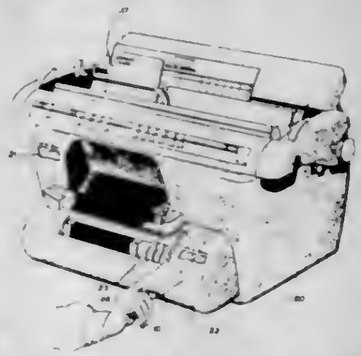
2,640,646
ELECTRIC CIRCULATING FLOOR FAN
Charles E. Jones, Chicago, Ill., assignor to Cory Corporation, Chicago, Ill., a corporation of Delaware
Application April 7, 1949, Serial No. 86,071
6 Claims. (Cl. 230—259)



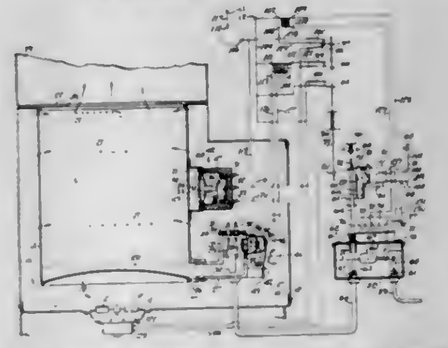
1. A fan assembly comprising an upwardly opening base member having a raised central portion for supporting a fan motor and fan blade construction thereon, said base member having an outwardly directed peripheral flange, a substantially vertical side wall member extending upwardly from the outer edge of said flange, said side wall member extending above said fan blade construction, and forming a guard therefor, and a top member comprising a central air deflecting cone portion and a perforate peripheral forming portion extending downwardly of the periphery of said cone portion and supported on the upper edge of said side wall member, said base member having perforations therein permitting air circulation upwardly through the casing formed by said members.

2,640,647
MAGNETIZABLE RECORD ELEMENT
James H. Rand, Jr., Darien, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application January 13, 1950, Serial No. 138,283
9 Claims. (Cl. 235—61.12)

6. A record receiving element for use in combination with a bookkeeping machine of the character described, the bookkeeping machine including a balance slot adapted to receive the record receiving element, the slot having an enlarged portion at one end, the record receiving element comprising a magnetizable thin metal sheet having a turned over portion at one end forming a clamp, and the free edge of the clamp portion being raised slightly upward and away from the face of the sheet portion, said clamp serving as means of attaching an identifying ledger card to the record element when the record element is out of the machine, said turned over portion and raised edge being receivable in the enlarged portion of the slot, the walls of the enlarged portion of the slot being complementary to the turned over clamp portion and raised edge of the record element whereby the record element is enabled to be accurately positioned in the slot for receiving a code record.



2,640,648
CONTROL FOR VAPORIZING OIL BURNERS WITH ELECTRIC IGNITION
Albert L. Judson, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application October 16, 1950, Serial No. 190,316
10 Claims. (Cl. 236—1)



1. A control system for vaporizing oil burner of the type comprising a combustion receptacle in which oil is progressively evaporated for continuous combustion by the heat of said combustion and to which air is progressively supplied to complete said combustion, said system comprising; electric means for igniting said oil in said receptacle; an oil valve adapted to control the flow of oil to said receptacle; a first means biasing said valve to its closed position; a heat responsive means adapted on a call for heat to instantly render said biasing means ineffective; a second means biasing said valve towards its open position; a bimetal restraining means in initial spaced relation to said second biasing means, means including said second biasing means effective when said heat responsive means responds to a call for heat to quickly open said valve a limited amount determined by said bimetal restraining means, and means including an electric heater for said bimetal restraining means energized upon said call for heat to decrease the restraining action of said bimetal restraining means to allow said valve to be gradually opened to a pre-set full open position by said second biasing means; means cooperating with

said condition responsive means to initiate the operation of said ignition means; a cold-closed temperature responsive means associated with said receptacle; means adapting said temperature responsive means to terminate the operation of said ignition means; and means operatively associated with said temperature responsive means and said condition responsive means to render said condition responsive means ineffective to initiate the operation of said ignition means and to render said first biasing means ineffective when said receptacle is above a predetermined temperature.

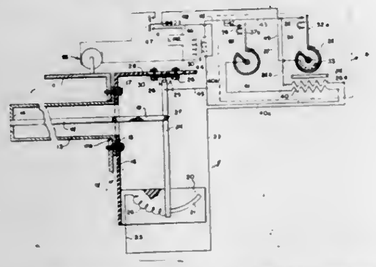
4. The system of claim 1 including additional means adapted to vary the opening of said valve in response to said condition, said additional means including circuit means and means included in said heat responsive means and said electric heater for said bimetal means to increase the current supplied to said electric heater to increase the opening of said oil valve as required by said heat responsive means.

2,640,649

THERMOSTATIC CONTROL APPARATUS FOR HEATING SYSTEMS

George W. Rusler, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application June 25, 1949, Serial No. 101,414
5 Claims. (Cl. 236—9)



1. Apparatus of the type described comprising means responsive to a rate of temperature change, said means having a rod and tube actuated potentiometer, said potentiometer having a coiled resistor connected at one of its ends to a contact bar and a wiper arm normally engaging their junction and movable over said resistor upon temperature rise and said bar upon temperature fall, a thermostat, and an electric heater for said thermostat connected to said potentiometer at the other end of said resistor for regulation thereby.

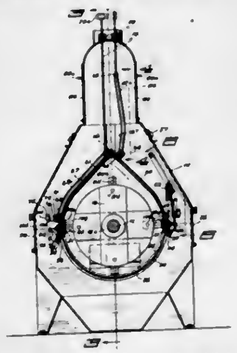
2,640,650

HAMMER MILL SCREEN CONSTRUCTION

Howard C. Jacobson, St. Paul, Minn.

Application March 13, 1950, Serial No. 149,403
5 Claims. (Cl. 241—89)

1. A hammer will having in combination, a casing, a rotatable beater in said casing, a screen extending circumferentially about said beater at the lower side thereof, screens of different mesh at the upper part of said beater and at each side thereof respectively, said mill being adapted to be located on one floor of a building, plates covering said last mentioned screens respectively for rendering the same inoperative, means extending upwardly from said plates adapted to extend to the floor above said floor, said means being adapted to be engaged by the operator for moving either of said plates upwardly to expose



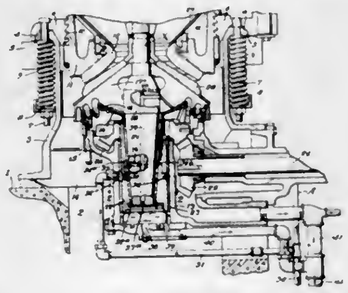
either of said last mentioned screens for rendering the same operative.

2,640,651

GYRATORY CRUSHER SHAFT LUBRICATION

Oscar C. Gruender, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin

Application July 19, 1949, Serial No. 105,541
1 Claim. (Cl. 241—215)



In combination with a gyratory crusher having a main frame, a bowl and a head, and means for gyrating it within the bowl, a fixed sleeve forming part of the main frame, the fixed sleeve having a vertical, generally cylindrical bore, a rotatable sleeve mounted within the fixed sleeve, the rotatable sleeve having an eccentric aperture, a crusher shaft positioned within the eccentric aperture, the crusher shaft having a generally axial internal oil passage, closed at the bottom, a head on the crusher shaft and a bearing support therefor, located above the fixed sleeve, an oil passage extending generally radially from the axial oil passage in the shaft, through the head, to said bearing support at a level well above the bearing support, and means for supplying oil to the axial duct in the crusher shaft, said means including a supply duct discharging to the interior bore of the fixed sleeve generally midway between the top and bottom of the bore, the rotatable sleeve having a circumferential external recess and a circumferential internal recess, the two recesses being connected by an oil supply duct in the rotatable sleeve, the crusher shaft having a generally radial oil receiving passage

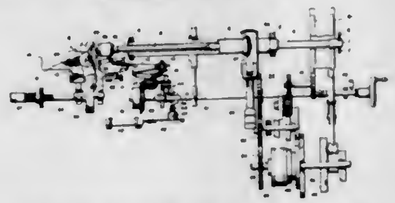
aligned with and in communication with said internal recess and extending to the axial passage within the crusher shaft.

2,640,652

REVERSIBLE COIL WINDING MECHANISM FOR STATOR WINDING MACHINES

Thaddeus F. Harvey, South Bend, Ind.

Application September 23, 1949, Serial No. 117,343
9 Claims. (Cl. 242—1)



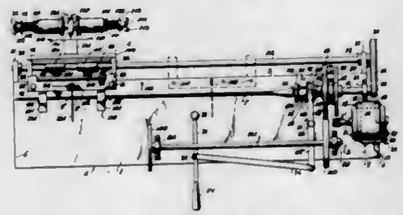
1. In a coil winding machine, the combination of a wire gun mounted for reciprocating movement along a predetermined path, a drive means having connection with said wire gun for reciprocating said wire gun at a continuous predetermined rate, means driven by said drive means for turning said wire gun through a predetermined angular distance during the end portion of each stroke, said turning means operating intermittently in successively alternate directions, means connected between said drive means and said wire gun and operable to interrupt the reciprocating movement of said wire gun for the period of one stroke thereof and permit two successive operations of said turning means at the end of one wire gun stroke, and means for actuating the last named means.

2,640,653

WINDING MACHINE

Elmer Wodetzky, Lynbrook, N. Y., assignor to Daniel J. Silverstein, New York, N. Y.

Application May 1, 1947, Serial No. 745,186
8 Claims. (Cl. 242—7)



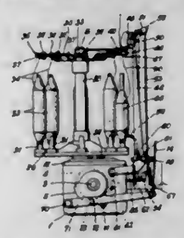
1. An improved machine for applying strand windings to elongated rods which includes, means for rotating the rod about its longitudinal axis, automatic means for traversing a plurality of winding strands over the same section of said rod, a plurality of strand guiding elements associated with said traversing means for directing the strands in a manner to enwrap spirally laid strand windings over the same rod section with each convolute of one strand alternating with and compactly interleavened between the adjacent convolutes of other strands, said strand guiding elements including means for angularly directing one strand into winding contact with the rod section at a point substantially in advance of the point of winding contact of the adjacent following strand, and means to correlate the speed of such traverse with the speed of rotation of the rod whereby a smooth and compact winding is effected.

2,640,654

THREAD SUPPLYING MECHANISM

Walter Schweiter, Horgen, Switzerland, assignor to Maschinenfabrik Schweiter A. G., a corporation of Switzerland

Application May 27, 1947, Serial No. 750,663
In Switzerland July 29, 1946
4 Claims. (Cl. 242—35.6)



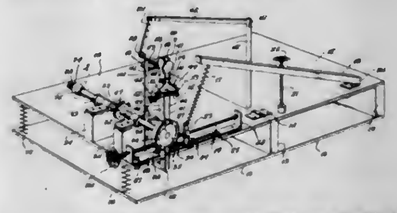
1. A thread furnishing mechanism comprising a rotatable member having a plurality of positions for cops to carry cops to an unwinding station successively, a thread-guiding eye for each of said plurality of cop positions, a thread clamp for each of said eyes to hold the starting end of a thread extending from its respectively associated eye, said eyes and clamps being connected to said rotatable member for movement therewith, means to rotate said rotatable member before a cop at the unwinding station has been completely unwound to bring another cop to the unwinding station and to advance the incompletely unwound cop to another station beyond the unwinding station, each of said eyes and its associated clamp being so related that a thread extending from an eye associated with a cop position at said unwinding station to its respective clamp is adjacent the thread extending from an incompletely unwound cop at said another station, and a thread tier to tie threads extending from said two stations, said tier being disposed adjacent the place where the threads are so adjacent..

2,640,655

UNIFORM TENSIONING DEVICE

Albert Johnson, New York, N. Y.

Application April 28, 1949, Serial No. 90,143
3 Claims. (Cl. 242—45)



1. In a device for tensioning the unwinding of a strand from a spool, a base, a platform balanced on said base and having upward movement, a shaft rotatably supported on said platform and adapted to receive a spool for turning

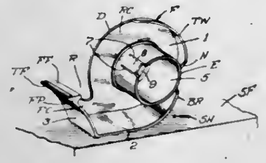
the shaft by the unwinding of the strand therefrom, brake shoes, oppositely disposed brake arms carried by said platform and having resiliently spaced ends and mounting said shoes for braking action on the shaft, oppositely disposed rock arms carried by said spaced ends of the brake arms, resilient means arranged between said spaced ends of the brake arms for exerting an outward tension on the brake arms and resilient means arranged between said spaced ends and the rock arms for exerting inward tension on the brake arms by inward movement of the rock arms, a second rotatable shaft supported by said platform and having a cam arranged between said rock arms for moving the rock arms to vary the tension of said resilient means on said brake arms, and a lever affixed to said second mentioned shaft and pivotally supported at its opposite end by said base for rotating said shaft with the movement of the platform to thereby exert braking action of the shoes on the shaft in relation to the weight of the spool supported on the platform.

2,640,656

DISPENSER FOR SELF-ADHESIVE TAPE

William Harry Donkin, Ealing, London, England, assignor to Rexel Products of Canada Limited, Toronto, Canada

Application December 28, 1950, Serial No. 203,103
In Great Britain November 21, 1950
9 Claims. (Cl. 242—55.5)



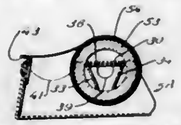
8. A dispenser adapted to removably accommodate a roll of self adhesive tape; comprising, a shell embodying a bottom wall adapted to be seated on a supporting surface and having a forwardly arranged front wall extending upwardly relative to said bottom wall and merged therewith, said shell having one side wall only, said side wall being substantially normal to said bottom wall and said front wall and integral with both of said last mentioned walls, a tubular portion substantially normal to said side wall and extending transversely of and within said shell and spaced from said bottom wall and having its inner end merged with said side wall and having a free unsupported outer end, said tubular portion having spaced slits leading to and interrupting said outer end to define a resilient member, said tubular portion adapted to rotatably support said roll and said resilient member having a lip projecting radially outwardly to disengageably cooperate with said roll to removably hold the latter on said tubular portion and contiguous to said side wall, and a ledge at the top of said front wall having a posterior portion to which tape unwound from said roll may be adhesively secured and having an anterior toothed portion to facilitate severing of said tape when unwound from said roll, said shell having an open side face extending across the length and height of said shell and disposed opposite to said side wall for convenient insertion of said roll into said shell and concomitantly on said tubular portion pursuant to automatic actuation of said lip by said roll to flex said resilient member in a direction towards the inside of said tubular portion.

2,640,657

TAPE DISPENSER

Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota

Application February 21, 1951, Serial No. 212,174
6 Claims. (Cl. 242—55.5)



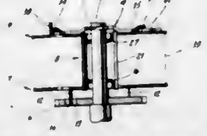
1. A tape dispenser including a channel shaped body including a base and generally parallel sides connected to opposite edges thereof, a pair of flaps foldably connected to said side panels and extending toward each other in opposed relation, a flap on said bottom panel foldable over said first named flaps, means securing said flaps together, and tape roll supporting means on said side panels.

2,640,658

RIBBON SPOOL

Oscar W. Swanson, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 22, 1951, Serial No. 262,951
4 Claims. (Cl. 242—70)



1. A disjointable ribbon spool adapted for placement on a rotatable spindle and comprising, a first flange including a central conical projection having at its top interior edges defining a bore adapted to fit the spindle, said flange having a diametrical slit bisecting said projection and terminating intermediate the periphery of the flange, said conical projection and the flange portions between its periphery and the ends of said slit jointly effecting a frictional locking of the bore-defining edges to the spindle, a second flange having a central conical projection and a bore adapted to fit the spindle, a sleeve-like hub interposed between said flanges, the interior of said hub at each end snugly receiving the respective conical projections to centralize the hub with the respective flanges, and a device on the second flange adapted to engage the spindle and in cooperation therewith to hold said flanges and hub in assembled relation.

2,640,659

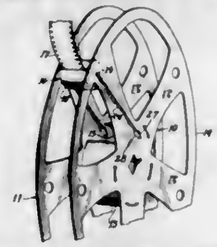
FILM ATTACHING MEANS FOR REELS

Theodore R. Biko and Daniel S. Deutsch, Los Angeles, Calif.

Application March 4, 1950, Serial No. 147,742
5 Claims. (Cl. 242—74)

1. The combination comprising a film reel having a hub portion, a holding element for retaining the end of the film and freely displaceable by gravity both outwardly and inwardly of the reel

between positions adjacent the hub and peripheral portions thereof, and a pair of holding means releasably engageable by rotation of said element in opposite directions relative to the reel



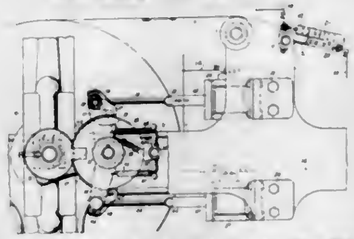
at a substantially single position radially thereof to retain the element in either of two positions against outward movement from the hub portion.

2,640,660

DEVICE FOR LATERALLY ADJUSTING WEBS

Richard Winkler, Rengsdorf, Germany, and Max Dünnebier, deceased, late of Neuwied, Germany, by Kurt Dünnebier, administrator, Neuwied, Germany, assignors to Baltimore Paper Company, Kansas City, Mo., a corporation of Missouri

Application June 2, 1951, Serial No. 229,568
In Germany November 2, 1949
12 Claims. (Cl. 242—76)



1. In a machine of the type described, a straightening device for a web, comprising a web-carrying roll, a feeler member engaging at least one edge of the web and adapted to be deflected in accordance with lateral deflection of the web in either direction, an electric circuit, means whereby lateral deflection of the said feeler member in one direction closes said circuit, a second electric circuit, means whereby deflection of the feeler member in the opposite direction closes said second circuit, a screw-threaded spindle, two ratchet wheels mounted co-axially with each other and with said spindle, two rocker arms both mounted for swinging movement about the axis of said wheels, and means actuated by either of said circuits to swing one of said arms and to impart step-by-step motion to said spindle to move the web-carrying roll to compensate for the deflection of the web in either direction.

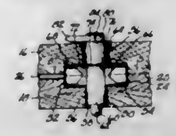
2,640,661

FISHING REEL

Matthew E. Lee, South Bend, Ind.

Application August 31, 1948, Serial No. 47,095
1 Claim. (Cl. 242—84.7)

A fishing reel adapted to be mounted in a cavity of a fishing rod having a transverse bore and a line guide passage each communicating with said cavity, comprising a metal liner for said cavity and bore having spaced end walls and a cylindrical wall portion within said cavity, a shaft adapted to extend through said bore and to project therefrom at its opposite ends, said shaft being journaled in and axially shiftable in said liner, a reel journaled on said shaft and adapted to be rotatably confined within said cavity, said reel having a rotative clearance in said liner at said end wall portions and at said cylindrical wall



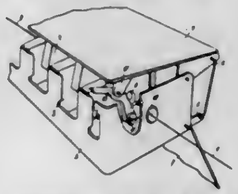
portion less than the thickness of a fishing line wound on said reel, a crank mounted on a projecting portion of said shaft, a releasable clutch forming a driving connection between said reel and shaft and including a radially projecting pin carried by said shaft and a plurality of radially projecting shoulders carried by one end of said reel, and a spring urging said pin in engagement with said shoulders, said shaft being axially slidable relative to said reel to disengage said pin and shoulder.

2,640,662

THREAD TENSIONING DEVICE

Lambertus te Strake, Deurne, Netherlands

Application September 4, 1951, Serial No. 245,045
In the Netherlands October 25, 1950
1 Claim. (Cl. 242—154)



A thread tensioning device for a textile machine comprising a stationary and a movable jaw, extensions on each said jaw, extensions on one of said jaws being extendable between those of the other said jaw, thread being guided between the extensions in a zig-zag line, a bell-crank lever pivotally connected to the movable jaw, one arm of said lever having an eye therein, the other arm of said lever bearing against the stationary jaw, said movable jaw in working position bearing on an arm of said lever, said lever being actuated by thread passing through said eye and on increase of thread tension said lever pivoting and said arm bearing against the stationary jaw forcing said jaws apart.

2,640,663

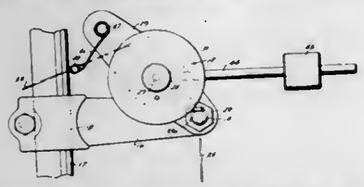
DEVICE FOR CONTROLLING THE TENSION OF A LONGITUDINALLY MOVING WIRE

George H. Leland, Dayton, Ohio, assignor to G. H. Leland, Inc., Dayton, Ohio, a corporation of Ohio

Application February 1, 1949, Serial No. 73,962
15 Claims. (Cl. 242—155)

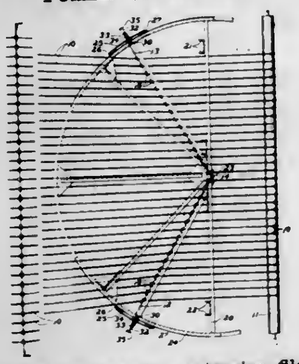
1. A device for controlling the tension of a longitudinally movable wire, comprising a pulley

about which the wire passes and which is rotated by the wire, a movable element frictionally engaging the rotating pulley and adjusted to normally offer a predetermined resistance to the



rotation of said pulley by said wire, and means controlled solely by a change in said resistance to adjust said element to re-establish said predetermined resistance.

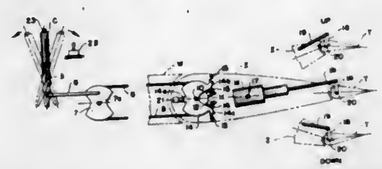
2,640,664
APPARATUS FOR SPACING ELONGATE ELEMENTS
Donald K. Porter, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 19, 1950, Serial No. 201,611
1 Claim. (Cl. 242—157)



Apparatus for spacing extensive filamentary elements for longitudinal travel of the elements in determinate spaced relation, said apparatus comprising a support, eyelet boards pivotally mounted on said support in side-by-side relation across the path of travel of the elements, each eyelet board having a plurality of apertures therethrough at fixed intervals for guiding individual elements, and arcuate track mounted on said support with its center coincident with the pivotal axis of said eyelet boards, wheel hangers cooperating with said track for supporting the movable ends of said boards, and means for locking said boards to said track in a plurality of positions inclined relative to the path of travel of the elements to adjust the spacing of the elements for delivery in parallel relation at a determinate spacing.

2,640,665
AIRCRAFT TRIM TAB CONTROL
Harold A. Gibb, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application June 2, 1948, Serial No. 30,577
6 Claims. (Cl. 244—82)

1. In an aircraft control system, a movable control member, a control surface pivotally mounted upon the aircraft, an actuating element pivotally mounted for limited rotational movement with said control surface and with respect to said control surface, actuating mechanism operatively connected to said control member and to said actuating element, resilient means interposed between said actuating element and said control surface to resiliently oppose said relative movement therebetween, a detent carried by said actuating element, and an electric solenoid means mounted upon said control surface operable from said control member and engageable with said detent for selectively locking or unlocking said actuating element to said control surface.

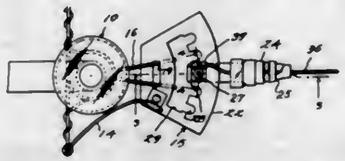


2,640,666
PARACHUTE
Vicente Cerrella, Buenos Aires, Argentina
Application January 25, 1950, Serial No. 140,364
In Argentina December 1, 1949
3 Claims. (Cl. 244—145)



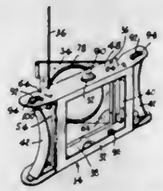
1. In a parachute comprising a canopy having a central aperture, a suspended harness and suspending cords connecting said harness to the outer edge of the canopy, in combination, a collapsible tubular member of substantially the same diameter as said aperture, open at both ends and having one edge fixedly secured to the inner surface of the canopy coaxially with and around said aperture; and radially extending centering cords, each secured with one end to the other edge of said tubular member and with the other end to the outer edge of the canopy and being of such length as to be tensioned only in completely opened position of said canopy whereby said tubular member is straightened and takes the shape of an open tube extending at a right angle to a plane passing through the outer edge of the displayed canopy, said tubular member being of such length as to have the edge to which said centering cords are secured spaced a short distance from said plane in opened position of the canopy.

2,640,667
ELECTRICAL SERVICE CONNECTOR
Welton B. Winn, Muleshoe, Tex., assignor of one-half to R. L. House, San Antonio, Tex.
Application May 1, 1950, Serial No. 159,299
1 Claim. (Cl. 248—65)



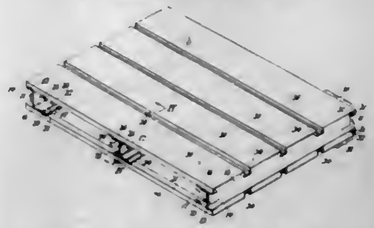
A wire connector comprising a segmental terminal plate formed with an elongated opening, means engaging in said opening for supporting said plate in substantially horizontal position, said plate also having a second elongated arcuate opening formed with spaced radial notches extending from the outer edge of said second opening, a wire holder comprising a body formed with a tapered bore whereby a wire may be extended therethrough, a bar fixed to said holder and secured to one side of said plate, clamp means engaging through a selected notch securing said bar and end of the wire to said plate, and tapered gripping members in said body spring-biased toward the narrow end thereof and clampingly engaging a wire extended through said bore outwardly of the secured end thereof for holding the wire against outward movement and relieving the secured end of the wire against pulling strain from the wire.

2,640,668
TRAVEL ALARM CLOCK WITH SLIDING CASE
Karl Otto Schmidt, Idar-Oberstein, Germany
Application April 5, 1951, Serial No. 219,339
In Germany November 30, 1950
3 Claims. (Cl. 248—116)



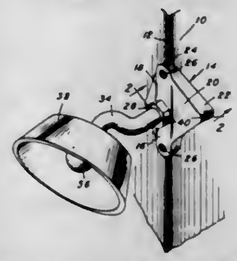
1. An extensible case for traveling clocks comprising a clock-supporting frame and a pair of case members slidably mounted on said frame for movement toward and from each other to respectively conceal and expose said frame and the clock which it supports, opposing longitudinally extending guide tracks in each said case members, said clock-supporting frame comprising a single die-cut and bent sheet blank constituting a front frame, a pair of end walls and a pair of side walls, all extending integrally at right angles from said front frame, said side walls having end portions which extend beyond the end walls, said end portions each having a slot therethrough, a pair of side plates abutting the insides of the side walls in face-to-face relation, their ends extending beyond the end walls, guide lugs on said side plates extending through said slots, a bowed spring extending between the ends of said side plates at the opposed guide lugs to resiliently maintain the lugs in their respective slots and in engagement with their respective guide tracks.

2,640,669
PALLET
Leonard F. Ashford, Philadelphia, Pa.
Application March 2, 1950, Serial No. 147,321
8 Claims. (Cl. 248—120)



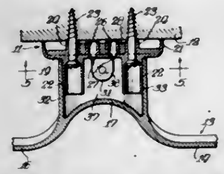
1. A pallet comprising longitudinally extending rigid support members, top and bottom decks separably spaced apart by said rigid support members to provide space intermediate the decks for inserting a lifting element such as the fork of a lift truck, opposed anchoring means affixed to each of said decks intermediate said side supports, and a deck connecting beam free of fixed attachment to either deck and extending between said decks and constructed for sliding engagement with and sliding disengagement from said anchoring means without changing the relative positions of said decks, and effective when engaged with said anchoring means to hold the decks together.

2,640,670
CORNER MOUNTING BRACKET FOR FLOODLIGHTS
Albert G. Lampe, Madison, Wis.
Application August 5, 1949, Serial No. 108,691
1 Claim. (Cl. 248—222)



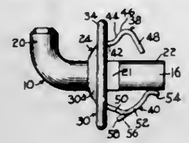
A floodlight comprising a goose neck having a threaded end portion, and means for removably mounting the floodlight on a corner of a building, said means including a substantially V-shaped bracket comprising a flat bight portion having spaced apertures therein for the reception of fastening elements for securing said bracket on the building corner, said bracket further comprising a marginal flange adapted to seat on the building walls and having vertically aligned notches therein accommodating the apex of the corner, said flange further having openings therein for the passage of conductor wires, and an internally threaded neck on said bight portion between the apertures for receiving said threaded end portion of the goose neck.

2,640,671
WALL FIXTURE SUPPORT
Martin J. Grady, Bridgman, Mich.
Application September 9, 1949, Serial No. 114,760
2 Claims. (Cl. 248—225)



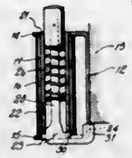
1. A wall fixture comprising a base adapted to be mounted flatwise on a wall surface, a pair of tubular elements extending outwardly from said base in spaced relation thereon, and a fixture having an elongated generally oval socket member slidably mountable on said base with the tubular elements being received within the socket member and engaging the latter at the oppositely disposed ends thereof, the end walls of said socket member being flattened at the inner faces thereof adjacent said tubular elements with said tubular elements having close fitting contact with the flattened inner faces of said end walls, and the diameter of said tubular elements being sufficiently large relative to the generally oval configuration of said socket member so that each of said tubular elements has a close fitting engagement with the side walls of said socket member at spaced points on opposite sides of the point of contact with the adjacent flattened end wall.

2,640,672
SUPPORTING DEVICE
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application November 24, 1948, Serial No. 61,882
4 Claims. (Cl. 248—239)



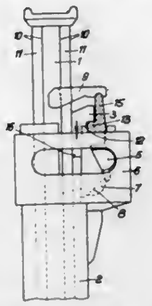
1. A shelf support for refrigerators and the like for insertion into an opening of a supporting wall for locking engagement therein, the support comprising a shelf-supporting rod having an outer shelf supporting portion and an opposite inner portion, said rod having a flange element intermediate the ends thereof, an attaching member including a base element having a rod-receiving opening therein mounted against the flange on the opposite inner end portion of the rod, an attaching cap having a rod-receiving opening therein mounted against the flange intermediate the outer and inner portions of the rod, means for securing the attaching cap to the base element of the attaching member, and resilient arms extending from said base element in the direction of the inner portion of said rod for engagement behind said wall through said opening whereby said support is secured to said wall, one of said arms providing a curved portion for hooking engagement behind said wall and having its free end directed toward but normally spaced from said rod to provide means for limiting movement of said arms upon mounting said shelf support in such opening, and another of said arms on a side of said rod opposite said one arm having adjacent said base element an outwardly extending portion for snap fastener engagement with an edge of said opening and at its free end an angularly inwardly directed portion for resilient sliding camming engagement with the edge of such wall opening.

2,640,673
CAN OPENER BRACKET
Achille G. Bureau, Forest Hills, N. Y., assignor to Joseph A. Cahil, doing business as Cahil Manufacturing Company, New York, N. Y.
Application April 19, 1950, Serial No. 156,741
3 Claims. (Cl. 248—289)



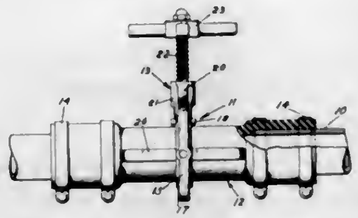
1. Can opener mounting mechanism, comprising a mounting bracket, a can opener arm, a sleeve on the arm journaled in the bracket, a latch mounted in the sleeve and engaging the bracket and sleeve to secure the arm in a plurality of positions, and a spring housed within said sleeve to urge the latch into a latching position.

2,640,674
MINE STEMPLE COMPRISING TWO TELESCOPING SECTIONS
Karl Gerlach, Moers, Germany
Application December 13, 1950, Serial No. 200,609
In Germany December 14, 1949
6 Claims. (Cl. 248—354)



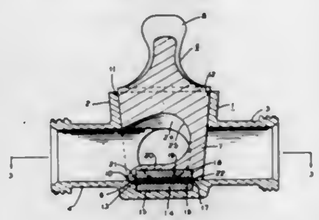
6. A mine stemple comprising two telescoping sections, a lock, a sliding wedge adapted to be carried along by said inner stemple over a portion of its path of travel, and means adapted to determine the initial position of said sliding wedge including a clamp in engagement with the inner stemple and an intermediate member movable transversely of said telescoping sections adjacent said lock, said intermediate member including a shoulder adapted to engage a conformation on said sliding wedge and a sloping portion adapted to engage said clamp.

2,640,675
MANUALLY OPERATED PINCH VALVE
Victor Wallace Farris, Tenafly, N. J.
Application July 22, 1949, Serial No. 106,239
1 Claim. (Cl. 251—5)



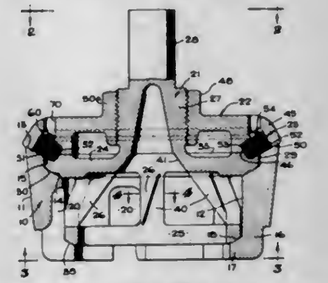
A valve comprising: a flexible conduit; a frame member surrounding said conduit and having a portion thereof in contact with said conduit; a clamping member engaging said conduit at a point diametrically opposite the point of contact between said portion of said frame member and said conduit; rotary means carried by said frame member with its axis of rotation perpendicular to the axis of said conduit and engaging said clamping member for moving said frame and clamping members relative to each other; and a bowed resilient member, supported at its center by said frame member, and extending on both sides of its point of support by said frame member, in a plane perpendicular to the axis of rotation of said rotary means, and including the axis of said conduit; the outer extremities of said bowed resilient member contacting said conduit to hold the same against relative rotation between said frame member and said conduit in said plane perpendicular to the axis of rotation of said rotary means.

2,640,676
VALVE
Warren J. Habgood, Millbourne, Pa.
Application August 2, 1951, Serial No. 239,873
4 Claims. (Cl. 251—112)



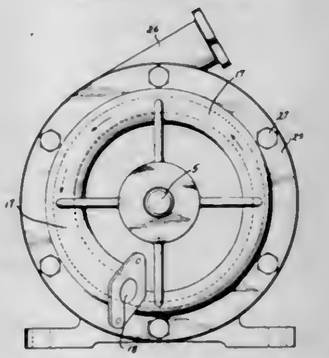
1. In a sanitary fluid valve device, an elongated casing having an imperforate bottom wall, a fluid control member extending into said casing and rotatable about an axis perpendicular to the path of fluid flow through said casing, said control member including a bottom wall superposed on a portion of the inner face of said bottom wall of said casing, and magnetic means acting between the bottom walls of said casing and said control member whereby said control member is retained in said casing primarily by magnetic attraction.

2,640,677
VALVE AND SEAT FOR SLUSH PUMPS
Rankin E. Craven, Whittier, Calif.; Ella Craven, administratrix of said Rankin E. Craven, deceased
Application November 2, 1946, Serial No. 707,410
11 Claims. (Cl. 251—127)



1. In combination, a seat element having an annular body with an outer mounting surface at its upper end portion, an upwardly facing seat at its upper end, a skirt depending from the body and a shoulder in the skirt, the seat having inner and outer portions, the outer portion being spaced above the inner portion and a valve including, a rigid disc-like part with a downwardly facing peripheral face engageable with the inner portion of the seat of the body, a sealing ring carried by said part above and outward of the said face and adapted to seal with the outer portion of the seat when the said face engages the inner portion of the seat, a base ring spaced below the body and guided by said skirt and engageable with the shoulder in the skirt when the face engages the seat of the body, and legs rigidly connecting the ring and the middle portion of said part, the legs having pitched surfaces engaged by fluid passing the valve to cause rotation of the valve relative to the seat element.

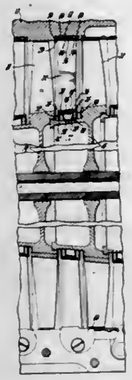
2,640,678
FLUID TRANSLATING DEVICE
Hilmar A. Andresen, Chicago, Ill.
Application December 22, 1947, Serial No. 793,188
2 Claims. (Cl. 253—40)



1. A fluid motor comprising, a casing having a generally cylindrical pumping chamber, an annular inlet header around said chamber, said casing having a peripheral inlet providing a pas-

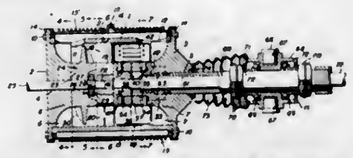
sageway intersecting said annular inlet header tangentially and discharging a jet of fluid tangentially into said inlet header, a nozzle ring between said header and said chamber having a plurality of circumferentially spaced venturi nozzles directing fluid from said header into said chamber, each of said nozzles being provided in said nozzle ring opening into said header and into said chamber in tangential alignment and directing fluid from said header into said chamber tangentially, a rotor journaled for rotation in said casing, a plurality of annular impeller vanes arranged in closely spaced longitudinal alignment on said rotor for rotation in said chamber, said casing having means providing an annular outlet header adjacent said pumping chamber at the periphery thereof, and means providing an annular outlet passageway between the outer periphery of said rotor and said casing receiving fluid from between said vanes and communicating same to said outlet header, whereby the fluid moving through said pump is not subjected to abrupt changes in direction of flow.

2,640,679
TURBINE OR COMPRESSOR STATOR RING
John B. Wheatley, Arthur W. Gaubatz, and Charles C. Anderson, Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 21, 1950, Serial No. 150,954
4 Claims. (Cl. 253—78)



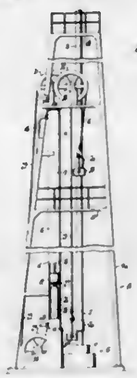
1. A blade assembly for a fluid machine of the dynamic type comprising, in combination, an arcuate outer strip, at least one arcuate inner strip of channel form with the flanges directed inwardly, and a plurality of blades extending from the outer strip to the inner strip, the depth of the said arcuate strips in a radial direction being small relative to the length of the blades from one strip to the other, the said strips when unassembled being light and flimsy and readily deflected in a radial direction relative to the arcs thereof, means on each end of each blade abutting on each of said strips throughout substantially the axial extent of said blades, the blades extending radially with respect to the arcs of the strips from a common center and being rigidly secured to the said strips so that the strips and blades cooperate to form a rigid lattice and stiffen the said strips.

2,640,680
VARIABLE PITCH HYDRAULIC TRANSMISSION
Kenneth G. Altheide, Quincy, Ill.
Application September 2, 1948, Serial No. 47,505
4 Claims. (Cl. 253—142)



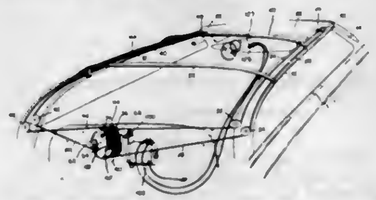
1. A rotor for a hydraulic transmission comprising a pair of coaxial hub members having confronting sides and one being rotatable relative to the other, elongated blades extending lengthwise alongside both hub members and each having a pair of separate end sections and means flexibly connecting each pair of end sections, one of the hub members being opposite one end section of each blade and the other hub member being opposite the other end section of the blade, and means on each end section and hub member opposite thereto pivotally and slidably connecting said sections to their opposite hub members for sliding movement longitudinally of the hub members and lateral swinging about individual axes radial to said hub members upon rotation of said one hub member relative to the other, whereby to impart a twisting action to said blades for varying the pitch thereof, and means to rotate said one hub member.

2,640,681
HYDRAULIC PIPE PULLING DEVICE
Blaine Johnston, Pasadena, Calif., assignor to M. O. Johnston, Glendale, Calif.
Application April 23, 1949, Serial No. 89,325
3 Claims. (Cl. 254—139)



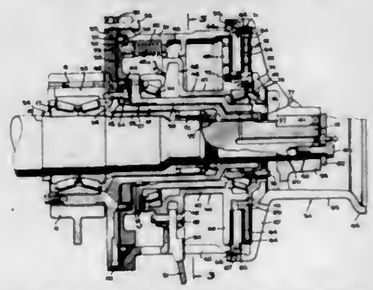
1. A pipe pulling device comprising an upright cylinder, a piston reciprocable therein, a top cable fixed to the upper end of said piston and extending through the upper end of said cylinder, a bottom cable fixed to the lower end of said piston and extending through the lower end of said cylinder, a plurality of nestable tubes for sheathing said top cable including a tube fixed to the upper end of said piston and another tube fixed to the upper end of said cylinder, a plurality of nestable tubes for sheathing said bottom cable including a tube fixed to the bottom of said piston and another tube fixed to the lower end of said cylinder, sheaves for guiding said top and bottom cables to operate one or the other thereof for pulling pipe both on the upstroke and downstroke of the piston and a pipe engaging elevator carried by each of said cables.

2,640,682
DRUM TYPE UNIT INSTALLATION
John W. Votypka, Detroit, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application August 1, 1949, Serial No. 107,847
5 Claims. (Cl. 254—141)



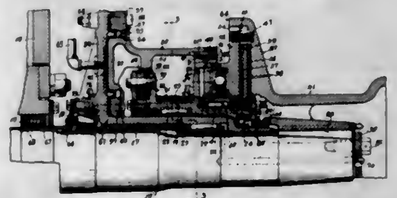
1. Cable drive means comprising a hollow cable drum having one closed end and one open end, helical cable guide grooves on the periphery of said drum, a pair of cables associated with said drum, an opening adjacent each end of said drum and an opening substantially midway between the ends of said drum, each cable having an end extending through one of said openings adjacent the end of the drum, and the other end extending through the opening midway between the ends of said drum, clamping means within said drum comprising a boss adjacent the open end of said drum having a tapped hole therein, a tapped hole at the closed end of said drum, clamping screws in said tapped holes, a pair of posts extending axially inwardly of said drum from the closed end thereof, said posts having transverse cable-receiving openings adjacent their free end and clamping screws threaded into the free ends of said posts to engage portions of cable received in said transverse openings.

2,640,683
FRICTION CATHEAD
Spencer W. Long, Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 30, 1948, Serial No. 46,789
23 Claims. (Cl. 254—187)



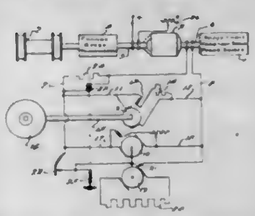
1. In a device of the class described for use with a rotatable shaft, the combination of a stationary sleeve encircling a portion of the shaft and provided with a flange; an axially movable shell encircling a portion of the sleeve; a flange on said shell, said flanges defining a fluid pressure chamber therebetween; an axially immovable ring adapted to be secured on the shaft; a spooling drum rotatably mounted on the shell between said fluid pressure chamber and said ring; the drum being held against axial movement relative to the shell; and friction drive means operatively interposed between said ring and a portion of said drum establishing a releasable driving connection between the shaft and the spooling drum upon axial movement of the spooling drum; and means to introduce fluid into the pressure chamber to move the shell axially.

2,640,684
FRICTION CATHEAD
Spencer W. Long, Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 14, 1946, Serial No. 669,518
31 Claims. (Cl. 254—187)



20. In combination, a rotary shaft supported in space bearings and having a projecting end extending beyond one of the bearings, a non-rotatable sleeve encircling a portion of the shaft projection, a spooling drum rotatably mounted on axially spaced bearings carried by the sleeve and maintained against axial movement relative thereto, and clutch means associated with the outer end of the shaft adapted to establish a releasable driving connection between the shaft and the spooling drum.

2,640,685
ELECTRIC DRILLING MECHANISM
Charles M. O'Leary, Los Angeles, Calif.
Application October 11, 1946, Serial No. 702,758
3 Claims. (Cl. 255—19)



1. Apparatus for driving the rotary table of a rotary well drilling mechanism and balancing the drill stem supporting torque applied to the hoisting drum, said apparatus including an electric generator having relatively movable inner and outer elements both journaled for rotation about a common axis, one of said elements being adapted for connection to a source of power and

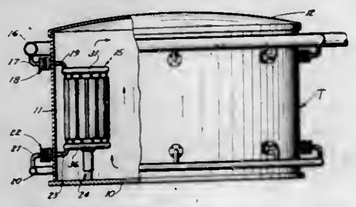
the other to the hoisting drum, an electric table driving motor driven by the current delivered by said generator, an electrical current consuming means connected in parallel with said motor across the output of said generator, means for varying the electrical resistance of said current consuming means, automatic means for so operating said resistance varying means as to reduce the resistance when the current drawn by said motor decreases and vice versa, and means for adjusting said automatic means to vary the rate of change of said resistance with respect to the rate of change of said current.

2,640,686

HEAT EXCHANGE TYPE OF TANK HEATER

John W. Brown, Jr., Lakewood, Ohio, assignor to Brown Fintube Company, Elyria, Ohio, a corporation of Ohio

Application August 30, 1949, Serial No. 113,224
2 Claims. (Cl. 257—198)



1. In combination with a tank, a heater disposed within the tank and spaced from the side wall and bottom thereof, said heater being small as compared with the tank and comprising an annular upper header, an annular lower header, a plurality of heat exchange tubes having longitudinal external fins thereon extending substantially vertically between the headers, adjacent tubes being spaced sufficiently so that the fins thereon do not overlap, said headers and said heat exchange tubes being in direct contact with the main body of material within the tank, the longitudinal fins on said heat exchange tubes providing substantially unobstructed paths for the flow of the material within the tank along said fins and tube in vertical directions, an upper connecting pipe and a lower connecting pipe connected to said headers respectively and extending laterally from said headers through the wall of said tank, and fittings for said upper connecting pipe and said lower connecting pipe, each of said fittings making sealing engagement between its respective pipe and the wall of the tank.

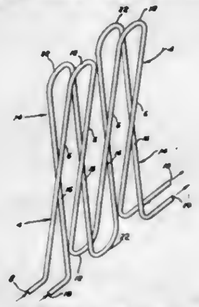
2,640,687

FLOW ARRANGEMENT FOR MULTIPASS HEATERS

John W. Throckmorton, New York, N. Y., assignor to Petro-Chem Process Company Inc., New York, N. Y., a corporation of Delaware

Application June 16, 1950, Serial No. 168,556
6 Claims. (Cl. 257—255)

3. A bank of heating tubes having a multi-pass flow comprising a first pass and a second pass, each said pass including a plurality of straight, parallel tubes disposed alternately with the tubes of the other pass, the tubes of said first and second passes defining, respectively, a first plane and a second plane, said first plane intersecting said second plane along a line defined substantially by the longitudinal midpoints of all said tubes, said first plane making a small angle with said second plane, and straight-line return means connecting



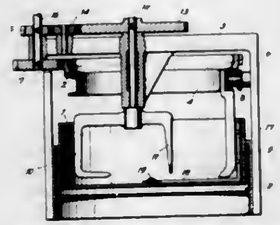
the tubes of said first and second passes at alternate ends.

2,640,688

MIXING AND KNEADING MACHINE

Reinhold Möller, Herford, Germany

Application January 14, 1952, Serial No. 266,278
In Germany January 20, 1951
9 Claims. (Cl. 259—104)



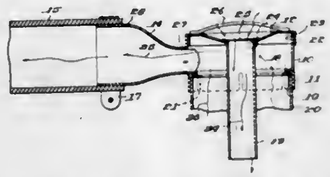
1. In a mixing and kneading machine, a frame, a container supported by the frame, a ring rotatably mounted on the frame above and concentric with the container, a stirring and agitating vaned member depending from the ring into the container adjacent the side wall of the latter, a vertical shaft journaled in the frame eccentrically of the container, a stirring member fixed on the lower end of said shaft extending into the container and means for rotating said ring and shaft.

2,640,689

HUMIDIFIER RADIATOR CAP

Clarence Schaaf, Findlay, Ohio

Application March 22, 1950, Serial No. 151,205
1 Claim. (Cl. 261—121)



A humidifier radiator cap comprising a vertically disposed cylindrical body having its lower portion slotted vertically to provide a contractible skirt adapted to embrace the filler neck of a radiator, said body having an inner flange located immediately above the contractible skirt and adapted to rest upon the filler neck, said cap having an annular shoulder forming a recess in the upper end thereof and a side outlet connection extending therefrom at right angles thereto and above the said flange for connecting the cap to an air cleaner, a cover removably positioned in the upper end of the body upon said shoulder, said cover having a centrally located depression therein provided with a centrally disposed opening, a screen extended across the opening and secured to the cover within the depression, an air inlet tube carried by and extending downwardly from the cover in line with the opening in the cover and terminating below the said outlet connection so that air entering said air inlet tube will be mixed with the water in the radiator so that moisture laden air will pass outwardly of said cap through said outlet opening, said cover having a depending annular flange on the outer edge of the same width as the depth of the recess, and a transversely extending handle on the outer surface of said cover for the removal of the cover and tube from the body.

2,640,690

CUTTINGS REMOVING MECHANISM

John A. Hayward, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application July 12, 1947, Serial No. 760,614
15 Claims. (Cl. 262—30)

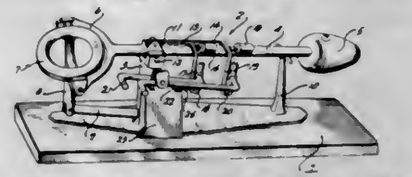
1. A cuttings removing mechanism comprising a casing having a horizontal chamber for receiving cuttings, and cuttings moving and ejecting means in said casing-chamber for moving the cuttings rearwardly therein and for ejecting the cuttings therefrom, said moving and ejecting means comprising a cuttings moving member which is normally upright when in its cuttings moving and ejecting position, means for pivotally mounting said cuttings moving member on said casing for horizontal oscillatory movement about a vertical axis and for up and down oscillatory movement about a horizontal axis, said member movable into a horizontal inoperative position about said horizontal axis, and motor driven mechanism for effecting actuation of said member during its operation including means connected to said cuttings moving member for oscillating said member about said vertical axis, and means connected to said cuttings moving member for positively turning said member from its upright operative position to its horizontal inoperative position near the end of its horizontal movement in one direction and from its inoperative position to its upright operative position near the end of its travel in the opposite direction.

2,640,691

EGG SCALE

Erling L. Kindseth, Redlands, Calif.

Application November 24, 1951, Serial No. 258,043
6 Claims. (Cl. 265—60)



1. An egg scale comprising a base, a support rising from the base, a beam pivotally mounted on the support, a weight on one end of said beam, an egg ring on the other end of the beam, a finger, a weight on said finger resting on the beam in one position of the finger, means pivotally mounting said finger on the beam, a key, and means on the base pivotally mounting the key, one end of said key engaging the finger to raise said finger and lift the second named weight off the beam.

2,640,692

MEANS FOR SEPARATING SOLIDS FROM EXHAUST GASES OF OPEN-HEARTH FURNACES

Jay J. Seaver, Evanston, Ill.

Application March 15, 1950, Serial No. 149,720
6 Claims. (Cl. 266—14)

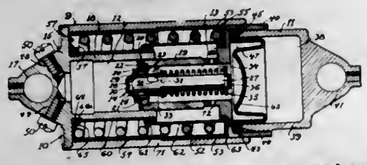
6. In an open-hearth furnace, a generally horizontally disposed hearth, a gas flow conduit downwardly extending from said hearth at either end thereof, each conduit being defined on one side thereof by a substantially vertically extending outer wall, a slag chamber at the lowermost end of each of said conduits, a brick-containing regeneration chamber associated with each slag chamber and separated therefrom by a transverse partition wall which faces the corresponding slag chamber, the inner wall of each conduit being inclined downwardly and outwardly in the direction of the associated vertically extending outer wall to flatten and to constrict the gas stream flowing therethrough while at the same time adjusting the width of its passageway to that of the associated slag chamber, said constricted gas stream entering said slag chamber at relatively high velocity at the top of the rearmost section thereof adjacent said vertical outside wall and relatively suddenly expanding and being retarded within such rearmost section to cause heavy solids entrained in said gas stream to be thrust by inertia downwardly and become deposited on the floor of said slag chamber.

2,640,693

RECIPROCATING PISTON TYPE HYDRAULIC DAMPING MECHANISM

Gervase M. Magrum, Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application February 21, 1946, Serial No. 649,241
8 Claims. (Cl. 267—8)



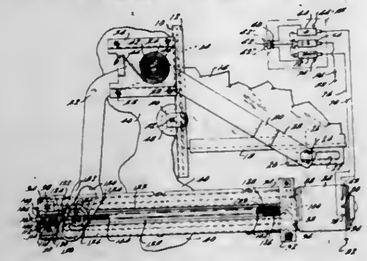
1. In combination in a damping mechanism, a cylinder structure, a piston structure cooperable reciprocably with the cylinder structure, said structures including opposite head portions, a return spring acting between said head portions normally to drive the cylinder and piston structures into protracted relation, a sealing sleeve affording a fluid tight seal between the cylinder and piston structures, means at one end of the sleeve urged by said spring against an end portion of the sealing sleeve to secure the latter to the head of the cylinder structure, and means secured to the opposite end portion of the sealing sleeve and to the piston structure for connecting said sleeve with said piston structure, said last mentioned means extending as a shield between the spring and the sealing sleeve in the operation of the mechanism.

2,640,694

WINDOW REGULATOR

Clifford C. Jackson, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application August 4, 1950, Serial No. 177,691
2 Claims. (Cl. 268—124)



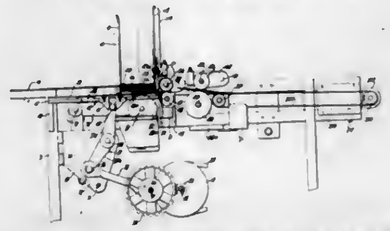
1. In a window regulator, the combination of a window lifting mechanism having a power arm, a first track on the power arm of the lifting mechanism and formed with near edges in opposed spaced relationship, a fixed track fixedly supported adjacent the arc of swing of the power arm and formed with angled near edges in opposed spaced relationship, a spring metal element having portions retained between the angled near edges of said fixed track and pressing resiliently outwardly thereagainst, said portions of the spring metal element being provided with shoe means bearing directly on said angled near edges and comprising an impregnated fabric bearing material, a tire slidable along the near edges of said first track having a centrally apertured elastic core, a nut supported by said resilient element and having a pin journalled in the central aperture of said elastic core, and a power operated screw shaft fixedly supported in the plane of said angled near edges and drivingly engaging the nut to cause the nut to travel therealong for resiliently coordinating relative motion of the tracks to one another.

2,640,695

CARD OVERLAP AND ADHERING MACHINE

Brooks E. Nelson, Cleveland, Ohio, assignor to Jaymac Systems, Incorporated, Cleveland, Ohio, a corporation of Ohio

Application June 14, 1948, Serial No. 32,898
21 Claims. (Cl. 270—58)



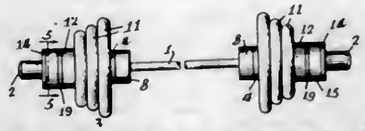
1. A machine for assembling a plurality of cards in overlapping relationship comprising a glue applicator pivotally supported for pivoting to and from a gluing station for selectively applying glue to certain of said cards, a feed member operable to feed each card individually and consecutively forwardly from the gluing station, and means for pivoting said applicator away from said gluing station in timed relationship with respect to said feed member so as to allow each nth card to be fed forward without application of glue, n being an integer not less than 2.

2,640,696

DUMBBELL WITH ADJUSTABLE WEIGHTS

Adalbert Lemieux, Vanconver, British Columbia, Canada

Application March 26, 1952, Serial No. 278,680
6 Claims. (Cl. 272—84)



1. Exercising apparatus comprising an elongated bar having a series of rack teeth at one end, weights removably mounted on said end, an assembly on said end and bearing against the outermost weight, a pawl carried by said assembly and engageable with said teeth, a collar rotatably surrounding said pawl and having a boss holding said pawl in engagement with said teeth, and releasable means for locking said collar to said assembly.

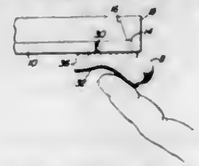
2,640,697

BALL COLLECTING TROUGH FOR POOL TABLES

Frank E. Elersich, North Hollywood, Calif.

Application April 10, 1950, Serial No. 154,927
5 Claims. (Cl. 273—12)

1. In a pool table including a board having a group of ball receiving openings therein and a peripheral edge, an elongated flexible pocket-forming open ended trough underlying and extending diametrically across each opening and secured to the undersurface of said board, the longitudinal axes of said troughs lying in a common plane



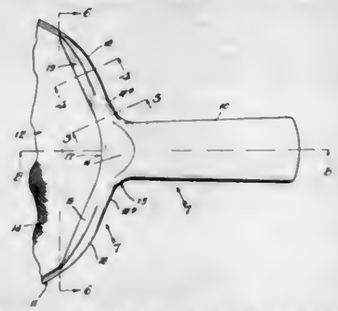
that is parallel to the plane of the board, said troughs adapted to receive and retain balls passing through the openings until the troughs are manually depressed, said troughs each having an open end at the peripheral edge of the board.

2,640,698

TABLE TENNIS BAT

George H. Forsyth, Evanston, Ill.

Application March 27, 1950, Serial No. 152,059
5 Claims. (Cl. 273—76)



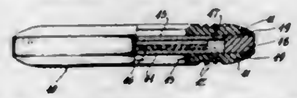
5. A bat for playing table tennis and the like, comprising an elongated blade having substantially parallel striking faces on opposite sides thereof, a pair of upstanding finger rests fixed along the base of each of said striking faces with the inner ends of said finger rests tapered downwardly toward the striking faces, the pair of finger rests on each side of the blade being disposed at substantially equal, widely diverging oblique angles to the longitudinal axis of said blade to form two substantially straight finger receiving grooves extending from the outer end of said finger rests to the opposite side of the base and intersecting each other at said base.

2,640,699

DISKLIKE PLAYTHING

Paul W. Garbo, Freeport, N. Y.

Application August 28, 1947, Serial No. 771,049
4 Claims. (Cl. 273—106)



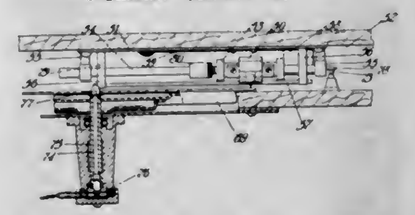
1. A plaything in substantially the form of a disk with substantially symmetrical opposite faces adapted for hurling and catching exercise, which comprises a soft resilient outer casing made of foamed rubber measuring about six to ten inches in diameter and about one to two inches in thickness, and a stiffening inner rigid core, said inner core occupying only a minor proportion of the volumetric extent of said plaything and said outer casing providing a solid, thick rim about said inner core.

2,640,700

PHONOGRAPH AND THE LIKE

Edmund Walter Mortimer and Edward William Wilkins, Swindon, England, assignors to The Garrard Engineering and Manufacturing Company Limited, Swindon, England

Application September 30, 1947, Serial No. 777,026
In Great Britain September 4, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 4, 1966
2 Claims. (Cl. 274—2)



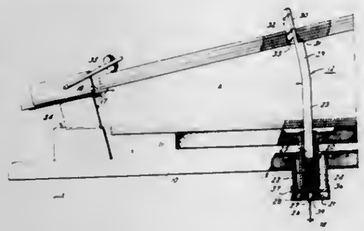
1. In a phonograph unit enclosed within a cabinet having a hinging lid, a turntable for mounting playing records of more than one size, a motor drive for said turntable, a hinging arm mounted adjacent the turntable, means operatively connecting said hinging arm with the hinging lid at an angle relative to the hinging edge of the hinging lid of the cabinet and a pickup slidably mounted on said hinging arm for reciprocation thereon; said hinging arm being mounted in parallelism with said turntable and said pickup being mounted in initial playing position for contact with the entering groove of the record on said turntable and movement toward the center thereof when the hinging lid of the cabinet is closed and said hinging arm and said pickup being angularly displaceable on said hinging arm away from said turntable and the record thereon and said pickup being displaceable by gravity away from the center of said record toward initial playing position when the hinging lid of the cabinet is opened; stop means slidably mounted on said hinging arm for movement between two positions, said stop means in one position being abuttable by said pickup during the movement of said pickup by gravity when the hinged lid of the cabinet is opened, thereby determining the initial playing position of said pickup for the one size of record, irrespective of the size of the last-played record on the turntable; record measuring means pivotally mounted for movement normal to said turntable and the record carried thereby, said measuring means being biased to extend beyond the plane of said turntable and the record thereon only when a record smaller than the one size of record is disposed on said turntable, stop positioning means operatively connected between said stop means and said record measuring means, said stop positioning means being actuatable by said measuring means upon closing of the hinging lid of the cabinet only when the record on the turntable is of a size smaller than the one size of record for displacing said stop means and thereby said pickup against gravity to an initial playing position other than that determined for the one size of record upon the opening of the hinging lid.

2,640,701

AUTOMATIC PHONOGRAPH APPARATUS

Hermann E. F. C. Lingenbrink, Hilltown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application November 28, 1947, Serial No. 788,468
2 Claims. (Cl. 274—10)



1. Record supporting structure for automatic phonographs of the type in which records are supported peripherally and centrally and are dropped successively onto a turntable, comprising a shelf adapted to support records at their periphery, an upright spindle having a lower straight portion and an upper curved portion, the latter being provided with a shoulder adapted to support records at their center, a mounting base upon which said shelf and said spindle are mounted with said curved portion of the spindle leaning toward said shelf, and means associated with said spindle and with said base to provide for sliding upward and downward displacement of said spindle, said means including a stop arrangement and a resilient element, said stop arrangement consisting of a pair of spaced abutments on the spindle and a stop member on said base located between said abutments, the spacing between said abutments and the location of said stop member with respect to said abutments being so related that the spindle is arrested in a predetermined lowered position in which said upper curved portion of the spindle guides records toward and in overlapping engagement with said shelf, and being so related that the spindle is arrested in a predetermined raised position in which said lower straight portion of the spindle guides records being moved upwardly along the spindle to a level above and clear of the shelf before reaching said curved portion, said spring element engaging the spindle and being sufficiently stiff to move the spindle upwardly and to maintain the latter in said predetermined upper position in the absence of records on said shoulder, said spring element further being sufficiently yieldable to permit the spindle to be displaced downwardly and to be maintained in said predetermined lowered position by the weight of at least one record placed on said shoulder.

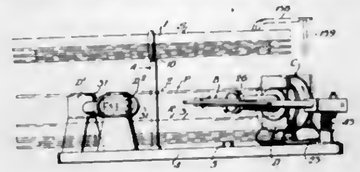
2,640,702

TONE ARM POSITIONING MECHANISM FOR AUTOMATIC RECORD CHANGER PHONOGRAPHS

Ridgeway T. Haggerty, Richmond Hill, N. Y., assignor to General Instrument Corporation, Elizabeth, N. J., a corporation of New Jersey

Application April 26, 1946, Serial No. 665,016
8 Claims. (Cl. 274—10)

1. A double-side-playing record changer adapted for playing intermixed different sized records comprising means for holding a supply of intermixed records of different sizes, means for feeding the records individually from said supply to a playing station, means for feeding a played record from said playing station to a played record receiving station, a tone arm for playing opposite sides of the fed record at said playing station, and automatic means for determining the setting of the initial playing position of the tone arm to conform to the particular size of a record fed to the playing station, said automatic



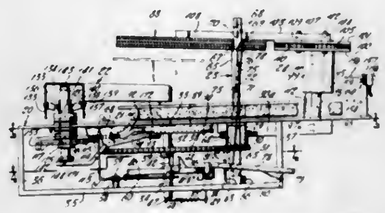
means comprising a control member actuated by the particular record fed to the playing station and actuated from a given position to a position correlated to the size of the particular fed record, means for holding the control member in such latter position so as to determine the setting of the tone arm for the playing of first one side and then the other side of the particular fed record, and means operated with one of said record feeding means for releasing the control member from its held position.

2,640,703

RECORD CHANGER

Dudley H. Smith, Brooklyn, N. Y.

Application October 13, 1948, Serial No. 54,320
5 Claims. (Cl. 274—10)



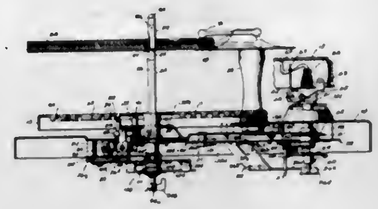
1. A record changer having a turntable and means to drive the same, a reproducer arm adapted to play records on said turntable and to initiate record changing cycles, and means for effecting record changing operations, a central hole in said turntable, a stationary post extending substantially vertically through said hole and having the upper portion thereof offset to form a shoulder upon which the lower record of a stack of records may rest, a movable post also extending through said hole and adjacent to said stationary post and having its upper extremity adjacent to said shoulder, said movable post being supported for movement both vertically and laterally within the center hole of said lower record, said movable post being in cooperative relation with said means for effecting record changing operations, and a rubber-like retardation element secured to said movable post intermediate said end and said turntable, and consequently in the path of and for reducing the force of the fall of records as they are released from said stack by the movements of said movable post.

2,640,704

RECORD CHANGER MECHANISM

Rudolph A. Becwar, Berwyn, Ill., assignor to Motorola, Inc., a corporation of Illinois

Application May 1, 1946, Serial No. 666,490
7 Claims. (Cl. 274—10)



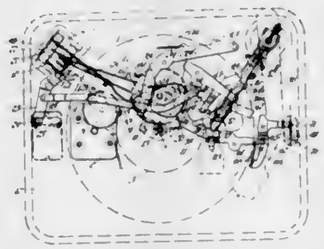
1. Record changing apparatus for a sound reproducing device having a rotary turntable mounted on a fixed support, comprising a pair of oppositely directed spiral grooves formed in said turntable on the underside thereof and defining respectively a lead-out cam and a lead-in cam, a member pivoted intermediate its ends to said fixed support and having one end thereof disposed adjacent to the underside of said turntable and to one side of the axis of said turntable, a cam follower pivotally mounted to said one end of said member, means on said cam follower adapted to engage either said lead-out cam or said lead-in cam depending upon the pivotal position of said cam follower, means for selectively positioning said cam follower so that said member is caused to pivot in one direction by said lead-out cam in response to rotation of said turntable and to move back to its initial position when said lead-in cam is rendered effective, in response to continued rotation of said turntable, and a pair of means one engageable with each end of said member to perform the record changing functions in timed sequence in response to the cyclic movement of said member.

2,640,705

CONTROL MEANS FOR PHONOGRAPHS

Edmund Walter Mortimer, Swindon, England, assignor to The Garrard Engineering & Manufacturing Company Limited, Swindon, England

Application December 5, 1946, Serial No. 714,271
In Great Britain January 15, 1946
8 Claims. (Cl. 274—10)



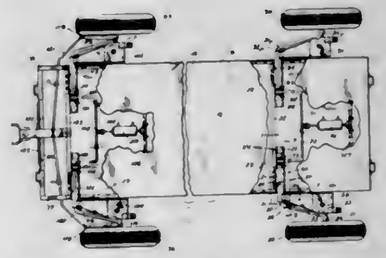
1. In a phonograph of the type described, including a motor-driven turntable, a driving means rotatable by and with said turntable, a spindle extending upwardly through said turntable and having an offset surface for supporting at their centers records of a stack to be played, a platform for auxiliarly supporting the records of the stack at the peripheral edge of the lowermost record thereof, and a needle carrying a vertically reciprocable, and angularly oscillatable tone arm; the improvement comprising a rotating control member, operatively connected with said tone arm for vertically raising and lowering the same and laterally oscillating the same from a position of rest toward and away from the center of the turntable, and operatively connected with said platform for displacing the lowermost record of the stack from its position on the spindle toward the turntable, said control element comprising an interrupted gear periodically rotatable by said driving means, the interruption of said gear being in register with the driving means during the playing of a record whereby the control member is maintained inactive, and means movable in accordance with the tone arm and adapted when the needle of the tone arm enters the runout groove of the record being played, to engage a surface of and impart an initial movement to the control element for bringing the teeth thereof into mesh with the driving means, the leading teeth of the interrupted gear adjacent the interruption thereof being resiliently mounted whereby meshing of the teeth with the driving means is effectuated when the tone arm has entered the runout groove of the record.

2,640,706

TRAILER INDIVIDUAL WHEEL SUSPENSION

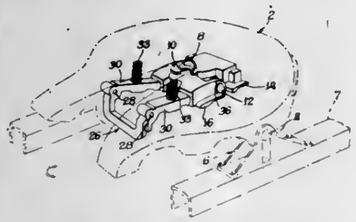
Harry B. Kuster, Cambridge City, Ind., assignor to Converto Mfg. Co., Inc., Cambridge City, Ind., a corporation of Indiana

Application March 4, 1952, Serial No. 274,793
11 Claims. (Cl. 280—11)



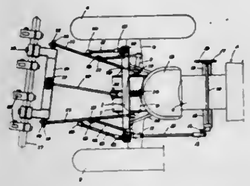
1. For attachment to a trailer frame; crank axles individually mountable on the frame, each of said axles having a bearing length to extend transversely of the frame, an arm extending rearwardly from an end of said length, and a wheel bearing carrying end outturned from the outer end of said arm; and a spring suspension having one portion normally to be fixed relative to said frame and another portion rocking with said arm; a bearing housing for attachment to said frame and into which housing said axle bearing length is revolubly received and carried; means for limiting travel of the axle length longitudinally of said housing; means extending from said housing to secure said housing to said frame; a sleeve revolubly telescoped over said housing; said one portion of the spring suspension being anchored to said sleeve to be carried thereby; means for rocking said sleeve to selected positions; and means yieldingly tying together said two spring suspension portions.

2,640,707
FIFTH WHEEL COUPLING MECHANISM
Frank H. Kayler, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 20, 1951, Serial No. 252,350
5 Claims. (Cl. 280—33.05)



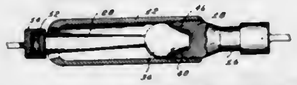
1. In a fifth wheel coupling mechanism; the combination of front and rear jaws pivotally interconnected for translatory movement forwardly and rearwardly with respect to the fifth wheel, guide means for pivoting the rear jaw upwardly to closed position thereof during forward movement of the jaws and for pivoting the rear jaw downwardly to open position thereof during rearward movement of the jaws, a surface on said rear jaw disposed rearwardly of its pivotal connection with the front jaw, said surface extending progressively rearwardly and away from said connection, a member engageable with said surface in fully open position of said rear jaw, and spring means yieldingly urging said member against said surface.

2,640,708
COMBINATION HITCH
Frank M. Fraga, Fresno, Calif.
Application May 2, 1950, Serial No. 159,537
8 Claims. (Cl. 280—33.1)



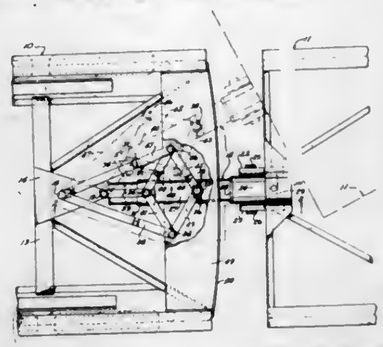
5. A combination hitch, for coupling a trailing implement to a tractor, comprising a fifth wheel assembly adapted to be mounted on the tractor centrally at the rear, the fifth wheel assembly including a rotary part and opposed trunnions projecting laterally therefrom, control means arranged to lock said rotary part in selective positions or permit the part to rotate freely, a pair of transversely spaced draft arms projecting rearwardly from corresponding trunnions, swivel couplings between said trunnions and draft arms, a draft frame adjacent the rear ends of the draft arms, swivel couplings between the draft arms and said draft frame, and selectively operative means to lock the draft arms against lateral swinging relative to said rotary part of the fifth wheel assembly.

2,640,709
PUSHER TYPE COUPLER
Nellie B. Smith, Mellwood, Ark.
Application May 22, 1951, Serial No. 227,595
3 Claims. (Cl. 280—33.13)



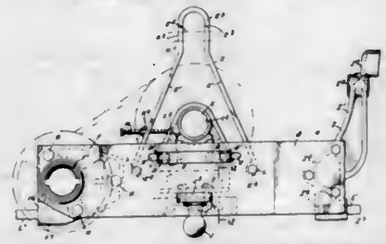
1. A coupler comprising a cylindrical sleeve having a first open end and a second end formed with a conically flared center opening, a first bar detachably affixed at one end to the first end of the sleeve, said end of the bar having a conically tapered socket formed therein and aligned with the opening in the second end of the sleeve, a conically tapered second bar slidably and rotatably disposed through the opening in the second end of the sleeve, and a ball formed on the minor end of the second bar and swivelling in the sleeve, said ball having a projection conformably shaped to nest within the socket.

2,640,710
SELF-ADJUSTING TRACTOR-TRAILER DRAFT DEVICE
Edward F. Duffy, La Crosse, Wis., assignor to La Crosse Trailer Corporation, La Crosse, Wis., a corporation of Wisconsin
Application March 11, 1949, Serial No. 80,860
12 Claims. (Cl. 280—33.44)



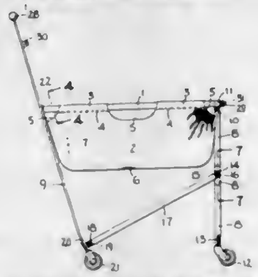
7. In a tractor-trailer assemblage, an extensible drawbar for coupling the trailer and tractor comprising, a shaft connected to the trailer adjacent one end; a sleeve slidable on said shaft and spaced from said end; a first pair of diverging links having their adjacent ends pivotally connected to the tractor; a second pair of diverging links having their adjacent ends pivotally connected to said shaft intermediate its length and having divergent end portions pivotally connected to the divergent end portions of the links of said first pair; a third pair of links connected to each other and to said sleeve at one end and having their other ends pivotally connected to the divergent end portions of said first and second pairs of links; a link connected to said tractor and to said third pair of links for causing converging movement of said divergent end portions of said links and extensible movement of said drawbar in response to swinging movement of said drawbar relative to the tractor; and means for restricting said drawbar to movement in a horizontal plane.

2,640,711
TRACTOR DRAWBAR AND DRIVE SHAFT BEARING ASSEMBLY
Norman H. Preble, Grosse Pointe, Mich., and William A. Goss, Zanesville, Ohio, assignors to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application October 10, 1949, Serial No. 120,468
9 Claims. (Cl. 280—33.44)



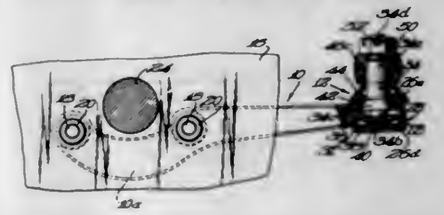
8. A built-up draw bar assembly comprising a pair of horizontally elongated vertically disposed plates, a removable combined bearing unit and spacer including a portion received between said plates adjacent one end thereof, a removable combined bracket unit and spacer including a portion received between said plates adjacent the opposite end thereof and a bracket portion extending above said plates, a second bearing unit including a base portion received between the central portions of said plates for adjustment longitudinally thereof and a bearing portion extending above said plates, a lifting strap connected to said plates and having an upper portion extending above said plates in proximity to the bearing portion of said second bearing unit, an adjustment screw carried by the upper portion of said lifting strap and engageable with the side of said second bearing unit adjacent said first bearing unit.

2,640,712
COLLAPSIBLE INFANT CARRIER
Adeline E. Lash, Cleveland, Ohio
Application July 8, 1949, Serial No. 103,620
5 Claims. (Cl. 280—41)



1. In a carrier of the character described, the combination of a normally horizontally disposed frame, a wheeled frame supporting member pivotally secured to said frame, a wheeled frame supporting element, means for detachably securing said element immovably to said frame, and a link pivotally connecting said element and said member, whereby said member and said frame are movable into parallelism with said element upon detachment of said element from said frame, the vertical distance from said horizontally disposed frame to the pivotal connection between said link and said element being substantially greater than the vertical distance from said frame to the pivotal connection between said link and said member.

2,640,713
STEERING ARM AND BALL JOINT ASSEMBLY
James H. Booth, Venice Township, Shiawassee County, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 6, 1949, Serial No. 108,879
1 Claim. (Cl. 280—95)

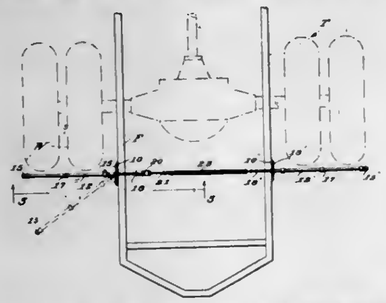


In a steering control mechanism for automotive vehicles and the like, the improvement comprising an elongated steering arm having an offset arcuate end adapted to span a wheel spindle, said end portion having apertured bosses adapted to receive mounting bolts for connecting the arm to a brake drum backing plate, said arm having a housing at the other end thereof, said housing having a central bore with an open top end and an open countersunk bottom and said housing adjacent the upper end thereof having a segmental spherical contour surrounding said open top end of the bore, a closure element disposed within said countersunk opening and fixedly secured therein, a seating element for a stud member disposed within said housing, resilient means interposed between said seating element and said closure element and constantly biasing said seating element away from said closure element, a stud member having a tapered shank at the upper end thereof and a segmental ball head portion at the lower end thereof and nested in said seating element, said stud having a segmental spherical shoulder adjacent the lower end thereof, a segmental spherical bearing member embracing said shoulder and having an exterior contour complementing said segmental spherical contour of said housing and bearing thereagainst, an exposed dust cap having its lower end embracing and resting on the outer segmental spherical portion of said housing and embracing a portion of said stud member, said dust cap projecting upwardly away from said housing, an eye-bolt having a tapered portion to receive said tapered portion of said stud member, said eye-bolt having its lower end abutting against the upper end of said dust cap, said eye-bolt having a threaded end for adjustable connection with a tie rod of said vehicle, said stud having a threaded end portion projecting above said eye-bolt, and a nut on said threaded end securing the assembled elements in their relative positions.

2,640,714
VEHICLE SPLASH GUARD CONSTRUCTION
Silver F. Garner and Kenneth T. Heap, Grants Pass, Oreg.
Application May 26, 1950, Serial No. 164,518
8 Claims. (Cl. 280—154.5)

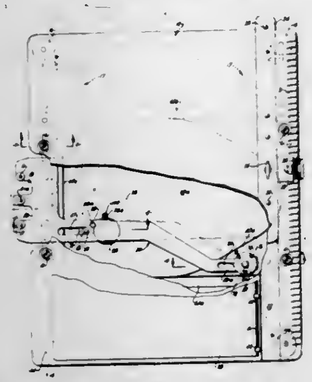
1. A mud guard construction in operative association with the frame of a vehicle, comprising

an apertured bearing plate secured to the outer wall of one side of the frame, an elongated tubular mud guard flap supporting rod disposed outwardly of said side of the frame and having an apertured abutment on the end thereof adjacent the frame, a coil spring within the frame and having one end thereof anchored to the op-



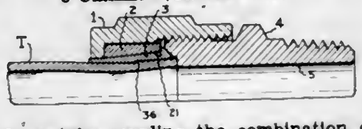
posite side of the frame, and a flexible member having one end thereof connected to the opposite end of the spring, said flexible member extending through said apertures and anchored to said rod, whereby the abutment is yieldably retained in engagement with said bearing plate by said spring.

2,640,715
COLLATING WRITING BOARD
Dudley M. Lontz, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation of Ohio
Application July 5, 1951, Serial No. 235,185
9 Claims. (Cl. 282—29)



1. A collating device comprising a writing board adapted to receive a journal or like sheet on the upper surface thereof, and mechanism for raising the sheet to an inclined position to allow the insertion of a ledger card or a like sheet beneath the journal sheet and next to the writing board, said mechanism including a shield mounted by one edge thereof on the writing board for pivotal movement and covering a substantial part of the lower portion of the board, and a carriage mounted for sliding movement under the board and in a direction transverse of the board and being operatively connected to the shield for raising and lowering the shield.

2,640,716
TUBE COUPLING
Arthur L. Bigelow, Euclid, Ohio
Application December 28, 1948, Serial No. 67,618
8 Claims. (Cl. 285—122)

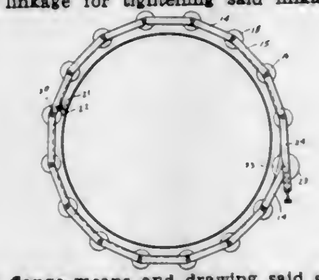


1. In a tube coupling the combination of a tube encompassing sleeve member having an elongated constrictable portion with an externally tapered surface and being adapted to be constricted upon the tube to be coupled, an internally tapered substantially non-expansible ring member axially movable over said portion to constrict the same, a body having a seat juxtaposed to the near end of said sleeve member, said sleeve member having a short substantially rigid annular portion at said end with a seat juxtaposed to the seat of said body and with a shoulder facing oppositely of said seat, said sleeve member also having a radially flexible portion spacing and joining said rigid and constrictable portions, a nut threadably engaging said body and having a bore through which the tube extends and having an internal shoulder engaging the end of said ring member remote from said body and adapted to advance said ring member toward said body over said constrictable portion of said sleeve to constrict the latter, the bore of said nut being adjacent said shoulder thereof and being of diameter slightly smaller than the least internal diameter of said ring, said ring member having a steeper taper than said constrictable portion and having a mean internal diameter not substantially greater than the mean external diameter of said constrictable portion, said ring member when advanced by said nut progressively constricting said constrictable portion throughout the length thereof with maximum constriction near the end of said ring member remote from said body, said flexible portion yielding radially in response to constriction of said constrictable portion, said ring member bottoming longitudinally against said shoulder of said rigid portion, said rigid portion being movable radially relative to said body and to said constrictable portion to facilitate mating engagement of said seats, said sleeve member extending into and being constricted within said bore of said nut as well as within said ring after said ring has first constricted said sleeve member.

2,640,717
SEPARABLE PRESSURE VESSEL QUICK CLAMP
Charles E. Scheuring, Indianapolis, Ind., assignor to Emerson-Scheuring Tank and Manufacturing Company, Inc., Indianapolis, Ind., a corporation
Application July 26, 1949, Serial No. 106,899
3 Claims. (Cl. 285—129)

1. In a container having operatively abutting ends and external substantially peripherally encircling flange means on the ends and juxtapositioned to each other, one flange means having a side face inclined away from the opposite side face and from the periphery towards the base of the flange means, the combination therewith of an articulated flange means enveloping linkage comprising links and pin means connecting the links together, a plurality of spaced grooved spools carried by said linkage and engageable with the flange means faces, certain of said spools being rotatably supported by said

pin means, and tautening means at one end of the linkage for tightening said linkage about



said flange means and drawing said spools inwardly upon said flange means faces for operatively clamping said flange means together.

2,640,718
IMPLEMENT TOOL BAR CLAMP
Charles H. Brown, Breckenridge, Tex.
Application June 28, 1948, Serial No. 35,629
2 Claims. (Cl. 287—54)



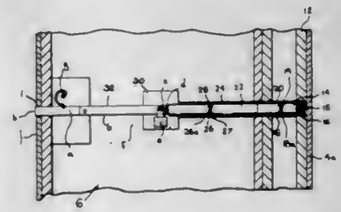
1. A clamping means consisting of two or more clamping members each comprised of a rectangular plate, a pair of parallel webs projecting vertically from one side of said plate, said webs having aligned notches in the edges thereof remote from said plate, and a single flange projecting from the side of said plate opposite said webs, said flange being offset from the edge of said plate and having a lip on the edge thereof remote from said plate, said lip and the offset portion of said plate with said flange defining a channel, said flange lying in a plane parallel to a plane passing through said webs, said plate having openings therein for the passage of securing means to maintain the clamping members on a supporting bar and said flange having an opening therein for the passage of a securing means to maintain a supported member in said channel.

2,640,719
COUPLING
Dan J. Dennington, Jr., Texarkana, Tex.
Application July 25, 1949, Serial No. 106,635
4 Claims. (Cl. 287—118)



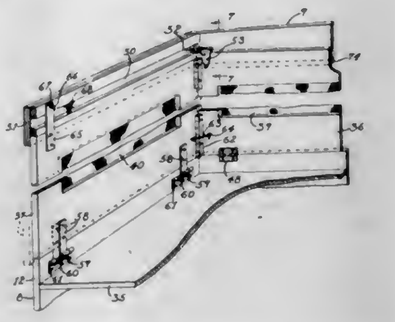
1. A coupling comprising a split, resilient sleeve including lapped longitudinal marginal portions, a member on the overlying portion of the sleeve extending therefrom in opposed relation to the underlying portion of said sleeve, said member including a substantially oblique edge portion, and rigid rings slidable longitudinally on the sleeve and engageable with the member for contracting said sleeve.

2,640,720
VEHICLE DOOR LATCH
Curtis Brown, Kentland, Ind.
Application May 16, 1950, Serial No. 162,260
4 Claims. (Cl. 292—150)



1. A latching device adapted for use in an automobile body having front and rear pivotally mounted doors, said latching device comprising a retractible latch mechanism in said rear door, means for blocking the rear door latch mechanism when the front door is closed comprising a blocking element movably mounted in said rear door respectively movable between blocking and unblocking positions with respect to said rear door latch mechanism, biasing means normally biasing said blocking element to unblocking position and means engageable by the front door when the latter is closed for moving said element to said blocking position.

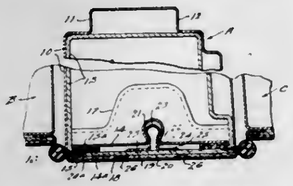
2,640,721
COLLAPSIBLE AUTO TRAILER
Frank F. Kors, Independence, Kans., assignor of one-half to Harry D. Kors, Independence, Kans.
Application September 5, 1947, Serial No. 772,349
13 Claims. (Cl. 296—23)



10. A collapsible house structure comprising a four-sided body part, a top part raisable off the body part, opposed walls hinged on one of said

body and top parts to swing upwardly to vertical operative positions between the body and top parts, other opposed walls hinged to the same part with the first mentioned walls to swing upwardly to vertical positions between the top and body parts and slidable endwise relative to the body in their vertical positions, means providing rabbet joints for interfitting end portions of the latter hinged walls with end portions of the first named hinged walls, and detachable fastening means to secure the walls in such interfitting relationship.

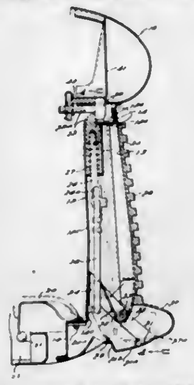
2,640,722
TRIM FASTENING DEVICE
Thomas W. Hosking, Detroit, Mich., assignor to Briggs Manufacturing Co., Detroit, Mich., a corporation of Michigan
Application August 5, 1950, Serial No. 177,870
6 Claims. (Cl. 296—28)



1. In a vehicle body construction, a vertical pillar comprising a channel member opening inward with respect to the vehicle body, a vertical closure plate secured to said channel member across the channel mouth thereof, said closure plate having a channel-like receptacle extending vertically substantially the length thereof and projecting into the channel member and opening inward with respect to the vehicle body through a constricted channel mouth from an enlarged interior, an interior trim panel overlying the inner surface of said closure plate, means detachably securing the plate and trim panel together comprising a plurality of vertically extending and vertically spaced channel-like inserts carried by the trim panel, each insert having an enlarged channel body snugly confined within the receptacle and also having a reduced neck portion extending through the aforesaid constricted channel mouth of the receptacle and secured to the trim panel, the sidewalls of the receptacle at the mouth thereof and the enlarged channel body of the insert being resiliently yieldable relative to each other and the enlarged channel body of the insert being thereby removably insertable through said reduced receptacle mouth.

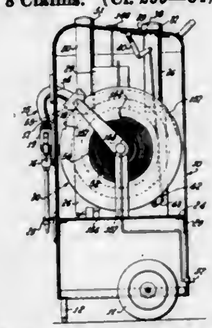
2,640,723
GLOVE COMPARTMENT DOOR LATCH
Rodney E. Lauer, Grosse Pointe, and Clifford B. Doty, Detroit, Mich., assignors to Briggs Manufacturing Company, a corporation of Michigan
Application September 4, 1947, Serial No. 772,084
9 Claims. (Cl. 296—37)

5. In a vehicle body having a glove compartment, a swinging door for said compartment hingedly mounted adjacent its lower edge on a portion of the body, said door including a rear panel provided at or adjacent its lower edge with a rearwardly projecting hollow embossment, a finger piece pivoted to the door and extending within said embossment and shiftable in an aperture in the lower wall of the embossment, and means connecting said finger piece to a latch



adapted to be mounted at the upper edge of the door.

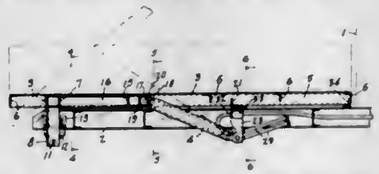
2,640,724
ENGINE CLEANING EQUIPMENT
Elmore J. Sanders, San Gabriel, John Allen Wiens, Burbank, and Edison J. McClave, Los Angeles, Calif.; said Wiens and said McClave assignors to said Sanders
Application March 20, 1950, Serial No. 150,678
8 Claims. (Cl. 299—84)



1. Apparatus for supplying fluids to an engine cleaning spray gun, comprising flexible hose means adapted to connect at an outer end to an engine cleaning spray gun, a tank for containing a supply of cleaning fluid, means for placing said tank in communication with said hose means to deliver cleaning fluid therethrough to the gun, means for placing a source of water in communication with said hose means, an aspirator communicable with said hose means and operable by compressed air to draw fluid inwardly through the hose means from the gun, and means for selectively connecting a source of compressed air with said hose means or said aspirator.

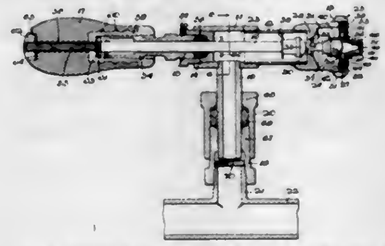
2,640,725
STANDARDIZED DUMP BODY ASSEMBLY
Elmer O. Dale, Waukesha, Wis., assignor, by mesne assignments, to Gar Wood Industries, Incorporated, a corporation of Michigan
Application February 23, 1949, Serial No. 77,759
9 Claims. (Cl. 298—22)

5. Standardized parts for fabricating dump trucks of various makes wherein the box of the truck is tilted from the truck frame by hydraulic rams or the like, which comprises a pair of transversely spaced hinge members secured at their upper ends to the bottom of said box and pivoted at their lower ends to the frame of the truck, a pair of transversely spaced upper ram brackets secured to the bottom of the box forwardly of said hinge members and disposed to receive the upper ends of said rams, a cross member secured to said frame forwardly of said upper ram brackets, the distance between said cross member and said ram brackets being the greater part of the



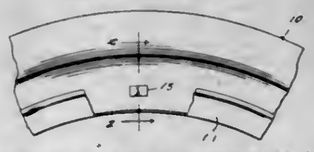
length of said rams, a pair of transversely spaced lower ram brackets depending downwardly from said cross member and disposed to index the transverse position of each bracket relative to the frame and to receive the lower ends of said rams, the rams being disposed at all times above the level of the bottoms of said lower ram brackets, and means extending forwardly between each lower ram bracket and the truck frame to brace said lower ram brackets against the frame to take the thrust of the rams when the box is raised and pivoted on said hinge members.

2,640,726
SPRAY GUN
Isaac S. Prescott, Orlando, Fla.
Original application January 5, 1948, Serial No. 549. Divided and this application October 24, 1950, Serial No. 191,891
3 Claims. (Cl. 299—73)



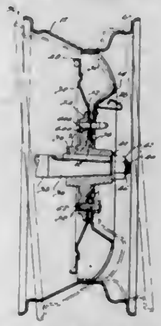
1. In a spray gun having a body member adjustably mounted on a support with a passageway in said body member adapted to receive the liquid to be sprayed from the interior of said support, means for adjustably mounting said body member on said support comprising a supporting tube connected at one end to said body member with its interior communicating with said passageway, a mounting nut into which the other end of said tube is threaded, said tube serving to conduct the liquid to be sprayed to the passageway within said body member and having an externally threaded portion of greater axial extent than the cooperating internally threaded portion of said mounting nut and being at all times unrestrictedly rotatable with respect to said nut so as to permit adjustment of the position of said body member both longitudinally and circumferentially relative to the axis of said nut, said mounting nut having an internally threaded portion coaxial with and of greater internal diameter than the exterior of said tube by which said nut is adapted to be secured to said support, and means for preventing leakage of liquid from the interior of said mounting nut and tube through the threaded connection therebetween.

2,640,727
BALANCING WEIGHT
Raymond A. Kennedy, Sioux City, Iowa
Application February 1, 1950, Serial No. 141,758
1 Claim. (Cl. 301—5)



In combination with a vehicle wheel having a rim and spaced side flanges on said rim, a tire casing seated on said rim, said casing having side walls extending between said flanges, a rubber body intermixed with powdered metal and including a permanently attached layer of rubber cement on one side thereof, said cement affixing said body to a side wall of said tire casing between said side wall and a flange of said rim in such manner as to make said body a permanent part of said tire.

2,640,728
WHEEL STRUCTURE
Frederic W. Slack, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 26, 1950, Serial No. 202,745
6 Claims. (Cl. 301—9)



1. For use with a road wheel having a central hub opening and a ring of a radially aligned plurality of openings in spaced adjacency to the hub opening and composed of alternate bolt openings and guide openings, a brake drum assembly including a drum and a hub therefor, said hub presenting an annular shoulder receivable in said wheel hub opening and a radiating flange, said drum having a flange radially overlapping said hub flange and both said flanges being apertured with a ring of openings generally corresponding in number and disposition to one another and to the ring of wheel openings, and rivet members passing through alternate openings in said hub and riveting the drum thereto through the corresponding drum openings, the remainder of said openings being

adapted to receive wheel bolts, at least one of said alternate openings being radially offset with respect to a mean radius of the ring of drum assembly openings and the rivet members therein providing an annularly grooved pilot stud receivable in a said wheel guide opening and permitting the edge of the said opening to ride into the annular groove to allow the wheel to center itself relative to the annular shoulder of the hub.

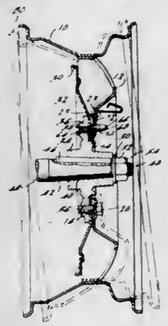
2,640,729

WHEEL STRUCTURE

Archie M. Niven, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 26, 1950, Serial No. 202,744

5 Claims. (Cl. 301—9)



1. For use with a road wheel having a hub opening and a ring of alternating bolt-receiving and guide openings respectively thereabout, a hub assembly comprising in combination, a hub section having an annular stepped portion and flange structure radiating therefrom, said stepped portion being transversely engageable with the edges of said hub opening, means forming a ring of alternating bolt-receiving and rivet openings in said flange structure respectively corresponding in location to said wheel bolt-receiving and guide openings and registerable therewith, a drum section having an inner flange overlapping with said flange structure, and rivet members receivable in said rivet openings to rivet the flanges together and including a member having a knurled portion axially receivable such as to deform its receiving opening, and a pilot stud portion rigid with the knurled portion and in axial non-alignment therewith, said knurled portion being non-rotatable with respect to the flange opening for holding the pilot stud portion relatively offcenter with respect to a mean circumference of the ring of flange openings, said stud portion having a transverse depression into which the edge of a wheel guide opening may ride to permit said wheel hub opening and annular stepped portion to become concentric for effecting the transverse engagement aforesaid and permit said wheel and hub assembly bolt openings to register with one another.

2,640,730

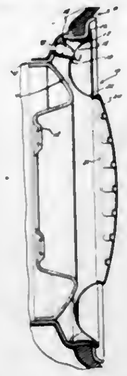
WHEEL COVER

George Albert Lyon, Detroit, Mich.

Application September 14, 1948, Serial No. 49,238

3 Claims. (Cl. 301—37)

1. As an article of manufacture, a wheel cover for an outer side of a vehicle wheel, the cover comprising a circular cover member having a central axially offset circular portion provided with a corrugated portion formed with a series of rib corrugations projecting axially inwardly and extending transversely parallel in a uniform grid-like pattern with the rib corrugations having their ends at substantially the periphery of the offset circular portion and being of graduated diminishing lengths to each side from the rib corrugation nearest the diameter of the circular



portion, and the grid-like pattern of rib corrugations covering substantially the entire area of the corrugated portion on the rear side of the cover for reinforcing the central circular portion against indentations, said corrugated portion being convexly curved outwardly and said rib-like corrugations being arched conformably to the convex curvature with the arch radius of the rib corrugations being substantially diminishing proportionate to their lengths and distance from said diameter of the corrugated portion.

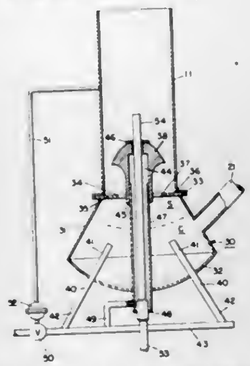
2,640,731

AUTOMATIC AIR LIFT CONTROL

Claude I. Hill, Oak Harbor, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application July 31, 1951, Serial No. 239,465

6 Claims. (Cl. 302—53)



1. Apparatus for elevating contact material from a lower vessel containing a body of the material to an upper vessel which comprises an

elevating conduit having its lower inlet end in communication with the lower vessel, a plurality of fluid conduits each having an inner end within the lower vessel and an outer end exteriorly of the vessel, a manifold in communication with the outer ends of the conduits to supply fluid thereto for conveying the contact material by fluid pressure from the lower vessel into the elevating conduit, a valve for controlling the passage of contact material into the elevating conduit, said valve including a valve seat adjacent the inlet end of the elevating conduit and a cooperating valve plug movable toward and away from said seat, said valve plug having an axial passageway therethrough, an independent fluid supply conduit extending through the passageway in the valve plug having its inner open end positioned within the elevating conduit and its outer end positioned exteriorly of the lower vessel to receive elevating fluid for passage continuously into the elevating conduit, a sleeve about the independent fluid supply conduit providing a space therewith having a closed lower end and an upper open end, said upper open end extending into the inner end of said passageway in the valve plug, cap means at the upper end of the valve plug and around the upper end portion of the independent fluid supply conduit, providing with the sleeve a sealed space, a conduit in communication with said space and the manifold for supplying fluid to the space and maintain the valve plug in raised position during normal operation, and means between the elevating conduit and the manifold for cutting of the supply of fluid to the manifold when pressure in the elevating conduit attains a predetermined value to cause the valve plug to fall to closed position.

2,640,732

FLUID PRESSURE BRAKE RELEASE INDICATING MEANS

Andrew T. Gorman, Pitcairn, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application March 25, 1950, Serial No. 151,876

7 Claims. (Cl. 303—26)



1. In a fluid pressure brake equipment for a multiple unit locomotive, in combination, braking means on each unit operable by fluid under pressure, a first pipe, a second pipe, an engineer's brake valve device on one of said units for either supplying fluid under pressure to said first pipe or for opening said first pipe to atmosphere and for selectively supplying fluid under pressure to and for opening said second pipe to atmosphere while said first pipe is open to atmosphere, valve means on each unit having a normal position for opening said first pipe to the respective braking means and operable upon supply of fluid under pressure to said second pipe to a brake release position for closing communication between said first pipe and the respective braking means and for releasing fluid under pressure from the respective braking means, and a communication on each unit connecting said braking means to said first pipe including check valve means for preventing flow of fluid under pressure in the direction from said first pipe to said braking means but providing for flow of fluid under pressure in a reverse direction, and a choke in said communication on each unit.

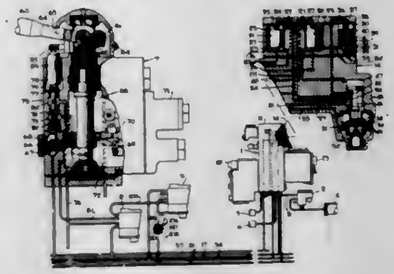
2,640,733

FLUID PRESSURE BRAKE APPARATUS

George L. Cotter, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application March 30, 1950, Serial No. 152,944

5 Claims. (Cl. 303—26)



1. In a fluid pressure brake equipment, in combination, fluid pressure operable brake applying means, a brake pipe, brake controlling means operative upon a reduction in pressure in said brake pipe to supply fluid under pressure to said brake applying means, a straight air pipe for conveying fluid under pressure to said brake applying means, valve means having one position for closing a vent from said brake applying means and establishing a communication between said straight air pipe and brake applying means and having a second position for opening said vent and closing said communication, an engineer's brake valve device for selectively positioning said valve means, and means responsive to an emergency reduction in pressure in said brake pipe to effect movement of said valve means to said second position.

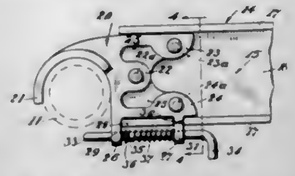
2,640,734

GOOSENECK CONNECTION

Victor W. Meng, New Hyde Park, N. Y., assignor to The Patent Scaffolding Co., Inc., Long Island City, N. Y., a corporation of New York

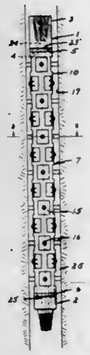
Application August 31, 1951, Serial No. 244,637

2 Claims. (Cl. 304—40)



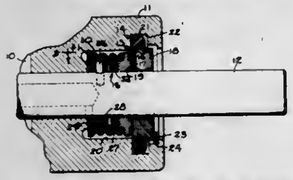
1. In a gooseneck connection, the combination of a hook portion to partially embrace a tubing of a sectional end frame, and a body portion including leg members having openings for bolts, adapted to secure the body portion to the end of a ladder rail, and a channel shaped rail of a ladder having a web, said body portion being in a plane parallel with and adjacent to the plane of the web, said rail having a cutout spaced from the end of the rail, and one of said leg members having pin guiding depending portions one of which abuts the end of the rail and the other of which passes through the cut out of the rail.

2,640,735
STABILIZER FOR DRILL COLLARS AND DRILL PIPE
Fred A. Scott, Midland, and Floyd L. Scott, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application February 17, 1947, Serial No. 729,142
4 Claims. (Cl. 308—4)



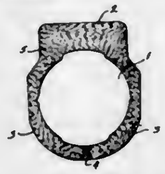
1. A stabilizer for drill stems comprising, a body of resilient material rotatably mounted upon at least a portion of the drill stem and having a plurality of resilient outwardly extending projections thereon, and a sheath of rigid material fitting closely upon said body and having openings therein through which said projections pass for engagement with a surrounding wall to exert a stabilizing force upon the drill stem, the interior of said body having longitudinally extending flattened areas to admit well fluids between the body and the drill stem.

2,640,736
FLUID SEAL
Gunnar A. Wahlmark, Rockford, Ill.
Application January 28, 1950, Serial No. 141,079
1 Claim. (Cl. 308—36.2)



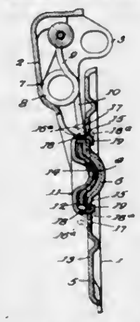
The combination of, a bearing sleeve, a shaft journaled in said sleeve, two axially spaced, inner and outer abutments on said sleeve disposed within the latter perpendicular to the axis thereof and facing toward each other, the outer abutment being sealed in said sleeve, a member rigid with and projecting outwardly from said shaft and bearing against the other of said abutments, a ring encircling said shaft between said first abutment and said member, means positively coupling said ring and said shaft for rotation together while permitting axial sliding of the ring relative to the shaft, a spring acting in compression between said member and said ring to urge the two apart and thereby maintain said ring and said member in engagement with said abutments at all times, and means providing a fluid tight seal around said shaft and within said ring.

2,640,737
ONE-PIECE FORGED STEEL RAILWAY JOURNAL BOX
Gladford A. Reifsnyder, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application August 15, 1949, Serial No. 110,298
2 Claims. (Cl. 308—38)



1. A journal box for railway vehicles comprising: a body shaped by forging from a single block of metal to have the metal fibres directed circumferentially of the finished box, said body having a flat-topped, relatively thick section upper load carrying portion, opposite side walls having relatively thin irregular sections and surface contours, and inwardly curving lower wall portions located in edgewise adjacence; and weld metal joining said adjacent edges of the lower wall portions of said body.

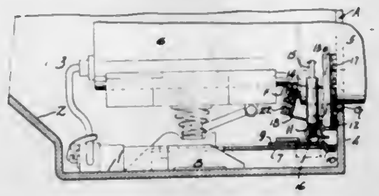
2,640,738
JOURNAL BOX LID
Emil H. Blattner, Rochester, N. Y., assignor to The Symington-Gould Corporation, Depew, N. Y., a corporation of Maryland
Application February 18, 1948, Serial No. 9,229
5 Claims. (Cl. 308—47)



1. In a journal box lid of the type having a hood universally mounted on a cover, the combination of, vertically spaced slots in said cover adjacent a central portion thereof, a bridge member embracing a part of said hood, said bridge member having angularly directed legs extending through said slots and terminal flanges on said legs locking said bridge member to said cover.

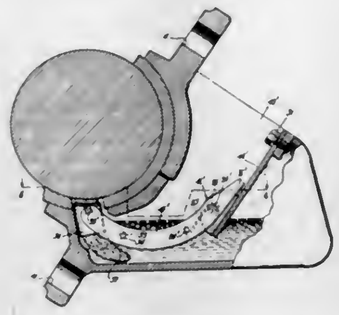
2,640,739
RAILWAY JOURNAL BOX OIL GUARD
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application October 5, 1949, Serial No. 119,662
8 Claims. (Cl. 308—80)

1. In an oil guard for a railway axle journal box, a horizontally disposed support plate, an upstanding plate, hinged structure mounting said upstanding plate on said support plate, a supplemental upstanding plate hinged on said upstanding plate, said structure including spring means thrusting said upstanding plates upward-



ly and rearwardly of said support plate, and individual pads of fibrous material mounted on said upstanding plates with their upper edges shaped to fit the contour of a railway journal and adjacent axle portion.

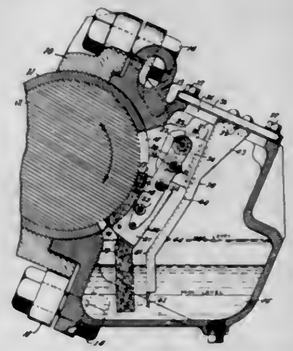
2,640,740
JOURNAL LUBRICATOR
Robert J. Harkenrider, Winona, Minn., assignor to Gladys D. Miller, Winona, Minn.
Application August 11, 1948, Serial No. 43,579
7 Claims. (Cl. 308—132)



1. A journal lubricator comprising, in combination: a plurality of lubricant applicator pads each relatively narrow transversely parallel with the axis of a journal to be lubricated; a rigid jacket-casing enclosing each applicator at its side surfaces; wick means projecting from each pad and a bushing firmly attached to said jacket at pivot point; and means to resiliently press each pad toward a journal to be lubricated.

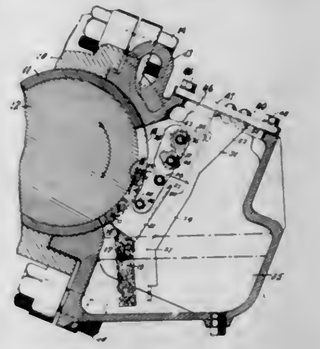
2,640,741
JOURNAL LUBRICATOR
Robert J. Harkenrider, Winona, Minn., assignor to Gladys D. Miller, Winona, Minn.
Continuation of application Serial No. 43,579, August 11, 1948. This application August 11, 1949, Serial No. 109,750
14 Claims. (Cl. 308—132)

1. In a device of the class described, an axle cap having an oil reservoir in its lower portion and an opening above the reservoir, a cover plate removably closing the opening, and a yieldingly mounted journal lubricator carried by the cover plate whereby both the cover plate and the lubri-



cator may be installed or removed by the same operation.

2,640,742
TRACTION MOTOR LUBRICATOR
Robert J. Harkenrider, Winona, Minn., assignor to Gladys D. Miller, Winona, Minn.
Application August 10, 1949, Serial No. 109,563
5 Claims. (Cl. 308—132)

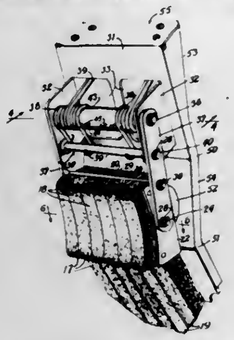


1. In a traction motor lubricator, a laminated applicator including a holder having side pieces and between them a group of felt bodies and stop plates of resilient bearing material with the stop plates projecting beyond the side pieces and the felt bodies projecting beyond the stop plates for rubbing contact with the journal, and a bushing through the side pieces, the felt bodies and the stop plates.

2,640,743
TRACTION MOTOR LUBRICATOR
Robert J. Harkenrider, Winona, Minn., assignor to Gladys D. Miller, Winona, Minn.
Application November 5, 1952, Serial No. 318,804
7 Claims. (Cl. 308—132)

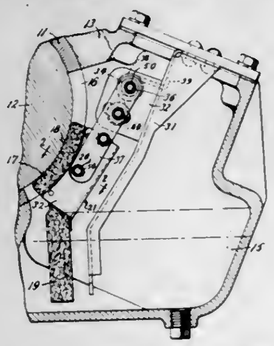
1. In a traction motor lubricator, a base having parallel flanges, aligned tubular bearings carried by the flanges, spaced parallel levers pivotally supported by the tubular bearings, a pad pivotally

carried by and between the levers, and springs on the tubular bearings and acting on the base



and the levers to urge the pad away from the base.

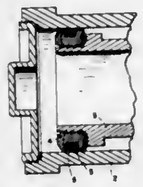
2,640,744
TRACTION MOTOR LUBRICATOR
Robert J. Harkenrider, Winona, Minn., assignor to Gladys D. Miller, Winona, Minn.
Application November 3, 1949, Serial No. 125,310
2 Claims. (Cl. 308—132)



1. In a journal lubricator for traction motors, a carrier including a pair of spaced pivotal arms, resilient mounting means therefor, a holder for a lubricating pad positioned between the arms, a pin pivotally mounting the holder on the arms, and a bearing for the pin including a bushing of polymerized chloroprene cemented to each arm and sleeved around the pin.

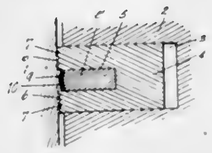
2,640,745
PISTON SEAL
Louis S. Wait, Beverly Hills, Calif., assignor to North American Aviation, Inc.
Application August 7, 1950, Serial No. 178,125
2 Claims. (Cl. 309—23)

2. Sealing means for a piston reciprocable within a cylinder comprising; an adapter attached to the front end of said piston, said adapter having a front rim and a back rim defining a U-shaped channel, said front rim being in bearing engagement with said cylinder and said back rim being spaced therefrom; an O-ring disposed in said channel and compressed between said adapter and said cylinder, whereby fluid pressure against said front end of the piston will lubricate said front rim with respect to said cylinder and said fluid will force said O-ring into



sealing engagement with said back rim thereby substantially precluding flow of fluid past said adapter.

2,640,746
PISTON RING
Harold P. Phillips and Hugo F. Anderson, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich.
Application February 29, 1952, Serial No. 274,108
7 Claims. (Cl. 309—44)

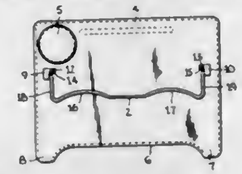


1. A composite piston ring comprising an annular split resilient cast iron body member adapted to be received in a piston ring groove for expansive action therein and having a relatively narrow annular peripheral groove disposed in axially spaced relation to the sides of the body member providing peripheral lands at the sides of the groove, said peripheral lands having thread cut faces providing relatively quick wear-in cylinder wall engaging surfaces, and an annular split expandable ring element of ribbon steel coiled edgewise disposed in said groove in supported relation to the bottom and sides thereof and having a chrome plated peripheral cylinder wall engaging surface initially positioned radially below the said quick wear-in cylinder wall engaging surfaces of said body member and so as not to impede the quick wearing in thereof when the ring is installed.

2,640,747
LAP TABLE
George B. Bodenhoff, Cleveland, Ohio, assignor to Anthony M. Golubich, Cleveland, Ohio
Application July 26, 1951, Serial No. 238,741
2 Claims. (Cl. 311—25)

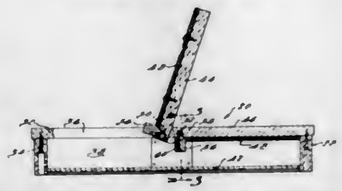
1. In a lap table of the character described, a substantially flat table having laterally-spaced bearing elements extending from the bottom of said table, a table supporting member formed from a single length of wire comprising parallel-spaced arms and having trunnions on their ends disposed in said bearing elements, said bearing elements having portions extending laterally therefrom and formed integrally therewith and lying in the path of movement of said parallel arms to arrest movement of said supporting

member, whereby said supporting member is pivotally movable from a position substantially par-



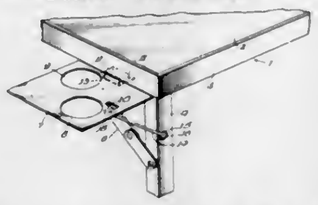
allel with said table to an operative position more than 90 degrees from said first-named position.

2,640,748
OVERBED TABLE
Henry Holmberg, Ludington, Mich., assignor to Marquette Manufacturing Co., Ludington, Mich., a corporation of Michigan
Application April 29, 1952, Serial No. 284,907
7 Claims. (Cl. 311—38)



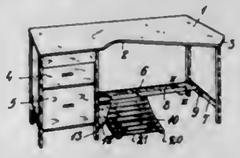
2. An overbed table having a top provided with an opening therein, two covers disposed in abutting relation in said opening hinged at substantially the middle of the table and adapted to be opened from opposite sides thereof, the hinges which secure each cover to the top comprising a groove in the undersurface of the cover adjacent the rearward edge thereof, pivots embedded in the top and extending into said groove from opposite sides of the opening, and rest means mounted on the undersurface of the cover having a tongue thereon extending into said groove and engaging said pivots to hold the latter snugly and securely in the groove.

2,640,749
RACK ATTACHMENT FOR FOLDING TABLES
Richard J. Shanahan, Wilmette, Ill.
Application October 14, 1949, Serial No. 121,323
1 Claim. (Cl. 311—103)



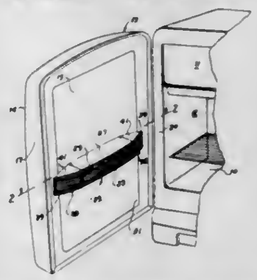
A rack for use in combination with a folding table wherein each leg folds individually against the table top, comprising a thin flat plate having a plurality of openings therethrough for receiving tumblers and ash trays, a hinge secured along one edge of said plate and to the underside of the table top, a strap on the underside of said plate bent away from said plate intermediate the ends of the strap to provide a recess, a supporting link pivotally mounted on a leg of the table, the outer free end of said link being bent angularly to provide one portion to be removably received in said recess and another portion to abut the edge of said strap and support said plate for use, the leg to which said link is attached being foldable when the free end of said link is removed from said recess.

2,640,750
TAILOR'S WORKTABLE TOP
Per Jack Rohde, Oslo, Norway
Application January 23, 1950, Serial No. 140,118
1 Claim. (Cl. 311—106)



In a worktable for tailors, a table top having an edge formed with a peripheral cut-out portion to accommodate the upper portion of the body of a tailor, said cut-out portion being defined by a curved side edge and an opposing straight side edge, a coplanar extension on said table top projecting outwardly from said edge adjacent to the cut-out portion, said extension having an inner side edge constituting a prolongation of the straight side edge of the cut-out portion.

2,640,751
REFRIGERATOR CABINET STRUCTURE, INCLUDING RECEPTACLE AND MOUNTING THEREFOR
Carl G. Robbins, Des Plaines, Ill., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application July 16, 1951, Serial No. 236,879
10 Claims. (Cl. 312—245)



1. In a refrigerator cabinet having a vertically extending supporting wall, a pair of horizontally aligned supports secured to the refrigerator cabinet wall and having vertical end walls extending perpendicular to the cabinet wall, each support also having a top wall extending laterally outwardly from the top edge of the end wall and having a side wall projecting laterally outwardly from the free vertical edge of the end wall, an open top receptacle extending between the end walls of the supports and removably mounted on said supports, said receptacle having end walls respectively positioned adjacent the end walls of the supports and having a side wall forming in

effect a continuation of the side walls of said supports, a lid for the open top of the receptacle forming in effect a continuation of the top walls of the supports, slidably engageable vertically extending guiding means on the end walls of the receptacle and on the adjacent end walls of the supports permitting removal of the receptacle from the supports by lifting the receptacle relative to said supports, and cooperating engaging seating means on the supports and opposite ends of the receptacle for positioning the receptacle vertically relative to the supports.

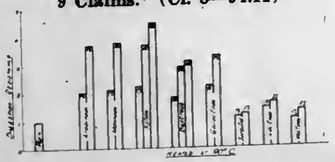
CHEMICAL

2,640,752
PROCESS OF MAKING SUTURES

Herbert L. Davis and Alfred Bloch, Highland Park, N. J., assignors to Ethicon Suture Laboratories Incorporated, a corporation of New Jersey

Application November 30, 1949, Serial No. 130,296

9 Claims. (Cl. 8—94.11)



1. A process for increasing the thermal stability, mechanical stability, and resistance to digestion by proteolytic enzymes of filamentous collagen sutures which comprises the steps of; impregnating filamentous collagen with at least one reducing sugar by immersing said filamentous collagen in a reducing sugar solution, removing and drying the impregnated filamentous collagen at a temperature not greater than 40° C., and heating the dry impregnated filamentous collagen in the absence of water at a temperature within the range of from 70° C. to 156° C.

2,640,753
STERILIZING AIR

Harold B. Morris and Courtland B. Meuser, Ashland, Ohio

No Drawing. Application February 7, 1950, Serial No. 142,935

8 Claims. (Cl. 21—53)

1. A method of inactivating large percentages of pathogenic air-borne organisms within an air space which is at least partially confined, which comprises maintaining in said space over a substantial period of time, at room temperature, a concentration in each two hundred thousand to fifty million parts of air of one part of a glycol ether having a vapor pressure of 0.08 to 10 mm. of mercury at 20° C.

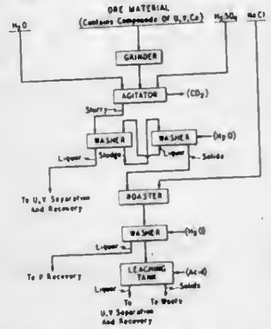
2,640,754
TREATMENT OF CARNOTITE ORE MATERIALS

Adolph Q. Lundquist, Grand Junction, Colo., assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application April 4, 1951, Serial No. 219,214

4 Claims. (Cl. 23—14.5)

1. A method for treating ore materials containing oxidic compounds of uranium, vanadium and calcium which comprises treating such materials with dilute sulfuric acid to convert such calcium compounds to calcium sulfate and to dissolve a portion of such uranium and vanadium compounds; separating the slurry so formed into a liquid solution of uranium and vanadium compounds and a solid portion; roasting said solid portion with a reagent selected from the group consisting of sodium chloride, sodium sulfate, sodium carbonate and sodium nitrate to form a water-soluble vanadate; washing the roasted material with water to separate said vanadate from insoluble residue; leaching said insoluble residue



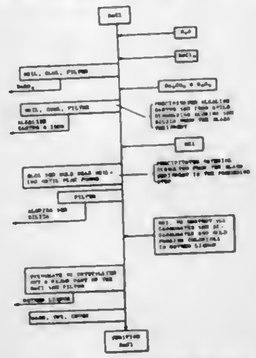
with dilute acid to dissolve therefrom residual compounds of uranium and vanadium; and treating the solution so formed and said first-mentioned uranium compound-vanadium compound solution to recover separately uranium compounds and vanadium compounds therefrom.

2,640,755
PURIFICATION OF ALKALI METAL HALIDES

John O. Hay, Bratenahl, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio

Application April 27, 1950, Serial No. 158,550

8 Claims. (Cl. 23—89)



1. In a process for purification of alkali metal halides to a state of purity in respect to heavy metals and alkaline earth metals exceeding that of U. S. P. or C. P. alkali metal halides, the steps of contacting an aqueous solution, substantially free of sulfate ion, of an alkali metal halide of the class consisting of alkali metal chlorides, bromides and iodides, said aqueous solution being already of relatively high purity, but containing very small quantities of metal compounds as impurities, in equipment having an aluminum-containing glass surface in contact with the solution, with a quantity of the carbonate of the alkali metal being purified amounting to at least 0.4% of the weight of the salt and not exceeding 10% thereof, percentages being by weight, dry basis, separating the resulting insoluble carbonate precipitate from the solution, adding a quantity of acid having the same anion as the salt being treated, in quantity more than one mol but less than two mols per mol of previously added carbonate, whereby dissolved alumina is precipitated in the form of an aluminum-containing floc and some of said carbonate remains in the form of bicarbonate, separating the resulting precipitate, adding sufficient of said acid to react with all said bicarbonate and crystallizing out the alkali metal halide being purified.

2,640,756
MANUFACTURE OF TETRASILICATES

John H. Wills, Chester, Pa., assignor to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application February 9, 1948, Serial No. 7,303

11 Claims. (Cl. 23—111)

8. As new products birefringent tetrasilicates having the formula

$$M_2O.4.3\pm0.02\ SiO_2.zH_2O$$

wherein M represents a chemical equivalent of at least one positive element other than alkali metal, and zH_2O represents water of hydration which may vary from about 1.5 to 7 molecules when dried at 115° C.; said products having the property of being able to exchange cations with solutions of electrolytes, being crystalline compounds with particle sizes usually ranging from about 0.5 to 15 microns, having a resistance towards acid solutions which is several times that of synthetic siliceous zeolites, having a surface area ranging from about 1×10^6 to 22×10^6 square centimeters per gram, a surface hardness above 6.5 on the Moh scale and an absorptivity for water ranging from about 2 to 45% by weight at a relative humidity of 100%.

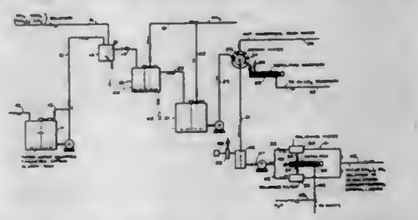
2,640,757
PRODUCTION OF AMMONIUM SULFATE AND CALCIUM CARBONATE

Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 23, 1949, Serial No. 117,450

12 Claims. (Cl. 23—119)

1. A process for the manufacture of ammonium sulfate and calcium carbonate which comprises reacting an aqueous slurry of calcium sulfate and an aqueous solution of ammonium carbonate in a plurality of reaction zones in the presence of a minor quantity of ammonium bicarbonate, said reaction zones being of progressively larger size and of decreasing agitation, passing the reactants and sufficient ammonium bicarbonate to maintain the pH between 6 and 8 to the first of said reaction zones, passing the effluent from said first reaction zone to subsequent reaction zones where sufficient ammonia is added to react with the ammonium bicarbonate and increase the pH from that in the first zone up to 9 to 10 in the last zone, maintaining a progressively increasing residence time in the



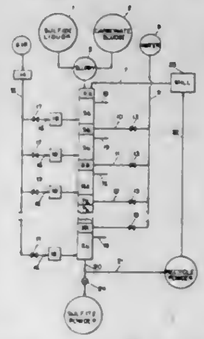
reaction zones, separating product ammonium sulfate and calcium carbonate, and recovering high yields of ammonium sulfate and easily purified calcium carbonate.

2,640,758
METHOD OF OXIDIZING SODIUM SULFIDE TO SODIUM SULFITE IN SUCCESSIVE STAGES

Robert S. Aries and Arthur Pollak, New York, N. Y.

Application February 23, 1949, Serial No. 77,935

6 Claims. (Cl. 23—129)



1. The method of oxidizing sodium sulfide to sodium sulfite in successive stages which comprises mixing a concentrated sodium sulfide solution with inert powdered solids to form a fluffy, discontinuous mass, agitating and aerating the mass at an oxidizing temperature of about 250° F. to 300° F. to effect oxidation of sodium sulfide, and continuing the agitation and aeration and adding sufficient water to the mass to keep the unoxidized sodium sulfide in solution during the later stages of the oxidizing treatment.

2,640,759
PROCESS OF PRODUCING MAGNESIA

Vaughn V. Hughey, Tiffin, Ohio, assignor to Basic Refractories, Incorporated, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application September 22, 1949, Serial No. 117,269

10 Claims. (Cl. 23—201)

1. In a process of producing magnesia, comprising the following steps: mixing un-burned magnesia-providing material selected from the class consisting of magnesite, brucite, dolomite,

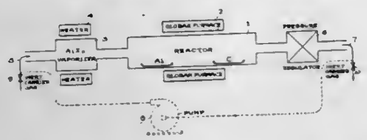
precipitated magnesium hydroxide and precipitated magnesium carbonate with a minor portion of hydratable alkaline earth oxide of the group consisting of magnesium oxide and calcium oxide, the particle size of the mixture not exceeding 35 mesh, providing a moisture content of 3–6 per cent, compressing the mixture into small bodies with rounded surfaces, and dead burning the same at a temperature of 2900–3300° F. in a rotary kiln whereby dust and loss in such rotary firing is eliminated.

2,640,760

METHOD OF PRODUCING ALUMINUM CARBIDE

Charles C. Heim, deceased, late of Spokane, Wash., by Pauline Bailey Heim, executrix, Essex Junction, Vt., assignor to Kaiser Aluminum and Chemical Corporation, Oakland, Calif., a corporation of Delaware

Application January 16, 1952, Serial No. 266,716
12 Claims. (Cl. 23—208)



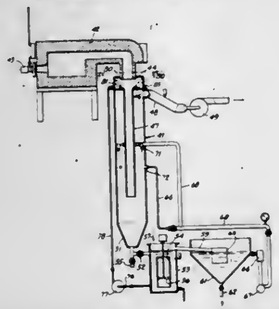
1. A method of producing aluminum carbide which comprises heating carbon and aluminum material in particulate form at a temperature of from about 900° C. to 1300° C. and at a pressure in the range from 100 to 2000 mm. Hg in the presence of vapors of a volatile aluminum halide, to form aluminum carbide.

2,640,761

EVAPORATING APPARATUS

James V. Wiseman, Westend, Calif., assignor to West End Chemical Company, a corporation of California

Application November 25, 1949, Serial No. 129,393
3 Claims. (Cl. 23—275)



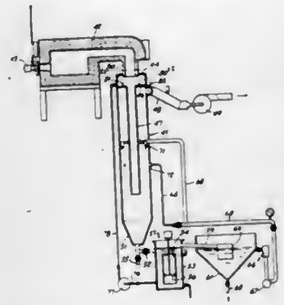
1. Concentrating apparatus comprising a vertical tubular metal shell having an upper end and a lower end, a pipe having an upper and a lower end and depending concentrically in said tubular metal shell in a spaced relation to each end of said shell to provide a gas space therebetween, an inverted truncated cone having its upper end joined to the upper end of said shell and its lower end joined to the upper end of said pipe to provide a closure between said shell and said pipe, means for discharging a hot dry gas into said cone at the upper end of said tubular metal shell, means for discharging a liquid to be evaporated onto the upper surface of said cone to maintain said cone and said pipe completely covered with a liquid film, means for spraying additional liquid into the gas space between the shell and the pipe, means for collecting and withdrawing concentrated liquid at the bottom of the shell, and means for withdrawing relatively cold wet gas from between the pipe and shell adjacent the underside of said cone.

2,640,762

PROCESS FOR EVAPORATING SODIUM SULFATE SOLUTIONS AND RECOVERING SODIUM SULFATE THEREFROM

James V. Wiseman, Westend, Calif., assignor to West End Chemical Company, a corporation of California

Original application November 25, 1949, Serial No. 129,393. Divided and this application July 13, 1951, Serial No. 236,608
2 Claims. (Cl. 23—302)



1. A process for evaporating water from an aqueous solution of sodium sulfate comprising continuously spraying the solution into an upper portion of an evaporation zone, continuously introducing into an upper portion of said zone, but out of direct contact therewith, a dry hot gas and additional sodium sulfate solution, conducting said gas and additional sodium sulfate solution downwardly through said evaporation zone but still out of direct contact therewith and then reversing the gas flow up into the evaporation zone into direct contact with said sprayed solution, while confining said gas in a region bounded and defined by a continuous film of solution, maintaining all surfaces defining said zone wet continuously with a film of said solution, collecting solution from said zone adjacent the bottom thereof, and recovering solid sodium sulfate from the solution.

2,640,763

ETCHING

John A. Easley and Harry E. Swayze, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 12, 1951, Serial No. 210,614
15 Claims. (Cl. 41—42)

1. An etching bath comprising a mixture of a saturated aliphatic acid having from 5 to 26 carbon atoms and an aqueous solution containing nitric acid, the hydroxyl portion of said aliphatic acid being only in the carboxylic grouping.

2,640,764

ETCHING

John A. Easley and Harry E. Swayze, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 12, 1951, Serial No. 210,615
13 Claims. (Cl. 41—42)

1. An etching bath for etching an acid soluble metal comprising a mixture of an aqueous solution containing nitric acid and an ester of an aliphatic acid having from 12 to 18 carbon atoms and a polyhydric aliphatic alcohol having from 2 to 6 carbon atoms.

2,640,765

ETCHING

John A. Easley and Harry E. Swayze, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 12, 1951, Serial No. 210,616
17 Claims. (Cl. 41—42)

1. An etching bath comprising a mixture of an aqueous solution containing nitric acid, an ester of sulfosuccinic acid and an aliphatic alcohol having from 4 to 12 carbon atoms, and a water-immiscible organic liquid substantially unreactive with the aqueous nitric acid solution.

2,640,766

ETCHING

John A. Easley and Harry E. Swayze, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 12, 1951, Serial No. 210,617
10 Claims. (Cl. 41—42)

1. An etching bath for etching magnesium or magnesium-base alloy comprising a mixture of an aqueous solution of nitric acid containing from 3 to 50 per cent of HNO_3 and an ester of sulfosuccinic acid and an aliphatic alcohol having from 4 to 12 carbon atoms, the amount of the ester being from 0.0014 to 0.15 times the amount of the HNO_3 in the nitric acid solution.

2,640,767

ETCHING

John A. Easley and Harry E. Swayze, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 12, 1951, Serial No. 210,618
5 Claims. (Cl. 41—42)

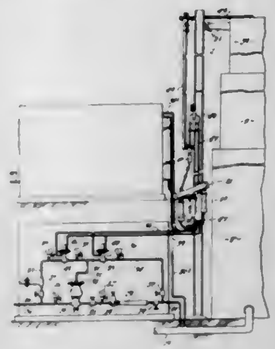
1. An etching bath comprising a mixture of a petroleum sulfonate having from 18 to 30 carbon atoms, a liquid petroleum fraction boiling in the range of 90° to 390° C., and an aqueous solution containing from 3 to 25 per cent of HNO_3 by weight, the amount of the petroleum sulfonate being from 0.01 to 0.2 of that of the HNO_3 in the aqueous solution, and the weight of the liquid petroleum fraction being at least 1.3 times the weight of the petroleum sulfonate but not more than 0.15 of the weight of the aqueous nitric acid solution.

2,640,768

AUTOMATIC ON AND OFF CONTROL SYSTEM FOR GAS PLANTS

Charles MacSporran, Bartlesville, Okla., and Owen L. Garretson, Roswell, N. Mex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application June 25, 1948, Serial No. 35,116
3 Claims. (Cl. 48—190)



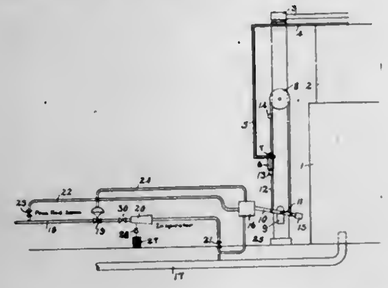
1. In a gas supply system, the combination comprising a variable volume gas holder normally supplied from a primary gas source, said gas holder including a top section movable vertically with changes in the volume of gas contained therein, a first conduit connecting a supplementary gas supply to said holder, a first control valve in said first conduit, a second conduit connecting a supplementary gas supply to said holder, a second control valve in said second conduit, a first pulley mounted adjacent said gas holder, a cable carried by said pulley, a pivoted member carried by said cable and adapted to assume a first position upon movement of said cable in one direction and a second position upon movement of said cable in the opposite direction, a second pulley mounted adjacent said gas holder, a cable carried by said second pulley, a pivoted member carried by said second cable and adapted to assume a first position upon movement of said cable in one direction and a second position upon movement of said cable in the opposite direction, means carried by the movable section of said gas holder adapted to cause movement of said first cable in one direction upon downward movement of said gas holder to a predetermined point and adapted to cause movement of said second cable in the same direction upon further downward movement of said gas holder, said last means also adapted to cause simultaneous movement of said cables in the opposite direction upon movement of said movable section to the full position of said gas holder, and valve actuating means responsive to the positions of said pivoted members whereby said control valves are opened upon movement of said pivoted members to said first positions and closed upon movement of said pivoted members to said second position.

2,640,769

GAS SUPPLY CONTROL SYSTEM

Charles MacSporran, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application May 11, 1948, Serial No. 26,273
11 Claims. (Cl. 48—190)



1. A gas supply system comprising in combination a gasometer normally supplied from a gas generating source, said gasometer having a movable top section, a pipe system for supplying gas to and from said gasometer, an auxiliary gas supply line for said system including a control valve, means for actuating said valve, and mechanical connection from said means to said movable section whereby movement of said section in one direction opens said valve to effect the introduction of gas to said gasometer and supply system when the generating source is supplying insufficient gas to meet the demand on said gasometer and movement in the other direction closes said valve when the generating source is supplying sufficient gas to meet the demand on said gasometer.

2,640,770

IGNITING COMPOSITION AND METHOD OF PREPARING SAME

Sidney J. Magram, Baltimore, and John J. Blissel, Kingsville, Md.

No Drawing. Application May 29, 1951, Serial No. 228,962
2 Claims. (Cl. 52—2)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An igniting composition consisting of about 70 parts by weight of ferric oxide and about 30 parts by weight of titanium.

2. A method of preparing an igniting composition paste which comprises mixing about 30 parts by weight of titanium with water, mixing the ingredients to form a smooth paste, adding about 70 parts by weight of ferric oxide, blending the mixture, and then drying said mixture.

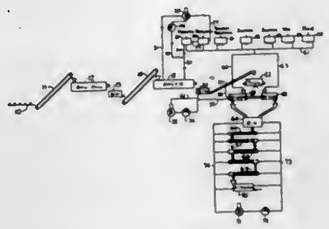
2,640,771

PROCESS OF PRODUCING FUSEE COMPOSITIONS

Herbert C. Clauser and Robert S. Long, Westerville, Ohio, assignors, by mesne assignments, to Kilgore Inc., Westerville, Ohio, a corporation of Ohio

Application October 12, 1949, Serial No. 121,026
2 Claims. (Cl. 52—23)

1. A process for converting fusee composition to a plastic state for extrusion purposes which comprises the steps of reducing a metallic nitrate to a pulverant form; heating said metallic nitrate in pulverant form to a temperature maintained in the range of about 180° F. to 200° F.; mixing said metallic nitrate while heated with potassium perchlorate, sawdust, sulphur, paraffin, carnauba



wax, petrolatum and hemp fibers; and then working the mixed mass of fusee composition at a temperature maintained in the range of about 130° F. to 140° F. until the mixed mass attains a plastic condition having a dough-like consistency.

2,640,772

PLANT FERTILIZER

John Morris Arthur, Yonkers, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc., a corporation of New York

No Drawing. Application January 18, 1950, Serial No. 139,324
4 Claims. (Cl. 71—18)

1. A composition of matter for the growing of plants which comprises as a major active constituent from 1/8 to 1/2 part by volume of an organic nitrogen-bearing material of the group consisting of wool, hair and feather in admixture with not more than 3% by volume of undigested carbohydrate material of plant origin a relatively small proportion of an inorganic nitrate which releases nitrogen rapidly to serve as a starter for a young plant, and an inorganic phosphate, said composition being so balanced between carbohydrate and organic nitrogen content that it furnishes during its decomposition a steady supply of nitrogen for growing plants in small containers without injury due to excess soluble nitrogen and at the same time increases the fixation of atmospheric nitrogen by micro-organisms when mixed with neutral soil.

2,640,773

TITANIUM BASE ALLOYS

Richard K. Pitler, Menands, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania

No Drawing. Application January 25, 1952, Serial No. 268,333
12 Claims. (Cl. 75—177)

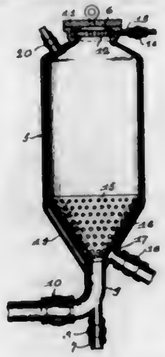
4. An improved titanium base alloy which contains about 1 to 4% iron, up to about .30% maximum of each of the gases oxygen and nitrogen, at least two metals within the ranges specified from the group consisting of: chromium about .5 to 5%, manganese about .5 to 6%, and molybdenum about .5 to 5%, the iron-plus-alloying metal content being less than 10% but not less than about 5%, and the balance titanium with incidental impurities.

2,640,774

PRODUCTION OF CELLULOSE PULP

James Hamilton Ross, John Semple Hart, Richard Kevin Strapp, and Otto Maass, Montreal, Quebec, Canada, assignors, by mesne assignments, to Pulp and Paper Research Institute of Canada, Montreal, Quebec, Canada

Application July 16, 1949, Serial No. 105,162
8 Claims. (Cl. 92—6)



1. In the production of cellulose pulp from fibrous plant material, the process which consists of the steps of introducing plant material in subdivided condition into a pressure vessel; displacing air in said pressure vessel with steam; subjecting said plant material within said pressure vessel to a pre-treating operation which comprises introducing steam under pressure to establish within the capillary interstices of the plant material a mixture of air and steam until a pressure of from about five to about fifty pounds per square inch gage pressure is reached, then discontinuing the introduction of steam, and while excluding additional air from said pressure vessel forthwith rapidly withdrawing said mixture of air and steam from said pressure vessel and from the interstices of said plant material until a pressure is reached within the range of from atmospheric pressure to a gage pressure half that which existed when the introduction of steam was discontinued; thereafter immersing said pre-treated plant material in cooking liquor while continuing to exclude air from said plant material; and then cooking said pre-treated plant material.

2,640,775

METHOD OF RESTORING X-RAY FILM

Frank X. Hohn, St. Louis, and Francis H. Hohn, Webster Groves, Mo., assignors to Scullin Steel Co., St. Louis, Mo., a corporation of Missouri

No Drawing. Application February 23, 1951, Serial No. 212,518
4 Claims. (Cl. 95—7)

1. In a method of restoring an unexposed age fogged emulsion layer comprising substantially completely silver halide to substantially its original condition without substantially affecting the original speed, contrast and latitude, the step which consists in subjecting said emulsion layer to the action of a solution containing a ratio of approximately 750 cc. water, approximately 9 to 11.5 grams of potassium ferricyanide as an oxidizing agent, approximately 4.5 to 6 grams potassium bromide, and sufficient additional water to make 1000 cc. for a period of approximately 3 minutes.

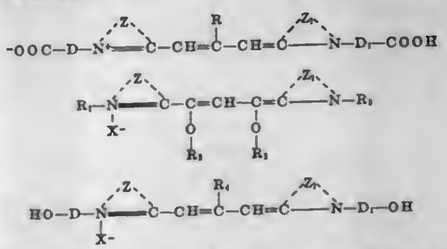
2,640,776

SENSITIZED PHOTOGRAPHIC EMULSION CONTAINING COLOR COUPLERS

John Spence and Burt H. Carroll, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

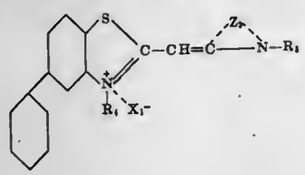
No Drawing. Application August 29, 1947, Serial No. 771,380
11 Claims. (Cl. 95—7)

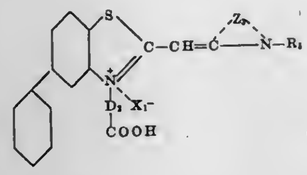
11. A sensitive silver halide emulsion for color photography selected from the group consisting of (I) a red sensitive silver halide emulsion containing dispersed therein finely divided liquid particles of a mixture of a phenolic color-former for the cyan image capable of forming a quinoneimine dye with a phenylenediamine developer, and a substantially water-insoluble, low molecular weight, organic, crystalloidal material having a boiling point above about 175° C., said crystalloidal material having a high solvent action for the color-former and for the dye formed therefrom, and being permeable to photographic processing solutions, the nature and proportions of the color-former and crystalloidal material being so chosen that particles thereof are liquid under conditions of coating and processing the emulsion, said red sensitive emulsion being sensitized to the red with at least one sensitizing dye selected from the group consisting of those dyes represented by the following general formulas:

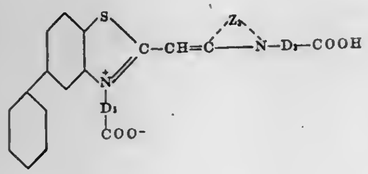


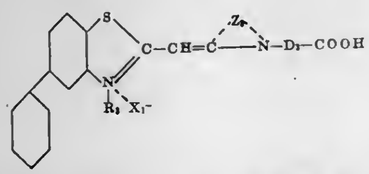
wherein D and D_1 each represents a divalent aliphatic hydrocarbon radical containing from 1 to 4 carbon atoms, R and R_4 represent a member selected from the group consisting of a hydrogen atom and an alkyl group consisting from 1 to 4 carbon atoms, Z and Z_1 each represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of heterocyclic nuclei of the benzothiazole series, heterocyclic nuclei of the benzoselenazole series, heterocyclic nuclei of the naphthothiazole series and heterocyclic nuclei of the naphthoselenazole series, R_1 and R_3 each represents an alkyl group containing from 1 to 2 carbon atoms, R_2 represents a monocyclic aryl group of the benzene series, and X represents an anion, and (II) a yellow-green sensitive silver halide emulsion containing dispersed therein finely divided liquid particles of a mixture of a ketomethylene color-former for the magenta image capable of forming a quinoneimine dye with a phenylenediamine developer, and a substantially water-insoluble, low molecular weight, organic, crystalloidal material having a boiling point above about 175° C., said crystalloidal material having a high solvent action for the color-former and for the dye formed therefrom, and being permeable to photographic processing solutions, the nature and proportions of the color-former and crystalloidal material being so chosen that particles thereof are liquid under conditions of coating and processing the emulsion, said yellow-green sensi-

tive silver halide emulsion being sensitized to the yellow-green with at least one sensitizing dye selected from the group consisting of those dyes represented by the following general formulas:









wherein R_4 and R_5 each represents an alkyl group containing from 1 to 4 carbon atoms, X_1 represents an anion, D_2 and D_3 each represents a divalent aliphatic hydrocarbon radical containing from 1 to 4 carbon atoms, and Z_3 represents the non-metallic atoms necessary to complete a heterocyclic nucleus of the quinoline series.

2,640,777

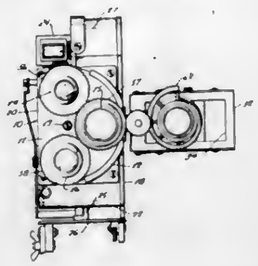
VIEW-FINDER ATTACHMENT FOR CAMERAS

Leroy F. Fachman, Port Clinton, Ohio

Application September 27, 1949, Serial No. 118,051

6 Claims. (Cl. 95—44)

1. In combination with a camera having movably mounted adjustable lens assemblies selectively movable to operative position, and focus adjusting gears mounted one on each lens assembly, a view finder attachment comprising a U-shaped bracket having elongated openings in its legs and having its bight attached to one side of the camera, an apertured mounting block adjustably mounted in the opening in one of said legs, a telescope tube pivotally mounted near one end in said mounting block and extending through the elongated opening in the other leg of said bracket, a rotatably adjustable lens assembly on the other end of said tube, a manually-rotatable shaft journaled in the legs of said bracket adjacent the bight thereof, a knob on said shaft at the outer side of said one bracket leg, gears on said shaft engageable respectively with the focusing gears on the several picture lens assemblies of the camera, a spiral-shaped cam gear on the lens assembly carried by said tube for adjusting the focus of such lens, a gear on said shaft meshing with said cam gear, gears on said shafts selectively meshable with said focus adjusting gears, and resilient means connected between said tube and said bracket maintaining said cam gear in mesh with



the associated shaft-carried gear and the operative lens focusing gear in mesh with the corresponding shaft-carried gear while permitting said tube-carried lens to move toward and away from the operative camera picture lens as said shaft is rotated to simultaneously adjust the focus of the view-finder lens and the camera lens and vary the angular relationship between the axis of said view finder lens and the axis of the operative camera lens, said shaft being free to move toward and away from the bight portion of said bracket when said several picture lens assemblies are interchanged.

2,640,778

METHOD OF ENRICHING SUGAR WITH A VITAMIN COMPONENT AND PRODUCT DERIVED THEREFROM

William L. Owen, Baton Rouge, La.

No Drawing. Application March 26, 1951, Serial No. 217,666

15 Claims. (Cl. 99—11)

1. The method of enriching sugar with a vitamin component comprising incorporating in a sugar syrup which is at about the point of crystallization, a solution containing a vitamin complex synthesized by growing a culture of *Azotobacter vinelandii* in a sugar-containing substrate, crystallizing from the resulting mass crystals of sugar having the vitamin complex incorporated within the interior structure of the crystals of sugar, and separating the so-produced sugar crystals from adhering syrup.

2,640,779

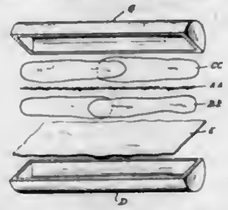
TURKEY PRODUCT AND METHOD OF PREPARING SAME

Fred George, Berkeley, Calif., assignor of one-half to Norbest Turkey Growers Association, Salt Lake City, Utah

Application January 3, 1950, Serial No. 136,544

10 Claims. (Cl. 99—107)

1. A food product comprising bone and tendon free turkey meat arranged in layers and containing edible flavor spread uniformly therein, said meat and edible flavor positioned and proportioned to impart a substantial uniformity of taste and texture throughout the product.



2,640,780

ANTISPATTERING MARGARIN

Morris Mattikow, New York, N. Y., assignor to Benjamin Clayton, doing business as Refining, Unincorporated

No Drawing. Application November 14, 1949, Serial No. 127,236

5 Claims. (Cl. 99—123)

1. As a product of manufacture, a margarin comprising, a margarin oil, water, milk solids, and a small amount of the methanol-soluble fraction of oil-free vegetable oil phosphatides as an emulsifying and anti-spattering agent, said margarin being substantially free from methanol-insoluble vegetable oil phosphatides and from the impurities associated with the original carrier oil of said vegetable oil phosphatides.

2,640,781

FOOD PRODUCTS AND METHOD OF PRODUCING THE SAME

Jan Grader, Washington, D. C.

No Drawing. Application August 8, 1950, Serial No. 178,340

4 Claims. (Cl. 99—126)

1. The process of producing a stabilized food product comprising the steps of cooking a mixture including gelatinous meat stock, shelled roasted peanuts and at least one ingredient selected from the group consisting of pimentos and tomatoes until the peanuts swell and tenderize and then finally dividing the resulting mixture.

2,640,782

PRINTING INK CONTAINING A POLYMERIZED OLEFIN

Herman S. Bloch, Chicago, and Alfred E. Hoffman, Clarendon Hills, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 10, 1949, Serial No. 132,424

8 Claims. (Cl. 106—28)

1. A printing ink composition comprising a pigment and, as a vehicle for the pigment, a mixture of an unsaturated fatty acid glyceride drying oil and a hydrocarbon drying oil consisting essentially of polyolefinic, high molecular weight hydrocarbons formed by the hydrogen fluoride catalyzed copolymerization, at a temperature of from about —80° C. to about —20° C., of a mixture of from about 60 to about 95% by weight of an aliphatic conjugated diolefin of not more than 8 carbon atoms and from about 40 to about 5% by weight of an aliphatic isomono-olefin of not more than 8 carbon atoms.

2,640,783

INK HAVING IMPROVED DRYING PROPERTIES

Albert Charles Zettlemoyer, Bethlehem, Pa., and Isidor Mayer Bernstein, Brooklyn, N. Y., assignors to National Printing Ink Research Institute, Bethlehem, Pa., a nonprofit organization

No Drawing. Application February 2, 1950, Serial No. 142,094

5 Claims. (Cl. 106—28)

4. An ink comprising a pigment, a drying oil, and cobalt borate in the form of a flushed precipitated pulp and in a concentration by weight between 0.08% and 2.0% cobalt as metal.

2,640,784

COMPOSITION OF GLASS, ESPECIALLY FOR FIBERS

Ralph L. Tiede, Newark, Ohio, and Fay V. Tooley, Urbana, Ill., assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

No Drawing. Application January 21, 1950, Serial No. 139,982

5 Claims. (Cl. 106—50)

2. Glass having substantially the following composition by weight:

	Per cent
SiO_2	55 to 60
TiO_2	4 to 12
ZrO_2	1 to 7
B_2O_3	5 to 8
Na_2O	11 to 15
Al_2O_3	3 to 5
F	3 to 5

2,640,785

STABILIZED CELLULOSE ESTER COMPOSITIONS

John Kenneth Craver, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 20, 1949, Serial No. 122,600

10 Claims. (Cl. 106—189)

1. A composition of matter comprising a cellulose derivative selected from the group consisting of cellulose esters of lower fatty acids and cellulose nitrate, a plasticizer for said cellulose derivative and a compound selected from the group consisting of α-phenyl-2-ethylcyclohexanol and α-cyclohexyl-2-ethylcyclohexanol as a stabilizer for the cellulose ester in stabilizing amounts.

2,640,786

COATING COMPOSITION AND FIRE RESISTANT BUILDING ELEMENT COATED THEREWITH

Joseph R. Parsons, Chicago, Ill., Morton C. Higgs, Bell, Calif., and Mary A. Loos, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 8, 1948, Serial No. 37,536

10 Claims. (Cl. 106—282)

1. A coating composition applicable to inherently combustible base-sheet material to form therewith a relatively fire-resistant building-covering material comprising a filled thermoplastic bituminous binder containing from about 30% to about 70% by weight of asphalt, from about 10% to about 25% by weight of small tightly rolled up mineral wool masses having a diameter such that they will pass through a 3-mesh screen

but be retained on a 20-mesh screen, and enough of an inorganic filler from the group consisting of ground minerals and asbestos to make 100% by weight.

6. A building element having water- and fire-resistant qualities, comprising an inherently combustible base-sheet material coated with the composition of claim 1.

2,640,787

MANUFACTURE OF CARBONACEOUS MOLDING COMPOSITIONS

Charles Desmond Greaves and William Duncan Parker, London, England, assignors to C. D. Patents Limited, London, England, a British company

No Drawing. Application October 11, 1948, Serial No. 53,992. In Great Britain October 15, 1947

4 Claims. (Cl. 106—285)

1. A process for the manufacture of a dough-like extrusible composition consisting mainly of coal from non-bituminous, non-agglutinating coal, which process comprises mixing the coal, 95% of which passes a 200 mesh sieve, with a relatively high boiling softening agent in the amount of 10% to 30% by weight of the mixture, heating the mixture to a temperature between 60° C. and 180° C., digesting the mixture with continued mixing for between 2 and 8 hours, allowing the mixture to cool and thereafter adding and mixing a solvent having a lower boiling point than said softening agent to reduce the consistency of said mixture, which solvent is non-reactive with the aforesaid mixture and is present in a weight less than that of the softening agent.

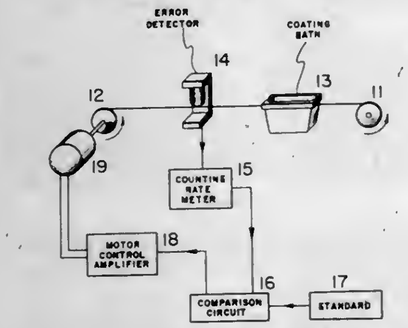
2,640,788

COATING CONTROL SYSTEM

John F. Rockett, Jr., Medford, Mass., assignor to Columbia Broadcasting System, Inc., Salem, Mass., a corporation of New York

Application October 4, 1951, Serial No. 249,773

4 Claims. (Cl. 117—33.25)



2. Coating control apparatus comprising, a first reel holding uncoated wire; a coating bath containing coating material and a minute quantity of radioactive tracer material having a short half-life, a radiation detecting device, a wind-up reel to draw said uncoated wire from said first reel and consecutively through coating bath and past said detecting device, a motor for driving said wind-up reel, a standard source of radiation, and means responsive to the difference between radiation from said standard source and that detected by said radiation detecting device for varying the speed of said motor.

2,640,789

METHOD OF PRODUCING REINFORCED WIRE NETTING

Joseph Hausner, Jamaica, N. Y.

Application December 4, 1948, Serial No. 63,575

1 Claim. (Cl. 117—65)

The method of producing reinforced wire netting which comprises immersing a wire screen of a metal of higher electromotive force and higher melting point than copper in a relatively concentrated aqueous solution of crystalline copper sulphate and sulphuric acid to produce a metal coating upon said screen, and heating the coated screen in a non-oxidizing atmosphere at a temperature sufficient to fuse the coating upon the wire screen and to braze the wires at their intersections.

2,640,790

COATED PAPER AND PROCESS FOR MAKING SAME

Edwin J. Barber, Newport, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 26, 1949, Serial No. 123,789

3 Claims. (Cl. 117—157)

1. The process for preparing a coated paper of the type having a base of cellulosic fibers and a printing surface consisting essentially of a film of contiguous pigment particles interspersed in binder by means of which the pigment particles are bound together and are retained on the base comprising dispersing a pigment in an aqueous solution of a binder consisting essentially of a water-soluble metal salt of a cellulose ethyl ether β-sulfonic acid to form a viscous coating color having from about 30% to about 65% total solids and having said binder present in the amount of between about 5% and about 15%, based on the weight of the pigment, covering a web of said paper with a coating of said viscous coating color, and drying the paper to form a coated paper having excellent receptivity to printing.

2,640,791

COATED PAPER

Edwin J. Barber, Newport, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 26, 1949, Serial No. 123,790

4 Claims. (Cl. 117—157)

1. A coated paper having a base of cellulosic fibers and a printing surface consisting essentially of a film of contiguous, water-insoluble, inorganic pigment particles interspersed in binder by means of which the pigment is retained on the base, said binder consisting of a water-soluble inorganic salt of a carboxymethyl hydroxyethyl cellulose, said film containing from about 5 to about 15 parts by weight of said binder to 100 parts by weight of the pigment.

2,640,792

INERT MONATOMIC-GAS SHIELDED REFRACTORY METAL REMELTING SURFACE-DEFECT REMOVAL PROCESS

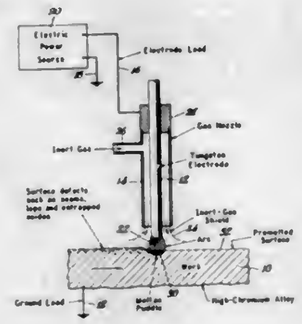
William O. Binder, Niagara Falls, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application January 29, 1951, Serial No. 208,395

1 Claim. (Cl. 148—10)

Process of removing surface and subsurface defects including laps and seams due to metal

splashing, from ingots composed of relatively high-alloy refractory metals prior to hot rolling in order to insure satisfactory surface quality of the resulting product without the loss of any of the refractory alloy metal thereof and without any change in the composition of the base metal, which comprises positioning the ingot so that the surface to be conditioned is uppermost and substantially level, striking a relatively heavy duty arc between such surface of the ingot and a refractory metal electrode composed of tungsten; continuously shielding such arc and the adjacent portions of the electrode and ingot with an annular stream of monatomic gas of the class consisting of argon and helium and mixtures of argon and helium discharged from a nozzle surrounding such electrode in spaced concentric relation therewith at a gas flow rate of twenty-five to forty cubic feet per hour,



positioning the end of such nozzle as closely as possible to the surface of said ingot at a distance of not more than three-eighths of an inch, continuously moving said gas shielded arc with respect to the ingot surface at a speed of the order of about ten inches per minute while maintaining such critical spacing between said nozzle and the ingot surface, continuously supplying such arc with a current of the order of 400–450 amperes, deeply melting the ingot metal under such arc to a depth of the order of about one-fourth of an inch progressively and without interruption along the path of movement of such arc with respect to such surface, floating out oxides and other foreign matter, leaving a defect-free bead of homogeneous metal of exactly the same composition as that of the base metal and repeating such steps to form adjacent beads having laterally overlapping sides without crevices or cracks therebetween.

2,640,793

COMPOSITION OF MATTER

Richard L. Doerr, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application February 4, 1952, Serial No. 269,905

5 Claims. (Cl. 148—26)

1. A flux composition for aluminum soldering which essentially comprises about 50 to 90 weight per cent stannous chloride, about 5 to 30 weight per cent of zinc dihydrazinium chloride and about 5 to 30 weight per cent of a hydrazine monohydrohalide selected from the group consisting of hydrazine monohydrochloride and hydrazine monohydrobromide.

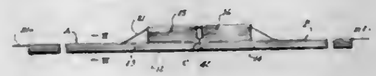
2,640,794

PACKING STRIP

Willard P. Boysen, Winnetka, Ill.

Application June 6, 1952, Serial No. 292,077

8 Claims. (Cl. 154—53.6)



1. A packing strip comprising a laminated corrugated board structure of varying thickness but of constant width throughout its length, there being a cut partially through said structure to provide cushioning sections having an integral connecting portion, and a continuous strip of soft fibrous padding material secured to corresponding faces of said cushioning sections the full width thereof and providing with said connecting portion a hinge between said cushioning sections whereby said cushioning sections can be folded against each other with said padding therebetween, the backs of said sections opposite said continuous padding strip having slots extending lengthwise thereof, and a tie-band of greater length than said slots positioned therein and continuous between said sections.

2,640,795

FRICTION ELEMENT AND METHOD OF FORMING SAME

Elmer C. Bertolet, Jr., Lititz, Pa., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey

Application August 14, 1951, Serial No. 241,855

7 Claims. (Cl. 154—81)

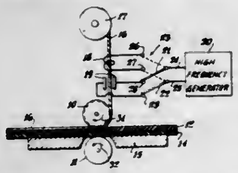


1. An endless clutch facing comprised of a spirally wound strip of thin, flexible, consolidated and condensed carded long fiber asbestos web material of relatively high porosity, the fibers extending generally longitudinally of the strip, said strip being longitudinally folded to provide a symmetrical cross-sectional form and the coils thereof being secured together in internesting relationship.

6. The method of forming a friction element suitable for use as a clutch facing, which comprises impregnating a strip of relatively thin, porous, flexible asbestos sheet material composed of carded and condensed spinning grade asbestos fibers substantially uniformly distributed and directionalized longitudinally of the strip, with a heat-hardenable binder-friction material filler composition cement, drying solvent content from said cement, convolutely winding said strip ma-

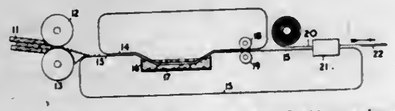
terial to form an annular body, and subjecting said body to heat and pressure to consolidate said strip.

2,640,796
METHOD OF BONDING
Nicholas Langer, New York, N. Y.
Application March 26, 1952, Serial No. 278,570
11 Claims. (Cl. 154—90)



1. The method of heat sealing layers of thermoplastic material which comprises bringing regions of the layers to be heat sealed into face-to-face superposed position, preheating an elongated member to heat sealing temperature in the absence of contact with the layers to be sealed, and pressing said preheated member against said regions of the layers to cause heating and bonding of said member and of said layers in such regions.

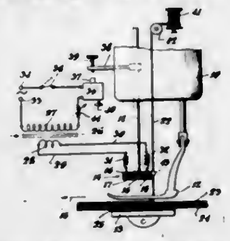
2,640,797
PRODUCTION OF SYNTHETIC RESINOUS MATERIALS
Cyril G. Evans, Farnborough, and Peter H. H. Bishop, Gosport, England, assignors to Minister of Supply in His Majesty's Government, London, England
Application June 13, 1949, Serial No. 98,854
In Great Britain July 2, 1948
4 Claims. (Cl. 154—100)



1. A method of producing synthetic resinous material reinforced with substantially parallel asbestos fibres comprising only the steps of feeding asbestos rock to a series of crushing rolls, the natural planes of cleavage of said asbestos rock being oriented substantially normally to the axes of said crushing rolls, impregnating the mass of fibres resulting from said crushing with synthetic resinous material to retain the positional relation of said fibres, the relative positions of said fibres being kept substantially the same between said crushing step and said impregnating step, and drying said impregnated mass.

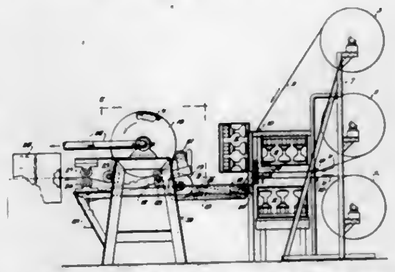
2,640,798
METHOD OF BONDING
Nicholas Langer, New York, N. Y.
Application February 27, 1951, Serial No. 212,880
14 Claims. (Cl. 154—126)

1. The method of heat sealing layers of thermoplastic material which comprises bringing regions of the layers to be heat sealed into face-to-face superposed position, pressing an elongated electrically conducting member against said region of the layers, and passing an electric current through said member to cause heating thereof and of the region of the layers in contact therewith to heat sealing temperatures and permanent bonding of said member and of said



thermoplastic layers into a single heat sealed structure.

2,640,799
PROCESS OF CONTINUOUSLY UNITING RESIN IMPREGNATED CELLULOSIC WEBS FOR DECORATIVE COVERINGS
Donald H. Grangaard, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application May 19, 1948, Serial No. 27,977
11 Claims. (Cl. 154—138)



1. The process of manufacturing, as a continuous operation, an extended length of laminated sheet material containing a thermoset resin of the unsaturated polyester type, which comprises the steps of drying a plurality of webs of fibrous material, impregnating said webs with a low viscosity, polyester resin which said resin is in the reacted, liquid state, effecting substantially complete removal of air from said webs, adjusting the resin content of said webs to a predetermined value, bringing said webs into superposed relationship with each other, pressing the superposed webs into immediate contact with a heated surface of large heat mass, maintaining said superposed webs in adherent contact with said surface, at least until the resin in contact with said surface is thermoset, and finally removing the sheet material from said surface.

2,640,800
TETRAETHYL PYROPHOSPHATE INSECTICIDE
David L. Shatto, Riverside, Calif., assignor to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware
No Drawing. Application September 6, 1949, Serial No. 114,273
4 Claims. (Cl. 167—22)

1. An insecticidal dust composition comprising tetraethyl pyrophosphate and anhydrous calcium sulfate as a stabilizer therefor.

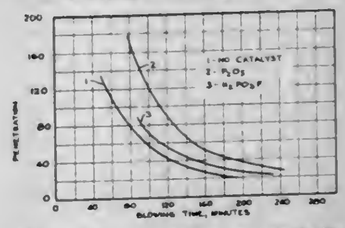
2,640,801
AUREOMYCIN OINTMENT
Robert Lincoln Burkhart, Pearl River, N. Y., and John J. Vance, Park Ridge, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 8, 1950, Serial No. 154,875
1 Claim. (Cl. 167—53.2)

A long nozzle tube containing an ointment, adapted to be injected into a teat canal for the treatment of bovine mastitis, said ointment comprising essentially 0.5 to 15% of aureomycin hydrochloride, 5 to 50% lanolin and the remainder a mixture of petrolatum jelly and liquid petrolatum in such a ratio that said ointment is storage stable, maintains the aureomycin hydrochloride in suspension over a prolonged period, and softens sufficiently to float in the milk in an udder, and release the aureomycin hydrochloride at udder temperature.

2,640,802
CATALYTIC DESULFURIZATION OF PETROLEUM HYDROCARBONS
Frederick William Bertram Porter and Roy Purdy Northcott, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
No Drawing. Application November 7, 1950, Serial No. 194,578. In Great Britain November 16, 1949
2 Claims. (Cl. 196—28)

1. A process for the hydrocatalytic desulphurization of a sulphur-and-naphthene containing cracked petroleum naphtha, which process is self-supporting with respect to the hydrogen needed and is productive of a desulphurized cracked naphtha having, except for lowered sulphur content, properties and boiling range substantially the same as the feedstock, comprising the steps of: passing the sulphur-and-naphthene containing cracked naphtha at a space velocity of from about 0.5 to about 1.0 v./v./hr. to a reaction zone and contacting the cracked naphtha therein with a dehydrogenation-hydrogenation catalyst and with hydrogen derived solely from the cracked naphtha, said catalyst being resistant to sulphur poisoning and combining activity for the dehydrogenation of naphthenes in said cracked naphtha with activity for the hydrogenation of organically combined sulphur in said cracked naphtha to hydrogen sulphide; establishing a temperature in said zone in the range of from between about 780° F. to about 800° F. at which hydrogen is produced continuously from said cracked naphtha; establishing a pressure in said zone in the range of from about 25 to about 75 lbs./sq. in. gauge, the temperature and pressure established within said ranges being correlated to provide, from the dehydrogenation of naphthenes contained in said cracked naphtha, hydrogen in an amount at least equal to but not substantially in excess of that required to effect conversion of said organic sulphur compounds to hydrogen sulphide and to supply the hydrogen requirements in said reaction zone; separating a hydrogen-rich gas mixture from the treated product, recycling said hydrogen-rich gas mixture to said reaction zone at a rate in the range of from about 1000 to about 4000 cu. ft./bbl. at which the necessary partial pressure of hydrogen will be maintained in said zone, said mixture constituting the whole of the hydrogen supplied to said zone; and, recovering the desired cracked naphtha product from the residue of said separating operation.

2,640,803
PROCESS OF TREATING HIGH MOLECULAR WEIGHT HYDROCARBONS
John C. Illman, Albany, and Harry J. Sommer, Lafayette, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application July 30, 1951, Serial No. 239,272
9 Claims. (Cl. 196—74)



6. The method of treating an asphalt which comprises blowing said asphalt in the presence of a minor amount of a fluorinated phosphoric acid with a gaseous stream containing free oxygen while said asphalt is at an elevated temperature of the order of 400° F. to 550° F.

2,640,804
PURIFICATION OF SUBSTITUTED AROMATIC COMPOUNDS
William B. Whitney, Eartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application December 27, 1950, Serial No. 203,035
9 Claims. (Cl. 202—57)

4. A non-catalytic process for the separation of the para-isomer from isomeric mixtures of dialkyl benzenoid hydrocarbons selected from the group consisting of xylenes, diethyl benzenes, cymenes and ethyltoluenes which comprises reacting said isomeric mixture with sulfur monochloride at a temperature in the range 20 to 135° C. for a period of time in the range 20 to 30 minutes and at substantially atmospheric pressure whereby the meta- and ortho-isomers are selectively sulfurized and distilling the substantially unreacted para isomer from the resulting higher boiling disulfides of the meta and ortho isomers.

2,640,805
COMBUSTION CONTROL DEVICE FOR SOLE-FIRED HORIZONTAL COKE OVENS
Charles H. Hughes, Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y., a corporation of New York
Application March 16, 1950, Serial No. 150,052
10 Claims. (Cl. 202—102)



7. In a method of coking carbonaceous material involving sealing in a broad coking oven a charge of carbonaceous material as a flat, horizontal layer having a substantial width greater than its low depth and smaller than its extended length, establishing a plurality of main streams of hot burning fuel in heating flues beneath the charge of carbonaceous material from each end of said oven and extending longitudinally about one-half of the length of said charge from each

side to a central region to form streams of hot waste gases, heating said charge with said main streams to coke the carbonaceous material therein substantially uniformly throughout the same and to distill volatile hydrocarbons therefrom as hot vapors, conducting said main streams towards the central region of the charge, removing said streams of hot waste gases after heating the charge to about the central region thereof and away therefrom in a downward direction substantially perpendicular to the said horizontal layer, merging said downwardly flowing streams of hot gases as a stack stream going to a stack, and continously effecting recuperation of heat between said stack stream and incoming air to produce a stream of preheated air to support the combustion of said hot burning fuel that improvement which comprises positively diverting a selected lower part of said main streams near the said central region to provide hot gases for streams for recirculation, returning said streams for recirculation towards the ends of the oven while transmitting heat thereto from the main streams through a separating wall of silicon carbide, injecting a fluid of the group consisting of combustible gas, steam, hot air, and waste gas through an inspirator to assist in returning said streams for recirculation towards the ends of the oven, and merging said recirculated streams with said main streams to control the combustion of the burning fuel and to lengthen the flames thereof whereby substantially uniform heat is supplied to said charge and overheated ends and underheated centers in said charge are avoided.

2,640,806

PROCESS FOR POLISHING ALUMINUM

Frederick Harold Hesch, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

No Drawing. Application June 27, 1949, Serial No. 101,693

7 Claims. (Cl. 204—140.5)

1. A process for the chemical brightening of aluminum and aluminum alloys which comprises electrically connecting the work to a noble metal electrode, and subjecting the work to the action of an aqueous acid solution consisting essentially of hydrogen, nitrate and fluoride ions in concentration corresponding to that produced by a solution containing from about .5 to 6% nitric acid, and about .01 to 0.5% hydrofluoric acid by weight, and maintaining the solution at a temperature of from about 100° F. to the boiling point.

2,640,807

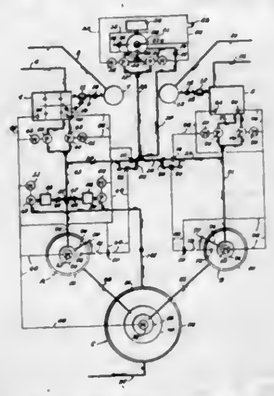
METHOD OF WASTE DISPOSAL

Cyrus W. Rice, Pittsburgh, Pa.

Application March 10, 1949, Serial No. 80,727

4 Claims. (Cl. 210—2)

1. The method of treating two waste waters from industrial operations which waters respectively contain in solution diverse toxic substances, the said dissolved substance in one said water exceeding that of the other water in toxicity, the reactions for rendering which toxic substances harmless involving at least one common reagent, by flowing the said solutions from volumes of supply thereof to reaction chambers therefor, throughout the flow of said solutions supplying to each thereof reactive material containing the common reagent capable of rendering the toxic substance of the said solution harmless by reaction therewith, the amount of reaction material added being sufficient to supply a substantial excess of said common reagent to the solution containing the toxic substance of greater toxicity, flowing effluent containing excess of the said common reagent from the reaction chamber for the solution having a toxic con-



tent of greater toxicity into the reaction chamber for the solution having the toxic content of lesser toxicity, and following reaction in said last named reaction chamber settling the mixed reacted solutions and the solid products of reaction therein and drawing off effluent therefrom.

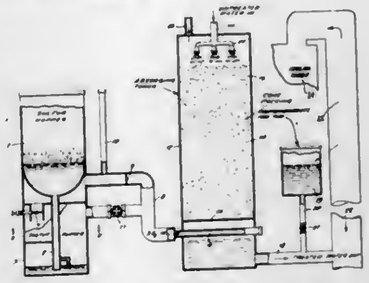
2,640,808

METHOD OF AND MATERIAL FOR TREATING WATER

Richard C. Ulmer, Tuckahoe, N. Y., assignor to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware

Application July 5, 1947, Serial No. 759,259

7 Claims. (Cl. 210—16)



1. A method of treating cooling tower waters which comprises burning sulfur with air to form gaseous SO_2, passing the same upwardly through a tower countercurrent to water to be treated so as to dissolve said SO_2 in said water, adding to said solution a solution of alkali metal polyphosphate-mannuronate, and conducting said mixed solution to a cooling tower, the amount of SO_2 being sufficient to reduce the alkalinity of the water to about 10–100 parts per million and the amount of polyphosphate-mannuronate being from 8 to 16 pounds per million pounds of water, said SO_2 being in part combined with said polyphosphate-mannuronate, said SO_2 in the free and combined states combining with free oxygen in the water to reduce the corrosive effect thereof, the alkalinity of the solution provided by said polyphosphate-mannuronate promoting the action of said SO_2, and said polyphosphate-mannuronate reducing the formation of scale.

2,640,809

PREVENTION OF CORROSION

John Walter Nelson, Lansing, Ill., assignor, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla., a corporation of Maine

No Drawing. Application December 19, 1950, Serial No. 201,691

2 Claims. (Cl. 252—8.55)

1. In the production of oil from wells, the step of introducing into the well fluid 0.2 to 2.0 pints, calculated on the oil free basis, per 1000 barrels of well fluid, of a mixture of high molecular weight wax acids produced by substantially complete oxidation of microcrystalline wax containing 34–55 carbon atoms per molecule, which mixture is characterized by extreme water insolubility and by a saponification number less than about 200, and which mixture predominates in monocarboxylic acids having an apparent chain length exceeding 18 carbon atoms per molecule.

2,640,810

TREATMENT OF WELLS

Paul H. Cardwell and Charles L. Lunsford, Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 14, 1950, Serial No. 184,899

5 Claims. (Cl. 252—8.55)

1. In acidizing with aqueous hydrochloric acid a calcareous formation containing a silicate capable of swelling as the acid becomes spent on attacking the calcareous matter, the improved acidizing method which consists in including in the acid solution a buffering agent selected from the group consisting of formic acid and its salts.

2,640,811

DEMULSIFIABLE LUBRICANT COMPOSITIONS

Helen Sellei Beretvas, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 26, 1951, Serial No. 217,680

8 Claims. (Cl. 252—33.3)

1. A lubricant composition resistant to the formation of stable emulsions with water comprising essentially a major proportion of a hydrocarbon lubricating oil and the following constituents in the following approximate weight percentages:

	Per cent
Oil-soluble lead soap	3 to 20
Organic sulfur-containing E. P. agent	3 to 20
High molecular weight fatty acid of at least 12 carbon atoms	0 to 10
Asphalt	1 to 25
Solvent extract of hydrocarbon oil	0 to 25
Oil-soluble alkaline earth sulfonate	0.25 to 3
Sulfated castor oil	0.25 to 2

said organic sulfur-containing E. P. agent being selected from the group consisting of a sulfurized fat, a sulfurized fatty acid, a sulfurized ester, a sulfurized vegetable oil and a sulfurized olefin, and said solvent extract of hydrocarbon oil containing compounds selected from the group consisting of aromatic compounds, polynuclear naphthenic compounds, and mixtures thereof.

2,640,812

GREASE

William C. Bryant, Garfield, N. J., assignor to Swan-Finch Oil Corporation, New York, N. Y., a corporation of New York

No Drawing. Application March 8, 1951, Serial No. 214,651

12 Claims. (Cl. 252—33.6)

1. A lubricating composition of a petroleum lubricant, a montmorillonite modified by an organic cation, and a long-chain organic salt gelator which contains a straight chain of at least 8 carbon atoms and whose salt-forming metal is selected from the group consisting of lithium, sodium, calcium, barium, and strontium, said organic salt having the characteristic of improving the lubricity and inhibiting the rust-producing properties of the modified montmorillonite, the proportions of modified montmorillonite to said organic salt gelator ranging from 19–78% of said modified montmorillonite to 81–22% of said organic salt gelator.

2,640,813

REACTION PRODUCT OF A MIXED FERRITE AND LEAD TITANATE

Godshalk Berge, Chicago, Ill., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois

Application June 26, 1948, Serial No. 35,444

14 Claims. (Cl. 252—62.5)

1. A magnetic core formed of the thermal reaction product of lead metatitanate with the thermal reaction product of iron oxide calculated as Fe_2O_3, zinc oxide calculated as ZnO and the oxide of a metal selected from the group consisting of magnesium, manganese, nickel and cobalt and mixtures thereof calculated as MgO, MnO, Ni_2O_3 and Co_2O_3 respectively.

2,640,814

TALL OIL-POLYAMINO-ALDEHYDE REACTION PRODUCT

Alfred F. Schmutzler, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 12, 1951, Serial No. 231,249

19 Claims. (Cl. 260—21)

1. A process for the preparation of a hydrocarbon solvent soluble resinous material comprising heat-reacting talloil with an aldehyde-reactable resin forming polyamino compound, adding an aldehyde and heat-reacting the mixture to form a resinous material.

2,640,815

RESINOUS PRODUCTS FROM DIHYDROPYRAN DERIVATIVES AND METHOD FOR PRODUCING THE SAME

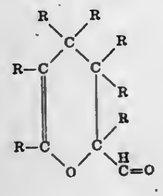
Richard R. Whetstone, Berkeley, and Seaver A. Ballard, Orinda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application September 11, 1948, Serial No. 48,922

16 Claims. (Cl. 260—23)

11. A resinous reaction product obtained by a

process consisting of heating a dihydropyran carboxaldehyde of the formula



wherein R is a member of the group consisting of hydrogen, halogen and alkyl radicals containing from 1 to 5 carbon atoms, with an organic hydroxy-containing compound of the group consisting of polyhydroxy-substituted aliphatic hydrocarbons, polyhydroxy-substituted aromatic hydrocarbons, hydrocarbon carboxylic acid partial esters of polyhydroxy-substituted aliphatic hydrocarbons, hydrocarbon carboxylic acid partial esters of polyhydroxy-substituted aromatic hydrocarbons, hydrocarbon partial ethers of polyhydroxy-substituted aliphatic hydrocarbons and hydrocarbon carboxylic acid partial esters of the aforementioned partial ethers, hydrocarbon partial ethers of polyhydroxy-substituted aromatic hydrocarbons and hydrocarbon carboxylic acid partial esters of the latter described partial ethers, in an equivalent ratio of 1:5 to 5:1 in the presence of an acid catalyst until a resinous product is obtained and subsequently recovering the resinous product.

2,640,816

PREPARATION OF SOLUTIONS OF POLYVINYL ALCOHOL-ACETATE

Leo M. Germain, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application May 3, 1952, Serial No. 286,015

2 Claims. (Cl. 260—29.6)

1. A process for the preparation of a solution of polyvinyl alcohol-acetate resin, said resin containing at least 45% by weight of polyvinyl acetate comprising the reaction, in solution, of polyvinyl acetate with methanol in the presence of excess methanol, an alkaline alcoholysis catalyst not exceeding 15% of the stoichiometric equivalent of the original polyvinyl acetate, and water in an amount between 12% and 20% by weight of all the methanol and water.

2,640,817

ANTISTATIC COATING FOR PLASTICS

Eleanor G. Sheridan, Chicago, Ill., Luther L. Yaeger, Hammond, Ind., and Johan Bjorksten, Chicago, Ill., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

No Drawing. Application July 26, 1948, Serial No. 40,798

6 Claims. (Cl. 260—32.6)

1. An anti-static coating composition comprising in combination: 30 to 50% of solid resinous polychloro biphenyl, 60 to 70% of the weight of said polychloro biphenyl being attached chlorine; 70 to 50% of a polymer selected from the class consisting of polymers of esters of methacrylic acid formed from alcohols containing one to three carbon atoms; and from about ¼% to about 40% of diethanol amide of lauric acid.

2,640,818

THIENYL-SUBSTITUTED POLYSILOXANES

Philip A. Di Giorgio, Schenectady, N. Y., now by change of name Philip D. George, assignor to General Electric Company, a corporation of New York

No Drawing. Application June 25, 1949, Serial No. 101,485

4 Claims. (Cl. 260—46.5)

1. A composition of matter comprising an organo polysiloxane in which the organic groups are all attached to the silicon atoms of the polysiloxane by carbon-silicon linkages and the organic groups consist of thienyl radicals and a monovalent hydrocarbon radical selected from the class consisting of methyl and phenyl radicals.

2,640,819

PROCESS FOR POLYMERIZING STYRENE AND MALEIC COMPOUNDS

Gerald R. Barrett, Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 29, 1950, Serial No. 159,137

10 Claims. (Cl. 260—78.5)

1. A process of mass polymerizing styrene and maleic compounds which comprises subjecting a mixture of styrene and a maleic compound selected from the group consisting of maleic anhydride, alkyl half esters of maleic acid and mixtures of said anhydride and said esters to free radical inducing conditions in the presence of from about 0.01 to 2% by weight, based on the monomers in the mixture, of 2,5 ditertiary butyl parabenzoquinone until the resulting mass is substantially free of unreacted styrene and maleic compound, said styrene and maleic compound being present in said mixture in a mol ratio between 1:1 and 1.5:1.

2,640,820

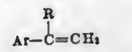
PRODUCTION OF WATER-SOLUBLE RESIN SULPHONATES

Arthur S. Teot and Glenn C. Wiggins, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 11, 1951, Serial No. 231,050

9 Claims. (Cl. 260—79.3)

1. A method for making a water-soluble sulphonate of an alkenyl aromatic resin, said resin being a benzene-soluble polymer containing in chemically combined form at least 50 per cent by weight of at least one alkenyl aromatic compound having the general formula:



wherein Ar represents a monovalent aromatic radical and R represents a member of the group consisting of hydrogen and the methyl radical, which method comprises admixing from 0.8 to 3 molecular equivalents of sulphur trioxide with a solution of one equivalent weight of the resin in a liquid perchlorinated hydrocarbon to form a mixture containing the liquid perchlorinated hydrocarbon in amount corresponding to at least 9 times the combined weight of the sulphur trioxide and resin starting materials while at the same time maintaining the mixture at reaction temperatures between —20° and 45° C.

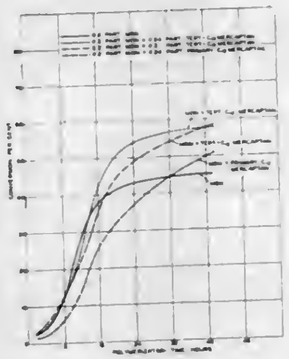
2,640,821

POLYMERIZATION PROCESS

James E. Pritchard, Lafayette, Ind., and Charles Frederick Fryling, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application December 16, 1946, Serial No. 716,640

2 Claims. (Cl. 260—84.3)



1. In a process for producing synthetic rubber by polymerization in an aqueous emulsion of a monomeric material comprising a major amount of 1,3-butadiene and a minor amount of styrene, the improvement which comprises effecting said polymerization at a temperature between —10 and 60° C. in the presence of 0.2 to 0.4 part of p-methoxyphenyl diazothio-(2-naphthyl)-ether and of 0.24 to 0.3 part of a tertiary alkyl mercaptan having 12 to 16 carbon atoms per molecule, said parts being parts by weight per 100 parts by weight of said monomeric material, said diazo thioether and said mercaptan being the sole activators and modifiers present.

2,640,822

ACYLATED COMPLEX OXYGEN-CONTAINING POLYAMINES

Denham Harman, Berkeley, and Harry J. Sommer, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 22, 1949, Serial No. 111,758

8 Claims. (Cl. 260—97.5)

4. As a new composition of matter, an N-acyl-substituted polymeric oxygen-containing polyamino material, which polymeric oxygen-containing polyamino material is produced by condensing acrolein with an amino compound selected from the group consisting of ammonia and the primary amines, said amino compound being present in excess and in an amount corresponding to from about 2 up to about 100 moles per mole of acrolein, and catalytically hydrogenating the products of the condensation, said polymeric oxygen-containing polyamino materials containing from about 2% to about 20% of oxygen on a weight basis and having an equivalent weight from about ½ to about 1/15 the molecular weight, which N-acyl-substituted polymeric oxygen-containing polyamino material is formed by heating at a temperature above 200° C. said polymeric oxygen-containing polyamino material with a carboxylic acid having a molecular weight greater than about 140 and removing from the reaction mixture the water formed by the reaction of the carboxyl groups of the carboxylic acid with the said polymeric oxygen-containing polyamino material.

2,640,823

TREATMENT OF TALL OIL

Stewart W. Gloyer and Henry A. Vogel, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application June 4, 1946, Serial No. 674,385

17 Claims. (Cl. 260—97.6)

1. A process of recovering unsaponifiable matter of tall oil from tall oil, which process comprises selectively esterifying the free fatty acids in tall oil with a lower alcohol, extracting the resultant mixture of esterified fatty acids, rosin acids and unsaponifiable matter with a selective polar solvent to obtain an extract of rosin acids and a raffinate containing most of the esters of fatty acids and most of the unsaponifiable matter of the tall oil and a minor amount of rosin acids, then distilling the raffinate to obtain the esters of fatty acids in purified form and to obtain a pitch-like still residue of residual esters of fatty acids, rosin acids and a high concentration of unsaponifiable matter, saponifying said acids and esters with an aqueous alcohol solution of an alkaline compound of an alkali metal to obtain solutions of soaps of tall oil and unsaponifiable matter in water and alcohol, extracting out the unsaponifiable matter from said solution with a solvent therefor which is immiscible in water and alcohol, eliminating the solvent from the unsaponifiable matter and crystallizing out the sterols in the unsaponifiable matter in a monohydric alcohol containing 1 to 3 carbon atoms in a straight chain hydrocarbon nucleus.

2,640,824

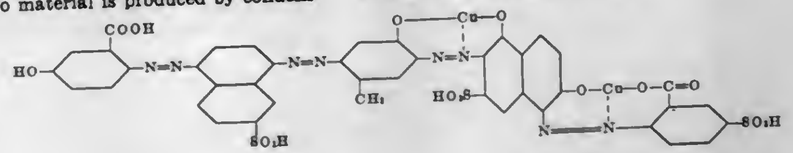
POLYAZO DYESTUFFS

Hans Ischer, Ernst Iselin, and Walter Wehrli, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application February 4, 1952, Serial No. 269,897. In Switzerland February 14, 1951

9 Claims. (Cl. 260—145)

5. The dyestuff of the formula



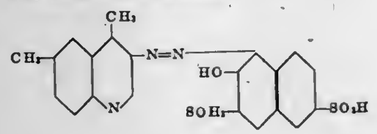
2,640,825

AZO DERIVATIVES OF CARBOSTYRIL

Joseph Scruto, Meriden, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 17, 1949, Serial No. 99,863
13 Claims. (Cl. 260—155)

8. A dyestuff of the formula



2,640,826

PRODUCTION OF HEXAMINE

Alexander F. MacLean, Robstown, and Adin Lee Stautzenberger, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application November 8, 1949, Serial No. 126,244
3 Claims. (Cl. 260—248.6)

1. Process for the production of hexamine, which comprises continuously introducing a mixture of formaldehyde and ammonia into a reaction zone, reacting the mixture formed for 5 to 30 minutes at a temperature of 20 to 70° C. and at a pH of 7 to 8, continuously withdrawing the aqueous solution of hexamine formed from the reaction zone, concentrating the hexamine solution to precipitate hexamine continuously therefrom and separating the precipitated hexamine from the slurry thus formed.

2,640,827

VITAMIN B_1 GENTISATE

Benjamin Pecherer, Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 21, 1949, Serial No. 94,733
1 Claim. (Cl. 260—256.6)

4 - methyl - 5 - (β - hydroxy - ethyl) - N-{[2 - methyl - 4 - amino - pyrimidyl - (5)]-methyl}-thiazolium-gentisate-gentisate.

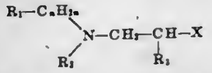
2,640,828

N,N-DISUBSTITUTED β-HALOETHYLAMINES

Kenneth N. Campbell, South Bend, Ind., and Glenn E. Ulyot, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application April 13, 1949, Serial No. 87,362
6 Claims. (Cl. 260—286)

1. A compound of the class consisting of a free base and its acid addition salts, said free base having the formula:



in which R_1 is a heterocyclic radical selected from the group consisting of unsubstituted quinolyl, furyl, imidazolyl, benzimidazolyl, thiazolyl, and methyl substituted quinolyl, furyl, imidazolyl, benzimidazolyl, and thiazolyl; R_2 is selected from the group consisting of benzyl, methyl benzyl, methoxy benzyl, and halo benzyl radicals; R_3 is selected from the group consisting of hydrogen and methyl radicals; n is an integer not greater than three and not less than one; and X is selected from the group consisting of chlorine and bromine.

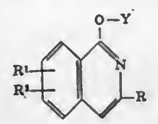
2,640,829

ISOQUINOLYL HETEROCYCLIC ETHERS

James W. Wilson III and Glenn E. Ulyot, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application November 10, 1950, Serial No. 195,122
6 Claims. (Cl. 260—286)

1. Chemical compounds selected from the class consisting of the free base and its acid addition salts, the free base having the formula:



in which Y is a heterocyclic radical selected from the group consisting of tropyl, piperidyl, piperidyl substituted by an alkyl radical having not in excess of 4 carbon atoms, and piperidyl substituted by a benzyl radical; R is selected from the group consisting of hydrogen, lower alkyl and benzyl radicals; and R^1 and R^2 are selected from the group consisting of hydrogen, alkyl having not in excess of 4 carbon atoms, alkoxy having not in excess of 4 carbons atoms, amino, alkylamino having not in excess of 4 carbon atoms, and acylamino radicals having not in excess of 4 carbon atoms.

2,640,830

5-HYDROXY-4:7-PHENANTHROLINES AND THE PREPARATION THEREOF

Jean Druey, Riehen, and Paul Schmidt, Therwil, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application April 17, 1950, Serial No. 156,492. In Switzerland April 29, 1949
3 Claims. (Cl. 260—288)

1. A member selected from the group consisting of 5-hydroxy-4:7-phenonthroline, 4:7-phenanthroline having in 5-position a lower alkoxy group, 4:7-phenanthroline having in 5-position a phenoxy group, and the acid salts of the said compounds.

2,640,831

REACTION OF CARBON MONOXIDE AND HYDRAZINE

Gerard Dunstan Buckley and Neil Hunter Ray, Northwich, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application February 7, 1949, Serial No. 75,084. In Great Britain February 18, 1948
7 Claims. (Cl. 260—308)

1. The process for the formation of organic nitrogen compounds containing the group >N—C—NH— which comprises reacting hydrazine with carbon monoxide at a pressure between 100 and 5000 atmospheres and a temperature between 30° and 200° C.

2,640,832

N-(HALOMETHYL)-MALEIMIDE AND PROCESS FOR PREPARING THE SAME

Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 29, 1952, Serial No. 290,827
3 Claims. (Cl. 260—326.5)

1. A process which comprises reacting N-methylolmaleimide with a member of the group consisting of phosphorus trichloride, thionyl chloride, and phosphorus tribromide, and subsequently recovering a N-(halomethyl)maleimide.

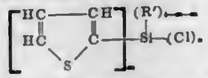
2,640,833

ORGANOSILICON COMPOSITION

Philip A. Di Giorgio, Schenectady, N. Y., now by change of name Philip D. George, assignor to General Electric Company, a corporation of New York

No Drawing. Application June 25, 1949, Serial No. 101,484
4 Claims. (Cl. 260—329)

1. A hydrolyzable organosilane corresponding to the general formula



where R' is a monovalent hydrocarbon radical selected from the class consisting of methyl, ethyl, and phenyl radicals, and m and n are each integers equal to from 1 to 2, inclusive, the sum of m and n being equal to, at most, 3.

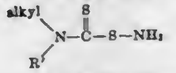
2,640,834

DITHIOCARBAMATES AND DERIVATIVES THEREOF

Lyndon B. Tewksbury, Jr., Potsdam, N. Y., and Sylvia S. Heikkila, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 18, 1947, Serial No. 742,448
1 Claim. (Cl. 260—332.1)

A sulfenamide of the formula



where R' is an unsubstituted sulfolanyl-3 group.

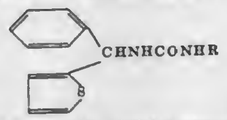
2,640,835

α-(2-THIENYL)BENZYLUREAS AND METHODS FOR PRODUCING THE SAME

Robert Duschinsky, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 27, 1950, Serial No. 158,599
12 Claims. (Cl. 260—332.2)

1. A compound of the following formula:



wherein R is a member of the group consisting of hydrogen, lower alkyl, and lower aliphatic carboxylic acyl radicals.

2,640,836

PROCESS FOR PRODUCING PECHMANN DYE

Werner Bergmann, New Haven, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 16, 1951, Serial No. 251,619. In Canada April 5, 1951
14 Claims. (Cl. 260—343.6)

1. A process of preparing the "Pechmann dye" which comprises heating a substance selected from the class consisting of para-substituted and unsubstituted beta-benzoylacrylic acids and beta-benzoyllactic acids in a reaction medium comprising a lower aliphatic acid anhydride in the presence of a condensing agent comprising a cupriferous substance and a boric acid compound.

2,640,837

PROCESS FOR THE PREPARATION OF PECHMANN DYE

James Chen-Shang Fang, Sharon Hill, Pa., and Werner Bergmann, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 30, 1951, Serial No. 253,974. In Canada August 24, 1951
15 Claims. (Cl. 260—343.6)

1. A process of preparing the "Pechmann Dye" which comprises heating a substance selected from the class consisting of para-substituted and unsubstituted beta-benzoylacrylic acids and beta-benzoyllactic acids in a reaction mixture comprising a lower aliphatic acid anhydride in the presence of a condensing agent consisting of a mixture of cupriferous substance and an ammonium salt of a mineral acid.

2,640,838

$\Delta^{9(11)}$-PREGNENES AND PROCESS

Norman L. Wendler, Summit, Robert P. Graber, Elizabeth, and Alfred C. Haven, Jr., Linden, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application May 22, 1952, Serial No. 289,441
13 Claims. (Cl. 260—397.4)

1. 4-bromo-$\Delta^{9(11)}$-pregnene-17(a),21-diol-3,20-dione-21-acylate.

2,640,839

$\Delta^{9(11)}$-PREGNENES AND PROCESS

Norman L. Wendler, Summit, and Robert P. Graber, Elizabeth, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application May 22, 1952, Serial No. 289,442
18 Claims. (Cl. 260—397.4)

1. $\Delta^{9(11),17}$ - 20 - cyanopregnadiene - 21 - ol-3 - one - acylate.

2,640,840

MANUFACTURE OF ODORLESS SOAP FROM LOW GRADE OILS AND FATS

Klaus Appuhn, Vina Del Mar, Chile, assignor to Compañía Industrial, Valparaiso, Chile, a corporation of Chile

No Drawing. Application March 21, 1950, Serial No. 151,030
4 Claims. (Cl. 260—417)

1. A process for the manufacture of odorless soap of good quality which is solid at room temperature, from malodorous unsaturated fatty acids obtained from low grade animal and vegetable fats and oils, said process comprising reacting malodorous unsaturated fatty acids with

molten alkali in the absence of water at substantially atmospheric pressure and in the presence of a reaction moderator capable of reducing the violence of the reaction and the formation of foam, said reaction moderator constituting one of the reactants and being selected from the group consisting of sperm oil and wool grease said reaction moderator constituting at least 40% of the mixture of fatty acids and moderator, the quantity of alkali used being sufficient to completely convert the unsaturated fatty acids and the moderator into an odorless soap having a soap base with a higher degree of carbon atom saturation and a lower molecular weight than the organic reactants.

2,640,841

REFINING AND BLEACHING OF SUGAR CANE WAX

Harold Herbert Hatt, Kew, Victoria, Peter Hermann Alois Strasser, Balwyn, Victoria, and William John Troyahn, Gardiner, Victoria, Australia, assignors to Commonwealth Scientific and Industrial Research Organization, East Melbourne, Victoria, Australia, a body corporate

No Drawing. Application April 17, 1951, Serial No. 221,524. In Australia February 7, 1950

6 Claims. (Cl. 260—423)

1. A method of refining sugar cane wax, comprising the distilling of undesirable components from the crude wax under a pressure not greater than about 6 millimetres of mercury in an inert atmosphere and at a temperature which rises above 250° C. and does not exceed 325° C. and which is maintained within that range until the desired proportion of distillate has passed off.

4. A method of refining sugar cane wax as claimed in claim 1, and in which the wax which remains as the residue is bleached by chromic acid in sulphuric acid solution.

2,640,842

METAL-AUREOMYCIN COMPLEXES

Joseph F. Weidenheimer and Charles C. Reed, Pearl River, Lawrence Ritter, Spring Valley, and Sidney D. Upham, Pearl River, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 10, 1949, Serial No. 109,616

12 Claims. (Cl. 260—439)

1. A method of preparing an aureomycin-metallic halide complex which comprises reacting aureomycin in a solvent selected from the group consisting of aliphatic alcohols and ketones and water, said water being at a pH below 6, with a metallic halide selected from the group consisting of the halides of aluminum, cobalt, and magnesium, in the presence of at least sufficient base to neutralize any acid associated with the aureomycin, removing the solvent, and recovering the thus formed aureomycin-metallic halide complex.

11. An aureomycin cobalt chloride complex.

2,640,843

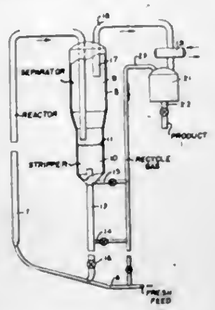
SYNTHESIS OF ORGANIC COMPOUNDS

Luther R. Hill, Ridgewood, and Henry G. McGrath, Elizabeth, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application June 15, 1948, Serial No. 33,078

4 Claims. (Cl. 260—449.6)

1. A process for the hydrogenation of carbon monoxide to produce organic compounds having more than one carbon atom per molecule which comprises passing a finely divided hydrogenating catalyst comprising iron and an alkali as a promoter and a gaseous mixture comprising hydrogen and carbon monoxide through a first confined passageway to the lower portion of an elongated reaction zone having a shape factor of at least 10, passing gases upward through said elongated reaction zone at a linear gas velocity of at least about 5 feet per second to suspend said catalyst in the gases such that the concentration of catalyst in said gases is not greater than about 35 pounds per cubic foot and such that finely divided catalyst moves in the direction of flow of gases in said elongated reaction zone, converting carbon monoxide to organic compounds in said reaction zone, removing from the upper portion of said elongated reaction zone a gaseous effluent containing finely divided cata-



lyst, passing said gaseous effluent to a separation zone externally of said reaction zone in which catalyst is separated from gases, recovering organic compounds having more than one carbon atom per molecule from the gaseous effluent as products of the process, withdrawing catalyst from said external separation zone, passing catalyst thus withdrawn directly downwardly through a second confined passageway situated externally of said reaction zone and said separation zone, removing from said catalyst in said second confined passageway occluded carbonaceous deposits formed thereon during the hydrogenation reaction, passing catalyst through said second confined passageway directly to said first confined passageway whereby the catalyst is returned to said reaction zone, circulating the catalyst through the aforesaid circuit at a rate at least equivalent to that defined by the following formula:

$$Cr=\frac{50}{\frac{L}{D}+5}+0.4$$

where Cr is equal to the pounds of recycled iron per standard cubic foot of carbon monoxide introduced into said reaction zone, L is equal to the vertical length of the reaction passageway, and D is equal to the average diameter of the reaction passageway; maintaining the aforesaid circuit at a temperature between about 550° F. and about 650° F. and at a pressure between about 50 and about 500 pounds per square inch gage at substantially all times, and cooling said reaction zone by indirect heat exchange to maintain the temperature within the above range.

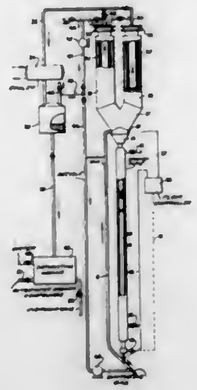
2,640,844

HIGH VELOCITY PROCESS FOR SYNTHESIS OF ORGANIC COMPOUNDS

Henry G. McGrath, Elizabeth, and Luther R. Hill, Ridgewood, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application February 5, 1947, Serial No. 726,620

9 Claims. (Cl. 260—449.6)



1. A process for the hydrogenation of an oxide of carbon to produce organic compounds having more than one carbon atom per molecule which comprises introducing a finely-divided metal hydrogenating catalyst comprising iron and a gaseous mixture comprising hydrogen and an oxide of carbon into the lower portion of an elongated reaction zone, passing gases upward through said elongated reaction zone at a linear velocity of at least about 5 feet per second to suspend said catalyst in the gases such that the concentration of catalyst in gases is smaller than the concentration of the same catalyst when utilized under operating conditions to obtain a dense phase catalyst bed and such that finely-divided metal catalyst moves in the direction of flow of the gases through said elongated reaction zone, maintaining suitable conditions of temperature, pressure and residence time for the conversion of a major proportion of said oxide of carbon in said elongated reaction zone, maintaining the temperature of said reaction zone at at least 550° F. and within a relatively narrow range of not greater than 100° F. by indirect heat exchange with a cooling medium which is at a temperature substantially lower than the temperature of reaction, passing from the upper portion of said elongated reaction zone a gaseous effluent containing finely-divided metal hydrogenating catalyst through a confined passageway to a separation zone in which finely-divided catalyst is separated from gases, maintaining the pressure drop in the confined passageway between said reaction zone and said separation zone not greater than about 80 inches of water, recovering from said effluent organic compounds having more than one carbon atom per molecule as products of the process, withdrawing catalyst from said separation zone, and passing catalyst thus separated to the lower portion of said elongated reaction zone at a temperature within about 20° F. of the reaction temperature through a confined passageway.

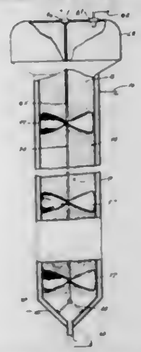
2,640,845

HYDROCARBON SYNTHESIS

Roland A. Beck, Fishkill, and Eugene E. Sensel, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application May 1, 1947, Serial No. 745,358

6 Claims. (Cl. 260—449.6)



4. In the catalytic hydrogenation of carbon monoxide into desired products comprising hydrocarbons and the like by the upward passage of the gaseous reactants comprising essentially H_2 and CO through an upstanding reaction zone containing a solid particle mass of powdered hydrocarbon synthesis catalyst maintained at reaction temperature, at a linear rate effective to support the solid particles of catalyst as a dense fluid phase of substantial vertical height within the reaction zone such that contact between the reactants and the fluidized catalyst is sufficient to effect substantial conversion into said desired products of reaction, the improvement which comprises maintaining substantially uniform distribution of the solid catalyst particles throughout the reaction zone by causing the upflowing stream of reactant gas, at a plurality of vertically spaced points within the dense fluid phase of catalyst, to contact fixed, stationary helical surfaces developed about an upstanding axis and positively mounted against rotation to impart substantial rotational movement to the stream of reactant gas about said axis without imparting upward velocity to the gas flow, conducting the reactant gas stream emerging from contact with each of said helical surfaces upwardly through a substantial vertical column of fluidized catalyst in the space between said vertically spaced helical surfaces under conditions permitting substantially free vertical flow and withdrawing the products of reaction from the upper surface of the fluid phase.

2,640,846

PROCESS FOR PREPARING ORGANIC ISOCYANATES

Melvin D. Hurwitz, Philadelphia, and Robert W. Auten, Jenkintown, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application June 30, 1950, Serial No. 171,557

5 Claims. (Cl. 260—453)

2. A process for preparing alkyl isocyanates having the formula R—NCO which comprises dehydrochlorinating in the presence of an organic base which is free of primary and second-

ary amino groups a substituted N-chloroformamide having the general formula

HCON—R
Cl

the character R representing in both formulas the same alkyl group.

2,640,847
PRODUCTION OF NEUTRAL ESTERS OF THIOLPHOSPHORIC ACID
Gerhard Schrader, Opladen-Bruchhausen, Germany, assignor to Farbenfabriken Bayer, Leverkusen, Germany, a manufacturing and trading organization of Germany
No Drawing. Application May 21, 1949, Serial No. 94,721. In Germany May 7, 1949
3 Claims. (Cl. 260—461)

1. A process for the production of neutral esters of thiolphosphoric acid, which comprises slightly heating a mixture of an alkali salt of a dialkyl phosphite with a compound of the group consisting of alkyl thiocyanates, substituted alkyl thiocyanates and alkylene dithiocyanates.

2,640,848
ESTERS OF SULFUR-CONTAINING POLYCARBOXYLIC ACIDS
Denham Harman, Berkeley, and De Loss E. Winkler, Orinda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 15, 1949, Serial No. 121,637
11 Claims. (Cl. 260—481)

1. Di(2-ethylhexyl) beta,beta'-sulfonyldibutyrate.

2,640,849
RECOVERY OF ACONITIC ACID FROM MOLASSES
Robert Winston Liggett, Whitemarsh Village, Wyndmoor, and Ernest L. Wimmer, Springfield, Pa., assignors to The American Sugar Refining Company, New York, N. Y., a corporation of New Jersey
Application August 12, 1950, Serial No. 179,062
5 Claims. (Cl. 260—527)

1. The method of recovering aconitic acid from blackstrap and other molasses which comprises passing diluted molasses containing aconitates both in solution and in suspension therein through a series of bodies of a weakly basic anion exchange resin, which resin has been converted to the salt form by treatment with a mineral acid, with a rate of flow of the diluted molasses through the resin bodies which will effect substantially complete removal of the aconitic acid of the aconitates in solution and in suspension from the molasses, with release of the mineral acid of the resin salt and formation of a resin aconitate, and with adsorption of coloring matter from the molasses by the resin, removing each of said bodies from the series after it has been converted to resin aconitate, washing such bodies to remove molasses therefrom, and eluting the coloring matter and aconitic acid from such bodies by treatment with a dilute solution of a mineral acid passed through the resin body at a slow rate to allow the resin and eluting solution to approach equilibrium conditions, whereby an eluate fraction is first obtained containing most of the coloring matter, followed by an eluate fraction rich in aconitic acid and a later fraction poor in aconitic acid and rich in mineral acid.

2,640,850
RECOVERY OF ACONITIC ACID FROM MOLASSES
Robert Winston Liggett, Whitemarsh Village, Wyndmoor, and Ernest L. Wimmer, Springfield, Pa., assignors to The American Sugar Refining Company, New York, N. Y., a corporation of New Jersey
Application August 12, 1950, Serial No. 179,061
8 Claims. (Cl. 260—527)

1. The process of treating molasses which comprises diluting and treating the same to precipitate part of the aconitic acid content thereof in the form of insoluble alkaline earth aconitates, passing the resulting aconitate-containing molasses in contact with an anion exchange resin, which resin has been converted to the salt form by treatment with a mineral acid, to separate the remainder of the aconitic acid therefrom as resin aconitate and to produce a substantially aconitic acid-free molasses, eluting the aconitic acid from the resin with dilute sulfuric acid to form an effluent containing sulfuric acid and aconitic acid, utilizing at least part of said effluent to treat the precipitated aconitates to remove calcium from the aconitates and sulfuric acid from the effluent in the form of calcium sulfate and to form a solution containing aconitic acid from both said effluent and said treatment of the aconitates, admixing with said solution any effluent which has not been utilized for said treatment of the aconitates, and concentrating the combined solutions to crystallize aconitic acid therefrom, whereby the sulfuric acid used first for the elution of the aconitic acid is used at least in part for treating the precipitated aconitates and whereby aconitic acid is recovered from both the precipitated aconitate and from the anion exchange treatment by the same crystallizing operation.

2,640,851
RECOVERY OF CALCIUM MAGNESIUM ACONITATE FROM MOLASSES
Robert E. Miller, East Lansdowne, Pa., assignor to The American Sugar Refining Company, New York, N. Y., a corporation of New Jersey
Application August 12, 1950, Serial No. 179,065
4 Claims. (Cl. 260—527)

1. The process of treating molasses with a high equivalent ratio of aconitic acid to calcium which comprises treating the molasses at a dilution of around 50° Brix by adding lime to give a pH of around 7.0, adding calcium chloride to give a total equivalent ratio of calcium to aconitic acid in the molasses in excess of 1 to 1, adding a small amount of freshly precipitated seed crystals of calcium magnesium aconitate produced by the process to the molasses, heating the molasses at a temperature around 90° C. for a period of 1 to 2 hours to precipitate alkaline earth aconitates therefrom, and separating the precipitated aconitates from the molasses.

2,640,852
PROCESS FOR THE RECOVERY OF ACONITIC ACID FROM ITS ALKALINE EARTH SALTS
Sidney M. Cantor, Overbrook Hills, Pa., assignor to The American Sugar Refining Company, New York, N. Y., a corporation of New Jersey
Application August 12, 1950, Serial No. 179,052
11 Claims. (Cl. 260—537)

1. A process of recovering aconitic acid from calcium magnesium aconitates containing alkaline earth salts of color acids which comprises treating the aconitates at a temperature not exceeding about 30° C. with dilute sulfuric acid in amount sufficient to convert the calcium of the aconitates into calicum sulfate but not materially in excess of that equivalent to the aconitic acid content of the aconitates, separating the resulting solution from the precipitate formed, passing the solution through a cation exchange resin to remove practically all of the magnesium therefrom and concentrating the resulting solution to crystallize aconitic acid therefrom.

2,640,853
PRODUCTION OF ORGANIC SULFONYL HYDRAZIDES
Norman K. Sundholm, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 10, 1951, Serial No. 236,093
3 Claims. (Cl. 260—556)

1. In a method of forming an organic sulfonyl hydrazide from hydrazine and an organic sulfonyl chloride whose sole reactive grouping is the sulfonyl chloride group, the improvement which consists in the step of carrying out the reaction in aqueous suspension in the presence of ammonia in amount sufficient to neutralize the hydrochloric acid which is formed during the reaction.

2,640,854
PROCESS FOR THE PRODUCTION OF AN AROMATIC AMINO HYDROXY ACID
Leonard Doub, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application September 8, 1950, Serial No. 183,894
3 Claims. (Cl. 260—575)

1. In a process for the production of 4-amino-2-hydroxybenzoic acid from a reaction medium containing m-aminophenol in aqueous medium with a boric acid catalyst, the step of producing said reaction medium which comprises heating under pressure to a temperature between about 150 and 225° C. a mixture of resorcinol and boric acid in an aqueous medium in the presence of ammonia.

2,640,855
METHOD FOR THE PRODUCTION OF N-METHYL - 1 - ISOBUTYLISOPENTYLAMINE
John B. Tindall, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application February 23, 1951, Serial No. 212,511
6 Claims. (Cl. 260—583)

1. A process for the production of N-methyl-1-isobutylisopentylamine which comprises reacting under superatmospheric pressures at elevated temperatures and in the presence of an inert solvent and a modified copper oxide catalyst selected from the group consisting of copper chromite and co-precipitated copper oxide-calcium fluoride, a mixture of diisobutyl ketone, methylamine and hydrogen.

2,640,856
PRODUCTION OF HEXAHYDROLUPULON AND THE SALTS THEREOF
John F. Carson, Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application February 21, 1950, Serial No. 145,585
11 Claims. (Cl. 260—586)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for preparing hexahydrolupulon which comprises reacting lupulon at a temperature from about 10° C. to about 40° C. with an excess of hydrogen in the presence of a preformed catalyst added as such to the reactants, said catalyst being selected from the group consisting of platinum oxide and palladium supported on active charcoal, whereby 6 gram atoms of hydrogen are absorbed per mole of lupulon thus to produce hexahydrolupulon.

2,640,857
CHLORINATED POLYMERS OF BRANCHED CHAIN 1,3-HEXADIENES
John L. Van Winkle, San Lorenzo, and Rupert C. Morris, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 13, 1948, Serial No. 44,237
1 Claim. (Cl. 260—648)

A composition boiling above about 100° C. at 10 mm. Hg pressure, which composition is obtained by reacting chlorine with a mixture of liquid, low molecular weight, unsaturated, cyclic polymers in solution in an inert solvent at a temperature between about 0° C. and 150° C. until the resulting chlorinated polymer composition has a chlorine content of at least 10% by weight, said polymeric reactant being a fraction boiling above 380° C. of a composition selected from the group consisting of (A) compositions obtained by heating a dimethylsulfolene at temperatures between about 80° C. and 200° C. in the presence of a member of the group consisting of molecular oxygen and peroxides and (B) compositions obtained by heating at least one methylpentadiene at temperatures between about 80° C. and 200° C. in the presence of sulfur dioxide and a member of the group consisting of molecular oxygen and peroxides.

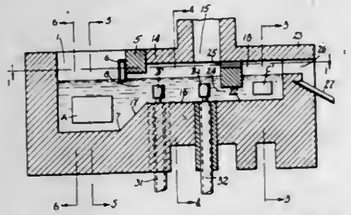
2,640,858
COLD RESISTANT CELLULAR RUBBER
William U. Hohwieler, Morrisville, Pa., assignor to the United States of America as represented by the Secretary of the Army
No Drawing. Application March 17, 1952, Serial No. 277,095
12 Claims. (Cl. 260—724)

1. A cold resistant cellular rubber product of a composition containing 55 to 58% of Pale Crepe, up to 0.2% of a mixture of xylyl mercaptan with inert hydrocarbon; 1.2% to 1.3% sulfur; 0.50% to 1.70% stearic acid, 1.70% to 2.80% zinc oxide; 0.50% to 1.10% salicylic acid with a dispersing agent; 2.90% to 4.90% dinitroso pentamethylenetetramine with an inert filler; up to 0.3% 2,2 benzothiazyl disulfide, up to 0.1% tetramethyl thiuram disulfide, 11.0% to 12% titanium dioxide, 5.0% to 6.0% of a polymer of butenes so polymerized as to produce a synthetic, heavy-bodied oil-like product, and 16.0% to 18.0% of a high molecular weight polyether having the chemical formula

$C_4H_9OC_2H_4OC_2H_4OCH_2OC_2H_4OC_2H_4OC_4H_9$

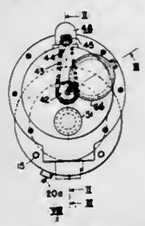
ELECTRICAL

2,640,859
APPARATUS FOR PRODUCING PORCELAIN ENAMEL
Robert E. Skinner, Fairview Park, and Glenn H. McIntyre, Cleveland Heights, Ohio, assignors to Ferro Corporation, a corporation of Ohio
Application December 2, 1950, Serial No. 198,790
2 Claims. (Cl. 13—6)



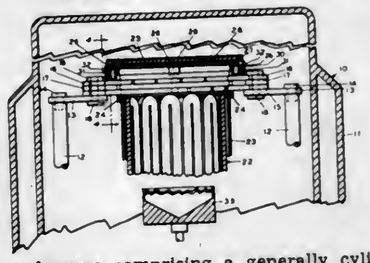
1. A smelter for the continuous production of porcelain enamel comprising adjacent melting, smelting and fining chambers, the hearth of said melting chamber being of substantially lower elevation than the hearths of said smelting and fining chambers, a single large unrestricted passageway for molten material and hot gases connecting said melting and smelting chambers, separate passages respectively for hot gases and molten material connecting said smelting and fining chambers, a discharge passage for finished material in said fining chamber, a plurality of electrodes in each of said chambers, a separate power circuit to each group of said electrodes, each of said power circuits sufficient to supply an electric current through said groups of electrodes to effect a heating current flow through a mass of porcelain enamel forming materials and a flue opening in said smelting chamber.

2,640,860
APPARATUS FOR MELTING TITANIUM TO FORM INGOTS
Schuyler A. Herres, Albany, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania
Application October 21, 1949, Serial No. 122,717
8 claims. (Cl. 13—9)



1. In apparatus of the character described for making metal ingots in a furnace crucible utilizing a consumable electrode made up of preformed sticks of air-sensitive metal, the combination of a carrier provided with a series of stick-receiving compartments therein, a sealing-off enclosure for said carrier, a second sealing-off enclosure positioned beneath said first-mentioned enclosure and on the furnace crucible over an opening therein, an opening through the top of said second enclosure into said first enclosure, guide means positioned within said second enclosure in alignment with the top opening therein and having portions to guide sticks through the opening of and into the furnace crucible, means actuating said carrier to periodically and progressively align each of its compartments with the top opening in said second enclosure, and means operably positioned within said first enclosure to advance a stick from an aligned compartment of said carrier through the top opening of said second enclosure into engagement with said guide means.

2,640,861
RESISTANCE FURNACE
Harry C. Kremers, Mentor, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
Application November 27, 1950, Serial No. 197,684
6 Claims. (Cl. 13—25)

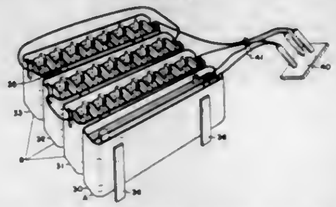


3. A furnace comprising a generally cylindrical side heater, a top heater covering the upper end of said side heater and comprising a pair of spaced, approximately parallel, carbon plates of approximately the same size, each plate having deep, narrow slits formed therein and spaced to form therebetween a ribbon, the slits in one of said plates extending at a substantial angle not exceeding 90° to the slits in said other plate at all points at which said slits overlie each other, the active heating areas of said plates together substantially completely covering an approximately circular area of approximately the size of but not of less diameter than the upper end of said side heater, means for supporting a receptacle containing material to be heated within said side heater and below said top heater, and means electrically connecting said plates to a source of current.

2,640,862
BATTERY PIGMENT
Melvin F. Chubb, Joplin, Mo., assignor to The Eagle-Picher Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application August 10, 1949, Serial No. 109,611
8 Claims. (Cl. 136—67)

1. A lead pigment suitable for use in a storage battery of the lead-acid type, said pigment comprising substantially .04 per cent by weight of viscose rayon fibers of substantially 1.5 denier, having a length of substantially ½ inch.

2,640,863
DEFERRED ACTION TYPE BATTERY
Grenville B. Ellis, Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application April 5, 1950, Serial No. 154,121
1 Claim. (Cl. 136—90)
(Granted under Title 35, U. S. Code (1952), sec. 266)



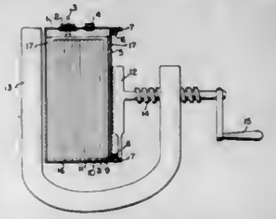
A multiple cell, deferred action type, extreme lightweight battery adapted for quick activation by "dunking" into a liquid electrolyte comprising a plurality of juxtaposed electrically connected cells, said cells each comprising as internal elements a flat, thin plate, zinc electrode and a flat, thin plate, lead peroxide electrode, said electrodes each being laterally surrounded by spacers of bibulous material, said internal elements of each cell being held together resiliently under pressure contact solely by means of a first resilient hull of insulating plastic sheet material laterally surrounding said internal elements, said first hull extending beyond the exposed lower edges of said internal elements while leaving top and bottom of the cell open, said plurality of juxtaposed cells possessing resilience with regard to their thickness in a transverse direction and being held under pressure contact solely by means of one second resilient outer hull of insulating plastic sheet material laterally surrounding said plurality of resilient cells while leaving top and bottom of said cells open for the entrance of liquid electrolyte.

2,640,864
PREPARATION OF POROUS ZINC ELECTRODES
Adolph Fischbach, Red Bank, and Frederick Hochberg, Loch Arbour, N. J., assignors to the United States of America as represented by the Secretary of the Army
No Drawing. Application June 27, 1951, Serial No. 233,928
5 Claims. (Cl. 136—126)
(Granted under Title 35, U. S. Code (1952), sec. 266)

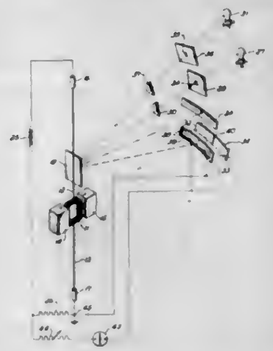
1. A method of making a lightweight porous zinc negative electrode for primary batteries comprising making a pasty mixture of zinc oxide and water, pasting said mixture into a supporting metal screen, drying said plate electrode and then submitting it for a very short time to temperatures above 300° C., forming said electrode cathodically in a forming solution to sponge zinc and finally washing and drying said sponge zinc electrode.

2,640,865
STORAGE BATTERY
Joseph B. Brennan, Cleveland, Ohio
Application July 27, 1948, Serial No. 40,919
3 Claims. (Cl. 136—166)

1. In an electrolytic cell a plurality of spacer plates, a metallic plate interposed between each of adjacent spacer plates, a liquid-tight container closely surrounding the plates, the container having a side formed with resilient integral portions shaped to apply substantially uniform pressure to the plates to hold them together regardless of temperature or use variations, and an electrolyte in the container.

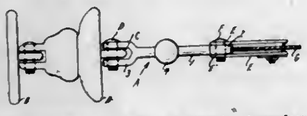


2,640,866
TORQUE COMPENSATED GALVANOMETER
Wilson M. Powell, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application March 8, 1949, Serial No. 80,303
3 Claims. (Cl. 171—95)



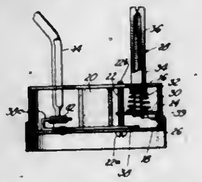
1. A fluxmeter comprising a galvanometer having a stationary permanent magnet field and a coil mounted for angular deflection about its axis from a zero point within said field, means torsionally suspending said coil and establishing a restoring torque proportional to the angle of displacement of the coil from its zero position, a pair of electrically separated photocells each of which has an effective area of light reception which increases in a direction away from the other photocell according to the angle of deflection of the galvanometer coil, a light source, a mirror attached to said suspending means and adapted to reflect light upon one or the other of said cells, a search coil connected to said galvanometer coil and adapted to transmit to the galvanometer a coil-deflecting current, and connecting means for differentially coupling the output from said photocells to said galvanometer coil for supplying a continuous torque compensating current thereto while light is applied to said cells whereby said compensating current acts in opposition to the direction of said restoring torque and is proportional to the amount of deflection of the galvanometer coil from its zero position.

2,640,867
INSULATOR COMBINED WITH LIVE LINE LINKS
Howard E. Clements, Webster Groves, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application November 20, 1948, Serial No. 61,259
3 Claims. (Cl. 174—139)



1. In combination with a strain insulator and a strain clamp, a live line link comprising an elongated unidirectional shank portion having means at its opposite ends which engage said strain insulator and said strain clamp for permanent assembly therewith, and an enlarged abutment on said shank portion between the opposite ends thereof which is engageable by a tool for subjecting said live line link to movement longitudinally of its major axis so as to take up tension in a line conductor with which the assembly of said live line link, said strain insulator, and said strain clamp is associated.

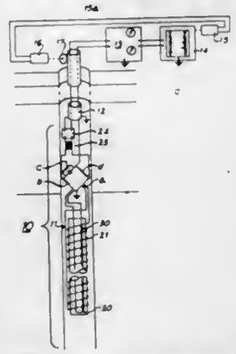
2,640,868
MAGNETIC FOCUSING DEVICE FOR CATHODE-RAY TUBES
Donald Paul Ingle, Defiance, Ohio, assignor to All Star Products, Inc., Defiance, Ohio, a corporation of Ohio
Application November 4, 1950, Serial No. 194,097
3 Claims. (Cl. 175—21)



1. An adjustable permanent magnet focusing device for a cathode ray tube or the like comprising in combination, a pair of substantially flat magnetic annular plates adapted to receive the neck of a cathode ray tube, a plurality of permanent magnets interposed between the plates and disposed near the outer peripheries thereof to define a cage, a guide stud affixed to one plate and aligned with the axis thereof, an axially shiftable magnetic shunting sleeve surrounding the cage in a snug but slideable fit and having a portion slideably receiving the stud, and a lead screw mechanism anchored to the shunting sleeve and one annular plate at a single point spaced from the stud and operable to shift the shunting sleeve axially.

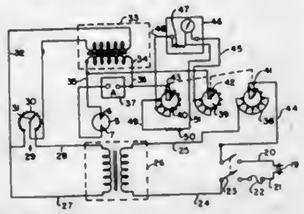
2,640,869
TEMPERATURE COMPENSATED SUSCEPTIBILITY LOGGING SYSTEM
Carl W. Zimmerman, Dallas, Tex., assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application June 3, 1950, Serial No. 165,972
5 Claims. (Cl. 175—182)

1. In a well logging system including a product arm bridge network having a plurality of arms connected to form two conjugate diagonals and of a type in which the value of an inductance in one arm can be expressed as a function of the value of a resistance in another arm under conditions of balance across one conjugate diagonal of said bridge network when alternating current is applied across the other conjugate diagonal, an inductor connected in said one arm of the bridge and adapted to be moved through the well, said inductor having an inductance value adapted to vary as a function of the ambient temperature, the improvement which comprises a temperature responsive resistance element disposed to be subjected to temperature va-



riations corresponding to the temperature variations experienced by said inductor as the latter is moved through the well, said resistance element being designed so that its resistance value will vary with temperature, over a temperature range, in accordance with the corresponding variations with temperature in the inductance of said inductor, said variations in inductance being expressed in terms of the equivalent variations in resistance in said another arm, and circuit means connecting said resistance element in said another arm of the bridge, whereby said bridge network will be maintained in balance for variations in the inductance of said inductor with temperature over said temperature range.

2,640,870
METHOD OF AND APPARATUS FOR ANALYZING GASES
Rudolph O. Seitz, East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application December 2, 1949, Serial No. 130,617
10 Claims. (Cl. 175—183)

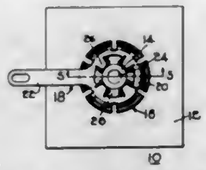


1. The method of determining the presence of gaseous impurities present in a stream of gas which comprises maintaining a portion of said stream at a substantially constant pressure,

maintaining continuously an electric arc of predetermined and constant length in said portion of the flowing stream of gas at a predetermined rate of flow of electric current and measuring the energy consumed in the arc.

6. In an apparatus for determining impurities present in a stream of gas, an enclosed passage through which the stream of gas flows, spaced electrodes in the passage, means for maintaining the pressure of the gas in the electrode vicinity in said passage substantially constant, means for supplying electric current at predetermined rate to the electrodes to maintain an arc between them, means for measuring the voltage of the arc, and means to prevent return flow of gas through the passage.

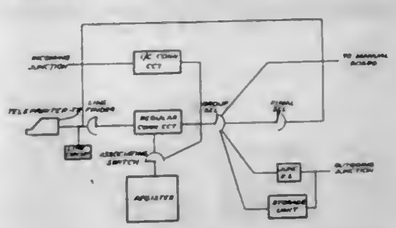
2,640,871
ELECTRICAL DEVICE
Edward M. Carbary, South Acton, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 16, 1949, Serial No. 105,190
6 Claims. (Cl. 175—366)



2. A rectifier assembly comprising a plurality of stacked rectifier plates spaced apart by compressible spacer members, said plates and said spacer members having aligned openings therein, a center insulating plastic support rod disposed through the openings having a substantially smooth exterior surface, and a locking lug disposed on each end of the support rod beyond each outermost rectifier plate to retain the plates assembled and compressed together on the rod, said lug comprising a base and an arm extending from the base having means thereon for connecting an electrical lead wire, said base being adapted to complete an electric circuit between the outermost rectifier plate and the extending arm, and having an opening therein, a first series of tongues disposed in the plane of the base and extending from the base into the opening to receive the support rod centrally thereof, and a second series of tongues disposed about the opening and extending upwardly from the base and inwardly over the opening, said second series of tongues being shaped and arranged to be flexed upwardly by the rod when the lug is assembled thereon and to engage the exterior surface of the rod, the first series of tongues serving to position the rod centrally of the second series of tongues to insure equal flexing of each of the lower tongues.

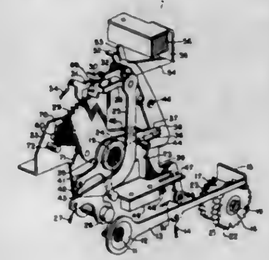
2,640,872
TELECOMMUNICATION EXCHANGE SYSTEM
George Clifford Hartley and Donald Adams Weir, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 29, 1949, Serial No. 90,322
In Great Britain April 30, 1948
13 Claims. (Cl. 178—2)

1. A telecommunication exchange system comprising means for initially transmitting a station identity signal in a first signal form, means for repeating said station identity signal in a different signal form bearing a predetermined relation to said first signal form, means for receiving said station identification signals and for recording said signals in a signal form which is the



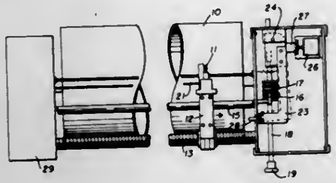
same for both said signals, comparison equipment operative to compare said recorded signals and control means responsive to said comparison equipment for controlling predetermined operations in accordance with the result of said comparison.

2,640,873
MOTOR CONTROL DEVICE
Frederick C. Moebius, Wheaton, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application March 2, 1951, Serial No. 213,605
3 Claims. (Cl. 178—4.1)



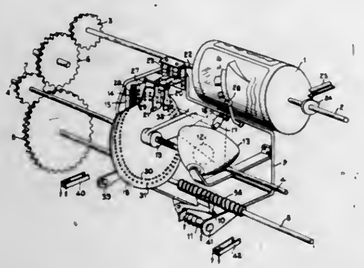
1. In combination, a timing mechanism comprising a first toothed member having periodic occurrences of teeth of predetermined greater depth, an integral cam and toothed member juxtapositioned to said first toothed member, an actuator, said actuator normally engageable solely with said first toothed member and adapted under the control of said deeper teeth to periodically engage simultaneously both said toothed members to impart movement intermittently to said integral member, a toothed segment, a cam follower controlled by the cam portion of said integral member, means carried by said cam follower for imparting stepwise movement to said toothed segment, a control switch, an instrumentality for operating said switch, means controlled by said segment for governing the control of said instrumentality over said switch, and a signal controlled cyclically operated means normally effective during signal reception to cyclically render said first recited means ineffective, whereby upon a cessation of operation of said signal controlled means said toothed segment is effective to operate said switch.

2,640,874
STARTING AND SWITCHING CONTROL APPARATUS FOR FACSIMILE RECORDERS
Kenneth R. McConnell, Red Bank, N. J., and Peter R. Marxan, New York, N. Y., assignors to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application August 4, 1949, Serial No. 108,514
14 Claims. (Cl. 178—6.6)



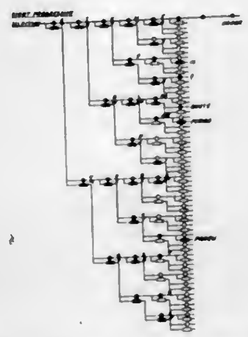
13. In a facsimile system having a drum-type recorder and means for driving the drum and conditioning the recording mechanism of said recorder for operation in response to received signals, in combination, a remote facsimile transmitter, means associated with the transmitter for generating facsimile signals in the form of a modulated carrier and a distinctive control pulse in the form of a modulated carrier, and means associated with said recorder for detecting said control pulse and starting up the recorder mechanism in response thereto.

2,640,875
FACSIMILE TELEGRAPH TRANSMITTER
Lucien Devaux, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 27, 1947, Serial No. 737,499
In France February 7, 1940
18 Claims. (Cl. 178—7.1)



1. Facsimile telegraphic apparatus comprising a rotatable scanning drum, means to direct a beam of light toward said drum, a perforated reflector interposed between said drum and said light, a single photoelectric cell, means to direct the reflections from said reflector and said drum toward said cell, a revoluble disk having three circles of holes adapted to product different frequencies interposed before said cell, shutters adapted to control the light from said reflector and said drum through said holes of the disk, and means to operate said shutters to selectively admit light to said cell through the circles of said disk.

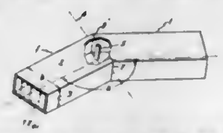
2,640,876
TELEGRAPHIC CODE CONVERTER
Leander M. Weir, United States Navy, and Casper J. Weir, Jr., San Luis Obispo, Calif.
Application March 14, 1944, Serial No. 526,396
28 Claims. (Cl. 178—22)



15. Apparatus for converting telegraphic code signals directly into printed words, comprising: a source of code signals; a power circuit; means for simulating the signals in said power circuit; a first relay responsive to said signals; driving means; speed regulating means for said driving means; a first discriminating cam actuable by said driving means and releasable by said first relay for rotation in response to the beginning of a simulated signal, operative to select a code signal and to control said speed regulating means in accordance with the speed of the received signals; a second discriminating cam actuable by said driving means; a multicontact switch operated in response to termination of the simulated signal; a printing circuit conditioned by said multicontact switch; a bank switching relay operable by said multicontact switch to reset said first cam and condition said second cam for a following signal; a printing relay switch and cam actuable by said driving means for closing said printing circuit upon occurrence of an intercharacter interval and for resetting the bank switching relays after printing of a character; a spacing relay switch and cam actuable by said driving means and operated in response to occurrence of an interword space; a resetting relay switch for said printing and spacing cams; character selection relays operated by said discriminating and printing cams; printing cut-out relays for locking out the relays not selected for a given character; and a printer to print and space the letter characters in accordance with the operations of said relays and cams.

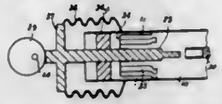
2,640,877
WAVE GUIDE ELBOW JOINT
Charles W. Miller, Sale, Godfrey Saxon, Stockport, and Michael C. Crowley-Milling, Colwyn Bay, England, assignors to General Electric Company, a corporation of New York
Application April 14, 1948, Serial No. 20,926
In Great Britain April 17, 1947
6 Claims. (Cl. 178—44)

3. A wave guide structure for propagating transverse electric waves, comprising a pair of straight sections of hollow rectangular wave guide, said sections intersecting in a junction plane and extending radially from said junction plane, the longitudinal axes thereof forming an obtuse angle, each section having a pair of major and a pair of minor walls, the plane of said junction being perpendicular to said major walls,



and a member supported in said wave guide sections and in the plane of said junction parallel to said minor walls to reduce reflections at said angle.

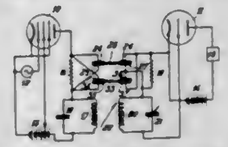
2,640,878
SWITCH FOR HIGH-FREQUENCY ELECTRICAL OSCILLATIONS
Dennis Clark Espley, North Wembley, England, assignor to The General Electric Company, Limited, London, England
Application October 11, 1948, Serial No. 53,868
In Great Britain July 29, 1947
8 Claims. (Cl. 178—44)



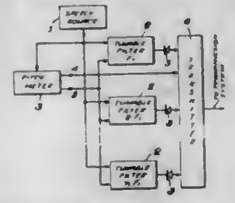
1. A switch for high frequency electric oscillation of mean wave length λ, comprising a first transmission line of electrical length $p\lambda/4$ where p is an integer, a second transmission line having such an electrical length, and being terminated at one end in an impedance of such a nature, that at the wave length λ it has an input impedance measured at its second end which is substantially a pure positive reactance, a coupling element, means guiding said coupling element for movement over a predetermined fixed path, and means for limiting the normal movement of said coupling element over said path so that at one limit of the normal movement of the coupling element said second end of the second transmission line is coupled to one end of the first transmission line by an impedance which at the wave length λ is substantially a pure negative reactance of equal magnitude to said positive reactance and at the other limit of the normal movement of the coupling element said second end of the second transmission line is substantially decoupled from said one end of the first transmission line.

2,640,879
BAND PASS FILTER
Marcel Charles Tournier, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 23, 1947, Serial No. 763,068
In France August 8, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires August 8, 1959
3 Claims. (Cl. 178—44)

1. A band-pass filter having input and output terminals and comprising a pair of inductively coupled anti-resonant circuits and a pair of piezo-electric transformers each having input and output terminals, said transformer input terminals being connected in parallel with each other and in series with one of said circuits to the input terminals of said filter and said transformer output terminals being connected in parallel with each other and in series with the other of said circuits to the output terminals of said filter.

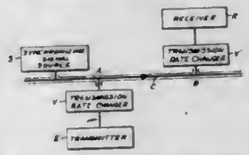


2,640,880
SPEECH COMMUNICATION SYSTEM
Pierre Raoul Aigrain, New York, N. Y., and Jean-Baptiste Lair, Nutley, N. J., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 24, 1948, Serial No. 50,516
5 Claims. (Cl. 179—1.5)



1. A communication system comprising a source of speech waves, a plurality of automatically tunable band pass filters, means for producing a control voltage proportional to the frequency of the fundamental frequency component of said speech waves, means responsive to said control voltage to tune each of said filters to pass a corresponding harmonic component of said waves, means deriving from the output of each of said filters a voltage proportional to the amplitude of the corresponding harmonic, and means for transmitting signals indicative of such control voltage and said derived voltages.

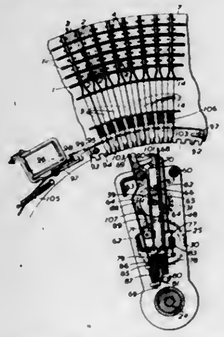
2,640,881
MULTICHANNEL ELECTRICAL PULSE COMMUNICATION SYSTEM
Henri Maurice Veaux, St.-Jœu-la-Foret, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 3, 1947, Serial No. 758,852
In France August 6, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 6, 1963
3 Claims. (Cl. 179—15)



1. A multichannel pulse communication system comprising means for producing a plurality of trains of pulses, means for modulating each of said trains in accordance with the signal in a given separate channel, means interleaving the

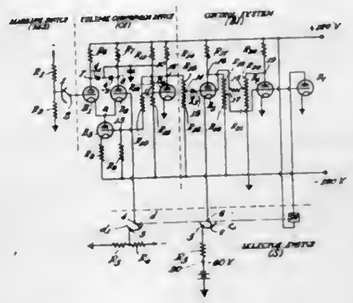
modulated trains of pulses to form a single multichannel train in which each pulse is preceded and followed by a pulse of another channel and means for rearranging the pulses of the multichannel train in successive groups each comprising a plurality of pulses, the pulses within each group all belonging to the same channel but being of a different channel from those of the adjacent groups, said rearranging means comprising a storage device, means for applying the pulses of said multichannel train to said device in a given order, and means for removing the stored pulse energy from said device in another order so that successive groups are formed each comprising a plurality of pulses, the pulses within each group all belonging to the same channel but being of a different channel from those of the adjacent groups.

2,640,882
TWO-MOTION SWITCHING SYSTEM
Jakob Kruithof, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 5, 1948, Serial No. 18,865
In the Netherlands September 13, 1947
10 Claims. (Cl. 179—18)



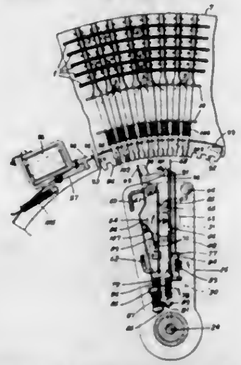
1. In a switching system for establishing a plurality of connections, a multi-switch having a plurality of individual switches divided into sections, individual actuating means for operating said switch sections, a common mechanism mounted for movement into and out of co-operative relationship with said individual switch-section-actuating means, means for moving said mechanism into operative relationship with a section of an individual switch, and means carried by said mechanism for operating said switch - section - actuating means after said mechanism has been moved into operative relationship with a switch section, the individual switches being mounted in stacked formation with the corresponding switch sections in aligned rows so that the common mechanism may be moved into operative relationship with all of the aligned switch sections in a given row at the same time, the multi-switch being provided with a plurality of stationary contacts, one for each row of switch sections, and a contact mounted on said common mechanism and co-operating with said stationary contacts when said common mechanism is moved, a test conductor for each row of switch sections, and means for connecting each of said stationary contacts with the corresponding test conductor.

2,640,883
MARKER CONTROL ARRANGEMENT FOR SELECTORS
Robert Bertold Buchner, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 29, 1949, Serial No. 107,412
In Holland September 11, 1948
3 Claims. (Cl. 179—18)



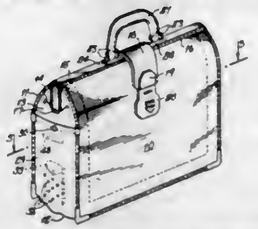
1. In an automatic signalling system: the combination comprising a call selector including first and second switches each having a series of contacts, an arm for successively engaging said contacts and means for concurrently actuating the arms of said switches, means for impressing on each contact of said first switch a potential whose value is representative of its numerical position, and means for impressing on each contact of said second switch a potential whose value relative to ground is indicative of whether the call selector is free or busy, the potential in the free condition being low relative to that in the busy condition; a marking potential source; a testing device coupled to the arm of said first switch and coupled to said source to compare the potential on said arm with said marking potential to produce at a point in said device a test potential having a predetermined value when the compared potentials are equal and an other value when the compared potentials differ; and a control system including first and second electron discharge tubes having a cathode, a grid and an anode, means connecting the cathode of the first tube to the arm of the second switch, means connecting the cathode of the second tube to ground, first and second output impedances connected between the anode of said first and second tubes respectively and ground, means combining said test potential and the potential established at a prescribed point in said second output impedance and applying the resultant potential to the grid of said first tube in a manner at which the resultant grid potential is equal to the higher of the two combined potentials and at which the resultant grid potential at the predetermined test potential value relative to the cathode potential of the first tube at the free condition potential thereof renders the first tube conductive but at the other relative values maintains same non-conductive, means connecting the grid of the second tube to a prescribed point in the output impedance of the first tube presenting a potential at which said second tube is rendered conductive when said first tube is non-conductive and is rendered non-conductive when said first tube is conductive, and means responsive to the conduction of said first tube to arrest the actuation of said switches.

2,640,884
ELECTRIC MULTISWITCH
Jakob Kruithof, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 11, 1948, Serial No. 14,215
In the Netherlands September 12, 1947
10 Claims. (Cl. 179—27.52)



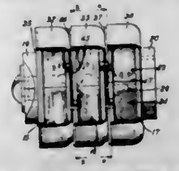
1. A selector switch comprising a frame, a plurality of first uniformly spaced resilient conductors disposed in parallel planes on said frame, there being a plurality of said first conductors in each plane, a plurality of second uniformly spaced conductors disposed on said frame and intersecting the planes of the first conductors at points respectively adjacent to said first conductors, a plurality of movable members mounted on said frame, each of said movable members being operative to engage said first resilient conductors of a plane at points adjacent to the intersection points of a respective group of said second conductors, common means movably mounted on said frame, means for selectively positioning said common means adjacent predetermined of said movable members, and driven means on said common means operable to move predetermined of said movable members into engagement with said first resilient conductors for displacing said resilient conductors into contact with a respective group of said second conductors, and means for driving said driven means.

2,640,885
TRAVELING BAG FOR SOUND RECORDING AND REPRODUCING MACHINES
Jacob M. Kuhlik, Sea Gate, N. Y., assignor to Hattie B. Kuhlik, Sea Gate, N. Y.
Application June 11, 1951, Serial No. 230,890
3 Claims. (Cl. 179—100.1)



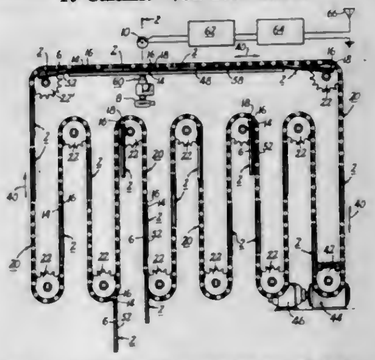
1. A sound recording and reproducing machine outfit comprising a bag having front, rear, bottom and end walls and being open at the top, said front wall having openings therein, means for closing the opening at the top, a sound recording and reproducing machine on the bottom wall inside said bag, a perforated pocket on the outer surface of one of said end walls, a microphone in said pocket, means for operatively connecting said microphone to the machine, sound deadening material interposed between said microphone and said machine, and flexible means connected to the machine and protruding outwardly through the openings in the front wall for starting and stopping the machine.

2,640,886
MAGNETIC TRANSDUCER HEAD
Charles C. Davis, Los Angeles, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 28, 1951, Serial No. 248,703
5 Claims. (Cl. 179—100.2)



1. An electromagnetic transducer comprising a plurality of spaced magnetic heads, means partially magnetically shielding said plurality of heads one from the other and a metallic member extending from the exposed lateral surface of one head to the facing exposed lateral surface of a head adjacent thereto to form a low reluctance magnetic path between all said heads.

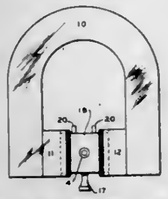
2,640,887
AUTOMATIC PAGING SYSTEM
Walter Robert Hicks, Manhasset, N. Y., assignor, by mesne assignments, to Aircall, Inc., New York, N. Y., a corporation of Delaware
Application October 31, 1951, Serial No. 254,115
10 Claims. (Cl. 179—100.3)



1. In an automatic paging system wherein parties to be paged are designated respectively by distinctive audio code signals, apparatus comprising a plurality of separate sound records each having recorded thereon a distinctive code group, a conveyor for removably supporting said records in successive positions along an endless path, a sound reproducing device cooperating with said

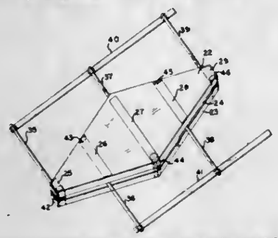
records, motor-driven means drivably connected to said conveyor to move said records successively into operative position with respect to said reproducing device in continually repeating cycles and in the order in which said record carriers are positioned on said conveyor, and a table for supporting said records arranged to provide vertical and horizontal guidance of said records as they are moved sequentially through said operative position.

2,640,888
PHONOGRAPH PICKUP
Edward E. Combs, Albany, Calif.
Application November 7, 1949, Serial No. 126,005
3 Claims. (Cl. 179—100.41)
(Granted under Title 35, U. S. Code (1952), sec. 266)



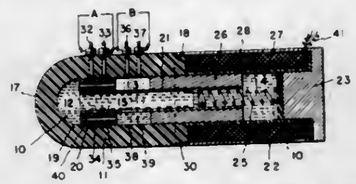
1. A phonograph pick-up device for use with laterally cut disc recordings, comprising: magnet means having two opposing pole pieces, each of which is adapted to receive a cylindrical element; a cylindrical non-magnetic armature positioned between said pole pieces, said armature having at least one coil thereupon wound parallel to its axis and being adapted to receive a phonograph needle projecting at right angles to said axis; cylindrical resilient bearing means coaxial with and entirely encasing said armature, said bearing means being disposed within said pole pieces and serving to support said armature as well as confine its motion to the arc of a circle and a projection of substantially the same size, shape and mass as said phonograph needle symmetrically positioned on the opposite side of said armature from said needle.

2,640,889
PIEZOELECTRIC TRANSDUCER
Walter L. Cherry, Jr., Northbrook, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application May 17, 1949, Serial No. 93,700
6 Claims. (Cl. 179—110)



6. A microphone for use in hearing aids and the like comprising: a case constituting a grounded output terminal; a piezo-electric transducer supported in said case and comprising a composite bimorphic element including a pair of juxtaposed polycrystalline aggregate uniform-strength beams having permanent piezo-electric properties with the direction of the piezo-electric axis substantially opposite in longitudinally adjacent portions of each of said beams, equally spaced conductive strip terminals disposed transversely of said axis on the outer surfaces of said composite element between said longitudinally adjacent portions, and a plurality of terminal leads supported between said beams in parallel relation with and individually electrically connected to respective ones of said strip terminals; means grounding alternate ones of said terminal leads to said case to ground the conductive strip terminals connected to said alternate leads; an electrically conductive resilient diaphragm peripherally supported by said case and electrically and mechanically fixed to said element at a point on one of said grounded strip terminals; and means insulated from said case for interconnecting the remainder of said terminal leads to provide a second output terminal.

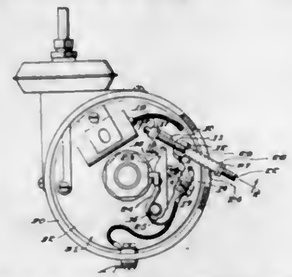
2,640,890
MULTIPOSITIONED LIQUID SWITCH
Howard R. Johnson, Pound, Va.
Application April 28, 1950, Serial No. 158,774
7 Claims. (Cl. 200—112)



1. A fluid switch assembly comprising a casing including front and rear sections abutting and joined together in a detachable manner, electrodes passing from the exterior into the interior of the front section and enclosed in insulation, said casing being provided with a longitudinal chamber extending substantially throughout its length, said rear section being formed with an annular recess therein, a solenoid encompassed by said rear section and extending from said recess, a hollow plunger including a tube, a core and a piston extended therefrom disposed in said chamber and reciprocable therein, said tube, piston and core member so arranged and spaced as to divide said chamber into three spaced subchambers in axial alinement, a fluid conducting medium in said chambers and tube for operatively contacting said electrodes, said solenoid on being energized being adapted to pull said core towards it and move the plunger so that the medium will be propelled from one subchamber to another and selectively bridge and unbridge said electrodes while the piston is covering and uncovering them as it takes up certain predetermined positions in its travel.

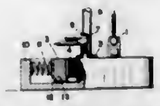
2,640,891
ADJUSTABLE MOUNTING FOR DISTRIBUTOR BREAKER POINTS
Robert J. Buck and Wayne H. Ball, Steubenville, Ohio
Application December 31, 1949, Serial No. 136,224
2 Claims. (Cl. 200—30)

1. In a distributor for ignition systems of internal combustion engines, the combination which comprises a distributor having an outer casing, a horizontally disposed disc positioned in said casing, a cam positioned above the disc, a post mounted on the disc, a breaker point base pivotally mounted on the post and having an upwardly extended flange on the outer end with a breaker point on the flange, said breaker point base having a slot therein positioned on a radius from the center of the post, a stud extended through the slot and threaded into the said disc, a spring on the stud frictionally holding the said breaker point base, a bearing stand positioned on



said disc, a screw extended through the wall of the distributor journaled in said bearing stand and threaded into the upwardly extended flange of the breaker point base, a coacting breaker point arm pivotally mounted on said post and insulated therefrom, breaker points positioned on the said arm and flange of the breaker point base, a follower carried by the said arm and positioned to bear against the cam, and means resiliently urging the follower against the cam.

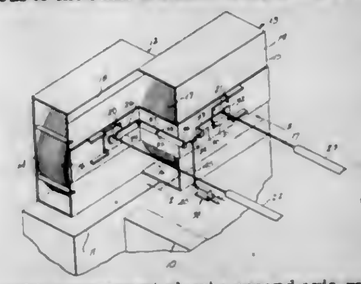
2,640,892
ANTIGYRATION SELECTOR SWITCH FOR ROTARY WING AIRCRAFT
John C. Childs, New Rochelle, N. Y.
Application October 21, 1948, Serial No. 55,741
6 Claims. (Cl. 200—52)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Switching apparatus for operating trimmer means associated with a rotor mounted on a shaft in a rotary wing aircraft, said switching apparatus comprising a contact adapted to be fixedly mounted on said aircraft adjacent the shaft of said rotor, an annular ring adapted to surround said shaft, a second contact, said second contact being mounted on said annular ring, resilient substantially frictionless bearing means for supporting said annular ring for freely floatable and rotatable movement relative to said shaft, said annular ring being movable in a gyrational path in response to gyration of said rotor caused by an unbalanced condition in said rotor, said fixed contact being positioned so as to intercept said second contact during its travel in said gyrational path.

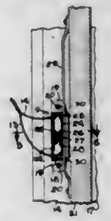
2,640,893
SWITCH ACTUATING DEVICE FOR HAY BALERS
Ralph V. Stalzer, Renwick, Iowa
Application November 21, 1950, Serial No. 196,849
8 Claims. (Cl. 200—52)

3. In an alarm switch means for a hay baler, the combination with a pair of wire housings each including means for the extension therethrough of the wire contained therein, of a first wire-engaging element positioned contiguous to one of said housings and mounted for rocking movement about a first axis, means formed on said first wire-engaging element in the path of the adjacent wire and engageable therewith for limiting said rocking movement in one direction, a second wire-engaging element positioned contiguous to the other of said housings and mounted



for rocking movement about a second axis, means formed on said second wire-engaging element in the path of the adjacent wire and engageable therewith for limiting the rocking movement of said second wire-engaging element in one direction, a link connected at opposite ends thereof to the respective elements, and a connecting arm having one end connected to the link intermediate the opposite ends of the link, for movement with the link responsive to rocking of either element in said direction.

2,640,894
BURGLAR ALARM SWITCH
August Krueger, Chicago, Ill.
Application October 14, 1948, Serial No. 54,523
1 Claim. (Cl. 200—54)



An electric alarm control switching means for use with a window structure having frame means, and window sash means slidably disposed in said frame means in guided relation thereto, said switching means comprising, in combination, an elongated cam bar having an elongated straight cam surface thereon, and having means at opposite ends thereof for positioning said straight cam surface on said sash means in parallel relation to said frame means and in parallel offset spaced relationship to the sash means, a switch housing having end walls, side walls and a bottom wall arranged in a rectangular box-like construction with one side thereof open, attaching means on said housing for mounting the same on said frame means so that the open side of said housing faces the window sash, said end walls of said housing being notched adjacent said open side to permit entry of said cam bar into said housing between said side walls, a movable switch arm pivotally

mounted in said housing intermediate its ends for swinging movement about an axis transverse of said housing, a stationary electrical contact mounted on said bottom wall of said housing and positioned for engagement with one end of said switch arm, and resilient means for forcing said switch arm into engagement with said contact, said switch arm being positioned relative to the notches in the end walls of said housing so that entry of said cam bar into said housing through said notches engages the outer surface of said switch arm moving the latter out of engagement with said stationary contact.

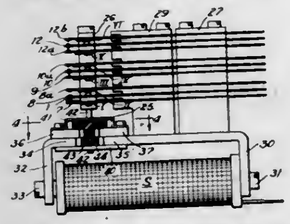
2,640,895

IMPULSE-RESPONSIVE STEPPING DEVICE ACTUATED BY MAGNETIC TORQUE

Hans P. Boswau, Dundee, Ill.

Application October 24, 1947, Serial No. 781,816

12 Claims. (Cl. 200—105)



1. An electromagnetic step-by-step driving device having a stepping magnet comprising a movably mounted generally disklike armature carrying a plurality of radially outwardly pointing axially peripherally disposed angularly directed teeth, a generally platelike pole piece forming an opening, grooves disposed in the wall of said opening of said pole piece forming transversely angularly directed teeth thereon for magnetic coaction with the teeth of said armature, means for resiliently biasing said armature in a direction perpendicular to the plane of said pole piece to maintain it in normal position partially retracted from said pole piece and partially outside the boundaries thereof with its teeth axially aligned with corresponding teeth of said pole piece but radially separated therefrom by an air gap, and means for energizing said stepping magnet to create flux across the gap between the teeth of said pole piece and the teeth of said armature for the purpose of causing said armature to move from its normal position to operated terminal position in a composite motion perpendicular to the plane of said pole piece and simultaneously angularly with respect thereto to dispose its teeth across said air gap in face-to-face alignment with corresponding teeth of said pole piece, said biasing means being operative upon deenergization of said stepping magnet to restore said armature to normal in a straight-line motion perpendicular to the plane of said pole piece.

2,640,896

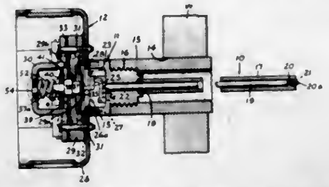
THERMOSTAT DEVICE

John B. Cataldo, Bernardsville, and Albert N. Cook, Stirling, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application March 16, 1950, Serial No. 149,948

3 Claims. (Cl. 200—137)

1. In a thermoresponsive device having thermal sensing means adapted to provide a limited output movement in response to a preestablished temperature differential, a housing having a first chamber formed therein, an axially movable shaft member extending into said chamber and having a shoulder formed thereon, movable plate means in the chamber having a central aperture to receive said shaft and engaging said shoulder, first and second spring means disposed on opposite sides of the axis of said shaft member reacting between said housing and said plate means, first and second pairs of stationary contacts mounted in said chamber, contact means on said plate means, said contact means being adapted to complete electrical circuits between each of said pairs of stationary contacts, a snap spring



disc adapted to partake of snap movement between two configurations, annular abutment means for loosely confining said disc adjacent its periphery, said sensing means being adapted to engage the center portion of said disc to induce snap movement between said configurations, the inner end of said movable shaft member being spaced from the center of said disc in one of said configurations but disposed within the range of travel of the disc to the other configuration, thereby to be engaged and displaced by said disc after snap movement is initiated by said sensing means, the displacement of said movable shaft member being adapted to displace said plate means and contact means thereon to open the circuits between said stationary contacts.

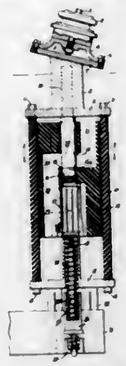
2,640,897

LIQUID BREAK CIRCUIT BREAKER

William E. Paul, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 3, 1951, Serial No. 204,178

7 Claims. (Cl. 200—150)



1. An electric circuit breaker comprising casing structure containing insulating fluid, a pair of relatively movable contacts separable within

said casing, means including a piston disposed within said casing and movable from a normal position to an operated position to subject the arc drawn between said contacts upon separation thereof to a flow of said fluid, said casing being substantially pressure tight in the regions thereof adjacent opposite surfaces of said piston, venting means in said casing adjacent the region in which the arc is drawn for relieving the pressure developed due to the arc, and means defining a substantially closed passageway for affording communication between the region in which the arc is drawn and said opposite surfaces of said piston so that pressure due to the arc is transmitted substantially simultaneously to said opposite surfaces.

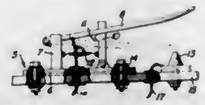
2,640,898

SAFETY CUTOFF SWITCH FOR TRACTORS

Gerald C. White, Macon, Ill.

Application April 25, 1950, Serial No. 157,925

2 Claims. (Cl. 200—169)



1. In a tractor having an engine ignition system and a power operated machine connected to and driven by the tractor with a manually operable ignition cut-off switch mounted on the machine whereby the tractor ignition system may be cut-off from the machine, the improvement comprising; said switch including a base, a standard on said base, a switch arm pivoted at one end to said standard and having a longitudinally extending slot intermediate its ends, an elongated catch pivoted at one end to said base, said catch being slidably received in said switch arm slot, a dog integral with one edge of said catch, a spring extending between and secured at its ends to said standard and said catch to yieldingly urge said catch toward said standard, said dog engaging said switch arm adjacent said slot for selectively holding the arm in a raised or lowered position, a contact on said base engaging said switch arm when the arm is in lowered position, a conductor leading from said switch arm to said tractor ignition circuit and a conductor leading from said contact to a ground terminal on said tractor, said switch arm grounding said ignition circuit when in lowered position whereby the ignition system is cut off.

2,640,899

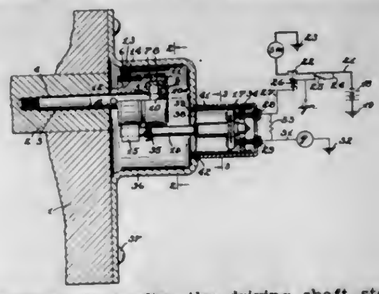
SWITCH ACTUATING MECHANISM

John W. Dickey, Newfield, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware

Application July 17, 1950, Serial No. 174,245

4 Claims. (Cl. 200—153)

1. In combination with a rotary member and a switch to be actuated thereby, a driving shaft connected to rotate with said member having a driving disc fixed thereon; a coupling member journalled on the driving shaft having a chamber enclosing said disc, a slow-flowing material in said chamber forming a viscous connection from the disc to the coupling member rotating the coupling member substantially in unison with the disc, a spring member embracing the coupling member mounted for limited arcuate movement and having a friction connection therewith; means connecting the spring member to the switch for actuating the switch responsive to rotation of the coupling member, and elastic means for returning the spring member to idle position, through yielding of the viscous connection, a pre-



determined time after the driving shaft stops rotating; in which said chamber is substantially filled with the viscous material, and including further an elastic closure for said chamber sealing it against escape of the viscous material while permitting expansion and contraction thereof.

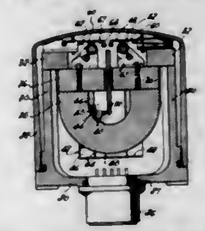
2,640,900

BRUSH LIFTING DEVICE FOR VARIABLE RESISTANCES

Alfred J. Klose, Rolling Hills, Calif., assignor to G. M. Giannini & Co. Inc., Pasadena, Calif., a corporation of New York

Application October 30, 1951, Serial No. 253,797

5 Claims. (Cl. 201—48)



1. In combination with an elongated electrical resistive element, brush means including a brush engageable, in response to a yielding force, with the resistive element to form therewith a path for electric current, brush actuating means acting to move the brush longitudinally with respect to the resistive element to vary the electrical properties of the said current path, brush lifting means comprising a bi-metallic heat responsive element shiftable by temperature change between two conditions, structure interposed between the brush means and the heat responsive element and movable in response to changes of its temperature, the said structure including a control member positioned adjacent the brush means in all longitudinal positions of the brush, the control member being movable in response to one condition of the heat responsive element to an idle position spaced from the brush means, and being movable in response to the other condition of the heat responsive element to an operating position engaging the brush means in all longitudinal positions of the brush, the control member in operating position applying to the brush means a force acting to oppose the said yielding force and to shift the brush into spaced relation

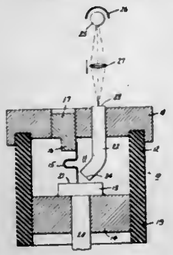
with the resistive element, and control means for selectively supplying heat to the heat responsive element.

2,640,901

PHOTOELECTRIC SEMICONDUCTOR DEVICE

Thomas H. Kinman, Rugby, England, assignor to General Electric Company, a corporation of New York

Application May 28, 1951, Serial No. 228,568
In Great Britain June 6, 1950
1 Claim. (Cl. 201—63)



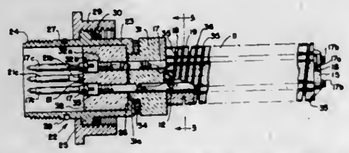
Photoelectric apparatus comprising a germanium wedge, a first electrode in contact with the base of said wedge, a pair of filamentary electrodes making substantially point contact with respective opposite sides of said wedge, a light impervious housing enclosing said wedge and said electrodes, means extending through said housing for making respective connection to said electrodes, and a transparent light guiding and transmitting cylindrical rod having a high refractive index providing substantially total internal reflections to longitudinally propagated light rays and extending from the exterior of said housing through said housing to a point within said housing adjacent the region of point contact of one of said filamentary electrodes, said rod having opposite ends substantially perpendicular to the longitudinal axis of said rod for the admittance and transmittance of internal longitudinally propagated light rays.

2,640,902

TEMPERATURE RESPONSIVE CONTROL

Leonard E. Aske and James A. Thayer, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application June 27, 1952, Serial No. 296,054
9 Claims. (Cl. 201—63)



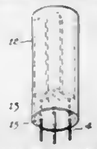
1. A temperature responsive device, for exerting a control function in response to rate of temperature change, comprising an electrically insulating bobbin having a plurality of grooves extending longitudinally thereof, a shallow spiral groove in the outer bobbin surface interrupted by each of said longitudinally extending grooves, a deep and continuous spiral groove in the outer bobbin surface with the beginning and ending thereof substantially 180° apart from the beginning and ending of said interrupted groove, a first temperature responsive wire in said interrupted groove and spanning said longitudinal grooves so as to be quickly responsive to temperature changes in the surrounding air, a second temperature responsive wire in said continuous groove as to be substantially shielded from and slowly responsive to temperature changes in the surrounding air, and means for supporting said bobbin.

2,640,903

RESISTANCE CONSTRUCTION

Wilbur M. Kohring, Lakewood, Ohio, assignor, by mesne assignments, to Aerovox Corporation, New Bedford, Mass., a corporation of Massachusetts

Application July 15, 1950, Serial No. 174,079
9 Claims. (Cl. 201—64)



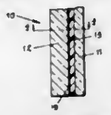
1. In resistance construction, a resistance body, terminals held in end openings thereof by contacting-surface deformation, compound flanges on said terminals against the ends of said body, a moisture-excluding layer of plastic material over the body and flanges, means for protecting said resistor including a ceramic shell, and means for positioning the resistor to the shell including a plate fitting the end of the shell and having an opening to co-relate the terminal of the adjacent end of the resistor.

2,640,904

LAMINATED SAFETY GLASS

Romey A. Gaiser, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application August 10, 1950, Serial No. 178,627
1 Claim. (Cl. 219—19)



An electrically conducting laminated glass unit comprising alternate layers of glass and tough flexible thermoplastic material and having a face of one of said glass layers nearer to the center of thickness of the unit than any other face of any of the other of said glass layers, and a transparent electrically conducting film on said first-mentioned glass face, said film and said alternate layer of glass and tough flexible thermoplastic material, all being securely bonded together into a composite structure.

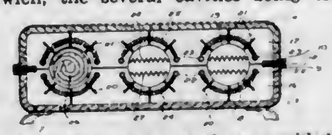
2,640,905

CYLINDRICAL SANDWICH TOASTER

Milton L. Evans, Miami, Fla.

Application July 14, 1952, Serial No. 298,825
2 Claims. (Cl. 219—19)

1. A toaster of the character described for evenly toasting the entire outer exposed surface of a rolled sandwich of the type wherein an edible filler is rolled in a slice of bread, that comprises upper and lower identical and mating casing sections hinged at one side whereby the upper section may swing toward and from the lower section, the sections formed open on their mating sides, each of the casing sections provided with a plurality of vertically arranged and equidistantly spaced longitudinally extending parallel partitions, each of the partitions being arcuately notched at equidistantly spaced points with the notches opening toward the open sides of the casings, the notches forming semi-cylindrical cavities in each section and with the cavities of each section having mating relation when the sections are in the closed position to jointly form cylindrical cavities for the reception of a rolled sandwich, the several cavities being closed at



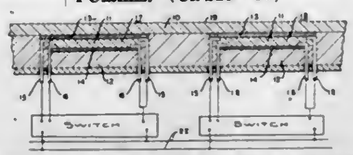
their ends, each of the sections provided with a plurality of transverse radially disposed and arcuately arranged partitions that are connected to the longitudinal partitions, the several partitions being apertured for the reception of electrically heated resistance elements, the resistance elements being wound through the several apertures to conform to the semi-circular contour of the cavities, the resistance elements being extended across the opposite ends of each semi-circular cavity, a source of electrical energy connected with the resistance elements of the lower section and an electrical conductor leading from the source of electrical energy of the lower section to the resistance elements of the upper section and means for retaining the several partitions and their supported resistance elements within the casing sections.

2,640,906

ELECTRICAL HEATING DEVICE

Clyde H. Haynes, Elyria, Ohio

Application June 2, 1949, Serial No. 96,779
4 Claims. (Cl. 219—37)



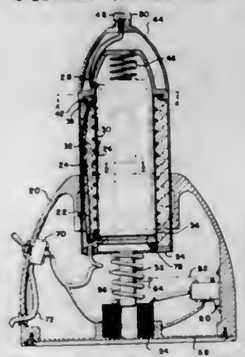
1. An electric stove top providing a plurality of individual localized heat areas for cooking, said stove top comprising, a single supporting member of electrically non-conductive heat insulating and heat resistant material having a top surface, said single supporting member having a plurality of recesses therein opening on said top surface and defining localized heat areas with the recesses spaced from each other and providing a plurality of individual bottom surfaces, a first individual electrically conductive heat producing coating adherently applied only to each individual bottom surface, a first electrically non-conductive coating adherently applied only to each of said first electrically conductive heat producing coatings within each recess, a second individual electrically conductive heat producing coating adherently applied only to each of said electrically non-conductive coatings within each of said spaced recesses, said first and second conductive heat producing coatings and said first non-conductive coating in each recess having a combined thickness generally equal to the distance between said bottom surface and said top surface thereby positioning said second heat producing coating in the general plane of said top surface, and a thin coating having physical properties tending to prevent transmittal of heat from said localized heat area to the remainder of the thin coating, said thin coating of smooth water-proof heat resistant material electrically non-conductively and adherently applied to all of the second individual conductive coatings in said spaced recesses and also adherently applied to all of the top surface of the member between the spaced recesses and thereby forming therewith a smooth water-proof surface top for an electric stove.

2,640,907

WARMING DEVICE

Glen H. Morey, Terre Haute, Ind., assignor to Glas-Col Apparatus Co., Inc., Terre Haute, Ind., a corporation of Indiana

Application December 1, 1950, Serial No. 198,605
6 Claims. (Cl. 219—43)



4. In a warming device for nursing bottles and the like: a base, a support reciprocable in the base including a well to receive the bottle, means for heating the bottle including an electric heating element, and a thermostat for regulating the temperature in said bottle, means including a magnetic plunger on said support and a solenoid on said base to attract said plunger for reciprocating said support, a circuit for connecting said solenoid, said element, and said thermostat, a first switch means in said circuit for independently energizing and de-energizing said solenoid, and a second switch means for applying power to said circuit, said thermostat comprising means for disconnecting said power from said circuit upon reaching a predetermined temperature.

2,640,908

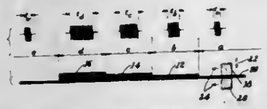
MACHINE FOR PROGRESSIVELY BONDING SHEET MATERIAL

Edward Sohier Welch, Jr., Framingham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application November 7, 1947, Serial No. 784,738
5 Claims. (Cl. 219—47)

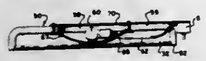
1. In progressive bonding apparatus adapted for seaming together articles of thermoactive

sheet material or materials coated with thermoactive adhesives during the process of which are encountered varying numbers of sheets in stacked relation, electrode means adapted for relative movement toward and away from each other and between which the work may be advanced, means for relatively separating and bringing together said electrode means to bear mutually against the work intermittently, means cooperative with said latter means for advancing the



work during periods when one of said electrode means is apart from the work, high-frequency voltage supply means connected to said electrode means, means for rendering said supply means operative when said electrode means are brought together, and means for rendering said supply means inoperative before said electrode means are separated and after a time interval determined automatically by means responsive to the distance between said electrode means.

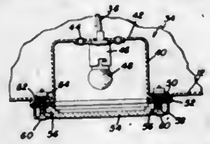
2,640,909
ILLUMINATED MIRROR
Grace M. Montgomery, Inglewood, Calif.
Application August 19, 1947, Serial No. 769,554
2 Claims. (Cl. 240—4.2)



1. A device of the type described, comprising: a substantially cup-shaped member of transparent light conducting material presenting an annular, planar edge face at the open end thereof and having an opening formed in the transverse wall thereof; a relatively flat mirror mounted within and closing the open end of said member and encircled by said annular edge face; said mirror being held in a plane substantially parallel to the plane of said annular edge face; a rearwardly facing light reflecting element mounted to the inner face of said transverse wall and disposed intermediate the latter and said mirror; an incandescent lamp mounted adjacent said reflecting element and contiguous to said opening whereby light rays emanating from said lamp are reflected rearwardly into said opening; opaque means carried by the outer face of said transverse wall and closing the opening therein, whereby a substantial part of the light rays entering said opening pass into the light conducting material of said member through the defining edges of said opening and are conducted by internal reflection through the material of said member to the annular edge face thereof wherefrom said rays are projected into the field of view of said mirror; and means carried by said member for detachably securing the same to the sun visor of a motor vehicle.

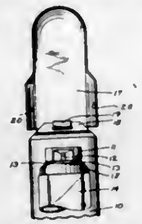
2,640,910
CLEARANCE LAMP FOR VEHICLES
Calvin C. Talley, Levelland, Tex.
Application September 25, 1950, Serial No. 186,627
1 Claim. (Cl. 240—7.1)

A lamp of the character described mounted on a support having an opening therein, comprising a housing mounted in the opening and projecting rearwardly from the support, said housing having an open front, an external flange on the front of the housing overlying the support, a gasket mounted on said flange and including an outer marginal portion engaged with the support and the free edge of said flange, a lens including an offset marginal flange seated on the inner marginal portion of the gasket, a rim of substantially U-shaped transverse section having its inner edge



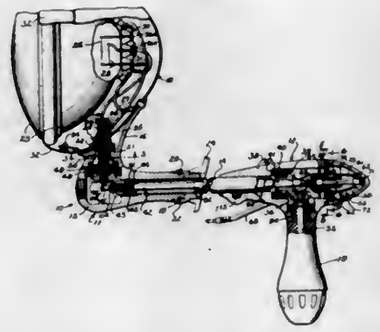
seated on the second named flange and its outer edge engaged with said outer marginal portion of the gasket, said support, the first named flange, gasket and rim having aligned openings therein, screws engaged in the aligned openings, and nuts threaded on said screws and engaged with the support for securing the assembly in position thereon with said outer marginal portion of the gasket under compression between the support, said outer edge of the first named flange, and said outer edge of the rim.

2,640,911
LIGHTING FIXTURE FOR ELONGATED TUBULAR FLUORESCENT LAMPS
Clyde D. McCann, Des Moines, Iowa
Application June 26, 1950, Serial No. 170,338
1 Claim. (Cl. 240—51.11)



In a lighting fixture having a fluorescent tube as a lighting element therein, an elongated frame having a flat base and with the upper edges rounded, brackets secured to the ends of said frame near the base and extending away from each end of said frame; said brackets having elongated slots therein that extend parallel to the ends of said frame, means near each end of said frame on the top of it for supporting a fluorescent tube; said frame being substantially wider than a fluorescent tube, a pair of caps that are closed on three sides and one end and are open on one side and one end, a tongue formed on one of said closed sides opposite to the open side of said caps and adjacent to the open ends of said caps, said tongue being bent back upon itself and through the slots in said brackets to form a hinged connection therewith, said caps being broader for substantially the half of their lengths which are nearest to said tongue, and bosses formed on the inside of each side of the broader section of each of said caps; said frame having boss receiving depressions formed therein; said caps where said broader portions terminate forming shoulders that engage the top of the frame on each side of said tube supporting means.

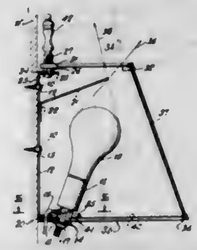
2,640,912
DOUBLE BEAM AUTOMOTIVE SPOTLIGHT
Nils A. Tornblom, Chicago, Ill., assignor to Appleton Electric Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1949, Serial No. 103,706
4 Claims. (Cl. 240—61.13)



1. A spotlight of the character set forth comprising, in combination, a supporting tube, a lamp head fitting fixed to one end of said supporting tube, a lamp housing mounted on said lamp head fitting for swivel movement about an axis perpendicular to said supporting tube, a prefocused lamp having a spot filament and a flood filament, said lamp also having an integral lens and reflector, terminals within said lamp housing, means for detachably securing said lamp in said housing in registry with said terminals, a switch head fitting fixed to the opposite end of said supporting tube, an adjusting handle journaled in said switch head fitting and insulated therefrom; a hollow drive shaft insulated from the supporting tube of said spotlight, a first driving means connecting said handle and said drive shaft, a second driving means connecting said lamp housing and said drive shaft, electrical connections between said second driving means and one of said lamp filaments, an axial conductor housed within said drive shaft but insulated therefrom, a headed conducting pin housed within said second driving means but insulated therefrom, means connecting said conducting pin with the other of said lamp filaments, and switch means for energizing either of said lamp filaments selectively via the alternative paths of which said drive shaft and said axial conductor respectively comprise integral links.

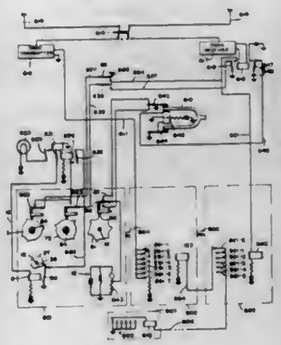
2,640,913
WALL LAMP
William F. Little, Yonkers, N. Y., assignor to Electrical Testing Laboratories, Inc., New York, N. Y., a corporation of New York
Application November 15, 1950, Serial No. 195,812
6 Claims. (Cl. 240—73)

1. A wall lighting fixture comprising two separable units, the first unit including a relatively narrow, vertically extending back strap having means to secure it to a wall, an upwardly extending lamp socket and incandescent lamp bulb in front of the strap and supported from the bottom of the strap, the second unit being detachable from the first and including a shade having a vertical rear frame adjacent the wall with side portions spaced laterally from the strap and top and bottom frame members extending forwardly from the upper and lower ends of the rear frame



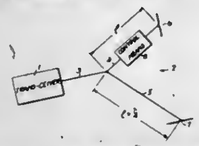
side portions and wall above and below the lamp bulb, and screening material carried by the side portions of the rear frame and by the top and bottom frame members to shield the lamp bulb.

2,640,914
DUPLEX TELEGRAPHY SYSTEM UTILIZING BAND COMPRESSION
Louis M. Potts, deceased, late of Evanston, Ill., by Martha W. C. Potts, executrix, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application June 18, 1947, Serial No. 755,445, now Patent No. 2,579,612, dated December 25, 1951. Divided and this application November 5, 1948, Serial No. 58,503
16 Claims. (Cl. 250—8)



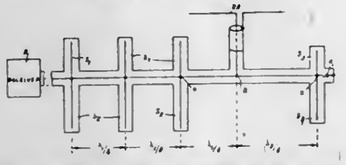
14. In a telegraph communication system, a pair of stations interconnected by a signalling channel, means at each station for simultaneously generating intelligence signals of a predetermined time duration, a plurality of electrical storage circuits at each of the stations, means for energizing the storage circuits in accordance with each signal generated at each respective station, a transmitting device at each station adapted to apply signals to the signalling channel, means at each station for sequentially connecting the electrical storage circuits to the respective transmitting devices during a period of time less than one-half said predetermined time duration, means for alternatively operating the sequentially operable means at one station to transmit a compressed signal and then the sequentially operable means at the other station to transmit a compressed signal.

2,640,915
CIRCULARLY POLARIZED ANTENNA ARRANGEMENT FOR RADAR
William Sichak, Lyndhurst, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 28, 1950, Serial No. 203,054
9 Claims. (Cl. 250—13)



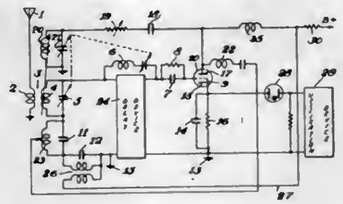
1. A circularly polarized antenna arrangement for a radar transmitter and receiver comprising a first antenna element providing radiant action in a given plane of polarization, a second antenna element providing radiant action in a plane of polarization substantially at right angles to said given plane, a transmitter producing pulses of relatively high amplitude, a receiver for receiving pulses which are of relatively lower amplitude, means coupling said transmitter and receiver to said antenna elements, said means providing two transmission paths, one of said paths being an odd multiple of quarter wave lengths longer than the other of said paths and means coupled in one of said paths for varying the effective length by an odd multiple of half wave lengths thereof, said varying means including a switching device operative in response to the higher amplitude of the transmitted pulses and unresponsive to the lower amplitude of the received pulses.

2,640,916
FILTER ARRANGEMENT FOR COMBINED RADIO RECEIVING AND TRANSMITTING SYSTEMS
Dennis Clark Espley, North Wembley, England, assignor to The General Electric Company, Limited, London, England
Application July 13, 1949, Serial No. 104,471
In Great Britain July 27, 1948
7 Claims. (Cl. 250—13)



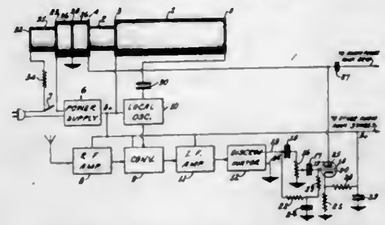
1. In a combined radio receiving and transmitting system including transmitting and receiving aerials for transmitting at a mean wavelength λ_1 and receiving at a mean wavelength λ_2 respectively, and subject to have cross fire occur between said transmitting and receiving aerials, a receiver apparatus comprising: a receiver; a filter network coupled to said receiver; a feeder coupled between said filter network and said receiving aerial and in which the impedance presented to a point in said feeder at the wavelength λ_2 by said receiver is substantially infinite; a transmission line of electrical-length substantially equal to $a\lambda_2/4$, where a is an integer which may be unity, connected at one end to said point in said feeder; and an impedance structure connected at the other end of said transmission line and including a pair of stubs of such physical size and position with respect to said point and to each other that said structure has at said wavelength λ_1 an impedance which is substantially a pure resistance equal to the characteristic impedance of said transmission line and has substantially zero impedance at the said wavelength λ_2.

2,640,917
AMPLIFIER AND RECEIVER SYSTEM
Edward D. Phinney, Crestwood, and Robert S. Bailey, New York, N. Y., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 22, 1948, Serial No. 55,856
16 Claims. (Cl. 250—20)



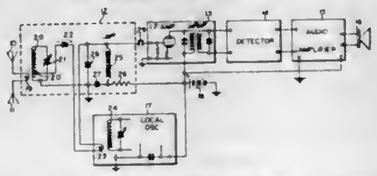
1. In an electrical system, a translating device, means conditioning said device to pass energy therethrough while performing a first function thereon, means for applying energy to the input of said device for operation thereon by said device according to said first function, means for repeatedly feeding back energy in successive separate operations from the output of said device to the input thereof for further operations thereon according to said first function and means electrically coupled to said device and responsive to a characteristic of said energy resulting from the repeated translation of said energy through said device, for varying said conditioning to cause said device to pass energy therethrough while performing a second function on said energy.

2,640,918
AUTOMATIC FREQUENCY CONTROL
Chandler Wentworth and Hugh L. Donley, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 9, 1950, Serial No. 148,694
9 Claims. (Cl. 250—20)



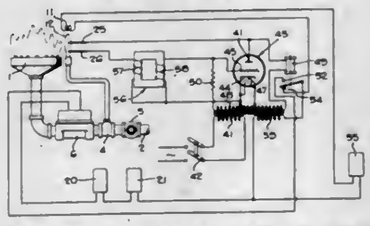
1. In a radio receiver, signal-responsive means for producing an output voltage in response to a slow change, from a predetermined frequency, in the frequency of the signal fed thereto, a controllable-frequency generator in said receiver for varying the frequency of the signal fed to said means, a capacitive element the capacitance of which varies with the temperature thereof, a main electrical heater element in intimate thermal contact with said capacitive element, means responsive to said produced voltage for controlling the current through said heater element, means coupling said capacitive element to said generator, the arrangement being such that the frequency of said generator is controlled, thereby varying the frequency of the signal fed to said signal-responsive means, in response to variations in capacitance of said capacitive element, an auxiliary heater element spaced from said main heater element and in intimate thermal contact with said capacitive element, means for causing energization of said auxiliary heater element in response to deenergization of said receiver, a dielectric element interposed between said main and auxiliary heater elements, and means for utilizing the capacitance provided by said dielectric element as a radio frequency bypass capacitor in said receiver.

2,640,919
WAVE SIGNAL FREQUENCY-CHANGING SYSTEM WITH CONSTANT CURRENT BIASED FREQUENCY CHANGING DEVICE
John F. Bell, Glenview, and Roger M. Nordby, Skokie, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application December 12, 1950, Serial No. 200,457
5 Claims. (Cl. 250—20)



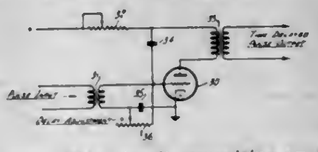
5. In combination: a two-element, predominantly unidirectionally conductive device of the crystalline type having a non-linear voltage-current characteristic; and a source of constant current, comprising a source of potential and a series impedance having a value very much greater than the operating impedance exhibited by said crystal device, connected in series with said device for establishing a static bias current therein to fix the operating point of said device at a particular part of its aforesaid characteristic.

2,640,920
SAFETY FUEL BURNER CONTROL SYSTEM UTILIZING FLAME CONDUCTION
Fred E. Cairns, Jr., North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application July 9, 1949, Serial No. 103,768
2 Claims. (Cl. 250—27)



1. In a control device: an electronic emission device having a cathode, a control electrode and an anode; means impressing an alternating electromotive force between the cathode and anode; means supplying an alternating electromotive force between the cathode and the control electrode in such direction as to reduce the output current between the anode and the cathode; said latter means including a resistor; a saturable core reactor paralleling said latter means that supplies an alternating electromotive force between the cathode and the control electrode; a circuit responding to a condition for saturating the reactor core, said circuit including a pair of electrodes between which a current may pass; and load means operated by the space current of the electronic emission device.

2,640,921
PULSE TYPE MULTIPLEX COMMUNICATION SYSTEM
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application July 17, 1943, Serial No. 495,181, now Patent No. 2,478,919, dated August 16, 1949. Divided and this application May 28, 1949, Serial No. 96,124
24 Claims. (Cl. 250—27)

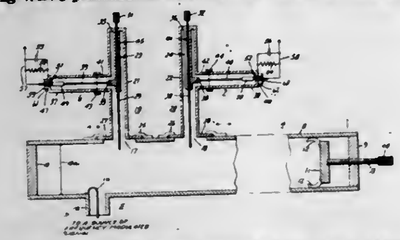


1. A pulse delay circuit comprising an electric tube having a grid, an anode and a cathode, an input circuit connected between said grid and cathode, said input circuit including in series therewith a condenser shunted by a resistor, a transformer having a primary winding connected between said anode and the positive terminal of a source of unidirectional polarizing potential, and a secondary winding coupled to an output circuit, the constants of said circuit being such that said tube normally passes anode current in the absence of a pulse applied to said input circuit, and a condenser connected between said cathode and that terminal of said primary winding farthest away from said anode, whereby the application of a pulse to said input circuit charges said first condenser to bias said tube to cut-off, thereby permitting a charge to build up on said second condenser discharging across said tube when the charge on said first condenser leaks off, as a consequence of which an output pulse is produced in said transformer.

2,640,922
FREQUENCY RESPONSE SYSTEM
Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 26, 1949, Serial No. 106,842
2 Claims. (Cl. 250—27)

1. Apparatus for producing a signal responsive to frequency deviations from a given center frequency comprising an elongated cavity resonator, one end wall of said resonator comprising a reflective member and the opposite end wall comprising an absorptive member, means for coupling energy into said resonator at an intermediate point along its length so that energy is reflected by said reflective member and absorbed by absorptive member, a pair of probe means

separated along the length of said cavity resonator by substantially one-fourth wave length at said center frequency to provide a continuing differential signal from said probe means to detect the shift in magnitude and direction of the standing wave pattern in said cavity due to a change in



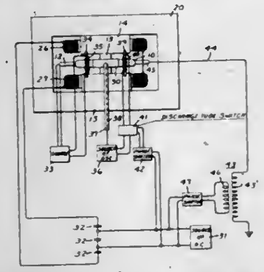
frequency of the energy coupled into said resonator, said probe means located a distance equivalent to several wave lengths at said center frequency from said reflective wall to detect large changes in signal for small variations of frequency.

2,640,923

SYSTEM AND APPAPATUS FOR OBTAINING A BEAM OF HIGH ENERGY ELECTRONS FROM CHARGED PARTICLE ACCELERATORS

Herbert C. Pollock, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application March 31, 1950, Serial No. 153,241
10 Claims. (Cl. 250—27)



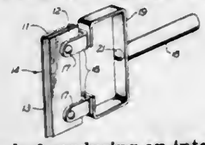
4. A system for producing a beam of high energy electrons comprising magnetic induction accelerator means for accelerating electrons in an orbital path including means providing an alternating magnetic flux which links said path to accelerate said electrons and means providing an alternating magnetic guide field which traverses said path to constrain said electrons thereto, high frequency electrodes for imparting further energy to said electrons in said orbital path after acceleration to approximately the velocity of light by said alternating flux, oscillator means for energizing said electrodes in timed correlation with said alternating field, means for deenergizing said oscillator means and said electrodes in timed correlation with said alternating field whereby said electrons may be diverted from said orbital path into spiral paths, and electric field producing means for ejecting said electrons from said orbital path, said last-named means being in timed correlation with said alternating magnetic field to produce an electric field having an amplitude and phase dependent upon the variations of said alternating magnetic field.

2,640,924

ACCELERATOR TARGET

Edwin M. McMillan, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application January 5, 1951, Serial No. 204,562
7 Claims. (Cl. 250—27)



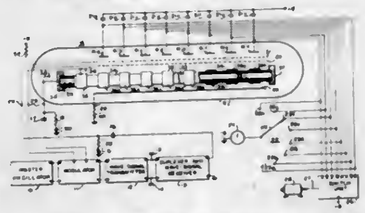
1. A method of producing an intense divergent X-ray beam comprising electrostatically accelerating an electron beam, constraining said electron beam to traverse an orbital path of substantially constant radius during acceleration thereof by the application to said beam of an increasing magnetic field at right angles to the direction of travel thereof, removing the electrostatic accelerating influence from said beam when said beam has more than a desired energy and continuing the application of said increasing magnetic field to said beam whereby the radius of the orbital traverse of said beam decreases, substantially reducing the energy of said beam by ionization loss at a point in its traverse whereby the focus of said beam is relatively undisturbed and said beam is deflected thereby, and striking a thick target with said focused and deflected beam at a substantially decreased ion beam orbit radius from the electron beam orbit radius directly prior to the electron beam energy loss whereby an intense divergent X-ray beam is produced without interference from previous orbital electron beam traverses.

2,640,925

ELECTRON DISCHARGE SIGNAL-SAMPLING DEVICE

Charles J. Hirsch, Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application April 9, 1952, Serial No. 281,353
14 Claims. (Cl. 250—27)



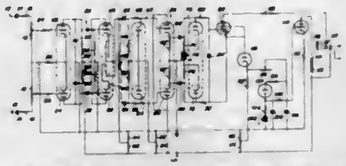
1. An electron-discharge signal-sampling device comprising: first terminals for supplying a signal to be sampled; second terminals for supplying a control pulse; an elongated first control electrode coupled to said first terminals; an elongated electrostrictive time-delay signal-translating device coupled to said second terminals and having a plurality of spaced pick-off electrodes for developing successive sampling pulses and comprising effectively electrically isolated space-current control electrodes; and an elongated cathode common to said first control electrode and said isolated control electrodes and cooperating therewith to cause space-current flow representative of successive samples of said signal.

2,640,926

AUTOMATIC RELEASE AND RESET SYSTEM

William Ieu-Liang Wu, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Navy

Application July 4, 1944, Serial No. 543,494
6 Claims. (Cl. 250—27)



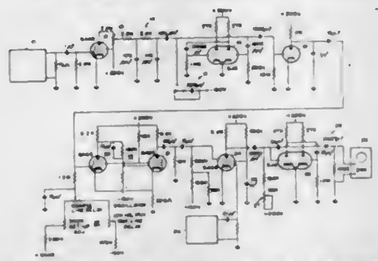
1. In a discriminating circuit arranged to operate in response to input signals of a chosen minimum peak amplitude and a chosen frequency range, means for actuating a load only when an input signal of the chosen characteristics is received, said means including at least two differentiating circuits having time constants differing by an amount such that the difference in amplitudes of the differentiated output potentials in response to the same input signal is appreciable only when the input signal is of the chosen characteristics, and means for adding said differentiated potentials algebraically and applying the resultant potential to the load.

2,640,927

SYSTEM FOR STUDYING ELECTRICAL WAVES

Alton Le Roy Olson, Hackensack, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware

Application May 16, 1951, Serial No. 226,694
2 Claims. (Cl. 250—27)



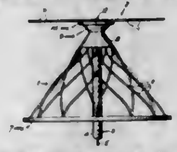
1. An electrical circuit comprising a source of electrical impulses; a generator of a sawtooth wave voltage, said generator being connected to said source and synchronized by said impulses; a bi-stable oscillator connected to said generator and triggered by said sawtooth voltage, the output voltage of said oscillator having a rectangular waveform, said oscillator having an adjustable bias source to set the time of triggering of said oscillator with respect to the starting time of said sawtooth wave; a differentiating circuit connected to said oscillator to differentiate said rectangular wave; a source of positive electrical impulses; a gate circuit having one input circuit connected to said second source and a second input circuit connected to said differentiating circuit, said gate circuit being biased to have an output voltage signal only when a positive output signal from said differentiating circuit coincides with a positive pulse from said second source; and a single-shot multivibrator connected to said gate circuit to be triggered by said output voltage therefrom, said multivibrator having a duty cycle adjustment.

2,640,928

CIRCULARLY POLARIZED BROAD BAND ANTENNA

Armig G. Kandoian, Glen Rock, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application December 24, 1949, Serial No. 134,902
8 Claims. (Cl. 250—33)



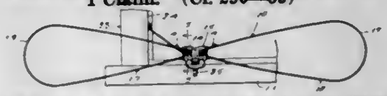
1. In a wide band antenna including a generally conical element and a generally disc-shaped element mounted adjacent to but spaced from the apex of said conical element having a normal single polarization effect, a construction to provide circular or elliptical polarization effects, comprising a plurality of individual conductors to outline the surface of one of said elements, said conductors being curved to follow a non-rectilinear path from the center of the surface of said one element to the outer edge of the element to introduce a polarization component at right angles to the normal polarization effect.

2,640,929

TELEVISION ANTENNA

Michael D. Ercolino, Wanamassa, N. J.

Application May 23, 1950, Serial No. 163,720
1 Claim. (Cl. 250—33)



A television antenna comprising a mast formed of a pair of outwardly convergent supporting members, one of said members being substantially horizontal and the other of said members being inclined upwardly and inwardly, a right angular fitting having a horizontal side secured to the convergent ends of said members, an insulating plate fixed to the vertical side of said fitting, a pair of oppositely disposed looped dipoles, a pair of clamping plates formed with inwardly opening channels in which the inner ends of said dipoles engage, upper and lower flanges carried by said latter plates engaging over the upper and lower edges of said insulating plate, and means securing said pair of plates to said insulating plate.

2,640,930

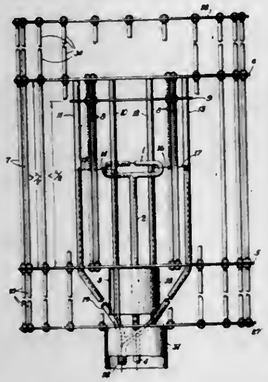
ANTENNA ASSEMBLY

Frank J. Lundburg, East Orange, and Francis X. Bucher, Nutley, N. J., assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application January 12, 1950, Serial No. 138,138
15 Claims. (Cl. 250—33.51)

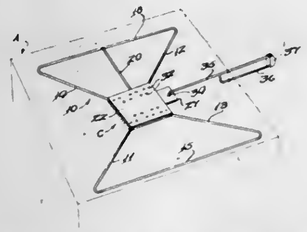
1. A radio antenna assembly comprising a radiating dipole antenna of small length rela-

tive to half a wave length at the operating frequency to provide a directive figure-of-eight pattern, a resonator effectively open to radiation



about one periphery thereof effectively enclosing said antenna, and an omnidirectional antenna mounted symmetrically about said dipole antenna.

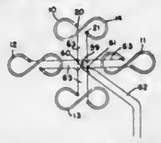
2,640,931
DIRECTIONAL ANTENNA
John J. Root, New York, N. Y.
Application May 5, 1950, Serial No. 160,349
3 Claims. (Cl. 250—33.51)



1. A television antenna system comprising a pair of dipoles crossed so as to be effective in substantially mutually perpendicular directions, variable condenser means comprising two stator plates respectively connected to a pair of inner ends of said dipoles and a slidable plate in capacitative relationship to said stator plates for electrically rotating the directional characteristics of said dipoles, a first bridging element between the two adjacent outer ends of said dipoles, a second bridging element between the other pair of inner ends of said dipoles and a connecting element between said first and second bridging elements and substantially perpendicular thereto.

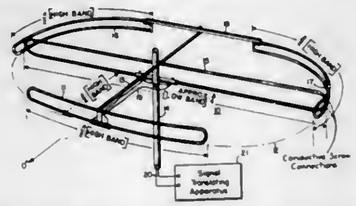
2,640,932
ANTENNA
William E. Robbins, Paynesville, Minn., assignor to Clifford R. Myre, Paynesville, Minn.
Application February 15, 1950, Serial No. 144,237
13 Claims. (Cl. 250—33.53)

9. In an antenna, a conductor formed in the configuration of a letter S with the ends of the conductor in juxtaposition near the center of the configuration and insulated from one an-



other and a twin lead transmission line connected to the extreme ends of said conductor.

2,640,933
DUAL RANGE ANTENNA
Joseph C. Spindler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application December 12, 1950, Serial No. 200,378
5 Claims. (Cl. 250—33.65)

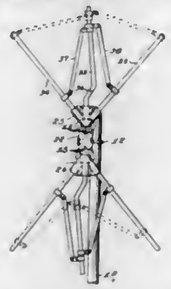


1. An antenna operable within two frequency ranges spaced from one another in the frequency spectrum comprising: a first dipole having an effective electrical length of substantially one-half wave length at the center frequency of the higher one of said frequency ranges; a second dipole having an effective electrical length less than one-half wave length at the center frequency of the lower one of said frequency ranges, electrically connected to and disposed essentially parallel to said first dipole and effectively spaced therefrom by a distance substantially equal to one-quarter wave length at the center frequency of the higher one of said frequency ranges; a pair of end-loading elements, each electrically connected to one extremity of said second dipole and extending therefrom in a general direction away from said first dipole and toward the other of said elements, having lengths to constitute together with said second dipole a resonant antenna element at the center frequency of the lower one of said frequency ranges and to operate as reflector elements for said first dipole; and means for coupling said dipoles with signal-translating apparatus.

2,640,934
TELEVISION ANTENNA
Antonio Lago, Bayonne, N. J.
Application May 11, 1951, Serial No. 225,816
5 Claims. (Cl. 250—33.65)

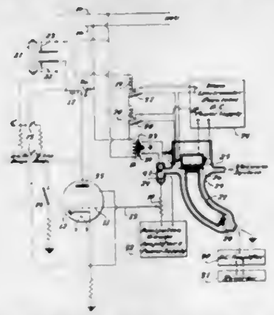
5. A receiving assembly for a television antenna array comprising a plate of electrically insulative material adapted to be supported by an antenna mast, brackets of electrically conductive material mounted on said plate at spaced apart locations thereon and providing rod end receiving sockets, rods of electrically conductive material supported at their ends one in each socket and projecting outwardly from the corresponding brackets, the rods carried by each bracket including a center rod and side rods

disposed one at each of two opposite sides of said center rod and diverging from the latter in a direction away from the corresponding brackets, links of electrically conductive material disposed one between each side rod and the



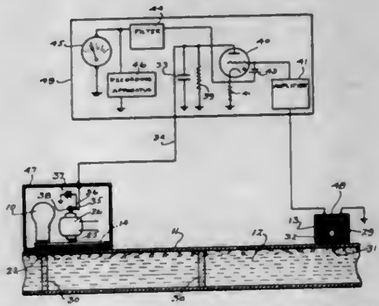
corresponding center rods, and electrically conductive means securing the ends of said links to the corresponding side and center rods and movable to different positions of adjustment along the latter.

2,640,935
MASS SPECTROMETER CONTROL
Stanford B. Spracklen, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application February 21, 1946, Serial No. 649,414
3 Claims. (Cl. 250—41.9)



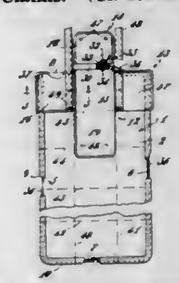
1. In mass spectrometer operating means, an envelope enclosing spectrometer elements and an ionization pressure gauge, means for supplying electrical energy to the spectrometer elements, means for energizing the pressure gauge, a gaseous discharge tube having at least a cathode, an anode and a control grid, means for impressing on the control grid a voltage corresponding to the pressure to which said gauge is subjected, switch means for selectively impressing upon the cathode two different biasing voltages of such values with respect to the control grid that the voltages required on the control grid to fire the tube correspond, respectively, to a pressure at which the elements of the spectrometer may safely be energized and to a lower pressure below which consistent operation of the spectrometer at the desired spectrometer sensitivity can be had, and a normally closed switch in the anode circuit of the tube and in parallel with said switch means when said switch means is in the position for consistent operation, whereby upon a pressure rise causing the tube to fire said switch means must be moved from consistent operation position in order to deionize the tube.

2,640,936
METHOD AND APPARATUS FOR INDICATING THE MOVEMENT OF MATERIAL
Wolf Szmul Pajes, New York, N. Y.
Application February 7, 1950, Serial No. 142,855
16 Claims. (Cl. 250—43.5)



1. Apparatus for obtaining information about material moving in a predetermined path which comprises means spaced from said path and out of contact with said material for creating radioactive isotopes in a confined region of said material as it passes a first point in said path, means for detecting radiation from said isotopes as said isotopes pass a second point in said path, spaced in the direction of movement of said material from said first point, means controlled by said detecting means for registering each operation of said detecting means, means including said registering means for measuring the time displacement between the creation of the isotopes and the detection of the radiation, and means for utilizing the result obtained by said measuring means for determining the rate of movement of the material.

2,640,937
PROTECTOR
Kenneth J. D. Munday, Boston, Mass.
Application July 5, 1951, Serial No. 235,319
6 Claims. (Cl. 250—108)



1. A protector from the radiant energy of an atomic explosion comprising a foldable blanket comprising material impervious to said radiant energy, and a cover fast to the marginal portion of the blanket at one end and intermediate the side edges of the blanket, the cover comprising

pairs of opposed flaps extending in directions transversely and longitudinally of the blanket, respectively, each of the flaps having three free edges and being foldable about the blanket when folded to envelop the blanket, the flaps of one of said pairs having cooperating fastening means for releasably holding the flaps in folded position about the folded blanket.

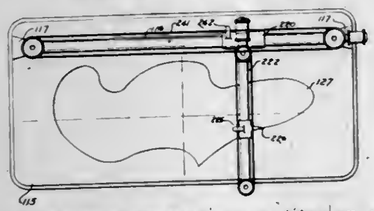
2,640,938

FREQUENCY GENERATOR FOR MACHINE CONTROL SYSTEMS

Leif E. de Neergaard, Buffalo, N. Y., assignor to Actrol, Inc., Tuckahoe, N. Y., a corporation of Delaware

Application April 10, 1947, Serial No. 740,688, now Patent No. 2,552,622, dated May 15, 1951, which is a division of application Serial No. 460,955, October 6, 1942, now Patent No. 2,423,440, dated July 8, 1947. Divided and this application April 27, 1951, Serial No. 227,857

4 Claims. (Cl. 250—219)



1. A frequency generator comprising an arm, a source of light flux and a light flux responsive element in fixed relation to each other and translatable along said arm, said element being responsive to variations in light flux incident thereon by variations in an electrical characteristic of the element, a member extending linearly parallel to said arm and subject to said light flux, and means for moving said member with respect to said arm, said member having periodically disposed along its length regions of diverse transmissibility for said light flux, the shape and motion of said member being adapted to vary periodically the light flux reaching said element at any given position of the element along the arm, thereby to produce a constant frequency of change in the said electrical characteristic of the element while said light source and element are stationary on said arm and variations from said frequency corresponding to motion imparted to said source and element along said arm.

2,640,939

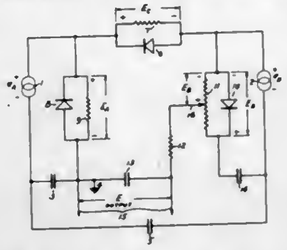
PHASE DETECTOR

Leo Staschover, Jamaica, and Lawrence Rosenberg, Elmhurst, N. Y., assignors to International Standard Electric Corporation, New York, N. Y.

Application February 11, 1950, Serial No. 143,739

12 Claims. (Cl. 307—77)

9. A phase detector for providing a voltage, varying with the phase angle between voltages from two alternating current energy sources each source having two output terminals, comprising means for coupling one output terminal of each of said sources effectively at ground potential at the operating frequency, a first network comprising a parallel connected resistor and rectifier coupled between the other terminals of said sources to derive a first direct current voltage equivalent to the vector sum of said energies, a second network comprising a parallel connected resistor and condenser coupled between the terminals of one of said sources to derive a second direct current voltage equivalent to the magnitude of energy from said source, with the rectifier of said second network coupled in opposition to the rectifier of said first network, whereby the direct current voltages will oppose one another, a series resistor condenser network coupled between said networks to provide a direct current combination of said first and second voltage, and output terminals for said detector connected across said condenser.



2,640,940

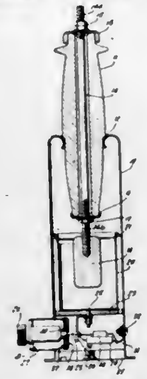
HIGH-FREQUENCY ELECTRIC POTENTIAL DIVIDER

Arthur Edward Charles Bennett, Kenton, England, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware

Application March 12, 1952, Serial No. 276,139

In Great Britain March 14, 1951

9 Claims. (Cl. 307—109)



1. A high-frequency high voltage potential divider comprising a hermetically sealed metallic container filled with a liquid insulating material, a pair of spaced electrodes within said container to provide a high voltage capacitor section, high voltage terminal means insulatingly passing through said container and connected to one of said electrodes, a solid-dielectric low voltage capacitor section in said container having one terminal connected to the other of said electrodes and having its opposite terminal connected to said casing, and low voltage terminal means insulatingly passing through said container and connected to the junction between said high voltage and low voltage capacitor sections.

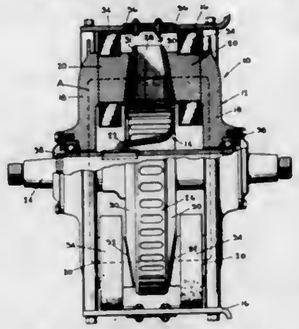
2,640,941

EDDY CURRENT MECHANISM

Martin P. Winther, Gates Mills, Ohio, assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 18, 1951, Serial No. 206,642

8 Claims. (Cl. 310—93)



1. An eddy current electromagnetic mechanism comprising a rotor provided with a pair of axially spaced annular wall portions, each having an annular braking surface oppositely disposed to one another and converging radially outwardly toward one another, and having a plurality of air passages intermediate the wall portions, and a stator cooperable with the rotor including a plurality of sets of circumferentially spaced pair of opposite polarity magnetic pole members, the members of each set being axially spaced from one another on opposite sides of the rotor in predetermined spaced relation to the respective annular braking surfaces.

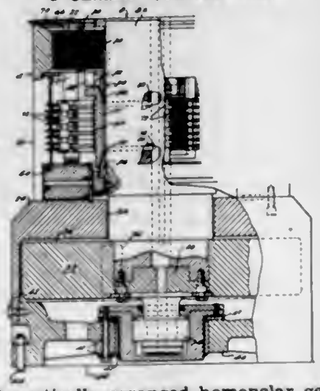
2,640,942

HOMOPOLAR DYNAMOELECTRIC MACHINE

James V. Caputo, Youngstown, Ohio, and Thomas J. Crawford, Berkley, Mich.; said Crawford assignor to said Caputo

Original application October 16, 1947, Serial No. 780,170, now Patent No. 2,600,844, dated June 17, 1952. Divided and this application October 22, 1951, Serial No. 252,552

5 Claims. (Cl. 310—178)



2. A vertically arranged homopolar generator comprising a stationary flux-conducting member and a rotatable flux-conducting member providing a closed flux path, means providing a first flux path portion including a vertically extending non-magnetic portion, a flux-conducting member carried by said rotatable flux-conducting member and arranged in underlying relationship with said stationary flux member to provide a second path portion in parallel circuit with said first path portion, said second path portion including a vertical gap, the reluctance of said second flux path portion from said stationary flux member through said last-named flux-conducting member across said gap to said rotating flux-conducting member being so related to the reluctance of said first path portion that the flux flowing through said last-named flux-conducting member and across said gap will at least partially support the weight of said rotatable flux-conducting member.

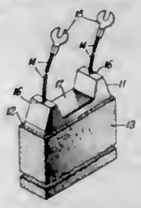
2,640,943

RESILIENT PAD FOR ELECTRICAL CONTACT BRUSHES

Fred Gordon Roberts, Lakewood, Ohio, assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application January 4, 1951, Serial No. 204,325

2 Claims. (Cl. 310—249)



1. An electrical contact brush, at least one cable shunt extending from the end face of the holder end of said brush, and a resilient pad, said resilient pad being disposed on the end face of the holder end of said brush, each said cable shunt extending through and being gripped by said resilient pad, said resilient pad having a surface against which the spring finger of a brush holder can bear.

2,640,944

ELECTRICAL CONTACT BRUSH

Dimiter Ramadanoff, Berea, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application June 4, 1949, Serial No. 97,315

2 Claims. (Cl. 310—253)

1. An electrical contact brush comprising carbon and not more than 10 percent by weight finely divided silver, said silver being distributed uniformly throughout said brush.

2,640,945

INTRODUCTION OF ACTIVE MATERIALS INTO EVACUATED ENVELOPES

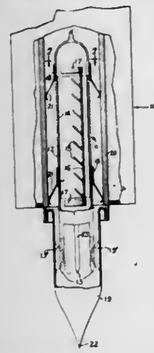
Willis E. Harbaugh, Bareville, and Lloyd P. Garner, Lancaster, Pa., assignors to Radio Corporation of America, a corporation of Delaware

Application February 1, 1950, Serial No. 141,648

8 Claims. (Cl. 313—177)

3. An electron discharge device, comprising an evacuated envelope, a tubular conducting lead-in sealed through said envelope and extending

into the same with its interior in communication with the interior of said envelope, a soft metallic exhaust tubulation connected to the outer end of said lead-in, a normally gastight getter container in said lead-in and having a plurality of



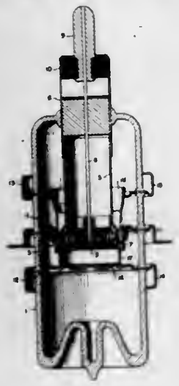
frangible portions, said frangible portions extending into said exhaust tubulation for a substantial distance whereby at least one of said frangible portions is broken when said exhaust tubulation is deformed intermediate its ends.

2,640,946

ULTRAHIGH-FREQUENCY THERMIONIC VALVE

James Bell, Pinner, England, assignor to The M-O Valve Company Limited, London, England

Application November 13, 1951, Serial No. 255,896
In Great Britain November 20, 1950
2 Claims. (Cl. 313—255)



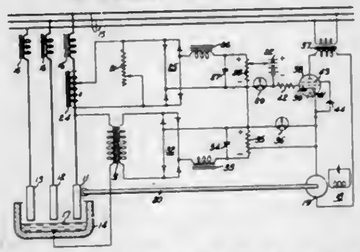
1. A triode valve comprising a thermionic cathode, a cylindrical grid disposed around the cathode, a cylindrical anode disposed around the grid, an envelope of insulating material containing the cathode, grid and anode, a first metal disc sealed through the envelope and electrically connected to the anode and second and third metal discs sealed through the envelope respectively on opposite sides of the first disc and electrically connected respectively to opposite ends of the grid.

2,640,947

ELECTRODE SPACING REGULATOR UTILIZING A NONLINEAR REFERENCE IMPEDANCE DEVICE

Didier Journeaux, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Original application March 8, 1947, Serial No. 733,343, now Patent No. 2,539,912, dated January 30, 1951. Divided and this application July 1, 1950, Serial No. 171,771
11 Claims. (Cl. 314—64)



1. In a control system for a pair of relatively movable electrodes between which current is flowing in the form of an arc having a predetermined nonlinear volt-ampere characteristic when the spacing between said electrodes has the desired value, the combination of a motor for controlling the spacing of said electrodes, a resistor having a nonlinear volt-ampere characteristic, means for supplying to said resistor a current proportional to the current flowing through said electrodes, a source of constant voltage, means for connecting said source and said resistor into a circuit having an output voltage related to said electrode current by a volt-ampere characteristic substantially matching said predetermined volt-ampere characteristic, and means responsive to the difference between said output voltage and a voltage proportional to the voltage across said electrodes for controlling the operation of said motor.

2,640,948

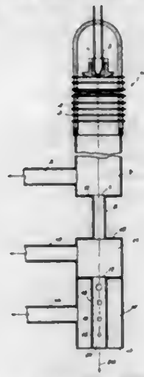
APPARATUS FOR UTILIZING A BEAM OF HIGH ENERGY ELECTRONS IN STERILIZATION AND IN THERAPY

Ernest A. Burrill, Natick, Mass., assignor to High Voltage Engineering Corporation, Cambridge, Mass., a corporation of Massachusetts

Application September 21, 1950, Serial No. 185,958
23 Claims. (Cl. 315—18)

1. Apparatus for sterilizing (i. e. irradiating) by the action of high-energy electrons, respective masses of substances, such as foods, drugs, medical and surgical supplies, cosmetics, packaging materials, etc. containing organisms to be destroyed by the action of a beam of high-energy electrons, and for use in cathode-ray therapy of malignant growths, comprising means for creating and directing a beam of high-energy electrons, said means including a high-vacuum acceleration tube-like envelope internally along which such beam of high-energy electrons is transmitted from its emanating source, and from which envelope said beam of high-energy electrons may be discharged into such respective substances for sterilizing (i. e. irradiating) the same, said high-vacuum envelope having a high-energy electron-beam exit "window" which is completely permeable to electrons without any loss of electron energy and which exit "window" for the electrons is in open communication with the

outer atmosphere and means to prevent impairment of the degree of vacuum in said main



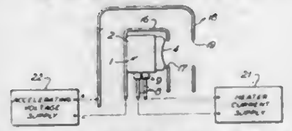
chamber, and to maintain as near a perfect vacuum as is customary in usual acceleration tubes, notwithstanding said unclosed exit opening.

2,640,949

ELECTRON SOURCE

Leslie J. Cook, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application February 7, 1951, Serial No. 209,768
6 Claims. (Cl. 315—31)



6. An electron source comprising a metallic envelope having a cylindrically concave surface thereon and a plurality of apertures therein along the line of maximum concavity, heating means interior to said envelope, an activating material about said heating means interior to said envelope and being volatile at the temperature of said heating means to slowly pass as a vapor through said apertures in the concave surface of said envelope and form a thin layer upon the exterior of said envelope adjacent said apertures and thereby in combination with said heated metal surface emit electrons, an electrode positioned from the concave surface of said envelope and having an aperture therein in substantial alignment with said concave surface, and power supply means impressing a potential between said electrode and said envelope with said envelope being electrically negative relative to said electrode whereby emitted electrons are focused into a beam and attracted away from said envelope through the aperture in said electrode.

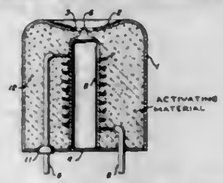
2,640,950

POINT ELECTRON SOURCE

Leslie J. Cook, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application June 6, 1951, Serial No. 230,125
11 Claims. (Cl. 315—31)

1. An improved electron source having a concave surface formed of poor electron emitting material, said concave surface having an aperture in the center thereof, an electron emitting element disposed within said aperture, an activating material about said electron emitting element, and means to continuously volatilize said



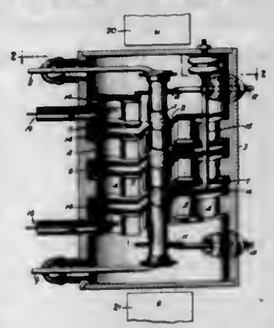
activating material and cause said volatilized activating material to flow through said aperture over said electron emitting element whereby an electron emission surface is formed on said electron emitting element and defined by the edges of the aperture in said concave surface.

2,640,951

MICROWAVE AMPLIFIER OF THE MAGNETRON TYPE

James Brown Horner Kuper, Bayport, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 25, 1949, Serial No. 101,421
5 Claims. (Cl. 315—40)



1. An electron discharge device for amplification of high frequency energy comprising an elongated electron emitting cathode, an anode including a plurality of cavity resonators located in helical formation about said cathode, said resonators being coupled together in series along said helical formation, means adjacent said cathode to produce a magnetic field axially of said source, plates insulated from said cathode and anode, positioned at the ends of said cathode to produce an electric field axially of said source whereby said electrons will follow helical paths about said source, and output coupling means for the resonator at one end of said helix.

2,640,952

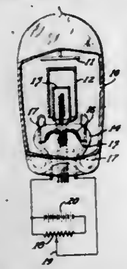
HYDROGEN PRESSURE CONTROL FOR HYDROGEN FILLED DISCHARGE TUBES

Henry T. Swanson, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application February 5, 1947, Serial No. 726,602
10 Claims. (Cl. 315—108)

2. An electric discharge device comprising a sealed envelope containing hydrogen, electrodes

within said envelope for establishing an electric discharge in said envelope, a filament mounted within said envelope, a coating of zirconium hydride on said filament, means connected to said filament for heating said filament to partially decompose the zirconium hydride of said coating to



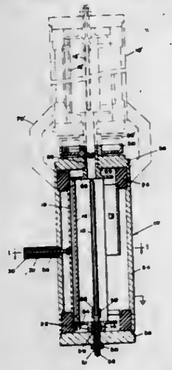
zirconium metal and to increase the amount of hydrogen within said envelope, said heating means including electric circuit means for providing energy at a constant rate to said filament whereby the evolution of hydrogen gas by said coating will be constant.

2,640,953

RADIATION CURRENT SOURCE

Harald H. Rossi, Orangeburg, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application June 6, 1950, Serial No. 166,489
2 Claims. (Cl. 315—150)



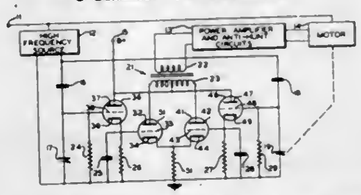
1. Apparatus for supplying minute currents over a wide range which comprises in combination a substantially cylindrical, gas filled, hermetically sealable chamber, a source of charged particle radiation axially disposed in said chamber, a first arcuate electrode fixedly mounted within said chamber and electrically insulated therefrom, said first electrode extending substantially the length of said chamber, a second electrically insulated arcuate electrode fixedly mounted within said chamber and diametrically opposed to said first electrode, said second electrode being substantially shorter than the length of said chamber, a third arcuate electrode rotatably mounted within said chamber and electrically connected thereto, said third electrode being rotatable between said radioactive source and said first and second electrodes, means external to said chamber for rotating said third electrode, and means for impressing a high potential between said radioactive source and said container whereby radiation emitted from said source produces ions in said chamber which are collected by said first and second electrodes and are intercepted by means of said third electrode.

2,640,954

CONDENSER SERVO MECHANISM

Chalmers W. Sherwin, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application January 15, 1946, Serial No. 641,347
5 Claims. (Cl. 318—29)



2. In an electrical positional control system, a circuit comprising two variable voltage dividers each including a rotatable variable capacitor in series connection with fixed capacitor, a source of high frequency alternating voltage modulated by a low frequency alternating voltage, means for applying said modulated voltage to each of said voltage dividers, electron tubes for detecting the modulation envelopes of the voltage impressed across said variable capacitors, two additional electron tubes having a common cathode coupling resistance connected as a difference amplifier for comparing the amplitudes of the aforesaid modulation envelopes, and a motor driven by the output voltage of said difference amplifier, whereby one of said variable capacitors is angularly positioned such as to make the voltages appearing across said variable capacitors substantially equal.

2,640,955

ELECTROMAGNETIC STRAIGHT-LINE MOTOR

Frederick C. Fisher, Bellmore, N. Y., assignor to Electronoid Corporation, New York, N. Y., a corporation

Application April 2, 1949, Serial No. 85,067
25 Claims. (Cl. 318—135)



1. A motive device comprising means defining companion magnetic fields, means defining a series of contiguous alternate magnetic fields of fixed polarity, said companion and alternate fields being disposed for interaction of the respective fields and for mutual relative motion, and means in circuit with said first mentioned means for changing the relative polarity of said fields in predetermined sequence whereby relative movement between both of said defining means is effected, said last mentioned means being operatively responsive to said relative movement.

2,640,956

SINGLE PHASE CAPACITOR MOTOR

Lloyd W. Buchanan, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 16, 1950, Serial No. 162,353
5 Claims. (Cl. 318—220)



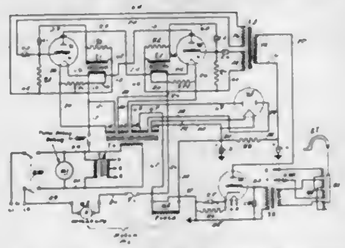
1. A single-phase induction motor having a stator member and a rotor member, the stator member including a slotted stator core, a main primary winding and an auxiliary primary winding disposed in the slots of the core and physically displaced from each other, a capacitor connected in series with the auxiliary primary winding, and magnetic slot wedges in the slots which contain the auxiliary winding.

2,640,957

CONTROL CIRCUIT FOR REVERSIBLE D. C. MOTORS

William D. Macgeorge, Collegeville, and Charles Cross, Philadelphia, Pa., assignors to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application April 18, 1950, Serial No. 156,688
2 Claims. (Cl. 318—257)



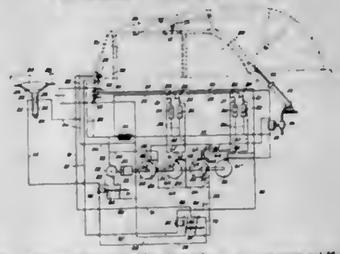
1. A D. C. motor regulating circuit comprising an electrical network, a D. C. motor having a field and an armature, circuit means in the network for energizing said field with D. C., a first and a second multi-element gas tube in the network, a first and a second line connection in the network supplying A. C. plate voltage of given phase to the respective tubes, one of said connections passing through said armature, circuit means in the network including a potentiometer for energizing the grid-cathode circuit of each of the respective tubes for heating the cathode and applying a variable A. C. grid bias to the respective tubes controlled by the respective potentiometers with the same phase as the plate voltage, signalling means in the network including a differential transformer comprising a hollow air-cored stator and a relatively movable core armature of variable axial positioning in the stator, said stator comprising a primary and secondaries so organized that the secondaries output is substantially null in one generally symmetrical disposition of the core armature in the stator with substantially no electrical pull therebetween, said differential transformer having an output of linearly increasing amplitude in both senses of relative departure of the core armature from its said substantially symmetrical position in the stator with signals of one or the opposite phase according to the sense of departure and with a phase predeterminedly out of phase with that of the A. C. grid bias, to maximum amplitudes thereof substantially without electrical pull between the stator and core armature, said signalling means impressing the differential transformer output signals in opposite senses simultaneously on the grids of the respective tubes whereby the bias of one tube is augmented and that of the other is modified to cause said other tube to fire to run said motor in the proper sense and at a speed functional with the sense and amplitude of differential transformer output.

2,640,958

MOISTURE CONTROLLED MOTOR SYSTEM FOR CLOSING AUTOMOBILE WINDOWS

Richard A. Davis, Miami Beach, Fla.

Continuation of abandoned application Serial No. 155,472, April 12, 1950. This application September 20, 1950, Serial No. 185,817
9 Claims. (Cl. 318—470)



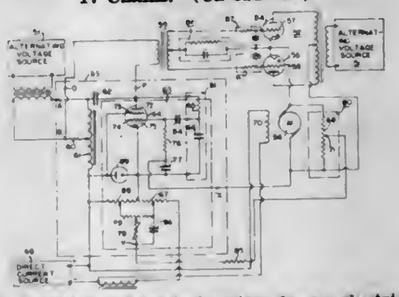
9. In an automobile having a convertible top and vertically movable windows, electrically actuated closing means for said top, similarly operated closing means for said windows, and manually operable switches for selectively closing the circuits to said several closing means in combination with an auxiliary switch in parallel with each of said manually operable switches, means for closing said auxiliary switches, a motor for operating said closing means, a switch interposed in the circuit to said motor and actuated by atmospheric precipitation for automatically closing said circuit and means for automatically breaking the circuit to said motor upon completion of the operation of the several closing means.

2,640,959

MOTOR CONTROL CIRCUIT

Walter J. Brown, Cleveland Heights, Ohio

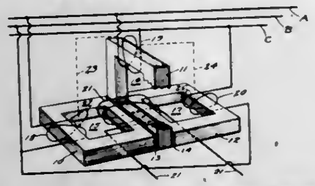
Application July 8, 1950, Serial No. 172,647
17 Claims. (Cl. 321—18)



1. An electrical control system for an electrical converter connected to an alternating current

source and having control means for varying its power output to an electrical load, comprising, a phase shifting network having a phase shiftable output voltage between first and second output terminals, means for connecting said first and second output terminals to said control means of said converter, two series-connected relatively variable reactive elements of opposite sign, means for energizing said serially connected elements from a reference voltage derived from said alternating current source, said first output terminal being at the junction of said elements so that as the impedances of said elements are varied relatively to one another, the locus of the potential of the first output terminal lies, in a vector diagram, on an arc spanning the reference voltage vector, means for establishing said reference voltage at a phase angle relative to said alternating current source that if the relative impedance ratio of said elements tends toward infinity in a given sense the output voltage vector tends to become parallel to the vector of a voltage of said alternating current source, circuit elements energized from said alternating current source, and means for connecting said second output terminal to said circuit elements so that the potential of said second output terminal lies, in the vector diagram, within the space bounded by the reference voltage vector and said arc.

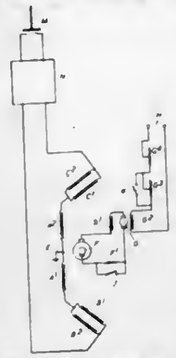
2,640,960
WELDING TRANSFORMER
Earl Force, Newton Falls, Ohio, assignor of fifty per cent to Webster B. Harpman, Poland, Ohio
Application April 17, 1951, Serial No. 221,481
6 Claims. (Cl. 321—57)



1. A welding transformer for transforming three phase alternating current into single phase alternating current of the same frequency and comprising three apertured cores, two of which are positioned in end-to-end relation and the third of which is positioned intermediate thereof and at right angles thereto, primary circuits about the outermost portions of each of the cores and a secondary circuit about the adjacent portions of said cores, one or more of said primary circuits connected in reverse relation with respect to the remaining primary circuits.

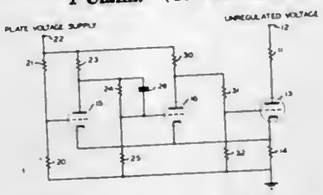
2,640,961
ELECTRIC GENERATOR FOR SHORT-CIRCUIT TESTING
Henry Leyburn, Newcastle-on-Tyne, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a British company
Application February 23, 1951, Serial No. 212,316
In Great Britain March 1, 1950
2 Claims. (Cl. 322—83)

1. An electric circuit for single phase short-circuit testing with the aid of three-phase generator means having two windings per phase in which the two windings of one phase are connected in series with one another, while the two windings of each of the other phases are connected in parallel with one another, means connecting the two parallel-connected pairs of windings in series with each other and with the series-connected pair of windings, in such direc-



tion that the resultant voltage of the two parallel connected pairs reinforces that of the series-connected pair, so that the output is obtained from all six windings.

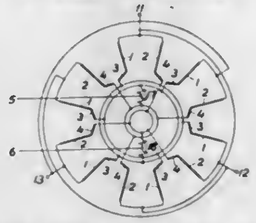
2,640,962
CONSTANT CURRENT DEVICE
John W. Gray, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application March 5, 1946, Serial No. 652,196
1 Claim. (Cl. 323—4)



A constant current device comprising a first resistance through which the current is to be maintained constant, a first electron tube having at least a cathode, an anode, and a control grid, said first resistance constituting the plate load resistance of said first electron tube, a second resistance in the cathode circuit of said first electron tube across which is developed a variable voltage depending upon variations in the current in said first resistance, a second and third electron tubes each having at least a cathode, an anode, and a control grid, said second and third electron tubes comprising a two stage amplifier, the cathode to grid circuits of said second and third electron tubes including a common cathode resistance to provide positive voltage feedback, a voltage divider to provide a fixed voltage to the cathode-control grid circuit of said second electron tube, means to apply said variable voltage to the cathode-control grid circuit of said second electron tube, variations in said variable voltage when compared with said fixed voltage producing an error voltage in the cathode-control grid circuit of said second electron tube, said error voltage constituting the effective signal input to said amplifier, said error voltage being dependent upon the variations in the stabilized current, and means for applying the output of

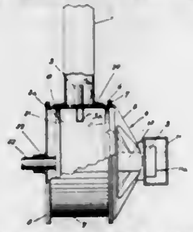
said amplifier to the control grid-cathode circuit of said first electron tube to maintain the current in said first resistance constant.

2,640,963
SPARE CONNECTED POLYPHASE TRANSDUCTOR
Harald M. Sörensen, Fruens Boge, Denmark, and Harry Forssell, Ludvika, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application June 14, 1949, Serial No. 98,974
In Sweden June 16, 1948
2 Claims. (Cl. 323—89)



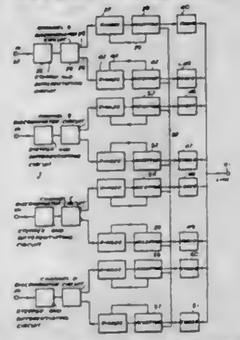
1. A device comprising at least two saturable reactors having windings, a direct current source and a multiphase alternating current source, each of said reactors including at least one winding connected to each phase of said alternating current source, means connecting said direct current source to said windings so that at least parts of the windings of each of such reactors are connected in common to both such sources, means mounting and connecting said reactors in such a way that the voltages in such reactors are displaced in phase with respect to each other, and means so connecting the windings as to maintain the instantaneous direct currents in such common parts substantially equal while the alternating current voltages in such parts are independent of one another.

2,640,964
MICROWAVE MODULATION
Samuel Freedman and Giusto Fonda Bonardi, United States Navy
Application May 9, 1945, Serial No. 592,801
9 Claims. (Cl. 332—26)



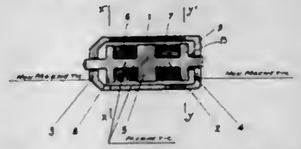
1. A frequency modulating system for ultra-high-frequency wave energy comprising in combination, a high-frequency oscillator, a wave guide output circuit including means enclosing said oscillator therewithin, a resonating chamber coupled to said oscillator and connected to said wave guide, an adjustable tuning shield in said resonating chamber, a movable conducting shield in said resonating chamber, and means actuating said movable conducting shield in response to an applied modulating signal.

2,640,965
ELECTRIC PULSE CODE MODULATION SYSTEM OF COMMUNICATION
Charles Cecil Eaglesfield, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Original application October 20, 1949, Serial No. 122,385. Divided and this application October 31, 1951, Serial No. 254,362. In Great Britain October 22, 1948
4 Claims. (Cl. 332—11)



1. An electric pulse code generator comprising a cathode ray tube having a target plate having two parallel edges, the width of which plate changes progressively in discontinuous steps from one edge of the plate to the opposite edge, means for causing the cathode ray to produce a fine line across the plate parallel to the said edges, means for applying a signal wave to deflect the beam in a direction perpendicular to the said edges, means for deriving a stepped wave from the said plate, means controlled by the stepped wave for generating a code pulse of one type in response to an increase in the amplitude of the stepped wave, and means controlled by the stepped wave for generating a code pulse of a different type in response to a decrease in the amplitude of the stepped wave.

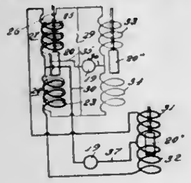
2,640,966
VARIABLE INDUCTANCE COMPARATOR
Pierre André Drouin, Paris, France
Application August 10, 1948, Serial No. 43,457
In France August 14, 1947
3 Claims. (Cl. 336—134)



1. In an electromagnetic precision comparator, a magnetic circuit comprising a hollow cylindrical stator of magnetic material, a magnetic core movable axially inside said stator and forming the feeler of the comparator, said magnetic core consisting of a cylindrical shaft provided with a central flange and with two side flanges, the distance between the transverse planes of symmetry of said side flanges being equal to the length of the stator so as to form between said stator and movable core two air gaps of constant radial thickness and of variable area, two coils arranged

between the central flange and the side flanges respectively, whereby two circuits are formed of which the reluctances vary in opposite directions.

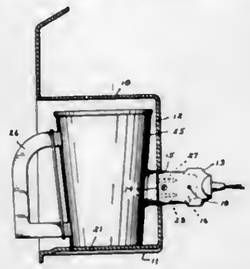
2,640,967
DIFFERENTIAL TRANSFORMER
William D. Macgeorge, Collegeville, Pa., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Original application November 24, 1948, Serial No. 61,835, now Patent No. 2,568,587, dated September 18, 1951. Divided and this application August 31, 1951, Serial No. 244,484
1 Claim. (Cl. 336—136)



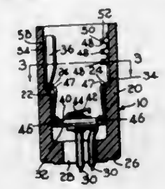
A transformer comprising a first and a second air-cored coil in axial alignment and juxtaposed relation in a non-magnetic assembly, the first coil being formed of at least a first and a second wire, and the second coil being formed of at least a third and a fourth wire, of which said first and third are identical and said second and fourth are identical, the respective coils each comprising identical multiple turns of their respective wires laid on in adjacency so that the coils are identical with said first and second wires and said third and fourth wires respectively in mutual inductive relation throughout the operative lengths of said wires in their respective coils, means interconnecting said first and third wires to form a transformer primary having connections for an energizing A. C. input, means interconnecting said second and fourth wires to form a transformer secondary connectively isolated from the transformer primary comprising a common output connection for the second and fourth wires, said second and fourth wires having respective terminal output connections each respectively similarly spaced from and defining with the common connection substantially identical effective operative lengths of said second and fourth wires, a magnetic armature movable axially of the two aligned coils having one substantially symmetrical position therein at which the voltage of the effective operative length of said second wire is of substantially the same magnitude and phase as that of the effective operative length of said fourth wire, movement of said armature from said symmetrical position in either sense increasing the magnitude of the voltage in the operative length of that wire of the secondary toward which the armature moves while reciprocally decreasing that of the other wire of the secondary as a linear function of such movement.

2,640,968
ELECTRIC CUP CONNECTOR
Frederic F. Lehr, Indianapolis, Ind., assignor to Liberty Electric Company, Indianapolis, Ind., a corporation of Indiana
Application June 7, 1950, Serial No. 166,729
1 Claim. (Cl. 339—66)

A connector structure for a hot cup having side projecting terminal prongs, and a receptacle to receive said prongs; said structure comprising a table; means for fixedly holding said receptacle at one side of and above said table; a bead raised from the table to be longitudinally centered in a vertical plane extending centrally through said receptacle; a floor on said cup to rest on said table; said floor having a groove extending diametrically across the under side of the cup floor; and said bead being of that length in relation to said cup floor and said prongs to enter said groove when the cup is placed thereover and to maintain said cup against rotation on the cup vertical axis and prevent shifting over the floor laterally from said bead prior to reception of said prongs in said receptacle.



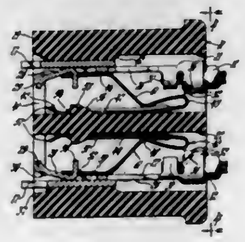
2,640,969
LAMP SOCKET
William J. Coyle, Waltham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 29, 1949, Serial No. 84,047
3 Claims. (Cl. 339—180)



1. A socket for electric lamps and similar devices having a threaded-connecting base, the socket comprising: a hollow socket body of insulating material having an outer tubular wall portion with a base receiving opening at one end, an inner tubular wall portion, radially inwardly extending shoulders between said inner and outer tubular wall portion, and an apertured end wall at the opposite end of said inner tubular wall portion, and a substantially U-shaped base engaging member disposed in said body, formed from conducting material and comprising a bight portion and opposed leg portions, said bight portion having pointed prongs, intermediate said leg portions extending angularly in the same general direction as said leg portions in biting engagement with the walls of said inner tubular wall portion to prevent axial withdrawal of said base engaging member from said body, said leg portions including shoulder portions in engagement with the inwardly extending shoulders of said body to limit axial movement of said base engaging member upon insertion into said body, one of said leg

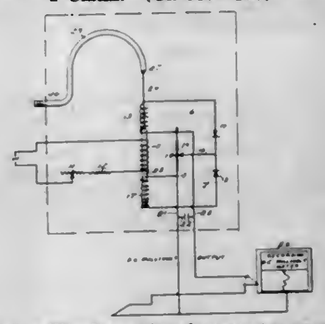
portions having at its outer free end threaded base engaging fingers extending circumferentially adjacent the walls of said outer tubular portion for engaging such a base between the threads thereof, and the other of said leg portions having at its outer free end a resilient curved plate portion with its side edges in engagement with the walls of said outer tubular wall portion and with the portion thereof intermediate said side edges disposed in spaced relation to the side walls of said outer tubular wall portion on an arc with a radius greater than that of the walls of said outer tubular wall portion to provide resilient means for engaging such a base and urging it into engagement with said thread engaging fingers.

2,640,970
ELECTRICAL CONNECTOR HAVING A SPRING-BIASED LINE TERMINAL
Robert N. Falge and David Paul Clayton, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 13, 1950, Serial No. 167,818
5 Claims. (Cl. 339—185)



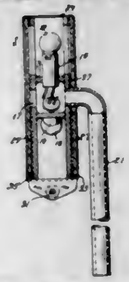
1. An electrical connector comprising an insulative body having a plurality of parallel passages for receiving lamp terminals for removable disposition therein adjacent one of the walls of each of said passages and line terminals for engagement by said lamp terminals, spring fasteners disposed in said passages between said line terminals and an opposite wall of each of said passages and providing resilient engagement between said line terminals and said lamp terminals within said passages, said spring fasteners having a first bend intermediate the ends thereof to provide pairs of passage wall and line terminal engaging spring ends, said spring ends and said opposite passage walls and said line terminals being provided with associated interlocking means for normally retaining said fasteners and said line terminals within said body passages, said wall engaging spring ends being provided with reinforcing means throughout the length thereof for stiffening said wall engaging ends of said fasteners, and each of said terminal engaging spring ends being provided with further intermediate bends, at least one of said intermediate bends in each of said terminal engaging spring ends engaging said wall engaging ends whereby the resilient force applied by said fasteners to said terminals and said walls is increased when said one of said intermediate bends are so engaged, and angularly disposed portions between said intermediate bends in each of said terminal engaging ends providing recesses in said fasteners for receiving the relatively enlarged line connecting ends of said line terminals.

2,640,971
D. C. MILLIVOLTAGE SIGNAL FROM AN A. C. ACTUATED DIFFERENTIAL TRANSFORMER
William D. Macgeorge, Collegeville, Pa., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 18, 1950, Serial No. 162,759
1 Claim. (Cl. 340—196)



A D. C. millivoltage signal generator responsive to movement of a member movable with changes of condition of a conditioned device, comprising a differential transformer comprising a coaxial armature and a hollow stator arranged for relative movements to generate a signal, said stator comprising primary and secondary windings in inductive relation to said armature, a network comprising a single potentiometer wire connecting an end of one secondary winding to an end of the other secondary winding, circuit means connecting the opposite ends of said respective secondary windings, a single movable arm for said potentiometer wire joining the circuit means and said potentiometer wire and forming two contiguous network loops each comprised of a portion of said potentiometer wire, a secondary coil, circuit means and said single movable arm, rectifying means in each loop, output leads connected respectively to the respective ends of the potentiometer wire and providing D. C. millivoltage signals proportional to the relative displacement of the armature and stator, and connectors for feeding a controlled source of A. C. to the said primary coil.

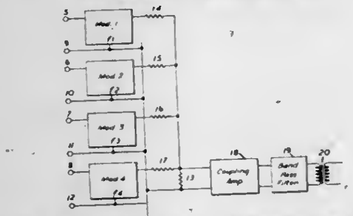
2,640,972
DIRECTIONAL INDICATOR
Moffett Carter, Berkeley, Calif.
Application January 15, 1951, Serial No. 206,091
2 Claims. (Cl. 340—112)



1. A directional signal comprising a casing having a hollow cylindrical hub, a plurality of partitions radiating therefrom to define cham-

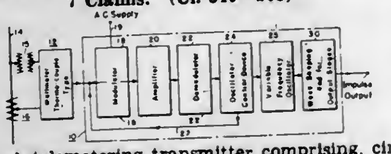
bers, and a window at each end of said hub and partitions, one of said windows having an opening in axial alignment with said hollow hub, a light socket in each chamber and mounted in said cylindrical hub, and electrical connections from said sockets leading out of said casing through said hollow cylindrical hub and window opening, means masking each window and providing a directional indication for each chamber, and a tubular supporting bracket connected to said casing through said window opening.

2,640,973
ELECTRIC SIGNAL MODULATOR
Richard Francis Cleaver and Thomas Duncan Gray, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 5, 1949, Serial No. 69,352
In Great Britain January 6, 1948
2 Claims. (Cl. 340—182)



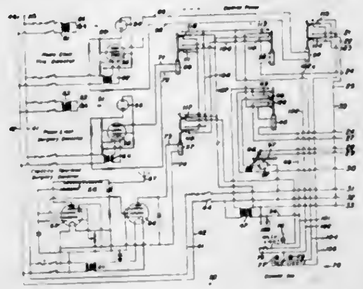
1. An arrangement for generating carrier sine waves, amplitude-modulated in accordance with signal voltages; comprising means for producing a train of direct current pulses having a given polarity and repetition frequency, means for applying the signal voltages to said pulse producing means to modulate the amplitude of said direct current pulses in accordance with said signals, and means for selecting a harmonic component of said resultant amplitude-modulated pulse train to serve as the said amplitude-modulated carrier sine wave.

2,640,974
REMOTE METERING APPARATUS
Carl Oman, Cedar Grove, N. J., and John R. Clark, West Lafayette, Ind., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 29, 1949, Serial No. 118,668
7 Claims. (Cl. 340—203)



1. A telemetering transmitter comprising, circuit means operable to produce a control voltage proportional to a reversible quantity to be metered, modulating means, circuit means connected to apply a bias voltage to the modulating means in series with the control voltage to produce an alternating current voltage having an amplitude which is a function of the control voltage, an oscillator, control means connecting the oscillator to be responsive to said alternating current voltage, and circuit means connected to apply a feed-back voltage from the control means to the modulating means which is dependent on the impulse rate of the oscillator.

2,640,975
ALARM SYSTEM
Carl W. Roe and Sidney T. Roe, Houston, Tex.
Application October 20, 1950, Serial No. 191,134
7 Claims. (Cl. 340—215)

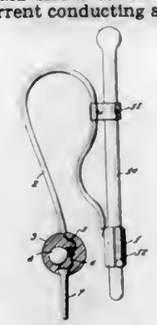


1. A protective alarm system comprising a number of substations, each arranged in one of the premises to be protected, a manually operated alarm circuit and further alarm circuits operated automatically by different types of alarm producing emergencies in each substation, said alarm circuits being divided into groups, operated under the same emergency conditions, a control panel arrangement in each substation including a detector relay for each alarm circuit, a number of recording mechanisms each provided with a sound record carrier, with means for translating the said recording into talking currents and with electric driving means for said record, each recording mechanism being allotted to one of the alarm circuit types, one of said recording mechanisms being provided with a spoken record announcing an emergency occurring only during manual operation of an alarm circuit, other recording mechanisms being provided with records of spoken messages, each message being associated with one of the groups of automatically operated alarm circuits, an operating relay for each recording mechanism, one of said operating relays being operable by said manually operated alarm circuit, further operating relays operable by the automatically operated alarm circuits, one operating relay being associated with each group of alarm circuits, an energizing circuit for each operating relay, a control relay controlling the energizing circuit of each operating relay, said energizing circuit being further controlled by one of the detector relays, energizing circuits for each of said control relays, and a manually operated switch for controlling the alternative operation of the manually operated alarm circuit and the automatically operated alarm circuit, said manually operated means controlling simultaneously all the energizing circuits of all of said control relays, and in addition, a holding circuit for each operating relay, closed whenever the relay is operated, and a release relay controlling said holding circuits.

2,640,976
ELECTROLYTE LEVEL INDICATING ATTACHMENT
Joseph F. Prohaska, Los Angeles, Calif.
Application November 30, 1951, Serial No. 259,107
5 Claims. (Cl. 340—244)

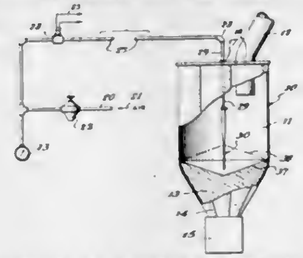
1. An attachment to a battery filler syringe comprising, a current conducting sleeve mountable on the shank of the syringe, a transparent non-conducting member, an electric light bulb

molded into said member, a flexible conductor leading from said sleeve to one contact of said light bulb, a current conducting stem molded into



and projecting from said member, and a wire within the member connecting the other light bulb contact with the said stem.

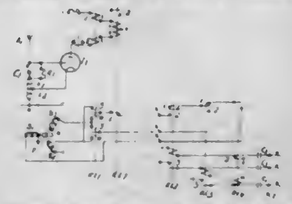
2,640,977
LEVEL INDICATOR OPERATED BY AIR PRESSURE
Jules T. Parisi, Chicago, Ill.
Application November 27, 1951, Serial No. 258,366
12 Claims. (Cl. 340—246)



1. A device for actuating pressure-operated means indicating the rise or fall of the level of granular material in a storage bin relative to a pre-determined level, said device adapted to be connected into an air line system having said means therein comprising a collapsible, elongate tubular member suspended in said bin and having a passageway for passing air therethrough, said member adapted to be collapsed by the granular material when same rises above said predetermined level whereby to create a back pressure in said line for operating said means to indicate said higher level and permitting air to pass therefrom when the granular material falls below said predetermined level whereby to operate said means to indicate said lower level.

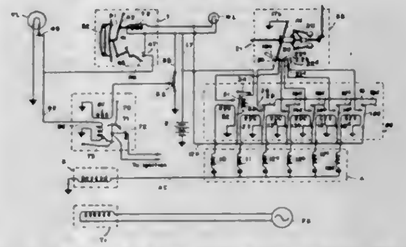
2,640,978
CAPACITY ACTUATED BURGLAR ALARM
Per Harry Elias Claesson, Jakobsberg, and Karl Lennart Johansson, Grondal, Sweden
Application October 20, 1950, Serial No. 191,154
In Sweden October 22, 1949
5 Claims. (Cl. 340—258)

1. In a detector system, in combination a bridge circuit having a guard antenna connected to one arm and defining a capacitance in said one arm and having a variable capacitor connected in another arm, a source of high frequency oscillatory current connected to said bridge circuit, an electrical indicating device coupled to said bridge circuit and operating in response to relatively rapid impedance variations in said one arm of the bridge circuit to indicate an intruder, said variable capacitor being adjustable to provide a predetermined normal value of current in the indicating device, regulating means coupled



to the variable capacitor and operating in response to relatively slow changes in the magnitude of the current in said indicating device to regulate the variable capacitor to return the current to said predetermined normal value, a time delay element connected to said regulating means, and means whereby said time delay element retards the action of the regulating means.

2,640,979
TRAFFIC VIOLATION INDICATING SYSTEM FOR MOTOR VEHICLES
Harry R. Carter, Larchmont, N. Y.
Application October 31, 1950, Serial No. 193,163
21 Claims. (Cl. 340—264)

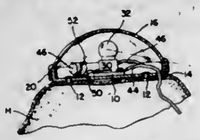


1. A traffic violation indicating system for a motor vehicle comprising in combination, violation indicator means mounted on said vehicle externally thereof, a receiver mounted on said vehicle for receiving electrical signals of different frequencies transmitted from signal sources located along a roadway, each said signal being representative of a particular traffic violation, means for analysing the received signals, normally open circuit means for energizing said indicator means, switch means in the circuit means including speed responsive means and means actuable in accordance with the response of the analysing means to effect closing of said circuit means, and timing means operative to maintain the circuit means closed for a predetermined time period following its closing and upon the elapse of said period to effect opening of said circuit means.

2,640,980
ILLUMINATED HEAD COVERING
Nathan Prupis, Seattle, Wash., assignor of one-half to Ralph G. Grossman, Seattle, Wash.
Application December 11, 1950, Serial No. 200,240
2 Claims. (Cl. 340—321)

2. In an electrically illuminated head covering, the improvement, comprising: a base plate

mounted at the crown of said head covering; a translucent dome fully covering said base plate; an electric light bulb mounted on said base plate and positioned with its filament above said base so as to be visible in an area defined by a portion



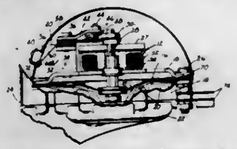
of a sphere, centered at said filament, greater than a hemisphere; a source of electrical current to be carried by the user; a blinker, and connector means for connecting said source, light bulb and blinker in the same circuit.

2,640,981

CASING AND SEALING MEANS FOR HORNS OR THE LIKE

Thomas G. Moulding, Toledo, Ohio

Application February 24, 1949, Serial No. 78,058
8 Claims. (Cl. 340—388)



4. In an electromagnetic horn, a dished base member with an outwardly-extending flange of substantially circular conformation, an electromagnetic motor mounted on the base member including an upstanding bracket for mounting the moving elements thereof and an outwardly extending terminal means, a diaphragm cooperating with the base member, a front-plate slightly larger than and cooperating with the diaphragm to form a chamber, means to clamp the base member, the diaphragm and the front-plate together, circumferentially spaced detent means held in position by the clamping means on the assembly adjacent the front-plate, a resilient cover means for the electromagnetic motor having an aperture for the terminal means and a distortable lip to cooperate with the front-plate, resilient gasket means to insulate and seal the terminal means in the aperture of the cover, and means in the cover means including a circumferential cam surface adjacent the lip to engage and overhang the detent means and positioned thereover by distortion of the lip of the cover means, whereby the cam surface is urged inwardly against the detent means to hold the cover means in position with the lip resiliently urged against the front-plate.

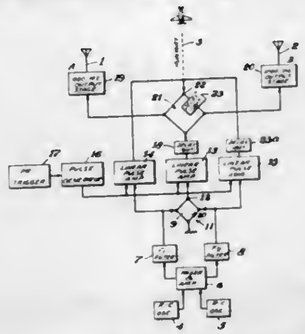
2,640,982

PULSE NAVAGLIDE SYSTEM

Anthony M. Casabona, Hawthorne, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application April 17, 1948, Serial No. 21,655
17 Claims. (Cl. 343—6)

1. A radar and beacon system for defining a course and determining the position of a craft with respect to said course comprising a pair of antennas spaced apart transversely of said course, a source of pulse energy, and a source of carrier frequency energy, modulator means for modulating said carrier frequency energy with said pulse energy to derive distinctive pulse modulated outputs thereof, combining means for combining said pulse modulated out-



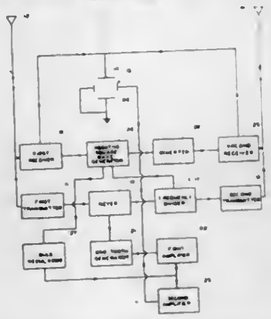
puts to provide two distinctive combined outputs and coupling means for applying said distinctive combined outputs to respective ones of said antennas for radiation therefrom.

2,640,983

PULSE-ECHO SIGNAL DISPLAY SYSTEM

Irving Stokes, Neptune, N. J., and Lorimer P. Brooks, Washington, D. C.

Application July 31, 1943, Serial No. 496,940
2 Claims. (Cl. 343—6.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination with an oscilloscope provided with vertical and horizontal deflection means, means coupled to said vertical and horizontal deflection means for producing a pair of base lines laterally displaced with respect to each other; means for applying synchronized signals to said base lines, and means for shifting one of said base lines longitudinally with respect to the other whereby the traces of the synchronized signals applied thereto may be aligned in a plane normal to said base lines, said last named means including an electrical circuit synchronized with the sweep circuit of said oscilloscope for generating a square wave voltage, a vacuum tube amplifier receptive of said square wave voltage connected to provide a plate output and a cathode output, a pair of ganged potentiometers connected to said plate and cathode outputs, respectively, for combining said outputs and means for apply-

ing said combined output to said horizontal deflection means for longitudinally shifting the position of one of said base lines with respect to said other base line.

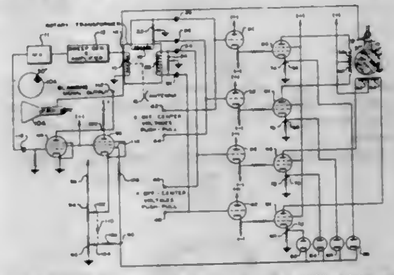
2,640,984

GATING SYSTEM FOR PLAN POSITION INDICATORS

Chalmers W. Sherwin, Leonia, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application April 18, 1946, Serial No. 662,984
4 Claims. (Cl. 343—11)

1. In a radar system employing fixed coil type plan position indicators, a first cathode ray tube, means for sweeping the screen of said first cathode ray tube with an electron beam for presenting radar data on said screen, means for off-centering the origin of the sweep of said first cathode ray tube to present a selected area on said screen, a second cathode ray tube, means for sweeping the screen of said second cathode ray tube with an electron beam for presenting radar data on said screen, means for positioning the origin of said last mentioned sweep substantially at the center of said second cathode ray tube, means for intensifying said electron beam in said first cathode ray tube during the time of directly striking the screen thereof, said means be-

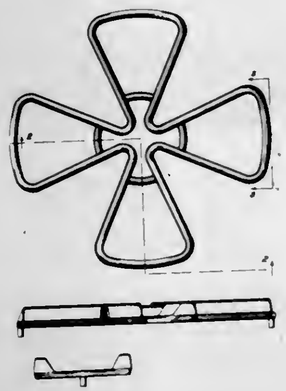


ing operative to provide an output applicable with radar data to said second cathode ray tube, thereby producing a bright area on the screen of said second cathode ray tube, indicating the area presented on said first cathode ray tube.

DESIGNS

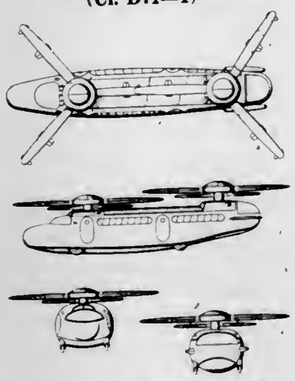
JUNE 2, 1953

169,719
STOVE GRID
Charles W. Agee, Chattanooga, Tenn., assignor to Samuel Stamping & Enameling Company, Chattanooga, Tenn., a corporation of Tennessee
Application July 14, 1952, Serial No. 20,609
Term of patent 7 years
(Cl. D81—10)



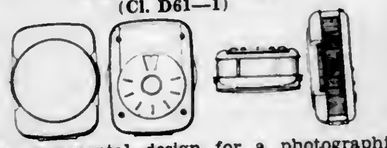
The ornamental design for a stove grid, substantially as shown.

169,720
HELICOPTER
Stefan Apostolescu, New York, N. Y.
Application June 18, 1952, Serial No. 20,251
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a helicopter, as shown.

169,721
PHOTOGRAPHIC LIGHT METER
Hans A. Bakke, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application September 26, 1952, Serial No. 21,608
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a photographic light meter, as shown.

169,722
SPECTACLE FRAME OR THE LIKE
Ralph J. T. Bauer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 12, 1953, Serial No. 23,574
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle frame or the like, substantially as shown and described.

169,723
SPECTACLE FRAME OR THE LIKE
Ralph J. T. Bauer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 12, 1953, Serial No. 23,575
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle frame or the like, substantially as shown and described.

169,724
SPECTACLE FRAME OR THE LIKE
Ralph J. T. Bauer and Armand De Angelis, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 12, 1953, Serial No. 23,576
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle frame or the like, substantially as shown and described.

169,725
SPECTACLE FRAME OR THE LIKE
Ralph J. T. Bauer and Armand De Angelis, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 12, 1953, Serial No. 23,577
Term of patent 14 years
(Cl. D57—1)



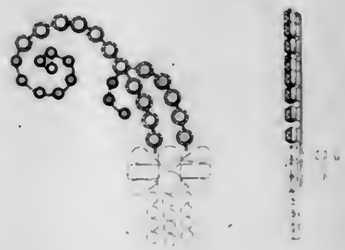
The ornamental design for a spectacle frame or the like, substantially as shown and described.

169,726
EAR ORNAMENT OR SIMILAR ARTICLE
Louis Bell, Roxbury, Mass.
Application January 2, 1953, Serial No. 22,991
Term of patent 14 years
(Cl. D45—9)



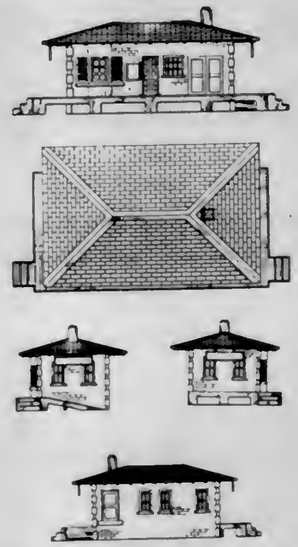
The ornamental design for an ear ornament or similar article, substantially as shown and described.

169,727
EAR ORNAMENT OR SIMILAR ARTICLE
Louis Bell, Roxbury, Mass.
Application January 2, 1953, Serial No. 22,992
Term of patent 14 years
(Cl. D45—9)



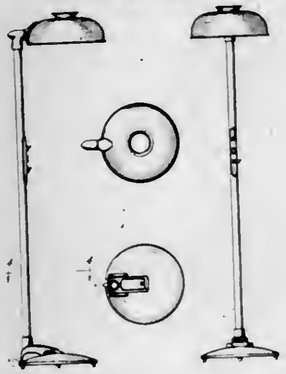
The ornamental design for an ear ornament or similar article, substantially as shown and described.

169,728
TOY RAILROAD STATION
William L. Bonar, Moundsville, W. Va., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application December 16, 1952, Serial No. 22,733
Term of patent 7 years
(Cl. D34—15)



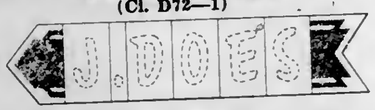
The ornamental design for a toy railroad station, substantially as shown.

169,729
READING AND EXAMINATION LAMP
Harlan F. Borin, Chicago, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois
Application August 12, 1952, Serial No. 20,973
Term of patent 14 years
(Cl. D48—20)



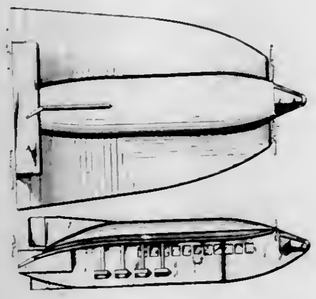
The ornamental design for a reading and examination lamp, substantially as shown.

169,730
DIRECTIONAL MARKER FOR MAILBOXES
Dorothy M. Breh and Richard A. Servatius, Syracuse, N. Y.
Application August 27, 1952, Serial No. 21,211
Term of patent 7 years
(Cl. D72—1)

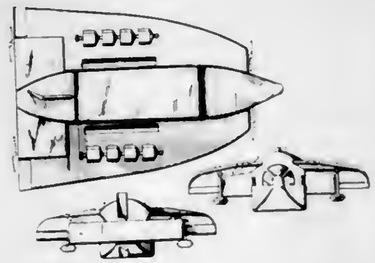


The ornamental design for a directional marker for mailboxes, substantially as shown and described.

169,731
AIRPLANE
John T. Corrigan and Peter P. Sherry, Walla Walla, Wash.
Application September 5, 1952, Serial No. 21,352
Term of patent 14 years
(Cl. D71—1)



169,731—Continued



The ornamental design for an airplane, as shown and described.

169,732
SHOE OR THE LIKE
Fred J. Diamant, New York, N. Y., assignor to Desco Shoe Corp., Long Island City, N. Y.
Application January 6, 1953, Serial No. 23,040
Term of patent 7 years
(Cl. D7—7)







The ornamental design for a shoe or the like, substantially as shown.

169,733
TUMBLER
Freda Diamond, New York, N. Y., and James E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1953, Serial No. 23,433
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a tumbler, substantially as shown.

169,734
TUMBLER
Freda Diamond, New York, N. Y., and James E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1953, Serial No. 23,434
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a tumbler, substantially as shown.

169,735
TUMBLER
Freda Diamond, New York, N. Y., and James E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1953, Serial No. 23,435
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a tumbler, substantially as shown.

169,736
TUMBLER
Freda Diamond, New York, N. Y., and James E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1953, Serial No. 23,436
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a tumbler, substantially as shown.

169,737
TUMBLER
Freda Diamond, New York, N. Y., and James E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1953, Serial No. 23,437
Term of patent 3½ years
(Cl. D36—8)



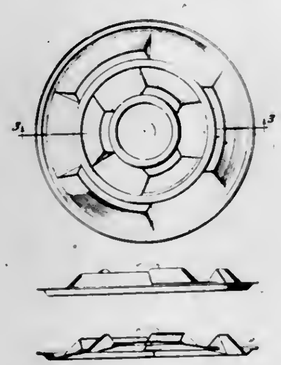
The ornamental design for a tumbler, substantially as shown.

169,738
TUMBLER
Freda Diamond, New York, N. Y., and James E. Plummer, Toledo, Ohio, assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1953, Serial No. 23,438
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a tumbler, substantially as shown.

169,739
COOKING PAN LID
Ralph J. Dietrich, Palm Springs, Calif.
Application September 27, 1952, Serial No. 21,622
Term of patent 3½ years
(Cl. D44—15)



The ornamental design for a cooking pan lid, substantially as shown and described.

169,740
STOCKING
Max Fisher, Lower Alsace Township, Berks County, Pa.
Application February 25, 1953, Serial No. 23,788
Term of patent 14 years
(Cl. D47—7)





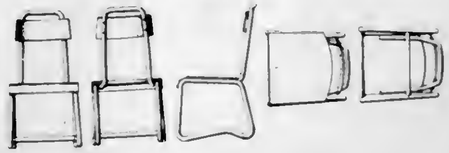
The ornamental design for a stocking, as shown.

169,741
STOCKING
Max Fisher, Lower Alsace Township, Berks County, Pa.
Application February 25, 1953, Serial No. 23,789
Term of patent 14 years
(Cl. D47—7)



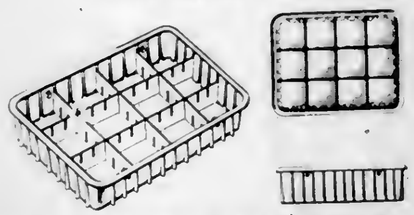
The ornamental design for a stocking, as shown.

169,742
CHAIR
Gordon W. Florian, Fairfield, Harry W. Streck, Bridgeport, and William E. Kelsey, Jr., Fairfield, Conn.
Application April 15, 1952, Serial No. 19,337
Term of patent 3½ years
(Cl. D15—8)



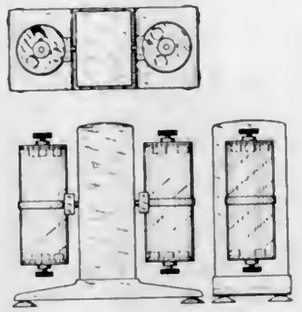
The ornamental design for a chair, substantially as shown.

169,743
STACKABLE TOTE BOX
Ralph C. Fritz, Jr., Van Nuys, Godfrey L. dé Caccia, Culver City, and Darrell Ratzlaff, Los Angeles, Calif.
Application January 21, 1953, Serial No. 23,244
Term of patent 14 years
(Cl. D58—13)



The ornamental design for a stackable tote box, as shown.

169,744
GAME APPARATUS
John G. Frost, Seattle, Wash.
Application June 26, 1952, Serial No. 20,365
Term of patent 14 years
(Cl. D34—5)



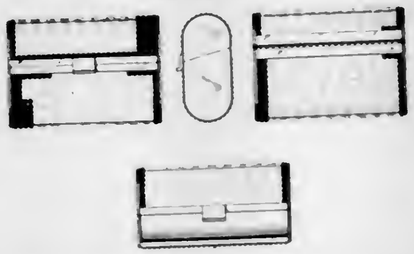
The ornamental design for a game apparatus, as shown.

169,745
ACCORDION GRILL
Julio Giulietti, Brooklyn, N. Y., assignor to Giulietti Accordion Corporation, New York, N. Y., a corporation of New York
Application October 30, 1952, Serial No. 22,055
Term of patent 7 years
(Cl. D56—1)



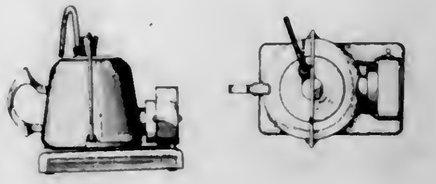
The ornamental design for an accordion grill, substantially as shown.

169,746
HANDBAG
William H. Hardy, River Edge, N. J.
Application January 15, 1953, Serial No. 23,147
Term of patent 7 years
(Cl. D87—3)



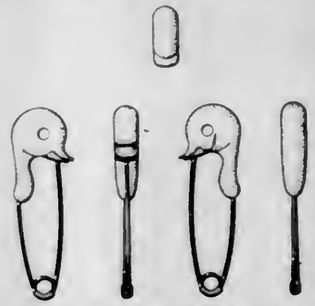
The ornamental design for a handbag, substantially as shown and described.

169,747
COMBINED ELECTRIC KETTLE AND STAND
Lawrence George Hawkins, London, England
Application January 26, 1953, Serial No. 23,304
In Great Britain July 30, 1952
Term of patent 14 years
(Cl. D81—10)



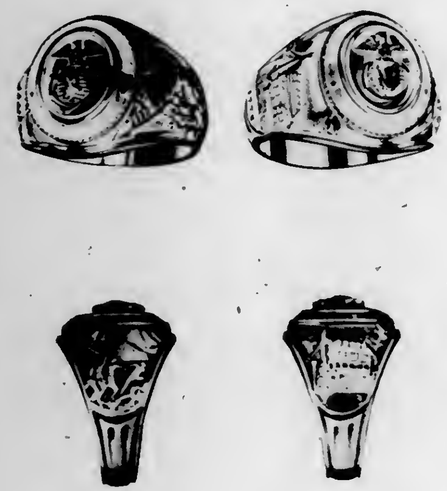
The ornamental design for a combined electric kettle and stand, as shown.

169,748
SAFETY PIN
Robert M. Hayes, Weston, Mass.
Application January 21, 1953, Serial No. 23,210
Term of patent 14 years
(Cl. D86—10)



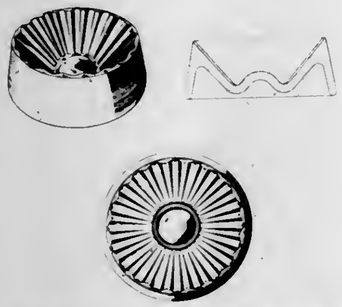
The ornamental design for a safety pin, substantially as shown.

169,749
FINGER RING
William Park Hickman, Bridgeville, Pa., assignor of one-half to Russell C. Johnson, Mariemont, Ohio
Application January 18, 1952, Serial No. 18,109
Term of patent 14 years
(Cl. D45—10)



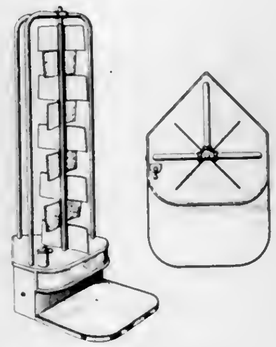
The ornamental design for a finger ring, as shown.

169,750
ASH TRAY OR SIMILAR ARTICLE
Martin J. Hinterschied, Columbus, Ohio
Application April 25, 1952, Serial No. 19,470
Term of patent 14 years
(Cl. D85—2)



The ornamental design for an ash tray or similar article, substantially as shown.

169,751
MASSAGING MACHINE
Louis E. Holland, Lee's Summit, Mo.
Application August 30, 1952, Serial No. 21,264
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a massaging machine, as shown and described.

169,752
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,661
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown and described.

169,753
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,662
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown and described.

169,754
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,663
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown and described.

169,755
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,664
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown and described.

169,756
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,665
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown and described.

169,757
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,666
Term of patent 14 years
(Cl. D47—7)



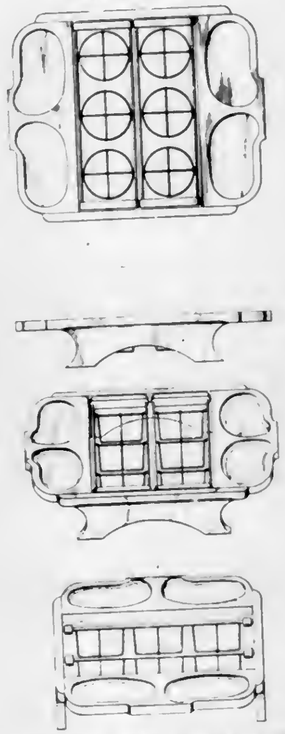
The ornamental design for a stocking, substantially as shown and described.

169,758
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application February 17, 1953, Serial No. 23,667
Term of patent 14 years
(Cl. D47—7)



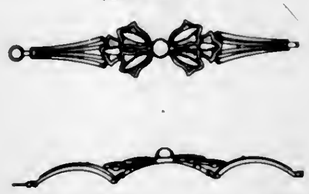
The ornamental design for a stocking, substantially as shown and described.

169,759
COMBINED FOOD TRAY AND PIVOTED BEVERAGE RACK
Robert B. Karoff, New York, N. Y., assignor to Karoff Originals, Ltd., New York, N. Y., a corporation of New York
Application November 20, 1952, Serial No. 22,384
Term of patent 7 years
(Cl. D44—10)



The ornamental design for a combined food tray and pivoted beverage rack, as shown and described.

169,760
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 3, 1953, Serial No. 23,421
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

169,761
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 3, 1953, Serial No. 23,422
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

169,762
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,537
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,763
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,539
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a necklace or the like, substantially as shown and described.

169,764
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,541
Term of patent 7 years
(Cl. D45—16)



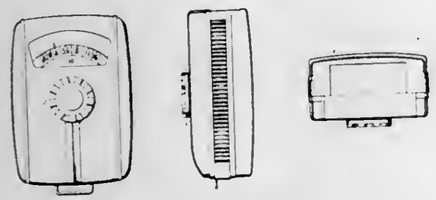
The ornamental design for a necklace or the like, substantially as shown and described.

169,765
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,909
Term of patent 7 years
(Cl. D45—19)



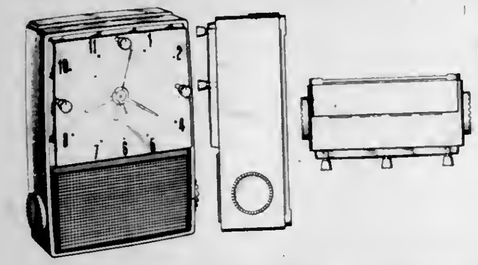
The ornamental design for a brooch or the like, substantially as shown.

169,766
LIGHT METER
Roger B. Kerr, Jamestown, R. I., and Frank Gianascol, Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application September 4, 1952, Serial No. 21,302
Term of patent 14 years
(Cl. D61—1)



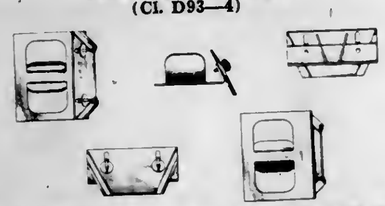
The ornamental design for a light meter, substantially as shown.

169,767
COMBINATION CLOCK AND RADIO
Edward Klein, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application November 26, 1952, Serial No. 22,453
Term of patent 7 years
(Cl. D56—4)



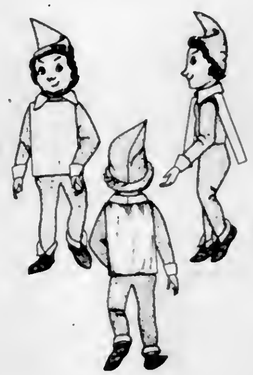
The ornamental design for a combination clock and radio, substantially as shown and described.

169,768
PUTTYING TOOL
Walter Lausman, Baroda, and Oliver R. Siewert, St. Joseph, Mich.
Application November 21, 1952, Serial No. 22,395
Term of patent 7 years
(Cl. D93—4)



The ornamental design for a puttying tool, substantially as shown.

169,769
FIGURINE
Thomas B. Lee, Greenwich, Conn.
Application January 12, 1953, Serial No. 23,102
Term of patent 14 years
(Cl. D34—4)



The ornamental design for a figurine, substantially as shown.

169,770
STOCKING
Cyril W. Livingston, New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware
Application March 27, 1953, Serial No. 24,222
Term of patent 14 years
(Cl. D47—7)



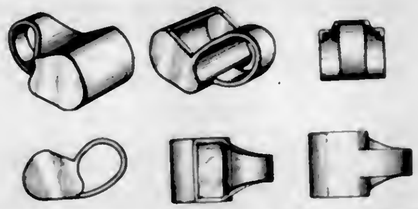
The ornamental design for a stocking, substantially as shown.

169,771
STOCKING
Cyril W. Livingston, New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware
Application April 8, 1953, Serial No. 24,404
Term of patent 14 years
(Cl. D47—7)



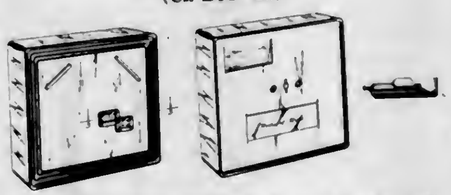
The ornamental design for a stocking, substantially as shown.

169,772
FINGER ASH TRAY
Snowden B. Lonberger, Washington, D. C.
Application February 3, 1953, Serial No. 23,417
Term of patent 14 years
(Cl. D85—2)



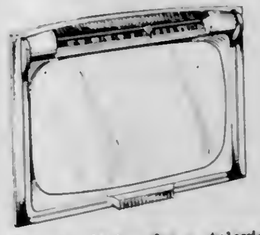
The ornamental design for a finger ash tray, as shown.

169,773
COIN ACTUATED CALENDAR BANK
Alfred E. Maage, Jr., Milwaukee, Wis., assignor to M. A. Gerett Corporation, Milwaukee, Wis.
Application May 10, 1951, Serial No. 15,123
Term of patent 14 years
(Cl. D34—11)



The ornamental design for a coin actuated calendar bank, as shown and described.

169,774
TELEVISION FRONT PANEL UNIT
Richard C. Marholz, Chicago, Ill., assignor to Raytheon Television and Radio Corporation, Chicago, Ill., a corporation of Illinois
Application January 16, 1953, Serial No. 23,168
Term of patent 3½ years
(Cl. D56—4)



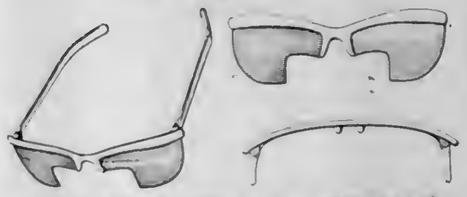
The ornamental design for a television front panel unit, substantially as shown.

169,775
SERVING CART
Murray Moxley, Geneva, Ill., assignor to The Howell Co., St. Charles, Ill., a corporation of Illinois
Application October 28, 1952, Serial No. 22,018
Term of patent 7 years
(Cl. D14—3)



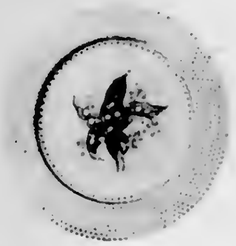
The ornamental design for a serving cart, substantially as shown.

169,776
EYESHADE
Hew B. McMurdo, San Francisco, Calif.
Application January 5, 1953, Serial No. 23,008
Term of patent 14 years
(Cl. D57—1)



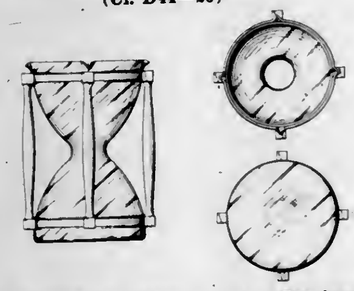
The ornamental design for an eyeshade, substantially as shown and described.

169,777
PLATE OR THE LIKE
Beatrice L. Miller, Cleveland, and Gordon Parker, Alliance, Ohio, assignors to Royal China Inc., Sebring, Ohio, a corporation of Ohio
Application December 24, 1952, Serial No. 22,864
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a plate or the like, substantially as shown and described.

169,778
COFFEE BREWER
Fred E. Newman, Chicago, Ill.
Application November 17, 1952, Serial No. 22,322
Term of patent 14 years
(Cl. D44—26)



The ornamental design for a coffee brewer, substantially as shown and described.

169,779
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application August 13, 1952, Serial No. 21,023
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

169,780
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,360
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

169,781
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,361
Term of patent 7 years
(Cl. D45—16)



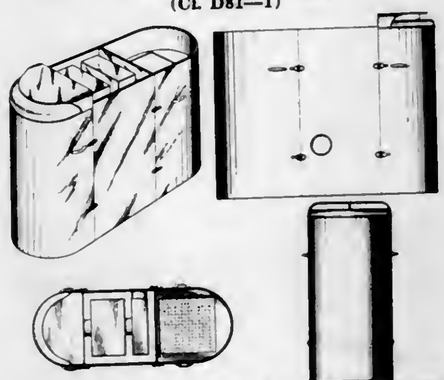
The ornamental design for a link chain for a necklace or the like, substantially as shown.

169,782
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1953, Serial No. 23,366
Term of patent 7 years
(Cl. D45—16)



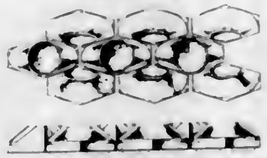
The ornamental design for a link chain for a necklace or the like, substantially as shown.

169,783
WARM AIR RESIDENTIAL FURNACE
Kenneth R. Phillips, Seattle, Wash.
Application October 11, 1952, Serial No. 21,806
Term of patent 14 years
(Cl. D81—1)



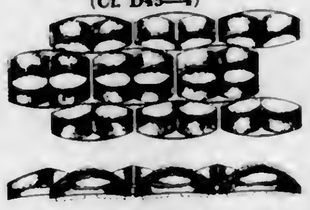
The ornamental design for a warm air residential furnace, as shown.

169,784
EXPANSIBLE LINK CHAIN FOR A WRISTBAND OR SIMILAR ARTICLE
Alfred Pinson, Stamford, Conn., assignor to Apex Accessories Co., Inc., Greenwich, Conn.
Application February 28, 1952, Serial No. 18,706
Term of patent 14 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a wristband or similar article, as shown and described.

169,785
EXPANSIBLE LINK CHAIN FOR A WRISTBAND OR SIMILAR ARTICLE
Alfred Pinson, Stamford, Conn., assignor to Apex Accessories Co., Inc., Greenwich, Conn.
Application March 14, 1952, Serial No. 18,887
Term of patent 14 years
(Cl. D45—4)



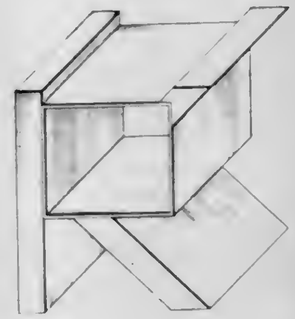
The ornamental design for an expansible link chain for a wristband or similar article, as shown and described.

169,786
STOCKING
Isidor Rabinowitz, Philadelphia, Pa.
Application December 12, 1952, Serial No. 22,667
Term of patent 14 years
(Cl. D47—7)



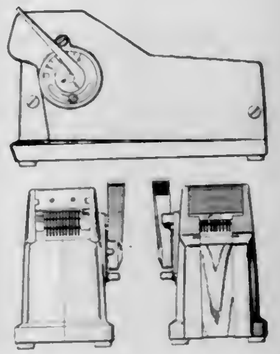
The ornamental design for a stocking, as shown.

169,787
TELEVISION CABINET OR SIMILAR ARTICLE
Randall Rasmussen, Orem, Utah, assignor of one-sixth to Willard J. Hirst, one-sixth to Neils L. Rasmussen, both of Orem, one-sixth to Louis M. Wolsey, one-sixth to Sheldon F. Hirst, both of Prova, and one-sixth to Rex J. Wolsey, Springville, Utah
Application February 4, 1952, Serial No. 18,358
Term of patent 14 years
(Cl. D33—1)

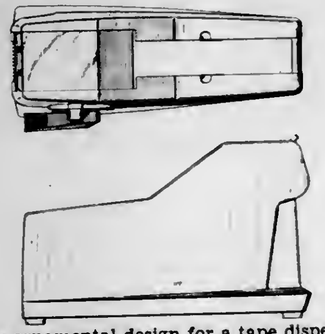


The ornamental design for a television cabinet or similar article, as shown.

169,788
TAPE DISPENSER OR SIMILAR ARTICLE
Jean O. Reinecke, Oak Park, Ill., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application January 14, 1953, Serial No. 23,129
Term of patent 14 years
(Cl. D74—1)

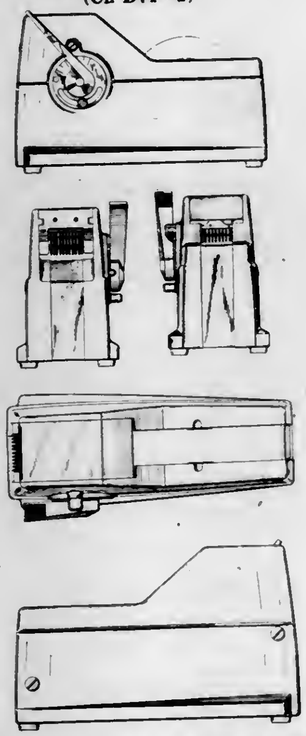


169,788—Continued



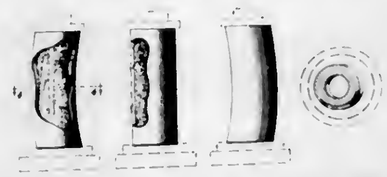
The ornamental design for a tape dispenser or similar article, substantially as shown and described.

169,789
TAPE DISPENSER OR SIMILAR ARTICLE
Jean O. Reinecke, Oak Park, Ill., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application January 14, 1953, Serial No. 23,130
Term of patent 14 years
(Cl. D74—1)



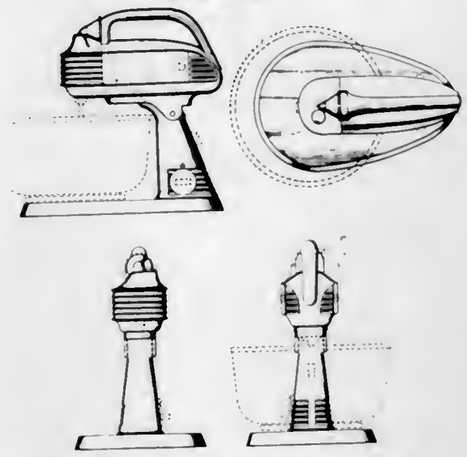
The ornamental design for a tape dispenser or similar article, substantially as shown and described.

169,790
LAMP BASE
John Roberts, Honolulu, Territory of Hawaii
Application July 1, 1952, Serial No. 20,428
Term of patent 14 years
(Cl. D48—20)



The ornamental design for a lamp base, as shown and described.

169,791
HOUSEHOLD FOOD MIXER
Howard H. Schott, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application December 8, 1952, Serial No. 22,602
Term of patent 14 years
(Cl. D44—1)



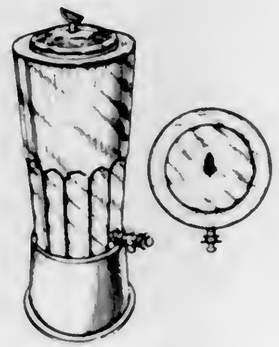
The ornamental design for a household food mixer, as shown and described.

169,792
COMB
William Sklavenitis, Geneva, Ill.
Application December 29, 1952, Serial No. 22,905
Term of patent 14 years
(Cl. D86—8)



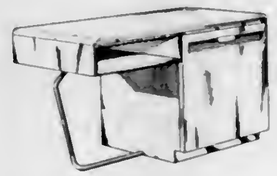
The ornamental design for a comb, as shown and described.

169,793
LIQUID DISPENSER
Edward H. Sieling, Chicago, Ill.
Application July 31, 1952, Serial No. 20,860
Term of patent 14 years
(Cl. D2—3)



The ornamental design for a liquid dispenser, as shown and described.

169,794
CABINET TABLE
Harry R. Trout and Frederick M. Hill, Pittsburgh, Pa., assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware
Application January 2, 1953, Serial No. 22,972
Term of patent 14 years
(Cl. D33—7)



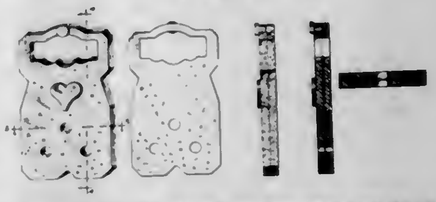
The ornamental design for a cabinet table, substantially as shown.

169,795
WALL CABINET
Harry R. Trout and Frederick M. Hill, Pittsburgh, Pa., assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware
Application January 2, 1953, Serial No. 22,973
Term of patent 14 years
(Cl. D33—19)



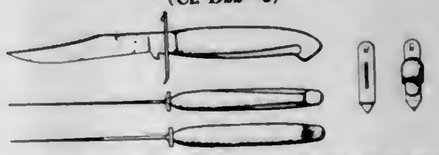
The ornamental design for a wall cabinet, substantially as shown.

169,796
SPONGE CLEANER OR THE LIKE
George Virneburg, New York, N. Y.
Application September 10, 1952, Serial No. 21,400
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a sponge cleaner or the like, substantially as shown.

169,797
KNIFE
William Dean Wallace, Syracuse, N. Y., assignor to Camillus Cutlery Company, Camillus, N. Y., a corporation of New York
Application November 14, 1951, Serial No. 17,376
Term of patent 7 years
(Cl. D22—3)



The ornamental design for a knife, as shown.

June 9, 1953 Volume 671 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

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SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

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PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business May 22, 1953

Total number of patent applications awaiting action, 98,010. Date of oldest new application, August 18, 1952; date of oldest amended application, August 8, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.	9-3-52	8-25-52	1466
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	9-26-52	9-10-52	1128
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	10-1-52	10-1-52	1924
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-5-52	9-4-52	1462
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	9-12-52	9-18-52	1011
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-18-52	8-13-52	2602
6. SURLE, H., Carbon Chemistry (part)	9-4-52	9-2-52	1542
7. GONSALVES, J. E., Optics; Photography (part)	10-2-52	10-1-52	1080
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	9-17-52	9-10-52	1250
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	9-18-52	9-24-52	1279
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	9-2-52	9-2-52	1132
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	9-1-52	9-1-52	1235
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	9-8-52	8-30-52	1278
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	9-12-52	9-12-52	1461
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	8-28-52	8-25-52	1712
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	9-9-52	9-5-52	1514
16. LOVEWELL, N. N., Television, Telephony	9-4-52	9-5-52	1598
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	10-6-52	9-10-52	691
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-8-52	8-25-52	1157
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	9-15-52	9-17-52	1294
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	9-5-52	9-2-52	1253
21. MADER, R. C., Textiles	9-15-52	9-15-52	924
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	9-8-52	8-27-52	850
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	10-15-52	10-17-52	1062
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	8-18-52	8-18-52	1250
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	9-22-52	9-22-52	1806
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	9-11-52	9-4-52	1187
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	9-23-52	9-9-52	1088
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	9-11-52	9-2-52	1173
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	10-20-52	10-20-52	1317
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	8-23-52	8-23-52	2436
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	10-3-52	10-6-52	1269
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-2-52	9-2-52	1823
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	9-9-52	9-9-52	1224
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	10-16-52	10-16-52	1126
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles	9-19-52	9-19-52	1081
36. McFADYEN, A. D., Measuring and Testing	9-19-52	9-26-52	1011
37. LEVY, M. L., Electricity—Switches, Welding, Heating; Recorders	9-10-52	9-9-52	1511
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	10-31-52	10-27-52	1609
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	12-1-52	12-1-52	998
40. DRUMMOND, E. J., Receptacles (part); Packages	10-18-52	10-3-52	848
41. GURLEY, R. B., Check Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.			

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection Signals; Telegraph (part); Signals and Indicators.	9-13-52	9-15-52	1071
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	9-16-52	9-15-52	1728
44. COBLE, A. S. (Acting), Beds; Chairs; Seats	9-15-52	9-13-52	1190
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	10-1-52	10-1-52	1332
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	8-27-52	8-28-52	1070
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	8-28-52	8-27-52	1636
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	9-5-52	9-4-52	1674
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	9-18-52	9-18-52	1302
50. BENGEL, W. G., Synthetic Resins; Rubber	10-30-52	10-30-52	1563
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Signaling); Radiant Energy Communications (part, e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	8-28-52	8-28-52	1509
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	10-13-52	10-13-52	1851
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	9-26-52	9-26-52	965
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	9-9-52	9-2-52	1821
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	9-15-52	9-8-52	964
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	10-2-52	10-3-52	1258
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-17-52	10-15-52	1628
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	9-9-52	9-25-52	1414
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	9-30-52	9-24-52	1399
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. STRIZAK, J. P. (Acting), Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	9-16-52	9-9-52	1003
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	10-1-52	10-1-52	1158
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	9-3-52	9-2-52	1845
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	8-25-52	8-25-52	1800
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	9-20-52	9-17-52	1350
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	9-3-52	9-10-52	830
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	9-24-52	9-17-52	1679
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	10-20-52	10-21-52	1370
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	9-20-52	9-15-52	1130
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	8-19-52	8-8-52	3297
DESIGNS: A—BREHM, G. L., Industrial Arts	1-23-53	1-30-53	907
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	1-23-53	2-9-53	699

Number of new applications received week ending May 8, 1953

PATENTS 1,319 DESIGNS 113 REISSUES 5 TOTAL 1,437

Total number of trade-mark applications awaiting action (including renewals and republications), 11,339. Date of oldest new application, Dec. 24, 1952; date of oldest amended application, Dec. 24, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	12-24-52	12-24-52	2893
II. SUMMERS, O. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	1-2-53	1-3-53	2580
Renewals (All Classes)	3-25-53	5-4-53	602
Republications (All Classes)	4-6-53	4-2-53	363
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	1-12-53	12-26-52	2574
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-8-53	1-2-53	2327

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 639,359, June 9. Class 18.

Alta Products Corporation, New York, N. Y. Slippers and bootees. Serial No. 636,673, June 9. Class 39.

American Muffler Co.: *See*—
Karpoff, Alex D.

Ames Company, Inc., Elkhart, Ind. Anti-spasmodic preparation. Serial No. 638,049, June 9. Class 18.

Anthony, C. R., Company, Oklahoma City, Okla. Woven fabric. Serial No. 632,236, June 9. Class 42.

Apex Tire & Rubber Co., Pawtucket, R. I. Plastic garden hose. Serial No. 640,664, June 9. Class 35.

Apex (Trinidad) Oilfields, Limited, London, England. Fluid control valves. Serial No. 635,372, June 9. Class 13.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Sun lotion. Serial No. 632,912, June 9. Class 51.

Armstrong Rubber Company, The, West Haven, Conn. Pneumatic tires, inner tubes and repair and treading materials therefor. Serial No. 633,748, June 9. Class 35.

Art Steel Sales Corporation, New York, N. Y. Letter trays; hinged cover card cabinets; filing cabinets; etc. Serial No. 637,029, June 9. Class 32.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Liquid synthetic rubber preparation adapted to be applied to a surface to form a rubber coating thereon. Serial No. 628,250, June 9. Class 16.

Atlas Powder Company, Wilmington, Del. Detonators. Serial No. 638,054, June 9. Class 9.

Augstein, S., & Co., Inc., College Point, N. Y. Corsets, girdles, panty girdles, etc. Serial No. 640,097, June 9. Class 39.

Austin, J. H., Company: *See*—
Austin, James H.

Austin, James H., doing business as J. H. Austin Company, Charlotte, N. C. Vitamin preparation. Serial Nos. 634,360–1, June 9. Class 18.

Axelson, J. Henry, doing business as Swedish Boy Bakery, Seattle, Wash. Bread. Serial Nos. 633,956–7, June 9. Class 46.

Aycock, Thomas J., Jr., doing business under the name and style of Vita Foods, Jacksonville, Fla. Mayonnaise, fruit preserves, and jelly. Serial No. 591,448, June 9. Class 46.

Baltimore Brushes, Inc., Baltimore, Md. Paint and varnish brushes. Serial No. 639,687, June 9. Class 29.

Baltimore Paint & Color Works, Baltimore, Md. Ready mixed house paint, paint and/or baking enamel, varnish, etc. Serial No. 547,606, June 9. Class 16.

Band-It Company, Denver, Colo. Industrial pressure clamps and parts thereof. Serial No. 552,409, June 9. Class 13.

Bandy, Keith K., doing business as Keith Laboratory, Cincinnati, Ohio. Preparation for external application. Serial No. 634,726, June 9. Class 18.

Barbet Mills, Inc., Lexington, N. C. Knitted fabrics. Serial No. 640,253, June 9. Class 42.

Barlow-Maney Laboratories, Cedar Rapids, Iowa. Preparation used in the treatment of high blood pressure. Serial No. 618,478, June 9. Class 18.

Beaton, J. R., Company, Inc., New York, N. Y. Women's full-fashioned hosiery. Serial No. 626,298, June 9. Class 39.

Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, etc. Serial No. 634,444, June 9. Class 39.

Becton Dickinson and Company, Rutherford and East Rutherford, N. J. Glass specimen tube. Serial No. 577,472, June 9. Class 33.

Begg, Norm, Co., Newport Beach, Calif. Fishing rods. Serial No. 627,863, June 9. Class 22.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. Serial No. 624,994, June 9. Class 2.

Black, Joseph, & Sons Company, York, Pa. Men's and boys' stockings. Serial No. 634,448, June 9. Class 39.

Block, Ferdinand H., doing business as Pfister Jewelry Company, New Iberia, La. Rosaries, crucifixes, and religious medals and chains. Serial No. 633,527, June 9. Class 28.

Borg-Warner Corporation, Chicago, Ill. Earth cutting and pulverizing discs. Serial No. 639,011, June 9. Class 23.

Briggs, O. J., Lumber Company, White Cloud, Mich. Fruit crates. Serial No. 640,907, June 9. Class 2.

Cabin Crafts, Inc., Dalton, Ga. Bath rugs and lid covers, bedspreads, and textile carpets and rugs. Serial No. 639,312, June 9. Class 42.

Camillus Cutlery Company, Camillus, N. Y. Pocket knives. Serial No. 639,014, June 9. Class 23.

Capital Industries, Inc., Portland, Oreg. Vehicle mounted hydraulically operated extensible and adjustable telescopic mast. Serial No. 626,559, June 9. Class 23.

Capital Plastics, Inc., Rochester, N. Y. Thermosetting resins. Serial No. 629,649, June 9. Class 6.

Capital Plastics, Inc., Rochester, N. Y. Thermosetting resins. Serial No. 630,387, June 9. Class 6.

Center Chemical Corporation, Cleveland, Ohio. Metal-surface coating compositions. Serial No. 628,191, June 9. Class 16.

Century Metalcraft Corporation, Los Angeles, Calif. Sterling silver flatware. Serial No. 642,870, June 9. Class 28.

Certoûs Limited, Hull, England. Adhesives. Serial No. 633,349, June 9. Class 5.

Chemical Rubber Co., The, Cleveland, Ohio. Fine chemicals. Serial No. 603,047, June 9. Class 6.

Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Polyvinyl acetate. Serial No. 633,822, June 9. Class 6.

Chew, John A., Incorporated, New York, N. Y. Acetone, carbon tetrachloride, caustic soda and trisodium phosphate. Serial No. 640,784, June 9. Class 6.

Chrome-Tec Distributing Company, Ferndale, Mich. Chemical composition in the form of a coating. Serial No. 625,340, June 9. Class 16.

Church & Dwight Co. Inc., New York and Syracuse, N. Y. Table salt. Serial No. 643,029, June 9. Class 46.

Claire Manufacturing Company, Chicago, Ill. Moth proofing preparation. Serial No. 635,998, June 9. Class 6.

Clinton Foods Inc., New York, N. Y. Quick frozen concentrated orange juice. Serial No. 635,872, June 9. Class 46.

Coladonato Bros., Hazleton, Pa. Racks. Serial No. 630,579, June 9. Class 32.

Coleman, Wm. B., Co., Incorporated, New Orleans, La. Hosiery. Serial No. 637,242, June 9. Class 39.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. Serial No. 628,396, June 9. Class 52.

Collins Hosiery Mill, Inc., East Bend, N. C. Bobby socks. Serial No. 635,953, June 9. Class 39.

Columbus Lumber Company, Brookhaven, Miss. Yellow pine and hardwood flooring, and hardwood and pine millwork. Serial No. 622,201, June 9. Class 12.

Compagnie Francaise des Matieres Colorantes, Paris, France. Chemical dyestuffs. Serial No. 634,074, June 9. Class 6.

Comptoir de l'Industrie Cotonniere Société à Responsabilité Limitée, Paris, France. Jewelry. Serial No. 619,485, June 9. Class 28.

Cone Mills Inc., New York, N. Y. Fabrics. Serial No. 638,099, June 9. Class 42.

Cone Mills Inc., New York, N. Y. Fabrics. Serial No. 639,205, June 9. Class 42.

Congoleum-Nairn Inc., Kearny, N. J. Flexible floor and wall coverings. Serial Nos. 633,664–5, June 9. Class 20.

Continental Motors Corporation, Muskegon, Mich. Gearing and transmissions and parts thereof. Serial No. 626,152, June 9. Class 23.

Cooper Tire & Rubber Company, Findlay, Ohio. Truck tires. Serial No. 644,101, June 9. Class 35.

Cooperstown Chemical, Inc., Cooperstown, N. Y. Detergent material. Serial No. 621,356, June 9. Class 52.

Country Products: *See*—
Hatton, William H.

Creek Chub Bait Company, The, Garrett, Ind. Artificial fish lures. Serial No. 628,347, June 9. Class 22.

Crook Paper Box Company, North Kansas City, Mo. Collapsible cardboard and paper boxes. Serial No. 633,609, June 9. Class 2.

Crossley, Henry, (Packings) Limited, Bolton, England. Fiber packing. Serial No. 642,952, June 9. Class 35.

Crown Zellerbach Corporation, San Francisco, Calif. Dispensing cabinets. Serial No. 629,889, June 9. Class 2.

Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, skirts, coats, etc. Serial No. 637,759, June 9. Class 39.

Curtis Manufacturing Company, St. Louis, Mo. Automobile washing outfits, rotating automobile lifts, single post and two post automobile lifts, etc. Serial No. 633,970, June 9. Class 23.

D-Con Company, Inc., The, Chicago, Ill. Rodenticide. Serial No. 628,616, June 9. Class 6.

Dallas Smith Corporation, Indianapolis, Ind. Cardboard chairs. Serial No. 639,721, June 9. Class 32.

Davidow, Inc., Sportswear, New York, N. Y. Ladies' and misses' dresses, dress ensembles, suits, etc. Serial Nos. 640,872–3, June 9. Class 39.

Davies Nitrate Co., Inc., New York, N. Y. Enriched organic plant food. Serial No. 614,291, June 9. Class 10.

Dean, Robert J., doing business as Radio-Games Service, New York, N. Y. Advertising the goods and services of others. Serial No. 606,370, June 9. Class 101.

De Beer, J., & Son, Albany, N. Y. Baseballs. Serial No. 624,079, June 9. Class 22.

De Land, C. M., New York, N. Y. Textile fabrics. Serial No. 638,478, June 9. Class 42.
Diamond Springs Lime Company, San Francisco, Calif. Lime for construction purposes. Serial No. 629,990, June 9. Class 12.
Diebold, Incorporated, Canton, Ohio. Safes and metal structures. Serial No. 639,747, June 9. Class 25.
Dieterich Products Corporation, Michigan City, Ind. Automobile anti-skid stabilizer. Serial No. 642,625, June 9. Class 19.
DoAll Company, The, Des Plaines, Ill. Tool steel. Serial No. 630,400, June 9. Class 14.
Doebler-Jarvis Corporation, Toledo, Ohio, assignor to National Lead Company, New York, N. Y. Castings of brass alloy. Serial No. 630,996, June 9. Class 14.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial Nos. 633,720–1, June 9. Class 12.
Drew, E. F., & Co. Inc., New York, N. Y. Liquid composition used for impregnating textile fibers. Serial No. 630,251, June 9. Class 8.
Dulken, Charles F., Kearny, N. J. Chemical liquid. Serial No. 625,587, June 9. Class 6.
Duo-Way Pharmacal Corporation, New York, N. Y. Medicinal preparations. Serial No. 639,986, June 9. Class 18.
Dupli-Color Products Co., Inc., Chicago, Ill. Clear acrylic spray used to waterproof, rustproof, and electrically insulate metallic surfaces. Serial No. 624,082, June 9. Class 21.
E-Z Est Products: *See*—
Sampson, Arnold.
Earle Hardware Manufacturing Company, Reading, Pa. Night latches, locks, and parts thereof. Serial No. 641,675, June 9. Class 25.
Edgeform Products Co.: *See*—
Greitzer, Meyer.
Edwal Scientific Products Corp., Ringwood, Ill. Photographic developer. Serial No. 630,589, June 9. Class 6.
Elastic Stop Nut Corporation of America, Union, N. J., assignee of Mid-Continent Metal Products Company. Spring pin fasteners. Serial No. 531,615, June 9. Class 13.
Ellison & Spring, Inc., New York, N. Y. Woven table cloths and woven table napkins. Serial No. 640,149, June 9. Class 42.
Erlen Products Company, Burbank, Calif. Shampoo. Serial No. 630,186, June 9. Class 52.
Escondido Lemon Association, Escondido, Calif. Fresh citrus fruit. Serial No. 545,109, June 9. Class 46.
Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Refined, semi-refined and unrefined petroleum oils and fractions for fuel, power, lighting, etc., purposes, and paraffin waxes. Serial No. 639,163, June 9. Class 15.
Expectation Shops, San Francisco, Calif. Maternity garments. Serial No. 637,514, June 9. Class 39.
Exportlists Försäljnings Aktiebolag, Nykoping, Sweden. Curtain poles, cornices for interior decorations, frames, etc. Serial No. 596,018, June 9. Class 32.
Farber Brothers, Inc., Memphis, Tenn. Automobile seat covers. Serial No. 639,693, June 9. Class 19.
Faxon, Warren E., doing business as Midland Dental Company, Chicago, Ill., assignor to Midland Pharmacal Company, New York, N. Y. Denture relining pads. Serial No. 600,377, June 9. Class 44.
Federal Cartridge Corporation, Minneapolis, Minn. Air rifle shot. Serial No. 638,954, June 9. Class 9.
Felicione, S., & Sons Fish Co., Incorporated, Tampa, Fla. Frozen shrimp and frozen snapper fingers. Serial No. 639,625, June 9. Class 46.
Fine Products Corporation, Augusta, Ga. Candy. Serial No. 637,768, June 9. Class 46.
Finger Lakes Chemical Company, Inc., Etna, N. Y. Emulsion product for washing machined metal parts. Serial No. 629,605, June 9. Class 52.
Fink's Jewelers, Inc., Roanoke, Va. Watches. Serial No. 640,618, June 9. Class 27.
Firestone Tire & Rubber Company, The, Akron, Ohio. Material in the nature of artificial leather. Serial No. 638,708, June 9. Class 50.
Firma D. van Creveld: *See*—
Frenk, Salomon.
Fishkop, Martin, & Co., St. Louis, Mo. Ladies' and misses' skirts. Serial No. 638,337, June 9. Class 39.
Flint Company, Kansas City, Mo. Articles of jewelry. Serial No. 629,099, June 9. Class 28.
Foilrapp, Inc., Seattle, Wash. Aluminum foil. Serial Nos. 638,251–2, June 9. Class 14.
Foote Mineral Company, Philadelphia, Pa. Dry, completely soinble household bleaching agent. Serial No. 629,939, June 9. Class 6.
Foote Mineral Company, Philadelphia, Pa. Chemical-metallurgical preparation. Serial No. 633,358, June 9. Class 6.
Frenk, Solomon, doing business as Firma D. van Creveld, Rotterdam, Netherlands. Canned cooked ham. Serial No. 634,638, June 9. Class 46.
Futura Corporation, Chicago, Ill. Glassware. Serial No. 637,177, June 9. Class 33.
Gaubeart, Katie R., York, Pa. Ladies' hosiery. Serial No. 635,085, June 9. Class 39.
Gaymont Laboratories, Inc., Chicago, Ill. Toilet soap, liquid and cream shampoo, and cleaning preparations. Serial No. 620,154, June 9. Class 52.
General Jobbing Co. Inc., Oklahoma City, Okla. Wiping cloths. Serial No. 641,775, June 9. Class 29.
General Motors Corporation, Detroit, Mich. Automobiles. Serial No. 644,297, June 9. Class 19.
Glida Audrey Products, Inc., New York, N. Y. Cold wave solution. Serial No. 619,327, June 9. Class 51.
Goldblatt Bros. Inc., Chicago, Ill. Automobile seat covers. Serial No. 642,219, June 9. Class 19.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Pneumatic tires, inner tubes, tire and tube repair materials. Serial No. 582,287, June 9. Class 35.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Water bottles, fountain syringes, hospital sheeting, etc. Serial No. 582,280, June 9. Class 44.
Goodwin, Louise C., Arlington, Tex. Ceramic dolls. Serial No. 638,532, June 9. Class 22.
Greitzer, Meyer, doing business as Edgeform Products Co., Los Angeles, Calif. Chairs, tables, buffets, etc. Serial No. 632,160, June 9. Class 32.
Griffith Laboratories, Inc., The, Chicago, Ill. Seasoning composition. Serial No. 613,814, June 9. Class 46.
Gross, Milton, Beverly Hills, Calif. Comic strips. Serial No. 635,034, June 9. Class 38.
Grothman, Gustav, doing business as The Veneer Tile Products Co., Miami, Fla. Floor and wall tile, building fronts, window sills, etc. Serial No. 582,784, June 9. Class 12.
Gruen Watch Company, The, Cincinnati, Ohio. Watch bracelets. Serial No. 637,584, June 9. Class 28.
Gummed Products Company, The, Troy, Ohio. Moisture sensitive adhesive tapes. Serial No. 620,916, June 9. Class 5.
Hall Broadcasting and Television Company, Inc., doing business as Palmetto Broadcasting System, and/or Palmetto Network, Anderson, S. C.. Broadcasting of radio and television programs. Serial No. 608,000, June 9. Class 104.
Hal-Pro Processing Company, Patton, Pa. Disinfectant, deodorant, and germicide. Serial No. 637,049, June 9. Class 6.
Hamilton Watch Company, Lancaster, Pa. Watches. Serial No. 627,262, June 9. Class 27.
Hanes, P. H., Knitting Company, Winston-Salem, N. C. Underwear. Serial No. 636,417, June 9. Class 39.
Hardy Herbs: *See*—
Hardy, Sherman K.
Hardy, Sherman K., doing business as Hardy Herbs, Lexington, Mass. Fresh onions. Serial No. 635,766, June 9. Class 46.
Harodite Finishing Company, Inc., The, North Dighton, Mass. Textile piece goods. Serial No. 640,397, June 9. Class 42.
Hartford Battery Corporation: *See*—
Vanity Fair Corporation.
Hatton, William H., doing business as Country Products, Morgan, Vt. Table syrup. Serial No. 618,294, June 9. Class 46.
Healthways, Los Angeles, Calif. Rubber horseshoes. Serial No. 632,840, June 9. Class 22.
Her Majesty Underwear Company, Leola, Pa., and New York, N. Y. Women's underwear, nightgowns, and pajamas, slips, etc. Serial No. 631,615, June 9. Class 39.
Heyden Chemical Corporation, New York, N. Y. Local anesthetic. Serial No. 624,597, June 9. Class 18.
Hollingshead, R. M., Corporation, Camden, N. J. Degreasing compound. Serial No. 624,547, June 9. Class 52.
Hollymade Hardware Mfg. Co., Los Angeles, Calif. Builders hardware—namely, locks, latches, and locking bolts. Serial No. 625,105, June 9. Class 25.
Hollywood-Maxwell Company, Los Angeles, Calif. Brassières. Serial No. 640,633, June 9. Class 39.
Home Maintenance Service, Inc., Hutchinson, Kans. Electrically operated vaporizing unit. Serial No. 628,694, June 9. Class 21.
Horn & Hardart Baking Co., Philadelphia, Pa. Coffee and beverage chocolate. Serial No. 550,399, June 9. Class 46.
House for Men, Inc., The, Chicago, Ill. Cologne deodorant stick. Serial No. 629,895, June 9. Class 51.
House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. Serial No. 634,595, June 9. Class 42.
House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. Serial No. 635,183, June 9. Class 42.
Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. Serial No. 639,823, June 9. Class 19.
Hullhorst, Chas. E., doing business as Chas. E. Hullhorst Co., Cleveland, Ohio. Potting soil and humus for house plants. Serial No. 635,308, June 9. Class 1.
Hullhorst, Chas. E., Co.: *See*—
Hullhorst, Chas. E.
Industrial Chemical Laboratories, Inc., Omaha, Nebr. Protective finishing coatings. Serial No. 613,311, June 9. Class 16.
Inglco Incorporated, Tucson, Ariz. Gas diffusers. Serial No. 633,108, June 9. Class 23.
Inland Fire Brick Company, The, Cleveland, Ohio. Plastic fire brick. Serial No. 618,263, June 9. Class 12.

International Minerals & Chemical Corporation, Chicago, Ill. Cough syrup. Serial No. 639,996, June 9. Class 18.
International Silver Company, The, Meriden, Conn. Stainless steel flatware. Serial No. 630,134, June 9. Class 23.
Ives, James, & Co. Limited, Yeadon, near Leeds, England. Textile piece goods. Serial No. 635,134, June 9. Class 42.
Jablow Manufacturing Co., Inc., New York, N. Y. Lockets, neck chains, crosses, etc. Serial No. 623,106, June 9. Class 28.
Jacobson Machine Works, Minneapolis, Minn. Beater blade. Serial No. 627,067, June 9. Class 23.
Jacoby-Bender, Inc., New York, N. Y. Watch bracelets Serial No. 639,646, June 9. Class 28.
Jaygo Chemical Co., Brooklyn, N. Y. Insecticides, space deodorants. Serial No. 640,738, June 9. Class 6.
Jeanne Noël: *See*—
Liebenguth, Jeanne.
Johns-Manville Corporation, New York, N. Y. Flat asbestos-cement pallets. Serial No. 628,278, June 9. Class 50.
Johnson, Gladys M., Timber, Oreg. Playing card holder. Serial No. 633,203, June 9. Class 22.
Joseph's, Portland, Oreg. Window and shower curtains, ruffling for rodless curtains, and tablecloths. Serial No. 626,208, June 9. Class 42.
Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 638,087, June 9. Class 42.
Karpoff, Alez D., doing business as American Muffler Co., Boston, Mass. Combination key ring, chain, and emblem. Serial No. 637,996, June 9. Class 13.
Kayser, Julius, & Co., New York, N. Y. Hosiery. Serial No. 636,852, June 9. Class 39.
Keith Laboratory: *See*—
Bandy, Keith K.
Kelly, Marcus G., San Diego, Calif. Maternity articles of apparel. Serial No. 632,091, June 9. Class 39.
Kemp, Albert, Boone, N. C. Hair bleaching powder. Serial No. 608,708, June 9. Class 51.
Kerr's Butter Scotch, Inc., Jamesburg, N. J. Candy. Serial No. 559,159, June 9. Class 46.
Kidde Manufacturing Co., Inc., Bloomfield, N. J. Tubal insufflators; apparatus for converting compressed or liquefied carbon dioxide into solid carbon dioxide. Serial Nos. 619,088–9, June 9. Class 44.
Kraus, Herman J., doing business under the name Kraus Ribbon and Carbon Company, Pittsburgh, Pa. Carbon papers and inked ribbons. Serial No. 624,602, June 9. Class 11.
Kraus Ribbon and Carbon Company: *See*—
Kraus, Herman J.
Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Watch bands. Serial No. 642,885, June 9. Class 28.
Lachman, Charles, Co., Inc., Phoenixville, Pa. Linings and cushions for rugs and carpets. Serial No. 609,485, June 9. Class 50.
Lambert Manufacturing Co., Trenton, N. J. Hand luggage. Serial No. 622,664, June 9. Class 3.
Larus & Brother Company, Richmond, Va. Cigarettes. Serial No. 638,801, June 9. Class 17.
Lasko Strap Company, New York, N. Y. Wrist-watch straps. Serial No. 626,253, June 9. Class 28.
Lawrence, Norman J., doing business as Lawrence of London, New York, N. Y. Ladies' raincoats and ladies' coats. Serial No. 630,086, June 9. Class 39.
Lawrence of London: *See*—
Lawrence, Norman J.
Liebenguth, Jeanne, doing business as Jeanne Noël, Grasse, France, and New York, N. Y. Perfumes. Serial No. 625,912, June 9. Class 51.
Litkenhous, E. E., doing business as Litko Products and Chemical Company, Nashville, Tenn. Fine chemicals and oil-chemical mixtures. Serial No. 630,274, June 9. Class 6.
Litko Products and Chemical Company: *See*—
Litkenhous, E. E.
Live Food Products Co., Burbank, Calif. Hematinic and vitamin preparation. Serial No. 627,449, June 9. Class 18.
Lubin-Weeker Co., Inc., New York, N. Y. Ladies' and men's pajamas. Serial No. 634,048, June 9. Class 39.
Lucky Hand Company, Atlanta, Ga. Perfumed bath water and bath salts, body deodorants, etc. Serial No. 629,246, June 9. Class 51.
Mara Laboratories, Inc., The, Harrison, N. J. Medicinal preparation. Serial No. 640,183, June 9. Class 18.
Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. Serial No. 635,370, June 9. Class 31.
Marshall Mill & Elevator Company, Marshall, Tex. Feed and dog food. Serial No. 638,005, June 9. Class 46.
Masonite Corporation, Chicago, Ill., and Laurel, Miss. Hemi-cellulose material. Serial No. 621,409, June 9. Class 1.
Mayrath Machinery Co., Inc., Dodge City, Kans. Mobile power-operated grain loaders. Serial No. 634,600, June 9. Class 23.
McDonald, A. Y., Mfg. Co., Dubuque, Iowa. Shallow and deep well reciprocating pumps, jet pumps, cellar pumps, etc. Serial No. 621,274, June 9. Class 23.
McMahon, Robert E., doing business as Sentinel Manufacturing Co., Seattle, Wash. Corrosion inhibiting anode assemblies. Serial No. 631,489, June 9. Class 21.
Metz Pharmacal Company, Linden, N. J. Medicinal preparation. Serial No. 635,046, June 9. Class 18.
Mid-Continent Metal Products Company: *See*—
Elastic Stop Nut Corporation of America.
Midland Dental Company: *See*—
Faxon, Warren E.
Midland Pharmacal Company, assignee: *See*—
Faxon, Warren E.
"Mines" Centrala Eksportowo-Importowa Wytworow Przemyslu Mineralnego Przedsiebiorstwo Panstwowe, Warsaw, Poland. Crystal table ware. Serial No. 630,367, June 9. Class 33.
Modern Sales Company, Los Angeles, Calif. Packaged set containing a measuring jigger, and a combination ice pick, bottle opener, etc. Serial No. 640,953, June 9. Class 50.
Monsanto Chemical Company, St. Louis, Mo. Chemicals. Serial No. 636,025, June 9. Class 6.
Montenier, Jules, Chicago, Ill. Preparation for the treatment of hair. Serial No. 622,269, June 9. Class 51.
Mullins Manufacturing Corporation, Salem and Warren, Ohio. Kitchen cabinets. Serial No. 623,668, June 9. Class 32.
Murena, Joseph A., New York, N. Y. Liquid preparation for cleaning and polishing footwear. Serial No. 605,433, June 9. Class 4.
Nashua Corporation, Nashua, N. H. Adhesively coated paper tape. Serial No. 636,142, June 9. Class 5.
Nathan Straus-Duparquet, Inc., New York, N. Y. Cooking equipment. Serial No. 603,263, June 9. Class 34.
National Lead Company, assignee: *See*—
Doebler-Jarvis Corporation.
National Rubber Machinery Company, Akron, Ohio. Vulcanizing machines. Serial No. 638,153, June 9. Class 23.
National Rural Electric Cooperative Association, Washington, D. C. Designing, preparing, and distributing advertising and promotional materials. Serial Nos. 628,643–4, June 9. Class 101.
New York Feather Co., Inc., New York and Brooklyn, N. Y. Foam rubber bed pillows, cushions, throw pillows, etc. Serial No. 638,600, June 9. Class 32.
Nidis Botanical Garden, New York, N. Y. Soap. Serial No. 633,268, June 9. Class 52.
Noritake Co., Inc., New York, N. Y. Dinnerware and tableware made of china. Serial Nos. 639,235–6, June 9. Class 30.
Outboard, Marine & Manufacturing Company, Waukegan, Ill. Outboard motors and parts. Serial No. 630,906, June 9. Class 23.
Packard Motor Car Company, Detroit, Mich. Automotive vehicles. Serial No. 634,214, June 9. Class 19.
Palmetto Broadcasting System: *See*—
Hall Broadcasting and Television Company, Inc.
Palmetto Network: *See*—
Hall Broadcasting and Television Company, Inc.
Parker Rust Proof Company, Detroit, Mich. Phosphate coating composition. Serial No. 635,882, June 9. Class 16.
Patterson-Sargent Company, The, Cleveland, Ohio. Ready-mixed paint. Serial No. 639,240, June 9. Class 16.
Pelahatchie Poultry Company, Pelahatchie, Miss. Dressed poultry. Serial No. 636,602, June 9. Class 46.
Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Fluid conduit couplings. Serial Nos. 623,622–3, June 9. Class 13.
Perfect Circle Corporation, Hagerstown, Ind. Machines for providing an interrupted peripheral surface on cylindrical objects. Serial No. 638,155, June 9. Class 23.
Perry Peat Company, Morrice, Mich. Peat, peat moss, and blended potting soil. Serial No. 631,374, June 9. Class 1.
Petrak, Rudolf, Greenwich, Conn. Grooved phonograph records. Serial No. 632,324, June 9. Class 36.
Petrolite Corporation, Webster Groves, Mo. Demulsifier. Serial No. 639,829, June 9. Class 6.
Pfister Jewelry Company: *See*—
Block, Ferdinand H.
Phoenix Hosiery Company, Milwaukee, Wis. Women's hosiery. Serial No. 630,339, June 9. Class 39.
Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Coal. Serial No. 637,460, June 9. Class 1.
Potter Drug & Chemical Corporation, Malden, Mass. Shampoo. Serial No. 604,545, June 9. Class 52.
Prire-Driscoll Corporation, New York, N. Y. Portable gasoline can. Serial No. 636,652, June 9. Class 2.
Putt-Master, Phoenix, Ariz. Golf putters. Serial No. 643,371, June 9. Class 22.
Quaker China of Salem, Inc., Salem, Ohio. Semi-vitreous china. Serial No. 638,870, June 9. Class 30.
Quaker Rubber Corporation, Philadelphia, Pa. Lawn hose. Serial No. 637,084, June 9. Class 35.
Quell Products Company, The, Arlington, Va. Toy kits. Serial No. 558,066, June 9. Class 22.
Radio-Games Service: *See*—
Dean, Robert J.
Ralston Purina Company, St. Louis, Mo. Water disinfectant. Serial No. 612,825, June 9. Class 6.
Ramirez & Peraud Chili Co., Ventura, Calif. Canned roasted and peeled green chili peppers, canned red chili sauce, canned green chili sauce, etc. Serial No. 642,994, June 9. Class 46.

Reflectone Corporation, The, Stamford, Conn. Furniture. Serial No. 638,102, June 9. Class 32.
Republic Steel Corporation, assignee: *See*—
Truscon Steel Company.
Resistant Lubricant Co. of America: *See*—
Schwager, Henry A., Jr.
Rheinische Rohrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany. Metal roof frame works. Serial No. 634,862, June 9. Class 12.
Roberts Manufacturing Co., Cleburne, Tex. Electrically operated oscillating evaporative room cooler. Serial No. 633,076, June 9. Class 34.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Valves operated by an electromagnet. Serial No. 626,417, June 9. Class 21.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Metal valves and cocks. Serial No. 626,418, June 9. Class 13.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Valves operated by an electromagnet. Serial No. 626,419, June 9. Class 21.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Combined pilot and main burner gas valves. Serial No. 626,420, June 9. Class 34.
Rohm & Haas Company, Philadelphia, Pa. Synthetic resinous materials. Serial No. 630,443, June 9. Class 6.
Rohm & Haas Company, Philadelphia, Pa. Material for use in removing or replacing ions or acid-forming constituents from fluids. Serial No. 635,663, June 9. Class 6.
Rothenberg & Schloss Cigar Company, Kansas City, Mo. Pipe tobacco. Serial No. 637,951, June 9. Class 17.
Rubin-Meltzer Company, New York, N. Y. Cotton knit underwear. Serial No. 631,579, June 9. Class 39.
S & S Industries, Chicago, Ill. Metal trays for attachment to the dashboards of automobiles. Serial No. 627,645, June 9. Class 19.
Sampson, Arnold, doing business under the name and style of E-Z Est Products, Oakland, Calif. Preparation for removing tarnish from brass, etc. Serial No. 636,740, June 9. Class 52.
Schering Corporation, Bloomfield, N. J. Anti-histamine preparation. Serial No. 639,718, June 9. Class 18.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Textile fabrics. Serial No. 629,060, June 9. Class 42.
Schuman-Anderholt Co., Holtsville, Calif. Fresh vegetables. Serial No. 642,997, June 9. Class 46.
Schwager, Henry A., Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich. Industrial hand cream. Serial No. 614,168, June 9. Class 51.
Schwarz, F. A. O., New York, N. Y. Games, toys, sporting goods. Serial No. 631,440, June 9. Class 22.
Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. Serial No. 629,525, June 9. Class 36.
Semans, Thomas B., Jr., Philadelphia, Pa. Golf balls. Serial No. 616,051, June 9. Class 22.
Sentinel Manufacturing Co.: *See*—
McMahon, Robert E.
Sharp & Dohme Incorporated, Philadelphia, Pa. Medicinal preparation. Serial No. 638,017, June 9. Class 18.
Sharples Chemicals Inc., Philadelphia, Pa. Liquid nonionic synthetic detergents. Serial No. 614,579, June 9. Class 52.
Shelby Spring Hinge Company, The, Shelby, Ohio. Floor hinges, door hinges, push plates, etc. Serial No. 637,195, June 9. Class 13.
Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's skating shoes. Serial No. 642,244, June 9. Class 22.
Singer-Cohen Inc., New York, N. Y. Brooches. Serial No. 641,696, June 9. Class 28.
Singer Manufacturing Company, The, Elizabeth, N. J. Hand sewing needles; needle cases; needle threaders; etc. Serial No. 630,165, June 9. Class 40.
Skagga Mfg. Co., Inc., Memphis, Tenn. Metal awnings. Serial No. 634,866, June 9. Class 12.
Smithson, Arthur D., doing business under the assumed name of Smithson Cold Storage Door Repair Service, Syracuse, N. Y. Cold storage door gaskets. Serial No. 616,516, June 9. Class 35.
Smithson Cold Storage Door Repair Service: *See*—
Smithson, Arthur D.
Smitsvonk N. V., The Hague and Rijswijk (Z.-H.), Netherlands. Parts of low tension capacitive automotive ignition apparatus. Serial No. 614,016, June 9. Class 21.
Snyder Chemical Corporation, Bethel, Conn. Polymerizable casting materials. Serial No. 627,845, June 9. Class 6.
Southern Mills, Atlanta, Ga. Cotton fabric cut to size as used on ironer rolls, cotton knitted padding for flat work ironer rolls, etc. Serial No. 629,063, June 9. Class 24.
Stadler Fertilizer Company, The, Cleveland, Ohio. Fertilizer. Serial No. 639,725, June 9. Class 10.
Stanley Home Products, Inc., Westfield, Mass. Automobile polishes, metal polishes, polishing waxes, etc. Serial No. 597,789, June 9. Class 4.
Stanley Home Products, Inc., Westfield, Mass. Liquid surgical hand soap. Serial No. 629,968, June 9. Class 52.
Stanley Home Products, Inc., Westfield, Mass. Liquid scrubbing soap. Serial No. 629,973, June 9. Class 52.
Stanton, E. J., & Son, Inc., Vernon, Calif. Hard and soft wood paneling. Serial No. 626,477, June 9. Class 12.
Stern Brothers, New York, N. Y. Umbrellas, parasols, and canes. Serial No. 639,522, June 9. Class 41.
Stern Brothers, New York, N. Y. Babies' crib blankets. Serial No. 640,311, June 9. Class 42.
Steven, Glenn A., doing business under the firm name Steven Motor Chair Co., Kansas City, Kans. Electric motor-propelled chair vehicles. Serial No. 632,758, June 9. Class 19.
Steven Motor Chair Co.: *See*—
Steven, Glenn A.
Stout, Pola, Inc., New York, N. Y. Woolen and worsted fabrics. Serial No. 634,952, June 9. Class 42.
Strong Cobb & Company, Inc., Cleveland, Ohio. Sedative preparation. Serial No. 639,790, June 9. Class 18.
Strong Cobb & Company, Inc., Cleveland, Ohio. Sedative preparation. Serial No. 639,792, June 9. Class 18.
Strouse, Adler Company, The, New Haven, Conn. Women's girdles, panty girdles, and combinations or one piece foundation garments. Serial No. 636,750, June 9. Class 39.
Sturgis Posture Chair Company, Sturgis, Mich. Chairs. Serial No. 630,800, June 9. Class 32.
Sunbeam Corporation, Chicago, Ill. Animal grooming machines. Serial No. 595,088, June 9. Class 23.
Superior Sewing Machine and Supply Corp., New York, N. Y. Tailor and household shears, folding shears, thread clipping shears, etc. Serial No. 638,501, June 9. Class 23.
Swedish Boy Bakery: *See*—
Axelson, J. Henry.
Sweet, Dale F., Chandler, Ariz. Toy. Serial No. 627,781. June 9. Class 22.
Swivelier Company, Inc., New York, N. Y. Swivel joints whereby adjacent ends of arms for electrical lighting fixtures are joined. Serial No. 623,921, June 9. Class 21.
Synthetic Chemicals, Inc., Paterson, N. J. Colloidal penetrating agent. Serial No. 643,734, June 9. Class 6.
Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 639,346, June 9. Class 42.
Textile Engineering Corpocation, Whitman, Mass. Textile spinning machinery. Serial No. 635,070, June 9. Class 23.
Timken Roller Bearing Company, The, Canton, Ohio. Turned and bored steel bars. Serial No. 638,820, June 9. Class 14.
Tin Pan Alley, Inc., New York, N. Y. Grooved phonograph records. Serial No. 627,850, June 9. Class 36.
Toidey Company, Gertruda A. Muller, Inc., The, Fort Wayne, Ind. Toilet seat attached to an adult toilet seat, and anti-splash deflector, etc. Serial No. 634,224, June 9. Class 13.
Tornek, Allen V., doing business as Allen V. Tornek Co., New York, N. Y. Watch bearing plates. Serial No. 640,977, June 9. Class 27.
Tornek, Allen V., Co.: *See*—
Tornek, Allen V.
Towle Manufacturing Company, Newburyport, Mass. Sterling silver and sterling silver mounted flatware and table cutlery. Serial Nos. 641,873–4, June 9. Class 28.
Tradcante, Minneapolis, Minn. Accordions. Serial No. 628,069, June 9. Class 36.
Transmission & Gear Co., The, Dearborn, Mich. Concrete mixers. Serial No. 637,095, June 9. Class 23.
Trerice, H. O., Co.: *See*—
Trerice, Howard O.
Trerice, Howard O. doing business as H. O. Trerice Co., Detroit, Mich. Filters; filter casings; and stone filters. Serial No. 628,014, June 9. Class 31.
Trozler-Lynch Hosiery Company, Springfield, Ill. Ladies' and misses' hosiery. Serial No. 634,667, June 9. Class 39.
Truitt Brothers, Inc., Belfast, Maine. Boys' and men's shoes. Serial No. 636,400, June 9. Class 39.
Truscon Steel Company, Youngstown, assignor to Republic Steel Corporation, Cleveland, Ohio. Windows. Serial No. 629,266, June 9. Class 12.
Ulmann, Bernhard, Co. Inc., Long Island City, N. Y. Art needlework yarns. Serial No. 640,591, June 9. Class 43.
Union Liniere d'Exportation, S. A. R. L., Paris, Seine, France. Linen fabrics. Serial No. 630,043, June 9. Class 42.
Upjohn Company, The, Kalamazoo, Mich. Water-insoluble salt of penicillin. Serial No. 636,101, June 9. Class 18.
Vacuum Metals Corporation, Cambridge, Mass. Iron, steel, and iron base alloys. Serial No. 637,096, June 9. Class 14.
Van Cleef Bros. Inc., Chicago, Ill. Sponge rubber weatherstrips. Serial No. 632,458, June 9. Class 12.
Vanity Fair Corporation, Waltham, Mass., now by change of name Hartford Battery Corporation. Storage batteries. Serial No. 620,943, June 9. Class 21.
Vannozzi, Lawrence, doing business under the trade name of Wonder Chemical Co., Trenton, N. J. Compound in the nature of a disinfectant, bleach, cleanser and deodorant. Serial No. 627,784, June 9. Class 52.
Van Waters & Rogers, Inc., Seattle, Wash. Anti-freeze solutions. Serial No. 637,159, June 9. Class 6.
Veneer Tile Products Co., The: *See*—
Grothman, Gustav.

Victrylite Candle Company, Oshkosh, Wis. Candlesticks and candle lamps. Serial No. 626,836, June 9. Class 34.
Vindobona Importing Co.: *See*—
Zelinka, Hans G.
Vita Foods: *See*—
Aycock, Thomas J., Jr.
Vitamin Industries, Inc., Omaha, Nebr. Vitamin dietary supplements. Serial No. 626,126, June 9. Class 18.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Laundry appliances. Serial No. 633,814, June 9. Class 24.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Acetylcellulose. Serial No. 635,574, June 9. Class 1.
Waldron, John, Corporation, Highland Park, N. J. Web fed, rotary, offset printing presses. Serial No. 641,587, June 9. Class 23.
Ward Brothers Manufacturing Company, Monticello, Ark. Row boats, outboard power boats, and outboard cruisers. Serial No. 642,104, June 9. Class 19.
Watkins, J. R., Company, The, Winona, Minn. Column heading appearing periodically in publications. Serial No. 633,896, June 9. Class 38.
Weather Products Corporation, Providence and Warwick, R. I. De-humidifiers. Serial No. 631,512, June 9. Class 34.
Webster, William A., Company, The, Memphis, Tenn. Cold germicidal concentrate. Serial No. 637,897, June 9. Class 6.
Weiner, Lewis, doing business as Lewis Weiner Engineering Co., Long Island City, N. Y. Hookless fasteners, stringers, and sliders. Serial No. 639,599, June 9. Class 13.
Weiner, Lewis, Engineering Co.: *See*—
Weiner, Lewis.
Weir, William J., Devon, Conn. Table game. Serial No. 631,333, June 9. Class 22.
White, David, Company, Milwaukee, Wis. Photographic equipment and accessories for stereoscopic cameras, photographic equipment and accessories for stereoscopic projectors, etc. Serial No. 619,483, June 9. Class 26.
Woburn Chemical Corp. (N. J.), Harrison, N. J. Sty-renated dehydrated castor oil. Serial No. 606,353, June 9. Class 6.
Wonder Chemical Co.: *See*—
Vannozzi, Lawrence.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Water softening compound. Serial No. 643,989, June 9. Class 6.
Yarnell, John D., Edmonds, Wash. Separate screens. Serial No. 636,668, June 9. Class 13.
Zelinka, Hans G., doing business as Vindobona Importing Co., New York, N. Y. Trowels. Serial No. 628,076, June 9. Class 23.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Antibiotic troche. 575,403, June 9; Serial No. 621,114, published Mar. 3, 1953. Class 18.
Abbott Laboratories, North Chicago, Ill. Collapsible plastic tube adapted for use with a hypodermic needle. 575,536, June 9; Serial No. 630,107, published Mar. 10, 1953. Class 44.
Abbott Laboratories, North Chicago, Ill. Composition having hypnotic sedative anesthetic and cerebral stimulating properties. 575,625, June 9; Serial No. 634,178, published Mar. 3, 1953. Class 18.
Abbott Laboratories, North Chicago, Ill. Water purification compound. 575,664, June 9; Serial No. 635,868, published Mar. 17, 1953. Class 6.
Abramowitz, Curt E., Brooklyn, N. Y. Medicinal tooth powder. 575,436, June 9; Serial No. 617,180, published Feb. 17, 1953. Class 18.
Abramowitz, Curt E., doing business under the name of Perle Bright Manufacturing Co., Brooklyn, N. Y., now by judicial change of name C. M. Belmont. Laundry washing compound. 575,719, June 9; Serial No. 617,179. Class 52.
Aerodyne Corporation, Detroit, Mich. Dust separators. 575,385, June 9; Serial No. 600,245, published Feb. 24, 1953. Class 23.
Agar-Lac, Inc., to Etna Chemical Company, Inc., New York, N. Y. Constipation remedy. 90,083, re-renewed Feb. 4, 1953. O. G. June 9. Class 18.
Aktiebolaget Urfabriken, Svangsta, Sweden. Fishing implements. 575,634, June 9; Serial No. 634,513, published Mar. 24, 1953. Class 22.
Alaska Fertilizer Company: *See*—
Wolf, E. J.
Allegheny Ludlum Steel Corporation: *See*—
Forging and Casting Corporation, The.
Alpine Ice Cream Co., Inc., Corona, by Bungalow Bar Corporation of America, New York, N. Y. Ice cream. 302,742, Apr. 25, 1933. Repoblished June 9. Class 46.
American Beauty Macaroni Co., The, Kansas City, Mo. Prepared cooked and canned products of alimentary paste. 575,642, June 9; Serial No. 634,724, published Mar. 24, 1953. Class 46.
American Hard Rubber Company, Hempstead and New York, N. Y. Solid rubber pipe and fittings. 575,550, June 9; Serial No. 629,644, published Mar. 24, 1953. Class 35.
American Home Products Corporation, assignee: *See*—
Wyeth Incorporated.
American Laundry Machinery Company, The, Cincinnati, Ohio. Dry cleaning machine. 575,732, June 9; Serial No. 627,858. Class 24.
American Lumberman, Inc., Chicago, Ill. Magazine. 575,492–3, June 9; Serial Nos. 623,638–9, published Mar. 10, 1953. Class 38.
American Reenforced Paper Company, Attleboro, Mass. Sisal fiber matting. 575,372, June 9; Serial No. 583,635, published Mar. 10, 1953. Class 1.
American Scientific Laboratories, Inc., Madison, Wis. Insecticide. 575,617, June 9; Serial No. 633,699, published Mar. 17, 1953. Class 6.
Anchor Casualty Company, St. Paul, Minn. Underwriting of insurance. 575,693, June 9; Serial No. 584,378, published Mar. 17, 1953. Class 102.
Anderson, Clayton & Co., Sherman, Tex. Vegetable oil shortening. 575,572, June 9; Serial No. 631,333, published Mar. 17, 1953. Class 46.
Anderson Molder Company, Inc., Chicago, Ill. Liquid composition for forming a rust and corrosive-resistant film over chrome surfaces. 575,723, June 9; Serial No. 619,962. Class 16.
Animal Trap Company of America, Lititz, Pa. Pulp bait buckets. 575,649, June 9; Serial No. 635,109, published Mar. 24, 1953. Class 22.
Apothecaries Hall Company, Waterbury, Conn. All purpose cleaner. 575,532, June 9; Serial No. 628,388, published Mar. 17, 1953. Class 52.
Archer-Daniels-Midland Company, Minneapolis, Minn. Feeds. 575,489, June 9; Serial No. 623,530, published Mar. 10, 1953. Class 46.
Ateliers de Normandie, Paris, France. Automatic gauges. 575,389, June 9; Serial No. 604,684, published Feb. 3, 1953. Class 26.
Atkins Company, The: *See*—
Atkins, Ross L.
Atkins, Ross L., doing business as The Atkins Company, Fort Worth, Tex. Ointment. 575,727, June 9; Serial No. 625,089. Class 18.
Atlanta Metallic Casket Company, Atlanta, Ga. Caskets and burial vaults. 575,653, June 9; Serial No. 635,248, published Mar. 17, 1953. Class 2.
Atlantic Sponge & Chamois Corporation, New York, N. Y. Chamois and sponges. 575,483, June 9; Serial No. 622,917, published Mar. 10, 1953. Class 1.
Attorney General of the United States, vested in the: *See*—
Deutsche Gold- & Silber-Scheideanstalt.
Deutsche Gold -und Silber Scheideanstalt.
Nordmark-Werke G. m. b. H.
Aula Chemicals, Inc., Elizabeth, N. J. Color compositions and carriers therefor, and auxiliary compositions used in conjunction therewith. 575,687, June 9; Serial No. 639,203, published Mar. 24, 1953. Class 6.
Automobile Association of New Jersey, Newark, N. J. Assisting motorists and owners of motor vehicles in obtaining emergency automobile repair and towing service. 575,696, June 9; Serial No. 602,669, published Mar. 24, 1953. Class 105.
Autostie Co.: The: *See*—
Jacobson, Howard N.
Avon Publishing Co., Inc., New York, N. Y. Books. 575,635, June 9; Serial No. 634,517, published Mar. 24, 1953. Class 38.
Bailey Meter Company, Cleveland, Ohio. Assembly of a plurality of metallic tubes. 575,714, June 9; Serial No. 613,206. Class 13.
Balm-of-Gilead Salve Co.: *See*—
Tyler, Maybra E.
Baltimore Belting Company, to Baltimore Belting Company, Baltimore, Md. Leather belting. 302,331, renewed Apr. 11, 1953. O. G. June 9. Class 35.
Barco Oil Company, Tulsa, Okla. Microcrystalline wax. 575,505, June 9; Serial No. 624,773, published Mar. 24, 1953. Class 6.
Barrie, Chester, Ltd., New York, N. Y. Men's and young men's suits, overcoats, tuxedos, etc. 575,414, June 9; Serial No. 612,783, published Mar. 17, 1953. Class 39.
Bass, Ratcliff & Gretton Limited, Burton-upon-Trent, England. Pale ale and beer. 138,372, Jan. 4, 1921. Republished June 9. Class 48.
Beck, A. S., Shoe Corporation, New York, N. Y. Boots, shoes, and slippers. 303,684, renewed June 6, 1953. O. G. June 9. Class 39.
Bellaire Enamel Company, The, Bellaire, Ohio. Garbage cans. 575,370, June 9; Serial No. 580,393, published Mar. 10, 1953. Class 2.
Belmont, Curtis M.: *See*—
Abramowitz, Curt E.
Bendix Aviation Corporation: *See*—
Fries, Julien P., & Sons, Inc.

Bennett, Paul, Wilmette, Ill. Fishing lures. 575,629, June 9; Serial No. 634,294, published Mar. 24, 1953. Class 22.

Bentz, Frank J., doing business as Fixzit System, Miami, Fla., to Fixzit System, Incorporated, Columbus, Ohio. Compound for stopping boiler leaks, a compound for cleaning waste matter from pipes, etc. 299,649, renewed Dec. 13, 1952. O. G. June 9. Class 52.

Bernstein, Harry, doing business as Harry's Candy Kitchen, Tampa, Fla. Candy and glacé fruits. 575,725, June 9; Serial No. 622,195. Class 46.

Betz, Luis J., doing business as D'Franssia Laboratories, Los Angeles, Calif. Medicinal preparation. 575,609, June 9; Serial No. 633,443, published Feb. 24, 1953. Class 18.

Betz, W. H. and L. D., Philadelphia, Pa. Slime control agents. 575,604, June 9; Serial No. 633,250, published Mar. 17, 1953. Class 6.

Bliss, Lucille, San Francisco, Calif. Entertainment service. 575,698, June 9; Serial No. 617,860, published Mar. 17, 1953. Class 107.

Bloch Bros., to A. Gillies & Co. (Distillers) Limited, Glasgow, Scotland. Port wine. 301,289, renewed Feb. 21, 1953. O. G. June 9. Class 47.

Bloomingdale Bros. Inc., to Federated Department Stores, Inc., New York, N. Y. Women's and misses' dresses. 301,565, renewed Mar. 7, 1953. O. G. June 9. Class 39.

Body Bros., Inc., Bedford, Ohio. Ready mixed paints, varnishes, lacquers, etc. 575,388, June 9; Serial No. 604,517, published Mar. 10, 1953. Class 16.

Boericke & Runyon, Inc., New York, N. Y. Tablets for use in the treatment of arterio-sclerosis. 575,425, June 9; Serial No. 614,810, published Feb. 24, 1953. Class 18.

Bolta Company, The: *See*—
Bolta Rubber Co., Inc.

Bolta Rubber Co., Inc., to The Bolta Company, Lawrence, Mass. Composition sheet material. 301,800, renewed Mar. 14 1953. O. G. June 9. Class 50.

Bond Pickle Company, Oconto, Wis. Pickles and canned sauerkraut. 575,585, June 9; Serial No. 632,148, published Mar. 17, 1953. Class 46.

Bonne Bell, Inc., Cleveland, Ohio. Face creams. 444,774, June 9; Serial No. 472,499, published Feb. 15, 1949. Class 51.

Booth, Mary, Washington, D. C. Aprons. 575,520, June 9; Serial No. 626,557, published Mar. 10, 1953. Class 39.

Brecht Candy Company, Denver, Colo. Chocolate-peanut candy bars. 575,728, June 9; Serial No. 625,454. Class 46.

Breck, John H., Inc., Springfield, Mass. Shampoo. 575,376, June 9; Serial No. 589,067, published Mar. 17, 1953. Class 52.

Bright Star Battery Company, Clifton, N. J. Photoflash battery and bulb tester. 575,640, June 9; Serial No. 634,628, published Mar. 17, 1953. Class 26.

Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Cleaning, scouring and polishing wads, pads, rolls, and cloths. 305,094, renewed Aug. 1, 1953. O. G. June 9. Class 4.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic derivative. 575,516, June 9; Serial No. 626,302, published Feb. 17, 1953. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic derivative. 575,517, June 9; Serial No. 626,307, published Feb. 17, 1953. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic combination. 575,518, June 9; Serial No. 626,366, published Feb. 17, 1953. Class 18.

Bruning, Charles, Company Inc., New York, N. Y. Photographic material. 575,397, June 9; Serial No. 609,163, published Sept. 25, 1951. Class 26.

Bryan-Brandenburg Corporation of California, Los Angeles, Calif. Transparent, self-adhering sheets bearing various indicia, characters and symbols. 575,594, June 9; Serial No. 632,655, published Mar. 10, 1953. Class 38.

Bullard Clark Company, The, Danielson, Conn. Loom supplies. 575,398, June 9; Serial No. 609,535, published Mar. 24, 1953. Class 23.

Bungalow Bar Corporation of America: *See*—
Alpine Ice Cream Co. Inc.

Bureau of Business Practice: *See*—
National Foremen's Institute, Inc.

Burns, Martin S., trading as The Perfect Panti Company, Philadelphia, Pa. Diapers and diaper panties. 575,607, June 9; Serial No. 633,347, published Mar. 3, 1953. Class 39.

Burroughs Manufacturing Corporation, Los Angeles, Calif. Plastic housewares—namely, boxes for meat storage in refrigerators. 575,586, June 9; Serial No. 632,151, published Mar. 17, 1953. Class 2.

Callaway Mills Company, La Grange, Ga. Holder for use in the preparation of specimens for microscopic examination, etc. 575,495, June 9; Serial No. 623,792, published Feb. 3, 1953. Class 26.

Callaway Mills Company, La Grange, Ga. Cotton tufted scatter rugs. 575,557, June 9; Serial No. 630,116, published Mar. 10, 1953. Class 42.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Asphaltic composition adhesive cement. 575,360, June 9; Serial No. 556,475, published Mar. 24, 1953. Class 5.

Carol Textile Co. Inc., New York, N. Y. Sheets and pillowcases. 575,525, June 9; Serial No. 627,322, published Mar. 24, 1953. Class 42.

Caron Corporation, New York, N. Y. Perfume. 575,739–40, June 9; Serial Nos. 638,832–3. Class 51.

Caron Corporation, New York, N. Y. Perfume. 575,742–3, June 9; Serial Nos. 638,897–8. Class 51.

Caron Corporation, New York, N. Y. Perfume. 575,745–6, June 9; Serial Nos. 639,105–6. Class 51.

Caron Corporation, New York, N. Y. Perfume. 575,747–8, June 9; Serial Nos. 639,207–8. Class 51.

Caron Corporation, New York, N. Y. Perfume. 575,749, June 9; Serial No. 641,014. Class 51.

Cassidy, Frank J., doing business as Mega-Score, Chicago, Ill. Megaphones. 575,501, June 9; Serial No. 624,331, published Mar. 24, 1953. Class 22.

Cat Cay Realty Company, Limited, The, Nassau, Island of New Providence, Bahama Islands, British West Indies. Textile fabrics. 575,456, June 9; Serial No. 620,493, published Dec. 30, 1952. Class 42.

Chelsea Process, Inc., New York, N. Y. Glazing furs. 575,750, June 9; Serial No. 612,443. Class 106.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Intervals timers. 575,428, June 9; Serial No. 615,367, published Feb. 3, 1953. Class 26.

Chemical Process Company, San Francisco, Calif. Synthetic resinous ion exchange materials. 575,442, June 9; Serial No. 618,841, published Mar. 3, 1953. Class 31.

Chicago Pharmacal Company, Chicago, Ill. High potency multiple vitamin preparation. 575,592, June 9; Serial No. 632,602, published Mar. 3, 1953. Class 18.

Ciba Limited, Basel, Switzerland. Dyestuffs. 575,549, June 9; Serial No. 629,358, published Mar. 24, 1953. Class 6.

Clinic and Hospital, Inc., The, also doing business as McCleary Clinic and Hospital, Excelsior Springs, Mo. Periodical. 575,593, June 9; Serial No. 632,603, published Mar. 17, 1953. Class 38.

Closet Accessories Company: *See*—
Hayes, Frances H.

Coe Laboratories, Inc., Chicago, Ill. Dental wire. 303,672, renewed June 6, 1953. O. G. June 9. Class 44.

Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics. 305,632, renewed Aug. 22, 1953. O. G. June 9. Class 42.

Commercial Solvents Corporation, New York, N. Y. Pharmaceuticals, and in particular antibiotics. 575,434, June 9; Serial No. 616,367, published Feb. 24, 1953. Class 18.

Continental Foods, Inc., Hoboken, N. J. Dehydrated chicken noodle soup mixes. 575,361, June 9; Serial No. 561,362, published Mar. 15, 1949. Class 46.

Continental Mills, Inc., Philadelphia, Pa. Knitted and woven fabrics. 575,564, June 9; Serial No. 630,654, published Mar. 10, 1953. Class 42.

Continental Oil Company, Houston, Tex. Monthly publication. 575,503, June 9; Serial No. 624,733, published Mar. 17, 1953. Class 38.

Corbey, Doris I., doing business under the fictitious name of Holl-Hood Co., Hollywood, Calif. Head coverings. 575,610, June 9; Serial No. 633,440, published Mar. 24, 1953. Class 39.

Craig-Stanton & Co., Inc., New York, N. Y. Metal friction toys, toy wooden pop-guns and pistols, etc. 575,510, June 9; Serial No. 625,661, published Mar. 24, 1953. Class 22.

Croessant, George F., doing business as Croessant Machine Works, Reading, Pa. Screw anchors. 575,446, June 9; Serial No. 619,191, published Mar. 24, 1953. Class 13.

Croessant Machine Works: *See*—
Croessant, George F.

Crookes Laboratories, Inc., New York, N. Y. Enzyme-vitamin combination. 575,454, June 9; Serial No. 620,336, published Feb. 24, 1953. Class 18.

Crown Produce Co., Los Angeles, Calif. Fresh vegetables, fresh berries, and fresh fruits. 575,561, June 9; Serial No. 630,314, published Mar. 10, 1953. Class 46.

Cruikshank Brothers: *See*—
Lutz & Schramm, Inc.

Cutter Laboratories, Berkeley, Calif. Medical preparation. 575,579, June 9; Serial No. 631,020, published Mar. 3, 1953. Class 18.

Damon Creations, Inc., New York, N. Y. Men's sportshirts. 575,608, June 9; Serial No. 633,352, published Mar. 17, 1953. Class 39.

Danville Brick Company, Danville, by The Waylite Company, Chicago, Ill. Building block, building brick, etc. 301,395, Feb. 28, 1933; republished June 9, 1953. Class 12.

Dayton Rubber Company, The, Dayton, Ohio. Rubber vehicle tires and tubes, hose, and V-belts. 575,424, June 9; Serial No. 614,652, published Mar. 17, 1953. Class 35.

Demi-Tint Industries: *See*—
Sommers, Edward S.

Denison Engineering Company, The, Columbus, Ohio. Hydraulic presses and parts therefor. 575,539, June 9; Serial No. 629,000, published Mar. 24, 1953. Class 23.

Deutsche Gold- & Silber-Scheideanstalt, Frankfurt-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Bristles, sponges, ores, sand, etc. 301,110, renewed Feb. 21, 1953. O. G. June 9. Class 1.

Deutsche Gold- und Silber Scheideanstalt, Frankfurt-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Astringents, astringent cerates, bleach creams, etc. 300,894, renewed Feb. 14, 1953. O. G. June 9. Class 51.

Dewey and Almy Chemical Company, Cambridge, Mass. Chemical composition. 570,646, Feb. 17. Corrected. O. G. June 9. Class 6.

D'Franssia Laboratories: *See*—
Betz, Luis J.

Diamond Match Company, The, New York, N. Y. Trays. 575,654–5, June 9; Serial Nos. 635,290–1, published Mar. 10, 1953. Class 2.

Diamond Match Company, The, New York, N. Y. Trays. 575,658, June 9; Serial No. 635,409, published Mar. 17, 1953. Class 2.

Dille & McGuire Mfg. Co., Richmond, Ind. Lawn mowers. 575,475–6, June 9; Serial Nos. 622,484–5, published Mar. 24, 1953. Class 23.

Dille & McGuire Mfg. Co., Richmond, Ind. Lawn mowers. 575,477, June 9; Serial No. 622,489, published Mar. 24, 1953. Class 23.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 303,052, May 9, 1933; republished June 9, 1953. Class 23.

Dixie Cup Company: *See*—
Pac-Kups Incorporated.

Donnelley, Reuben H., Corporation, The, Chicago, Ill. Classified telephone directories. 575,391, June 9; Serial No. 605,202, published Mar. 24, 1953. Class 38.

Doubleday & Company, Inc., Garden City, N. Y. Books. 575,531, June 9; Serial No. 628,146, published Mar. 17, 1953. Class 38.

Ducharne Inc., New York, N. Y. Textile fabrics. 575,416, June 9; Serial No. 613,217, published Mar. 24, 1953. Class 42.

Dunbar-Stanley Studios, Charlotte, N. C., assignor to J. C. Penney Company, New York, N. Y. Photographic portraits. 575,665, June 9; Serial No. 635,906, published Mar. 24, 1953. Class 38.

Dunlop Rubber Company Limited, Birmingham, England. India-rubber latex. 575,362, June 9; Serial No. 563,246, published Mar. 17, 1953. Class 1.

Duro Co., The, Dayton, Ohio. Filtering apparatus. 575,465, June 9; Serial No. 621,393, published Mar. 10, 1953. Class 31.

Earnest Dental Laboratory, Philadelphia, Pa. Dental metals. 575,538, June 9; Serial No. 628,811, published Mar. 10, 1953. Class 44.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Synthetic yarn. 575,636, June 9; Serial No. 634,526, published Mar. 10, 1953. Class 43.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic cameras. 575,639, June 9; Serial No. 634,578, published Mar. 17, 1953. Class 26.

"E-Cut" Knitting Mills, Inc.: *See*—
Emmers, E., & Co.

Edwards, W., & Company (London) Limited, London, England. High-vacuum pumps for scientific and research purposes. 575,387, June 9; Serial No. 604,194, published Feb. 3, 1953. Class 26.

Ehniger Mills, Inc., New York, N. Y. Wool fabrics. 575,678, June 9; Serial No. 637,175, published Mar. 10, 1953. Class 42.

Eklund, Stig L. F., Gothenburg, Sweden. Apparatus and appliances for vaporizing liquid disinfectants and like substances into the air. 575,380, June 9; Serial No. 595,714, published Feb. 24, 1953. Class 23.

Emmers, E., & Co., to "E-Cut" Knitting Mills, Inc., Royersford, Pa. Women's undervests. 92,660, re-renewed July 22, 1953. O. G. June 9. Class 39.

Emporium Capwell Company, The, doing business as The Emporium, San Francisco, Calif. Fabric anklets, aprons, infants' bands, etc. 575,461, June 9; Serial No. 620,959, published Mar. 3, 1953. Class 39.

Emporium, The: *See*—
Emporium Capwell Company, The.

Eskimo Pie Corporation, Bloomfield, N. J. Ice cream. 575,482, June 9; Serial No. 622,816, published Mar. 10, 1953. Class 46.

Etablissements Tripette & Renaud Fils, Societe a Responsabilite Limitee, Paris, France. Silk bolting cloth. 575,383, June 9; Serial No. 597,822, published Mar. 10, 1953. Class 42.

Etna Chemical Company, Inc.: *See*—
Agar-Lac, Inc.

European Coast Chemical House: *See*—
Wong, Howard.

Fabrex Corp., New York, N. Y. Woven fabric piece goods. 575,606, June 9; Serial No. 633,304, published Mar. 24, 1953. Class 42.

Fairbanks, Morse & Co., Chicago, Ill. Windmills and parts thereof. 575,384, June 9; Serial No. 598,789, published Mar. 24, 1953. Class 23.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Chemotherapeutic agent. 575,686, June 9; Serial No. 638,953, published Feb. 24, 1953. Class 18.

Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfurt am Main Hochst, Germany. Paa (para-aminosalicylic acid), its salts and its derivatives. 575,480, June 9; Serial No. 622,710, published Feb. 17, 1953. Class 18.

Federated Department Stores, Inc.: *See*—
Bloomingdale Bros. Inc.

Federated Department Stores, Inc., Cincinnati, Ohio. Toy stuffed animals, dolls, musical toys, etc. 575,498, June 9; Serial No. 624,029, published Mar. 24, 1953. Class 22.

Federated Department Stores, Inc., Cincinnati, Ohio. Hand and bath soaps, laundry soaps, soap flakes and powders, etc. 575,506, June 9; Serial No. 624,880, published Mar. 17, 1953. Class 52.

Ferris Instrument Company, Boonton, N. J. Electrical signal generators, radio noise meters, field strength meters, etc. 575,364, June 9; Serial No. 571,389, published Mar. 17, 1953. Class 26.

Ferry-Morse Seed Co., Detroit, Mich. Seeds. 575,379, June 9; Serial No. 594,440, published Mar. 24, 1953. Class 1.

Filsy Frocks, New York, N. Y. Ladies' and misses' dresses. 575,582, June 9; Serial No. 632,024, published Mar. 24, 1953. Class 39.

Fixzit System: *See*—
Bentz, Frank J.

Fixzit System, Incorporated: *See*—
Bentz, Frank J.

Flotill Products, Incorporated, Stockton, Calif. Canned apricots and peaches. 575,672, June 9; Serial No. 636,472, published Mar. 17, 1953. Class 46.

Fluf-It Corporation, Cleveland, Ohio. Textile softeners. 575,721, June 9; Serial No. 619,614. Class 6.

Foley Manufacturing Company, Minneapolis, Minn. Abrasive lawn mower sharpening compounds. 575,643, June 9; Serial No. 634,736, published Mar. 24, 1953. Class 4.

Follman, Louis, to Skaller Supply Co., New York, N. Y. Mixed paint, varnish, prepared shellac, and paint enamels. 295,054, renewed June 14, 1952. O. G. June 9. Class 16.

Food Machinery and Chemical Corporation, San Jose, Calif. Leasing machines and equipment. 575,694, June 9; Serial No. 588,569, published Mar. 17, 1953. Class 100.

Forbes, James H., Tea and Coffee Company, St. Louis, Mo. Coffee, tea, flavoring extracts, etc. 575,358–9, June 9; Serial Nos. 541,123–4, published Mar. 17, 1953. Class 46.

Forging and Casting Corporation, The, Ferndale, Mich., to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Alloy steel castings, smooth hammered forgings, and electrically welded composite, etc. 301,594–6, renewed Mar. 7, 1953. O. G. June 9. Class 14.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 575,552, June 9; Serial No. 629,787, published Sept. 30, 1952. Class 42.

Frankly Fabrics Corp., New York, N. Y. Textile fabrics. 575,420, June 9; Serial No. 614,295, published July 15, 1952. Class 42.

Fresno Co-Operative Raisin Growers, Inc., Fresno, Calif. Raisins. 575,526, June 9; Serial No. 627,680, published Mar. 17, 1953. Class 46.

Friedberg, Samuel, doing business under the firm name and style of Spee-D-Tan Co., Atlantic City, N. J. Sun reflecting collar. 575,543, June 9; Serial No. 629,105, published Mar. 10, 1953. Class 39.

Fries, Julien P., & Sons, Inc., to Bendix Aviation Corporation, Baltimore, Md. Weather direction transmitter, anemometer, wind direction indicators, etc. 301,941, renewed Mar. 21, 1953. O. G. June 9. Class 26.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 575,404, June 9; Serial No. 610,552, published Sept. 4, 1951. Class 42.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 575,682, June 9; Serial No. 637,769, published Mar. 24, 1953. Class 42.

Furnas Electric Company, Batavia, Ill. Electric control switches. 575,704, June 9; Serial No. 584,982. Class 21.

Gabail Limited, London, England. Medicines for human use. 301,985, renewed Mar. 21, 1953. O. G. June 9. Class 18.

Gardner, Mercedes, and J. S. Smith, Sacramento, Calif. Entertainment services. 575,697, June 9; Serial No. 607,949, published Mar. 24, 1953. Class 107.

Garner, T. W., Food Co., Winston-Salem, N. C. Hot sauce. 575,486, June 9; Serial No. 623,247, published Mar. 10, 1953. Class 46.

Gédance, Lillian B., Philadelphia, Pa. Handkerchiefs. 575,650, June 9; Serial No. 635,130, published Mar. 24, 1953. Class 39.

General Dyestuff Corporation, New York, N. Y. Coloring agents. 575,444, June 9; Serial No. 618,920, published Mar. 17, 1953. Class 6.

General Electric Company, Schenectady, N. Y. Electrical panelboards and electrical load centers and parts thereof. 575,443, June 9; Serial No. 618,850, published Mar. 17, 1953. Class 21.

General Electric Company, Schenectady, N. Y. Synthetic organosilanes, organohalogenosilanes, etc. 575,565, June 9; Serial No. 630,889, published Mar. 17, 1953. Class 6.

General Motors Corporation, Detroit, Mich. Accessory devices used with internal combustion engines—namely, air cleaners, etc. 575,451, June 9; Serial No. 620,206, published Feb. 24, 1953. Class 23.

General Motors Corporation, Detroit, Mich. Automatic dimmer for vehicle headlights. 575,529, June 9; Serial No. 627,877, published Mar. 17, 1953. Class 21.

General Paint & Varnish Co., Chicago, Ill. Ready-mixed paint, varnishes, wood stains, etc. 575,363, June 9; Serial No. 564,013, published Mar. 24, 1953. Class 16.

Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Disinfectant and household germicide. 575,401, June 9; Serial No. 610,011, published Mar. 17, 1953. Class 6.

Giambanco Packing Co.: *See*—
Giambanco, Pietro.

Giambanco, Pietro, doing business as Giambanco Wine Vinegar Plant and as Giambanco Packing Co., Oakdale, Calif. Canned vegetables, vinegar, peperoncini, etc. 575,482, June 9; Serial No. 621,010, published Feb. 17, 1953. Class 46.

Giambanco Wine Vinegar Plant: *See*—
Giambanco, Pietro.

Gillette Company, The: *See*—
Gillette Safety Razor Company.

Gillette Safety Razor Company, to The Gillette Company, Boston, Mass. Safety razors and safety razor blades. 303,303, renewed May 23, 1953. O. G. June 9. Class 23.

Gillies, A., & Co. (Distillera) Limited: *See*—
Bloch Bros.

Glen Raven Cotton Mills, Inc., Glen Raven, N. C. Cotton upholstery fabrics. 575,601, June 9; Serial No. 632,932, published Mar. 24, 1953. Class 42.

Gloster Products, Inc., Chicago, Ill. Seat covers for automobiles and for vehicles. 575,645, June 9; Serial No. 634,899, published Mar. 24, 1953. Class 19.

Goldstein, Charles, Syracuse, N. Y. Soapless lathering shampoo cream. 575,707, June 9; Serial No. 595,834. Class 52.

Goldstein Millinery Company, Chicago, Ill. Hats. 575,421, June 9; Serial No. 614,549, published Mar. 17, 1953. Class 39.

Goldstein Millinery Company, Chicago, Ill. Hats. 575,422, June 9; Serial No. 614,551, published Mar. 17, 1953. Class 39.

Goldstein Millinery Company, Chicago, Ill. Ladies', misses', and children's hats. 575,427, June 9; Serial No. 615,113, published Mar. 17, 1953. Class 39.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Electrostatic air filters. 575,544, June 9; Serial No. 629,108, published Mar. 17, 1953. Class 31.

Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. 575,598, June 9; Serial No. 632,837, published Mar. 24, 1953. Class 42.

Grant Pulley & Hardware Co., Flushing, N. Y. Door, window, and cabinet hardware, curtain hardware, clothesline hardware. 575,515, June 9; Serial No. 626,161, published Mar. 24, 1953. Class 13.

Graoc Dairy Products Co., The: *See*—
Stover, Oscar H.

Graoc Farm Dairy: *See*—
Stover, Oscar H.

Graoc Farm Dairy, The: *See*—
Stover, Oscar H.

Graton & Knight Company, Worcester, Mass. Textile leathers. 575,570, June 9; Serial No. 631,154, published Mar. 10, 1953. Class 1.

Gretener, Dr. Edgar, A. G., Zurich, Switzerland. Photographic chemicals. 575,614, June 9; Serial No. 633,580, published Mar. 17, 1953. Class 8.

Grid Gard: *See*—
Maynard, Hiram H.

Griffith, Otis, Rowayton, Conn. Pillow covers and pillow cases. 575,684, June 9; Serial No. 638,079, published Mar. 24, 1953. Class 42.

Guilford Woolen Mills Co., Guilford, Maine. Piece goods. 575,683, June 9; Serial No. 637,821, published Mar. 24, 1953. Class 42.

Gummed Products Company, The, Troy, Ohio. Natural and/or synthetic rubber-like cohesive coated sheet materials. 575,403, June 9; Serial No. 610,214, published Mar. 17, 1953. Class 5.

Gummed Products Company, The, Troy, Ohio. Water moistenable gummed adhesive tapes. 575,460, June 9; Serial No. 620,915, published Mar. 24, 1953. Class 5.

Gyrodyne Company of America, Inc., New York, N. Y. Aircraft. 575,405, June 9; Serial No. 610,620, published Mar. 3, 1953. Class 19.

Hackett, Philip M., doing business under the name Niagara Electron Laboratories, Andover, N. Y. Electronic relays. 575,410, June 9; Serial No. 612,256, published Mar. 17, 1953. Class 21.

Harry's Candy Kitchen: *See*—
Bernstein, Harry.

Hat Corporation of America, Norwalk, Conn. Hats. 305,702, renewed Aug. 22, 1953. O. G. June 9. Class 39.

Hat Corporation of America, Norwalk, Conn. Hats. 305,708, renewed Aug. 22, 1953. O. G. June 9. Class 39.

Hayes, Frances H., doing business as Closet Accessories Company, Kenilworth, Ill. Paperboard boxes. 575,567, June 9; Serial No. 631,104, published Mar. 17, 1953. Class 2.

Healthways, Los Angeles, Calif. Swimming masks comprising an optical face covering. 575,733, June 9; Serial No. 628,001. Class 26.

Henderise, Inc., Sacramento, Calif. Portable apparatus having a number of longitudinal recesses therein to support coins of pre-determined diameters, etc. 575,715, June 9; Serial No. 613,591. Class 26.

Henry and Henry, Inc., Buffalo, N. Y. Chocolate fudge icing. 575,716, June 9; Serial No. 614,773. Class 46.

Heppenstall Company, Pittsburgh, Pa. Hot work die steel forgings. 575,490–1, June 9; Serial Nos. 623,600–1, published Mar. 17, 1953. Class 14.

Het Goolsche Schrijfmachinehuis & Handelsonderneming "Beka": *See*—
Kerk, Bernhard.

Heyden Chemical Corporation, New York, N. Y. Various polyhydric alcohols. 575,662, June 9; Serial No. 633,652, published Mar. 17, 1953. Class 6.

Hit Parade Program Service, Inc., New York, N. Y. Printed song title strips. 575,432, June 9; Serial No. 615,708, published Mar. 17, 1953. Class 38.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., to Hoffmann-La Roche Inc., Nutley, N. J. Bromin compound. 91,343, re-renewed Apr. 29, 1953. O. G. June 9. Class 18.

Hoffmann-La Roche Inc.: *See*—
Hoffmann-La Roche Chemical Works, The.

Holiday Frosted Food Co.: *See*—
Wolf, Robert S.

Holli-Hood Co.: *See*—
Corbey, Doris I.

Holstein Produce & Hatchery: *See*—
Vilas & Company.

Hooker Electrochemical Company, Niagara Falls, N. Y. Hexachlorobutadiene. 575,546, June 9; Serial No. 629,163, published Mar. 17, 1953. Class 6.

Horner & Robertson, Inc., Idaho Springs, Colo. Anti-skid chains. 575,718, June 9; Serial No. 617,030. Class 13.

Horst, E. Ciemens, Co., San Francisco, Calif. Hops. 575,597, June 9; Serial No. 632,817, published Mar. 17, 1953. Class 1.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating oils. 90,889, Apr. 1, 1913. Republished June 9. Class 15.

Houghton, E. F., & Co., Philadelphia, Pa. Bone black. 91,212, Apr. 22, 1913. Republished June 9. Class 1.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating greases. 300,909, Feb. 14, 1933. Republished June 9. Class 15.

Houghton, E. F., & Co., Philadelphia, Pa. Liquid filter soaps. 301,389, Feb. 28, 1933. Republished June 9. Class 52.

Hulman & Company, Terre Haute, Ind. Preparations for use as a medicine or tonic and for other analogous uses. 575,390, June 9; Serial No. 605,034, published Feb. 17, 1953. Class 18.

Hulson Company, Chicago, Ill. Containers for waste, which are insertable in journal boxes of railway cars. 575,584, June 9; Serial No. 632,080, published Mar. 17, 1953. Class 19.

Hunneman, John R., Jr., Woburn, Mass. Hand manipulable water-guiding spout. 575,418, June 9; Serial No. 613,509, published Mar. 24, 1953. Class 13.

Hyde Manufacturing Company, Southbridge, Mass. Putty knives and scrapers. 575,371, June 9; Serial No. 581,717, published Mar. 24, 1953. Class 23.

Hydroway Scales, Inc., Southfield Township, Oakland County, and Detroit, Mich. Weighing scales. 575,706, June 9; Serial No. 590,367. Class 26.

Institute of Radio Engineers, Inc., The, New York, N. Y. Publications. 575,590, June 9; Serial No. 632,478, published Mar. 10, 1953. Class 38.

Institute of Radio Engineers, Inc., The, New York, N. Y. Publications. 575,591, June 9; Serial No. 632,480, published Mar. 10, 1953. Class 38.

International Alliance of Theatrical Stage Employes and Moving Picture Machine Operators of the United States and Canada, New York, N. Y. Motion picture film. 575,459, June 9; Serial No. 620,732, published Feb. 3, 1953. Class 26.

Interstate Engineering Corporation, El Segundo, Calif. Floor polisher attachment for electric vacuum cleaners. 575,441, June 9; Serial No. 618,298, published Mar. 17, 1953. Class 21.

Iskin, Herman, & Co. Inc., Telford, Pa., and New York, N. Y. Playsuits. 575,548, June 9; Serial No. 629,300, published Mar. 10, 1953. Class 39.

Ivo, Inc., West Bend, Wis. External medicinal preparation. 575,724, June 9; Serial No. 620,782. Class 18.

Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif. Colloid laxative. 575,411, June 9; Serial No. 612,548, published Feb. 24, 1953. Class 18.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bronze machinery bushings. 575,533, June 9; Serial No. 628,508, published Mar. 24, 1953. Class 23.

Jacobson, Howard N., doing business as The Autosite Co., Detroit, Mich. Plastic sunlight filter attachments for windshields and windows of vehicles. 575,506, June 9; Serial No. 632,787, published Mar. 17, 1953. Class 19.

Johnson & Johnson, New Brunswick, N. J. Surgical adhesive tape. 575,500, June 9; Serial No. 624,088, published Mar. 10, 1953. Class 44.

Jones Chemicals, Inc., Jacksonville, Fla. Liquid starch. 575,603, June 9; Serial No. 633,204, published Mar. 17, 1953. Class 6.

Jones, Sallie Cabell, Richmond, Va. Cakes, pies, bread, rolls, tarts, etc. 575,573, June 9; Serial No. 631,427, published Mar. 10, 1953. Class 46.

Juillard Fancy Foods Co., San Francisco, Calif. Prepared foods. 575,717, June 9; Serial No. 615,646. Class 46.

Kalart Company Inc., The, Plainville, Conn. Camera attachments and accessories. 575,400, June 9; Serial No. 609,863, published Feb. 3, 1953. Class 26.

Kamehameha Garment Co., Ltd., Honolulu, Hawaii. Women's and children's bathing suits, sun dresses, and shirts. 575,460, June 9; Serial No. 621,468, published Mar. 17, 1953. Class 39.

Kao Novelty Co., New York, N. Y. Ecclesiastical textile fabrics. 575,530, June 9; Serial No. 627,946, published Mar. 24, 1953. Class 42.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Paper tissues. 352,405, Nov. 30, 1937. Republished June 9. Class 37.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 575,563, June 9; Serial No. 630,538, published Mar. 3, 1953. Class 39.

Kendall Company, The, Walpole, Mass. Coat front interlining material. 575,680, June 9; Serial No. 637,280, published Mar. 10, 1953. Class 42.

Kerk, Bernhard, trading as Het Goolsche Schrijfmachinehuis & Handelsonderneming "Beka," Hilversum, Netherlands. Adding machines, calculating machines, bookkeeping machines, etc. 575,450, June 9; Serial No. 619,883, published Mar. 24, 1953. Class 26.

Kester Solder Company, Chicago, Ill. Soldering fluxes. 302,757, renewed Apr. 25, 1953. O. G. June 9. Class 6.

Kester Solder Company, Chicago, Ill. Soldering fluxes. 302,846, renewed May 2, 1953. O. G. June 9. Class 6.

Kester Solder Company, Chicago, Ill. Solder. 302,848, renewed May 2, 1953. O. G. June 9. Class 14.

Key, James P., doing business under the name Key Pharmacal Company, Memphis, Tenn. Preparation in tablet form used in hypertension. 575,447, June 9; Serial No. 619,298, published Feb. 17, 1953. Class 18.

Key Pharmacal Company: *See*—
Key, James P.

Kiddie Key Co., Waco, Tex. Dress patterns. 575,587, June 9; Serial No. 632,212, published Mar. 24, 1953. Class 26.

Kilgore Seed Company, The, Plant City, Fla. Insecticide and fungicide. 575,504, June 9; Serial No. 624,748, published Mar. 17, 1953. Class 6.

Kimball Co., The, Cleveland, Ohio. Stabilizers for automotive vehicles. 575,616, June 9; Serial No. 633,675, published Mar. 24, 1953. Class 19.

Koury, W., Company, Sanford, N. C. Men's and boys' outer shirts and pants. 575,511, June 9; Serial No. 625,676, published Mar. 17, 1953. Class 39.

Labmasters Incorporated, Lincoln, Nebr. Vitaminized salt. 575,373, June 9; Serial No. 584,406, published Mar. 10, 1953. Class 46.

Laher Spring and Tire Corporation, Oakland, Calif. Automobile and truck pneumatic tires. 575,726, June 9; Serial No. 625,016. Class 35.

Lambeth Woolens, Inc., New York, N. Y. Woolen fabrics. 575,651, June 9; Serial No. 635,186, published Mar. 24, 1953. Class 42.

Larus & Brother Company, Richmond, Va. Smoking tobacco and cigarettes. 301,418, Feb. 28, 1933. Republished June 9. Class 17.

Laverne: *See*—
Pociask, Jeanne L.

Lea Manufacturing Company, The, Waterbury, Conn. Preparation used as an addition agent in electroplating solutions. 575,663, June 9; Serial No. 635,702, published Mar. 24, 1953. Class 6.

Leaf Brands, Inc., Chicago, Ill. Candy. 575,551, June 9; Serial No. 629,740, published Mar. 10, 1953. Class 46.

Leeroy, John, & Son, Camden, N. J. Insecticides. 304,576, renewed July 11, 1953. O. G. June 9. Class 6.

Lesnick, Louis, and Son, Philadelphia, Pa. Men's trousers, pants, and sport coats, dungarees, etc. 575,458, June 9; Serial No. 620,609, published Mar. 10, 1953. Class 39.

Levitz, Jerome M., Albany, N. Y. Ladies' diamond engagement rings and ladies' wedding rings. 575,499, June 9; Serial No. 624,039, published Mar. 24, 1953. Class 28.

Lewis Bros. Bakeries, Inc., Anna, Ill. Bread. 575,545, June 9; Serial No. 629,114, published Mar. 10, 1953. Class 46.

Lilly, Eli, and Company, Indianapolis, Ind. Special liver-stomach interaction product, iron ammonium citrate, green, and B vitamin concentrate. 305,354, renewed Aug. 15, 1953. O. G. June 9. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Local anesthetic. 305,894, renewed Aug. 29, 1953. O. G. June 9. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 575,689, June 9; Serial No. 639,319, published Mar. 24, 1953. Class 18.

Little Kanawha Regional Council, Inc., Parkersburg, W. Va. Potatoes. 575,703, June 9; Serial No. 626,091, published Mar. 17, 1953. Class 46.

Lourd, Seymour J., New York, N. Y. Men's and boys' coats, suits, outer shirts, etc. 575,744, June 9; Serial No. 639,061. Class 39.

Lowe, Joe, Corporation, New York, N. Y. Empty bags. 575,407, June 9; Serial No. 611,795, published Mar. 17, 1953. Class 2.

Luts & Schramm, Inc., doing business as Cruikshank Brothers, Pittsburgh, Pa. Fruit preserves, fruit jelly, and fruit butters. 575,494, June 9; Serial No. 623,661, published Mar. 10, 1953. Class 46.

Mail Pouch Tobacco Co., Wheeling, W. Va. Eye glasses. 575,602, June 9; Serial No. 633,159, published Feb. 24, 1953. Class 26.

Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. 575,636–7, June 9; Serial Nos. 633,371–2, published Mar. 24, 1953. Class 31.

Martini & Rossi Corporation, New York, N. Y. Medicinal bitters. 575,481, June 9; Serial No. 622,752, published Feb. 17, 1953. Class 18.

Master Rule Manufacturing Co., Inc., Middletown, N. Y. Wood folding rules. 575,620, June 9; Serial No. 633,939, published Feb. 24, 1953. Class 26.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated. Sulphur. 575,366, June 9; Serial No. 576,153, published Mar. 17, 1953. Class 6.

Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated. Sulphur. 575,367, June 9; Serial No. 576,155, published Mar. 17, 1953. Class 6.

Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated. Flour sulphur. 575,368, June 9; Serial No. 576,156, published Mar. 17, 1953. Class 6.

Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated. Sublimed sulphur. 575,369, June 9; Serial No. 576,161, published Mar. 17, 1953. Class 6.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

Maybern Products Limited, London, England. Optical bleaching agents and color brightening agents. 575,562, June 9; Serial No. 630,331, published Mar. 17, 1953. Class 6.

Maynard, Hiram H., doing business as Grid Gard, Orlando, Fla. Cooking utensil support. 575,730, June 9; Serial No. 627,345. Class 13.

McBell Enterprises, Kenosha, Wis. Sash and trim painting device. 575,413, June 9; Serial No. 612,698, published Mar. 17, 1953. Class 29.

McCall Refrigerator Corporation, Hudson, N. Y. Electric refrigerators. 575,627, June 9; Serial No. 634,262, published Mar. 10, 1953. Class 31.

McCleary Clinic and Hospital: *See*—
Clinic and Hospital, Inc., The.

McGregor Magazine Agency, Inc., Mount Morris, Ill. Acting as an agency for nationally-known periodical magazine publications, etc. 575,700, June 9; Serial No. 627,895, published Mar. 17, 1953. Class 100.

Mead Corporation, The: *See*—
Wheelwright, Geo. W., Paper Company.

Meat Industry Suppliers, Inc., Chicago, Ill. Barbeque sauce. 575,666, June 9; Serial No. 635,926, published Mar. 10, 1953. Class 46.

Meb Export Co. Inc., New York, N. Y. Cotton piece goods. 575,487, June 9; Serial No. 623,254, published Mar. 10, 1953. Class 42.

Mega-Score: *See*—
Cassidy, Frank J.

Merck & Co., Inc., Rahway, N. J. Vitamin supplements. 575,484, June 9; Serial No. 623,000, published Feb. 17, 1953. Class 18.

Merrill, Ted F., doing business under the name and style of Ted F. Merrill and Sons, Inglewood, Calif. Construction of new buildings, and repairing and renovating damaged or partially destroyed buildings. 575,699, June 9; Serial No. 626,398, published Mar. 24, 1953. Class 103.

Merrill, Ted F., and Sons: *See*—
Merrill, Ted F.

Mettmanner Britanniawarenfabrik W. Seibel, to W. Seibel, Mettmann, Germany. Spoons and forks. 88,580, renewed Oct. 1, 1952. O. G. June 9. Class 23.

Michigan Wineries, Inc., Paw Paw, Mich. Wine. 404,512, Nov. 30, 1943. Republished June 9. Class 47.

Middishade Company, Inc., The, Philadelphia, Pa. Men's trousers, suits, overcoats, etc. 575,437, June 9; Serial No. 617,453, published Mar. 10, 1953. Class 39.

Midland Equipment Company, Chicago, Ill. Sterilizers for syringes or the like. 575,630, June 9; Serial No. 634,332, published Mar. 24, 1953. Class 44.

Millard, H. E., Lime and Stone Company, Annville, Pa. Pulverized limestone. 575,509, June 9; Serial No. 625,615, published Mar. 10, 1953. Class 1.

Monark Silver King, Inc., Chicago, Ill. Lawnmowers. 575,452–3, June 9; Serial Nos. 620,318–19, published Mar. 24, 1953. Class 23.

Moore, Willard G., Orlando, Fla. Automobile polish. 575,734, June 9; Serial No. 628,116. Class 4.

Morden Machines Company, Portland, Oreg. Machine for pulping and mixing pulp and other paper stock. 575,736, June 9; Serial No. 630,900. Class 23.

NEA Service, Inc., Cleveland, Ohio. Comic drawings. 575,647, June 9; Serial No. 635,048, published Mar. 10, 1953. Class 38.

Naco Manufacturing Co., Huntington Park, Calif., assignor, by mesne assignments, to Root Manufacturing Co., Malta, Ohio. Hand and power-operated dusters and sprayers. 575,365, June 9; Serial No. 571,911, published Feb. 24, 1953. Class 23.

National Cylinder Gas Company, Chicago, Ill. Torches, torch handles, torch tips, etc. 575,712, June 9; Serial No. 611,140. Class 34.

National Foremen's Institute, Inc., New London, Conn. Periodicals. 575,478, June 9; Serial No. 622,671, published Mar. 10, 1953. Class 38.

National Foremen's Institute, Inc., doing business as Bureau of Business Practice, New London, Conn. Periodical. 575,479, June 9; Serial No. 622,672, published Mar. 24, 1953. Class 38.

Netzky, William, doing business under the trade name and style of Susquehanna Waist Company, Upland, Pa. Ladies' blouses and shirts. 575,583, June 9; Serial No. 632,041, published Mar. 24, 1953. Class 39.

Newark Paraffine & Parchment Paper Co., Newark, N. J. Paper bags, paper cartons, paper boxes, etc. 575,448, June 9; Serial No. 619,471, published Mar. 17, 1953. Class 2.

New Jersey Quilting Co., Inc., Jersey City, N. J. Quilted fabrics. 575,631, June 9; Serial No. 634,336, published Mar. 24, 1953. Class 42.

New Yorker Cheese Company, Philadelphia, Pa. Cheese. 575,513, June 9; Serial No. 626,104, published Mar. 10, 1953. Class 46.

New Yorker Cheese Company, Philadelphia, Pa. Cheese. 575,514, June 9; Serial No. 626,105, published Mar. 17, 1953. Class 46.

Niagara Electron Laboratories: *See*—
Hackett, Philip M.

Nopco Chemical Company, Harrison, N. J. High potency vitamin-containing solids. 575,472, June 9; Serial No. 622,274, published Feb. 17, 1953. Class 18.

Nopco Chemical Company, Harrison, N. J. Chemical compositions. 575,667, June 9; Serial No. 635,973, published Mar. 24, 1953. Class 6.

Nordmark-Werke G. m. b. H., Hamburg, Germany, vested in the Attorney General of the United States, Washington, D. C. Medicinal preparations. 301,033, renewed Feb. 14, 1953. O. G. June 9. Class 18.

Norton, Willis, & Co., Topeka, to The Willis Norton Company, Wichita, Kans. Wheat-flour. 91,367, re-renewed Apr. 29, 1953. O. G. June 9. Class 46.

Norton, Willis, Company: *See*—
Norton, Willis, & Co.

Nuodex Products Co. Inc., Elizabeth, N. J. Mildew-proofing agent. 575,637, June 9; Serial No. 634,542, published Mar. 17, 1953. Class 6.

O'Donnell-Usen Fisheries Corporation, Boston, Mass. Fresh and frozen fish. 575,547, June 9; Serial No. 629,250, published Mar. 24, 1953. Class 46.

O'Hara, Frederic S., Springfield, Ill. Game apparatus. 575,731, June 9; Serial No. 627,096. Class 22.

Olin Industries, Inc., East Alton, Ill. Frangible targets. 575,357, June 9; Serial No. 527,921, published Mar. 17, 1953. Class 22.

Ontelaunee Orchards: *See*—
Thun Investment Company.

Orchard Paper Co., St. Louis, Mo. Paper merchandise bags. 575,507, June 9; Serial No. 625,488, published Mar. 10, 1953. Class 2.

Organon Inc., Orange, N. J. Pharmaceutical preparation. 575,612, June 9; Serial No. 633,506, published Mar. 3, 1953. Class 18.

Osgood, Robert L., Los Angeles, Calif. Monthly magazine, pamphlets, books, etc. 575,521, June 9; Serial No. 626,589, published Mar. 10, 1953. Class 38.

Ostel Enterprises, Inc., Miami, Fla. Blouses, hats, skirts, etc. 575,471, June 9; Serial No. 622,088, published Mar. 10, 1953. Class 39.

Outserts, Inc., New York, N. Y. Labels. 301,764, renewed Mar. 14, 1953. O. G. June 9. Class 37.

Pacific Mills, Boston, Mass., and New York, N. Y. Fabrics. 575,677, June 9; Serial No. 636,996, published Mar. 10, 1953. Class 42.

Pac-Kups Incorporated, to Dixie Cup Company, Easton, Pa. Containers. 301,390, renewed Feb. 28, 1953. O. G. June 9. Class 2.

Palumbo, Theodore R., Keyport, N. J. Fired ceramic shapes. 575,419, June 9; Serial No. 614,060, published Mar. 17, 1953. Class 30.

Pan American World Airways, Inc., New York, N. Y. Transportation of passengers by aircraft. 575,702, June 9; Serial No. 634,858, published Mar. 17, 1953. Class 105.

Parkersburg Rig & Reel Company, The, Parkersburg, W. Va. Brakes for hoists and well rigs. 303,930, renewed June 13, 1953. O. G. June 9. Class 23.

Parnes, Samuel, & Sons, Inc., New York, N. Y. Ladies' and misses' outerwear. 575,568, June 9; Serial No. 631,121, published Mar. 24, 1953. Class 39.

Petron Corporation, Lyons, Ill. Core oils—namely, core sand binders. 575,644, June 9; Serial No. 634,754, published Mar. 24, 1953. Class 5.

Penn Metal Company, to Penn Metal Company, Inc., Roston, Mass. Metal laths, metal corners, metal corner beads, etc. 306,321, renewed Sept. 12, 1953. O. G. June 9. Class 12.

Penn Metal Company, Inc.: *See*—
Penn Metal Company.

Penney, J. C., Company, assignee: *See*—
Dunbar-Stanley Studios.

Perfect Panti Company, The: *See*—
Burns, Martin S.

Perle Bright Manufacturing Co.: *See*—
Abramowitz, Curt E.

Perry Knitting Company, Incorporated, The: *See*—
Perry Knitting Company, The.

Perry Knitting Company, The, also known as The Perry Knitting Company, Incorporated, Perry, N. Y. Toys. 575,576, June 9; Serial No. 631,761, published Mar. 24, 1953. Class 22.

Pharmacia Laboratories Inc., New York, N. Y. Injection and infusion solutions. 575,469, June 9; Serial No. 622,027, published Feb. 17, 1953. Class 18.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Soap. 575,449, June 9; Serial No. 619,713, published Mar. 17, 1953. Class 32.

Pociask, Jeanne L., doing business under the name and style of Laverne, Chicago, Ill. Flexible plastic zippered bags. 575,588, June 9; Serial No. 632,222, published Mar. 24, 1953. Class 2.

Pure Oil Company, The, Chicago, Ill. Lubricating oils. 303,057, renewed July 25, 1953. O. G. June 9. Class 15.

Pyro Plastics Corporation, Union, N. J. Toy guns and toy figures. 575,369, June 9; Serial No. 631,122, published Mar. 17, 1953. Class 22.

Rasmussen, Gerald R., Chappel, Nebr. Self-oilers designed to keep the coats of livestock from becoming dry and getting sores. 575,473, June 9; Serial No. 622,354, published Mar. 24, 1953. Class 44.

Raytheon Manufacturing Company: *See*—
Raytheon Production Corporation.

Raytheon Production Corporation, to Raytheon Manufacturing Company, Newton, Mass. Electrical space discharge tubes. 305,916, renewed Aug. 29, 1953. O. G. June 9. Class 21.

Reader's Digest Association, Inc., The, Pleasantville, N. Y. Feature articles in a periodical. 575,540–1, June 9; Serial Nos. 629,052–3, published Mar. 24, 1953. Class 38.

Reader's Digest Association, Inc., The, Pleasantville, N. Y. Feature articles in a periodical. 575,542, June 9; Serial No. 629,057, published Mar. 24, 1953. Class 38.

Reimuller, Christian J., Redlands, Calif. Vacuum style coffeemakers. 575,381, June 9; Serial No. 597,090, published Mar. 17, 1953. Class 13.

Reliable Textile Company, Inc., New York, N. Y. Linen-weave all-rayon textile fabric. 575,674, June 9; Serial No. 636,806, published Mar. 10, 1953. Class 42.

Reliance Dental Mfg. Co., Chicago, Ill. Denture repair material. 575,626, June 9; Serial No. 634,215, published Mar. 17, 1953. Class 44.

Remington Sewing Machine Manufacturing Co., Incorporated, Los Angeles, Calif. Sewing machines. 575,720, June 9; Serial No. 618,371. Class 23.

Research Products Corporation, Madison, Wis. Air filters. 575,468, June 9; Serial No. 621,984, published Mar. 10, 1953. Class 31.

Richardson Company, The, Lockland, Cincinnati, Ohio. Filter plates. 575,599, June 9; Serial No. 632,901, published Mar. 10, 1953. Class 31.

Rider, William E., operating under the name and style of Riders Limited, North Hollywood, Calif. Medicinal compound. 575,668, June 9; Serial No. 635,975, published Mar. 17, 1953. Class 18.

Riders Limited: *See*—
Rider, William E.

Riva Hermanos, to A. de la Riva Resines, doing business as Riva Hermanos Sucr., Malaga, Spain. Olive oil. 295,415, renewed June 28, 1952. O. G. June 9. Class 46.

Riva Hermanos Sucr.: *See*—
Riva Hermanos.

Riva Resines, Angel de la: *See*—
Riva Hermanos.

Rohrfabrik Ruschlikon A. G., formals Kupex A. G., Ruschlikon, Switzerland. Flexible and stiff tubes. 575,435, June 9; Serial No. 616,832, published Mar. 24, 1953. Class 13.

Roman Meal Company, Tacoma, Wash. Cereal food. 575,522, June 9; Serial No. 627,087, published Mar. 17, 1953. Class 46.

Root Manufacturing Co., assignee: *See*—
Naco Manufacturing Co.

Rootie Kazootie, Inc., New York, N. Y. Entertainment services. 575,701, June 9; Serial No. 628,651, published Mar. 24, 1953. Class 107.

Rose-Derry Company, Newton, Mass. Infants' car bed and seat. 575,722, June 9; Serial No. 619,681. Class 19.

Rosenwasser, Harry, Brooklyn, N. Y. Men's hosiery. 575,474, June 9; Serial No. 622,356, published Mar. 3, 1953. Class 39.

Ross Packing Co., Selah, Wash. Dehydrated apples. 575,711, June 9; Serial No. 610,099. Class 46.

Roto-Screen Company, Chicago, Ill. Printing presses. 575,713, June 9; Serial No. 611,240. Class 23.

Rubber Corporation of America, Brooklyn, N. Y. Natural and synthetic rubber latex compounds. 575,523, June 9; Serial No. 627,277, published Mar. 10, 1953. Class 1.

Rubinstein, Charles L., Milwaukee, Wis. Disposable paper bags. 575,350, June 9; Serial No. 630,213, published Mar. 10, 1953. Class 2.

Russell, F. C., Company, The, by The F. C. Russell Company, Cleveland, Ohio. Storm windows combination screen and storm windows, jalousies, etc. 306,078. Oct. 6, 1942. Republished June 9. Class 12.

Russell Manufacturing Company, The, Alexander City, Ala. Men's and boys' apparel and sportswear. 575,440, June 9; Serial No. 618,102, published Dec. 23, 1952. Class 39.

Ryman Engineering Company, Ellwood City, Pa. Grinding and polishing machines. 575,738, June 9; Serial No. 633,512. Class 23.

Safety Cross Mirror Co.: *See*—
Stout, Reid R.

Sandeman, Geo. G., Sons & Co, Limited, London, England. Sherry wine. 91,703, re-renewed May 20, 1953. O. G. June 9. Class 47.

Sanders, Fred, Detroit, Mich. Candy, ice cream, noodles, etc. 304,007. June 13, 1933. Republished June 9. Class 46.

Santa Anita Potteries, Los Angeles, Calif. Ceramic dinnerware. 575,660–7, June 9; Serial Nos. 635,552–3, published Mar. 17, 1953. Class 30.

Sartorius-Werke Aktiengesellschaft, Gottingen, Germany. Micrometric scales, square meter scales, beam balances, etc. 575,710, June 9; Serial No. 602,538. Class 26.

Sass-Wilson Studio, Los Angeles, Calif. Photographically grouping and shaping letters for advertising layouts on a job basis. 575,695, June 9; Serial No. 591,701, published Mar. 24, 1953. Class 101.

Schering Corporation, Bloomfield, N. J. Pharmaceutical preparation. 575,554, June 9; Serial No. 630,032, published Feb. 24, 1953. Class 18.

Schering Corporation, Bloomfield, N. J. Gall bladder X-ray diagnostic medium. 575,685, June 9; Serial No. 638,666, published Feb. 17, 1953. Class 18.

Schiess-Harwood Co., Inc., New York, N. Y. Finger rings. 575,566, June 9; Serial No. 631,026, published Mar. 24, 1953. Class 28.

Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, and knickerbockers. 575,611, June 9; Serial No. 633,468, published Mar. 17, 1953. Class 39.

Schreiber, Arthur T., Louisville, Ky. Medicinal preparation. 575,613, June 9; Serial No. 633,513, published Feb. 24, 1953. Class 18.

Seal Sac, Inc., New York, N. Y. Garment bags and blanket bags. 575,430, June 9; Serial No. 615,576, published Mar. 17, 1953. Class 2.

Sears, Roebuck and Co., Chicago, Ill. Automobile tires. 575,691, June 9; Serial No. 639,839, published Mar. 17, 1953. Class 35.

Sebel, D., and Company Limited, Erith, Kent, England. Children's bicycles and tricycles. 575,395, June 9; Serial No. 608,680, published Mar. 10, 1953. Class 22.

Selbel, W.: *See*—
Mettmanner Britanniawarenfabrik W. Selbel.

Setarti A.-G., Zurich, Switzerland. Color chart. 575,431, June 9; Serial No. 615,577, published Mar. 24, 1953. Class 38.

Sevenstrand Tackle Mfg. Co., Long Beach, Calif. Fishing lines and leaders. 575,622, June 9; Serial No. 634,121, published Mar. 24, 1953. Class 22.

Shakespeare Company, Kalamazoo, Mich. Fishing rods. 575,589, June 9; Serial No. 632,331, published Mar. 17, 1953. Class 22.

Shakespeare Company, Kalamazoo, Mich. Fishing reels, lines and artificial fishing lures. 575,720, June 9; Serial No. 626,423. Class 22.

Sbellmar Products Corporation, Chicago, Ill. Merchandise bags, tubes, and pouches. 575,571, June 9; Serial No. 631,318, published Mar. 24, 1953. Class 2.

Sberer-Gillett Company, Marshall, Mich. Storage and display food refrigerators, bottle coolers, ice cube makers, etc. 575,595, June 9; Serial No. 632,695, published Jan. 20, 1953. Class 31.

Sherman, John S., doing business as John S. Sherman Importing Company, Brooklyn, N. Y. Manicuring sets. 575,560, June 9; Serial No. 630,218, published Mar. 10, 1953. Class 44.

Sherman, John S., Importing Company: *See*—
Sherman, John S.

Shirtcraft Company, Inc., The, New York, N. Y. Negligee shirts, sport shirts, jackets, etc. 575,377, June 9; Serial No. 591,518, published Mar. 10, 1953. Class 39.

Shoffeitt, William A., doing business as Sta-Products Company, San Lorenzo, Calif. Chemical preparation. 575,386, June 9; Serial No. 603,502, published Mar. 17, 1953. Class 6.

Shore Chemical Company, Incorporated, Madison, Conn. Medicinal preparation. 575,615, June 9; Serial No. 633,636, published Feb. 24, 1953. Class 18.

Silicote Corporation, The, Oshkosh, Wis. Medicinal salves. 575,502, June 9; Serial No. 624,506, published Feb. 17, 1953. Class 18.

Simpson, Wm., Sons & Co., Inc., Philadelphia, Pa. Cotton textile fabric. 575,553, June 9; Serial No. 629,918, published Mar. 24, 1953. Class 42.

Skaller Supply Co.: *See*—
Follman, Louis.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics. 575,675–6, June 9; Serial Nos. 636,813–14, published Mar. 17, 1953. Class 42.

Skipper Publishing Company, The, Annapolis, Md. Printed publication. 575,646, June 9; Serial No. 634,998, published Mar. 10, 1953. Class 38.

Smith, Jean S.: *See*—
Gardner, Mercedes, and Smith.

Smithfield Packing Company, Incorporated, The, Smithfield, Va. Canned pork sausage, canned bulk pork sausage, ham, etc. 575,619, June 9; Serial No. 626,475, published Mar. 17, 1953. Class 46.

Société Anonyme Mido, Bienne, Switzerland. Watches, clocks, watch movements, etc. 575,641, June 9; Serial No. 634,663, published Mar. 17, 1953. Class 27.

Society for Visual Education, Inc., Chicago, Ill. Projector for projecting images upon a screen. 575,402, June 9; Serial No. 610,033, published Feb. 3, 1953. Class 26.

Sockett, Phillip S., Los Angeles, Calif. Leather cases for spectacles and sunglasses. 575,709, June 9; Serial No. 599,720. Class 26.

Sommers, Edward S., doing business under the style name of Demi-Tint Industries, Chicago, Ill. Diaphanous photographs. 575,392, June 9; Serial No. 607,050, published Mar. 10, 1953. Class 38.

Southern Acid & Sulphur Company, Incorporated: *See*—
Mathieson Chemical Corporation.

Space Stamps Co., New York, N. Y. Pictorial novelty stamps. 575,621, June 9; Serial No. 634,058, published Mar. 24, 1953. Class 38.

Spee-D-Tan Co.: *See*—
Friedberg, Samuel.

Sprague & Henwood, Incorporated, Scranton, Pa. Rock drilling tools. 575,396, June 9; Serial No. 608,681, published Mar. 3, 1953. Class 23.

Springs Cotton Mills, The, Lancaster, S. C. Sheets and pillow cases. 575,681, June 9; Serial No. 637,618, published Mar. 24, 1953. Class 42.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Sodium-ion-removing preparation. 575,536, June 9; Serial No. 628,787, published Feb. 17, 1953. Class 18.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for treatment of and prophylaxis against infections. 575,537, June 9; Serial No. 628,788, published Feb. 17, 1953. Class 18.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Cylinder-oil, engine-oil, and gas-engine oil. 92,839, re-renewed July 29, 1953. O. G. June 9. Class 15.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Publications. 575,408, June 9; Serial No. 611,920, published Mar. 10, 1953. Class 38.

Standard Scientific Supply Corp., New York, N. Y. Laboratory appliances. 575,393, June 9; Serial No. 607,147, published Feb. 3, 1953. Class 26.

Sta-Products Company: *See*—
Shoffeitt, William A.

Steelcote Manufacturing Company, St. Louis, Mo. Paints, varnishes, paint enamels, etc. 575,438, June 9; Serial No. 617,361, published Mar. 17, 1953. Class 16.

Stewart, James E., Minneapolis, Minn. Unit package of lumber. 575,705, June 9; Serial No. 585,033. Class 12.

Stone Mill Products Co., Grand Rapids, Mich. Baked goods. 575,524, June 9; Serial No. 627,471, published Mar. 17, 1953. Class 46.

Stout, Reid R., doing business as Safety Cross Mirror Co., Lambertville, Mich. Mirror to be mounted on automotive vehicles. 575,415, June 9; Serial No. 613,199, published Mar. 17, 1953. Class 19.

Stover, Oscar H., doing business under the names and styles of The Graoc Dairy Products Co., The Graoc Farm Dairy, and Graoc Farm Dairy, East Aurora, N. Y. Cheese, butter, ice cream, fresh buttermilk, etc. 575,659, June 9; Serial No. 635,442, published Mar. 24, 1953. Class 46.

Stylecraft Frocks, Inc., Philadelphia, Pa. Materials cut out and prepared ready for sewing into dresses. 575,512, June 9; Serial No. 625,829, published Mar. 24, 1953. Class 39.

Supervision Publishing Co. Inc., New York, N. Y. Section of a periodic publication. 575,470, June 9; Serial No. 622,957, published Mar. 10, 1953. Class 38.

Susquehanna Waist Company: *See*—
Netzky, William.

Swift & Company, Chicago, Ill. Baby chicks, seed meals. 575,443, June 9; Serial No. 618,945, published Mar. 10, 1953. Class 1.

Tabril Company, The, Philadelphia, Pa. Preparation for use as an aid in the relief from pain and discomfort of simple headaches, etc. 575,433, June 9; Serial No. 616,303, published Feb. 24, 1953. Class 18.

Takahashi, C. T., & Co.: *See*—
Takahashi, Charles T.

Takahashi, Charles T., doing business under the name of C. T. Takahashi & Co., Seattle, Wash. Optical goods. 575,623, June 9; Serial No. 634,126, published Mar. 3, 1953. Class 26.

Takamine Laboratory, Inc., Clifton, N. J. Cleansing compound. 303,925, renewed June 13, 1953. O. G. June 9. Class 52.

Technical Materiel Corporation, The, Mamaroneck, N. Y. Electronic communications equipment. 575,412, June 9; Serial No. 612,568, published Mar. 17, 1953. Class 21.

Temp Realsto Corporation, New York, N. Y. Insulated lining fabrics. 575,508, June 9; Serial No. 625,550, published Mar. 10, 1953. Class 42.

Tennessee Supply Co., Greeneville, Tenn. Liquid composition to remove obnoxious odors. 575,378, June 9; Serial No. 593,757, published Mar. 24, 1953. Class 6.

Terrytoons, Inc., New Rochelle, N. Y. Series of motion picture animated cartoons. 575,488, June 9; Serial No. 623,437, published Feb. 3, 1953. Class 26.

Thomas Company, The, Minneapolis, Minn. Non-oily, lacquer-like protective coating. 575,374, June 9; Serial No. 586,775, published July 17, 1951. Class 16.

Thomas Company, The, Minneapolis, Minn. Non-oily, lacquer-like protective coating. 575,375, June 9; Serial No. 587,093, published May 29, 1951. Class 16.

Thun Investment Company, doing business as Ontelaunee Orchards, Reading and Leesport, Pa. Applebutter and honey. 575,423, June 9; Serial No. 614,585, published Mar. 24, 1953. Class 46.

Tinling, Inc., New York, N. Y. Women's sport dresses, slacks, cardigans, and jackets, etc. 575,455, June 9; Serial No. 620,446, published Mar. 10, 1953. Class 39.

Titmus Optical Company, Inc., Petersburg, Va. Ophthalmic lenses. 575,439, June 9; Serial No. 617,775, published Mar. 10, 1953. Class 26.

Toledo Hot House Cooperative Association, Toledo, Ohio. Fresh tomatoes. 575,399, June 9; Serial No. 609,574, published Mar. 10, 1953. Class 46.

Torbert Laboratories, Inc., New Rochelle, N. Y. Antiseptic deodorant. 575,619, June 9; Serial No. 633,891, published Mar. 17, 1953. Class 18.

Towle Manufacturing Company, Newburyport, Mass. Sterling silver and sterling silver mounted flatware and table cutlery. 575,670, June 9; Serial No. 636,317, published Mar. 24, 1953. Class 28.

Traffic House, Inc., Marshall, Mich. Speed control instruments. 575,409, June 9; Serial No. 611,981, published Feb. 3, 1953. Class 26.

Trans-Arabian Pipe Line Company, New York, N. Y., and Beirut, Lebanon. Metal barrels, drums and stationary tanks. 575,581, June 9; Serial No. 631,961, published Mar. 10, 1953. Class 2.

Trojan Rivet Corporation, Glendale, Calif. Rivets. 575,496, June 9; Serial No. 623,998, published Mar. 24, 1953. Class 13.

Trusty Manufacturers, Inc., La Porte, Ind. Refrigerated display cases. 575,394, June 9; Serial No. 607,462, published Mar. 3, 1953. Class 31.

Tyler, Maybra E., doing business as Balm-of-Gilead Salve Co., Yakima, Wash. Salve. 575,406, June 9; Serial No. 611,003, published Feb. 24, 1953. Class 18.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United Elastic Corporation, Easthampton, Mass. Elastic fabrics. 575,467, June 9; Serial No. 621,604, published Mar. 17, 1953. Class 42.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. 575,648, June 9; Serial No. 635,105, published Mar. 24, 1953. Class 42.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. 575,652, June 9; Serial No. 635,203, published Mar. 24, 1953. Class 42.

United States Rubber Company, New York, N. Y. Rubber flooring. 300,949, Feb. 14, 1933. Republished June 9. Classes 12 and 50.

United States Rubber Company, New York, N. Y. High pressure hose. 301,934, Mar. 21, 1933. Republished June 9. Class 35.

United States Rubber Company, New York, N. Y. Golf balls. 575,633, June 9; Serial No. 634,388, published Mar. 24, 1953. Class 22.

U. S. Specialties Co., Inc., New York, N. Y. Toys. 575,741, June 9; Serial No. 638,885. Class 22.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel sheets and strip. 575,527, June 9; Serial No. 627,719, published Mar. 10, 1953. Class 14.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel sheets and strip. 575,528, June 9; Serial No. 627,723, published Mar. 10, 1953. Class 14.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel. 575,534, June 9; Serial No. 628,657, published Mar. 10, 1953. Class 14.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel. 575,535, June 9; Serial No. 628,659, published Mar. 10, 1953. Class 14.

United States Steel Corporation: *See*—
United States Steel Company.

Universal Optical Company, Inc., Providence, R. I. Frames for glasses. 575,580, June 9; Serial No. 631,953, published Mar. 24, 1953. Class 26.

Upjohn Company, The, Kalamazoo, Mich. Antibiotic preparation. 575,558, June 9; Serial No. 630,174, published Mar. 3, 1953. Class 18.

Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets and oil seals. 575,669, June 9; Serial No. 636,160, published Mar. 17, 1953. Class 35.

Vilas & Company, also doing business as Holstein Produce & Hatchery, Storm Lake and Holstein, Iowa. Baby chicks and turkey poults. 575,577, June 9; Serial No. 631,767, published Mar. 10, 1953. Class 1.

Vulcan Rubber Products, Inc., Brooklyn, N. Y. Nylon coated material used as tarpaulins and protective coverings. 575,735, June 9; Serial No. 629,640. Class 50.

Walte Carpet Co., Oshkosh, Wis. Textile rugs and carpets. 575,673, June 9; Serial No. 636,618, published Mar. 10, 1953. Class 42.

Walker Laboratories, Inc., Mount Vernon, N. Y. Pharmaceutical preparation. 575,555, June 9; Serial No. 630,047, published Feb. 24, 1953. Class 18.

Wallace, R., & Sons Manfg. Co., The, Wallingford, Conn. Sterling silver flatware. 575,671, June 9; Serial No. 636,318, published Mar. 17, 1953. Class 28.

Waylite Company, The: *See*—
Danville Brick Company.

Welch Nurseries, Inc., The, Shenandoah, Iowa. Nursery stock. 575,574–5, June 9; Serial Nos. 631,588–9, published Mar. 10, 1953. Class 1.

West Side Dairy: *See*—
Wyttenbach, Frans.

Western Lithograph Company, Los Angeles, Calif. Printed adhesive markers. 575,600, June 9; Serial No. 632,908, published Mar. 10, 1953. Class 38.

Wheelwright, Geo. W., Paper Company, Boston, Mass., to The Mead Corporation, Dayton, Ohio. Writing and printing paper and bristol-board. 89,315, re-renewed Dec. 3, 1952. O. G. June 9. Class 37.

White, James H., Brooklyn, N. Y. Strainers, filters, and silica gel refrigerant dryers. 575,417, June 9; Serial No. 613,483, published Mar. 24, 1953. Class 31.

White Sea & Baltic Company, P. & I. Danischewsky, Limited, The, London, England. Raw or partly prepared vegetable, animal, and mineral substances used in manufacture of turpentine, etc. 381,788, Oct. 8, 1940. Republished June 9, 1953. Classes 1, 6, and 16.

Wickes Corporation, The, Saginaw, Mich. Pulverized graphite mixture. 575,485, June 9; Serial No. 623,225, published Mar. 10, 1953. Class 1.

Wiegand, Edwin L., Company, Pittsburgh, Pa. Switches. 575,457, June 9; Serial No. 620,536, published Mar. 17, 1953. Class 21.

Willard & Giles Inc., New York, N. Y. Textile ribbons. 575,618, June 9; Serial No. 633,811, published Mar. 24, 1953. Class 42.

Williams, C. K., & Co., Easton, Pa. Finely divided pigment. 575,690, June 9; Serial No. 639,355, published Mar. 24, 1953. Class 6.

Williams, C. K. & Co., Easton, Pa. Finely divided pigment. 575,692, June 9; Serial No. 640,026, published Mar. 24, 1953. Class 6.

Williams Distributing Company. *See*—
Williams, Roger F.

Williams, Roger F., doing business as Williams Distributing Company, Des Moines, Iowa. Chemical liquid. 575,382, June 9; Serial No. 597,558, published Mar. 17, 1953. Class 6.

Willson Products, Inc., Reading, Pa. Ophthalmic mountings and parts thereof including goggles and protection-glass lenses. 575,464, June 9; Serial No. 621,186, published Feb. 3, 1953. Class 26.

Willson Products, Inc., Reading, Pa. Respirators and parts thereof. 575,605, June 9; Serial No. 633,282, published Mar. 22, 1953. Class 44.

Wilson Sporting Goods Co., Chicago, Ill. Inflated balls. 575,624, June 9; Serial No. 634,130, published Mar. 24, 1953. Class 22.

Wolf, E. J., doing business as Alaska Fertilizer Company, Seattle, Wash. Fish fertilizer. 575,737, June 9; Serial No. 632,056. Class 10.

Wolf, Robert S., doing business under the name and style of Holiday Frosted Food Co., Philadelphia, Pa., assignee, by mesne assignments, of Holiday Frosted Food Co. Frozen meats. 575,426, June 9; Serial No. 614,876, published Mar. 10, 1953. Class 46.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Potassium carbonate and phenolphthalein. 575,679, June 9; Serial No. 637,220, published Mar. 17, 1953. Class 6.

Wood, T. D., & Sons, Richmond, Va. Lawn grass seed. 575,628, June 9; Serial No. 634,284, published Mar. 24, 1953. Class 1.

Woolridge Coal Mining Company, Clearfield, Pa. Coal. 575,429, June 9; Serial No. 615,511, published Mar. 10, 1953. Class 1.

Wret Publishing Co., Inc., Minneapolis, Minn. Boys' periodical magazine. 575,578, June 9; Serial No. 631,770, published Mar. 17, 1953. Class 38.

Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Preparation of dihydrostreptomycin, pectin, kaolin, and alumina. 575,688, June 9; Serial No. 639,257, published Feb. 24, 1953. Class 18.

Wyttenbach, Frans, doing business as West Side Dairy, Sauk City, Wis. Cheese and fresh milk. 575,708, June 9; Serial No. 590,143. Class 46.

Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. 575,632, June 9; Serial No. 634,359, published Mar. 22, 1953. Class 44.

Zjegler, Harry B., Duncan, Okla. Game cards and booklets for use in a bingo game. 575,638, June 9; Serial No. 634,563, published Mar. 24, 1953. Class 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Baby chicks and turkey poults. Vilas & Company. 575,577, June 9; Serial No. 631,767, published Mar. 10, 1953.

Baby chicks, seed meals. Swift & Company. 575,445, June 9; Serial No. 618,945, published Mar. 10, 1953.

Bone black. E. F. Houghton & Co. 91,212, Apr. 22, 1913; republished June 9, 1953.

Bristles, sponges, ores, sand, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,116, renewed Feb. 21, 1953. O. G. June 9.

Chamois and sponges. Atlantic Sponge & Chamois Corporation. 575,483, June 9; Serial No. 622,917, published Mar. 10, 1953.

Coal. Woolridge Coal Mining Company. 575,429, June 9; Serial No. 615,511, published Mar. 10, 1953.

Graphite mixture, Pulverized. The Wickes Corporation. 575,485, June 9; Serial No. 623,225, published Mar. 10, 1953.

Hops. E. Clemens Horst Co. 575,597, June 9; Serial No. 632,817, published Mar. 17, 1953.

India-rubber latex. Dunlop Rubber Company Limited. 575,362, June 9; Serial No. 563,246, published Mar. 17, 1953.

Leathers, Textile. Graton & Knight Company. 575,570, June 9; Serial No. 631,154, published Mar. 10, 1953.

Limestone, Pulverized. H. E. Millard Lime and Stone Company. 575,509, June 9; Serial No. 625,615, published Mar. 10, 1953.

Natural and synthetic rubber latex compounds. Rubber Corporation of America. 575,523, June 9; Serial No. 627,277, published Mar. 10, 1953.

Nursery stock. The Welch Nurseries, Inc. 575,574–5, June 9; Serial Nos. 631,588–9, published Mar. 10, 1953.

Raw or partly prepared vegetable, animal, and mineral substances used in manufacture of turpentine, etc. The White Sea & Baltic Company, P. & I. Danischewsky, Limited. 381,788, Oct. 8, 1940; republished June 9, 1953.

Seed, Lawn grass. T. D. Wood & Sons. 575,628, June 9; Serial No. 634,284, published Mar. 24, 1953.

Seeds. Ferry-Morse Seed Co. 575,379, June 9; Serial No. 594,440, published Mar. 24, 1953.

Sisal fiber matting. American Reenforced Paper Company. 575,372, June 9; Serial No. 583,635, published Mar. 10, 1953.

CLASS 2

Bags, Disposable paper. C. L. Rubinstein. 575,559, June 9; Serial No. 630,213, published Mar. 10, 1953.

Bags, Empty. Joe Lowe Corporation. 575,407, June 9; Serial No. 611,795, published Mar. 17, 1953.

Bags, Flexible plastic zippered. J. L. Poclask. 575,588, June 9; Serial No. 632,222, published Mar. 24, 1953.

Bags, Garment, and blanket bags. Seal Sac, Inc. 575,430, June 9; Serial No. 615,576, published Mar. 17, 1953.

Bags, Merchandise, tubes, and pouches. Shellmar Products Corporation. 575,571, June 9; Serial No. 631,318, published Mar. 24, 1953.

Bags, Paper mechandise. Orchard Paper Co. 575,507, June 9; Serial No. 625,488, published Mar. 10, 1953.

Bags, Paper, paper cartons, paper boxes, etc. Newark Paramine & Parchmeut Paper Co. 575,448, June 9; Serial No. 619,471, published Mar. 17, 1953.

Barrels, drums and stationary tanks, Metal. Trans-Arabian Pipe Line Company. 575,581, June 9; Serial No. 631,961, published Mar. 10, 1953.

Boxes, Paperboard. F. H. Hayes. 575,567, June 9; Serial No. 631,104, published Mar. 17, 1953.

Cans, Garbage. The Bellaire Enamel Company. 575,370, June 9; Serial No. 580,393, published Mar. 10, 1953.

Caskets and burial vaults. Atlanta Metallic Casket Company. 575,653, June 9; Serial No. 635,248, published Mar. 17, 1953.

Containers. Pac-Kups Incorporated. 301,390, renewed Feb. 28, 1953. O. G. June 9.

Housewares, Plastic, namely, boxes for meat storage in refrigerators. Burroughs Manufacturing Corporation. 575,586, June 9; Serial No. 632,151, published Mar. 17, 1953.

Trays. The Diamond Match Company. 575,654–5, June 9; Serial Nos. 635,290–1, published Mar. 10, 1953.

Trays. The Diamond Match Company. 575,658, June 9; Serial No. 635,409, published Mar. 17, 1953.

CLASS 4

Abrasive lawn mower sharpening compounds. Foley Manufacturing Company. 575,643, June 9; Serial No. 634,736, published Mar. 24, 1953.

Cleaning, scouring and polishing wads, pads, rolls, and cloths. Brillo Manufacturing Company, Inc., 305,094, renewed Aug. 1, 1953. O. G. June 9.

Polish, Automobile. W. G. Moore. 575,734, June 9; Serial No. 628,116.

CLASS 5

Adhesive cement, Asphaltic composition. The Philip Carey Manufacturing Company. 575,360, June 9; Serial No. 556,475, published Mar. 24, 1953.

Adhesive tapes, Water moistenable gummed. The Gummed Products Company. 575,460, June 9; Serial No. 620,915, published Mar. 24, 1953.

Cohesive coated sheet materials, Natural and/or synthetic rubber-like. The Gummed Products Company. 575,403, June 9; Serial No. 610,214, published Mar. 17, 1953.

Core oils—namely, core sand binders. Peiron Corporation. 575,644, June 9; Serial No. 634,754, published Mar. 24, 1953.

CLASS 6

Chemical composition. Dewey and Almy Chemical Company. 576,646, Feb. 17. Corrected. O. G. June 9.

Chemical compositions. Nopco Chemical Company. 575,667, June 9; Serial No. 635,973, published Mar. 24, 1953.

Chemical liquid. R. F. Williams. 575,382, June 9; Serial No. 597,558, published Mar. 17, 1953.

Chemical preparation. W. A. Shoffeitt. 575,386, June 9; Serial No. 603,502, published Mar. 17, 1953.

Chemicals, Photographic. Dr. Edgar Gretener A. G. 575,614, June 9; Serial No. 633,580, published Mar. 17, 1953.

Color compositions and carriers therefor, and auxiliary compositions used in conjunction therewith. Aula Chemicals, Inc. 575,687, June 9; Serial No. 639,203, published Mar. 24, 1953.

Coloring agents. General Dyestuff Corporation. 575,444, June 9; Serial No. 618,920, published Mar. 17, 1953.

Disinfectant and household germicide. The Gerson-Stewart Corporation Company. 575,401, June 9; Serial No. 610,011, published Mar. 17, 1953.

Dyestuffs. Ciba Limited. 575,549, June 9; Serial No. 629,358, published Mar. 24, 1953.

Finely divided pigment. C. K. Williams & Co. 575,690, June 9; Serial No. 639,355, published Mar. 24, 1953.

Finely divided pigment. C. K. Williams & Co. 575,692, June 9; Serial No. 640,026, published Mar. 24, 1953.

Fluxes, Soldering. Kester Solder Company. 302,757, renewed Apr. 25, 1953. O. G. June 9.

Fluxes, Soldering. Kester Solder Company. 302,846, renewed May 2, 1953. O. G. June 9.

Hexachlorobutadiene. Hooker Electrochemical Company. 575,546, June 9; Serial No. 629,163, published Mar. 17, 1953.

Insecticide. American Scientific Laboratories, Inc. 575,617, June 9; Serial No. 633,699, published Mar. 17, 1953.

Insecticide and fungicide. The Kilgore Seed Company. 575,504, June 9; Serial No. 624,748, published Mar. 17, 1953.

Insecticides. John Lecroy & Son. 304,576, renewed July 11, 1953. O. G. June 9.

Liquid composition to remove obnoxious odors. Tennessee Supply Co. 575,378, June 9; Serial No. 593,757, published Mar. 24, 1953.

Microcrystalline wax. Bareco Oil Company. 575,505, June 9; Serial No. 624,773, published Mar. 24, 1953.

Mildewproofing agent. Nnodex Products Co. Inc. 575,637, June 9; Serial No. 634,542, published Mar. 17, 1953.

Optical bleaching agents and color brightening agents. Mayborn Products Limited. 575,562, June 9; Serial No. 630,331, published Mar. 17, 1953.

Polyhydric alcohols, Various. Heyden Chemical Corporation. 575,602, June 9; Serial No. 635,652, published Mar. 17, 1953.

Potassium carbonate and phenolphthalein. H. Wong. 575,679, June 9; Serial No. 637,220, published Mar. 17, 1953.

Preparation used as an addition agent in electroplating solutions. The Lea Manufacturing Company. 575,663, June 9; Serial No. 635,702, published Mar. 24, 1953.

Raw or partly prepared vegetable, animal, and mineral substances used in manufacture, of turpentine, etc. The White Sea & Baltic Company, P. & I. Danischewsky, Limited. 381,788, Oct. 8, 1940. Republished June 9.

Slime control agents. W. H. and L. D. Betz. 575,604, June 9; Serial No. 633,250, published Mar. 17, 1953.

Starch, Liquid. Jones Chemicals, Inc. 575,603, June 9; Serial No. 633,204, published Mar. 17, 1953.

Sulphur. Mathieson Chemical Corporation. 575,366, June 9; Serial No. 576,153, published Mar. 17, 1953.

Sulphur. Mathieson Chemical Corporation. 575,367, June 9; Serial No. 576,155, published Mar. 17, 1953.

Sulphur, Flour. Mathieson Chemical Corporation. 575,368, June 9; Serial No. 576,156, published Mar. 17, 1953.

Sulphur, Sublimed. Mathieson Chemical Corporation. 575,369, June 9; Serial No. 576,161, published Mar. 17, 1953.

Synthetic organosilanes, organohalogenosilanes, etc. General Electric Company. 575,565, June 9; Serial No. 630,889, published Mar. 17, 1953.
Textile softeners. Fluff-It Corporation. 575,721, June 9; Serial No. 619,614.
Water purification compound. Abbott Laboratories. 575,664, June 9; Serial No. 635,868, published Mar. 17, 1953.

CLASS 10

Fertilizers, Fish. E. J. Wolf. 575,737, June 9; Serial No. 632,056.

CLASS 12

Building block, building brick, etc. Danville Brick Company. 301,395, Feb. 28, 1933. Republished June 9.
Laths, Metal, metal corners, metal corner beads, etc. Penn Metal Company. 306,321, renewed Sept. 12, 1953. O. G. June 9, 1953.
Lumber, Unit package of. J. E. Stewart. 575,705, June 9; Serial No. 585,933.
Rubber flooring. United States Rubber Company. 300,949, Feb. 14, 1933. Republished June 9.
Windows, Storm, combination screen and storm windows, jalousies, etc. The F. C. Russell Company. 398,078, Oct. 6, 1942. Republished June 9, 1953.

CLASS 13

Assembly of a plurality of metallic tubes. Bailey Meter Company. 575,714, June 9; Serial No. 613,208.
Chains, Anti-skid. Horner & Robertson, Inc. 575,718, June 9; Serial No. 617,030.
Coffeemakers, Vacuum style. C. J. Reimuller. 575,381, June 9; Serial No. 597,096, published Mar. 17, 1953.
Flexible and stiff tubes. Rohrfabrik Rüschlikon A. G., vormals Kopex A. G. 575,435, June 9; Serial No. 616,832, published Mar. 24, 1953.
Hardware, Door, window and cabinet, curtain hardware, clothesline hardware. Grant Pulley & Hardware Co. 575,515, June 9; Serial No. 626,161, published Mar. 24, 1953.
Rivets. Trojan Rivet Corporation. 575,496, June 9; Serial No. 623,998, published Mar. 24, 1953.
Screw anchors. G. F. Croessant. 575,446, June 9; Serial No. 619,191, published Mar. 24, 1953.
Utensil support, Cooking. H. H. Maynard. 575,730, June 9; Serial No. 627,345.
Water-guiding spout, Hand manipulable. J. R. Hunneman, Jr. 575,418, June 9; Serial No. 613,509, published Mar. 24, 1953.

CLASS 14

Solder. Kester Solder Company. 302,848, renewed May 2, 1953. O. G. June 9.
Steel. United States Steel Company. 575,534, June 9; Serial No. 628,657, published Mar. 10, 1953.
Steel. United States Steel Company. 575,535, June 9; Serial No. 628,659, published Mar. 10, 1953.
Steel castings, Alloy, smooth hammered forgings, and electrically welded composite, etc. The Forging and Casting Corporation. 301,594–6, renewed Mar. 7, 1953. O. G. June 9.
Steel forgings, Hot work die. Heppenstall Company. 575,490–1, June 9; Serial Nos. 623,600–1, published Mar. 17, 1953.
Steel sheets and strip. United States Steel Company. 575,527, June 9; Serial No. 627,719, published Mar. 10, 1953.
Steel sheets and strip. United States Steel Company. 575,528, June 9; Serial No. 627,723, published Mar. 10, 1953.

CLASS 15

Cylinder-oil, engine-oil, and gas-engine oil. Standard Oil Company. 92,839, re-renewed July 29, 1953. O. G. June 9.
Greases, Lubricating. E. F. Houghton & Co. 300,909, Feb. 14, 1933. Republished June 9.
Oils, Lubricating. E. F. Houghton & Co. 90,889, Apr. 1, 1913. Republished June 9.
Oils, Lubricating. The Pure Oil Company. 305,057, renewed July 25, 1953. O. G. June 9.

CLASS 16

Coating, Non-oily, lacquer-like protective. The Thomas Company. 575,374, June 9; Serial No. 586,775, published July 17, 1951.
Coating, Non-oily, lacquer-like protective. The Thomas Company. 575,375, June 9; Serial No. 587,093, published May 29, 1951.
Liquid composition for forming a rust and corrosive-resistant film over chrome surfaces. Anderson Mulder Company, Inc. 575,723, June 9; Serial No. 619,962.
Paint, Mixed, varnish, prepared shellac, and paint enamels. L. Follman. 295,054, renewed June 14, 1952. O. G. June 9.
Paint, Ready-mixed, varnishes, wood stains, etc. General Paint & Varnish Co. 575,363, June 9; Serial No. 564,013, published Mar. 24, 1953.
Paints, Ready mixed, varnishes, lacquers, etc. Body Bros., Inc. 575,388, June 9; Serial No. 604,517, published Mar. 10, 1953.
Paints, varnishes, paint enamels, etc. Steelcote Manufacturing Company. 575,438, June 9; Serial No. 617,561, published Mar. 17, 1953.
Raw or partly prepared vegetable, animal, and mineral subatances used in manufacture, of turpentine, etc. The White Sea & Baltic Company, The P. & I. Daniachewsky, Limited. 381,788, Oct. 8, 1940. Republished June 9.

CLASS 17

Tobacco, Smoking, and cigarettes. Larus & Brother Company. 301,418, Feb. 28, 1933. Republished June 9.

CLASS 18

Anesthetic, Local. Eli Lilly and Company. 305,894, renewed Aug. 29, 1953. O. G. June 9.
Antibiotic combustion. Bristol Laboratories Inc. 575,518, June 9; Serial No. 626,366, published Feb. 17, 1953.
Antibiotic derivative. Bristol Laboratories Inc. 575,516, June 9; Serial No. 626,302, published Feb. 17, 1953.
Antibiotic derivative. Bristol Laboratories Inc. 575,517, June 9; Serial No. 626,307, published Feb. 17, 1953.
Antibiotic preparation. The Upjohn Company. 575,558, June 9; Serial No. 630,174, published Mar. 3, 1953.
Antibiotic troche. Abbott Laboratories. 575,463, June 9; Serial No. 621,114, published Mar. 3, 1953.
Antiseptic deodorant. Torbert Laboratories, Inc. 575,619, June 9; Serial No. 633,891, published Mar. 17, 1953.
Bromin compound. The Hoffmann-La Roche Chemical Works. 91,343, re-renewed Apr. 29, 1953. O. G. June 9.
Chemotherapeutic agent. Farbenfabriken Bayer. 575,686, June 9; Serial No. 638,953, published Feb. 24, 1953.
Composition having hypnotic sedative anesthetic and cerebral stimulating properties. Abbott Laboratories. 575,625, June 9; Serial No. 634,178, published Mar. 3, 1953.
Constipation remedy. Agar-Lac, Inc. 90,083, re-renewed Feb. 4, 1953. O. G. June 9.
Enzyme-vitamin combination. Crookes Laboratories, Inc. 575,454, June 9; Serial No. 620,336, published Feb. 24, 1953.
Gall bladder X-ray diagnostic medium. Schering Corporation. 575,685, June 9; Serial No. 638,666, published Feb. 17, 1953.
Injection and infusion solutions. Pharmacia Laboratories Inc. 575,469, June 9; Serial No. 622,027, published Feb. 17, 1953.
Laxative, Colloid. Jackson-Mitchell Pharmaceuticals, Inc. 575,411, June 9; Serial No. 612,548, published Feb. 24, 1953.
Medical preparation. Cutter Laboratories. 575,579, June 9; Serial No. 631,920, published Mar. 3, 1953.
Medicinal bitters. Martini & Rossi Corporation. 575,481, June 9; Serial No. 622,752, published Feb. 17, 1953.
Medicinal compound. W. B. Rider. 575,608, June 9; Serial No. 633,975, published Mar. 17, 1953.
Medicinal preparation. L. J. Betz. 575,609, June 9; Serial No. 633,443, published Feb. 24, 1953.
Medicinal preparation. Eli Lilly and Company. 575,689, June 9; Serial No. 639,319, published Feb. 24, 1953.
Medicinal preparation. A. T. Schreiber. 575,613, June 9; Serial No. 633,513, published Feb. 24, 1953.
Medicinal preparation. Shore Chemical Company, Incorporated. 575,615, June 9; Serial No. 633,636, published Feb. 24, 1953.
Medicinal preparation, External. Ivo, Inc. 575,724, June 9; Serial No. 620,782.
Medicinal preparations. Nordmark-Werke G. m. b. H. 301,053, renewed Feb. 14, 1953. O. G. June 9.
Medicinal salves. The Silocots Corporation. 575,502, June 9; Serial No. 624,506, published Feb. 17, 1953.
Medicinal tooth powder. C. B. Abramowitz. 575,436, June 9; Serial No. 617,180, published Feb. 17, 1953.
Medicines for human use. Gabail Limited. 301,985, renewed Mar. 21, 1953. O. G. June 9.
Ointment. R. L. Atkins. 575,727, June 9; Serial No. 625,089.
Pas (para-aminosalicylic acid), its salts and its derivatives. Farbwerke Hoechst, vormals Meister Lucius & Brüning. 575,480, June 9; Serial No. 622,710, published Feb. 17, 1953.
Pharmaceutical preparation. Organon Inc. 575,612, June 9; Serial No. 633,506, published Mar. 3, 1953.
Pharmaceutical preparation. Schering Corporation. 575,554, June 9; Serial No. 630,032, published Feb. 24, 1953.
Pharmaceutical preparation. Walker Laboratories, Inc. 575,555, June 9; Serial No. 630,047, published Feb. 24, 1953.
Pharmaceuticals, and in particular antibiotics. Commercial Solvents Corporation. 575,434, June 9; Serial No. 616,367, published Feb. 24, 1953.
Preparation for treatment of and prophylaxis against infections. E. R. Squibb & Sons. 575,537, June 9; Serial No. 628,788, published Feb. 17, 1953.
Preparation for use as an aid in the relief from pain and discomfort of simple headaches, etc. The Tabril Company. 575,433, June 9; Serial No. 616,303, published Feb. 24, 1953.

Preparation in tablet form used in hypertension. J. P. Key. 575,447, June 9; Serial No. 619,298, published Feb. 17, 1953.
Preparation of dihydrostreptomycin, pectin, kaolin, and alumina. Wyeth Incorporated. 575,688, June 9; Serial No. 639,237, published Feb. 24, 1953.
Preparations for use as a medicine or tonic and for other analogous uses. Hulman & Company. 575,390, June 9; Serial No. 605,034, published Feb. 17, 1953.
Salve. M. E. Tyler. 575,406, June 9; Serial No. 611,003, published Feb. 24, 1953.
Sodium-ion-removing preparation. E. R. Squibb & Sons. 575,536, June 9; Serial No. 628,787, published Feb. 17, 1953.
Special liver-stomach interaction product, iron ammonium citrate, green, and B vitamin concentrate. Eli Lilly and Company. 305,354, renewed Aug. 15, 1953. O. G. June 9.
Tablets for use in the treatment of arterio-sclerosis. Boericke & Runyon, Inc. 575,425, June 9; Serial No. 614,810, published Feb. 24, 1953.
Vitamin-containing solids, High potency. Nopco Chemical Company. 575,472, June 9; Serial No. 622,274, published Feb. 17, 1953.
Vitamin preparation, High potency multiple. Chicago Pharmacal Company. 575,592, June 9; Serial No. 632,602, published Mar. 3, 1953.
Vitamin supplements. Merck & Co., Inc. 575,484, June 9; Serial No. 623,000, published Feb. 17, 1953.

CLASS 19

Aircraft. Gyrodyne Company of America, Inc. 575,495, June 9; Serial No. 610,620, published Mar. 3, 1953.
Car bed and seat, Infants'. Rose-Derry Company. 575,722, June 9; Serial No. 619,081.
Containers for waste, which are insertable in journal boxes of railway cars. Hulsen Company. 575,584, June 9; Serial No. 632,086, published Mar. 17, 1953.
Mirror to be mounted on automotive vehicles. R. R. Stout. 575,415, June 9; Serial No. 613,199, published Mar. 17, 1953.
Plastic sunlight filter attachments for windshields and windows of vehicles. H. N. Jacobson. 575,596, June 9; Serial No. 632,787, published Mar. 17, 1953.
Seat covers for automobiles and for vehicles. Glostex Products, Inc. 575,645, June 9; Serial No. 634,899, published Mar. 24, 1953.
Stabilizers for automotive vehicles. The Kimball Co. 575,616, June 9; Serial No. 633,675, published Mar. 24, 1953.

CLASS 21

Automatic dimmer for vehicle headlights. General Motors Corporation. 575,529, June 9; Serial No. 627,877, published Mar. 17, 1953.
Communications equipment, Electronic. The Technical Materiel Corporation. 575,412, June 9; Serial No. 612,568, published Mar. 17, 1953.
Electric control switches. Furnas Electric Company. 575,704, June 9; Serial No. 584,982.
Electrical panelboards and electrical load centers and parts thereof. General Electric Company. 575,443, June 9; Serial No. 618,850, published Mar. 17, 1953.
Electrical space discharge tubes. Raytheon Production Corporation. 305,916, renewed Aug. 29, 1953. O. G. June 9.
Electronic relays. P. M. Hackett. 575,410, June 9; Serial No. 612,256, published Mar. 17, 1953.
Floor polisher attachment for electric vacuum cleaners. Interstate Engineering Corporation. 575,441, June 9; Serial No. 618,298, published Mar. 17, 1953.
Switches. Edwin L. Wiegand Company. 575,457, June 9; Serial No. 620,536, published Mar. 17, 1953.

CLASS 22

Bait buckets, Pulp. Animal Trap Company of America. 575,649, June 9; Serial No. 635,109, published Mar. 24, 1953.
Balls, Inflated. Wilson Sporting Goods Co. 575,624, June 9; Serial No. 634,130, published Mar. 24, 1953.
Bicycles and tricycles, Children's. D. Sebel and Company Limited. 575,393, June 9; Serial No. 608,680, published Mar. 10, 1953.
Fishing implements. Aktiebolaget Urfabriken. 575,634, June 9; Serial No. 634,513, published Mar. 24, 1953.
Fishing lines and leaders. Sevenstrand Tackle Mfg. Co. 575,622, June 9; Serial No. 634,121, published Mar. 24, 1953.
Fishing lures. P. Bennett. 575,629, June 9; Serial No. 634,294, published Mar. 24, 1953.
Fishing reels, lines, and artificial fishing lures. Shakespeare Company. 575,729, June 9; Serial No. 626,425.
Fishing rods. Shakespeare Company. 575,589, June 9; Serial No. 632,331, published Mar. 17, 1953.
Game apparatus. F. S. O'Hara. 575,731, June 9; Serial No. 627,696.
Game cards and booklets for use in a bingo game. H. B. Ziegler. 575,638, June 9; Serial No. 634,563, published Mar. 24, 1953.
Golf balls. United States Rubber Company. 575,633, June 9; Serial No. 634,388, published Mar. 24, 1953.
Megaphones. F. J. Cassidy. 575,501, June 9; Serial No. 624,331, published Mar. 24, 1953.
Targets, Frangible. Olin Industries, Inc. 575,357, June 9; Serial No. 527,921, published Mar. 17, 1953.
Toy guns and toy figures. Pyro Plastics Corporation. 575,569, June 9; Serial No. 631,122, published Mar. 17, 1953.
Toy stuffed animals, dolls, musical toys, etc. Federated Department Stores, Inc. 575,498, June 9; Serial No. 624,029, published Mar. 24, 1953.
Toys. The Perry Knitting Company. 575,576, June 9; Serial No. 631,761, published Mar. 24, 1953.
Toys. U. S. Specialties Co., Inc. 575,741, June 9; Serial No. 638,885.
Toys, Metal friction, toy wooden pop-guns and pistols, etc. Craig-Stanton & Co., Inc. 575,510, June 9; Serial No. 625,661, published Mar. 24, 1953.

CLASS 23

Accessory devices used with internal combustion engines—namely, air cleaners, etc. General Motors Corporation. 575,451, June 9; Serial No. 620,206, published Feb. 24, 1953.
Apparatus and appliances for vaporizing liquid disinfectants and like substances into the air. S. L. F. Eklund. 575,380, June 9; Serial No. 595,714, published Feb. 24, 1953.
Brakes for hoists and well rigs. The Parkersburg Rig & Reel Company. 303,930, renewed June 13, 1953. O. G. June 9.
Dust separators. Aerodyne Corporation. 575,385, June 9; Serial No. 600,245, published Feb. 24, 1953.
Dusters and sprayers, Hand and power-operated. Naco Manufacturing Co. 575,365, June 9; Serial No. 571,911, published Feb. 24, 1953.
Grinding and polishing machines. Ryman Engineering Company. 575,738, June 9; Serial No. 633,512.
Knives and scrapers, Putty. Hyde Manufacturing Company. 575,371, June 9; Serial No. 581,717, published Mar. 24, 1953.
Lawn mowers. Dille & McGuire Mfg. Co. 575,475–6, June 9; Serial Nos. 622,484–5, published Mar. 24, 1953.
Lawn mowers. Dille & McGuire Mfg. Co. 575,477, June 9; Serial No. 622,489, published Mar. 24, 1953.
Lawnmowers. Monark Silver King, Inc. 575,452–3, June 9; Serial Nos. 620,318–19, published Mar. 24, 1953.
Loom supplies. The Bullard Clark Company. 575,398, June 9; Serial No. 609,535, published Mar. 24, 1953.
Machine for pulping and mixing pulp and other paper stock. Morden Machines Company. 575,736, June 9; Serial No. 630,900.
Machinery bushings, Bronze. Jackson-Wheeler Metals Service, Inc. 575,533, June 9; Serial No. 628,598, published Mar. 24, 1953.
Presses and parts therefor, Hydraulic. The Denison Engineering Company. 575,539, June 9; Serial No. 629,000, published Mar. 24, 1953.
Printing presses. Roto-Screen Company. 575,713, June 9; Serial No. 611,240.
Razors, Safety, and safety razor blades. Gillette Safety Razor Company. 303,303, renewed May 23, 1953. O. G. June 9.
Saws. Henry Disston & Sons, Incorporated. 303,052, May 9, 1933. Republished June 9.
Sewing machines. Remington Sewing Machine Manufacturing Co., Incorporated. 575,720, June 9; Serial No. 618,371.
Spoons and forks. Mettmanner Britanniawarenfabrik W. Seibel. 88,580, re-renewed Oct. 1, 1952. O. G. June 9.
Tools, Rock drilling. Sprague & Henwood, Incorporated. 575,396, June 9; Serial No. 608,681, published Mar. 3, 1953.
Windmills and parts thereof. Fairbanks, Morse & Co. 575,384, June 9; Serial No. 598,789, published Mar. 24, 1953.

CLASS 24

Dry cleaning machine. The American Laundry Machinery Company. 575,732, June 9; Serial No. 627,858.

CLASS 26

Adding machines, calculating machines, bookkeeping machines, etc. B. Kerk. 575,450, June 9; Serial No. 619,883, published Mar. 24, 1953.
Camera attachments and accessories. The Kalart Company Inc. 575,400, June 9; Serial No. 609,863, published Feb. 3, 1953.
Cameras, Photographic. Eastman Kodak Company. 575,639, June 9; Serial No. 634,578, published Mar. 17, 1953.
Cases for spectacles and sunglasses, Leather. P. S. Sockett. 575,709, June 9; Serial No. 599,720.
Electrical signal generators, radio noise meters, field strength meters, etc. Ferris Instrument Company. 575,364, June 9; Serial No. 571,389, published Mar. 17, 1953.
Eye glasses. Mail Pouch Tobacco Co. 575,602, June 9; Serial No. 633,159, published Feb. 24, 1953.
Frames for glasses. Universal Optical Company, Inc. 575,580, June 9; Serial No. 631,953, published Mar. 24, 1953.
Gauges, Automatic. Ateliers de Normandie. 575,389, June 9; Serial No. 604,684, published Feb. 3, 1953.
High-vacuum pumps for scientific and research purposes. W. Edwards & Company, (London) Limited. 575,387, June 9; Serial No. 604,194, published Feb. 3, 1953.

Holder for use in the preparation of specimens for microscopic examination, etc. Callaway Mills Company. 575,495, June 9; Serial No. 623,792, published Feb. 3, 1953.

Laboratory appliances. Standard Scientific Supply Corp. 575,393, June 9; Serial No. 607,147, published Feb. 3, 1953.

Lenses, Ophthalmic. Titmus Optical Company, Inc. 575,439, June 9; Serial No. 617,775, published Mar. 10, 1953.

Motion picture animated cartoons, Series of. Terrytoons, Inc. 575,488, June 9; Serial No. 623,437, published Feb. 3, 1953.

Motion picture film. International Alliance of Theatrical Stage Employes and Moving Picture Machine Operators of the United States and Canada. 575,459, June 9; Serial No. 620,732, published Feb. 3, 1953.

Ophthalmic mountings and parts thereof including goggles and protection-glass lenses. Willson Products, Inc. 575,464, June 9; Serial No. 621,186, published Feb. 3, 1953.

Optical goods. C. T. Takahashi. 575,623, June 9; Serial No. 634,126, published Mar. 3, 1953.

Patterns, Dress. Kiddie Key Co. 575,587, June 9; Serial No. 632,212, published Mar. 24, 1953.

Photographic material. Charles Bruning Company Inc. 575,397, June 9; Serial No. 609,163, published Sept. 25, 1951.

Photoflash battery and bulb tester. Bright Star Battery Company. 575,640, June 9; Serial No. 634,628, published Mar. 17, 1953.

Portable apparatus having a number of longitudinal recesses therein to support coins of pre-determined diameters, etc. Henderize, Inc. 575,715, June 9; Serial No. 613,591.

Projector for projecting images upon a screen. Society For Visual Education, Inc. 575,402, June 9; Serial No. 610,033, published Feb. 3, 1953.

Rules, Wood folding. Master Rule Manufacturing Co., Inc. 575,620, June 9; Serial No. 633,939, published Feb. 24, 1953.

Scales, Micrometric, square meter scales, beam balances, etc. Sartorius-Werke Aktiengesellschaft. 575,710, June 9; Serial No. 602,538.

Scales, Weighing. Hydroway Scales, Inc. 575,706, June 9; Serial No. 590,367.

Speed control instruments. Traffic House, Inc. 575,409, June 9; Serial No. 611,981, published Feb. 3, 1953.

Swimming masks comprising an optical face covering. Healthways. 575,733, June 9; Serial No. 628,001.

Timers, Interval. Chemco Photoproducts Company, Inc. 575,428, June 9; Serial No. 615,367, published Feb. 3, 1953.

Weather direction transmitter, anemometer, wind direction indicators, etc. Julien P. Friez & Sons, Inc. 301,941, renewed Mar. 21, 1953. O. G. June 9.

CLASS 27

Watches, clocks, watch movements, etc. Société Anonyme Mido. 575,641, June 9; Serial No. 634,663, published Mar. 17, 1953.

CLASS 28

Rings, Finger. Schless-Harwood Co., Inc. 575,566, June 9; Serial No. 631,026, published Mar. 24, 1953.

Rings, Ladies' diamond engagement, and ladies' wedding rings. J. M. Levitz. 575,499, June 9; Serial No. 624,039, published Mar. 24, 1953.

Sterling silver and sterling silver mounted flatware and table cutlery. Towle Manufacturing Company. 575,670, June 9; Serial No. 616,317, published Mar. 24, 1953.

Sterling silver flatware. The R. Wallace & Sons Manfg. Co. 575,671, June 9; Serial No. 636,318, published Mar. 17, 1953.

CLASS 29

Sash and trim painting device. McBell Enterprises. 575,413, June 9; Serial No. 612,698, published Mar. 17, 1953.

CLASS 30

Ceramic dinnerware. Santa Anita Potteries. 575,660–1, June 9; Serial Nos. 635,552–3, published Mar. 17, 1953.

Ceramic shapes, Fired. T. R. Palumbo. 575,419, June 9; Serial No. 614,060, published Mar. 17, 1953.

CLASS 31

Cooling towers and parts thereof, Liquid. The Marley Company, Inc. 575,656–7, June 9; Serial Nos. 635,371–2, published Mar. 24, 1953.

Filter plates. The Richardson Company. 575,599, June 9; Serial No. 632,901, published Mar. 10, 1953.

Filtering apparatus. The Duro Co. 575,465, June 9; Serial No. 621,393, published Mar. 10, 1953.

Filters, Air. Research Products Corporation. 575,468, June 9; Serial No. 621,984, published Mar. 10, 1953.

Filters, Electrostatic air. The Goodyear Tire & Rubber Company. 575,544, June 9; Serial No. 620,108, published Mar. 17, 1953.

Refrigerated display cases. Trusty Manufacturers, Inc. 575,394, June 9; Serial No. 607,462, published Mar. 3, 1953.

Refrigerators, Electric. McCall Refrigerator Corporation. 575,627, June 9; Serial No. 634,262, published Mar. 10, 1953.

Refrigerators, Storage and display food, bottle coolers, ice cube makers, etc. Sherer-Gillett Company. 575,593, June 9; Serial No. 632,695, published Jan. 20, 1953.

Strainers, filters and silica gel refrigerant dryers. J. H. White. 575,417, June 9; Serial No. 613,483, published Mar. 24, 1953.

Synthetic resinous ion exchange materials. Chemical Process Company. 575,442, June 9; Serial No. 618,841, published Mar. 3, 1953.

CLASS 34

Torches, torch handles, torch tips, etc. National Cylinder Gas Company. 575,712, June 9; Serial No. 611,140.

CLASS 35

Belting, Leather. Baltimore Belting Company.. 302,351, renewed Apr. 11, 1953. O. G. June 9.

Gaskets and oil seals. Victor Manufacturing & Gasket Co. 575,669, June 9; Serial No. 636,160, published Mar. 17, 1953.

Hose, High pressure. United States Rubber Company. 301,934, Mar. 21, 1933. Republished June 9.

Solid rubber pipe and fittings. American Hard Rubber Company. 575,530, June 9; Serial No. 629,644, published Mar. 24, 1953.

Tires and tubes, Rubber vehicle, hose, and V-belts. The Dayton Rubber Company. 575,424, June 9; Serial No. 614,652, published Mar. 17, 1953.

Tires, Automobile. Sears, Roebuck and Co. 575,891, June 9; Serial No. 630,839, published Mar. 17, 1953.

Tires, Automobile and truck pneumatic. Laher Spring and Tire Corporation. 575,726, June 9; Serial No. 625,016.

CLASS 37

Labels. Outserts; Inc. 301,764, renewed Mar. 14, 1953. O. G. June 9.

Paper tissues. Kaufmann Department Stores, Inc. 352,405, Nov. 30, 1937; republished June 9, 1953.

Paper, Writing and printing, and bristol-board. Geo. W. Wheelwright Paper Company. 89,315, re-renewed Dec. 3, 1952. O. G. June 9.

CLASS 38

Books. Avon Publishing Co., Inc. 575,635, June 9; Serial No. 634,517, published Mar. 24, 1953.

Books. Doubleday & Company, Inc. 575,531, June 9; Serial No. 628,146, published Mar. 17, 1953.

Chart, Color. Setarti A.-G. 575,431, June 9; Serial No. 615,577, published Mar. 24, 1953.

Comic drawings. NEA Service, Inc. 575,647, June 9; Serial No. 635,048, published Mar. 10, 1953.

Feature articles in a periodical. The Reader's Digest Association, Inc. 575,540–1, June 9; Serial Nos. 629,052–3, published Mar. 24, 1953.

Feature articles in a periodical. The Reader's Digest Association, Inc. 575,542, June 9; Serial No. 629,057, published Mar. 24, 1953.

Magazine. American Lumberman, Inc. 575,492–3, June 9; Serial Nos. 623,638–9, published Mar. 10, 1953.

Magazine, Boys' periodical. Wret Publishing Co., Inc. 575,578, June 9; Serial No. 631,770, published Mar. 17, 1953.

Magazine, Monthly, pamphlets, books, etc. R. L. Osgood. 575,521, June 9; Serial No. 626,589, published Mar. 10, 1953.

Periodical. The Clinic and Hospital, Inc. 575,593, June 9; Serial No. 632,603, published Mar. 17, 1953.

Periodical. National Foremen's Institute, Inc. 575,479, June 9; Serial No. 622,672, published Mar. 24, 1953.

Periodicals. National Foremen's Institute, Inc. 575,478, June 9; Serial No. 622,671, published Mar. 10, 1953.

Photographic portraits. Dunbar-Stanley Studios. 575,665, June 9; Serial No. 635,906, published Mar. 24, 1953.

Photographs, Diaphanous. E. S. Sommers. 575,392, June 9; Serial No. 607,050, published Mar. 10, 1953.

Pictorial novelty stamps. Space Stamps Co. 575,621, June 9; Serial No. 634,058, published Mar. 24, 1953.

Printed adhesive markers. Western Lithograph Company. 575,600, June 9; Serial No. 632,908, published Mar. 10, 1953.

Printed song title strips. Hit Parade Program Services, Inc. 575,432, June 9; Serial No. 615,708, published Mar. 17, 1953.

Publication, Monthly. Continental Oil Company. 575,503, June 9; Serial No. 624,733, published Mar. 17, 1953.

Publication, Printed. The Skipper Publishing Company. 575,646, June 9; Serial No. 634,998, published Mar. 10, 1953.

Publications. The Institute of Radio Engineers, Inc. 575,590, June 9; Serial No. 632,478, published Mar. 10, 1953.

Publications. The Institute of Radio Engineers, Inc. 575,591, June 9; Serial No. 632,480, published Mar. 10, 1953.

Publications. Standard Oil Company of California. 575,408, June 9; Serial No. 611,920, published Mar. 10, 1953.

Section of a periodic publication. Supervision Publishing Co. Inc. 575,470, June 9; Serial No. 622,057, published Mar. 10, 1953.

Telephone directories, Classified. The Reuben H. Donnelley Corporation. 575,391, June 9; Serial No. 605,202, published Mar. 24, 1953.

Transparent, self-adhering sheets bearing various indicia, characters and symbols. Bryan-Brandenburg Corporation of California. 575,594, June 9; Serial No. 632,655, published Mar. 10, 1953.

CLASS 39

Anklets, Fabric, aprons, infants' bands, etc. The Emporium Capwell Company. 575,461, June 9; Serial No. 620,959, published Mar. 3, 1953.

Apparel and sportswear, Men's and boys'. The Russell Manufacturing Company. 575,440, June 9; Serial No. 618,102, published Dec. 23, 1952.

Aprons. M. Booth. 575,520, June 9; Serial No. 626,557, published Mar. 10, 1953.

Bathing suits, sun dresses, and shirts, Women's and children's. Kamehameha Garment Co., Ltd. 575,466, June 9; Serial No. 621,468, published Mar. 17, 1953.

Blouses and shirts, Ladies'. W. Netzky. 575,583, June 9; Serial No. 632,041, published Mar. 24, 1953.

Blouses, hats, skirts, etc. Ostel Enterprises, Inc. 575,471, June 9; Serial No. 622,088, published Mar. 10, 1953.

Boots, shoes, and slippers. A. S. Beck Shoe Corporation. 303,684, renewed June 6, 1953. O. G. June 9.

Coats, suits, outer shirts, etc., Men's and boys'. S. J. Lourd. 575,744, June 9; Serial No. 639,061.

Coats, veats, trousers, and knickerbockers. J. Schoeneman, Inc. 575,611, June 9; Serial No. 633,468, published Mar. 17, 1953.

Collar, Sun reflecting. S. Friedberg. 575,543, June 9; Serial No. 629,105, published Mar. 10, 1953.

Diapers and diaper panties. M. S. Burns. 575,607, June 9; Serial No. 633,347, published Mar. 3, 1953.

Dresses, Ladies' and misses'. Flisy Frocks. 575,582, June 9; Serial No. 632,024, published Mar. 24, 1953.

Dresses, slacks, cardigans, and jackets, etc., Women's sport. Tinling, Inc. 575,455, June 9; Serial No. 620,446, published Mar. 10, 1953.

Dresses, Women's and misses'. Bloomingdale Bros. Inc. 301,565, renewed Mar. 7, 1953. O. G. June 9.

Handkerchiefs. L. B. Gédance. 575,650, June 9; Serial No. 635,130, published Mar. 24, 1953.

Hats. Goldstein Millinery Company. 575,421, June 9; Serial No. 614,549, published Mar. 17, 1953.

Hats. Goldstein Millinery Company. 575,422, June 9; Serial No. 614,551, published Mar. 17, 1953.

Hats. Hat Corporation of America. 305,702, renewed Aug. 22, 1953. O. G. June 9.

Hats. Hat Corporation of America. 305,708, renewed Aug. 22, 1953. O. G. June 9.

Hats, Ladies', misses' and children's. Goldstein Millinery Company. 575,427, June 9; Serial No. 616,113, published Mar. 17, 1953.

Head coverings. D. I. Corbey. 575,610, June 9; Serial No. 633,449, published Mar. 24, 1953.

Hosiery. Julius Kayser & Co. 575,563, June 9; Serial No. 630,538, published Mar. 3, 1953.

Hosiery, Men's. H. Rosenwasser. 575,474, June 9; Serial No. 622,356, published Mar. 3, 1953.

Materials cut out and prepared ready for sewing into dresses. Stylecraft Frocks, Inc. 575,512, June 9; Serial No. 625,829, published Mar. 24, 1953.

Outerwear, Ladies' and misses'. Samuel Parnes & Sons, Inc. 575,568, June 9; Serial No. 631,121, published Mar. 24, 1953.

Playsuits. Herman Iskin & Co. Inc. 575,548, June 9; Serial No. 629,300, published Mar. 10, 1953.

Shirts and pants, Men's and boys' outer. W. Koury Company. 575,511, June 9; Serial No. 625,676, published Mar. 17, 1953.

Shirts, Negligee, sport shirts, jackets, etc. The Shirtcraft Company, Inc. 575,377, June 9; Serial No. 591,518, published Mar. 10, 1953.

Sportshirts, Men's. Damon Creations, Inc. 575,608, June 9; Serial No. 633,352, published Mar. 17, 1953.

Suits, overcoats, tuxedoes, etc., Men's and young men's. Chester Barrie, Ltd. 575,414, June 9; Serial No. 612,783, published Mar. 17, 1953.

Trousers, pants, and sport coats, dungarees, etc., Men's. Louis Lesnick and Son. 575,458, June 9; Serial No. 620,609, published Mar. 10, 1953.

Trousers, suits, overcoats, etc., Men's. The Middishade Company, Inc. 575,437, June 9; Serial No. 617,453, published Mar. 10, 1953.

Undervests, Women's. E. Emmers & Co. 92,660, renewed July 22, 1953. O. G. June 9.

CLASS 42

Cloth, Silk bolting. Etablissements Tripette & Renaud Fils, Societe a Responsabilite Limitee. 575,383, June 9; Serial No. 597,822, published Mar. 10, 1953.

Fabric, Cotton textile. Wm. Simpson Sons & Co., Inc. 575,553, June 9; Serial No. 629,918, published Mar. 24, 1953.

Fabric, Linen-weave all-rayon textile. Reliable Textile Company, Inc. 575,674, June 9; Serial No. 636,806, published Mar. 10, 1953.

Fabrics, Pacific Mills. 575,677, June 9; Serial No. 636,996, published Mar. 10, 1953.

Fabrics, William Skinner & Sons. 575,675–6, June 9; Serial Nos. 636,813–14, published Mar. 17, 1953.

Fabrics, Cotton upholstery. Glen Raven Cotton Mills, Inc. 575,601, June 9; Serial No. 632,932, published Mar. 24, 1953.

Fabrics, Ecclesiastical textile. Kao Novelty Co. 575,530, June 9; Serial No. 627,946, published Mar. 24, 1953.

Fabrics, Elastic. United Elastic Corporation. 575,467, June 9; Serial No. 621,604, published Mar. 17, 1953.

Fabrics, Insulated lining. Temp Resisto Corporation. 575,508, June 9; Serial No. 625,550, published Mar. 10, 1953.

Fabrics-in-the-piece. Grandma Moses Properties, Inc. 575,598, June 9; Serial No. 632,837, published Mar. 24, 1953.

Fabrics, Knitted and woven. Continental Mills, Inc. 575,564, June 9; Serial No. 630,654, published Mar. 10, 1953.

Fabrics, Pile. Collins & Aikman Corporation. 305,632, renewed Aug. 22, 1953. O. G. June 9.

Fabrics, Quilted. New Jersey Quilting Co., Inc. 575,631, June 9; Serial No. 634,336, published Mar. 24, 1953.

Fabrics, Textile. The Cat Cay Realty Company, Limited. 575,456, June 9; Serial No. 620,493, published Dec. 30, 1952.

Fabrics, Textile. Ducharne Inc. 575,416, June 9; Serial No. 613,217, published Mar. 24, 1953.

Fabrics, Textile. Frankly Fabrics Corp. 575,420, June 9; Serial No. 614,295, published July 15, 1952.

Fabrics, Textile. D. B. Fuller & Co., Inc. 575,404, June 9; Serial No. 610,552, published Sept. 4, 1951.

Fabrics, Textile. D. B. Fuller & Co., Inc. 575,682, June 9; Serial No. 637,769, published Mar. 24, 1953.

Fabrics, Wool. Ehinger Mills, Inc. 575,678, June 9; Serial No. 637,175, published Mar. 10, 1953.

Fabrics, Woolen. Lambeth Woolens, Inc. 575,651, June 9; Serial No. 635,186, published Mar. 24, 1953.

Interlining material, Coat front. The Kendall Company. 575,680, June 9; Serial No. 637,280, published Mar. 10, 1953.

Piece goods. Guilford Woolen Mills Co. 575,683, June 9; Serial No. 637,821, published Mar. 24, 1953.

Piece goods. United Merchants and Manufacturers, Inc. 575,648, June 9; Serial No. 635,105, published Mar. 24, 1953.

Piece goods. United Merchants and Manufacturers, Inc. 575,652, June 9; Serial No. 635,203, published Mar. 24, 1953.

Piece goods, Cotton. Meb Export Co. Inc. 575,487, June 9; Serial No. 623,254, published Mar. 10, 1953.

Piece goods, Woolen. Forstmann Woolen Co. 575,552, June 9; Serial No. 629,787, published Sept. 30, 1952.

Piece goods, Woven fabric. Fabrex Corp. 575,606, June 9; Serial No. 633,304, published Mar. 24, 1953.

Pillow covers and pillow cases. O. Griffith. 575,684, June 9; Serial No. 638,079, published Mar. 24, 1953.

Rugs and carpets, Textile. Waite Carpet Co. 575,673, June 9; Serial No. 636,618, published Mar. 10, 1953.

Rugs, Cotton tufted scatter. Callaway Mills Company. 575,557, June 9; Serial No. 630,116, published Mar. 10, 1953.

Sheets and pillowcases. Carol Textile Co. Inc. 575,525, June 9; Serial No. 627,322, published Mar. 24, 1953.

Sheets and pillow cases. The Springs Cotton Mills. 575,681, June 9; Serial No. 637,618, published Mar. 24, 1953.

Textile ribbons. Willard & Giles Inc. 575,618, June 9; Serial No. 633,811, published Mar. 24, 1953.

CLASS 43

Yarn, Synthetic. Eastman Kodak Company. 575,636, June 9; Serial No. 634,526, published Mar. 10, 1953.

CLASS 44

Collapsible plastic tube adapted for use with a hypodermic needle. Abbott Laboratories. 575,556, June 9; Serial No. 630,107, published Mar. 10, 1953.

Dental metals. Earnest Dental Laboratory. 575,538, June 9; Serial No. 628,811, published Mar. 10, 1953.

Dental wire. Coe Laboratories, Inc. 303,672, renewed June 6, 1953. O. G. June 9.

Denture repair material. Reliance Dental Mfg. Co. 575,626, June 9; Serial No. 634,215, published Mar. 17, 1953.

Hearing aids and parts thereof, Electrical. Zenith Radio Corporation. 575,632, June 9; Serial No. 634,359, published Mar. 22, 1953.

Manicuring sets. J. S. Sherman. 575,560, June 9; Serial No. 630,218, published Mar. 10, 1953.

Respirators and parts thereof. Willson Products, Inc. 575,605, June 9; Serial No. 633,282, published Mar. 22, 1953.

Self-oilers designed to keep the coats of livestock from becoming dry and getting sores. G. R. Rasmussen. 575,473, June 9; Serial No. 622,354, published Mar. 24, 1953.

Sterilisers for syringes or the like. Midland Equipment Company. 575,630, June 9; Serial No. 634,332, published Mar. 22, 1953.

Surgical adhesive tape. Johnson & Johnson. 575,500, June 9; Serial No. 624,088, published Mar. 10, 1953.

CLASS 46

Applebutter and honey. Thun Investment Company. 575,423, June 9; Serial No. 614,585, published Mar. 24, 1953.

Apples, Dehydrated. Ross Packing Co. 575,711, June 9; Serial No. 610,099.

Baked goods. Stone Mill Products Co. 575,524, June 9; Serial No. 627,471, published Mar. 17, 1953.
Bread. Lewis Bros. Bakeries, Inc. 575,545, June 9; Serial No. 629,114, published Mar. 10, 1953.
Cakes, pies, bread, rolls, tarts, etc. S. C. Jones. 575,573, June 9; Serial No. 631,427, published Mar. 10, 1953.
Candy. Leaf Brands, Inc. 575,551, June 9; Serial No. 629,740, published Mar. 10, 1953.
Candy and glacé fruits. H. Bernstein. 575,725, June 9; Serial No. 622,195.
Candy bars, Chocolate-peanut. Brecht Candy Company. 575,728, June 9; Serial No. 625,454.
Candy, ice cream, noodles, etc. F. Sanders. 304,007, June 13, 1933. Republished June 9.
Canned apricots and peaches. Flotill Products, Incorporated. 575,672, June 9; Serial No. 636,472, published Mar. 17, 1953.
Canned pork sausage, canned bulk pork sausage, ham, etc. The Smithfield Packing Company, Incorporated. 575,519, June 9; Serial No. 626,475, published Mar. 17, 1953.
Canned vegetables, vinegar, peperoncini, etc. P. Glambanco. 575,462, June 9; Serial No. 621,010, published Feb. 17, 1953.
Cereal food. Roman Meal Company. 575,522, June 9; Serial No. 627,087, published Mar. 17, 1953.
Cheese. New Yorker Cheese Company. 575,513, June 9; Serial No. 626,104, published Mar. 10, 1953.
Cheese. New Yorker Cheese Company. 575,514, June 9; Serial No. 626,105, published Mar. 17, 1953.
Cheese and fresh milk. F. Wyttenbach. 575,708, June 9; Serial No. 596,143.
Cheese, butter, ice cream, fresh buttermilk, etc. O. H. Stover. 575,659, June 9; Serial No. 635,442, published Mar. 24, 1953.
Chocolate fudge icing. Henry and Henry, Inc. 575,716, June 9; Serial No. 614,773.
Coffee, tea, flavoring extracts, etc. James H. Forbes Tea and Coffee Company. 575,358–9, June 9; Serial Nos. 541,123–4, published Mar. 17, 1953.
Feeds. Archer-Daniels-Midland Company. 575,489, June 9; Serial No. 623,530, published Mar. 10, 1953.
Fish, Fresh and frozen. O'Donnell-Usen Fisheries Corporation. 575,547, June 9; Serial No. 629,250, published Mar. 24, 1953.
Foods, Prepared. Juillard Fancy Foods Co. 575,717, June 9; Serial No. 615,646.
Fruit preserves, fruit jelly, and fruit butters. Lutz & Schramm, Inc. 575,494, June 9; Serial No. 623,661, published Mar. 10, 1953.
Ice cream. Alpine Ice Cream Co. Inc. 302,742, Apr. 25, 1933. Republished June 9.
Ice cream. Eskimo Pie Corporation. 575,482, June 9; Serial No. 622,816, published Mar. 10, 1953.
Meats, Frozen. R. S. Wolf. 575,426, June 9; Serial No. 614,876, published Mar. 10, 1953.
Olive oil. R. Hermanos. 295,415, renewed June 28, 1952. O. G. June 9.
Pickles and canned sauerkraut. Bond Pickle Company. 575,585, June 9; Serial No. 632,148, published Mar. 17, 1953.
Potatoes. Little Kanawha Regional Council, Inc. 575,703, June 9; Serial No. 626,091, published Mar. 17, 1953.
Products of alimentary paste, Prepared, cooked, and canned. The American Beauty Macaroni Co. 575,642, June 9; Serial No. 634,724, published Mar. 24, 1953.
Raisins. Fresno Co-Operative Raisin Growers, Inc. 575,526, June 9; Serial No. 627,680, published Mar. 17, 1953.
Salt, Vitaminized. Labmasters Incorporated. 575,373, June 9; Serial No. 584,406, published Mar. 10, 1953.
Sauce, Barbeque. Meat Industry Suppliers, Inc. 575,660, June 9; Serial No. 635,926, published Mar. 10, 1953.
Sauce, Hot. T. W. Garner Food Co. 575,486, June 9; Serial No. 623,247, published Mar. 10, 1953.
Shortening, Vegetable oil. Anderson, Clayton & Co. 575,572, June 9; Serial No. 631,335, published Mar. 17, 1953.
Soup mixes, Dehydrated chicken noodle. Continental Foods, Inc. 575,361, June 9; Serial No. 561,362, published Mar. 15, 1949.
Tomatoes, Fresh. Toledo Hot House Cooperative Association. 575,399, June 9; Serial No. 609,574, published Mar. 10, 1953.
Vegetables, Fresh, fresh berries, and fresh fruits. Crown Produce Co. 575,561, June 9; Serial No. 630,314, published Mar. 10, 1953.
Wheat-flour. Willis Norton & Co. 91,367, re-renewed Apr. 29, 1953. O. G. June 9.

CLASS 47

Wine. Michigan Wineries, Inc. 404,512, Nov. 30, 1943. Republished June 9.
Wine, Port. Bloch Bros. 301,289, renewed Feb. 21, 1953. O. G. June 9.
Wine, Sherry. Geo. G. Sandeman Sons & Co. Limited. 91,703, re-renewed May 20, 1953. O. G. June 9.

CLASS 48

Ale, Pale, and beer. Bass, Ratcliff & Gretton, Limited. 138,572, Jan. 4, 1921. Republished June 9.

CLASS 50

Nylon coated material used as tarpaulins and protective coverings. Vulcan Rubber Products, Inc. 575,735, June 9; Serial No. 629,640.
Rubber flooring. United States Rubber Company. 300,949, Feb. 14, 1933. Republished June 9.
Sheet material, Composition. Bolta Rubber Co., Inc. 301,800, renewed Mar. 14, 1953. O. G. June 9.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. Deutsche Gold- und Silber Scheideanstalt. 300,894, renewed Feb. 14, 1953. O. G. June 9.
Face creams. Bonne Bell, Inc. 444,774, June 9; Serial No. 472,499, published Feb. 15, 1949.
Perfume. Caron Corporation. 575,730–40, June 9; Serial Nos. 638,832–3.
Perfume. Caron Corporation. 575,742–3, June 9; Serial Nos. 638,897–8.
Perfume. Caron Corporation. 575,745–6, June 9; Serial Nos. 639,105–6.
Perfume. Caron Corporation. 575,747–8, June 9; Serial Nos. 639,207–8.
Perfume. Caron Corporation. 575,749, June 9; Serial No. 641,014.

CLASS 52

Cleaner, All purpose. Apothecaries Hall Company. 575,532, June 9; Serial No. 628,388, published Mar. 17, 1953.
Cleansing compound. Takamine Laboratory, Inc. 303,923, renewed June 13, 1953. O. G. June 9.
Compound for stopping boiler leaks, a compound for cleaning waste matter from pipes, etc. F. J. Bentz. 299,649, renewed Dec. 13, 1952. O. G. June 9.
Shampoo. John H. Breck Inc. 575,376, June 9; Serial No. 589,067, published Mar. 17, 1953.
Shampoo cream, soapless lathering. C. Goldstein. 575,707, June 9; Serial No. 595,834.
Soap. Physicians and Hospitals Supply Company, Inc. 575,449, June 9; Serial No. 619,713, published Mar. 17, 1953.
Soaps, Hand and bath, laundry soaps, soap flakes and powders, etc. Federated Department Stores, Inc. 575,506, June 9; Serial No. 624,880, published Mar. 17, 1953.
Soaps, Liquid filter. E. F. Houghton & Co. 301,389, Feb. 28, 1933. Republished June 9.
Washing compound, Laundry. C. E. Abramowitz. 575,719, June 9; Serial No. 617,179.

CLASS 100

Acting as an agency for nationally-known periodical magazine publications, etc. McGregor Magazine Agency, Inc. 575,700, June 9; Serial No. 627,895, published Mar. 17, 1953.
Leasing machines and equipment. Food Machinery and Chemical Corporation. 575,694, June 9; Serial No. 588,569, published Mar. 17, 1953.

CLASS 101

Photographically grouping and shaping letters for advertising layouts on a job basis. Sass-Wilson Studio. 575,695, June 9; Serial No. 591,701, published Mar. 24, 1953.

CLASS 102

Underwriting of insurance. Anchor Casualty Company. 575,693, June 9; Serial No. 584,378, published Mar. 17, 1953.

CLASS 103

Construction of new buildings, and repairing and renovating damaged or partially destroyed buildings. T. F. Merrill. 575,699, June 9; Serial No. 626,398, published Mar. 24, 1953.

CLASS 105

Assisting motorists and owners of motor vehicles in obtaining emergency automobile repair and towing service. Automobile Association of New Jersey. 575,696, June 9; Serial No. 602,669, published Mar. 24, 1953.
Transportation of passengers by aircraft. Pan American World Airways, Inc. 575,702, June 9; Serial No. 634,858, published Mar. 17, 1953.

CLASS 106

Glazing furs. Chelsea Process, Inc. 575,750, June 9; Serial No. 612,443.

CLASS 107

Entertainment service. L. Bliss. 575,698, June 9; Serial No. 617,860, published Mar. 17, 1953.
Entertainment services. M. Gardner and J. S. Smith. 575,697, June 9; Serial No. 607,949, published Mar. 24, 1953.
Entertainment services. Rootie Kazootie, Inc. 575,701, June 9; Serial No. 628,651, published Mar. 24, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Baretta, Emilio: *See*—
Legat, Robert C., and Baretta.
I-T-E Circuit Breaker Company, assignee: *See*—
Thumim, Carl.
Legat, Robert C., New Britain, and E. Baretta, assignors to The G. E. Prentice Mfg. Co., Kensington, Conn. Key support. Re. 23,666, June 9.
Prentice, G. E., Mfg. Co., The, assignee. *See*—
Legat, Robert C., and Baretta.
Thumim, Carl, Yeadon, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Resonant silencer. Re. 23,667, June 9.

LIST OF PLANT PATENTEES

Conard-Pyle Company, The, assignee: *See*—
Meilland, Francis.
Meilland, Francis, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 1,192, June 9.
Meilland, Francis, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 1,193, June 9.

LIST OF DESIGN PATENTEES

Amwell Full Fashioned Hosiery Company, Inc., assignee: *See*—
Rickert, Melvin A.
Anthony, Allan, Maywood, Ill. Lamp fixture. 169,798, June 9.
Boucher, Marcel, et Cie., assignee: *See*—
Semensohn, Raymonde.
Bourne-Vanneck, Vincent P., New York, N. Y. Flame pad or similar article. 169,799, June 9.
Burgess, Charles R., Detroit, Mich. Portable hot-air heater. 169,800, June 9.
Capodanno, Anthony V., North Attleboro, Mass. Cribbage board or similar article. 169,801, June 9.
Carver, Fern, Chicago, Ill. Cane-doll. 169,802, June 9.
Collins, Walter H., Summit, N. J. Spool box. 169,803, June 9.
Coro, Inc., assignee: *See*—
Katz, Adolph.
De Stefano, Marindo, Brooklyn, N. Y. Pendant. 169,804, June 9.
Eck, Elmer, Peru, Ind. Upholstered sofa. 169,805, June 9.
Garreau, Armand J., Newport, R. I. Bracelet display stand. 169,806, June 9.
Gero, Adelard J., Jr., Taftville, Conn. Combination automobile-airplane. 169,807, June 9.
Goldman, Harold, Bronx, N. Y. Comb. 169,808, June 9.
Hafner Associates, Inc., assignee: *See*—
Petracek, Vaclav.
Hagen, John H., Canton, Ohio. Combined lamppost and mailbox support. 169,809, June 9.
Hamilton, Bertis F., Columbus, Ind. Chair. 169,810, June 9.
Heinley, Paul P., Malibu, Calif. Louver board. 169,811, June 9.
Heilman, Paul, New York, N. Y. Combined lunch box and vacuum bottle unit. 169,812, June 9.
Jaxton Manufacturing Corporation, assignee: *See*—
Klein, Milton F.
Jorgensen, Robert A., Edmonds, Wash. Hinge. 169,813, June 9.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,814, June 9.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 169,815, June 9.
Kirkman, Fred, Solana Beach, Calif. Fishing lure. 169,816, June 9.
Klein, Milton F., assignor to Jaxton Manufacturing Corporation, Glens Falls, N. Y. Serving tray. 169,817, June 9.
Krikorian, Albert P., Agawam, Mass. Adjustable chaise. 169,818, June 9.
Kupferer, Earl R., St. Louis, Mo. Table. 169,819, June 9.
Lahr, Peter W.: *See*—
Seyfried, Arthur W., and Lahr.
Patt Manufacturing Co., assignee: *See*—
Pattis, David.
Pattis, David, assignor to Patt Manufacturing Co., Chicago, Ill. Headlamp visor. 169,820, June 9.
Petracek, Vaclav, Elmhurst, assignor to Hafner Associates, Inc., New York, N. Y. Woven plastic fabric. 169,821, June 9.
Rickert, Melvin A., assignor to Amwell Full Fashioned Hosiery Company, Inc., Lambertville, N. J. Lady's stocking. 169,822, June 9.
Ronne, Finn, Glen Echo, Md. Ski pole ring. 169,823, June 9.
St. Clair, Judy A., Fort Worth, Tex. Combined salad fork and knife. 169,830, June 9.
Sandwick, Luther M., New York, N. Y., assignor to Wilcox-Gay Corporation, Charlotte, Mich. Audio visual unit. 169,824, June 9.
Schildkraut, Eugene, Great Neck, N. Y. Combined money clip and stamp holder. 169,825, June 9.
Schmidt, George A., Southfield Township, Oakland County, Mich. Artificial fish bait. 169,826, June 9.
Schoenfeld, Joseph, San Diego, Calif. Carving aid fork. 169,827, June 9.
Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Necklace or similar article. 169,828, June 9.
Seyfried, Arthur W., and P. W. Lahr, Racine, Wis. Drink mixer. 169,829, June 9.
Talon, Inc., assignee: *See*—
Tuteur, Marianne.
Tuteur, Marianne, New York, N. Y., assignor to Talon, Inc. Hat. 169,831, June 9.
Waldrop, Jefferson P., Jackson, Miss. Bookholder or similar article. 169,832, June 9.
Wilcox-Gay Corporation, assignee: *See*—
Sandwick, Luther M.
Young, Phyllis L.: *See*—
Young, William E. and P. L.
Young, William E. and P. L., Portland, Oreg. Combined mantel ornament and flower holder. 169,833, June 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories, assignee: *See*—
Leonalties, Leonard L.
Schock, Richard U., Jr., and Tabern.

Abbott, Matthew C.: *See*—
Rumsey, Howard L., and Abbott.

Abrams, Jess: *See*—
Bloom, Israel, and Abrams.

Adams, Cecil E., assignor to The Denison Engineering Company, Columbus, Ohio. Control valve mechanism for hydraulic motors. 2,641,228, June 9.

Adams, Max M., Bartlesville, Okla., assignor to Phillips Petroleum Company. Detonation meter pickup. 2,641,719, June 9.

Adams, Mosel A., Rayne, assignor of one-third to C. J. Fontenot, Welsh, one-third to A. B. Richard, Evangeline, and one-third to L. W. Fontenot, Welsh, La. Stripper pump. 2,641,187, June 9.

Adams, Paul R., Cranford, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio echo pulse system for vehicles following a fixed route. 2,641,688, June 9.

Adlake Company, The, assignee: *See*—
Ehret, Yale W.

Advance Transformer Co., assignee: *See*—
Dahl, Robert E.

Aerojet-General Corporation, assignee: *See*—
Wolfe, Charles M., and Miller.

Aeroquip Corporation, assignee: *See*—
La Marre, Roger R.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Teeter, Howard M., and Cowan.

Air Controls, Inc., assignee: *See*—
Schwarz, Gerald L.

Air-O Fan Products Corporation, assignee: *See*—
Robinson, Mayes R.
Wright, David P., and Fish.

Air Reduction Company, Incorporated, assignee: *See*—
Hughey, Howard G.

Airex Manufacturing Co., Inc., assignee: *See*—
Cowen, Lawrence, and Solovioff.

Akely, William S., assignor to The Guardian Export Packers Corporation, Oak Park, Ill. Fluorescent lighting fixture having air-cooled lamp and ballast chamber. 2,641,687, June 9.

Albisetti, Charles J., Jr., and N. G. Fisher, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing unsaturated nitriles. 2,641,607, June 9.

Alderson, Samuel W., New York, N. Y. Switch for operating artificial limbs. 2,640,994, June 9.

Allegheny Ludlum Steel Corporation, assignee: *See*—
Mobling, Gunther, and Dyrkacz.

Allen, Thomas F., Washington, D. C. Dishwasher. 2,641,270, June 9.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Harrer, Paul H.
Sikorra, Daniel J.

Ambler, Geoffrey H., Ben Rhydding, Ilkley, assignor to Ambler Superdraft Limited, Ilkley, England. Drafting of textile fibers. 2,641,026, June 9.

Ambler Superdraft Limited, assignee: *See*—
Ambler, Geoffrey H.

American Can Company, assignee: *See*—
Maher, William W.

American Car and Foundry Company, assignee: *See*—
Gassner, Alfred A.
Sampson, Robert W., and Montgomery.

American Phenolic Corporation, assignee: *See*—
Valach, Charles F.

American Telephone and Telegraph Company, assignee: *See*—
Beyland, Sidney W.

American Viscose Corporation, assignee: *See*—
Chaney, David W., and Sommar.
Hall, Kendall L.

Anthracite Equipment Corporation, assignee: *See*—
Mulcey, Paul A., Eckerd, and Small.

Antony, John C., Pittsburgh, Pa. Building construction. 2,641,449, June 9.

Apotheßos, Robert, Zurich, assignor to Machine Tool Works Oerlikon Administration Company, Zurich-Oerlikon, Switzerland. Fuse. 2,641,186, June 9.

Argus Chemical Laboratory, Inc., assignee: *See*—
Leistner, William E., and Hecker.
Leistner, William E., and Knoepke.

Armstrong, Gordon, assignor to The Gordon Armstrong Company, Inc., Cleveland, Ohio. Portable baby incubator. 2,641,248, June 9.

Armstrong, Gordon, Company, Inc., The, assignee: *See*—
Armstrong, Gordon.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Ehlers, Russell W.

Arnold, Harry M., Denver, Colo. Outside valve drive for piston valve and sleeve valve steam engines. 2,641,230, June 9.

Arnold, Harry M., Golden, Colo. Delayed opening poppet valve for steam engines. 2,641,438, June 9.

Arthur, Evan M., Birmingham, England. Appliance for fitting valve spring collets. 2,641,148, June 9.

Arthurs, Stanley, Solon, assignor to The Standard Oil Company, Cleveland, Ohio. Process and apparatus for decolorising oil. 2,641,574, June 9.

Artzt, Maurice, Princeton, N. J., assignor to Radio Corporation of America. Phase shifting or delay network. 2,641,645, June 9.

Arundale, Erving: *See*—
Ricards, Harold A., Jr., Vanderbilt, and Arundale.

Askania Regulator Company, assignee: *See*—
Jacques, Stanley A.

Atwell, Eugene S.: *See*—
Foote, Donald S., and Atwell.

Audoynaud, Max L., Oullin, France, assignor to Mathieson Chemical Corporation, New York, N. Y. Manufacture of chlorine dioxide of low chlorine content. 2,641,528, June 9.

Ault, Harley A., Daytona Beach, Fla., assignor of one-half to L. B. Campbell, San Francisco, Calif. Page end signaling device for typewriters. 2,641,350, June 9.

Aumick, K. Donald, Pine City, and J. W. Dickey, Newfield, N. Y., assignors to Bendix Aviation Corporation. Reciprocating electromagnetic pump. 2,641,188, June 9.

Aust, Robert J.: *See*—
Puerner, George O., Aust, and Tulauskas.

Austin, Leslie W., San Jose, assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Production of magnesia. 2,641,529, June 9.

Austin, Leslie W., San Jose, Calif., assignor to Kaiser Aluminum & Chemical Corporation. Production of magnesia. 2,641,530, June 9.

Austin, Leslie W., San Jose, and C. A. Rick, Menlo Park, Calif., assignors to Kaiser Aluminum & Chemical Corporation. Preparation of periclase. 2,641,531, June 9.

Automatic Electric Laboratories, Inc., assignee: *See*—
Bartelink, Everhard H. B.
Graybill, Kenneth W., and Sengebusch.
Pye, Harold C.

Babcock & Wilcox Company, The, assignee: *See*—
Harter, Isaac, Jr.

Bagdon, Richard, New York, N. Y. Bead threading machine. 2,641,389, June 9.

Bailey Dye Works, assignee: *See*—
Bailey, Sidney, Jr.

Bailey, Sidney, Jr., assignor to Bailey Dye Works, Philadelphia, Pa. Apparatus for finishing hosiery. 2,641,120, June 9.

Bakane, Anthony, Birmingham, Ala. Combined roller and ball bearing. 2,641,516, June 9.

Baker-Raulang Company, The, assignee: *See*—
Chanda, Clarence W.

Baldwin, Lee E., Glendale, assignor to Weston Hydraulics, Limited, North Hollywood, Calif. Control valve for hydraulic actuating cylinders. 2,641,279, June 9.

Balleisen, Charles E., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of War. Gun barrel cooling means. 2,641,162, June 9.

Ballou, Byron O.: *See*—
Preist, Donald H., and Ballou.

Balmer, Donald F., East River, assignor to The Soundscriber Corporation, New Haven, Conn. Acoustic ear pendant. 2,641,327, June 9.

Bancroft, Charles, New Canaan, Conn. Banking automotive vehicle. 2,641,480, June 9.

Bankauf, William F., East Paterson, W. E. Herrmann, Maywood, and H. M. Ross, Wortendyke, N. J., assignors to Hewett-Robins Incorporated, Buffalo, N. Y. Idler bearing seal. 2,641,515, June 9.

Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Clutch construction. 2,641,344, June 9.

Barbaro, Joseph, Boston, Mass. Relining brakes. 2,641,379, June 9.

Barber, Harry J., assignor to May & Baker Limited, Dagenham, England. Quaternary ammonium salts. 2,641,610, June 9.

Barkalow, Clare E., Huntington, N. Y., assignor to The Sperry Corporation. Gyroscopic rotor frame. 2,641,132, June 9.

Barkalow, Clare E., Huntington, and T. A. Early, Jr., Sea Cliff, N. Y., assignors to The Sperry Corporation. Caging device for attitude gyroscopes. 2,641,133, June 9.

Barker, John L., Norwalk, assignor to Eastern Industries, Incorporated, East Norwalk, Conn. Frequency responsive apparatus. 2,641,707, June 9.

Barney, Arthur L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Vinylidene bis(hydrocarbon sulfones) and their polymers. 2,641,594, June 9.

Barrett, Walter A., Fort Wayne, Ind. Bottle capping machine. 2,641,398, June 9.

Bartelink, Everhard H. B., Bronxville, N. Y., assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Short-wave directional radio communication system. 2,641,735, June 9.

Bartow Laboratories, Inc., assignee: *See*—
Batrow, John.

Bassett, Francis P.: *See*—
Harriman, Thomas J., and Bassett.

Bassick Company, The, assignee: *See*—
Claud-Mantle, Arthur.
Kramcsak, Michael, Jr.

Basso, Michael J., assignee: *See*—
Liley, John W.

Batrow, John, assignor to Bartow Laboratories, Inc., Branford, Conn. Electrophysiotherapy apparatus. 2,641,259, June 9.

Bauer, Benjamin B., Oak Park, assignor to Shure Brothers, Incorporated, Chicago, Ill. Phonograph stylus. 2,641,475, June 9.

Bearer, Louis C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacturing mullite-containing refractories. 2,641,044, June 9.

Beaudry, John R., Minneapolis, Minn. Mechanical bearing aid. 2,641,328, June 9.

Beckman, John C., and E. M. Whitley, San Mateo, assignors to Beckman & Whitley, Inc., San Carlos, Calif. Photographic time recording. 2,641,523, June 9.

Beckman & Whitley, Inc., assignee: *See*—
Beckman, John C., and Whitley.

Beesch, Samuel C., assignor to Publicker Industries Inc., Philadelphia, Pa. Preparing fungal amylase from butanol-acetone fermentation stillage. 2,641,568, June 9.

Behrend, William L., Princeton, N. J., assignor to Radio Corporation of America. Color television camera. 2,641,642, June 9.

Beisner, Lowell E., Elmwood Park, Ill. Speed reducer device. 2,641,139, June 9.

Belcher, Harold H., Orange, Mass., assignor to Rodney Hunt Machine Company. Apparatus for dyeing. 2,641,121, June 9.

Bell Aircraft Corporation, assignee: *See*—
Harriman, Thomas J., and Bassett.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Cisne, Luther E.
Hoth, Daniel F., and Soffel.
Hussey, Luther W.
Kircher, Reymond J.
Lewis, Benjamin F.
Lovell, Clarence A.
Rulison, Raymond L., and Teal.
Shepherd, William G.
Shive, John N.
Thompson, Richard K., Jr.

Bell, Thomas A., Petersham, near Sydney, assignor of one-half to E. S. Sutton, Gordon, near Sydney, New South Wales, Australia. Zeroising mechanism for computer machines. 2,641,411, June 9.

Bellows Company, The, assignee: *See*—
Bellows, Lewis F. R.

Bellows, Lewis F. R., Detroit, Mich., assignor to The Bellows Company, Akron, Ohio. Fluid-powered engine. 2,641,229, June 9.

Bendix Aviation Corporation, assignee: *See*—
Aumick, K. Donald, and Dickey.
Deschamps, Desire J.
Johnson, Thomas W.

Benezet, Theresa M. and W. L., New York, N. Y. Pastry lifter and setter. 2,641,496, June 9.

Benezet, Wilbert L.: *See*—
Benezet, Theresa M. and W. L.

Bennett, James H., Jr., Towson, assignor to The Glenn L. Martin Company, Middle River, Md. Control wheel and wiring. 2,641,629, June 9.

Bennett, Robert N., McComb, Ohio. Endless conveyer ditching machine. 2,641,070, June 9.

Bennett, Robert N., McComb, Ohio, assignor, by mesne assignments, to Gar Wood Industries, Inc. Steering and braking mechanism for trenchers. 2,641,343, June 9.

Benning, Anthony F., Woodstown, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Azeotropic refrigerant composition of monochlorodifluoromethane and chloropentafluoroethane. 2,641,379, June 9.

Benson, Archie M., North Hollywood, Calif. Telephone lock. 2,641,659, June 9.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Gas-solid separator. 2,641,335, June 9.

Bernier, Hector F., Jr.: *See*—
Mason, Russell I., Ripken, and Bernier.

Bertrand, Joseph V., Brooklyn, assignor to Hydropress, Incorporated, New York, N. Y. Sealing means for pressure vessels. 2,641,381, June 9.

Beryllium Corporation, The, assignee: *See*—
Kawecki, Henry C.

Betts, Mazeppa D.: *See*—
Quinn, Gerald S., and Betts.

Beyland, Sidney W., Bellerose, N. Y., assignor to American Telephone and Telegraph Company. Printing suppression mechanism for teletypewriters. 2,641,644, June 9.

Biddinger, Guy R., Bellwood, and J. B. Hanner, Oak Lawn, assignors to Swift & Company, Chicago, Ill. Sealing machine. 2,641,304, June 9.

Bielak, Frank A., Fairview Park, and W. H. Neely, Cleveland, assignors to The Universal Wire Spring Company, Bedford, Ohio. Wire bracket for tubular rails. 2,641,432, June 9.

Bishop, Robert H., Champaign, Ill. Refrigeration apparatus and method. 2,641,111, June 9.

Bissell, Jonathan M., assignee: *See*—
Jissell, William J.

Bissell, William J., Pasadena, assignor to J. M. Bissell, Los Angeles, Calif. Hose clasp. 2,641,039, June 9.

Bjaaland, Conrad O., Coeur d'Alene, Idaho. Portable excavating and loading machine. 2,641,372, June 9.

Black, Eric A., Red Bank, N. J. Sandwich-type radome panel. 2,641,561, June 9.

Black, Sheppard A., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Apparatus for testing elastic material. 2,641,126, June 9.

Blanchett, Luther E., South Milwaukee, and C. L. Steffanchett, Milwaukee, assignors to Bucyrus-Erie Company, South Milwaukee, Wis. Dynamoelectric machine. 2,641,737, June 9.

Blickenderfer, Charles, Jr., Puyallup, and W. S. Brownfield, assignors to Weyerhaeuser Timber Company, Tacoma, Wash. Double saw carriage for lumber trimming machines. 2,641,288, June 9.

Bloom, Israel, New York, and J. Abrams, East Rockaway, assignors to Conelstan Corporation, New York, N. Y. Means and method of applying coiled layers of rafia to the bottom of bowls. 2,641,299, June 9.

Blumensaadt, Svend O., Beachwood Village, E. H. Gutman, Parma, and W. H. Neely, assignors to Universal Wire Spring Company, Cleveland, Ohio. Clinching apparatus. 2,640,986, June 9.

Blumenthal, Warren B.: *See*—
Urban, Stephen F., and Blumenthal.

Bobb, Lloyd J., Glenside, assignor to The International Electronics Company, Philadelphia, Pa. Magnetic recording and reproducing circuits. 2,641,655, June 9.

Bock, Joseph, Kalispell, Mont. Tractor seat mounting. 2,641,308, June 9.

Bogart, Marcel J. P.: *See*—
Mekler, Valentine, Bogart, Schauble, and Palchik.

Bolin, Carleton H., deceased, Seattle, Wash., by J. R. Bolin, executrix. Automatic steering system. 2,641,213, June 9.

Bolin, Jessie R., executrix: *See*—
Bolin, Carleton H.

Bonanno, Joseph L., Madison, N. J., assignor to The Lionel Corporation, New York, N. Y. Transformer. 2,641,743, June 9.

Bond, John: *See*—
Sachs, Carrol C., and Bond.

Bone, Herbert L., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Railway switch operating apparatus. 2,641,691, June 9.

Boone, Francis M., assignee: *See*—
Moore, Henry S.

Booth, Harry T., assignor to United Aircraft Products, Inc., Dayton, Ohio. Fluid system damage control. 2,641,277, June 9.

Booth, Seth W.: *See*—
Park, Robert H., Weller, Russell, and Booth.

Borg-Warner Corporation, assignee: *See*—
Hardy, Clarence M.

Born, William F., and J. C. Langaunet, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bus duct and plug-in unit. 2,641,636, June 9.

Boston Herald-Traveler Corporation, assignee: *See*—
Tranter, Reginald F. W.

Bostrom, Harold W., F. A. Grabarczyk, and F. E. Svanoe, assignors to Bostrom Manufacturing Company, Milwaukee, Wis. Torsion spring supported pedestal seat mounting. 2,641,306, June 9.

Bostrom Manufacturing Company, assignee: *See*—
Bostrom, Harold W., Grabarczyk, and Svanoe.

Bourdon, Pierre M., assignor to Pulneux: Boulanger et Cie, trading under the name "Manufacture de c/c Michelin," Paris, France. Wheel for rail vehicles. 2,641,498, June 9.

Bowan, Walter J.: *See*—
Mueller, Frank H., and Bowan.

Bowser, Inc., assignee: *See*—
Pressler, Ralph B.

Boyajean, John A., Jr., Upper Montclair, N. J., assignor to Fairchild Camera and Instrument Corporation. Image-reproducing plate and cylinder assembly. 2,641,183, June 9.

Bradley, Frank E., North Hollywood, Calif. Tellurian. 2,641,065, June 9.

Brandon, Thomas O., Cucamonga, Calif. Recording means of missile dispensing tubes of angle determining devices. 2,641,521, June 9.

Bridgefield, Guillermo P., Mexico City, Mexico. Electric current discharge rubber tire. 2,641,294, June 9.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Forteacue, Peter.

British Oxygen Company Limited, The, assignee: *See*—
Ellinger, Leo P.

Britton, Edgar C., and P. S. Petrie, assignors to The Dow Chemical Company, Midland, Mich. Condensation products of styrene oxide with alkylene oxides and making the same. 2,641,614, June 9.

Brock, Harvey, Carrollton, Ga. Tractor-mounted fertilizing implement. 2,641,210, June 9.

Brockman, Emory W., Hartaville, assignor to Healthomatic Corporation, Bala-Cynwyd, Pa. Adjustable foot support device for exercising machines. 2,641,249, June 9.

Brockman, Emory W., Hartsville, assignor to Healthomatic Corporation, Bala-Cynwyd, Pa. Attachment for exercising machines. 2,641,250, June 9.

Brockman, Emory W., Hartsville, assignor to Healthomatic Corporation, Bala-Cynwyd, Pa. Attachment for exercising machines. 2,641,251, June 9.

Brodbeck, Almer H., Webster Groves, Mo., assignor to Magic Chef, Inc. Food conditioner for cooking ranges. 2,641,679, June 9.

Brody, Arthur, Newark, N. J. Protective book cover. 2,641,484, June 9.

Brody, David, assignor to Van Brode Milling Co., Inc., Clinton, Mass. Sealing strip severing machine. 2,641,318, June 9.

Broido, Jacques, Carouge-Geneva, Switzerland. Footage indicator for motion-picture cameras. 2,641,059, June 9.

Brown, Charles H., Breckenridge, Tex. Plow and moldboard adjustment for ditch digging plows. 2,641,071, June 9.

Brown, Daniel M., assignor to Refrigeration Systems, Inc., Chicago, Ill. Vial rack. 2,641,368, June 9.

Brown, Eugene H. C., and I. Lefkowitz, assignors to Joseph E. Seagram & Sons, Inc., Louisville, Ky. Recurrent process controller. 2,641,316, June 9.

Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Applicator. 2,641,254, June 9.

Brown, Horace D.: *See*—
Rogers, Edward F., and Brown.

Brown, Roy M.: *See*—
Enochs, Jerome D., and Brown.

Brown, William: *See*—
Campbell, John S., Brown, and Douglas.

Brownfield, Warren S.: *See*—
Blickenderfer, Charles, Jr., and Brownfield.

Brueatle, Carl O., Rahway, assignor to Syncro Machine Company, Perth Amboy, N. J. Cable reel take-up. 2,641,413, June 9.

Brnun, Otto J., Slough, England. Cup-shaped foil capsule. 2,641,402, June 9.

Bryant, Carrel C.: *See*—
Hunter, Henry M., and Bryant.

Buchi, Alfred, Winterthur, Switzerland. Guide means on impeller for centrifugal pumps or blowers. 2,641,191, June 9.

Büchi, Alfred, Winterthur, Switzerland. Turbine. 2,641,442, June 9.

Bucklin, Walter S., Brookline, Mass. Apparatus for sharpening razor blades and other blades. 2,641,091, June 9.

Bucyrus-Erie Company, assignee: *See*—
Blanchett, Luther E., and Steffen.

Burbank, Wendell T., Three Rivers, assignor to Sutherland Paper Company, Kalamazoo, Mich. Machine for packaging stacked hollow ware such as nested paper cups or the like. 2,641,095, June 9.

Burch, Frank E., Detroit, Mich. Boot hanger. 2,641,366, June 9.

Burke, William O., assignor to National Lock Company, Rockford, Ill. Spring hinge for low-temperature cabinets. 2,641,019, June 9.

Burnett, Robert E.: *See*—
Nordlander, Birger W., and Burnett.

Burris, Allen E., Sabinal, Tex. Gate latch. 2,641,494, June 9.

Burwell, Maurel G., assignor to Century Tank Manufacturing Company, Columbus, Ohio. Apparatus for applying cementitious linings to inner wall surfaces of liquid-holding receptacles. 2,641,218, June 9.

Busby, John C., Jr., U. S. Navy, Salisbury, N. C. Apparatus and method for drafting fibers. 2,641,025, June 9.

Buttery, Kenneth T., and L. W. Sutherland, Jr., assignors to Sutherland Paper Company, Kalamazoo, Mich. Handled cup. 2,641,403, June 9.

Byberg, Jonas J., Silverton, Oreg. Feed mixer and grinder. 2,641,412, June 9.

Bygbjerg, Karl, San Francisco, Calif. Thumbtack applicator. 2,640,985, June 9.

C-O-Two Fire Equipment Company, assignee: *See*—
Siebens, Norman H.

California Spray-Chemical Corporation, assignee: *See*—
Harris, Leonard W., Sanders, and Cassil.

Camenker, Norman, assignee: *See*—
Sander, Howard H.

Campbell, John S., and W. Brown, Melbourne, Ontario, and G. A. Douglas, Mount Bridges, Ontario, Canada. Stamping apparatus for frangible articles. 2,641,179, June 9.

Cnmpbell, Lloyd B., assignee: *See*—
Ault, Harley A.

Canada, Alfred H., Schenectady, N. Y. Automatic flash spotter. 2,641,156, June 9.

Cantrell, Troy L.: *See*—
Smith, Herschel G., Cantrell, and Fisher.

Capehart-Farnsworth Corporation, assignee: *See*—
Farnsworth, Philo T.

Carleton, Henry, Silver Spring, Md. Recording decelerometer. 2,641,457, June 9.

Carlson, Le Roy, Griswold, Iowa. Portable feed grinder carrier. 2,641,326, June 9.

Carlson, Wendell L., Princeton, N. J., assignor to Radio Corporation of America. Variable resonant structure. 2,641,708, June 9.

Caronia, Frank J., Elmhurst, N. Y. Brush with liquid feeding means. 2,641,011, June 9.

Carruthers, Alfred B., Fort Scott, Kans. Rotatable electrical marker light for trains. 2,641,686, June 9.

Carter Products, Inc., assignee: *See*—
McBean, Douglas M.

Case, J. I., Company, assignee: *See*—
Hedquist, Milton T., Harroun, Mayhew, Van De Sampel, and Whalen.
Russell, Stanley D.
Schill, Bernard J.

Cassil, Carroll C.: *See*—
Harris, Leonard W., Sanders, and Cassil.

Castedello, William: *See*—
Schwartz, Morris, and Castedello.

Catalano, Frank P.: *See*—
Catalano, Peter P., J. P., and F. P.

Catalano, Joseph P.: *See*—
Catalano, Peter P., J. P., and F. P.

Catalano, Peter P., J. P., and F. P., assignors to Panepinto Mfg. Corp., North Collins, N. Y. Smoking pipe. 2,641,262, June 9.

Caterpillar Tractor Co., assignee: *See*—
Risk, Norman E., and Ramael.

Caton, Joseph D.: *See*—
Maurer, Edwin R., and Caton.

Cavagnaro, John L.: *See*—
Cavagnaro, Nicholas J., Jr., and J. L. Cavagnaro.

Cavagnaro, Nicholas J., Jr., Hicksville, and J. L. Cavagnaro, Brooklyn, N. Y. Hydraulic expressor. 2,641,122, June 9.

Celanese Corporation of America, assignee: *See*—
Taylor, William I.

Century Tank Manufacturing Company, assignee: *See*—
Burwell, Maurel G.

Chabrier, Pierre: *See*—
Mousaalli, Alexis J. M., Soubiran, and Chabrier.

Chambers Corporation, assignee: *See*—
Chambers, John E., and Phares.

Chambers, John E., and T. E. Phares, Shelbyville, Ind., assignors to Chambers Corporation. Heating unit. 2,641,245, June 9.

Chanda, Clarence W., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 2,641,336, June 9.

Chaney, David W., Nether Providence, Pa., and H. G. Sonmar, assignors to American Viscose Corporation, Wilmington, Del. Acrylonitrile-vinyl amine interpolymers and making. 2,641,524, June 9.

Chaplin, William D., Dereham, assignor to Cranes (Dereham) Limited, Dereham, Norfolk, England. Bogie beam construction. 2,641,481, June 9.

Charles, Alfred J., Denver, Colo. Wheel actuated display toy. 2,641,083, June 9.

Charles, T. Burr, and R. R. Skelton, Durham, N. H. Automatic egg collecting system. 2,641,352, June 9.

Chartrand, Victor E., and P. E. James, Dallas, Tex. Decalcomania. 2,641,562, June 9.

Chatain, Henri G., Clearwater, Fla. Apparatus for clarifying liquids. 2,641,363, June 9.

Chattanooga Medicine Company, The, assignee: *See*—
Le Maistre, John W., and Grote.

Chemstrand Corporation, The, assignee: *See*—
Ham, George E.

Cheney, Charles W., Hockley, Birmingham, England. Key locked slidable bolt fastening for attaché and suitcases and the like. 2,641,123, June 9.

Chenicek, Joseph A.: *See*—
Thompson, Ralph B., and Chenicek.

Chevalier, Pierre J., Lyon, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Composition of fluid methyl polysiloxanes. 2,641,589, June 9.

Christensen, Alfred C., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill. Mixing machine discharge door. 2,641,387, June 9.

Christophersen, Clarence E., assignor to Marman Products Company, Inc., Inglewood, Calif. Axially tightening band clamp. 2,641,038, June 9.

Chrysler Corporation, assignee: *See*—
Jackson, Clifford C.
Maurer, Edwin R., and Caton.
Williams, Samuel B.

Chun, Yee S., assignee: *See*—
Der Yuen, Frank.

Cinch Manufacturing Corporation, assignee: *See*—
Johanson, Bengt J.
Peters, Arthur C.

Cines, Martin R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of furnace blacks. 2,641,535, June 9.

Cines, Martin R., and W. T. Nelson, Bartlesville, Okla., assignors to Phillips Petroleum Company. Treatment of carbon black with oxyhalides. 2,641,533, June 9.

Clane, Luther E., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device and method of fabrication. 2,641,726, June 9.

Clarkson, James: *See*—
Gunion, Lawrence G., and Clarkson.

Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Hood latch. 2,641,017, June 9.

Clayton, Benjamin, Pasadena, Calif. Refining of glyceride oils. 2,641,603, June 9.

Clayton & Lambert Manufacturing Company, assignee: *See*—
Edel, Walter L.

Clegg, John E., Malvern, assignor to National Research Development Corporation, London, England. Terrain clearance indicator. 2,641,754, June 9.

Clemens, Ogden A., and R. O. Mertens, Chicago, and M. Walckhof, Villa Park, assignors to Swift & Company, Chicago, Ill. Chitterling preparing machine. 2,641,020, June 9.

Cleveland Automatic Machine Company, The, assignee: *See*—
Jelinek, Alfred F.

Clinedinst, William O.: *See*—
Dunn, Jerry J., and Clinedinst.

Clippinger, Stewart M., East Orange, N. J., assignor to The Sperry Corporation. Pressure regulating and selecting system for aircraft instruments. 2,641,274, June 9.

Cochran, John K., Conyngham, assignor to The Duplan Corporation, Hazelton, Pa. Adjustable loom beam. 2,641,421, June 9.

Coghill, James T.: *See*—
Hill, Harold S., and Coghill.

Cohen, Abraham B.: *See*—
Levy, Sidney E., and Cohen.

Cohen, Nathaniel L., Teaneck, L. Goldstein, Weehawken, and W. Sichak, Lyndhurst, N. J., assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Control of wave length in wave guide and coaxial lines. 2,641,702, June 9.

Coleman, Lewis B., Cheyenne, Wyo. Counterflashing and anchor cap therefor. 2,641,203, June 9.

Collins Radio Company, assignee: *See*—
Harris, Donald B., and McCreary.
Stover, Harris.

Colorado Iron Works Company, assignee: *See*—
Trammell, John M.

Columbus Auto Parts Company, The, assignee: *See*—
Flumerfelt, William A.

Comery, Peter D., Cooksville, and J. T. Purvis, North York Township, York County, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Rotor blade locking. 2,641,443, June 9.

Conelstan Corporation, assignee: *See*—
Bloom, Israel, and Abrams.

Connecticut Hard Rubber Company, The, assignee: *See*—
Panagrossi, Ahmed.

Continental Supply Company, The, assignee: *See*—
Slonneger, John C.

Corey, John W.: *See*—
Noddings, Charles R., Waldron, and Corey.

Corson, Bayard R., Fishkill, and A. V. Platter, Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Heater connector. 2,641,728, June 9.

Cotter Products Inc., assignee: *See*—
Cotter, William A.

Cotter, William A., assignor to Cotter Products Inc., New York, N. Y. Needle threader. 2,641,394, June 9.

Conrsey, George E., Cincinnati, assignor to The Charles Wm. Doepke Manufacturing Company, Rossmoyne, Ohio. Container with handle stacking means. 2,641,383, June 9.

Cowan, John C.: *See*—
Teeter, Howard M., and Cowan.

Cowen, Lawrence, New York, and N. N. Solovioff, Great Neck, assignors to Airex Manufacturing Co., Inc., Long Island City, N. Y. Fishing reel. 2,641,419, June 9.

Crane Co., assignee: *See*—
Fennema, Richard, and Hansen.

Cranes (Dereham) Limited, assignee: *See*—
Chaplin, William D.

Cronkhite, Harrison L., Wyandotte, Mich. Carbon holder for arc lamps. 2,641,720, June 9.

Crory, Frederick J., Durham, N. H., assignor to Morrone Manufacturing Co., Inc., Westerly, R. I. Single trigger firing mechanism for double-barreled guns. 2,641,976, June 9.

Crossman, Francis M., New York, N. Y. Fluid fuel-fired heat radiation generator. 2,641,313, June 9.

Crown Cork & Seal Company, Inc., assignee: *See*—
Wilckens, Elbe A., and Stoll.

Crucible Steel Corporation of America, assignee: *See*—
Lewis, Reed.

Cruzan, Charles C., Salt Point, assignor to Wire-O Corporation, Poughkeepsie, N. Y. Automatic paper punching machine. 2,641,321, June 9.

Curtis Lighting of Canada Limited, assignee: *See*—
Wright, Howard L.

Curtis Manufacturing Company, assignee: *See*—
Hecker, Harvard K.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Basically substituted alkyl esters of γ-aroylarylbutyric acids and their salts. 2,641,608, June 9.

Cutler-Hammer, Inc., assignee: *See*—
Elliot, William H.
Koenig, Martin F., and Millermaster.
Krieger, Alvin W.

Cutter Corporation, assignee: *See*—
Mansfield, Warren M.

Da Fano, Ettore, Somerville, N. J., assignor, by mesne assignments, to John B. Pierce Foundation, New York, N. Y. Transmitting heat. 2,641,581, June 9.

Dahl, Robert E., Hinsdale, assignor of one-half to Advance Transformer Co., Chicago, Ill. Welding apparatus. 2,641,673, June 9.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Wilfert, Karl.

Danforth, Richard S., Berkeley, assignor to R. H. Eckhoff, Piedmont, Calif., as trustee. Anchor. 2,641,215, June 9.

Dan River Mills, Incorporated, assignee: *See*—
Gagarine, Dmitry M.

Darsey, Van M., assignee: *See*—
Ulrey, David G.

Davis, Christopher A.: *See*—
Oulianoff, George, and Davis.

Davis, Frank L., College Point, N. Y. Stacking cot and litter construction. 2,640,996, June 9.

Davis, Samuel J., and W. W. Thomason, Brownfield, Tex. Material spreading box. 2,641,477, June 9.

Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Electromagnetic relay armature mounting and biasing. 2,641,665, June 9.

Dearborn Motors Corporation, assignee: *See*—
Rhoten, Carey M.

Decker, Clinton W., Pullman, Wash. Manufacture of frozen comestibles. 2,641,546, June 9.

Deere & Company, assignee: *See*—
Silver, Walter H.

De Felice, Domenic: *See*—
Dykstra, Kenneth G., and De Felice.

Denison Engineering Company, The, assignee: *See*—
Adams, Cecil E.

Denmil Supply Company, assignee: *See*—
Dennin, William W.

Dennin, William W., Long Beach, assignor to Denmil Supply Company, Los Angeles, Calif. Coin control lock mechanism. 2,641,347, June 9.

De Packh, David C., U. S. Navy, and J. E. Pugh, Jr., Washington, D. C. Coupling device for relatively rotatable coaxial cables. 2,641,744, June 9.

Depallens, Jules, Lausanne, Switzerland. Filter for purifying a liquid or gaseous fluid. 2,641,364, June 9.

Der Yuen, Frank, Running Springs, assignor of one-half to Yee Sing Chun, Oakland, Calif. Container. 2,641,374, June 9.

Deschamps, Desire J., Rutherford, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine fuel control. 2,641,237, June 9.

Desmonds, Albert X., assignor to Scott & Williams, Inc., Laconia, N. H. Take-up for knitting machines. 2,641,117, June 9.

Des Rosiers, John B., Providence, R. I. Multichamber pneumatic tire. 2,641,295, June 9.

Detrick, M. H., Company, assignee: *See*—
Pollen, Charles F.

De Vletter, Robbert, assignor to N. V. Lijempf, Leeuwarden, Netherlands. Preparing condensed milk and such products containing lactose. 2,641,549, June 9.

Dial, Georges E., Dittisham, England. Anchor. 2,641,216, June 9.

Diamond Crystal Salt C., assignee: *See*—
Dunn, Joseph A., and Diamond.

Diamond, Horace W.: *See*—
Dunn, Joseph A., and Diamond.

Dicke, Robert H., Princeton, N. J. Method and apparatus for counting selected electrical transients. 2,641,409, June 9.

Dicke, Robert H., Princeton, N. J. Sound recording and reproducing apparatus. 2,641,656, June 9.

Dickey, John W.: *See*—
Aumick, K. Donald, and Dickey.

Dickey, Joseph B.: *See*—
Straley, James M., and Dickey.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Electronic multiplier. 2,641,407, June 9.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Controllable multivibrator circuit. 2,641,706, June 9.

Dickson, Robert B., Cleveland, Ohio. Toy pistol. 2,641,242, June 9.

Dillon, Vincent J., Jersey City, N. J. Visor and light for automobile interior. 2,641,684, June 9.
Dilts, Carl E., assignor of one-half to J. H. Hoern, Saginaw, Mich. Boring and turning machine. 2,641,146, June 9.
Dodington, Sven H. M., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Antenna system. 2,641,756, June 9.
Doepke, Charles Wm., Manufacturing Company, The, assignee: *See*—
Coursey, George E.
Doležal, Richard, Ostrava, Czechoslovakia. Cooling wall for heated chambers. 2,641,205, June 9.
Dorey, George B.: *See*—
Zimmer, Albert E., and Dorey.
Dorey, George B., Montreal, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump door operating mechanism. 2,641,200, June 9.
Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door locking mechanism for hopper car doors. 2,641,199, June 9.
Douglas, George A.: *See*—
Campbell, John S., Brown, and Douglas.
Douvan, Boris, Bayonne, N. J., assignor of one-half to George J. Kupchik, New York, N. Y. Automatic cutoff valve for fuel burners. 2,641,314, June 9.
Dow Chemical Company, The, assignee: *See*—
Britton, Edgar C., and Petrie.
Noddings, Charles R., Waldron, and Corey.
D'Osouville, François, Paris, France, assignor to Siper S. A., Emsallah, Tangier. Remote control device for multiple-speed gear boxes. 2,641,637, June 9.
Drake, John A., Los Angeles, assignor to Marquardt Aircraft Company, Van Nuys, Calif. Temperature control system having means to measure turbine inlet temperature indirectly. 2,641,105, June 9.
Draper Corporation, assignee: *See*—
Flamand, Maurice R.
Dry, Claud J.: *See*—
Orcutt, Dale C., and Dry.
Ducasse, Vidal, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Fixture for testing card potentiometers. 2,641,631, June 9.
Duke, Ivan A., Epsom, Auckland, New Zealand. Fencing post. 2,641,448, June 9.
Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Pohle, Eric.
Dumousseau, Claude: *See*—
Touraton, Emile, Piquet, and Dumousseau.
Dunkelow, Henry J., assignor to Twin Disc Clutch Company, Racine, Wis. Adjustable cam operated clutch. 2,641,345, June 9.
Dunn, Jerry J., Ellwood City, and W. O. Clinedinst, Pittsburgh, Pa., assignors to United States Steel Corporation. Method and means for increasing bending fatigue strength of rotary steel drill pipes. 2,641,488, June 9.
Dunn, Joseph A., and H. W. Diamond, assignors, by mesne assignments, to Diamond Crystal Salt Co., St. Clair, Mich. Production of salt brine. 2,641,537, June 9.
Duplan Corporation, The, assignee: *See*—
Cochran, John K.
Dupler, Raymond R., Toledo, Ohio. Indirectly illuminated globe assembly. 2,641,683, June 9.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Albisetti, Charles J., Jr., and Fisher.
Barney, Arthur L.
Benning, Anthony F.
Hofrichter, Charles H., Jr.
Lewis, Hamilton.
Little, Ernest L., Jr.
Martone, Thomas A., Jr.
Meunier, Paul L., and Summerill.
Morrel, Victor M.
Dupuy, Guillaume M., Shanghai, China. Valved pipe fitting. 2,641,485, June 9.
Duvall, Harvey H.: *See*—
Jones, Glenn M., and Duvall.
Dyken, Charles P., Saukville, Wis. Wrapping machine. 2,641,414, June 9.
Dykstra, Kenneth G., Albion, N. Y., and D. De Felice, Morristown, N. J. Obtaining volatile flavors. 2,641,550, June 9.
Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.
Dyrkacz, Wasil W.: *See*—
Mohling, Gunther, and Dyrkacz.
Early, Thomas A., Jr.: *See*—
Barkalow, Clare E., and Early.
East Rutherford Syringes, Inc., assignee: *See*—
Kolodny, Samuel, Miceli, and Krueger.
Eastern Industries, Incorporated, assignee: *See*—
Barker, John L.
Eastman Kodak Company, assignee: *See*—
Straley, James M., and Dickey.
Easy Washing Machine Corporation, assignee: *See*—
Ostberg, Erik.
Rauscher, Elbridge F.
Eaton Manufacturing Company, assignee: *See*—
Findley, Howard J.
Eccleston, Paul H., Ilion, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Apparatus for testing and adjusting gun sights. 2,641,056, June 9.
Eckerd, James W.: *See*—
Mulcey, Paul A., Eckerd, and Small.
Eckhoff, Robert H., trustee assignee: *See*—
Danforth, Richard S.
Edel, Walter L., assignor to Clayton & Lambert Manufacturing Company, Louisville, Ky. Evaporator for uniform pressure absorption type refrigerators. 2,641,003, June 9.
Edelson, Leon, Elkins Park, Pa. Lighter construction. 2,641,118, June 9.
Edgar, William S. W., Jr., assignor to The Western Union Telegraph Company, New York, N. Y. Electronic code telegraph reading and repeating system. 2,641,641, June 9.
Edgar, William S. W., Jr., assignor to The Western Union Telegraph Company, New York, N. Y. Electronic code telegraph reading and repeating system. 2,641,651, June 9.
Ehlers, Russell W., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Army. Armored garment. 2,640,987, June 9.
Ehret, Yale W., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Push-out sash. 2,641,031, June 9.
Eitel-McCullough, Inc., assignee: *See*—
Preist, Donald H.
Preist, Donald H., and Ballou.
Electric Controller & Manufacturing Company, The, assignee: *See*—
Schurr, Charles A.
Electrolux Corporation, assignee: *See*—
Lofgren, Gustaf E., Lampe, and Ferraris.
Ellinger, Leo P., assignor to The British Oxygen Company Limited, London, England. Purification of chemical compounds. 2,641,616, June 9.
Elliot, William H., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electronic motor control system. 2,641,735, June 9.
Elmer, William B., Lakewood, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Battery container. 2,641,625, June 9.
Eldsden, Herbert E., assignor to Sendel Limited, Dublin, Ireland. Index file. 2,641,260, June 9.
Elström, Sven E.: *See*—
Haglund, Didrik W., and Elström.
Emro Manufacturing Company, Incorporated, assignee: *See*—
Pessina, Joseph G.
Engelder, Arthur E., Morenci, Ariz. Anesthesia apparatus. 2,641,253, June 9.
Engle, Byron, Washington, D. C. Positioning structure for revolver holsters. 2,641,395, June 9.
English Electric Valve Company Limited, assignee: *See*—
Lines, Albert W.
Enocha, Jerome D., Bronx, and R. M. Brown, Brooklyn, assignors to Jaymar Specialty Company, Brooklyn, N. Y. Hammer action for musical instruments. 2,641,153, June 9.
Enaey, Clayton, Rockville, Ind. Pressure-relief accessory for automobile bodies. 2,641,501, June 9.
Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.
Zimmer, Albert E., and Dorey.
Eplett, Albert D., Stratford, and F. H. Hopkins, Fairfield, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Pressure relief valve. 2,641,278, June 9.
Erdmann, Otto, assignor to G. B. Lewis Company, Watertown, Wis. Beehive comb frame construction. 2,641,002, June 9.
Ernst, Roman J., Detroit, Mich. Lip shield. 2,640,991, June 9.
Estabrook, John Y., Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn. Tail cone having radially adjustable wall. 2,641,104, June 9.
Estes, Elbert L., Woodburn, Oreg. String wrapping machine. 2,641,084, June 9.
Eureka Rubber Co. (North) Limited, assignee: *See*—
Woodward, James M.
Evans, James W., Highland, Ind., assignor to General Mills, Inc. Flavoring composition. 2,641,547, June 9.
Evans, Vernon P.: *See*—
Higgins, Edward N., and Evans.
Evans, Vincent J., Lakewood, Ohio, assignor to The Willcolator Company, Elizabeth, N. J. Indicator system for gas heated appliances. 2,641,750, June 9.
Extruders, Inc., assignee: *See*—
Kress, Richard G.
Fairchild Camera and Instrument Corporation, assignee: *See*—
Boyajean, John A., Jr.
Falcon, William V., Revere, Mass. Fuel pump. 2,641,196, June 9.
Farm Appliance Corporation, assignee: *See*—
McKinney, James F., and Miller.
Farnsworth, Philo T., Freyburg, Maine, assignor to Capehart-Farnsworth Corporation. Television image analyzing tube. 2,641,723, June 9.
Farnsworth Research Corporation, assignee: *See*—
Hallmark, Clyde E.
Faulkner, Edward, Anaheim, Calif. Cleaning internal-combustion engines. 2,641,267, June 9.

Federal Telephone and Radio Corporation, assignee: *See*—
Adams, Paul R.
Dodington, Sven H. M.
Labin, Emile, Frankel, and Silver.
Fennema, Richard, and G. E. Hansen, assignors to Crane Co., Chicago, Ill. Valve removal wrench. 2,641,052, June 9.
Ferguson, Harry, Inc., assignee: *See*—
Reynolds, Nelson E., and McRobert.
Ferraris, John T.: *See*—
Lofgren, Gustaf E., Lampe, and Ferraris.
Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Sliding vane type hydrodynamic machine. 2,641,195, June 9.
Fichter, Ludwig J., Rockford, Ill., assignor to The Hoover Company, North Canton, Ohio. Electric toaster. 2,641,175, June 9.
Filardo, Laurin, Los Angeles, Calif. Metatarsal length compensating device. 2,641,066, June 9.
Filtex Corporation, assignee: *See*—
Lovick, John B.
Findley, Howard J., Lyndhurst, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Band brake. 2,641,338, June 9.
Finizie, Edmond J., assignee: *See*—
Finizie, Lyonel T.
Finizie, Lyonel T., Grand Prairie, Tex., assignor to E. J. Finizie, Bridgeport, Conn. Cooking apparatus. 2,641,177, June 9.
Fish, Richard H.: *See*—
Wright, David P., and Fish.
Fisher, Earl E.: *See*—
Smith, Herschel G., Cantrell, and Fisher.
Fisher, Norman G.: *See*—
Albisetti, Charles J., Jr., and Fisher.
Flamand, Maurice R., Central Falls, R. I., assignor to Draper Corporation, Hopedale, Mass. Method and mechanism for shuttleless looms. 2,641,285, June 9.
Fleischhauer, Henry G., Portland, Oreg. Automatic control valve for branch pipe lines. 2,641,280, June 9.
Flugrath, Walter W., New Braunfels, Tex. Window screen latch. 2,641,493, June 9.
Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Sealed universal ball bearing joint. 2,641,492, June 9.
Foner, Newton F., Pittsburgh, Pa., assignor to United States Steel Corporation. Rotary cooling apparatus. 2,641,064, June 9.
Fontenot, Charles J., assignee: *See*—
Adams, Mozel A.
Fontenot, Lloyd W., assignee: *See*—
Adams, Mozel A.
Foote, Donald S., and E. S. Atwell, Ilion, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Cocking mechanism for double barrel upward tilting breech firearms. 2,641,077, June 9.
Fortescue, Peter, assignor to The Bristol Aeroplane Company Limited, Bristol, England. Regulating means for gas turbine installations. 2,641,324, June 9.
Foster Wheeler Corporation, assignee: *See*—
Hemenway, Henry H., and Thunstrom.
Fonquet, Eugène, Bois-Colombes, France. Method and means for the reproduction by grinding. 2,641,089, June 9.
Fox, Willis E.: *See*—
Herbert, Robert B., and Fox.
Frankel, Sidney: *See*—
Labin, Emile, Frankel, and Silver.
Freed Transformer Company, Inc., assignee: *See*—
Gurevics, David.
Freeman, Lawson J., Jr., assignor of three-fourths to E. J. Laperouse and one-fourth to L. J. Freeman, Sr., Houma, La. Ventilated metal awning. 2,641,032, June 9.
Freeman, Lawson J., Sr., assignee: *See*—
Freeman, Lawson J., Jr.
French Oil Mill Machinery Company, The, assignee: *See*—
Upton, Charles B.
Friedl, Anton J., Chicago, Ill., assignor to United States Steel Corporation. Device for holding coils of strapping with means for delivering lengths therefrom. 2,641,470, June 9.
Friedman, Max, High Point, N. C. Tobacco dispenser. 2,641,361, June 9.
Frisch, Kurt C., and P. D. Shroff, Pittsfield, Mass., assignors to General Electric Company. Triorganosilylbenzaldehydes. 2,641,605, June 9.
Fryda, Paul A., West Allis, Wis. Brush handle connection. 2,641,513, June 9.
Fuller, James B., assignee: *See*—
Merrifield, John B.
Gabriele, Samuel F., Brooklyn, N. Y. Electric drill adapter kit. 2,641,479, June 9.
Gagarine, Dmitry M., Danville, Va., assignor to Dan River Mills, Incorporated. Manufacturing acetone-formaldehyde condensation products. 2,641,591, June 9.
Gallagher, Samuel D., and J. Lamversie, St. Louis, Mo. Lock for fifth wheel king pins. 2,641,124, June 9.
Gamertsfelder, George R., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Impedance measuring instrument. 2,641,632, June 9.
Gano, Joseph J., Worcester, Mass., assignor, by mesne assignments, to J. Orbeli, Brooklyn, N. Y. Cutting machine for plastic material. 2,641,041, June 9.
Garbo, Paul W., Freeport, assignor to Hydrocarbon Research, Inc., New York, N. Y. Transferring heat by a powdered thermophore in a state of dense phase fluidization. 2,641,450, June 9.
Garofalo, Joseph N., Plainfield, N. J. Automobile accessory. 2,641,359, June 9.
Garrison, Clifford L., assignor to Oliver Instrument Company, Adrian, Mich. Actuator for machine elements. 2,641,092, June 9.
Garrison, Clifford L., assignor to Oliver Instrument Company, Adrian, Mich. Universal joint construction. 2,641,115, June 9.
Gassner, Alfred A., assignor to American Car and Foundry Company, New York, N. Y. Axle construction. 2,641,499, June 9.
Gaylord Products, Incorporated, assignee: *See*—
Thatcher, Lewis E.
Gear Grinding Machine Company, The, assignee: *See*—
Leslie, Deltan L., and Mustonen.
Gearien, William F., Hamilton, Ill. Fish landing funnel. 2,641,078, June 9.
Genebach, Lowell B., assignor to United Steel & Wire Company, Battle Creek, Mich. Adjustable oven or broiler rack. 2,641,247, June 9.
General American Transportation Corporation, assignee: *See*—
Hunter, Henry M., and Bryant.
Talmey, Paul, and Gleason.
General Aniline & Film Corporation, assignee: *See*—
Kleinschmidt, Roger F.
Sweet, Monroe H.
General Electric Company, assignee: *See*—
Frisch, Kurt C., and Shroff.
Hyer, Donald R., and Lynch.
Nordlander, Birger W., and Burnett.
Nordlander, Birger W., and Loritsch.
Robinson, John C.
Schumacher, Frank A.
Thomas, Henry P.
Woolard, Simon B.
General Electric Company Limited, The, assignee: *See*—
Levy, Maurice M.
General Mills, Inc., assignee: *See*—
Evans, James W.
General Motors Corporation, assignee: *See*—
Leslie, James D., and Schamel.
General Precision Laboratory Incorporated, assignee: *See*—
Gamertsfelder, George R.
General Tire & Rubber Company, The, assignee: *See*—
Thiry, Leon F.
Gerber, Dale C., North Canton, and J. E. Vance, Canton, assignors to The Hoover Company, North Canton, Ohio. Making suction cleaner hose. 2,641,301, June 9.
Gevirtman, Jerome, Brooklyn, N. Y. Smoker's pipe. 2,641,263, June 9.
Gibson Electric Company, assignee: *See*—
Graves, Herbert C., Jr.
Gill, John B., assignor to Pilot Manufacturing Company, San Francisco, Calif. Detachable link for pipecutting tools. 2,641,103, June 9.
Gilvarry, John J., Santa Monica, and D. F. Rutland, Pacific Palisades, Calif., assignors to North American Aviation, Inc. Accelerometer. 2,641,458, June 9.
Glass Fibers, Inc., assignee: *See*—
Labino, Dominick.
Gleason, John M.: *See*—
Talmey, Paul, and Gleason.
Glickman, Mannes N., Nutley, N. J. Electric switch. 2,641,669, June 9.
Gloess, Paul F. M., and L. J. Libois, Paris, France. Delay line decoder. 2,641,698, June 9.
Gloess, Paul F. M., and L. J. Libois, Paris, France. Multiplex pulse time modulation system. 2,641,699, June 9.
Glowmeter Corporation, assignee: *See*—
Mihalakis, Agis I.
Goddard, Esther C., executrix: *See*—
Goddard, Robert H.
Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Means for cooling turbine blades by air. 2,641,040, June 9.
Goldberg, Moses W., Upper Montclair, and A. I. Rachlin, Hackensack, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Furans and production. 2,641,597, June 9.
Goldberg, Moses W., Upper Montclair, and A. I. Rachlin, Maywood, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Dibenzoylethylene compounds and producing the same. 2,641,599, June 9.
Goldberg, Moses W., Upper Montclair, and A. I. Rachlin, Maywood, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Furans and preparation. 2,641,601, June 9.
Goldberger, Gerald N., Flushing, and V. I. Rohinson, Far Rockaway, assignors to Precision Apparatus Co., Inc., Elmhorst, N. Y. High-voltage multiplier probe. 2,641,630, June 9.
Goldstein, Ladislas: *See*—
Cohen, Nathaniel L., Goldstein, and Sichak.
Goodrich, B. F., Company, The, assignee: *See*—
Witt, Homer E.
Goosman, Leslie L., Pagosa Springs, Colo. Heating unit. 2,641,232, June 9.

Gosline, Frederick V., Detroit, Mich., assignor, by mesne assignments, to Pioneer Specialty Company. Actuating means for antennas and the like. 2,641,135, June 9.

Goss, Norman L., Pasadena, Calif. Portable cooking vessel. 2,641,243, June 9.

Gossner, Louis E. E., assignor to Treg, Inc., San Francisco, Calif. Sealing closure. 2,641,037, June 9.

Grabarczyk, Frank A.: *See*—
Bostrom, Harold W., Grabarczyk, and Svanoe.

Grady, Henry W., Gadsden County, Fla. Cigar perforating device. 2,641,265, June 9.

Gramegna, Franco, Milan, Italy, assignor to St. Regis Paper Company, New York, N. Y. Bag bottom forming device. 2,641,167, June 9.

Graves, Herbert C., Jr., Wilkinsburg, assignor to Gibson Electric Company, Pittsburgh, Pa. Serrated contact. 2,641,670, June 9.

Graybill, Kenneth W., Elmhurst, and H. Sengebusch, Villa Park, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Making rotary switch wipers. 2,641,050, June 9.

Green, Barrett K., assignor to The National Cash Register Company, Dayton, Ohio. Paper with improved printing characteristics. 2,641,557, June 9.

Greene, Albert E., Evergreen Point, Medina, Wash. Electric induction furnace. 2,641,621, June 9.

Gregg, Raymond W., assignee: *See*—
Offutt, John T.

Greiman, Benjamin F., Garner, Iowa. Grain drier. 2,641,063, June 9.

Greiser, Howard A., San Jose, Calif. Remote control valve for heavy duty sandblast hose. 2,641,087, June 9.

Grinde, George H., and L. L. Wolf, assignors to Phillips Manufacturing Company, Inc., Minneapolis, Minn. Electrical head bolt replacement heater for liquid cooled internal-combustion engines. 2,641,239, June 9.

Gring, John L., Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y. Producing silica gel spheres in oil. 2,641,583, June 9.

Grisdale, George W., Philadelphia, Pa. Differential air gauge. 2,641,130, June 9.

Grote, Irvine W.: *See*—
Le Maistre, John W., and Grote.

Guardian Export Packers Corporation, The, assignee: *See*—
Akely, William S.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Gulf Oil Corporation, assignee: *See*—
Smith, Herschel G., Cantrell, and Fisher.

Gunion, Lawrence G., Lake Orion, and J. Clarkson, Ferndale, Mich. Auxiliary windshield for convertible automobiles. 2,641,502, June 9.

Gurevics, David, New York, N. Y., assignor to Freed Transformer Company, Inc. Attenuating vacuum tube voltmeter. 2,641,626, June 9.

Guthof, Luis S., Mexico City, Mexico. Cooking device. 2,641,246, June 9.

Gutxman, Edward H.: *See*—
Blumensaadt, Svend G., Gutxman, and Neely.

Gwinn, Myron B., Denver, Colo. Attachment for clothes hangers and like articles. 2,641,393, June 9.

Gyromechanisms, Inc., assignee: *See*—
Kenyon, Theodore W.

Haensel, Vladimir, Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Regeneration of a platinum-containing catalyst. 2,641,582, June 9.

Haglund, Didrik W., Sandviken, and S. E. Elström, Stockholm, assignors to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Bore crown for percussion drilling. 2,641,446, June 9.

Hall, Kendall L., Parkersburg, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Wound package liner-wrapper. 2,641,102, June 9.

Hallmark, Clyde E., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Pulse counter. 2,641,694, June 9.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Synthetic fiber preparation from solutions of acrylonitrile polymers in dimethyl phosphite. 2,641,585, June 9.

Hamilton, Francis E., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Zero splits. 2,641,180, June 9.

Hanes, James W. E.: *See*—
Williams, William J., and Hanes.

Hanlon & Goodman Co., assignee: *See*—
Sauter, Harold F., and Weinberger.

Hanna, Rose T., West Somerville, Mass. Device for use in making bound buttonholes. 2,641,388, June 9.

Hannahs, Wilson H., Westbury, N. Y., assignor to Sylvania Electric Products Inc. Printed electrical conductor. 2,641,675, June 9.

Hanner, John B.: *See*—
Biddinger, Guy R., and Hanner.

Hansen, George E.: *See*—
Fennema, Richard, and Hansen.

Harban, Arthur A., Lansing, Ill., and C. E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill. Alkenylation of furans. 2,641,600, June 9.

Hardy, Clarence M., Effingham, assignor to Borg-Warner Corporation, Chicago, Ill. Safety switch for ranges. 2,641,678, June 9.

Harpster, Glen, Los Angeles, Calif. Multiple outlet connector. 2,641,745, June 9.

Harrer, Paul H., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. High lift side delivery rake. 2,641,098, June 9.

Harriman, Thomas J., Williamsville, and F. P. Bassett, Lockport, assignors to Bell Aircraft Corporation, Wheatfield, N. Y. Aircraft undercarriage. 2,641,423, June 9.

Harris, Donald B., and R. L. McCreary, assignors to Collins Radio Company, Cedar Rapids, Iowa. High-frequency tube. 2,641,733, June 9.

Harris, Leonard W., Richmond, G. R. Sanders, El Cerrito, and C. C. Casell, Berkeley, assignors to California Spray-Chemical Corporation, Richmond, Calif. Production of tetra esters of diphosphoric acid. 2,641,606, June 9.

Harroun, Keith: *See*—
Hedquist, Milton T., Harroun, Mayhew, Van De Sampel, and Whalen.

Harry, Geoffrey M., Oak Park, Ill. Turning attachment for drill presses. 2,641,150, June 9.

Hart, George, assignee: *See*—
Tice, Reuben S.

Harter, Isaac, Jr., Beaver, Pa., assignor, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J. Method of and apparatus for indicating and/or controlling the level of liquid within an opaque container. 2,641,034, June 9.

Hartsell, Arlis C., El Campo, Tex. Well fluid stabilizer. 2,641,322, June 9.

Hasbrouck, John S., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Fluid coupling and clutch. 2,641,342, June 9.

Hassler, Kenneth, Bronx, N. Y. Pocket-containing headgear. 2,640,992, June 9.

Haugen, Edmond H., Birmingham, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Liquid fuel burner. 2,641,189, June 9.

Hawk, Grover G., assignor to The Hoover Company, North Canton, Ohio. Filter mounting for suction cleaners. 2,641,332, June 9.

Hazlett, William A., Baltimore, Md. Pressure operated collapsible valve. 2,641,282, June 9.

Healthomatic Corporation, assignee: *See*—
Brockman, Emory W.

Hecker, Arthur C.: *See*—
Leistner, William E., and Hecker.

Hecker, Harvard K., Clayton, Mo., assignor to Curtis Manufacturing Company. Lifting device. 2,641,514, June 9.

Hedberg, Victor A., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Coupling construction. 2,641,489, June 9.

Hedquist, Milton T., K. Harroun, D. D. Mayhew, A. Van De Sampel, and A. J. Whalen, Rock Island, Ill., assignors to J. I. Case Company. Two-way tractor mounted plow. 2,641,171, June 9.

Heijne den Bak, Carel W., and R. R. Laupman, Rhenen, Netherlands. Producing articles from rubber. 2,641,023, June 9.

Heinrich, Helen W., Little Rock, Calif. Preserving avocados. 2,641,548, June 9.

Heinz, H. J., Company, assignee: *See*—
Higgins, Edward N., and Evans.

Heller, Harold S., Cleveland Heights, Ohio. Staple having deflecting points. 2,641,154, June 9.

Hellyer, John T., Winfield, assignor to Thor Corporation, Chicago, Ill. Dishwashing machine. 2,641,268, June 9.

Heltzel, Donald T., assignee: *See*—
Heltzel, Joseph W.

Heltzel, Joseph W., assignor to D. T. Heltzel, Warren, Ohio. Mastic joint installing machine. 2,641,168, June 9.

Hemenway, Henry H., St. Albans, and J. F. Thunstrom, Bronx, assignors to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,641,233, June 9.

Hemming, Albert, Ortonville, Mich. Therapeutic table. 2,641,232, June 9.

Henderson, Malcolm C.: *See*—
Hisserich, Charles A., Henderson, and Wyckoff.

Henshaw, Richard C., assignor to Lord Manufacturing Company, Erie, Pa. Shock and vibration isolating mounting. 2,641,434, June 9.

Hepperle, Erwin: *See*—
Lippert, Hanns, and Hepperle.

Herbert, Robert B., and W. E. Fox, Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Radio index punch. 2,641,319, June 9.

Herrmann, William E.: *See*—
Bankauf, William F., Herrmann, and Ross.

Hesselgesser, Mary F. L., Baker, Nev. Hand scrubbing device for amputees. 2,641,013, June 9.

Hewett-Robins Incorporated, assignee: *See*—
Bankauf, William F., Herrmann, and Ross.

Hicks, James C., Menlo Park, Calif., assignor to Kaiser Aluminum & Chemical Corporation. Preparation of magnesium oxide. 2,641,532, June 9.

Higgins, Edward N., Emsworth, and V. P. Evans, McKees Rocks, assignors to H. J. Heinz Company, Pittsburgh, Pa. Preparation of canned products. 2,641,176, June 9.

Higgins, William F., and R. G. Wilkinson, assignors to Magnesium Elektron Limited, Clifton Junction, near Manchester, England. Electric primary cell. 2,641,622, June 9.

Hill, Harold S., Kenogami, Quebec, Canada, and J. T. Coghill, Rochester, N. Y. Processing fibrous pulp. 2,641,164, June 9.

Hines Flask Company, assignee: *See*—
Hines, Russell J., and Hintz.

Hines, Russell J., and A. C. Hintz, Lakewood, assignors, by mesne assignments, to Hines Flask Company, Cleveland, Ohio. Molding apparatus. 2,641,033, June 9.

Hintz, Arthur C.: *See*—
Hines, Russell J., and Hintz.

Hise, Herbert M., Chicago, Ill. Stringed musical instrument. 2,641,152, June 9.

Hisserich, Charles A., M. C. Henderson, and K. K. Wyckoff, San Diego, Calif., assignors to the United States of America as represented by the Secretary of the Navy. Light valve. 2,641,640, June 9.

Hobush, Albert P.: *See*—
Schmid, Herman, and Hobush.

Hoe, R., & Co., Inc., assignee: *See*—
Schnell, Frederick W.

Hoeppner, Conrad H., Washington, D. C. Pulse group generator. 2,641,700, June 9.

Hoern, Joseph H., assignee: *See*—
Dilts, Carl E.

Hoffman, George L., and S. J. Petersen, Miami, Fla. Stair lift hand truck. 2,641,325, June 9.

Hoffmann-La Roche Inc., assignee: *See*—
Goldberg, Moses W., and Rachlin.

Hofrichter, Charles H., Jr., Madison, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of polyethylene terephthalate with cobaltous acetate as catalyst. 2,641,502, June 9.

Holdeniine Company, assignee: *See*—
Wise, Gary E.

Holthaus, Paul W., Hessen, Germany. Fuel gas treatment. 2,641,114, June 9.

Hoopingarner, Isabel, Dallas, Tex. Convertible couch bed. 2,640,997, June 9.

Hoover Company, The, assignee: *See*—
Fichter, Ludwig J.
Gerber, Dale C., and Vance.
Hawk, Grover G.
Martin, Frank A., and Warburton.
Ripple, Melvin H.
Vance, John E.
Woessner, William H.

Hopkins, Frank H.: *See*—
Eplett, Albert D., and Hopkins.

Hosford, Harry W., Jr., Shaker Heights, Ohio. Wire tracer. 2,641,633, June 9.

Hoth, Daniel F., Millburn, N. J., and R. O. Soffel, Hastings on Hudson, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic multichannel selection. 2,641,757, June 9.

Houston, Junius W., Kansas City, Kans. Pumping device. 2,641,283, June 9.

Howe, Henry: *See*—
Ingram, George, Jr., and Howe.

Howe, Orville A., South Afton, Mo. Flashing for corrugated buildings. 2,641,340, June 9.

Howell, Robert H.: *See*—
Meadows, James L., Howell, Starts, and Miller.

Hudson, Harold L., Toledo, Ohio. Flue for deep-frying equipment. 2,641,331, June 9.

Hudson, Harold L., Ottawa Lake, Mich. Belt unloader for control of material flow. 2,641,355, June 9.

Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated. Sectional block-type scarfing tip. 2,641,312, June 9.

Hull, Charles B., University Heights, and C. C. Keller, Shaker Heights, Ohio, assignors to United States Steel Corporation. Apparatus for measuring the speed of elongated products. 2,641,715, June 9.

Hunt, Rodney, Machine Company, assignee: *See*—
Belcher, Harold H.

Hunter, Henry M., Brooklyn, N. Y., and C. C. Bryant, Caldwell, N. J., assignors, by mesne assignments, to General American Transportation Corporation, Chicago, Ill. Center scroll bearing. 2,641,356, June 9.

Hussey, Luther W., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilized oscillator. 2,641,705, June 9.

Hutchins, Cecil W., Vancouver, British Columbia, Canada. Print washing machine. 2,641,170, June 9.

Hydrocarbon Research, Inc., assignee: *See*—
Garbo, Paul W.

Hydropress, Incorporated, assignee: *See*—
Bertrand, Joseph V.

Hydrotator Company, assignee: *See*—
Remick, Walter L.

Hyer, Donald R., Peabody, and E. E. Lynch, Wakefield, Mass., assignors to General Electric Company. Load control apparatus. 2,641,716, June 9.

Item Sociedad de Responsabilidad Limitada, assignee: *See*—
List, Enrique.

Illinois Watch Case Co., assignee: *See*—
Irelan, Ellison S.

Incoro, Inc., assignee: *See*—
Schmid, Herman, and Hobush.

Industriaktiebolaget Luxor, assignee: *See*—
Zandelin, Johan S.

Ingersoll-Rand Company, assignee: *See*—
Le Valley, John.

Ingram, George, Jr., Southend-on-Sea, and H. Howe, Rockley, England. Metal frame for upholstered furniture. 2,641,311, June 9.

Institute of Paper Chemistry, The, assignee: *See*—
Wells, Sidney D.

International Business Machines Corporation, assignee: *See*—
Corson, Bayard R., and Platter.
Dickinson, Arthur H.
Hamilton, Francis E.
Herbert, Robert B., and Fox.
Johnson, Reynold B.
Kistner, Harold J.
Lubn, Hans P.
Rowley, Russell A., and Newcomb.

International Electronics Company, The, assignee: *See*—
Bobb, Lloyd J.

International Standard Electric Corporation, assignee: *See*—
Cohen, Nathaniel L., Goldstein, and Sichak.
Deakin, Gerald.
Moore, Thomas.
Touraton, Emile, Piquet, and Dumousseau.
Touraton, Emile, and Weill.

Irelan, Ellison S., Elgin, Ill., assignor to Illinois Watch Case Co. Spring for hinged cases. 2,641,360, June 9.

Jackman, George W., assignor to The Waterbury Farrel Foundry & Machine Company, Inc., Waterbury, Conn. Cutting tool. 2,641,047, June 9.

Jackson, Clifford C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Window regulator. 2,641,468, June 9.

Jackson, James O., Crafton, Pa., assignor to Pittsburgh-Des Moines Company, Pothead. 2,641,628, June 9.

Jacoby, Raymond W., Mountain Lakes, N. J. Ageing or reducing apparatus. 2,641,119, June 9.

Jacques, Stanley A., assignor to Askania Regulator Company, Chicago, Ill. Creep prevention control for hydraulic power units. 2,641,227, June 9.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Eddy-current ring construction for electrical machines. 2,641,722, June 9.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Generator controlled motor system. 2,641,736, June 9.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Control apparatus for fluctuating electro-mechanical systems. 2,641,759, June 9.

James, Herschel, Dryden, Wash. Ladder. 2,641,401, June 9.

James, Paul E.: *See*—
Chartrand, Victor E., and James.

Janow, Joseph, Dallas, Tex. Variable pitch pulley. 2,641,138, June 9.

Janssen, Emil H.: *See*—
McHale, Clifford B., and Janssen.

Jay, Bernard: *See*—
Jay, Carl B., and J.

Jay, Carl B., and J., Philadelphia, Pa. Check valve with supplemental cam actuator. 2,641,437, June 9.

Jay, Jules: *See*—
Jay, Carl B., and J.

Jaymar Specialty Company, assignee: *See*—
Enocha, Jerome D., and Brown.

Jeffrey Manufacturing Company, The, assignee: *See*—
Weggum, Gust.

Jelinek, Alfred F., assignor to The Cleveland Automatic Machine Company, Cincinnati, Ohio. Electrohydraulic system having a safety shutoff valve for its accumulator. 2,641,106, June 9.

Jeurling, Sten A. W., Stockholm, Sweden. Apparatus for melting waxy compounds for spraying purposes. 2,641,676, June 9.

Johanson, Bengt J., assignor to Cinch Manufacturing Corporation, Chicago, Ill. Electrical connector. 2,641,747, June 9.

Johns-Manville Corporation, assignee: *See*—
Steele, Harmon.

Johnson, Carl E.: *See*—
Harban, Arthur A., and Johnson.

Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Composite keyboard. 2,641,320, June 9.

Johnson, Thomas W., Parsippany, assignor to Bendix Aviation Corporation, Teterboro, N. J. Balanced impeller for centrifugal pumps. 2,641,190, June 9.

Jones, Glenn M., Farmington, and H. H. Duvall, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,641,194, June 9.

Jones, Lester, Canton, Ill., assignor to Pabst Brewing Company, Milwaukee, Wis. Device for cleaning out the bottoms of grain elevators. 2,641,357, June 9.

Jones, R. Lee G., Beaumont, Tex., and S. C. Okeon, Memphis, Tenn., said Okeon assignor to said Jones. Filter cleaning machine. 2,641,260, June 9.

Jönsson, Karl O. E., Stockholm, Sweden. Folding bed and cabinet unit. 2,641,000, June 9.

Jurgens, Heinz: *See*—
Leypold, Dieter, Rudolph, and Jurgens.

Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Austin, Leslie W.
Austin, Leslie W., and Rick.
Hicks, James C.

Kaiser, Edward W., Chicago, Ill. Heat exchanger. 2,641,451, June 9.

Kalart Company, Inc., The, assignee: *See*—
Schwartz, Morris, and Castedello.

Kalman Floor Company, Incorporated, assignee: *See*—
Ytterberg, Carl F.

Kammerer, Archer W., Fullerton, Calif. Hook tooth rotary drill bit and cutter. 2,641,447, June 9.

Kawecki, Henry C., Temple, assignor to The Beryllium Corporation, Reading, Pa. Producing beryllium basic acetate. 2,641,611, June 9.

Keleher, James J., Sacramento, Calif., assignor to Prismo Products, Inc., Dayton, Ohio. Apparatus for dispensing small articles over a restricted area. 2,641,476, June 9.

Keller, Carl C.: *See*—
Hull, Charles B., and Keller.

Keller, Walter P., Chicago, Ill. Plug-in electrical receptacle. 2,641,746, June 9.

Kennametal Inc., assignee: *See*—
Kennicott, Wilbur L.
McKenna, Philip M.

Kennicott, Wilbur L., Unity Township, Westmoreland County, assignor to Kennametal Inc., Latrobe, Pa. Toolholder. 2,641,049, June 9.

Kenyon, Theodore W., Huntington, N. Y., assignor to Gyromechanisms, Inc. Gyroscopically operated measuring instrument. 2,641,134, June 9.

Kerr, Alexander H., and Company, Incorporated, assignee: *See*—
Sachs, Carrol C., and Bond.

Kerr, Samuel L., Philadelphia, Pa., and L. H. Kessler, Evanston, Ill. Apparatus for the measurement of the bulk modulus of liquids. 2,641,127, June 9.

Kessler, Lewis H.: *See*—
Kerr, Samuel L., and Kessler.

Keys, Clarence B., Sherman Oaks, Calif. Apparatus for cutting threads. 2,641,287, June 9.

King, Gilbert W., South Lincoln, assignor to Arthur D. Little, Inc., Cambridge, Mass. Digital reader. 2,641,522, June 9.

Kingsbury, Webb, Dumont, N. J., assignor to United Fruit Company, Boston, Mass. Banked conveyer. 2,641,354, June 9.

Kinnear, Joseph D., Jr., Detroit, Mich. Method and apparatus for applying seeds to carriers. 2,641,298, June 9.

Kinsey, William P., St. Louis, Mo. Fishing reel. 2,6[illegible],417, June 9.

Kircher, Reymond J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Photoelectric device. 2,641,712, June 9.

Kirk, John B., and G. E. Miller, Rome, N. Y. Pipe hanger with glide rollers. 2,641,428, June 9.

Kirk Manufacturing Co., assignee: *See*—
Kirk, William M.

Kirk, William M., assignor to Kirk Manufacturing Co., Amarillo, Tex. Animal rubbing and oiling station. 2,641,225, June 9.

Kistner, Harold J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Rebound preventing type bar rest for typewriting machines. 2,641,349, June 9.

Kleinman, Jacob L., New York, N. Y. Shoulder pad structure. 2,640,993, June 9.

Kleinschmidt, Roger F., Belvidere, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Mixed acetals of 2-propyn-1-ol. 2,641,615, June 9.

Klepetko, Ernest, Jr., Aruba, Curacao, Netherlands, West Indies. Power transmission. 2,641,142, June 9.

Klessig, Ernst F., Berkley, assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,641,193, June 9.

Knoenke, Olga H.: *See*—
Leistner, William E., and Knoepke.

Knutson, James B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Switch. 2,641,664, June 9.

Koenig, Martin F., Milwaukee, and R. A. Millermaster, Whitefish Bay, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,641,671, June 9.

Koffski, John H., Chisholm, Minn. Canceling and dating device. 2,641,182, June 9.

Kolodny, Samuel, Rutherford, N. Micci, Carlstadt, and N. Krueger, assignors to East Rutherford Syringes, Inc., East Rutherford, N. J. Manufacturing glass syringes with interchangeable pistons and barrels. 2,641,093, June 9.

Kopp, Philip E., Youngstown, Ohio. Cutting machine for extruded clay products. 2,641,042, June 9.

Kork-N-Seal Limited, assignee: *See*—
Steuart, James N.

Kozak, Frank J., Yankton, S. Dak. Bracket device. 2,641,429, June 9.

Kraft Foods Company, assignee: *See*—
Kraft, John H.

Kraft, John H., assignor to Kraft Foods Company, Chicago, Ill. Manufacture of soft surface cured cheese. 2,641,545, June 9.

Kramcsak, Michael, Jr., assignor to The Bassick Company, Bridgeport, Conn. Caster glide. 2,641,016, June 9.

Krapp, John T., Port Washington, N. Y. Coupling device with spring pressed tighteners. 2,641,490, June 9.

Krasnov, Fannie K., Melrose Park, Pa. Studio couch slip cover. 2,641,001, June 9.

Kratzl, Karl, and E. Kvasnicka, Vienna, assignors to Osterreichische Stickstoffwerke Aktiengesellschaft, Linz (Donau), Austria. Vanillic acid diethylamide. 2,641,612, June 9.

Krejci, Joseph C., Phillips, Tex., assignor to Phillips Petroleum Company. Carbon black furnace and making carbon black. 2,641,534, June 9.

Kress, Richard G., Los Angeles, assignor to Extruders, Inc., Culver City, Calif. Manufacturing plastic film. 2,641,022, June 9.

Krieger, Alvin W., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,641,663, June 9.

Krogh, Jens I., Alpharetta, assignor of one-half to B. Williams, Atlanta, Ga. Picture hanger. 2,641,427, June 9.

Krohn, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Swivel connection between windshield wiper blade unit and arm. 2,641,007, June 9.

Krueger, Nicholas: *See*—
Kolodny, Samuel, Micci, and Krueger.

Kupchik, George J., assignee: *See*—
Douvan, Boris.

Kvasnicka, Erich: *See*—
Kratzl, Karl, and Kvasnicka.

Labin, Emile, New York, S. Frankel, Forest Hills, and M. Silver, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Local transmitter frequency control circuit. 2,641,693, June 9.

Labino, Dominick, Maumee, assignor to Glass Fibers, Inc., Waterville, Ohio. Apparatus and method for mixing molten glass. 2,641,454, June 9.

La Marquise Footwear, Inc., assignee: *See*—
Nappi, Joseph.

La Marre, Roger R., assignor to Aeroquip Corporation, Jackson, Mich. Flareless rigid tube end fitting. 2,641,487, June 9.

Lampe, Robert C.: *See*—
Lofgren, Gustaf E., Lampe, and Ferraris.

Lamversie, John: *See*—
Gallagher, Samuel D., and Lamversie.

Lang, Walter S., Pittsburgh, and L. R. Robinson, Mount Lebanon, assignors to Pittsburgh Pipe Cleaner Company, Pittsburgh, Pa. Rotary cutter device for pipe cleaners. 2,641,010, June 9.

Langaunet, Joseph C.: *See*—
Born, William F., and Langaunet.

Langlykke, Asger F.: *See*—
Periman, David, and Langlykke.

Laperouse, Edward J., assignee: *See*—
Freeman, Lawson J., Jr.

Larocco, Michael J., Berkeley, Calif., assignor to Motorola, Inc., Chicago, Ill. Thermal switch. 2,641,668, June 9.

Larson, Kenneth R., Des Plaines, Ill. Torsion weighing device. 2,641,460, June 9.

Laupman, Robert R.: *See*—
Heijne den Bak, Willem, and Laupman.

Lawrence, Franklin L., Tulsa, Okla., assignor to Standard Oil Development Company. Time break recording in seismic prospecting. 2,641,749, June 9.

Lawson, Gottfrid C., Cleveland, Ohio. Reduction drive useful for Venetian blinds. 2,641,145, June 9.

Leary, Robert F., Cranford, N. J., assignor to Standard Oil Development Company. Production of clear transparent polymers. 2,641,595, June 9.

Lee, Luther E., Takoma Park, Md. Power-operated toolholder. 2,641,151, June 9.

Leeberg, Edward, Roselle, N. J. Means for positioning and registering printing members on cylinders of rotary presses. 2,641,181, June 9.

Lefkowitz, Irving: *See*—
Brown, Eugene H. C., and Lefkowitz.

Leistner, William E., and O. H. Knoepke, Brooklyn, N. Y., assignors to Argus Chemical Laboratory, Inc. Halogen containing resin stabilized with an organo tin compound. 2,641,588, June 9.

Leistner, William E., Brooklyn, and A. C. Hecker, Richmond Hill, N. Y., assignors to Argus Chemical Laboratory, Inc. Organic derivatives of tetravalent tin. 2,641,596, June 9.

Le Maistre, John W., and I. W. Grote, assignors to The Chattanooga Medicine Company, Chattanooga, Tenn. Aluminum salts of dibasic amino acids. 2,641,604, June 9.

Leonaitis, Leonard L., assignor to Abbott Laboratories, North Chicago, Ill. Inhaler. 2,641,255, June 9.

Lerman, Monroe A., Sunnyside, N. Y. Foldable wheel chair. 2,641,306, June 9.

Leslie, Deltan L., Birmingham, and R. H. Mustonen, Detroit, assignors to The Gear Grinding Machine Company, Hamtramck, Mich. Machine for fastening end portions of prismatic bodies. 2,641,090, June 9.

Leslie, James D., Detroit, and C. H. Schamel, Royal Oak, assignors to General Motors Corporation, Detroit, Mich. Door lock. 2,641,405, June 9.

Leutz, Koerner E., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Gas purification. 2,641,526, June 9.

Leutz, Koerner E., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Recovery of sulfur from gases. 2,641,527, June 9.

Leutz, Koerner E., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Removal of objectionable sulfur compounds from mineral oil distillates. 2,641,571, June 9.

Le Valley, John, Painted Post, assignor to Ingersoll-Rand Company, New York, N. Y. Fluid compressor unit. 2,641,405, June 9.

Leveke, Chester I., Des Moines, Iowa. Endless tread for vehicles. 2,641,512, June 9.

Levine, David I., Swampscott, assignor to Spring Unit Development Co., Lynn, Mass. Spring coil for cushions, mattresses, and the like. 2,641,758, June 9.

Levine, Irving, Jersey City, N. J. Priming device for starting engines. 2,641,240, June 9.

Levy, Maurice M., assignor to The General Electric Company Limited, London, England. Electrical pulse code signaling system. 2,641,740, June 9.

Levy, Sidney E., White Plains, and A. B. Cohen, Bronx, assignors to University Loudspeakers, Inc., White Plains, N. Y. Loud-speaker diaphragm with transversely arched stiffener means. 2,641,329, June 9.

Lewis, Benjamin F., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mobile radio telephone system. 2,641,692, June 9.

Lewis, David C., Chicago, Ill. Safety cover plate for flush type electric wall receptacles. 2,641,627, June 9.

Lewis, G. B., Company, assignee: *See*—
Erdmann, Otto.

Lewis, Hamilton, Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Azeotropic refrigerant composition of 1,1-difluoroethane and monochloropentafluoroethane. 2,641,580, June 9.

Lewis, Reed, Pittsburgh, Pa., assignor to Crucible Steel Corporation of America, New York, N. Y. Bessemer converter. 2,641,401, June 9.

Leypold, Dieter, and H. Rudolph, Munich and H. Jurgens, Munich-Solln, assignors to Siemens & Halske, Aktiengesellschaft, Munich, Germany. Frequency control for telegraph receivers. 2,641,650, June 9.

Libois, Louis J.: *See*—
Gloess, Paul F. M., and Libois.

Lies, William J., Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Dielectric material. 2,641,552, June 9.

Lijempf, N. V., assignee: *See*—
De Vietter, Robbert.

Lilley, John W., Ferndale, assignor of fifty-five per cent to M. J. Rasso, Detroit, Mich. Combined switch and fastener. 2,641,662, June 9.

Lillie, Scott W.: *See*—
Stoner, Francis E., and Lillie.

Lindberg, Paul O., Willoughby, assignor to Lindberg Trust, Cleveland, Ohio. Gear pump. 2,641,192, June 9.

Lindberg Trust, assignee: *See*—
Lindberg, Paul G.

Lindseth, Clinton O.: *See*—
Seal, Robert K. F., and Lindseth.

Lines, Albert W., Stratford-on-Avon, assignor, by mesne assignments, to English Electric Valve Company Limited, London, England. Wave propagating electron discharge device. 2,641,731, June 9.

Linn, Daisy A., trustee, assignee: *See*—
Linn, Frank F.

Linn, Frank F., Venice, Calif., assignor, by mesne assignments, to D. A. Linn and J. B. Long, as trustees. Vehicle axle. 2,641,464, June 9.

Lionel Corporation, The, assignee: *See*—
Bonanno, Joseph L.

Lippert, Hanns, and E. Hepperle, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Buffer mechanism for automatic firearms with breech mechanism locked by inertia. 2,641,163, June 9.

Lipton, Henry, Chicago, Ill. Making prewelt shoes. 2,641,006, June 9.

List, Enrique, assignor to ITEM Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Sanding, scraping, and polishing machine. 2,641,721, June 9.

Little, Arthur D., Inc., assignee: *See*—
King, Gilbert W.

Little, Ernest L., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carbon monoxide copolymers and a catalytic process for their preparation. 2,641,590, June 9.

Litton, Charles V., Redwood City, Calif. Nonemissive electrode and making. 2,641,555, June 9.

Lockett, John R., Marietta, Ohio. Delayed-action detonator for firing explosives. 2,641,185, June 9.

Loeffler, John E., assignor to Thornhill-Craver Company, Houston, Tex. Header. 2,641,284, June 9.

Lofgren, Gustaf E., Riverside, R. C. Lampe, Stamford, and J. T. Ferraris, Cos Cob, assignors to Electrolux Corporation, Old Greenwich, Conn. Vacuum cleaner. 2,641,330, June 9.

Long, John B., trustee, assignee: *See*—
Linn, Frank F.

Lord Manufacturing Company, assignee: *See*—
Henshaw, Richard C.

Loritsch, John A.: *See*—
Nordlander, Birger W., and Loritsch.

Lovell, Clarence A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Linear rectifier. 2,641,695, June 9.

Lovick, John B., assignor to Filtex Corporation, Los Angeles, Calif. Nap deflector and valve control for vacuum cleaner nozzles. 2,641,015, June 9.

Lowe, Lyall L., Sioux City, Iowa. Furnace firing door for entrapping and releasing escape gases. 2,641,209, June 9.

Lowe, William F., Beechhurst, N. Y. Netmaking and gauging tool. 2,641,155, June 9.

Lowey, Roy E., Jr.: *See*—
McCleary, Jason L., and Lowey.

Lowthers, Frank J., Boston, Mass. Soap container and dispenser. 2,641,506, June 9.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Optical record reading device. 2,641,714, June 9.

Lummus Company, The, assignee: *See*—
Mekler, Valentine, Bogart, Schauble, and Palchik.

Lund, Alvin O., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator control system. 2,641,337, June 9.

Lundeen, Carl V., Hollywood, Ill. Spray gun strainer. 2,641,365, June 9.

Lynch, Edward E.: *See*—
Hyer, Donald R., and Lynch.

MacGregor, Joseph: *See*—
MacGregor, Robert, and J.

MacGregor, Robert, and J., Whitley Bay, England. Steel hatch cover. 2,641,214, June 9.

Machine Tool Works Oerlikon Administration Company, assignee: *See*—
Apothéloz, Robert.

Macnab, Ira P.: *See*—
Montgomery, Seton J., and Macnab.

Magic Chef, Inc., assignee: *See*—
Brodbeck, Aimer H.

Magnesium Elektron Limited, assignee: *See*—
Higgins, William F., and Wilkinson.

Maher, Mildred V., Jamaica, N. Y. Foldable clothesrack for ironing boards and the like. 2,641,072, June 9.

Maher, William W., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Can testing head adaptable to various sizes of cans. 2,641,120, June 9.

Maier, Michael J., assignor to Malleable Iron Range Company, Beaver Dam, Wis. Combination range. 2,641,244, June 9.

Major, Joseph W., Painesville, Ohio. Order indicator. 2,641,073, June 9.

Malleable Iron Range Company, assignee: *See*—
Maier, Michael J.

Mallory, P. R., & Co., Inc., assignee: *See*—
Puerner, George O., Aust, and Tulauskas.

Manning, Maxwell & Moore, Incorporated, assignee: *See*—
Eplett, Albert D., and Hopkins.

Mansfield, Warren M., Glendale, Calif., assignor, by mesne assignments, to Cutter Corporation. Hair trimmer. 2,641,055, June 9.

Mansfield, Wilfred P., Slough, assignor to Sir W. G. Armstrong Whitworth & Company (Engineers) Limited, London, England. Means for actuating valves and other reciprocating parts. 2,641,236, June 9.

"Manufacture de c/c Michelin," assignee: *See*—
Bourdon, Pierre M.

Marco, John, Wilmington, Del. Machine for the continuous application of foam rubber cushioning to a carpet. 2,641,296, June 9.

Marihart, Donald J., Carnation, Wash. Phase comparison electronic relay protective system. 2,641,634, June 9.

Marman Products Company, Inc., assignee: *See*—
Christophersen, Clarence E.

Marquardt Aircraft Company, assignee: *See*—
Drake, John A.

Marsden, James H.: *See*—
Marsden, Morris B., Jr., and J. H.

Marsden, Morris B., Jr., and J. H., Broadview, Ill. Ratchet wrench. 2,641,136, June 9.

Martens, Ernest J., St. Louis, Mo. Drapery pleater. 2,641,315, June 9.

Martin, Clifford M., Hartsel, Colo. Form for molding concrete walls. 2,641,043, June 9.

Martin, Frank A., Akron, and K. R. Warburton, assignors to The Hoover Company, North Canton, Ohio. Hose making machine. 2,641,300, June 9.

Martin, Frank A., Akron, and K. R. Warburton, assignors to The Hoover Company, North Canton, Ohio. Making flexible hose for suction cleaners. 2,641,302, June 9.

Martin, Glenn L., Company, The, assignee: *See*—
Bennett, James H., Jr.

Martone, Thomas A., Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Adhesive compositions, including an amylaceous material and a triazone. 2,641,584, June 9.

Mason, Robert F., Magee, Miss. Welder's flux pot. 2,641,382, June 9.

Mason, Russell I., New London, J. F. Ripken, Waterford, and H. F. Bernier, Jr., Danielson, Conn., assignors to the United States of America as represented by the Secretary of the Navy. Hydrophone casing. 2,641,731, June 9.

Mast, Aquila D., Lancaster, Pa. Harvester equipment and pneumatic method of loading and unloading same. 2,641,097, June 9.

Mateer, George D., Ardmore, Pa. Universal filler with hopper and counter mechanism controlled auger feeder therein. 2,641,384, June 9.

Mathieson Chemical Corporation, assignee: *See*—
Audoynaud, Max L.
Perlman, David, and Langlykke.

Maurer, Edwin R., and J. D. Caton, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission and drive control therefor. 2,641,140, June 9.

May & Baker Limited, assignee: *See*—
Barber, Harry J.

Mayhew, David D.: *See*—
Hedquist, Milton T., Harroun, Mayhew, Van De Sampel, and Whalen.

Mazee, Willem M., and A. B. Swart, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif. Wax refining process. 2,641,569, June 9.

McBean, Douglas M., Rochester, assignor, by mesne assignments, to Carter Products, Inc., New York, N. Y. Charging liquid products and volatile propellants into pressure containers. 2,641,399, June 9.

McCleary, Jason L., and R. E. Lowey, Jr., Mount Vernon, Ohio, assignors to Shellmar Products Corporation, Chicago, Ill. Apparatus for and methods of aligning webs for lamination. 2,641,416, June 9.

McClure, Milton B., Atlanta, Ga. Ladder work platform. 2,641,511, June 9.

McCormack, Foster D., International Falls, assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn. Thickness indicator. 2,641,058, June 9.

McCreary, Ralph L.: *See*—
Harris, Donald B., and McCreary.

McGraw Electric Company, assignee: *See*—
Willman, Philip E.

McGregor, George F., assignor of fifty per cent to W. E. T. Ryan, Toronto, Ontario, Canada. Device for admixing a cleansing agent, with a stream of fluid. 2,641,507, June 9.

McHale, Clifford B., and E. H. Janssen, Torrington, Wyo.; said Janssen assignor to said McHale. Weighing apparatus. 2,641,459, June 9.

McKenna, James A., San Francisco, Calif. Distributor stabilizer. 2,641,660, June 9.

McKenna, Philip M., Greensburg, assignor to Kennametal Inc., Latrobe, Pa. Induction heating unit. 2,641,682, June 9.

McKinney, James F., and A. E. Miller, assignors to Farm Appliance Corporation, Aurora, Ill. Seat support. 2,641,307, June 9.

McLaughlin Gormley King Company, assignee: *See*—
Moore, Joseph B.

McLeish, Archibald J., Morrisville, Pa. Track switch. 2,641,600, June 9.

McMahon, Bernard F., Clayton, Mo. Combination basin and utility space bathroom fixture. 2,641,519, June 9.

McRobert, Leon R.: *See*—
Reynolds, Nelson E., and McRobert.

Mead Aviation Equipment Company, assignee: *See*—
Moran, Harold J.

Meadows, Ernest D., assignors to Meadows Manufacturing Company, Atlanta, Ga. Pulley. 2,641,517, June 9.

Meadows, James L., R. H. Howell, A. J. Startz, and O. H. Miller, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Dethloilizing hydrocarbons. 2,641,572, June 9.

Meadows Manufacturing Company, assignee: *See*—
Meadows, Ernest D.

Mellstrup, Emil E., Winston-Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y. Magnetic holding fixture for soldering terminals. 2,641,212, June 9.

Meisel, Murray A.: *See*—
Secofsky, Abraham, Meisel, and Zalman.

Meister, Juan B., and M. N. Stern, Mexico City, Mexico. Reversible fabric. 2,641,045, June 9.

Mekler, Valentine, Jackson Heights, M. J. P. Bogart, Mamaroneck, O. C. Schauble, Mount Kisco, and E. H. Palchik, Forest Hills, assignors to the Lummus Company, New York, N. Y. Heater. 2,641,234, June 9.

Merck & Co., Inc., assignee: *See*—
Rogers, Edward F., and Brown.

Merrifield, John B., Ellisville, assignor of two-thirds to J. B. Fuller, Laurel, Miss. Bark-removing apparatus having log-rotating and log-advancing peeler heads. 2,641,289, June 9.

Mertens, Raymond O.: *See*—
Clemens, Ogden A., Mertens, and Walckhof.

Mertzweiller, Joseph K., Baton Rouge, and P. T. Parker, East Baton Rouge, La., assignors to Standard Oil Development Company. Catalytic synthesis of alcohols. 2,641,613, June 9.

Meunier, Paul L., Wilmington, Del., and R. J. Summerill, Westville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Printing textile fabric. 2,641,554, June 9.

Meyers, Cornelius W., Portland, Oreg. Collapsible pouring spout. 2,641,386, June 9.

Micci, Nicholas: *See*—
Kolodny, Samuel, Micci, and Krueger.

Mihalakis, Agis I., assignor to Glowmeter Corporation, Buffalo, N. Y. Vehicle indicator optical projection device. 2,641,159, June 9.

Mihalakis, Agis I., Battle Creek, Mich., assignor to Glowmeter Corporation, Buffalo, N. Y. Vehicle indicator optical projection device. 2,641,160, June 9.

Miller, Arthur E.: *See*—
McKinney, James F., and Miller.

Miller, George E.: *See*—
Kirk, John B., and Miller.

Miller, Gordon H.: *See*—
Meadows, James L., Howell, Startz, and Miller.

Miller, Joe W., Port Orange, Fla. Fishing reel. 2,641,418, June 9.

Miller, John E.: *See*—
Wolfe, Charles M., and Miller.

Millermaster, Ralph A.: *See*—
Koenig, Martin F., and Millermaster.

Miner, W. H., Inc., assignee: *See*—
Mulcahy, Harry W.
Withall, William E.

Minkov, Israel: *See*—
Raphaell, Chaim, and Minkov.

Minkowitz, George, New York, N. Y. Automatic bar tacking control mechanism for buttonhole sewing machines. 2,641,211, June 9.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Knutson, James B.
Shivers, Paul F.

Minnesota and Ontario Paper Company, assignee: *See*—
McCormack, Foster D.

Mohling, Gunther, Loudonville, and W. W. Dyrkacz, Newtonville, N. Y., assignors to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Ferrous base chromium-nickel-titanium alloy. 2,641,340, June 9.

Monroe Calculating Machine Company, assignee: *See*—
Ollwa, Walter S.

Montgomery, Seton J., and I. P. Macnab, Halifax, Nova Scotia, assignors to Wave Power Development Limited, Truro, Nova Scotia, Canada. Means for harnessing wave power. 2,641,108, June 9.

Montgomery, William E.: *See*—
Sampson, Robert W., and Montgomery.

Moon, James, Altadena, assignor to Signal Oil and Gas Company, Los Angeles, Calif. Method and apparatus for drilling boreholes. 2,641,444, June 9.

Moore, George E., Detroit, Mich. Fishing tackle box. 2,641,520, June 9.

Moore, Henry S., assignor of one-half to F. M. Boone, Clarksdale, Miss. Lure with improved weed guard. 2,641,081, June 9.

Moore, Joseph B., Edina, assignor to McLaughlin Gormley King Company, Minneapolis, Minn. Insecticidal and acaricidal composition comprising propylene glycol and alkali ammonium sulfo sulfide. 2,641,563, June 9.

Moore, Joseph M., Bremerton, Wash. Telescope mounting. 2,641,057, June 9.

Moore, Thomas, London, England, assignor to International Standard Electric Corporation, New York, N. Y. Timing device. 2,641,701, June 9.

Moran, Harold J., West Pittston, Pa., assignor to Mead Aviation Equipment Company, Trenton, N. J. Variable diameter parachute canopy. 2,641,424, June 9.

Moriarty, Benedict E., Kenosha, Wis. Toilet paper holder. 2,641,415, June 9.

Morley, Earle V., Oakland, Calif. High-powered lock nut. 2,641,293, June 9.

Morrel, Victor M., West Chester, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Continuous heat-sealing apparatus. 2,641,166, June 9.

Morris, Frank A., Rochester, N. Y., assignor to Stromberg-Carlson Company. Revertive call circuits. 2,641,652, June 9.

Morrone Manufacturing Co., Inc., assignee: *See*—
Crory, Frederick J.

Motch, Edwin R., Jr., Shaker Heights, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio. Stock feeding mechanism. 2,641,046, June 9.

Motch & Merryweather Machinery Company, The, assignee: *See*—
Motch, Edwin R., Jr.

Motorola, Inc., assignee: *See*—
Larocco, Michael J.
Wallin, Gus W.

Monassalli, Alexis J. M., A. Soubiran, and P. Chabrier, Paris, France. Iodomethylate compounds of the dimethyl xanthine series. 2,641,598, June 9.

Mueller Co., assignee: *See*—
Mueller, Frank H., and Bowan.

Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Replacement T or fitting. 2,641,491, June 9.

Muffly, Glenn, Springfield, Ohio. Multitemperature refrigerating system. 2,641,109, June 9.

Muffly, Glenn, Springfield, Ohio. Refrigerator-cabinet defrosting. 2,641,112, June 9.

Mulcahy, Harry W., assignor to W. H. Miner, Inc., Chicago, Ill. Friction snubber for railway car truck springs. 2,641,463, June 9.

Mulcey, Paul A., Dallas, J. W. Eckerd, Shavertown, and E. I. Small, Scranton, assignors to Anthracite Equipment Corporation, Wilkes-Barre, Pa. Crossfeed mechanism. 2,641,369, June 9.

Mullins Manufacturing Corporation, assignee: *See*—
Smith, Harold O.

Munsingwear, Inc., assignee: *See*—
Rutledge, George E.

Murphy, Howard J., Lynnfield, Mass. Racing game device. 2,641,472, June 9.

Musebeck, George E., assignor to Musebeck Shoe Company, Oconomowoc, Wis. Composite innersole construction. 2,641,069, June 9.

Musebeck Shoe Company, assignee: *See*—
Musebeck, George E.

Mustonen, Reino H.: *See*—
Leslie, Deltan L., and Mustonen.

Myre, Clifford R., Paynesville, Minn. Adjustable bed lamp. 2,640,998, June 9.

Nasley Magen Limited, assignee: *See*—
Raphaell, Chaim, and Minkov.

Nappi, Joseph, Brooklyn, N. Y., assignor to La Marquise Footwear, Inc. Shoe vamp construction. 2,641,067, June 9.

National Cash Register Company, The, assignee: *See*—
Green, Barrett K.

National Gypsum Company, assignee: *See*—
Teale, Robert R.

National Lead Company, assignee: *See*—
Urban, Stephen F., and Blumenthal.

National Lock Company, assignee: *See*—
Burke, William O.

National Research Development Corporation, assignee: *See*—
Clegg, John E.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Elmer, William B.
Hisserich, Charles A., Henderson, and Wyckoff.
Mason, Russell L., Ripken, and Bernier.
Seal, Robert K-F., and Lindseth.
Toth, Dolan H.

Naymik, Nicholas M., Cleveland, Ohio. Spotlight and flare for automotive vehicles. 2,641,752, June 9.

Ne Casek, Joseph A., Chicago, Ill. Cattle shipper's stanchion. 2,641,222, June 9.

Neely, William H.: *See*—
Bielak, Frank A., and Neely.
Blumensaadt, Svend O., Gutzman, and Neely.

Nelson, William T.: *See*—
Cines, Martin R., and Nelson.

Nelsson, Nels, assignor to United States Gypsum Company, Chicago, Ill. Wall construction and clip therefor. 2,641,035, June 9.

Newcomb, Delmar C.: *See*—
Rowley, Russell A., and Newcomb.

New Holland Machine Division of The Sperry Corporation, The, assignee: *See*—
Redrow, Allan R.

New Products Corporation, assignee: *See*—
Banker, Oscar H.

Nilson, Arne, and R. F. Onsrud, assignors to Onsrud Machine Works, Inc., Chicago, Ill. Turbine governor. 2,641,441, June 9.

Noddings, Charles R., G. W. Waldron, and J. W. Corey, assignors to The Dow Chemical Company, Midland, Mich. Production of diolefins from olefins. 2,641,619, June 9.

Nordlander, Birger W., Schenectady, and J. A. Loritsch, Scotia, N. Y., assignors to General Electric Company. Thixotropic compositions. 2,641,586, June 9.

Nordlander, Birger W., and R. E. Burnett, Schenectady, N. Y., assignors to General Electric Company. Thixotropic compositions. 2,641,587, June 9.

North American Aviation, Inc., assignee: *See*—
Gilvarry, John J., and Rutland.
Waugh, Charles C.

Wilcox, Doyle E.

Northrop Aircraft, Inc., assignee: *See*—
Parrish, Norman C.

Oberlin, Carl, Mansfield, Ohio. Apparatus for storing hay. 2,641,174, June 9.

Ochsner, Cyrill, St. Gallen, Switzerland. Calculating machine with rack drive. 2,641,410, June 9.

Offutt, John T., assignor of one-fourth to R. W. Gregg, Parkville, Mo. Combination chronometer and sound reproducing instrument. 2,641,654, June 9.

O'Halloran, Rosemary, Roselle Park, N. J., assignor to Standard Oil Development Company. Lithium-calcium lubricating grease composition. 2,641,577, June 9.

Oilgear Company, The, assignee: *See*—
Ferris, Walter.

Olshel, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Seat for motor vehicles. 2,641,303, June 9.

Okeon, Stanley C.: *See*—
Jones, R. Lee G., and Okeon.

Olin Industries, Inc., assignee: *See*—
Winckler, Gunnar A. F., and Reinhardt.

Oliver Instrument Company, assignee: *See*—
Harrison, Clifford L.

Ollwa, Walter S., assignor to Monroe Calculating Machine Company, Orange, N. J. Photoelectric keyboard. 2,641,753, June 9.

Onsrud Machine Works, Inc., assignee: *See*—
Nilson, Arne, and Onsrud.

Onsrud, Rudolph F.: *See*—
Nilson, Arne, and Onsrud.

Orbell, Juliana, assignee: *See*—
Gano, Joseph J.

Orcutt, Dale C., and C. J. Dry, Athens, Ohio. Power transmission mechanism. 2,641,137, June 9.

Orenge, Torry H., Jersey City, N. J. Overall with strap arrangement. 2,640,990, June 9.

Oroquieta, Jesús V., Buenos Aires, Argentina. Cylinder lock with key-way obstructing means. 2,641,125, June 9.

Orr, Howard S., and A. Teplitz, Pittsburgh, Pa., assignors to United States Steel Corporation. Joining thin metallic sheets. 2,641,674, June 9.

Ostberg, Erik, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Support. 2,641,425, June 9.

Oster, Stanley E., Cleveland, Ohio. Audible signal and detachable securing means for fishing rods. 2,641,079, June 9.

Osterreichische Stickstoffwerke Aktiengesellschaft, assignee: *See*—
Kratzl, Karl, and Kvasnicka.

Otto, Carl, Manhasset, N. Y. Coke oven buckstay structure. 2,641,575, June 9.

Otvos, John W.: *See*—
Pompeo, Domenick J., and Otvos.

Oullanoff, George, Allestree, Derby, and C. A. Davis, Barrow-on-Soar, near Loughborough, assignors to Rolls-Royce Limited, Derby, England. Exhaust system for gas turbine engines in aircraft. 2,641,422, June 9.

Pabst Brewing Company, assignee: *See*—
Jones, Lester.

Packard, Henry S., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Tabular calculator. 2,641,406, June 9.

Pagell, Alfred H., Brockton, Mass. Festoon drier. 2,641,469, June 9.

Pakkala, Matti H., and F. J. Phillips, Pittsburgh, Pa., assignors to United States Steel Corporation. Cleaning and descaling ferrous articles and a bath therefor. 2,641,559, June 9.

Palchik, Edward H.: *See*—
Mekler, Valentine, Bogart, Schauble, and Palchik.

Panagrossi, Ahmed, Hamden, assignor to The Connecticut Hard Rubber Company, New Haven, Conn. Making fin stiffeners for engine cylinders. 2,641,924, June 9.

Panepinto Mfg. Corp., assignee: *See*—
Catalano, Peter P., J. P., and F. P.

Pantchechnikoff, Jacques I., Princeton, N. J., assignor to Radio Corporation of America. Line-contact transistor. 2,641,638, June 9.

Park, Robert H., Pluckemin, N. J., R. Weller, Pullman, Wash., A. G. Russell, Arlington, Va., and S. W. Booth, Hyattsville, Md. Streamline depth charge. 2,641,184, June 9.

Parker, Leland C., Elmira, N. Y. Flavoring meat products. 2,641,544, June 9.

Parker, Paul T.: *See*—
Mertzweiller, Joseph K., and Parker.

Parr, Bernard A., East Sheen, London, England. Luggage carrier for vehicles. 2,641,396, June 9.

Parrish, Norman C., Redondo Beach, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Electrical conductor. 2,641,672, June 9.

Parziale, Joseph, and R. P. White, Cleveland, Ohio. Dispensing caps for bottles. 2,641,376, June 9.

Pasold, Ingo, Toronto, Ontario, Canada. Machine for cutting strips of textile fabrics. 2,641,317, June 9.

Patterson, Clyde R., Riverside, Calif. Writing implement with yieldably supported scribing element. 2,641,226, June 9.

Perlman, David, Princeton, and A. F. Langlykke, Highland Park, N. J., assignors to Mathieson Chemical Corporation, New York, N. Y. Producing penicillins. 2,641,567, June 9.

Pessina, Joseph G., assignor to Emro Manufacturing Company, Incorporated, St. Louis, Mo. Fluorescent hand lamp construction. 2,641,685, June 9.

Peters, Arthur C., Midlothian, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Soldering lug. 2,641,748, June 9.

Petersen, Christian, assignor to Petersen Mfg. Co., Inc., De Witt, Nebr. Gripping tool. 2,641,140, June 9.

Petersen Mfg. Co., Inc., assignee: *See*—
Petersen, Christian.

Petersen, Simon J.: *See*—
Hoffman, George L., and Petersen.

Peterson, Glen, Tulsa, Okla, assignor to Phillips Petroleum Company. Crystal controlled modulated oscillator. 2,641,741, June 9.

Petres, James C., assignor to Wright Machinery Company, Durham, N. C. Material discharge means. 2,641,435, June 9.

Petrie, Peter S.: *See*—
Britton, Edgar C., and Petrie.

Phares, Thomas E.: *See*—
Chambers, John E., and Phares.

Pherson, Raymond L., Boulder, Colo. Loading device for dump trucks and the like. 2,641,379, June 9.

Phillips, Freeman J.: *See*—
Pakkala, Matti H., and Phillips.

Phillips, Harry A., Chicago, Ill. Pilot controlled multiple valve assembly. 2,641,281, June 9.

Phillips Manufacturing Company, Inc., assignee: *See*—
Grinde, George H., and Wolf.

Phillips Petroleum Company, assignee: *See*—
Adams, Max M.
Bearer, Louis C.
Cines, Martin R.
Cines, Martin R., and Nelson.
Krejci, Joseph C.
Peterson, Glen.

Pierce, Gaylord L., San Diego, Calif. Sewer pipe cleaning apparatus. 2,641,009, June 9.

Pierce, John B., Foundation, assignee: *See*—
Da Fano, Ettore.

Pierce, Robert H., Palatine, Ill., assignor to Radio Corporation of America. Wave shaping circuit. 2,641,649, June 9.

Pike, Robert D., Greenwich, Conn. Method and system for refrigeration of railroad cars. 2,641,110, June 9.

Pilot Manufacturing Company, assignee: *See*—
Gill, John B.

Pioneer Specialty Company, assignee: *See*—
Gosline, Frederick V.

Piquet, André: *See*—
Touraton, Emile, Piquet, and Dumousseau.

Pittsburgh-Des Moines Company, assignee: *See*—
Jackson, James O.

Pittsburgh Pipe Cleaner Company, assignee: *See*—
Lang, Walter S., and Robinson.

Platter, A. V.: *See*—
Corson, Bayard R., and Platter.

Pobatcong Hosiery Mills, Inc., assignee: *See*—
Wendt, Gustav C., and P. C.

Pohle, Eric, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Cathode insulator. 2,641,727, June 9.

Poirot, Eugene M., Lawrence County, Mo. Device which aerates water. 2,641,455, June 9.

Paitras, Edward J., Holliston, Mass. Pneumatic signaling. 2,641,689, June 9.

Pollen, Charles F., Winnetka, assignor to M. H. Detrick Company, Chicago, Ill. Furnace arch construction. 2,641,207, June 9.

Pompeo, Domenick J., Oakland, and J. W. Otvos, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Radiological gas analysis. 2,641,710, June 9.

Poole, Elbridge R., Booneville, Ind. Eyeglass glare shield attachment. 2,640,988, June 9.

Precision Apparatus Co., Inc., assignee: *See*—
Goldberger, Gerald N., and Robinson.

Preist, Donald H., Tiburon, and B. O. Ballou, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Radio-frequency transmission device. 2,641,657, June 9.

Preist, Donald H., Mill Valley, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Radio-frequency generator. 2,641,658, June 9.

Pressler, Ralph B., assignor to Bowser, Inc., Fort Wayne, Ind. Fluid proportioner. 2,641,271, June 9.

Price, William M., Towson, Md. Parallel twin-flex spring suspension for two-wheeled vehicles. 2,641,483, June 9.

Prismo Products, Inc., assignee: *See*—
Keleher, James J.

Proctor Electric Company, assignee: *See*—
Turner, Charles R. and P. G.

Productive Inventions, Inc., assignee: *See*—
Krohm, Fred A.

Publicker Industries Inc., assignee: *See*—
Beesch, Samuel C.

Puerner, George O., R. J. Aust, and L. Tulanakas, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Lateral timer switch. 2,641,661, June 9.

Pugh, James E., Jr.: *See*—
De Packh, David C., and Pugh.

Puiseux; Boulanger et Cie, assignee: *See*—
Bourdon, Pierre M.

Purvis, Joseph T.: *See*—
Comery, Peter D., and Purvis.

Pye, Harold C., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Ringer circuit using cold cathode tube. 2,641,653, June 9.

Quelly, Joseph R., Cranford, and S. A. Sankus, Bayonne, N. J., assignors to Standard Oil Development Company. Finishing of polyisobutylene. 2,641,620, June 9.

Quillinan, Michael J., New York, N. Y. Container. 2,641,292, June 9.

Quinn, Gerald S., Salem, and M. D. Betts, Rockport, assignors to Sylvania Electric Products Inc., Salem, Mass. Apparatus for shaping electric lamp mounts. 2,641,286, June 9.

Rachlin, Albert I.: *See*—
Goldberg, Moses W., and Rachlin.

Radio Corporation of America, assignee: *See*—
Artzt, Maurice.
Behrend, William L.
Carlson, Wendell L.
Pantchechnikoff, Jacques I.
Pierce, Robert H.
Slade, Bernard N.
Stott, Harold B.
Wentworth, John W.

Ramsel, Charles A.: *See*—
Risk, Norman E., and Ramsel.

Raphaell, Chaim, and I. Minkov, assignors to Naaley Magen Limited, Tel Aviv, Israel. Making platform sandals. 2,641,005, June 9.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Accessory system. 2,641,107, June 9.

Rauscher, Elbridge F., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Motor and transmission compartment for washing machines. 2,641,426, June 9.

Redrow, Allan R., assignor to The New Holland Machine Division of The Sperry Corporation, New Holland, Pa. Tooth means for side-delivery rake. 2,641,101, June 9.

Reed, George E., Pontiac, Mich. Garage door opener. 2,641,467, June 9.

Reflectone Corporation, The, assignee: *See*—
Simjian, Luther G.

Refrigeration Systems, Inc., assignee: *See*—
Brown, Daniel M.

Reinhardt, Otto K.: *See*—
Winckler, Gunnar A. F., and Reinhardt.

Reiter, Daniel L., New York, N. Y. End clamp for pocketbook handles. 2,641,036, June 9.

Remick, Walter L., assignor to Hydrotator Company, Evanston, Ill. Apparatus for separating mixed materials. 2,641,362, June 9.

Remington Arms Company, Inc., assignee: *See*—
Eccleston, Paul H.
Foote, Donald S., and Atwell.

Research Corporation, assignee: *See*—
Sloan, David H.

Reynolds Metals Company, assignee: *See*—
Snyder, Willard G.

Reynolds, Nelson E., and L. R. McRobert, Greeley, Colo., assignors to Harry Ferguson, Inc., Detroit, Mich. Beet topper. 2,641,099, June 9.

Rhoten, Carey M., Huntington Woods, assignor to Dearborn Motors Corporation, Highland Park, Mich. Heat-lifting and vibrating means for plow moldboards. 2,641,173, June 9.

Ricards, Harold A., Jr., Cranford, and B. M. Vanderbilt and E. Arundale, Westfield, N. J., assignors to Standard Oil Development Company. Sweetening petroleum oils. 2,641,570, June 9.

Richard, Amos B., assignee: *See*—
Adams, Mozel A.

Richmond, Paul P., Kansas City, Mo. Identification device. 2,641,074, June 9.

Rick, Clarence A.: *See*—
Austin, Leslie W., and Rick.

Riley, Richard C., Lake Grove, Oreg. Moving stairway. 2,641,351, June 9.

Ripken, John F.: *See*—
Mason, Russell I., Ripken, and Bernier.

Ripple, Melvin H., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner filter. 2,641,334, June 9.

Risk, Norman E., and C. A. Ramsel, assignors to Caterpillar Tractor Co., Peoria, Ill. Flexible clutch enclosure. 2,641,346, June 9.

Rives, Halcolm D., assignor to Swingspout Measure Company, Los Angeles, Calif. Controlled fluid dispensing container. 2,641,385, June 9.

Robinson, John C., Pittsfield, Mass., assignor to General Electric Company. Magnetic sheet material provided with a separator coating and making same. 2,641,556, June 9.

Robinson, Joseph D., Winter Park, and H. A. Simpson, Oviedo, Fla., said Simpson assignor to said Robinson. Heater for fields, orchards, and the like. 2,641,085, June 9.

Robinson, Lawrence R.: *See*—
Lang, Walter S., and Robinson.

Robinson, Mayes R., assignor to Air-O Fan Products Corporation, Gilroy, Calif. Agricultural spraying machine. 2,641,504, June 9.

Robinson, Victor I.: *See*—
Goldberger, Gerald N., and Robinson.

Roby, Sheldon S., Meriden, assignor to The Stanley Works, New Britain, Conn. Control means for automatically operated doors. 2,641,466, June 9.

Roe, A. V., Canada Limited, assignee: *See*—
Comery, Peter D., and Purvis.

Rogers, Edward F., Middletown, and H. D. Brown, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Halogenation products of 1,1-diphenyl-2,2-dimethyl-propane. 2,641,617, June 9.

Rogers, Edward F., Middletown, and H. D. Brown, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Hydrogenation of 1,1-diphenyl-2,2-dimethyl-propanol-1. 2,641,618, June 9.

Rolls-Royce Limited, assignee: *See*—
Oultanoff, George, and Davis.

Roosa, Vernon D., Ardsley, N. Y. Fuel pump. 2,641,238, June 9.

Roquet, Raymond J. C., Paris, France. Voltage controller. 2,641,739, June 9.

Ross, Hamilton M.: *See*—
Bankauf, William F., Herrmann, and Ross.

Rowley, Russell A., Binghamton, and D. C. Newcomb, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Record controlled calculating machine. 2,641,408, June 9.

Rudolph, Hans: *See*—
Leypold, Dieter, Rudolph, and Jurgens.

Ruhlson, Raymond L., Berkley Heights, and G. K. Teal, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Preparation of two-sided mosaic. 2,641,553, June 9.

Rumsey, Howard L., Buffalo, N. Y., and M. C. Abbott, Greenwood, Mass., assignors, by mesne assignments, to Sylvania Electric Products Inc., New York, N. Y. Wire reel for magnetic wire recorders. 2,641,420, June 9.

Runyan, John S.: *See*—
Whiting, David V., and Runyan.

Russell, Arthur G.: *See*—
Park, Robert H., Weller, Russell, and Booth.

Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Safety wheel for balers or the like. 2,641,116, June 9.

Rutland, David F.: *See*—
Gilvarry, John J., and Rutland.

Rutledge, George E., Chicago, Ill., assignor to Munsingwear, Inc. Undergarment. 2,641,257, June 9.

Rutledge, George E., Chicago, Ill., assignor to Munsingwear, Inc., Minneapolis, Minn. Undergarment. 2,641,258, June 9.

Ryan, W. E. T., assignee: *See*—
McGregor, George F.

Sachs, Carrol C., North Hollywood, and J. Bond, assignors to Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif. Photopolymerization process and compositions. 2,641,576, June 9.

St. Regis Paper Company, assignee: *See*—
Gramegna, Franco.

Sampson, Robert W., New York, N. Y., and W. E. Montgomery, Wilmington, Del., assignors to American Car and Foundry Company, New York, N. Y. Bed and seat structure. 2,641,201, June 9.

Samuelson, Wallace H. E., assignor to Selectronics, Inc., Carlisle, Pa. Mounting thickness shear mode quartz crystal oscillator plates. 2,641,718, June 9.

Sander, Howard H., Laramie, Wyo., assignor of one-half to N. Camenker, Duluth, Minn. Tool for replacing bottle caps and recrimping the caps in an airtight seal. 2,641,397, June 9.

Sanders, George R.: *See*—
Harris, Leonard W., Sanders, and Cassil.

Sanderson, Robert T., Fishkill, assignor to The Texas Company, New York, N. Y. Treatment of shale. 2,641,565, June 9.

Sandvikens Jernverks Aktiebolag, assignee: *See*—
Haglund, Didrik W., and Elstrom.

Sankus, Stanley A.: *See*—
Quelly, Joseph R., and Sankus.

Santo, Dominick C., Bristol, R. I., assignor of one-half to Worcester Moulded Plastics Company, Worcester, Mass. Razor blade dispenser. 2,641,358, June 9.

Saraceni, Guido F. L. N., Buenos Aires, Argentina. Planetary transmission. 2,641,143, June 9.

Saul, Maurice M., Evanston, Ill. Construction of street signs. 2,641,075, June 9.

Sauter, Harold F., Nutley, and J. J. Weinberger, Jr., Kearney, assignors to Hanlon & Goodman Co., Belleville, N. J. Brush having an internal anchor for securing the bristles within the ferrule. 2,641,014, June 9.

Seal, Robert K-F, Englewood, N. J., and C. O. Lindseth, Silva, N. Dak., assignors to the United States of America as represented by the Secretary of the Navy. Subminiature electron tube circuit structure. 2,641,635, June 9.

Schamel, Clyde H.: *See*—
Leslie, James D., and Schamel.

Schauble, Otto C.: *See*—
Mekler, Valentine, Bogart, Schauble, and Palchik.

Scheidt, Joseph, and L. A. Teegardin, Streator, Ill. Coin-wrapping device. 2,641,096, June 9.

Schill, Bernard J., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Wheel suspension. 2,641,510, June 9.

Schmertz, William E., Pittsburgh, Pa. Heat recovery apparatus. 2,641,456, June 9.

Schmid, Herman, and A. P. Hobush, assignors to Incoro, Inc., Kingston, N. Y. Automatic weigher. 2,641,436, June 9.

Schmidt, Charles E., Ocean Springs, Miss. Hydrostatic level. 2,641,061, June 9.

Schmidt, Frieda W., Tarrytown, N. Y. Massaging device. 2,641,256, June 9.

Schneider, Adolf G., assignor to Schneider Brothers Company, Muncie, Ind. Hydraulic-mechanical transmission. 2,641,144, June 9.

Schneider Brothers Company, assignee: *See*—
Schneider, Adolf G.

Schnell, Frederick W., Croton-on-Hudson, assignor to R. Hoe & Co., Inc., New York, N. Y. Machine drive. 2,641,141, June 9.

Schock, Richard U., Jr., Waukegan, and D. L. Tabern, Lake Bluff, assignors to Abbott Laboratories, North Chicago, Ill. Therapeutic compound and preparing the same. 2,641,609, June 9.

Schumacher, Frank A., Erie, Pa., assignor to General Electric Company. Freezer evaporator, including check valve in header. 2,641,113, June 9.

Schurr, Charles A., Euclid, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electronic limit control circuit. 2,641,697, June 9.

Schwartz, Morris, and W. Castedello, assignors to The Kalart Company Inc., Plainville, Conn. Moving mechanism for photographic range finders. 2,641,157, June 9.

Schwarz, Gerald L., Cleveland Heights, assignor to Air Controls, Inc., Cleveland, Ohio. Blower-filter unit. 2,641,404, June 9.

Scott & Williams, Inc., assignee: *See*—
Desmonds, Albert X.

Scovill Manufacturing Company, assignee: *See*—
Hedberg, Victor A., Jr.

Seagram, Joseph E., & Sons, Inc., assignee: *See*—
Brown, Eugene H. C., and Lefkowitz.
Unger, Earl D., Smith, and Wilkie.

Seale, Homer T., assignor to Homer T. Seale, Inc., Los Angeles, Calif. Convertible air hose coupling. 2,641,272, June 9.

Seale, Homer T., Inc., assignee: *See*—
Seale, Homer T.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.

Secofsky, Abraham, and M. A. Meisel, Brooklyn, and A. Zalman, Kew Gardens Hills, N. Y. Adjustable camera and spotlight support. 2,641,430, June 9.

Seidel, Robert A.: *See*—
Seidel, Walter T. and R. A.

Seidel, Walter T. and R. A., Baltimore, Md. Auxiliary floor for poultry houses. 2,641,224, June 9.

Selectronics, Inc., assignee: *See*—
Samuelson, Wallace H. E.

Sendel, Limited, assignee: *See*—
Elsden, Herbert E.

Sengebusch, Hans: *See*—
Graybill, Kenneth W., and Sengebusch.

Sensiper, Samuel, Cambridge, Mass., assignor to The Sperry Corporation, Great Neck, N. Y. Directional coupler. 2,641,648, June 9.

Shell Development Company, assignee: *See*—
Mazee, Willem M., and Swart.
Pompeo, Domenick J., and Otvos.

Shellmar Products Corporation, assignee: *See*—
McCleary, Jason L., and Lowey.

Shelverton, Fred, Brooklyn, N. Y. Foot-powered watercraft. 2,641,217, June 9.

Shenandoah Equipment Company, assignee: *See*—
Suter, Menno R.

Shepherd, William G., St. Paul, Minn., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device of the velocity variation type. 2,641,732, June 9.

Sheppard, William L., Romulus, Mich. Portable bed and housing structure. 2,640,999, June 9.

Sherbondy, Frank Y., San Antonio, Tex. Garment form retainer. 2,641,390, June 9.

Shinoda, Daniel S., Hayward, Calif. Gardenia support. 2,641,086, June 9.

Shive, John N., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor photoelectric device. 2,641,713, June 9.

Shivers, Paul F., Edina, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Surface thermostat. 2,641,667, June 9.

Shroff, Phiroze D.: *See*—
Frisch, Kurt C., and Shroff.

Shure Brothers, Incorporated, assignee: *See*—
Bauer, Benjamin B.

Sibinski, Victor H.: *See*—
Sibinski, Walter A. and V. H.

Sibinski, Walter A. and V. H., Weyerhaeuser, Wis. Fish stop for dams. 2,641,221, June 9.

Sichak, William: *See*—
Cohen, Nathaniel L., Goldstein, and Sichak.

Siebens, Norman H., Cedar Grove, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Changeover valve. 2,641,273, June 9.

Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Leypold, Dieter, Rudolph, and Jurgens.

Sigg, Joseph A., Pittsburgh, Pa. Screw driver. 2,641,478, June 9.

Signal Oil and Gas Company, assignee: *See*—
Moon, James.

Sikorra, Daniel J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric regulator responsive to phase difference of two currents. 2,641,738, June 9.

Silver, Martin: *See*—
Labin, Emile, Frankel, and Silver.

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Automatic depth control for agricultural implements. 2,641,172, June 9.

Silverstein, Samuel W., Passaic, N. J. Contact lens. 2,641,161, June 9.

Simjian, Luther G., Riverside, assignor to The Reflectone Corporation, Stamford, Conn. Mounting member for furniture and the like. 2,641,310, June 9.

Simmons, Lewis A., Maywood, Ill. Counter construction. 2,641,400, June 9.

Simpson, Henry A.: *See*—
Robinson, Joseph D., and Simpson.

Simpson, Herbert, Corporation, assignee: *See*—
Christensen, Alfred C.

Sinclair Refining Company, assignee: *See*—
Gring, John L.

Siper S. A., assignee: *See*—
D'Ogouville, François.

Sitzer, Philip, Irvington, N. J., assignor to Tung-Sol Electric Inc. Vane type thermal switch. 2,641,666, June 9.

Skelton, Russell R.: *See*—
Charles, T. Burr, and Skelton.

Skinner, Ralph L., Detroit, Mich. Oil-control means for slide valve internal-combustion engines. 2,641,241, June 9.

Slade, Bernard N., Morristown, N. J., assignor to Radio Corporation of America. Point electrode for semiconductor devices. 2,641,639, June 9.

Sloan, David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. Microwave device. 2,641,734, June 9.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Engine rocker arm mechanism. 2,641,235, June 9.

Small, Edward I.: *See*—
Mulcey, Paul A., Eckerd, and Small.

Smith, Harold O., assignor to Mullins Manufacturing Corporation, Salem, Ohio. Tub and top construction for dishwashers. 2,641,380, June 9.

Smith, Herachel O., Wallingford, T. L. Cantrell, Lansdowne, and E. E. Fisher, Yeadon, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Metal coating composition. 2,641,551, June 9.

Smith, Le R. A.: *See*—
Unger, Earl D., Smith, and Willkie.

Smith, Oliver R., Fort Worth, Tex. Pipe reconditioning machine. 2,641,008, June 9.

Smith, William H., Evanston, Ill. Garment hanger. 2,641,392, June 9.

Snow, Nell W., South Pasadena, Calif. Louver window and actuating mechanism. 2,641,465, June 9.

Snyder Oil Tool Corporation, assignee: *See*—
Snyder, Robert E.

Snyder, Robert E., Los Angeles, Calif., assignor to Snyder Oil Tool Corporation. Combined rotary and impact drill with fluid coupling. 2,641,445, June 9.

Snyder, Willard G., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Hinge joint. 2,641,018, June 9.

Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, assignee: *See*—
Touvay, Robert.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Chevalier, Pierre J.

Soffel, Robert O.: *See*—
Hoth, Daniel F., and Soffel.

Sohn, Allen O.: *See*—
Weber, Herbert H., and Sohn.

Solovioff, Nicholas N.: *See*—
Cowen, Lawrence, and Solovioff.

Sommar, Helen G.: *See*—
Chaney, David W., and Sommar.

Soubiran, André: *See*—
Moussaill, Alexis J. M., Soubiran, and Chabrier.

Soundscriber Corporation, The, assignee: *See*—
Balmer, Donald F.

Specialties Development Corporation, assignee: *See*—
Wentz, Edward A.

Sperry Corporation, The, assignee: *See*—
Barkalow, Clare E.
Barkalow, Clare E., and Early.
Clippinger, Stewart M.
Sensiper, Samuel.

Sprague Electric Company, assignee: *See*—
Lies, William J.

Spring Unit Development Co., assignee: *See*—
Levine, David I.

Stalter, Burton E., Buckeye Lake, Ohio. Chance apparatus. 2,641,473, June 9.

Stalter, Regis W., Pittsburgh, Pa. Building trim. 2,641,030, June 9.

Stambaugh, Russell W., Tucson, Ariz. Inlet valve actuator for flush tanks. 2,641,275, June 9.

Standard Oil Company, assignee: *See*—
Harban, Arthur A., and Johnson.

Standard Oil Company, The, assignee: *See*—
Arthurs, Stanley.
Packard, Henry S.

Standard Oil Development Company, assignee: *See*—
Lawrence, Franklin L.
Leary, Robert F.
Mertzweiller, Joseph K., and Parker.
O'Halloran, Rosemary.
Quelly, Joseph R., and Sankus.
Ricards, Harold A., Jr., Vanderbilt, and Arundale.
Weikart, John.
Weisel, Charles A.

Stanley Works, The, assignee: *See*—
Roby, Sheldon S.

Startz, Ambrose J.: *See*—
Meadows, James L., Howell, Startz, and Miller.

Starzyk, Frederick F., assignor to Tenderet Sales Company, Chicago, Ill. Meat patty forming and sealing machine. 2,641,094, June 9.

Steele, Harmon, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Apparatus for fiber collection. 2,641,028, June 9.

Steffen, Charles L.: *See*—
Blanchett, Luther E., and Steffen.

Stern, Martin N.: *See*—
Meister, Juan B., and Stern.

Stenart, James N., Stirling, Scotland, assignor to Kork-N-Seal Limited, London, England. Closure for bottles and like containers. 2,641,375, June 9.

Stewart, Donald A., Hammersmith, London, assignor to Westool Limited, St. Helen's Auckland, England. Electromagnetic vibrator. 2,641,720, June 9.

Stock, Herman E., New Haven, Conn. Ash tray for vehicles. 2,641,264, June 9.

Stoll, Charles C.: *See*—
Wilckens, Elbe A., and Stoll.

Stone, Scelmer L., Kiefer, Okla. Reciprocating pump with movable cylinder. 2,641,197, June 9.

Stoner, Francis E., and S. W. Lillie, said Stoner assignor to United Aircraft Products, Inc., Dayton, Ohio. Controls for steam-water cleaning apparatus. 2,641,508, June 9.

Storrs, Fred O., Bell Gardens, Calif. Telescopic brush handle. 2,641,012, June 9.

Stott, Harold B., Glenolden, Pa., assignor to Radio Corporation of America. High-inductance loop antenna and system. 2,641,704, June 9.

Stout, Minor W., Webster Groves, Mo. Firetube baffle insert with protected tip for heat exchangers. 2,641,206, June 9.

Stover, Harris, assignor to Collins Radio Company, Cedar Rapids, Iowa. Frequency correction device. 2,641,709, June 9.

Straley, James M., and J. B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 1,8-dihydroxy-5-nitro-4-hydroxyethylphenyl aminoanthraquinone compounds. 2,641,602, June 9.

Stromberg-Carlson Company, assignee: *See*—
Morris, Frank A.

Stults, William R., Jacksonville, Fla. Drafting table. 2,641,082, June 9.

Sulc, Bedrick, Prince George, Va. Boring bit guide. 2,641,147, June 9.

Summerill, Robert J.: *See*—
Meunier, Paul L., and Summerill.

Sun Oil Company, assignee: *See*—
Leutz, Koerner E.

Suter, Menno R., assignor to Shenandoah Equipment Company, Harrisonburg, Va. Double acting valve. 2,641,276, June 9.

Sutherland, Louis W.: *See*—
Buttery, Kenneth T., and Sutherland.

Sutherland Paper Company, assignee: *See*—
Burbank, Wendell T.
Buttery, Kenneth T., and Sutherland.

Sutton, Edwin S., assignee: *See*—
Bell, Thomas A.

Svanoe, Ferdinand E.: *See*—
Bostrom, Harold W., Grabarczyk, and Svanoe.

Swanson, Hilbert E., Milwaukee, assignor to Unit Crane & Shovel Corp., West Allis, Wis. Brake construction. 2,641,339, June 9.

Swart, Anna B.: *See*—
Mazee, Willem M., and Swart.

Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Graininess meter. 2,641,158, June 9.

Sweeton, Kenneth W., Portland, Oreg. Earth inductor compass assembly. 2,641,060, June 9.

Swift & Company, assignee: *See*—
Biddinger, Guy R., and Hanner.
Clemens, Ogden A., Mertens, and Walckhof.

Swingspout Measure Company, assignee: *See*—
Rives, Halcolm D.

Sylvania Electric Products Inc., assignee: *See*—
Hannahs, Wilson H.
Quinn, Gerald S., and Betts.
Rumsey, Howard L., and Abbott.

Sylvester, Jack C., Milwaukee, Wis. Rotary cutting disk type lawn mower. 2,641,100, June 9.

Syncro Machine Company, assignee: *See*—
Bruestle, Carl O.

Tabern, Donalee L.: *See*—
Schock, Richard U., Jr., and Tabern.

Talmey, Paul, Barrington, and J. M. Gleason, assignors to General American Transportation Corporation, Chicago, Ill. Hopper for storing and shipping finely divided materials. 2,641,202, June 9.

Taylor, James W., Brunswick, Ga. Heater for bottled beverages. 2,641,677, June 9.

Taylor, Norris O., Media, Pa. Means of applying a flux. 2,641,560, June 9.

Taylor, William I., Spondon, near Derby, England, assignor to Celanese Corporation of America. Manufacture of staple fiber products. 2,641,027, June 9.

Teal, Gordon K.: *See*—
Rullson, Raymond L., and Teal.

Teale, Robert R., Snyder, assignor to National Gypsum Company, Buffalo, N. Y. Pin mixer. 2,641,453, June 9.

Teegardin, Lester A.: *See*—
Scheidt, Joseph, and Teegardin.

Teeter, Howard M., and J. C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Polyamide resins. 2,641,593, June 9.

Tenderet Sales Company, assignee: *See*—
Starzyk, Frederick F.

Teplitz, Alfred: *See*—
Orr, Howard S., and Teplitz.

Texaco Development Corporation, assignee: *See*—
Zo Bell, Claude E.

Texas Company, The, assignee: *See*—
Meadows, James L., Howell, Startz, and Miller.
Sanderson, Robert T.

Thatcher, Lewis E., assignor to Gaylord Products, Incorporated, Chicago, Ill. Pin curl clip. 2,641,266, June 9.

Thiry, Leon F., Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus for making precision antivibration mountings. 2,641,053, June 9.

Thomas, Henry P., Fayetteville, N. Y., assignor to General Electric Company. Coaxial line filter structure. 2,641,646, June 9.

Thomas, John L., Portland, Oreg. Lifter for utensils and the like. 2,641,497, June 9.

Thomason, Wilton W.: *See*—
Davis, Samuel J., and Thomason.

Thompson, Clifford J., Davenport, Fla. Reversible insole. 2,641,068, June 9.

Thompson, Ralph B., Hinsdale, and J. A. Chenicek, Bensenville, assignors to Universal Oil Products Company, Chicago, Ill. Preventing discoloration of fuel oils. 2,641,538, June 9.

Thompson, Ralph B., Hinsdale, and J. A. Chenicek, Bensenville, assignors to Universal Oil Products Company, Chicago, Ill. Preventing discoloration of fuel oil. 2,641,539, June 9.

Thompson, Richard K., Jr., Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Fraud prevention device. 2,641,348, June 9.

Thor Corporation, assignee: *See*—
Hellyer, John T.

Thornhill-Craver Company, assignee: *See*—
Loeffler, John E.

Thunstrom, John F.: *See*—
Hemenway, Henry H., and Thunstrom.

Tice, Reuben S., Monterey, assignor of sixty-five per cent to G. Hart, Pebble Beach, Calif. Mercury rectifier tube. 2,641,724, June 9.

Tierney, Michael J., Rochester, N. Y. Double tank water heater and incinerator. 2,641,231, June 9.

Tillery Container Company, assignee: *See*—
Tillery, Hubert B.

Tillery, Hubert B., assignor to Tillery Container Company, Kansas City, Mo. Garment hanger guard. 2,641,391, June 9.

Timken-Detroit Axle Company, The, assignee: *See*—
Haugen, Edmond H.

Timberlake, Journey F., Charlottesville, Va. Bowling pin setting machine. 2,641,471, June 9.

Todd, Charles E.: *See*—
Wikle, George F., and Todd.

Tommasi, Giovanni, Rome, Italy. Photocell sensitive to electromagnetic radiations. 2,641,711, June 9.

Toth, Dolan H., Spring Lake Park, Minn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Transitor one-shot multivibrator. 2,641,717, June 9.

Touraton, Emile, and C. Weill, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Electronic discharge tube. 2,641,725, June 9.

Touraton, Emile, A. Piquet, and C. Dumoussean, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Velocity modulation amplifier tube. 2,641,730, June 9.

Touvay, Robert, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Paris, France. Glazing. 2,641,341, June 9.

Trammell, John M., assignor to Colorado Iron Works Company, Denver, Colo. Spindle bearing assembly. 2,641,518, June 9.

Tranter, Reginald F. W., Wellesley, assignor to Boston Herald-Traveler Corporation, Boston, Mass. Apparatus for applying adhesive to moving sheets. 2,641,219, June 9.

Treg, Inc., assignee: *See*—
Gossner, Louis E. E.

Trico Products Corporation, assignee: *See*—
Oishei, John R.
Rappl, Anton.

Trimmer, Fred H., Arlington, Va. Coupling means and trim for laminated building units. 2,641,029, June 9.

Truckenbrodt, John F., Kent, Wash. Fuel registering device for use on motor vehicles. 2,641,129, June 9.

Tucker, Allen M., Tulsa, Okla. Knockdown display structure. 2,641,431, June 9.

Tulauskas, Leonard: *See*—
Puerner, George O., Aust, and Tulauskas.

Tung-Sol Electric Inc., assignee: *See*—
Sitzer, Philip.

Turnbull, Frederick M., assignee: *See*—
Brown, Frank E.

Turner, Charles R. and P. G. Enfield, Springfield Township, Montgomery County, assignors to Proctor Electric Company, Philadelphia, Pa. Cooking apparatus. 2,641,680, June 9.

Turner, Paul G.: *See*—
Turner, Charles R. and P. G.

Tuve, Richard L., Silver Spring, Md. Helium and mixtures thereof with carbon dioxide as fire extinguishants. 2,641,323, June 9.

Twin Disc Clutch Company, assignee: *See*—
Dunkelow, Henry J.

Ulrey, David G., St. Petersburg, Fla., assignor to V. M. Darsey, Detroit, Mich. Detoxifying tung meal. 2,641,542, June 9.

Unger, Earl D., L. A. Smith, and H. F. Willkie, Louisville, assignors to Joseph E. Seagram & Sons, Inc., Shively, Ky. Ion exchange treatment of alcohol solutions. 2,641,543, June 9.

Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O.

Unit Crane & Shovel Corp., assignee: *See*—
Swanson, Hilbert E.

United Aircraft Corporation, assignee: *See*—
Estabrook, John Y.
Hasbrouck, John S.

United Aircraft Products, Inc., assignee: *See*—
Booth, Harry T.
Stoner, Francis E., and Lillie.

United Fruit Company, assignee: *See*—
Kingsbury, Webb.

United States Gypsum Company, assignee: *See*—
Nelsson, Nels.

United States Rubber Company, assignee: *See*—
Black, Sheppard A.
Wikle, George F., and Todd.

United States Steel Corporation, assignee: *See*—
Dunn, Jerry J., and Clinedinst.
Foner, Newton F.
Friedl, Anton J.
Hull, Charles B., and Keller.
Orr, Howard S., and Teplitz.
Pakkala, Matti H., and Phillips.
Walter, William F., Jr., and Wysor.

United Steel & Wire Company, assignee: *See*—
Genebach, Lowell B.

Universal Oil Products Company, assignee: *See*—
Haensel, Vladimir.
Thompson, Ralph B., and Chenicek.

Universal Wire Spring Company, assignee: *See*—
Blumensandt, Svend G., Gutzman, and Neely.

Universal Wire Spring Company, The, assignee: *See*—
Bielak, Frank A., and Neely.

University Loudspeakers, Inc., assignee: *See*—
Levy, Sidney E., and Cohen.

Upton, Charles B., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Flake removal for solvent extraction towers. 2,641,536, June 9.

Urban, Stephen F., Kenmore, and W. B. Blumenthal, Niagara Falls, assignors to National Lead Company, New York, N. Y. Water repellence fixative treatment. 2,641,558, June 9.

Uthurriague, Juan B., Buenos Aires, Argentina. Loose-leaf binder. 2,641,261, June 9.

Valach, Charles F., Berwyn, assignor to American Phenolic Corporation, Chicago, Ill. Antenna structure. 2,641,703, June 9.

Valois, Moore, Napoleonville, La. Power sprayer for chemical herbicides. 2,641,505, June 9.

Van Brode Milling Co., Inc., assignee: *See*—
Brody, David.

Vance, John E.: *See*—
Gerber, Dale C., and Vance.

Vance, John E., assignor to The Hoover Company, North Canton, Ohio. Making flexible hose. 2,641,303, June 9.

Vance, John E., assignor to The Hoover Company, North Canton, Ohio. Joint for filter unit for suction cleaners. 2,641,486, June 9.

Vanderbilt, Byron M.: *See*—
Ricards, Harold A., Jr., Vanderbilt, and Arundale.

Van der Plate, Louis, Paterson, N. J. Control mechanism for milking systems. 2,641,223, June 9.

Van De Sampel, Achiel: *See*—
Hedquist, Milton T., Harroun, Mayhew, Van De Sampel, and Whalen.

Ventura Tool Company, assignee: *See*—
Williams, William J., and Hanes.

Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, assignee: *See*—
Lippert, Hanns, and Hepperle.

Vick, Edward H., Orlando, Fla. Paper clip applicator. 2,641,051, June 9.

Vickers Incorporated, assignee: *See*—
Jones, Glenn M., and Duvall.
Kiessig, Ernst F.

Vreeland, Whitney, Portland, Oreg. Cutting tool. 2,641,048, June 9.

Wagner, Otto, Berlin-Schlachtensee, Germany. Electromagnetic type of mixer. 2,641,452, June 9.

Walckhof, Max: *See*—
Clemens, Ogden A., Mertens, and Walckhof.

Waldron, George W.: *See*—
Noddings, Charles R., Waldron, and Corey.

Walker, Brooks, Piedmont, Calif. Vehicle having offset radiator and tire located adjacent thereto. 2,641,500, June 9.

Wallin, Gus W., assignor to Motorola, Inc., Chicago, Ill. Tuning device. 2,641,647, June 9.

Walter, William F., Jr., Greenock, and W. J. Wysor, Pittsburgh, Pa., assignor to United States Steel Corporation. Pouring ingots. 2,641,525, June 9.

Wandel, Kurt, Downingtown, Pa. Apparatus for effecting disintegration of materials. 2,641,165, June 9.

War, United States of America as represented by the Secretary of, assignee: *See*—
Halleisen, Charles E.

Warburton, Kenneth R.: *See*—
Martin, Frank A., and Warburton.
Waterbury Farrel Foundry & Machine Company, Inc., The, assignee: *See*—
Jackman, George W.
Waugh, Charles C., Los Angeles, Calif., assignor to North American Aviation, Inc. Pressure gauge. 2,641,131, June 9.
Wave Power Development Limited, assignee: *See*—
Montgomery, Seton J., and Macnab.
Webb, Robert C., Ashland, Ky. Magnetic screw holding attachment for screw drivers. 2,641,290, June 9.
Weber, H. G., and Company, Inc., assignee: *See*—
Weber, Herbert H., and Sohn.
Weber, Herbert H., Sheboygan, and A. O. Sohn, Plymouth, assignors to H. G. Weber and Company, Inc., Kiel, Wis. Apparatus for positively feeding paste and other adhesives to moving work. 2,641,220, June 9.
Webster, Alexander H., London, assignor to R. W. Webster and Company Limited, Waltham Cross, England. Conveyer system. 2,641,371, June 9.
Webster, R. W., and Company Limited, assignee: *See*—
Webster, Alexander H.
Weggum, Gust, Nashwauk, Minn., assignor to The Jeffrey Manufacturing Company. Conveyer system, including a stacker, trailing conveyer, and belt tilting feed hopper. 2,641,353, June 9.
Weikart, John, Cranford, N. J., assignor to Standard Oil Development Company. Production of motor fuels from petroleum oils. 2,641,573, June 9.
Weill, Camille: *See*—
Touraton, Emile, and Weill.
Weinberger, Joseph J., Jr.: *See*—
Sauter, Harold F., and Weinberger.
Weisel, Charles A., Somerville, N. J., assignor to Standard Oil Development Company. Compounded lubricating oil. 2,641,578, June 9.
Weller, Royal: *See*—
Park, Robert H., Weller, Russell, and Booth.
Wells, Sidney D., Combined Locks, assignor to The Institute of Paper Chemistry, Appleton, Wis. Production of fiber from flax straw. 2,641,541, June 9.
Wendt, Gustav C., and P. C. Wendt, Jr., Boonton, N. J., assignors to Pohatcong Hosiery Mills, Inc. Hosiery marking machine. 2,641,178, June 9.
Wendt, Peter C., Jr.: *See*—
Wendt, Gustav C. and P. C. Wendt, Jr.
Wentworth, John W., Haddonfield, N. J., assignor to Radio Corporation of America. Color television camera. 2,641,643, June 9.
Wentz, Edward A., Jersey City, assignor to Specialties Development Corporation, Belleville, N. J. Apparatus for drying yarn and the like. 2,641,062, June 9.
West, Ernest: *See*—
West, Frederick J. and E.
West, Fredrick J. and E., assignors to Wests' Gas Improvements Company Limited, Manchester, England. Automatically controlled ash removing grate. 2,641,208, June 9.
Western Electric Company, Incorporated, assignee: *See*—
Ducasse, Vidal.
Mellstrup, Emil E.
Western Union Telegraph Company, The, assignee: *See*—
Edgar, William S. W., Jr.
Westinghouse Air Brake Company, assignee: *See*—
Bone, Herbert L.
Westinghouse Electric Corporation, assignee: *See*—
Born, William F., and Langaunet.
Lund, Alvin O.
Weston Hydraulics, Limited, assignee: *See*—
Baldwin, Lee E.
Westool Limited, assignee: *See*—
Stewart, Donald A.
Wests' Improvement Company Limited, assignee: *See*—
West, Frederick J. and E.
Wetzel, Albert W.: *See*—
Wetzel, Harold F. and A. W.
Wetzel, Harold F. and A. W., Battle Creek, Mich. Receptacle holding and supporting apparatus. 2,641,367, June 9.
Weyerhaeuser Timber Company, assignee: *See*—
Blickenderfer, Charles, Jr., and Brownfield.
Whalen, Arthur J.: *See*—
Hedquist, Milton T., Harroun, Mayhew, Van De Sampel, and Whalen.
White, Robert P.: *See*—
Parziale, Joseph, and White.
Whiting, David V., Pasadena, and J. S. Runyan, San Clemente, Calif. Producing knitted shoe uppers of shrinkable yarn. 2,641,004, June 9.
Whitley, Ernest M.: *See*—
Beckman, John C., and Whitley.
Whitworth, Sir W. G. Armstrong, & Company (Engineers) Limited, assignee: *See*—
Mansfield, Wilfred P.
Wikle, George F., and C. E. Todd, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Machine for heat-treating tires. 2,641,021, June 9.
Wilckens, Elbe A., and C. C. Stoll, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Apparatus for assembling receptacle closures and seals. 2,641,297, June 9.
Wilcolator Company, The, assignee: *See*—
Evans, Vincent J.
Wilcox, Doyle E., Inglewood, Calif., assignor to North American Aviation, Inc. Worm gear lapping apparatus. 2,641,088, June 9.
Wilfert, Karl, Stuttgart-Degerloch, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Wheel suspension mechanism for road vehicles. 2,641,482, June 9.
Wilkinson, Robert G.: *See*—
Higgins, William F., and Wilkinson.
Williams, Brevard, assignee: *See*—
Krogh, Jens I.
Williams, Samuel B., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Cooled turbine or compressor blade. 2,641,439, June 9.
Williams, Samuel B., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Turbine blade with cooling means and carrier therefor. 2,641,440, June 9.
Williams, William J., and J. W. E. Hanes, assignors to Ventura Tool Company, Ventura, Calif. Split collar mounting tool. 2,641,054, June 9.
Willkie, Herman F.: *See*—
Unger, Earl D., Smith, and Willkie.
Willman, Philip E., Maple Park, assignor to McGraw Electric Company, Elgin, Ill. Coffee maker. 2,641,681, June 9.
Wilt, Frank E., San Diego, Calif. Compressible fluid control means for toilet flush tanks. 2,640,995, June 9.
Wilt, Homer E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hand-powered tool for upsetting hollow rivets. 2,641,378, June 9.
Winckler, Gunnar A. F., Milford, and O. K. Reinhardt, West Haven, Conn., assignors to Olin Industries, Inc. Primary battery cell. 2,641,623, June 9.
Winckler, Gunnar A. F., Milford, and O. K. Reinhardt, West Haven, Conn., assignors to Olin Industries, Inc. Cell. 2,641,624, June 9.
Wire-O Corporation, assignee: *See*—
Cruzan, Charles C.
Wise, Gary E., assignor to Holdenline Company, Cleveland, Ohio. Fish lure. 2,641,080, June 9.
Withall, William E., Hinsdale, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,641,462, June 9.
Woessner, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,641,333, June 9.
Wolf, Louis L.: *See*—
Grinde, George H., and Wolf.
Wolfe, Charles M., Glendora, and J. E. Miller, Altadena, Calif., assignors, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio. Pressure pickup. 2,641,742, June 9.
Wood, Gar, Industries, Inc., assignee: *See*—
Bennett, Robert N.
Woodward, James M., assignor to Eureka Rubber Co. (North) Limited, Johannesburg, Transvaal, Union of South Africa. Limb protector or guard. 2,640,989, June 9.
Woolard, Simon B., Schenectady, N. Y., assignor to General Electric Company. Binary numbers comparator. 2,641,696, June 9.
Worcester Moulded Plastics Company, assignee: *See*—
Santo, Dominick C.
Wright, David P., Oakland, and R. H. Fish, Morgan Hill, assignors to Air-O Fan Products Corporation, Gilroy, Calif. Duplex spray machine. 2,641,503, June 9.
Wright, Frank L., Mayfield, Ky. Boat trailer assembly. 2,641,373, June 9.
Wright, Howard L., Leaside, assignor to Curtis Lighting of Canada Limited, Toronto, Ontario, Canada. Suspension for lighting fixtures. 2,641,433, June 9.
Wright Machinery Company, assignee: *See*—
Petree, James C.
Wyckoff, Kenneth K.: *See*—
Hisserich, Charles A., Henderson, and Wyckoff.
Wysor, William J.: *See*—
Walter, William F., Jr., and Wysor.
Yess, Thomas R., Schenectady, N. Y. Ratchet clutch handle. 2,641,291, June 9.
Yost, Clyde E., Evansville, Ind. Spray nozzle. 2,641,509, June 9.
Young, Homer C., Milwaukee, Wis. Roofing retainer. 2,641,204, June 9.
Ytterburg, Carl F., Yonkers, assignor to Kalman Floor Company, Incorporated, New York, N. Y. Concrete surfacing machine. 2,641,169, June 9.
Zalman, Alexander: *See*—
Secofsky, Abraham, Meisel, and Zalman.
Zandelin, Johan S., Stockholm, assignor to Industriaktiebolaget Luxor, Motala, Sweden. Record changing phonograph. 2,641,474, June 9.
Zander, Nils A., Stow, Mass. Label applying machine. 2,641,377, June 9.
Zimmer, Albert E., Chicago, Ill., and G. B. Dorey, Westmount, Quebec, Canada, assignors to Enterprise Railway Equipment Company, Chicago, Ill. Latching mechanism for doors for hopper type railway cars. 2,641,198, June 9.
ZoBell, Claude E., La Jolla, Calif., assignor to Texaco Development Corporation, New York, N. Y. Removing sulfur from petroleum hydrocarbon and apparatus. 2,641,564, June 9.
Zo Bell, Claude E., La Jolla, Calif., assignor to Texaco Development Corporation, New York, N. Y. Recovery of hydrocarbons. 2,641,566, June 9.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Key support. R. C. Legat and E. Baretta. Re. 23,666, Resonant silencer. C. Thumim. Re. 23,667. June 9.

LIST OF PLANT INVENTIONS

Rose plant. F. Meilland. 1,192–8. June 9.

LIST OF DESIGN INVENTIONS

Audio visual unit. L. M. Sandwick. 169,824. June 9.
Automobile-airplane, Combination. A. J. Gero, Jr. 169,807, June 9.
Bookholder or similar article. J. P. Waldrop. 169,832, June 9.
Box, Spool. W. H. Collins. 169,803, June 9.
Cane-doll. F. Carver. 169,802, June 9.
Chain for a necklace or the like, Link. A. Katz. 169,815, June 9.
Chair. B. F. Hamilton. 169,810, June 9.
Chaise, Adjustable. A. P. Krikorian. 169,818, June 9.
Comb. H. Goldman. 169,808, June 9.
Cribbage board or similar article. A. V. Capodanno. 169,801, June 9.
Display stand, Bracelet. A. J. Garreau. 169,806, June 9.
Fabric, Woven plastic. V. Petracek. 169,821, June 9.
Fish bait, Artificial. G. A. Schmidt. 169,826, June 9.
Fishing lure. F. Kirkman. 169,816, June 9.
Flame pad or similar article. V. P. Bourne-Vanneck. 169,799, June 9.
Fork and knife, Combined salad. J. A. St. Clair. 169,830, June 9.
Fork, Carving aid. J. Schoenfeld. 169,827, June 0.
Hat. M. Tuteur. 169,831, June 9.
Heater, Portable hot-air. C. R. Burgess. 169,800, June 9.
Hinge. R. A. Jorgensen. 169,813, June 9.
Lamp fixture. A. Anthony. 169,798, June 9.
Lamppost and mailbox support, Combined. J. H. Hagen. 169,809, June 9.
Louver board. P. P. Heinley. 169,811, June 9.
Lunch box and vacuum bottle unit, Combined. P. Hellman. 169,812, June 9.
Mixer, Drink. A. W. Seyfried and P. W. Lahr. 169,829, June 9.
Money clip and stamp holder, Combined. E. Schildkraut. 169,825, June 9.
Necklace or similar article. R. Semensohn. 169,828, June 9.
Necklace or the like. A. Katz. 169,814, June 9.
Ornament and flower holder, Combined mantel. W. E. and P. L. Young. 169,833, June 9.
Pendant. M. De Stefano. 169,804, June 9.
Ski pole ring. F. Ronne. 169,823, June 9.
Sofa, Upholstered. E. Eck. 169,805, June 9.
Stocking, Lady's. M. A. Rickert. 169,822, June 9.
Table. E. R. Kupferer. 169,819, June 9.
Tray, Serving. M. F. Klein. 169,817, June 9.
Visor, Headlamp. D. Pattis. 169,820, June 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerometer. J. J. Gilvarry and D. F. Rutland. 2,641,458, June 9.
Accessory for automobile bodies, Pressure-relief. C..Ensey. 2,641,501, June 9.
Accessory system. A. Rappl. 2,641,107, June 9.
Acetone-formaldehyde condensation products, Manufacturing. D. M. Gagarine. 2,641,591, June 9.
Acoustic ear pendant. D. F. Balmer. 2,641,327, June 9.
Acrylonitrile-vinyl amine interpolymers and making. D. W. Chaney and H. G. Sommar. 2,641,524, June 9.
Actuating means for antennas and the like. F. V. Gosline. 2,641,135, June 9.
Actuating valves and other reciprocating parts, Means for. W. P. Mansfield. 2,641,236, June 9.
Actuator for machine elements. C. L. Garrison. 2,641,092, June 9.
Adhesive compositions, including an amylaceous material and a triazone. T. A. Martone, Jr. 2,641,584, June 9.
Adjustable bed lamp. C. R. Myre. 2,640,998, June 9.
Adjustable cam operated clutch. H. J. Dunkelow. 2,641,345, June 9.
Adjustable oven or broiler rack. L. B. Genebach. 2,641,247, June 9.
Ageing or reducing apparatus. R. W. Jacoby. 2,641,119, June 9.
Aircraft undercarriage. T. J. Harriman and F. P. Bassett. 2,641,423, June 9.
Alkenylation of furans. A. A. Harban and C. E. Johnson. 2,641,600, June 9.
Alloy: *See*—
Ferrous base chromium-nickel-titanium alloy.
Aluminum salts of dibasic amino acids. J. W. Le Maistre and I. W. Grote. 2,641,604, June 9.
Ammonium salts, Quaternary. H. J. Barber. 2,641,610, June 9.
Anchor. R. S. Danforth. 2,641,215, June 9.
Anchor. G. E. Dial. 2,641,216, June 9.
Anesthesia apparatus. A. E. Engelder. 2,641,253, June 9.
Animal rubbing and oiling station. W. M. Kirk. 2,641,225, June 9.
Antenna and system, High-inductance loop. H. B. Stott. 2,641,704, June 9.
Antenna structure. C. F. Valach. 2,641,703, June 9.
Antenna system. S. H. M. Dodington. 2,641,756, June 9.
Apparatus and method for drafting fibers. J. C. Busby, Jr. 2,641,025, June 9.
Apparatus and method for mixing molten glass. D. Labino. 2,641,454, June 9.
Apparatus for and methods of aligning webs for lamination. J. L. McCleary and R. E. Lowey, Jr. 2,641,416, June 9.
Apparatus for applying adhesive to moving sheets. R. F. W. Tranter. 2,641,219, June 9.
Apparatus for applying cementitious linings to inner wall surfaces of liquid-holding receptacles. M. G. Burwell. 2,641,218, June 9.
Apparatus for assembling receptacle closures and seals. E. A. Wilckens and C. C. Stoll. 2,641,297, June 9.
Apparatus for clarifying liquids. H. G. Chatain. 2,641,363, June 9.
Apparatus for cutting threads. C. B. Keys. 2,641,287, June 9.
Apparatus for dispensing small articles over a restricted area. J. J. Keleher. 2,641,476, June 9.
Apparatus for drying yarn and the like. E. A. Wentz. 2,641,062, June 9.
Apparatus for dyeing. H. H. Belcher. 2,641,121, June 9.
Apparatus for effecting disintegration of materials. K. Wandel. 2,641,165, June 9.
Apparatus for fiber collection. H. Steele. 2,641,028, June 9.
Apparatus for finishing hosiery. S. Bailey, Jr. 2,641,120, June 9.
Apparatus for making precision antivibration mountings. L. F. Thiry. 2,641,053, June 9.
Apparatus for measuring the speed of elongated products. C. B. Hull and C. C. Keller. 2,641,715, June 9.
Apparatus for melting waxy compounds for spraying purposes. S. A. W. Jeurling. 2,641,676, June 9.
Apparatus for positively feeding paste and other adhesives to moving work. H. H. Weber and A. O. Sohn. 2,641,220, June 9.
Apparatus for separating mixed materials. W. L. Remick. 2,641,362, June 9.
Apparatus for shaping electric lamp mounts. G. S. Quinn and M. D. Betts. 2,641,286, June 9.
Apparatus for sharpening razor blades and other blades. W. S. Bucklin. 2,641,091, June 9.
Apparatus for storing hay. C. Oberlin. 2,641,174, June 9.
Apparatus for testing and adjusting gun sights. P. H. Eccleston. 2,641,056, June 9.
Apparatus for testing elastic material. S. A. Black. 2,641,128, June 9.
Apparatus for the measurement of the bulk modulus of liquids. S. L. Kerr and L. H. Kessler. 2,641,127, June 9.
Appliance for fitting valve spring collets. E. M. Arthur. 2,641,148, June 9.
Applicator. F. E. Brown. 2,641,254, June 9.
Applying a flux, Means of. N. O. Taylor. 2,641,560, June 9.
Applying coiled layers of raffia to the bottom of bowls, Means and method of. I. Bloom and J. Abrams. 2,641,299, June 9.
Applying seeds to carriers, Method and apparatus for. J. D. Kinnear, Jr. 2,641,298, June 9.
Ash tray for vehicles. H. E. Stock. 2,641,264, June 9.
Attachment for clothes hangers and like articles. M. B. Gwinn. 2,641,393, June 9.
Attachment for exercising machines. E. W. Brockman. 2,641,250–1, June 9.
Automatic multichannel selection. D. F. Hoth and R. O. Soffel. 2,641,757, June 9.
Automobile accessory. J. N. Garofalo. 2,641,359, June 9.
Awning, Ventilated metal. L. J. Freeman, Jr. 2,641,032, June 9.
Axially tightening band clamp. C. E. Christophersen. 2,641,038, June 9.
Axle construction. A. A. Gassner. 2,641,499, June 9.
Axle, Vehicle. F. F. Linn. 2,641,464, June 9.
Azeotropic refrigerant composition of monochlorodifluoromethane and chloropentafluoroethane. A. F. Benning. 2,641,579, June 9.
Azeotropic refrigerant composition of 1,1-difluoroethane and monochloropentafluoroethane. H. Lewis. 2,641,580, June 9.
Bag bottom forming device. F. Gramegna. 2,641,167, June 9.
Band brake. H. J. Findley. 2,641,338, June 9.
Banking automotive vehicle. C. Bancroft. 2,641,480, June 9.
Bar rest for typewriting machines, Rebound preventing type. H. J. Kistner. 2,641,349, June 9.
Bar tacking control mechanism for buttonhole sewing machines, Automatic. G. Minkowits. 2,641,211, June 9.
Bark-removing apparatus having log-rotating and log-advancing peeler heads. J. B. Merrifield. 2,641,289, June 9.
Basically substituted alkyl esters of γ-aroylarylbutyric acids and their salts. J. W. Cusic. 2,641,608, June 9.
Basin and utility space bathroom fixture, Combination. B. F. McMahon. 2,641,519, June 9.
Battery cell, Primary. G. A. F. Winckler and O. K. Reinhardt. 2,641,623, June 9.
Battery container. W. B. Elmer. 2,641,625, June 9.
Beam construction, Bogie. W. D. Chaplin. 2,641,481, June 9.
Bearing: *See*—
Center scroll bearing.
Bed and cabinet unit, Folding. K. O. E. Jönsson. 2,641,000, June 9.
Bed and housing structure, Portable. W. L. Sheppard. 2,640,999, June 9.
Bed and seat structure. R. W. Sampson and W. E. Montgomery. 2,641,291, June 9.
Beehive comb frame construction. O. Erdmann. 2,641,002, June 9.
Beet topper. N. E. Reynolds and L. R. McRobert. 2,641,099, June 9.
Belt unloader for control of material flow. H. L. Hudson. 2,641,355, June 9.
Beryllium basic acetate, Producing. H. C. Kawecki. 2,641,611, June 9.
Bessemer converter. R. Lewis. 2,641,461, June 9.
Blower-filter unit. G. L. Schwarz. 2,641,404, June 9.
Boat trailer assembly. F. L. Wright. 2,641,373, June 9.
Boot hanger. F. E. Burch. 2,641,366, June 9.
Bore cavern for percussion drilling. D. W. Haglund and S. E. Elström. 2,641,446, June 9.
Boring and turning machine. C. E. Dilts. 2,641,146, June 9.
Boring bit guide. B. Sulc. 2,641,147, June 9.

Bowling pin setting machine. J. F. Timberlake. 2,641,471, June 9.
Box: *See*—
Fishing tackle box. Material spreading box.
Bracket device. F. J. Kozak. 2,641,429, June 9.
Brake: *See*—
Band brake.
Brake construction. H. E. Swanson. 2,641,339, June 9.
Brush having an internal anchor for securing the bristles within the ferrule. H. F. Sauter and J. J. Weinberger, Jr. 2,641,014, June 9.
Brush with liquid feeding means. F. J. Caronia. 2,641,011, June 9.
Buffer mechanism for automatic firearms with breech mechanism locked by inertia. H. Lippert and E. Hepperle. 2,641,163, June 9.
Building construction. J. C. Antony. 2,641,449, June 9.
Building trim. R. W. Stalter. 2,641,030, June 9.
Burner: *See*—
Liquid fuel burner.
Bus duct and plug-in unit. W. F. Born and J. C. Langaunet. 2,641,636, June 9.
Cable reel take-up. C. G. Bruestle. 2,641,413, June 9.
Caging device for attitude gyroscopes. C. E. Barkalow and T. A. Early, Jr. 2,641,133, June 9.
Calculating machine, Record controlled. R. A. Rowley and D. C. Newcomb. 2,641,408, June 9.
Calculating machine with rack drive. C. Gehsner 2,641,410, June 9.
Calculator, Tabular. H. S. Packard. 2,641,406, June 9.
Camera and spotlight support, Adjustable. A. Secofsky, M. A. Meisel, and A. Zalman. 2,641,430, June 9.
Camera, Color television. W. L. Behrend. 2,641,642, June 9.
Camera, Color television. J. W. Wentworth. 2,641,643, June 9.
Can testing head adaptable to various sizes of cans. W. W. Maher. 2,641,126, June 9.
Canceling and dating device. J. H. Koffski. 2,641,182, June 9.
Canned products, Preparation of. E. N. Higgins and V. P. Evans. 2,641,176, June 9.
Canopy, Variable diameter parachute. H. J. Moran. 2,641,424, June 9.
Capping machine, Bottle. W. A. Barrett. 2,641,398, June 9.
Capsule, Cup-shaped foil. O. J. Bruun. 2,641,402, June 9.
Carbon black furnace and making carbon black. J. C. Krejci. 2,641,534, June 9.
Carbon holder for arc lamps. H. L. Cronkhite. 2,641,729, June 9.
Carbon monoxide copolymers and a catalytic process for their preparation. E. L. Little, Jr. 2,641,590, June 9.
Carrier: *See*—
Portable feed grinder carrier.
Caster glide. M. Kramcsak, Jr. 2,641,016, June 9.
Catalytic synthesis of alcohols. J. K. Mertzweiller and P. T. Parker. 2,641,613, June 9.
Cathode insulator. E. Poble. 2,641,727, June 9.
Cell. G. A. F. Winckler and G. K. Reinhardt. 2,641,624, June 9.
Center scroll bearing. H. M. Hunter and C. C. Bryant. 2,641,356, June 9.
Chair: *See*—
Foldable wheel chair.
Chance apparatus. B. E. Stalter. 2,641,473, June 9.
Changeover valve. N. H. Siebens. 2,641,273, June 9.
Charging liquid products and relatile propellants into pressure containers. D. M. McBean. 2,641,389, June 9.
Chitterling preparing machine. C. A. Clemens, R. O. Mertens, and M. Walckhof. 2,641,020, June 9.
Chlorine dioxide of low chlorine content, Manufacture of. M. L. Audoynaud. 2,641,528, June 9.
Chronometer and sound reproducing instrument, Combination. J. T. Offutt. 2,641,654, June 9.
Cigar perforating device. H. W. Grady. 2,641,265, June 9.
Circuit: *See*—
Controllable multi-vibrator circuit. Local transmitter frequency control circuit.
Electronic limit control circuit. Wave shaping circuit.
Circuit using cold cathode tube, Ringer. H. C. Pye. 2,641,553, June 9.
Circuits, Magnetic recording and reproducing. L. J. Bobb. 2,641,655, June 9.
Clamp: *See*—
Axially tightening hand clamp.
Clamp for pocketbook handles, End. D. I. Reiter. 2,641,036, June 9.
Clasp, Hose. W. J. Bissell. 2,641,039, June 9.
Cleaner: *See*—
Suction cleaner. Vacuum cleaner.
Cleaning and descaling ferrous articles and a bath therefor, M. H. Pakkala and F. J. Phillips. 2,641,559, June 9.
Cleaning internal-combustion engines. E. Faulkner. 2,641,267, June 9.
Cleaning machine, Filter. R. L. G. Jones and S. C. Okeon. 2,641,269, June 9.
Clear transparent polymers, Production of. R. F. Leary. 2,641,595, June 9.
Clinching apparatus. S. G. Blumensaadt, E. H. Gutzman, and W. H. Neely. 2,640,986, June 9.
Clip: *See*—
Pin curl clip.
Closure for bottles and like containers. J. N. Steuart. 2,641,375, June 9.
Clothesrack for ironing boards and the like, Foldable. M. V. Maher. 2,641,072, June 9.
Clutch: *See*—
Adjustable cam operated clutch.
Clutch construction. O. H. Banker. 2,641,344, June 9.
Clutch enclosure, Flexible. N. E. Risk and C. A. Ramsel. 2,641,346, June 9.
Cocking mechanism for double barrel upward tilting breech firearms. D. S. Foote and E. S. Atwell. 2,641,077, June 9.
Coffee maker. P. E. Willman. 2,641,681, June 9.
Coin-wrapping device. J. Scheidt and L. A. Teegardin. 2,641,096, June 9.
Coke oven buckstay structure. C. Otto. 2,641,575, June 9.
Compass assembly, Earth inductor. K. W. Sweeton. 2,641,066, June 9.
Composition of fluid methyl polysiloxanes. P. J. Chevalier. 2,641,589, June 9.
Compressor unit, Fluid. J. Le Valley. 2,641,405, June 9.
Concrete surfacing machine. C. F. Ytterberg. 2,641,169, June 9.
Condensation products of styrene oxide with alkylene oxides and making the same. E. C. Britton and P. S. Petrie. 2,641,614, June 9.
Condensed milk and such products containing lactose, Preparing. R. de Vietter. 2,641,549, June 9.
Connector: *See*—
Electrical connector. Multiple outlet connector.
Heater connector.
Construction of street signs. M. M. Saul. 2,641,075, June 9.
Container: *See*—
Battery container.
Controlled fluid dispensing container.
Container. F. Der Yuen. 2,641,374, June 9.
Container. M. J. Quillinan. 2,641,292, June 9.
Container and dispenser, Soap. F. J. Lowthers. 2,641,506, June 9.
Container with handle stacking means. G. E. Coursey. 2,641,383, June 9.
Control apparatus for fluctuating electromechanical systems. R. L. Jaeschke. 2,641,759, June 9.
Control means for automatically operated doors. S. S. Roby. 2,641,406, June 9.
Control mechanism for milking systems. L. Van der Plate. 2,641,223, June 9.
Control of wave length in wave guide and coaxial lines. N. L. Cohen, L. Goldstein, and W. Sichak. 2,641,702, June 9.
Control wheel and wiring. J. H. Bennett, Jr. 2,641,629, June 9.
Controllable multivibrator circuit. A. H. Dickinson. 2,641,706, June 9.
Controlled fluid dispensing container. H. D. Rives. 2,641,383, June 9.
Controls for steam-water cleaning apparatus. F. E. Stoner and S. W. Lillie. 2,641,508, June 9.
Convertible air hose coupling. H. T. Seale. 2,641,272, June 9.
Conveyer, Banked. W. Kingsbury. 2,641,354, June 9.
Conveyer system. A. H. Webster. 2,641,371, June 9.
Conveyer system, including a stacker, trailing conveyer, and belt lifting feed hopper. G. Weggum. 2,641,353, June 3.
Cooking apparatus. L. T. Finizie. 2,641,177, June 9.
Cooking apparatus. C. R. and P. G. Turner. 2,641,680, June 9.
Cooking device. L. S. Guthof. 2,641,240, June 9.
Cooking vessel, Portable. N. L. Goss. 2,641,243, June 9.
Cooling apparatus, Rotary. N. F. Foner. 2,641,064, June 9.
Cooling turbine blades by air, Means for. R. H. Goddard. 2,641,040, June 9.
Cooling wall for heated chambers. R. Doležal. 2,641,205.
Cot and litter construction, Stacking. F. L. Davis. 2,640,996, June 9.
Couch bed, Convertible. I. Hoopingarner. 2,640,997, June 9.
Counter construction. L. A. Simmons. 2,641,400, June 9.
Counterflashing and anchor cap therefor. L. B. Coleman. 2,641,203, June 9.
Counting selected electrical transients, Method and apparatus for. R. H. Dicke. 2,641,409, June 9.
Coupling: *See*—
Convertible air hose coupling.
Coupling and clutch, Fluid. J. S. Hasbrouck. 2,641,342, June 9.
Coupling construction. V. A. Hedberg, Jr. 2,641,489, June 9.
Coupling device for relatively rotatable coaxial cables. D. C. de Packh and J. E. Pugh, Jr. 2,641,744, June 9.
Coupling device with spring pressed tighteners. J. T. Krapp. 2,641,490, June 9.

Coupling means and trim for laminated building units. F. H. Trimmer. 2,641,029, June 9.

Cover: *See*—
Protective book cover.
Studio couch slip cover.
Steel hatch cover.

Cover plate for flush type electric wall receptacles, Safety. D. C. Lewis. 2,641,627, June 9.

Creep prevention control for hydraulic power units. S. A. Jacques. 2,641,227, June 9.

Crossfeed mechanism. P. A. Mulcey, J. W. Eckerd, and E. I. Small. 2,641,369, June 9.

Cup, Handled. K. T. Buttery and L. W. Sutherland, Jr. 2,641,403, June 9.

Cutter device for pipe cleaners, Rotary. W. S. Lang and L. R. Robinson. 2,641,010, June 9.

Cutting machine for extruded clay products. P. E. Kopp. 2,641,042, June 9.

Cutting machine for plastic material. J. J. Gano. 2,641,041, June 9.

Cutting tool. G. W. Jackman. 2,641,047, June 9.

Cutting tool. W. Vreeland. 2,641,048, June 9.

Decalcomania. V. E. Chartrand and P. E. James. 2,641,562, June 9.

Decelerometer, Recording. H. Carleton. 2,641,457, June 9.

Decoder, Delay line. P. F. M. Gloess and L. J. Libois. 2,641,698, June 9.

Decolorizing oil, Process and apparatus for. S. Arthurs. 2,641,574, June 9.

Depth control for agricultural implements, Automatic. W. H. Silver. 2,641,172, June 9.

Dethiolizing hydrocarbons. J. L. Meadows, R. H. Howell, A. J. Startz, and G. H. Miller. 2,641,572, June 9.

Detonator for firing explosives, Delayed-action. J. R. Lockett. 2,641,185, June 9.

Detoxifying tung meal. D. G. Urrey. 2,641,542, June 9.

Device for admixing a cleansing agent with a stream of fluid. G. F. McGregor. 2,641,507, June 9.

Device for cleaning out the bottoms of grain elevators. L. Jones. 2,641,337, June 9.

Device for holding coils of strapping with means for delivering lengths therefrom. A. J. Friedl. 2,641,470, June 9.

Device for use in making bound buttonholes. R. T. Hanna. 2,641,388, June 9.

Device which aerates water. E. M. Poirot. 2,641,455, June 9.

Dibenzoylethylene compounds and producing the same. M. W. Goldberg and A. I. Rachlin. 2,641,599, June 9.

Dielectric material. W. J. Lies. 2,641,532, June 9.

Differential air gauge. G. W. Klog. 2,641,130, June 9.

Digital reader. G. W. Klog. 2,641,522, June 9.

Diolefins from olefins, Production of. C. R. Noddings, G. W. Waldron, and J. W. Corey. 2,641,619, June 9.

Directional coupler. S. Sensiper. 2,641,648, June 9.

Dishwasher. T. F. Allen. 2,641,270, June 9.

Dishwashing machine. J. T. Hellyer. 2,641,268, June 9.

Dispenser: *See*—
Razor blade dispenser.
Tobacco dispenser.

Dispensing caps for bottles. J. Parziale and R. P. White. 2,641,376, June 9.

Display structure, Knockdown. A. M. Tucker. 2,641,431, June 9.

Distributor stabilizer. J. A. McKenna. 2,641,660, June 9.

Ditching machine, Endless conveyer. R. N. Bennett. 2,641,070, June 9.

Door: *See*—
Mixing machine discharge door.

Door lock. J. D. Leslie and C. H. Schamel. 2,641,495, June 9.

Door opener, Garage. G. E. Reed. 2,641,467, June 9.

Door operating mechanism, Dump. G. B. Dorey. 2,641,200, June 9.

Double-acting valve. M. R. Suter. 2,641,276, June 9.

Drafting of textile fibers. G. H. Ambler. 2,641,026, June 9.

Drafting table. W. R. Stults. 2,641,082, June 9.

Drier: *See*—
Festoon drier.
Grain drier.

Drill bit and cutter, Hook tooth rotary. A. W. Kammerer. 2,641,447, June 9.

Drill with fluid coupling, Combined rotary and impact. R. E. Snyder. 2,641,445, June 9.

Drilling boreholes, Method and apparatus for. J. Moon. 2,641,444, June 9.

Dynamoelectric machine. L. E. Blanchett and C. L. Steffen. 2,641,737, June 9.

Eddy-current ring construction for electrical machines. R. L. Jaeschke. 2,641,722, June 9.

Egg collecting system, Automatic. T. B. Charles and R. R. Skelton. 2,641,352, June 9.

Electric drill adapter kit. S. F. Gabriele. 2,641,479, June 9.

Electric induction furnace. A. E. Greene. 2,641,621, June 9.

Electric primary cell. W. F. Higgins and R. G. Wilkinson. 2,641,622, June 9.

Electric switch. M. N. Glickman. 2,641,669, June 9.

Electric switch. M. F. Koenig and R. A. Millermaster. 2,641,671, June 9.

Electric switch. A. W. Krieger. 2,641,663, June 9.

Electrical conductor. N. C. Parrish. 2,641,672, June 9.

Electrical connector. B. J. Johanson. 2,641,747, June 9.

Electrode and making, Nonemissive. C. V. Litton. 2,641,555, June 9.

Electrohydraulic system having a safety shutoff valve for its accumulator. A. F. Jelinek. 2,641,106, June 9.

Electromagnetic relay armature mounting and biasing. G. Deakin. 2,641,665, June 9.

Electromagnetic type of mixer. O. Wagner. 2,641,452, June 9.

Electron discharge device and method of fabrication. L. E. Cisne. 2,641,726, June 9.

Electron discharge device of the velocity variation type. W. G. Shepherd. 2,641,732, June 9.

Electron discharge device, Wave propagating. A. W. Lines. 2,641,731, June 9.

Electronic discharge tube. E. Touraton and C. Weill. 2,641,725, June 9.

Electronic limit control circuit. C. A. Schurr. 2,641,697, June 9.

Electrophysiotherapy apparatus. J. Batrow. 2,641,259, June 9.

Elevator control system. A. O. Lund. 2,641,337, June 9.

Engine: *See*—
Fluid-powered engine.

Engine rocker arm mechanism. J. C. Slonneger. 2,641,235, June 9.

Evaporator for uniform pressure absorption type refrigerators. W. L. Edel. 2,641,003, June 9.

Excavating and loading machine, Portable. C. O. Bjaaland. 2,641,372, June 9.

Exhaust system for gas turbine engines in aircraft. G. Oulianoff and C. A. Davis. 2,641,422, June 9.

Fabric: *See*—
Reversible fabric.

Feeding mechanism, Stock. E. R. Motch, Jr. 2,641,046, June 9.

Fencing post. I. A. Duke. 2,641,448, June 9.

Ferrous base chromium-nickel-titanium alloy. G. Mohling and W. W. Dyrkacz. 2,641,540, June 9.

Fertilizing implement, Tractor-mounted. H. Brock. 2,641,210, June 9.

Festoon drier. A. H. Pagell. 2,641,460, June 9.

Fiber from flax straw, Production of. S. D. Wells. 2,641,541, June 9.

Filter: *See*—
Suction cleaner filter.

Filter for purifying a liquid or gaseous fluid. J. Depallens. 2,641,364, June 9.

Filter mounting for suction cleaners. G. G. Hawk. 2,641,332, June 9.

Filter structure, Coaxial line. H. P. Thomas. 2,641,646, June 9.

Fin stiffeners for engine cylinders, Making. A. Panagrossi. 2,641,024, June 9.

Finishing of polyisobutylene. J. R. Quelly and S. A. Sankus. 2,641,620, June 9.

Firetube baffle insert with protected tip for heat exchangers. M. W. Stout. 2,641,206, June 9.

Firing mechanism for double-barreled guns, Single trigger. F. J. Crory. 2,641,076, June 9.

Fish landing funnel. W. F. Gearlen. 2,641,078, June 9.

Fish lure. G. E. Wise. 2,641,080, June 9.

Fish stop for dams. W. A. and V. H. Sibinski. 2,641,221, June 9.

Fishing reel. L. Cowen and N. N. Solovioff. 2,641,419, June 9.

Fishing reel. W. P. Kinsey. 2,641,417, June 9.

Fishing reel. J. W. Miller. 2,641,418, June 9.

Fishing tackle box. G. E. Moore. 2,641,520, June 9.

Fixture for testing card potentiometers. V. Ducasse. 2,641,631, June 9.

Flake removal for solvent extraction towers. C. H. Upton. 2,641,536, June 9.

Flareless rigid tube end fitting. R. R. La Marre. 2,641,487, June 9.

Flash spotter, Automatic. A. H. Canada. 2,641,156, June 9.

Flashing for corrugated buildings. O. A. Howe. 2,641,340, June 9.

Flavoring composition. J. W. Evans. 2,641,547, June 9.

Flavoring meat products. L. C. Parker. 2,641,544, June 9.

Floor for poultry houses, Auxiliary. W. T. and R. A. Seidel. 2,641,224, June 9.

Flue for deep-frying equipment. H. L. Hudson. 2,641,331, June 9.

Fluid control means for toilet flush tanks, Compressible. F. E. Wilt. 2,640,995, June 0.

Fluid fuel-fired heat radiation generator. F. M. Crossman. 2,641,313, June 9.

Fluid-powered engine. L. F. R. Bellows. 2,641,229, June 9.

Fluid proportioner. R. B. Pressler. 2,641,271, June 9.

Fluid system damage control. H. T. Booth. 2,641,277, June 9.

Flux pot, Welder's. R. F. Mason. 2,641,382, June 9.

Foldable wheel chair. M. A. Lerman. 2,641,306, June 9.

Food conditioner for cooking ranges. A. H. Brodbeck. 2,641,679, June 9.

Foot support device for exercising machines, Adjustable. E. W. Brockman. 2,641,240, June 9.

Form for molding concrete walls. C. M. Martin. 2,641,043, June 9.

Frame: *See*—
Gyroscopic rotor frame.

Fraud prevention device. R. K. Thompson, Jr. 2,641,348, June 9.

Freezer evaporator, Including check valve in header. F. A. Schumacher. 2,641,113, June 9.

Frequency control for telegraph receivers. D. Leypold, H. Rudolph, and H. Jurgens. 2,641,650, June 9.

Frequency correction device. H. Stover. 2,641,709, June 9.

Frequency responsive apparatus. J. L. Barker. 2,641,707, June 9.

Frozen comestibles, Manufacture of. C. W. Decker. 2,641,546, June 9.

Fuel control, Engine. D. J. Deschamps. 2,641,237, June 9.

Fuel gas treatment. P. W. Holthaus. 2,641,114, June 9.

Fuel pump. W. V. Falcon. 2,641,196, June 9.

Fuel pump. V. D. Roosa. 2,641,238, June 9.

Fungal amylase from butanol-acetone fermentation stillage, Preparing. S. C. Beesch. 2,641,568, June 9.

Furans and preparation. M. W. Goldberg and A. I. Rachlin. 2,641,601, June 9.

Furans and production. M. W. Goldberg and A. I. Rachlin. 2,641,597, June 9.

Furnace: *See*—
Electric induction furnace.

Furnace arch construction. C. F. Poilen. 2,641,207, June 9.

Furnace firing door for entrapping and releasing escape gases. L. L. Lowe. 2,641,209, June 9.

Fuse. R. Apothéloz. 2,641,186, June 9.

Game device, Racing. H. J. Murphy. 2,641,472, June 9.

Gardenia support. D. S. Shinoda. 2,641,086, June 9.

Garment, Armored. R. W. Ehlers. 2,640,987, June 9.

Garment form retainer. F. Y. Sherboudy. 2,641,390, June 9.

Garment hanger. W. H. Smith. 2,641,392, June 9.

Gas purification. K. E. Lewis. 2,641,526, June 9.

Gas-solid separator. C. H. O. Berg. 2,641,335, June 9.

Gate latch. A. E. Burris. 2,641,494, June 9.

Gauge: *See*—
Differential air gauge.
Pressure gauge.

Gear pump. P. G. Lindberg. 2,641,192, June 9.

Generator: *See*—
Fluid fuel-fired heat radiation generator.
Radio-frequency generator.
Vapor generator.
Pulse group generator.

Glare shield attachment, Eyeglass. E. R. Poole. 2,640,988, June 9.

Glazing. R. Touvay. 2,641,341, June 9.

Globe assembly, Indirectly illuminated. R. R. Dupier. 2,641,683, June 9.

Grain drier. R. F. Greiman. 2,641,063, June 9.

Graininess meter. M. H. Sweet. 2,641,158, June 9.

Grate, Automatically controlled ash removing. F. J. and E. West. 2,641,208, June 9.

Gripping tool. C. Petersen. 2,641,149, June 9.

Guide means on impeller for centrifugal pumps or blowers. A. Buchi. 2,641,191, June 9.

Gun barrel cooling means. C. E. Baillesen. 2,641,162, June 9.

Gyroscopic rotor frame. C. E. Barkalow. 2,641,132, June 9.

Hair trimmer. W. M. Mansfield. 2,641,055, June 9.

Halogen containing resin stabilized with an organo tin compound. W. E. Leistner and G. H. Knoepke. 2,641,588, June 9.

Halogenation products of 1,1-diphenyl-2,2-dimethylpropane. E. F. Rogers and H. D. Brown. 2,641,617, June 9.

Hammer action for musical instruments. J. D. Enochs and R. M. Brown. 2,641,153, June 9.

Handle: *See*—
Ratchet clutch handle.
Telescopic brush handle.

Handle connection, Brush. P. A. Fryda. 2,641,513, June 9.

Hanger: *See*—
Boot hanger.
Picture hanger.
Garment hanger.

Hanger guard, Garment. H. B. Tillery. 2,641,391, June 9.

Hanger with glide rollers, Pipe. J. B. Kirk and G. E. Miller. 2,641,428, June 9.

Harnessing wave power, Means for. S. J. Montgomery and I. P. Macnab. 2,641,108, June 9.

Harvester equipment and pneumatic method of loading and unloading same. A. D. Mast. 2,641,097, June 9.

Header. J. E. Loeffler. 2,641,284, June 9.

Headgear, Pocket-containing. K. Hassler. 2,640,992, June 9.

Hearing aid, Mechanical. J. R. Beaudry. 2,641,328, June 9.

Heat exchanger. E. W. Kaiser. 2,641,451, June 9.

Heat recovery apparatus. W. E. Schmertz. 2,641,456, June 9.

Heat-sealing apparatus, Continuous. V. M. Morrel. 2,641,166, June 9.

Heater. V. Mekler. M. J. P. Bogart, O. C. Schauble, and E. H. Paichik. 2,641,234, June 9.

Heater and incinerator, Double tank water. M. J. Tierney. 2,641,231, June 9.

Heater connector. B. R. Corson and A. V. Platter. 2,641,728, June 9.

Heater for bottled beverages. J. W. Taylor. 2,641,677, June 9.

Heater for fields, orchards, and the like. J. D. Robinson and H. A. Simpson. 2,641,085, June 9.

Heater for liquid cooled internal-combustion engines, Electrical head bolt replacement. G. H. Grinde and L. L. Wolf. 2,641,239, June 9.

Heating and vibrating means for plow moldboards. C. M. Rhoten. 2,641,173, June 9.

Heating unit. J. E. Chambers and T. E. Phares. 2,641,245, June 9.

Heating unit. L. L. Goosman. 2,641,232, June 9.

Heating unit, Induction. P. M. McKenna. 2,641,682, June 9.

Helium and mixtures thereof with carbon dioxide as fire extinguishants. R. L. Tuve. 2,641,323, June 9.

High-frequency tube. D. B. Harris and R. L. McCreary. 2,641,733, June 9.

High-voltage multiplier probe. G. N. Goldberger and V. I. Robinson. 2,641,630, June 9.

Hinge for low-temperature cabinets, Spring. W. O. Burke. 2,641,019, June 9.

Hinge joint. W. G. Snyder. 2,641,018, June 9.

Holder: *See*—
Toilet paper holder.

Hood latch. A. Claud-Mantle. 2,641,017, June 9.

Hopper for storing and shipping finely divided materials. P. Talmey and J. M. Gleason. 2,641,202, June 9.

Hose for suction cleaners, Making flexible. F. A. Martin and K. R. Warburton. 2,641,302, June 9.

Hose, Making flexible. J. E. Vance. 2,641,303, June 9.

Hose making machine. F. A. Martin and K. R. Warburton. 2,641,300, June 9.

Hose, Making suction cleaner. D. C. Gerber and J. E. Vance. 2,641,301, June 9.

Hosiery marking machine. G. C. Wendt and P. G. Wendt, Jr. 2,641,178, June 9.

Hydraulic expressor. N. J. Cavagnaro, Jr. and J. L. Cavagnaro. 2,641,122, June 9.

Hydraulic-mechanical transmission. A. G. Schneider. 2,641,144, June 9.

Hydrodynamic machine, Sliding vane type. W. Ferris. 2,641,195, June 9.

Hydrogenation of 1,1-diphenyl-2,2-dimethyl-propanol-1. E. F. Rogers and H. D. Brown. 2,641,618, June 9.

Hydrophone casing. R. I. Mason, J. F. Ripken, and H. F. Bernier, Jr. 2,641,751, June 9.

Hydrostatic level. C. E. Schmidt. 2,641,061, June 9.

Identification device. P. P. Richmond. 2,641,074, June 9.

Idler bearing seal. W. F. Bankauf, W. E. Herrmann, and H. M. Ross. 2,641,515, June 9.

Image-reproducing plate and cylinder assembly. J. A. Hoyajean. 2,641,183, June 9.

Impeller for centrifugal pumps, Balanced. T. W. Johnson. 2,641,190, June 9.

Increasing bending fatigue strength of rotary steel drill pipes, Method and means for. J. J. Dunn and W. O. Clinedinst. 2,641,488, June 9.

Incubator, Portable baby. G. Armstrong. 2,641,248, June 9.

Index file. H. E. Elsden. 2,641,260, June 9.

Indicating and/or controlling the level of liquid within an opaque container, Method of and apparatus for. I. Harter, Jr. 2,641,034, June 9.

Indicator: *See*—
Order indicator.
Thickness indicator.
Terrain clearance indicator.

Indicator for motion-picture cameras, Footage. J. Broldo. 2,641,059, June 9.

Indicator system for gas heated appliances. V. J. Evans. 2,641,750, June 9.

Inhaler. L. L. Leonaitis. 2,641,253, June 9.

Innersole construction, Composite. G. E. Musebeck. 2,641,069, June 9.

Insecticidal and acaricidal composition comprising propylene glycol and alkali ammonium sulfo sulfide. J. B. Moore. 2,641,563, June 9.

Insole, Reversible. C. J. Thompson. 2,641,068, June 9.

Instrument, Gyroscopically operated measuring. T. W. Kenyon. 2,641,134, June 9.

Instrument, Impedance measuring. G. R. Gamertsfelder. 2,641,632, June 9.

Iodomethylate compounds of the dimethyl xanthine series. A. J. M. Moussalli, A. Soubiran, and P. Chabrier. 2,641,598, June 9.

Ion exchange treatment of alcohol solutions. E. D. Unger, L. A. Smith, and H. F. Wilkie. 2,641,543, June 9.

Joining thin metallic sheets. H. S. Orr and A. Tepitts. 2,641,674, June 9.

Joint: *See*—
Hinge joint.
Sealed universal ball bearing joint.

Joint construction, Universal. C. L. Garrison. 2,641,115, June 9.

Joint for filter unit for suction cleaners. J. E. Vance. 2,641,486, June 9.

Keyboard, Composite. R. B. Johnson. 2,641,390, June 9.

Keyboard, Photoelectric. W. S. Oliwa. 2,641,753, June 9.

Key locked slidable bolt fastening for attaché and suitcases and the like. C. W. Cheney. 2,641,123, June 9.

Label applying machine. N. A. Zander. 2,641,377, June 9.

Ladder. H. James. 2,641,401, June 9.

Ladder work platform. M. B. McClure. 2,641,511, June 9.
Lamp: *See*—
  Adjustable bed lamp.
Lamp construction, Fluorescent hand. J. G. Pessina. 2,641,685, June 9.
Latch: *See*—
  Gate latch.
  Hood latch.
  Window screen latch.
Latching mechanism for doors for hopper type railway cars. A. E. Zimmer and G. B. Dorey. 2,641,198, June 9.
Lateral timer switch. G. O. Puecner, R. J. Aust, and L. Tulauskas. 2,641,661, June 9.
Lawn mower, Rotary cutting disk type. J. C. Sylvester. 2,641,100, June 9.
Lens, Contact. S. W. Silverstein. 2,641,161, June 9.
Lifter and setter, Pastry. T. M. and W. L. Benezet. 2,641,496, June 9.
Lifter for utensils and the like. J. L. Thomas. 2,641,497, June 9.
Lifting device. H. K. Hecker. 2,641,514, June 9.
Light for trains, Rotatable electrical marker. A. B. Carruthers. 2,641,686, June 9.
Light valve. C. A. Hisserich, M. C. Henderson, and K. K. Wyckoff. 2,641,640, June 9.
Lighter construction. L. Edelson. 2,641,118, June 9.
Lighting fixture having air-cooled lamp and ballast chamber, Fluorescent. W. S. Akely. 2,641,687, June 9.
Limb protector or guard. J. M. Woodward. 2,640,989, June 9.
Linear rectifier. C. A. Lovell. 2,641,695, June 9.
Line-contact transistor. J. I. Pantchechnikoff. 2,641,638, June 9.
Link for pipecutting tools, Detachable. J. B. Gill. 2,641,103, June 9.
Liquid fuel burner. E. H. Haugen. 2,641,189, June 9.
Lithium-calcium lubricating grease composition. R. O'Halloran. 2,641,577, June 9.
Load control apparatus. D. R. Hyer and E. E. Lynch. 2,641,716, June 9.
Loading device for dump trucks and the like. R. L. Pherson. 2,641,370, June 9.
Local transmitter frequency control circuit. E. Labin, S. Frankel, and M. Silver. 2,641,693, June 9.
Lock: *See*—
  Door lock.
  Telephone lock.
Lock for fifth wheel king pins. S. D. Gallagher and J. Lamversie. 2,641,124, June 9.
Lock mechanism, Coin control. W. W. Dennin. 2,641,347, June 9.
Lock nut, High-powered. E. V. Morley. 2,641,293, June 9.
Lock with key-way obstructing means, Cylinder. J. V. Oroquieta. 2,641,125, June 9.
Locking mechanism for hopper car doors, Door. G. B. Dorey. 2,641,199, June 9.
Loom beam, Adjustable. J. K. Cochran. 2,641,421, June 9.
Loose-leaf binder. J. B. Uthurriague. 2,641,261, June 9.
Loud-speaker diaphragm with transversely arched stiffener means. S. E. Levy and A. B. Cohen. 2,641,329, June 9.
Lubricating oil, Compounded. C. A. Weisel. 2,641,578, June 9.
Luggage carrier for vehicles. B. A. Parr. 2,641,396, June 9.
Lure with improved weed guard. H. S. Moore. 2,641,081, June 9.
Machine drive. F. W. Schnell. 2,641,141, June 9.
Machine for cutting strips of textile fabrics. I. Pasold. 2,641,317, June 9.
Machine for fashioning end portions of prismatic bodies. D. L. Leslie and R. H. Mustonen. 2,641,090, June 9.
Machine for heat-treating ties. G. F. Wikle and C. E. Todd. 2,641,021, June 9.
Machine for packaging stacked hollow ware such as nested paper cups or the like. W. T. Buchbank. 2,641,095, June 9.
Machine for the continuous application of foam rubber cushioning to a carpet. J. Marco. 2,641,296, June 9.
Magnesia, Production of. L. W. Austin. 2,641,529–30, June 9.
Magnesium oxide, Preparation of. J. C. Hicks. 2,641,532, June 9.
Magnetic holding fixture for soldering terminals. E. E. Meilstrup. 2,641,212, June 9.
Magnetic sheet material provided with a separator coating and making same. J. C. Robinson. 2,641,556, June 9.
Massaging device. F. W. Schmidt. 2,641,256, June 9.
Mastic joint installing machine. J. W. Heltzel. 2,641,168, June 9.
Material discharging means. J. C. Petrea. 2,641,435, June 9.
Material spreading box. S. J. Davis and W. W. Thomason. 2,641,477, June 9.
Meat patty forming and sealing machine. F. F. Starzyk. 2,641,094, June 9.
Mercury rectifier tube. R. S. Tice. 2,641,724, June 9.
Metal coating composition. H. G. Smith, T. L. Cantrell, and E. E. Fisher. 2,641,551, June 9.
Metal frame for upholstered furniture. G. Ingram, Jr., and H. Howe. 2,641,311, June 9.
Metatarsal length compensating device. L. Filardo. 2,641,066, June 9.
Meter: *See*—
  Graininess meter.
Meter pickup, Detonation. M. M. Adams. 2,641,719, June 9.
Method and mechanism for shuttleless looms. M. R. Flamand. 2,641,285, June 9.
Microwave device. D. H. Sloan. 2,641,734, June 9.
Mixed acetals of 2-propyn-1-ol. R. F. Kleinschmidt. 2,641,615, June 9.
Mixer: *See*—
  Electromagnetic type of Pin mixer.
  mixer.
Mixer and grinder, Feed. J. J. Byberg. 2,641,412, June 9.
Mixing machine discharge door. A. C. Christensen. 2,641,387, June 9.
Molding apparatus. R. J. Hines and A. C. Hintz. 2,641,033, June 9.
Motor and transmission compartment for washing machines. E. F. Rauscher. 2,641,426, June 9.
Motor control system, Electronic. W. H. Elliot. 2,641,735, June 9.
Motor fuels from petroleum oils, Production of. J. Weikart. 2,641,573, June 9.
Motor system, Generator controlled. R. L. Jaeschke. 2,641,736, June 9.
Mounting: *See*—
  Shock and vibration isolating mounting.
  Telescope mounting.
  Torsion spring supported pedestal seat mounting.
  Tractor seat mounting.
Mounting member for furniture and the like. L. G. Simjian. 2,641,310, June 9.
Mounting thickness shear mode quartz crystal oscillator plates. W. H. E. Samuelson. 2,641,718, June 9.
Moving mechanism for photographic range finders. M. Schwartz and W. Castedello. 2,641,157, June 9.
Mullite-containing refractories, Manufacturing. L. C. Bearer. 2,641,044, June 9.
Multiple outlet connector. G. Harpster. 2,641,745, June 9.
Multiplier, Electronic. A. H. Dickinson. 2,641,407, June 9.
Multivibrator, Transitor one-shot. D. H. Toth. 2,641,717, June 9.
Musical instrument, Stringed. H. M. Hise. 2,641,152, June 9.
Nap deflector and valve control for vacuum cleaner nozzles. J. B. Lovick. 2,641,015, June 9.
Needle threader. W. A. Cotter. 2,641,394, June 9.
Netmaking and gauging tool. W. F. Lowe. 2,641,155, June 9.
Nozzle, Spray. C. E. Yost. 2,641,509, June 9.
Numbers comparator, Binary. S. B. Woolard. 2,641,606, June 9.
Obtaining volatile flavors. K. G. Dykstra and D. De Felice. 2,641,550, June 9.
Oil-control means for slide valve internal-combustion engines. R. L. Skinner. 2,641,241, June 9.
1,8-dihydroxy-5-nitro-4-hydroxyethylphenyl aminoanthraquinone compounds. J. M. Straley and J. B. Dickey. 2,641,602, June 9.
Optical record reading device. H. P. Luhn. 2,641,714, June 9.
Order indicator. J. W. Major. 2,641,073, June 9.
Organic derivatives of tetravalent tin. W. E. Leistner, and A. C. Hecker. 2,641,596, June 9.
Oscillator, Crystal controlled modulated. G. Peterson. 2,641,741, June 9.
Oscillator, Stabilized. L. W. Hussey. 2,641,705, June 9.
Overall with strap arrangement. T. H. Orenge. 2,640,990, June 9.
Paper clip applicator. E. H. Vick. 2,641,051, June 9.
Paper punching machine, Automatic. C. C. Cruzan. 2,641,321, June 9.
Paper with improved printing characteristics. B. K. Green. 2,641,557, June 9.
Penicillins, Producing. D. Perlman and A. F. Langlykke. 2,641,567, June 9.
Periclase, Preparation of. L. W. Austin and C. A. Rick. 2,641,531, June 9.
Phase comparison electronic relay protective system. D. J. Marihart. 2,641,634, June 9.
Phase shifting or delay network. M. Artzt. 2,641,645, June 9.
Phonograph, Record changing. J. S. Zandelin. 2,641,474, June 9.
Phonograph stylus. B. B. Bauer. 2,641,475, June 9.
Photocell sensitive to electromagnetic radiations. G. Tommasi. 2,641,711, June 9.
Photoelectric device. R. J. Kircher. 2,641,712, June 9.
Photoelectric device, Semiconductor. J. N. Shive. 2,641,713, June 9.
Photographic time recording. J. C. Beckman and E. M. Whitley. 2,641,523, June 9.
Photopolymerization process and compositons. C. C. Sachs and J. Bond. 2,641,576, June 9.
Picture hanger. J. I. Krogh. 2,641,427, June 9.
Pin curl clip. L. E. Thatcher. 2,641,266, June 9.
Pin mixer. R. R. Teale. 2,641,453, June 9.
Pipe: *See*—
  Smoker's pipe.
  Smoking pipe.
Pipe cleaning apparatus, Sewer. G. I. Pierce. 2,641,009, June 9.
Pipe fitting, Valved. G. M. Dupuy. 2,641,485, June 9.

Pipe reconditioning machine. O. R. Smith. 2,641,008, June 9.
Planetary transmission. G. F. L. N. Saraceni. 2,641,143, June 9.
Plastic film, Manufacturing. R. G. Kress. 2,641,022, June 9.
Pleater, Drapery. E. J. Martens. 2,641,313, June 9.
Plow and moldboard adjustment for ditch digging plows. C. H. Brown. 2,641,071, June 9.
Plow, Two-way tractor mounted. M. T. Hedquist, K. Harroun, D. D. Mayhew, A. Van De Sampel, and A. J. Whalen. 2,641,171, June 9.
Plug-in electrical receptacle. W. P. Keller. 2,641,746, June 9.
Pneumatic signaling. E. J. Poitras. 2,641,689, June 9.
Point electrode for semiconductor devices. B. N. Slade. 2,641,639, June 9.
Polyamide resins. H. M. Teeter and J. C. Cowan. 2,641,593, June 9.
Polyethylene terephthalate with cobaltous acetate as catalyst, Production of. C. H. Hofrichter, Jr. 2,641,592, June 9.
Portable feed grinder carrier. L. Carlson. 2,641,326, June 9.
Positioning and registering printing members on cylinders of rotary presses, Means for. E. Leeberg. 2,641,181, June 9.
Positioning structure for revolver holsters. B. Engle. 2,641,395, June 9.
Pothead. J. O. Jackson. 2,641,628, June 9.
Pouring ingots. W. F. Walter, Jr., and W. J. Wysor. 2,641,525, June 9.
Power-operated toolholder. L. E. Lee. 2,641,151, June 9.
Power transmission. G. M. Jones and H. H. Duvall. 2,641,194, June 9.
Power transmission. E. Klepetko, Jr. 2,641,142, June 9.
Power transmission. E. F. Klessig. 2,641,193, June 9.
Power transmission and drive control theretor. E. R. Maurer and J. D. Caton. 2,641,140, June 9.
Preserving avocados. H. W. Heinrich. 2,641,548, June 9.
Pressure gauge. C. C. Waugh. 2,641,131, June 9.
Pressure operated collapsible valve. W. A. Hazlett. 2,641,282, June 9.
Pressure pickup. C. M. Wolfe and J. E. Miller. 2,641,742, June 9.
Pressure regulating and selecting system for aircraft instruments. S. M. Clippinger. 2,641,274, June 9.
Pressure relief valve. A. D. Eplett and F. H. Hopkins. 2,641,278, June 9.
Preventing discoloration of fuel oil. R. B. Thompson and J. A. Chenicek. 2,641,539, June 9.
Preventing discoloration of fuel oils. R. B. Thompson and J. A. Chenicek. 2,641,538, June 9.
Priming device for starting engines. I. Levine. 2,641,240, June 9.
Printed electrical conductor. W. H. Hannahs. 2,641,675, June 9.
Printing suppression mechanism for teletypewriters. S. W. Beylnod. 2,641,644, June 9.
Printing textile fabric. P. L. Meunier and R. J. Summerill. 2,641,554, June 9.
Processing fibrous pulp. H. Hill and J. T. Coghill. 2,641,164, June 9.
Producing articles from rubber. C. W. Heijne den Bak and R. R. Laupman. 2,641,023, June 9.
Protective book cover. A. Brody. 2,641,484, June 9.
Pulley. E. D. Meadows. 2,641,317, June 9.
Pulse counter. C. E. Hallmark. 2,641,094, June 9.
Pulse group generator. C. H. Hoeppner. 2,641,700, June 9.
Pulse time modulation system, Multiplex. P. F. M. Gloess and L. J. Libois. 2,641,699, June 9.
Pump: *See*—
  Fuel pump.
  Gear pump.
  Reciprocating electromagnetic pump.
  Stripper pump.
Pump with movable cylinder, Reciprocating. S. L. Stone. 2,641,197, June 9.
Pumping device. J. W. Houston. 2,641,283, June 9.
Purification of chemical compounds. L. P. Ellinger. 2,641,616, June 9.
Rack: *See*—
  Adjustable oven or broiler rack.
  Vial rack.
Radio communication system, Short-wave directional. E. H. B. Hartelink. 2,641,755, June 9.
Radio echo pulse system for vehicle following a fixed route. P. R. Adams. 2,641,688, June 9.
Radio-frequency generator. D. H. Preist. 2,641,658, June 9.
Radio index punch. R. B. Herbert and W. E. Fox. 2,641,319, June 9.
Radiological gas analysis. D. J. Pompeo and J. W. Otvos. 2,641,710, June 9.
Radome panel, Sandwich-type. E. A. Black. 2,641,561, June 9.
Rake, High lift side delivery. P. H. Harrer. 2,641,098, June 9.
Range, Combination. M. J. Maier. 2,641,244, June 9.
Ratchet clutch handle. T. R. Yess. 2,641,201, June 9.
Ratchet wrench. M. B. Maraden, Jr., and J. H. Maraden. 2,641,136, June 9.
Razor blade dispenser. D. C. Santo. 2,641,358, June 9.
Receptacle: *See*—
  Plug-in electrical receptacle.
Receptacle holding and supporting apparatus. H. F. and A. W. Wetzel. 2,641,367, June 9.
Reciprocating electromagnetic pump. K. D. Aumick and J. W. Dickey. 2,641,188, June 9.
Recording and reproducing apparatus, Sound. R. H. Dicke. 2,641,656, June 9.
Recording means of missile dispensing tubes of angle determining devices. T. O. Brandon. 2,641,521, June 9.
Recovery of hydrocarbons. C. E. Zoltell. 2,641,566, June 9.
Recovery of sulfur from gases. K. E. Leutz. 2,641,527, June 9.
Recurrent process controller. E. H. C. Brown and I. Lefkowitz. 2,641,316, June 9.
Reduction drive useful for Venetian blinds. G. C. Lawson. 2,641,145, June 9.
Reel: *See*—
  Fishing reel.
Reel for magnetic wire recorders, Wire. H. L. Rumsey and M. C. Abbott. 2,641,420, June 9.
Refining of glyceride oils. R. Clayton. 2,641,603, June 9.
Refrigerating system, Multitemperature. G. Muffly. 2,641,109, June 9.
Refrigeration apparatus and method. R. H. Bishop. 2,641,111, June 9.
Refrigeration of railroad cars, Method and system for. R. D. Pike. 2,641,110, June 9.
Refrigerator-cabinet defrosting. G. Muffly. 2,641,112, June 9.
Regeneration of a platinum-containing catalyst. V. Haensel. 2,641,582, June 9.
Registering device for use on motor vehicles, Fuel. J. F. Truckenbrodt. 2,641,129, June 9.
Regulating means for gas turbine installations. P. Fortescue. 2,641,324, June 9.
Regulator: *See*—
  Window regulator.
Regulator responsive to phase difference of two currents, Electric. D. J. Sikorra. 2,641,738, June 9.
Relining brakes. J. Barbaro. 2,641,379, June 9.
Remote control device for multiple-speed gear boxes. F. D'Ozouville. 2,641,637, June 9.
Removal of objectionable sulfur compounds from mineral oil distillates. K. E. Leutz. 2,641,571, June 9.
Removing sulfur from petroleum hydrocarbons and apparatus. C. E. Zoltell. 2,641,564, June 9.
Replacement T or fitting. F. H. Mueller and W. J. Bowan. 2,641,491, June 9.
Reproduction by grinding, Method and means for the. E. Fouquet. 2,641,089, June 9.
Reversible fabric. J. B. Meister and M. N. Stern. 2,641,045, June 9.
Revertive call circuits. F. A. Morris. 2,641,652, June 9.
Roller and ball bearing, Combined. A. Bakane. 2,641,516, June 9.
Roofing retainer. H. C. Young. 2,641,204, June 9.
Rotor blade locking. P. D. Comery and J. T. Purvis. 2,641,443, June 9.
Salt brine, Production of. J. A. Dunn and H. W. Diamond. 2,641,537, June 9.
Sandals, Making platform. C. Raphaell and I. Minkov. 2,641,005, June 9.
Sanding, scraping, and polishing machine. E. List. 2,641,721, June 9.
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Saw carriage for lumber trimming machines, Double. C. Hickendorfer, Jr., and W. S. Brownfield. 2,641,288, June 9.
Scarfing tip, Sectional block-type. H. G. Hughey. 2,641,312, June 9.
Screw driver. J. A. Sigg. 2,641,478, June 9.
Screw holding attachment for screw drivers, Magnetic. B. C. Webb. 2,641,290, June 9.
Scrubbing device for amputees, Hand. M. F. L. Hesselgesser. 2,641,013, June 9.
Sealed universal ball bearing joint. W. A. Fiumerfelt. 2,641,492, June 9.
Sealing closure. L. E. E. Gosnet. 2,641,037, June 9.
Sealing machine. G. B. Biddinger and J. B. Hanner. 2,641,304, June 9.
Sealing means for pressure vessels. J. V. Bertrand. 2,641,381, June 9.
Sealing strip severing machine. D. Brody. 2,641,318, June 9.
Seat for motor vehicles. J. R. Olshei. 2,641,305, June 9.
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Shield, Lip. R. J. Ernst. 2,640,991, June 9.
Shock absorber for railway car trucks, Friction. W. E. Withall. 2,641,462, June 9.
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Shoe uppers of shrinkable yarn, Producing knitted. D. V. Whiting and J. S. Runyan. 2,641,004, June 9.
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Shoes, Making prewelt. H. Lipton. 2,641,006, June 9.
Shoulder pad structure. J. L. Kleinman. 2,640,993, June 9.

Signal and detachable securing means for fishing rods, Audible. S. E. Oster. 2,641,079, June 9.
Signaling device for typewriters, Page end. H. A. Ault. 2,641,350, June 9.
Signaling system, Electrical pulse code. M. M. Levy. 2,641,740, June 9.
Silica gel spheres in oil, Producing. J. L. Gring. 2,641,583, June 9.
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Snubber for railway car truck springs, Friction. H. W. Mulcahy. 2,641,463, June 9.
Soft surface cured cheese, Manufacture of. J. H. Kraft. 2,641,545, June 9.
Soldering lug. A. C. Peters. 2,641,748, June 9.
Speed reducer device. L. E. Belsner. 2,641,139, June 9.
Spindle bearing assembly. J. M. Traumell. 2,641,518, June 9.
Split collar mounting tool. W. J. Williams and J. W. E. Hanes. 2,641,054, June 9.
Spotlight and flare for automotive vehicles. N. M. Naymik. 2,641,752, June 9.
Spout, Collapsible pouring. C. W. Meyers. 2,641,386, June 9.
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Sprayer for chemical herbicides, Power. M. Valois. 2,641,505, June 9.
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Spring coil for cushions, mattresses, and the like. D. I. Levine. 2,641,758, June 9.
Spring for hinged cases. E. S. Irelan. 2,641,360, June 9.
Spring suspension for two-wheeled vehicles, Parallel twinflex. W. M. Price. 2,641,483, June 9.
Stairway, Moving. R. C. Riley. 2,641,351, June 9.
Stamping apparatus for frangible articles. J. S. Campbell, W. Brown, and G. A. Douglas. 2,641,179, June 9.
Stanchion, Cattle shipper's. J. A. Ne Casek. 2,641,222, June 9.
Staple fiber products, Manufacture of. W. I. Taylor. 2,641,027, June 9.
Staple having deflecting points. H. S. Heller. 2,641,154, June 9.
Steel hatch cover. R. and J. MacGregor. 2,641,214, June 9.
Steering and braking mechanism for trenchers. R. N. Bennett. 2,641,343, June 9.
Steering system, Automatic. C. H. Bolin. 2,641,213, June 9.
Streamline depth charge. R. H. Park, R. Weller, A. G. Russell, and S. W. Booth. 2,641,184, June 9.
Stripper pump. M. A. Adams. 2,641,187, June 9.
Studio couch slip cover. F. K. Krasnov. 2,641,001, June 9.
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Suction cleaner filter. M. H. Ripple. 2,641,334, June 9.
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Key support.
Support. E. Ostberg. 2,641,425, June 9.
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Sweetening petroleum oils. H. A. Ricards, Jr., B. M. Vanderbilt, and E. Arundale. 2,641,570, June 9.
Switch: *See*—
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Switch and fastener, Combined. J. W. Liley. 2,641,662, June 9.
Switch for operating artificial limbs. S. W. Alderson. 2,640,994, June 9.
Switch for ranges, Safety. C. M. Hardy. 2,641,678, June 9.
Switch operating apparatus, Railway. H. L. Bone. 2,641,691, June 9.
Switch wipers, Making rotary. K. W. Graybill and H. Sengebusch. 2,641,050, June 9.
Swivel connection between windshield wiper blade unit and arm. F. A. Krohm. 2,641,007, June 9.
Synthetic fiber preparation from solutions of acrylonitrile polymers in dimethyl phosphite. G. E. Ham. 2,641,585, June 9.
Syringes with interchangeable pistons and barrels, Manufacturing glass. S. Kolodny, N. Micci, and N. Krueger. 2,641,093, June 9.
Table: *See*—
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Tail cone having radially adjustable wall. J. Y. Estabrook. 2,641,104, June 9.
Take-up for knitting machines. A. X. Desmonds. 2,641,117, June 9.
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Telegraph reading and repeating system, Electronic code. W. S. W. Edgar, Jr. 2,641,651, June 9.
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Telephone system, Mobile radio. B. F. Lewis. 2,641,692, June 9.
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Telescopic brush handle. F. O. Storrs. 2,641,012, June 9.
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Temperature control system having means to measure turbine inlet temperature indirectly. J. A. Drake. 2,641,105, June 9.
Terrain clearance indicator. J. E. Clegg. 2,641,754, June 9.
Tetra esters of diphosphoric acid, Production of. L. W. Harris, G. R. Sanders, and C. C. Cassil. 2,641,606, June 9.
Therapeutic compound and preparing the same. R. U. Schock, Jr. and D. L. Tabern. 2,641,609, June 9.
Therapeutic table. A. Hemming. 2,641,252, June 9.
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Thermostat, Surface. P. F. Shivers. 2,641,667, June 9.
Thickness indicator. F. D. McCormack. 2,641,058, June 9.
Thixotropic compositions. B. W. Nordlander and J. A. Loritsch. 2,641,586, June 9.
Thixotropic compositions. B. W. Nordlander and R. E. Burnett. 2,641,587, June 9.
Threading machine, Bead. R. Bagdon. 2,641,380, June 9.
Thumbtack applicator. K. Bygbjerg. 2,640,985, June 9.
Time break recording in seismic prospecting. F. L. Lawrence. 2,641,749, June 9.
Timing device. T. Moore. 2,641,701, June 9.
Tire, Electric current discharge rubber. G. P. Bridgefield. 2,641,294, June 9.
Tire, Multichamber pneumatic. J. B. Des Rosiers. 2,641,295, June 9.
Toaster, Electric. L. J. Fichter. 2,641,175, June 9.
Tobacco dispenser. M. Friedman. 2,641,361, June 9.
Toilet paper holder. B. E. Moriarty. 2,641,415, June 9.
Tool: *See*— Split collar mounting tool.
Cutting tool.
Gripping tool.
Netmaking and gauging tool.
Tool for replacing bottle caps and recrimping the caps in an airtight seal. H. H. Sander. 2,641,397, June 9.
Tool for upsetting hollow rivets, Hand-powered. H. E. Wilt. 2,641,378, June 9.
Toolholder. W. L. Kennicott. 2,641,049, June 9.
Tooth means for side-delivery rake. A. R. Redrow. 2,641,101, June 9.
Torsion spring supported pedestal seat mounting. H. W. Bostrom, F. A. Grabarczyk, and F. E. Svanoe. 2,641,309, June 9.
Toy pistol. R. B. Dickson. 2,641,242, June 9.
Toy, Wheel actuated display. A. J. Charles. 2,641,083, June 9.
Track switch. A. J. McLeish. 2,641,690, June 9.
Tractor seat mounting. J. Bock. 2,641,308, June 9.
Transferring heat by a powdered thermophore in a state of dense phase fluidization. P. W. Garbo. 2,641,450, June 9.
Transformer. J. L. Bonanno. 2,641,743, June 9.
Transmission device, Radio-frequency. D. H. Preist and B. O. Ballou. 2,641,657, June 9.
Transmission mechanism, Power. D. C. Orcutt and C. J. Dry. 2,641,137, June 9.
Transmitting heat. E. Da Fano. 2,641,581, June 9.
Tread for vehicles, Endless. C. I. Leveke. 2,641,512, June 9.
Treatment of carbon black with oxyhalides. M. R. Cines and W. T. Nelson. 2,641,533, June 9.
Treatment of furnace blacks. M. R. Cines. 2,641,535, June 9.
Treatment of shale. R. T. Sanderson. 2,641,565, June 9.
Triorganosilylbenzaldehydes. K. C. Frisch and P. D. Shroff. 2,641,605, June 9.
Truck, Industrial. C. W. Chanda. 2,641,336, June 9.
Truck, Stair lift hand. G. L. Hoffman and S. J. Petersen. 2,641,325, June 9.
Tub and top construction for dishwashers. H. O. Smith. 2,641,380, June 9.
Tube: *See*—
Electronic discharge tube. Velocity modulation amplifier tube.
High frequency tube.
Mercury rectifier tube.
Television image analyzing tube.
Tube circuit structure, Subminiature electron. R. K. Seal and C. O. Lindseth. 2,641,635, June 9.
Tuning device. G. W. Wallin. 2,641,647, June 9.
Turbine. A. Büchi. 2,641,442, June 9.
Turbine blade with cooling means and carrier therefor. S. B. Williams. 2,641,440, June 9.
Turbine governor. A. Nilson and R. F. Onsrud. 2,641,441, June 9.
Turbine or compressor blade, Cooled. S. B. Williams. 2,641,439, June 9.
Turning attachment for drill presses. G. M. Harry. 2,641,150, June 9.
Two-sided mosaic, Preparation of. R. L. Rullson and G. K. Teal. 2,641,553, June 9.
Undergarment. G. E. Rutledge. 2,641,257–8, June 9.
Universal filler with hopper and counter mechanism controlled auger feeder therein. G. D. Mateer. 2,641,384, June 9.
Unsaturated nitriles, Preparing. C. J. Albisetti, Jr., and N. G. Fisher. 2,641,607, June 9.

Vacuum cleaner. G. E. Lofgren, R. C. Lampe, and J. T. Ferraris. 2,641,330, June 9.
Valve: *See*—
Changeover valve. Pressure operated collapsible valve.
Double acting valve. Pressure relief valve.
Light valve.
Valve actuator for flush tanks, Inlet. R. W. Stambaugh. 2,641,275, June 9.
Valve assembly, Pilot controlled multiple. H. A. Phillips. 2,641,281, June 9.
Valve drive for piston valve and sleeve valve steam engines, Outside. H. M. Arnold. 2,641,230, June 9.
Valve for branch pipe lines, Automatic control. H. G. Fleischhauer. 2,641,280, June 9.
Valve for fuel burners, Automatic cutoff. B. Douvan. 2,641,314, June 9.
Valve for heavy duty sandblast hose, Remote control. H. A. Greiser. 2,641,087, June 9.
Valve for hydraulic actuating cylinders, Control. L. E. Baldwin. 2,641,279, June 9.
Valve for steam engines, Delayed opening poppet. H. M. Arnold. 2,641,438, June 9.
Valve mechanism for hydraulic motors, Control. C. E. Adams. 2,641,228, June 9.
Valve removal wrench. R. Fennema and G. E. Hansen. 2,641,052, June 9.
Valve with supplemental cam actuator, Check. C., B., and J. Jay. 2,641,437, June 9.
Vane type thermal switch. P. Sitzer. 2,641,666, June 9.
Vanillic acid diethylamide. K. Kratsl and E. Kvasnicka. 2,641,612, June 9.
Vapor generator. H. H. Hemenway and J. F. Thunstrom. 2,641,233, June 9.
Variable pitch pulley. J. Janow. 2,641,138, June 9.
Variable resonant structure. W. L. Carlson. 2,641,708, June 9.
Vehicle: *See*—
Banking automotive vehicle.
Vehicle having offset radiator and tire located adjacent thereto. B. Walker. 2,641,500, June 9.
Vehicle indicator optical projection device. A. I. Mihalakis. 2,641,159–60, June 9.
Velocity modulation amplifier tube. E. Touraton, A. Piquet, and C. Dumousseau. 2,641,730, June 9.
Vial rack. D. M. Brown. 2,641,368, June 9.
Vibrator, Electromagnetic. D. A. Stewart. 2,641,720, June 9.
Vinylidene bis(hydrocarbon sulfones) and their polymers. A. L. Barney. 2,641,594, June 9.
Visor and light for automobile interior. V. J. Dillon. 2,641,684, June 9.
Voltage controller. R. J. C. Roquet. 2,641,739, June 9.
Voltmeter, Attenuating vacuum tube. D. Gurevics. 2,641,626, June 9.
Wall construction and clip therefor. N. Nelsson. 2,641,035, June 9.
Washing machine, Print. C. W. Hutchins. 2,641,170, June 9.
Watercraft, Foot-powered. F. Shelverton. 2,641,217, June 9.
Water repellence fixative treatment. S. F. Urban and W. B. Blumenthal. 2,641,358, June 9.
Wave shaping circuit. R. H. Pierce. 2,641,649, June 9.
Wax refining process. W. M. Maree and A. B. Swart. 2,641,569, June 9.
Weigher, Automatic. H. Schmid and A. P. Hobush. 2,641,436, June 9.
Weighing apparatus. C. B. McHale and E. H. Janssen. 2,641,459, June 9.
Weighing device, Torsion. K. R. Larson. 2,641,460, June 9.
Welding apparatus. R. E. Dahl. 2,641,673, June 9.
Well fluid stabilizer. A. C. Hartsell. 2,641,322, June 9.
Wheel for balers or the like, Safety. S. D. Russell. 2,641,116, June 9.
Wheel for rail vehicles. P. M. Bourdon. 2,641,498, June 9.
Wheel suspension. B. J. Schill. 2,641,510, June 9.
Wheel suspension mechanism for road vehicles. K. Wilfert. 2,641,482, June 9.
Window and actuating mechanism therefor, Louver. N. W. Snow. 2,641,465, June 9.
Window regulator. C. C. Jackson. 2,641,468, June 9.
Window screen latch. W. W. Flugrath. 2,641,493, June 9.
Windshield for convertible automobiles, Auxiliary. L. G. Gunion and J. Clarkson. 2,641,502, June 9.
Wire bracket for tubular rails. F. A. Bielak and W. H. Neely. 2,641,432, June 9.
Wire tracer. H. W. Hosford, Jr. 2,641,633, June 9.
Worm gear lapping apparatus. D. E. Wilcox. 2,641,088, June 9.
Wound package liner-wrapper. K. L. Hall. 2,641,102, June 9.
Wrapping machine. C. P. Dyken. 2,641,414, June 9.
Wrapping machine, String. E. L. Estes. 2,641,084, June 9.
Wrench: *See*—
Ratchet wrench. Valve removal wrench.
Writing implement with yieldably supported scribing element. C. R. Patterson. 2,641,226, June 9.
Zero splits. F. E. Hamilton. 2,641,180, June 9.
Zeroising mechanism for computer machines. T. A. Bell. 2,641,411, June 9.

CLASSIFICATION OF PATENTS

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CLASSIFICATION OF DESIGNS

D 3—12: Des. 169,831
19: Des. 169,803
D10— 9: Des. 169,813
D15— 8: Des. 169,810
11: Des. 169,805
Des.169,818

D21— 6: Des. 169,811
D26—14: Des. 169,824
D29—28: Des. 169,833
D31— 4: Des. 169,816
169,826
D33— 3: Des. 169,832

D33—14: Des. 169,819
D34— 4: Des. 169,802
5: Des. 169,801
14: Des. 169,823
D44— 1: Des. 169,829
10: Des. 169,817

D44—29: Des. 169,827
Des. 169,830
D45—16: Des. 169,814
Des. 169,815
Des. 169,828
17: Des. 169,804

D47— 7: Des. 169,822
D48—31: Des. 169,796
Des. 169,809
32: Des. 169,820
D58— 2: Des. 169,812
D71— 1: Des. 169,807

D80— 9: Des. 169,806
D81—10: Des. 169,800
26: Des. 169,799
D86— 8: Des. 169,808
D87— 3: Des. 169,825
D92— 1: Des. 169,821

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

GERMESHAUSEN *v.* HILLIARD

No. 5910. Decided February 6, 1953. Petition for rehearing denied March 16, 1953. Renewed petition for rehearing denied April 10, 1953.

[201 F.2d 896; 96 USPQ 387]

1. WORDS AND PHRASES—"SEALED."

Held that there was no error in the Board's holding that the term "sealed" means securely fastening one element to another and that when two objects are "sealed" together something more is required than a mere tight fit between them.

2. INTERFERENCES—ORIGINALITY—BURDEN OF PROOF NOT CARRIED BY NEGATIVE REASONING.

Since the appellant, as junior party, must carry the burden of proving by competent evidence that he disclosed the invention to the appellee, if he is to establish that this is an originality interference, *Held* that negative reasoning, based upon lack of testimony that appellee independently conceived the invention, cannot induce the positive results sought and appellant does not thereby satisfactorily carry the burden of proof.

3. SAME—DILIGENCE—EDUCATION IN UNRELATED ART NOT DILIGENCE.

Held that the Board of Interference Examiners was correct in holding that the employment of critical time, by the appellant's attorney, to gain knowledge of an entirely unrelated art cannot be considered as diligence.

4. SAME—PRIORITY OF INVENTION—ELECTRIC DISCHARGE TUBE.

The decision of the Board of Interference Examiners awarding priority of invention of the counts in issue to appellee is affirmed.

APPEAL from Patent Office. Interference No. 83,706.

AFFIRMED.

Rines and Rines for appellant.

Paul S. Martin for appellee.

COLE, *J.*:

That he is the original and first inventor of certain new and useful improvements in gaseous discharge devices is the claim of the appellant in this case. More specifically, the claim is directed to a particular type of cold cathode, gaseous electric-discharge tube known in the art as the Strobotron.

On February 7, 1946, appellant filed his application for the issuance of a patent covering the alleged improvements. On February 8, 1949, an interference proceeding was instituted and declared between his application and a patent (Number 2,433,813) granted December 30, 1947, to appellee herein upon an application dated August 23, 1945, for a similar invention. The Sylvania Electric Products Company is the assignee of the patentee-appellee, Robert C. Hilliard, the latter being in the employ of Sylvania at the time of the filing of his application.

All six claims of the Hilliard patent are in issue, and read as follows:

1. In an electric discharge tube, a graphite electrode and a glass support sealed thereto, and a lead-in wire sealed through the glass support and extending into, but spaced from, said graphite electrode to act as an anode.

2. In an electric discharge tube, a graphite electrode and a glass support sealed thereto and a lead-in wire sealed through the glass support and extending into, but spaced from, said graphite electrode, said lead-in wire acting as an anode and being composed of tantalum.

3. In an electric discharge tube, a cathode of material capable of forming a cathode spot, an insulating cup for the part of said cathode away from the discharge, an annular metal cover for the part of said cathode facing the discharge, and a metal shield spaced from but in register with the center of said annulus.

4. In an electric discharge tube, a cathode of material capable of forming a cathode spot, an insulating cup for the part of said cathode away from the discharge, an annular metal cover for the part of said cathode facing the discharge, said annular ring acting as a control grid for the discharge, and a metal shield spaced from, but in register with, the center of said annulus.

5. In an electric discharge tube, a cathode of material capable of forming a cathode spot, said material comprised of caesium chloride and aluminum highly compressed, an insulating cup for the part of said cathode away from the discharge, an annular metal cover for the part of said cathode facing the discharge, said annular ring acting as a control grid for the discharge, and a metal shield spaced from but in register with the center of said annulus.

6. In an electric discharge tube, a graphite electrode and a glass support sealed thereto and a lead-in wire anode composed of tantalum, sealed through the glass support and extending into, but spaced from, said granhite electrode and a cathode of material capable of forming a cathode spot, said material comprised of caesium chloride and aluminum highly compressed into a "pill," an insulating cup for the part of said cathode away from the discharge, an annular metal cover for the part of said cathode facing the discharge, and a metal shield spaced from but in register with the center of said annulus.

The Board of Interference Examiners in an original decision and a further decision on reconsideration awarded priority of invention as to all six counts in issue to the senior party, Robert C. Hilliard.

Any discussion of the inventions herein involved deals with technical apparatus and in particular with the assembly of the electrodes which, together with the gas and enclosing envelope, are the essential elements of an electrical discharge tube. Many descriptive terms known peculiarly to the professions of physics and electrical engineering are employed.

It seems appropriate to set forth at this point figures showing an electrical discharge tube with an explanation accompanying the same. For this purpose, we use Figures 1, 2, and 3 in Letters Patent Number 2,433,813 with accompanying description,

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which were used extensively by counsel during oral argument before us.

Special attention is directed to anode 14 of Figure 2 which is supported by a glass tube 15. Attention is also directed to the carbon or graphite electrode 17 which is fitted concentrically to glass tube 15. The remaining two elements of the discharge tube that figured prominently in the briefs of both parties are the cathode "pill" 21 of Figures 2 and 3 and the sputter shield 25. The relative size and spacing of anode 14, graphite electrode or grid 17, cathode "pill" 21, and sputter shield 25 determine to a great extent the physical behavior of the discharge tube and hence determine to an equal extent the possible improvement upon the gas-filled electric discharge tube presently under consideration herein.

Dec. 30, 1947. R. C. HILLIARD 2,433,813
ELECTRIC DISCHARGE TUBE
Filed Aug. 23, 1945

Fig. 2

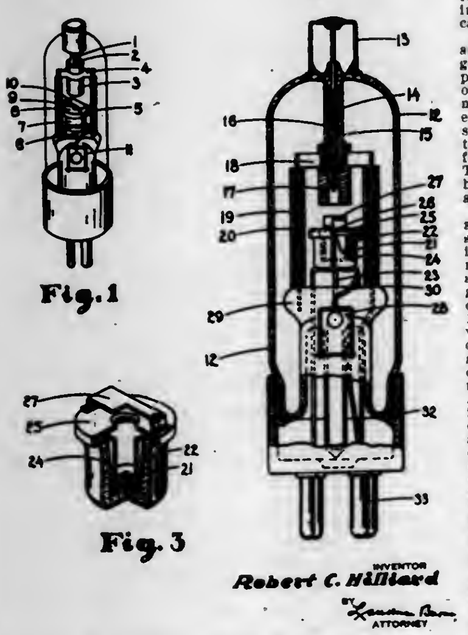


Fig. 1

Fig. 3

INVENTOR
Robert C. Hilliard
BY
ATTORNEY

A general explanation and description of the electric discharge tube disclosed by Hilliard in Letters Patent Number 2,433,813 is reproduced in part below:

This invention relates to gaseous discharge tubes and particularly to those of the type in which the source of electrons is a cathode spot. It may be designed, if desired, so that the short distance between the electrodes makes the tube useful as a rectifier. It may also be used for producing extremely short pulses, and for other purposes.

An object of this invention is to provide a cold-cathode, gaseous discharge tube which has relatively easy, cathode-spot formation without the necessity of heating power for the filaments.

Another object of this invention is to provide an electron discharge tube in which the discharge is controlled, without the expenditure of appreciable energy, by the control grids, for producing extremely short pulses and high peak currents.

A feature of this invention is the use of a carbon grid at the anode to help control the electrode to give a sharp cut-off after the discharge stops.

Another feature of this invention is the use of a glass tube heated and sealed to the carbon electrode to support it.

Another feature of this invention is the use of caesium chloride and aluminum in a highly compressed form as a "pill."

Another feature of this invention is the use of an annular metal grid over the cathode cup to prevent sputtering of the cathode-emitting material and to act as keep-alive, where necessary, and to start the discharge.

A further feature of this invention is the use of a strap or baffle over said nickel grid to keep sputtered material from forming on the anode grid.

Other objects and features of this invention will be explained hereinafter and will be particularly pointed out in the appended claims.

Figure 1 is a perspective view of the cold-cathode gaseous-discharge tube.

Figure 2 is a longitudinal sectional view of said cold-cathode, gaseous-discharge tube enlarged.

Figure 3 is a perspective view of the cathode cup in partial section.

In Figure 1, the anode wire 1 of tantalum is welded to material suitable for sealing the glass and is sealed into the base of a hollow glass tube 2 which supports the carbon grid 3.

The carbon grid 3 is further supported by a metal strip 4 with metal wires sealed in and supported by the glass sleeves 5. At the cathode, the lead-in wire 6 passes through the insulating ceramic cup 7 to the cathode cup and "pill." The ceramic cup 7 is covered by a nickel grid 8 to prevent the sputtering of the cathode-emitting material and thus to act as a keep-alive or to start the discharge. The nickel grid has a hole 9 in it to allow the action of the spot discharge. The cathode is further protected from sputtering by a baffle 10 of metal. The unit is insulated by and mounted upon the glass base 11 and sealed in a glass envelope filled with helium at a pressure of 7 to 20 millimeters.

In Figure 2, the glass tube 12 is capped by a metal anode cap 13 to which is attached a tantalum wire 14 supported by and insulated by a glass tube 15, welded to it as in normal tube construction. The wire 14 is separated from the glass tube 15, except at the base, by an air space 16 to prevent cracking from heat. The carbon grid 17 at the anode gives a sharp cut-off after the discharge stops and is supported not only by the glass tube 15 but also by the metal strip 18 upheld by the metal wires 19 supported in the glass sleeves 20. At the cathode, the caesium chloride and aluminum compressed into a "pill" 21 provide a cathode spot. This "pill" 21 of cathode-emitting material rests in and is contacted by a nickel cup 22 to which is attached the lead-in wire 23. A ceramic cup 24 surrounding and insulating the cathode is covered with an annular grid 25 to prevent sputtering of the cathode-emitting material and to act as a keep-alive, where necessary. The hole 26 in the metal grid is covered by a strap 27 which further prevents sputtered material from reaching the carbon grid 17. The getter 28 on each side of the glass mounting 29 is attached by a wire 30 to the stem. The entire glass envelope 12 is filled with helium at 7 to 20 millimeters pressure, or any inert gas; helium gas at low pressure may be used to increase the "hold-off" factor and to make the response of the device quicker. The glass envelope is fastened with cement 32 to a base from which project the pins 33.

In sealing the glass and the carbon together at the anode, the carbon is heated to the softening point of glass and the glass tube then pushed into the carbon electrode. A mandrel is pushed up into the glass tube during this sealing process to keep the tube open. This process may be useful in other places where keeping the glass tube open is not important, and in those cases a mandrel will not be required.

In Figure 3, the cathode "pill" 21 is shown resting in the metal cup 22, said metal cup insulated by the ceramic cup 24. Over all of this is the annular metal grid 24 surmounted by the metal baffle 27.

This tube may be used in the usual strobotron circuit and in many other types of circuit. I have found my tube particularly useful when used as a rectifier, the grids being in that case connected back to the anode through suitable resistance. The carbon grid in that case may be connected to an intermediate point on the resistance in the metallic grid circuit.

The major improvements in question, as outlined by counsel during oral argument before us and in their respective briefs, are primarily centered about the assembly of anode 14, glass support 15, and graphite or carbon grid 17 of Figure 2, and the positioning of the sputter shield or shields 25 and 27 of Figure 2 relative to the other electrodes of the discharge tube.

The case was submitted upon stipulated evidence by both parties, and as previously stated, the Board of Interference Examiners awarded priority of invention as to all six counts aforesaid to the appellee. Appellant's appeal to this court contains numerous assignments of error, and while they might be readily summarized, references in the briefs and arguments suggest that they be incorporated in their entirety as presented. They are as follows:

1. In awarding priority of invention to the senior party, Robert C. Hilliard, and in not awarding priority of invention to the junior party, Kenneth J. Germeshausen.
2. In holding that the party Germeshausen agrees that there is no issue of novelty or priority as to the limitation "sealed" of counts 1, 2 and 6, and that the question of priority involves only the limitation of "a metal (sputter) shield spaced from but in register with the center of said annulus."
3. In misconstruing the scope of the said limitation "sealed."
4. In holding that counts 1, 2 and 6 are not applicable to the Germeshausen disclosure.
5. In holding that the party Germeshausen has not proven with the degree required here that he disclosed the invention in issue to Hilliard's assignee, and that this is not, therefore, an originality interference.
6. In holding that the Hilliard tube of April 1945 functioned successfully, satisfactorily, creditably, or at all, whether for 170 hours or any other period of time, in the sense that it demonstrated the utility of the said sputter shield, and that it therefore constituted a reduction-to-practice.
7. In holding that the said Hilliard tube of April 1943 differed from the tube tested by the Bendix Aviation Corporation, which functioned 60 hours, only in the addition of a sputter shield.
8. In according to Hilliard the date of April 30, 1945, for actual reduction-to-practice.
9. In misinterpreting the limitation "register."
10. In holding that the counts are not readable on the Germeshausen disclosure shown in Exhibit 11.
11. In holding that the tests of Germeshausen's tube 19 did not demonstrate reduction-to-practice, and that Germeshausen has not proven reduction-to-practice prior to April 30, 1945.
12. In holding that only a life test of Germeshausen's tube No. 19 could demonstrate a reduction-to-practice.
13. In failing to hold that the tube shown in Exhibit 13, coupled with the tests of the tube shown in Exhibit 11, constitute a reduction-to-practice.
14. In holding that Germeshausen attempted to test the "baffle" (sputter shield) of tube No. 22, shown in Exhibit 13, and failing to understand that it was impossible for Germeshausen to make any such attempt, because the said tube No. 22 cracked before the manufacture thereof was completed.
15. In holding that the critical period for Germeshausen's diligence begins as early as just prior to April 30, 1945, instead of just prior to Hilliard's filing date, August 23, 1945.
16. In penalizing Germeshausen for the inactivity of the attorney of record, David Rines, during the period in the neighborhood of April 30, 1945, at a time when, insofar as the invention in issue is concerned, the said David Rines had not yet become Germeshausen's attorney, and in failing to hold that, insofar as the invention in issue is concerned, the said David Rines did not yet became Germeshausen's attorney until August 21, 1945.
17. In holding that, when Germeshausen decided not to secure the services of an attorney, he did so at his peril.
18. In holding that Germeshausen was not diligent with respect to counts 3, 4, 5 and 6.
19. In holding that the testimony of the witnesses, Dr. Edward L. Bowles, Dr. Truman S. Gray and the glassblower, Mr. Lawrence W. Ryan, was incompetent, because directed to construing the counts, and failing to understand that the testimony of these three witnesses had to do rather with the meaning of terminology used in the art.
20. In failing to hold that, as between the parties, there was a presumption that Germeshausen was the inventor of the sputter shield, and not Hilliard.

Essentially, only two features of novelty of invention are in dispute. Specifically, they are the sub-assembly composed of a graphite electrode and a glass support sealed thereto in combination with a tantalum lead-in wire sealed in glass and secondly, a sputter shield, or shields, described as "a metal shield spaced from but in register with the center of said annulus." As a corollary, the issue of reduction to practice and independence of development is presented for our consideration as well as the question of diligence.

The appellant, in his brief, has stated the issues of this appeal with references to his assignments of error as follows:

As to the first feature of the invention, whether the novelty thereof, as expressed in counts 1 and 2, is directed to the sub-assembly, as a unit, or whether, on the other hand, it is directed merely to Hilliard's stronger or more rigid joint, misdescribed as a "seal," between the hollow carbon-cylinder grid electrode and the glass-tube support therefor of that unit sub-assembly. In the former event, it is agreed that the award of priority, as to this first feature, should be in favor of Germeshausen. In the latter event, it is similarly agreed that the award of priority should be in favor of Hilliard. This issue is covered by Assignments 1, 2, 3, 4 and 19. • • •

The Board of Interference Examiners, in awarding priority to the appellee, noted that in the Hilliard patent the glass and the carbon are "sealed" together at the anode by heating the carbon to the softening point of glass and pushing the glass tube into the carbon electrode. While appellant does not contend that he originated Hilliard's process of "sealing," he maintains that his tight fitting joint is the full equivalent of Hilliard's "seal."

In its decision, the Board stated:

We feel that there is a difference between the tight-fitting joint of Germeshausen and the Hilliard "seal." In the Germeshausen subcombination the carbon grid and glass support may become disoriented with respect to each other without rupturing the joint, during the assembling of the tube, but if any movement takes place between the Hilliard grid and glass support it destroys the seal. The Hilliard method of pushing the heat-softened glass into the carbon-cylinder grid must, therefore, create a bond of some type between the glass support and the carbon grid not found in the Germeshausen tight-joint.

With this statement, we are in accord, as it appears to us from a careful analysis of the record that Hilliard's dissatisfaction with the Germeshausen tight fit resulted in the construction by him of a stronger and more reliable sub-assembly. It is certainly significant to note the absence in the Germeshausen disclosure of a rigid bond between the graphite cylinder and the glass tube. In this connection, the Board said:

• • • The Hilliard bond holds the two elements securely in place. The two elements may have relative movement in the Germeshausen joint and, therefore, are not *securely* positioned. • • • [Italics quoted.]

[1] The meaning of the term "sealed" as employed in the Hilliard patent is dwelt with at considerable length in the briefs of both parties and various definitions are sought to be attached to the word as decisive of the issue. In any event, it is manifest that an express limitation cannot be ignored, and the Board did not feel that the term was mis-applied, nor did it deem it proper to conclude that "sealed" meant hermetically sealed. Whether or not it is impossible to seal carbon to glass is not the real issue here. Even if such terminology is a misnomer in the glass industry, it is not controlling of Hilliard's intended meaning as applied to the term in his patent. Counts in interference proceedings are to be broadly construed, and it was the Board's opinion that, in a proper sense, the term meant securely fastening one element to another. They stated that when two objects are "sealed" together something more is required than a mere tight fit between them. We can find no error in the Board's definition of the term, and it is our

opinion that the Germeshausen disclosure does not support the limitation "a graphite electrode and a glass support sealed thereto" of counts 1, 2, and 6.

Coming now to a consideration of the second feature of the invention—the sputter shield of counts 3, 4, and 5—appellant states the issue as follows:

First, whether this is an originality interference. If so, the party Germeshausen is entitled to an award of priority as to counts 3, 4 and 5 upon this one ground alone. This issue is covered by Assignment 5.

Secondly, whether Germeshausen actually reduced to practice in June 1943. If the answer to this question should be in the affirmative, this would constitute another, and an independent, ground for an award of priority to the party Germeshausen as to counts 3, 4 and 5. This issue is covered by Assignments 9 to 14, inclusive, and 20.

Third, whether the sputter shield embodied in the new Strobotron in April 1945 established an actual reduction-to-practice. If it did, and if it should be held further that actual reduction-to-practice was Germeshausen's, and not Hilliard's, this would constitute another independent ground for an award of priority to Germeshausen as to counts 3, 4 and 5. This issue is covered by Assignments 6, 7 and 8.

Fourth, if it should be held that there was no actual reduction-to-practice in April 1945, or, if there was, that that reduction-to-practice was Hilliard's, and not Germeshausen's, whether Germeshausen was diligent. If it should be held that he was diligent, this would provide still a further independent ground for an award of priority as to counts 3, 4 and 5. This issue is covered by Assignments 15 to 18, inclusive.

The decision as to count 6, of course, will depend upon the disposition to be made as to the above assignments relating to counts 1 to 5.

Germeshausen, as junior party, carries the burden of proof and he must show by competent evidence that he disclosed the invention to the party Hilliard in such complete detail as the law requires in order to sustain his position that this is an originality interference.

The stipulated facts of record indicate that Germeshausen in 1935 or 1936 entered into an exclusive-license royalty agreement with the Sylvania Electric Products Company, whereby that organization would manufacture and sell appellant's Strobotron tube. It further appears that the tenor of the agreement called for Germeshausen giving Sylvania an opportunity to manufacture such tubes and improvements therein as might be developed by Germeshausen from time to time. The Strobotron tube, as standardized by Sylvania prior to 1942, was designated SN4. In order to adapt the SN4 for use with radar modulators, Germeshausen set out to redesign the SN4 with the object in mind of obtaining the same high currents obtainable with that tube, but at high frequencies and high voltages. Commencement of this work began sometime in 1942 when Germeshausen was busily engaged in confidential war work at the Radiation Laboratory of the Massachusetts Institute of Technology. Early in 1944, Germeshausen brought to Sylvania his improved tube, later to be designated SH4 to distinguish it from the standardized commercial SN4 Strobotron, and it was tested by the Bendix Aviation Corporation. Following the test, Germeshausen noted that the anode was quite worn. A number of SH4's were built by Sylvania and sold to the Signal Corps.

Thereupon, in March 1944, Sylvania assigned Hilliard to the task of aiding in the development of a final model of the SH4. Although Hilliard did not devote his full time to the SH4, he directly assumed charge of such development from April 1944 to August 1945.

It will be noted that counts 3, 4 and 5 each contain the limitation, "a metal shield spaced from but in register with the center of said annulus," the shield in question being described in the briefs of the parties as a "sputter" shield. Priority involves this limitation only. The shield in question tends to prevent the deposit of caesium "sputtered" out of the cathode onto the grid. Prior conception of the sputter shield is conceded to Germeshausen.

In ruling against Germeshausen on the originality issue, the Board of Interference Examiners said:

The Germeshausen record shows that he had licensed Hilliard's assignee, Sylvania Electric Products Inc., to manufacture tubes of the cold cathode gas filled electric discharge type. (Strobotron) Under the agreement Germeshausen was obligated to call to the attention of Sylvania related tube developments and give to Sylvania an opportunity to manufacture such tubes as he might develop from time to time. On June 10, 1943, under this agreement, Germeshausen allegedly disclosed the results of his research to two of Sylvania's engineers, Donald J. Coggins and Howard B. Sloan. • • •

The Board concluded that in view of testimony given by Sloan and Coggins to the contrary, as well as certain conjectural statements made by Germeshausen in his brief on this point, a finding of originality was not warranted.

Germeshausen makes mention of certain conferences with Sylvania's engineers, above mentioned, and relates that during these meetings he disclosed certain details of his research. These engineers, as well as Hilliard, deny having any recollection of the disclosure by Germeshausen of a sputter shield. Affirmatively, Coggins and Sloan have stated that they considered the sputter shield to be the invention of Hilliard.

It is important to note that Germeshausen does not affirmatively state that he did disclose the sputter shield feature of his invention to these witnesses, or to Hilliard. He presumes he did, but the adoption of such a presumption is not sufficiently supported by the record. Further, as both parties are capable engineers and it is not clearly apparent from the record just what position or relationship Hilliard and Germeshausen occupied in perfecting the SH4, appellant's allegation that Hilliard was, in effect, his assistant is without merit. On this point, the Board said:

• • • Germeshausen may have been quite an experienced inventor and Hilliard may have been quite new in this work *when* assigned to it but Hilliard had been directly in charge of the work for nearly a year when he invented his "sputter shield." Hilliard was a capable engineer, was employed by Sylvania beginning in December 1940 and, therefore, must have been more than a novice when he invented his "sputter shield." • • • [Italics quoted.]

Germeshausen in his brief states:

There is absent any testimony, however, that Hilliard himself ever independently conceived the sputter shield, or the circumstances under which, or the time when, he arrived at any such independent conception, if he ever did. There appears to be no reason, indeed, why Hilliard should independently have conceived the sputter shield. • • •

[2] Under the circumstances, however, we must agree with the Board of Interference Examiners and conclude that the burden of proof necessary to establish originality interference has not been satisfactorily carried. The negative reasoning employed by the appellant herein cannot induce the positive results sought.

Considering now the priority of award with respect to counts 3, 4 and 5, relative to the reduction to practice issue, Hilliard alleges that his invention was reduced to practice on October 15, 1944, and disclosed to others on or about that same day. Germeshausen contends that he actually reduced to practice in June of 1943.

The limitation in question, "a metal shield spaced from but in register with the center of said annulus," reads on the disclosure of each party. The Board, in interpreting the limitation, stated that a round metal cover, having an opening in the center, is placed over the cathode and the sputter shield is so mounted that it is supported between the opening in the grid. The shield is spaced from, but in register with, the opening in the cover. Hilliard mounts his shield directly on the nickel cover while Germeshausen shows the shield suspended from the grid support. That the embodiment of the sputter shield into the tube extends the useful life of the tube is conceded by both parties.

As noted, Germeshausen's first records disclosing conception of the sputter shield appear in June 1943. Well satisfied with experimental tube 19 as solving the problem relating to prevention of deposits of caesium on the grid through employment of said shield, Germeshausen alleges that he thereafter directed his attention to the solving of other problems. Although Germeshausen deemed the operability of the sputter shield to be established, he tried out different shapes of the shield in question. Tube 22, containing a sputter shield of different shape cracked and appellant decided thereafter not to devote further effort in that direction.

In his brief, Germeshausen gives the results of certain tests conducted by a Mr. Krulikoski, his assistant, with tube 19, and the following from that brief is here pertinent:

• • • The tests demonstrated, after only 17.8 hours, therefore, that Mr. Krulikoski had successfully carried out the task that Germeshausen had set him to perform, as recorded on page 21 of his notebook, Exhibit, 10A, namely to "hide the anode more completely from the cathode," thus preventing the caesium that became sputtered out of the cathode from becoming deposited upon the inner surface of the carbon-cylinder grid electrode. • • • • • • •

More than that, indeed, the tests that Mr. Krulikoski performed with the tube No. 19 did not need to be stopped after only 17.8 hours. There is no evidence that, as the Board held (R. p 133), this tube "lasted" only 17.8 hours. The tests with this tube No. 19 could have been carried on for many more hours, if there had been any need to do so. • • • • • • •

The fact that Germeshausen contemplated testing different shapes of sputter shield, with the object in view of determining whether one shape might constitute an improvement upon another, similarly does not demonstrate that Mr. Krulikoski's tests of the tube No. 19 did not constitute a reduction-to-practice of the sputter shield.

In March of 1945, forty of the tubes in question, without a sputter shield, were sold to the Signal Corps. In April of 1945, Hilliard added a sputter shield to this type of tube and demonstrated its operation for 170 hours. Prior to this time, in early 1944, the Bendix Aviation Corporation tested Germeshausen's SH4, without sputter shield, and it functioned for sixty hours.

The Board, in this connection, said:

• • • The Bendix tested tube functioned 60 hours. The Hilliard tested tube functioned successfully for 170 hours. The record is plain that the only difference between the two tubes was the addition of a sputter shield to the Hilliard tested tube. • • • • • • •

It is our opinion that the Hilliard test was as highly successful as the Bendix Aviation Corporation test and positively proves reduction to practice. Accordingly, we accord Hilliard the date of April 30, 1945, for actual reduction to practice. • • • • • • •

Further tube No. 19, as tested in Exhibit 11 apparatus, lasted less than 18 hours (Germeshausen Rec., Par. 41). This is no convincing indication that the life of this tube was benefited by using a sputter shield. Tube No. 15, a very similar tube but without a sputter shield, had 38 hours running time (Germeshausen's Rec., Par. 31).

For the foregoing reasons Germeshausen has not shown to our satisfaction that the tests in question constituted a reduction to practice.

The Board further held that tube 19 was not within the counts because the sputter shield, though spaced from the center of the annulus, was not in register therewith as specified in the counts. Germeshausen urges that there is no limitation in the counts that the sputter shield and the anode must be positioned directly over the cathode, nor any statement in Hilliard's specification showing an intent to restrict the word "register" to a construction in which the sputter shield and the anode must be positioned directly over the cathode. In answer to this contention, the Board said:

• • • Germeshausen admittedly does not disclose the structure. Further, these counts call for, "a metal shield spaced from, but in register with, the center of said annulus." Germeshausen points out that the word "register" is not used in the specification of the involved Hilliard patent. The figures of the drawing of a patent are a part of its disclosure. The sputter shield 27, as illustrated in the Hilliard patent, is clearly in *register* with the *center* of cover 25. We see nothing unusually broad about the counts in question, certainly nothing sufficiently broad to warrant a holding that they are readable on the Germeshausen disclosure shown in Exhibit 11. [Italics quoted.]

We must agree with the decision of the Board in its entirety on the issue of reduction to practice. We are able to discern some merit in the arguments advanced by appellant but, in our opinion, the proof he offers is not sufficiently conclusive to warrant a reversal of the well considered opinion below.

In order to prevail at this juncture of the case, the appellant must prove that he was diligent during the critical period—just prior to April 30, 1945, up to the time that he filed his application in February of 1946. Appellant argues that the Board was in error in awarding April 30, 1945, to Hilliard as the date Hilliard reduced his invention to practice because the record does not contain any evidence whatsoever that the April 1945 tube operated any better, or any worse, with the sputter shield incorporated therein and that consequently, mere embodiment of the sputter shield in Hilliard's tube of April 1945 does not thereby prove a successful reduction to practice. It is, however, clear that Hilliard conceived the invention no later than April 1945, and in the absence of direct proof to the contrary to the effect that the Board was manifestly in error in awarding such date as establishing a reduction to practice, we must concur with the findings of the Board. In doing so, we have considered the proof offered by Germeshausen in support of his

contention, but do not find it sufficiently convincing.

The stipulated facts of record relative to Germeshausen's activities during the critical period were accurately summarized by the Board as follows:

> • • • Germeshausen alleges that on October 3, 1944, he made the four sheets of sketches and descriptive matter, Exhibit 29, to give to his patent attorney for the purpose of aiding him in preparing a patent application. Since Germeshausen's tube had a bearing upon the prosecution of the war he was required to secure the permission of the United States Government to disclose the contents of Exhibit 29 to his attorney. This permission was received by Germeshausen some time in the forepart of February 1945. At about this time Germeshausen's attorney began the study of medicine in a medical school which engaged his full time for a number of months (Rec., Par. 63). As his attorney was thoroughly familiar with the art, Germeshausen considered that it would be time-saving, in the end, to wait until his attorney was available rather than train a new attorney in the art. When his attorney became available Germeshausen was required to give his entire attention to official and other duties and it was not until August 21, 1945, that the two had an opportunity to meet in a conference. Owing to the large number of other matters considered at this conference, Germeshausen did not make the disclosure of his tube sufficiently complete for the purpose of preparing a patent application. Several drafts of a proposed application were consecutively drawn up and the final draft was mailed to Germeshausen on January 30, 1946. Germeshausen executed this promptly and the application was filed on February 7, 1946.

While Germeshausen had, in the past, employed Rines as his attorney in connection with other patent matters, it is alleged that he did not so employ that attorney in connection with the invention in question until August 21, 1945. The record, however, clearly shows that in requesting permission of the United States Government in October 1944 to file a patent application for the invention in issue, Germeshausen referred to Rines as his attorney. In February 1945, when Germeshausen's request was granted, he again made reference to Rines as his attorney in the following manner (stipulated testimony on behalf of Germeshausen):

> On February 11, 1945, and for a number of months thereafter, Germeshausen's attorney, the said David Rines, was engaged, full time, during the day and at night, in the study of medicine, at a medical school. • • •

In addition, Germeshausen testified:

> • • • Germeshausen therefore, considered that it would be time-saving, in the end, to wait until the end of the medical-school year; in late May or early June, when Mr. Rines would become freed from his medical studies, • • •

The Board was of the opinion that Germeshausen had decided to retain attorney Rines in February of 1945 and would have entrusted his case to him had Rines been free at that time. Germeshausen contends that there is no evidence to support such a finding by the Board, that it is pure guesswork, and that there is no implication to be gathered one way or the other.

It appears to us, however, as it did to the Board, that when Germeshausen decided to wait for Rines to finish the medical school year, and not train a new attorney in the Strobotron art, he was retaining Rines as his attorney. On May 26, 1945, according to the stipulated testimony, Rines once again began working for his clients, although he did not return to his office in Boston until June 6, 1945, at which time "he plunged into other work that had accumulated during the medical-school year." While Germeshausen had, in October 1944, prepared sketches and an explanation of their features for disclosure to attorney Rines, he did not forward them to his attorney, although it appears that Rines had once again resumed the practice of law and was available in the latter part of May or early June. The record states that Germeshausen constantly bore his new tube in mind and on June 20, 1945, made additional drawings, but could not, at that time, consult with his attorney. Although Germeshausen may have been deeply engrossed with his official duties, as well as private business matters, during May, June, July, and half of August 1945, we think it is significant to note the absence of any explanation relative to Germeshausen's failure to send his prepared disclosures to Rines.

[3] The Board, in their opinion, commented on the fact that during part of the critical period Germeshausen's attorney was devoting his time to an entirely unrelated undertaking, not directed to the invention in issue, and stated further:

> • • • Employing critical time to gain knowledge of an entirely unrelated art cannot be considered as diligence. • • •

We are in accord with that view, concluding as we do that an attorney-client relationship existed during the critical period.

While we are not unmindful of the special circumstances relating to the nature of Germeshausen's work, his necessary concern with private partnership matters, and the fact that his activities beginning with the commencement of the late war until the arrival of V-J day were extremely burdensome and required much of his time, we are of the opinion that he has failed to establish the necessary acts of diligence between April 1945 and August 21, 1945.

[4] For the reasons hereinbefore set out, the decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

JOHNSON, J., concurs in the conclusion.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,929,122, C. G. Smith, Vapor space current device; 2,137,198, 2,201,819, same, Electronic device; 2,201,818, same, Electronic discharge device; 2,201,817, same, Electronic discharge method and apparatus; 2,088,249, P. L. Spencer, Gaseous rectifier, D. C. N. J. (Newark), Doc. 584/51, *Raytheon Mfg. Co.* v. *Electrons, Inc.* Dismissed by final judgment Mar. 23, 1953.

2,088,249. (See 1,929,122.) 2,137,198. (See 1,929,122.) 2,145,918, T. E. Bryan, Gas lift apparatus; 2,179,226, same, well flowing valve; 2,275,345, same, Removable gas lift apparatus in oil wells; 2,275,346, same, Gas lift valve and surface operating mechanism; 2,208,036, R. R. Kyner, well flowing apparatus and method, D. C., N. D. Tex. (Fort Worth), Doc. 2414, *Garrett Oil Tools, Inc.* v. *Thomas E. Bryon.* Dismissed without prejudice Feb. 12, 1953.

2,179,226. (See 2,145,918.) 2,201,817. (See 1,929,122.)

2,201,818. (See 1,929,122.) 2,201,819. (See 1,929,122.)

2,208,036. (See 2,145,918.)

2,226,009, G. E. Miller, Hop separator, D. C., N. D. Calif. (San Francisco), Doc. 6435, *Thys Co. et al.* v. *S. Oeste.* Patent held invalid (notice Mar. 18, 1953.)

2,226,449, F. C. Stephens, Repairing textile fabrics, filed Mar. 13, 1953, D. C., W. D. Ark. (Texarkana), Doc. 461, *National Multiweaving Co., Inc., et al.* v. *Model Cleaners.*

2,262,670, A. A. Ensminger, Storm sash, filed Mar. 24, 1953, D. C., S. D. Ohio (Cincinnati), Doc. 3137, *The F. C. Russell Co.* v. *Allied Window Manufacturers, Inc., et al.*

2,275,345. (See 2,145,918.) 2,275,346. (See 2,145,918.)

2,288,497, F. X. Tartaron et al., Concentration of potash ores, filed Mar. 23, 1953, D. C., S. D. Fla. (Tampa), Doc. 2317-T, *Duval Sulphur & Potash Co.* v. *Attapulgus Minerals & Chemicals Corp.*

2,329,290, G. O'Gorman, Welting for boots and shoes; 2,390,485, W. C. Wright, Shoe and welt therefor; Des. 141,974, same, Shoe welt; 2,448,105, same, Pre-formed welt; 2,558,776, Olson & McMillan, Welting of styrene-butadiene copolymer; Des. 163,559, C. F. Batchelder, Jr., Pre-stitched beaded shoe welting, filed Mar. 21, 1953, D. C. Del. (Wilmington), Doc. 1528, *See Bee Mfg. Co., Inc.* v. *Shoe Patents Corp. et al.*

2,390,485. (See 2,329,290.)

2,429,698, W. K. Schneider, Method of producing polysulfide rubber coatings; 2,584,262, W. S. Foulks, Process for curing coatings of polysulfide polymers, D. C. Del. (Wilmington), Doc. 1496, *Stoner-Mudge, Inc.* v. *Thiokol Corp.* Consent dismissal Mar. 23, 1953.

2,448,105. (See 2,329,290.)

2,455,905, Ronning & Kleth, Combine appeal filed Feb. 18, 1953, C. C. A., 8th Cir. (St. Louis), Doc. 14787, *Minneapolis-Moline Co.* v. *The Massey-Harris Co.*

2,489,029, E. L. Guerrant, Means for packing prefabricated doorframes, filed Mar. 13, 1953, D. C., N. D. Ala. (Birmingham), Doc. 7197, *Ready Hung Door Corp.* v. *Jenkins Lumber Supply & Mfg. Co., Inc.*

2,496,183, Thias & White, Circuit component selecting unit; 2,504,758, same, Variable capacitor; 2,620,378, E. P. Thias, Fine tuner for turret type tuners; supplemental complaint filed Aug. 9, 1950, D. C., S. D. N. Y., Doc. 60/136, *Standard Coil Products Co., Inc.* v. *Automatic Mfg. Corp.*

2,503,746, S. Klehr, Brief bag closure means, filed Mar. 19, 1953, D. C., S. D. N. Y., Doc. 83/305, *Rialto Leather Goods Co.* v. *Rexbilt Leather Goods, Inc.*

2,504,758. (See 2,496,183.)

2,508,784, J. B. Cox, Power saw chain; 2,622,636, same, Chain saw, filed Mar. 20, 1953, D. C. Oreg. (Portland), Doc. 6900, *Oregon Saw Chain Corp.* v. *Southern Oregon Equipment Co., Inc., et al.*

2,509,972, L. Gottfried, Chair and base therefor releasably secured thereto; 2,516,774, Des. 158,069, same, Convertible high chair; 2,512,995, Dec. 158,041, J. Berger, Stroller having removable chair (declaratory judgment), D. C., S. D. N. Y., Doc. 59,376, *Babyhood Industries, Inc.* v. *The Stroll-O-Chair Corp. et al.* Stipulation and order of dismissal (notice Mar. 20, 1953).

2,512,995. (See 2,309,972.) 2,516,774. (See 2,509,972.)

2,558,776. (See 2,329,290.)

2,579,304, J. B. Crawford, Self-adjusting recirculating overflow, D. C., S. D. Calif. (Los Angeles), Doc. 14726-BH, *Paddock Pool Maintenance Co.* v. *Moresta Swimming Pool Equipment Co. et al.* Judgment holding patent valid and infringed, injunction Mar. 16, 1953.

2,584,264. (See 2,429,698.)

2,591,610, G. P. Robinson, Ventilated metal awning, D. C., S. D. Fla. (Tampa), Doc. 2178, *G. P. Robinson* v. *R. Di Gartano.* Judgment for defendant, but against defendant on his counterclaim Mar. 19, 1953.

2,620,378. (See 2,496,183.) 2,622,636. (See 2,508,784.)

Des. 141,974. (See 2,329,290.)

Des. 153,349, Des. 100,081, O. R. Galter, Bottle opener, filed Mar. 20, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c651, *O. R. Galter* v. *Micro Metal Products Co.*

Des. 158,041. (See 2,509,972.)

Des. 158,069. (See 2,509,972.)

Des. 160,081. (See Des. 153,349.)

Des. 163,559. (See 2,329,290.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 314,049, T. M. 354,241; I. Hagge Kamerawerk Steenbergen & Co., Cameras and accessories, filed Mar. 20, 1953, D. C., S. D. N. Y., Doc. 83/321, *The Erckta Camera Co. of America, Inc.* v. *Camera Specialty Co., Inc., et al.*

T. M. 354,241. (See T. M. 314,049.)

T. M. 407,843, M. Kandel, Misses' and ladies' underwear; T. M. 562,115, Pembrooke Lingerie Co., Lingerie, filed Mar. 17, 1953, D. C., S. D. N. Y., Doc. 83/268, *Pembrooke Lingerie Co, Inc.* v. *Pembrooke Foundations, Inc.*

T. M. 562,115. (See T. M. 407,843.)

T. M. 565,110, T. M. 565,112, Weco Producta Co., Toothbrushes and denture brushes; filed Mar. 18, 1953, D. C., S. D. N. Y., Doc. 83/291, *Weco Products Co.* v. *All-American Drug Sundries, Inc.*

T. M. 565,112. (See T. M. 565,110.)

NOTICES

Erratum

All references to Patent No. 2,640,015 to Karl J. Nelson, assignor to Standard Oil Development Company, for Process of Carbonizing Coal, appearing in the OFFICIAL GAZETTE of May 26, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

Disclaimers

2,506,403.—*Ernst Witzel*, Milwaukee, Wis. BURNER CONTROL SYSTEM AND CONTROL MEANS THEREFOR. Patent dated May 2, 1950. Disclaimer filed May 4, 1953, by the assignee, *Milwaukee Gas Specialty Company.*

Hereby enters this disclaimer to claims 10, 12, and 15 of said patent.

2,611,852.—*Milton Eaton*, Shawinigan Falls, Quebec, Canada. ELECTRIC BOILER. Patent dated Sept. 23, 1952. Disclaimer filed May 12, 1953, by the assignee, *The Shawinigan Water and Power Company*.

Hereby enters this disclaimer to claims 1 and 5, of said patent.

Discontinuance of Publication of Abstracts of Abandoned Applications

The practice of publishing abstracts of abandoned applications, instituted by Commissioner's Notice of January 25, 1949, 619 O. G. 258, will be discontinued. No requests for publication of abstracts received after August 3, 1953 will be considered. Requests for publication received before August 3, 1953 will be considered and treated according to the practice heretofore in effect for such cases.

ROBERT C. WATSON,
Commissioner of Patents.

Commissioner's Administrative Order No. 42

Effective May 25, 1953, Division 44 is abolished and coincident therewith the following transfers of classes are ordered:

Classes 5 and 155 from Division 44 to Division 8.
Classes 211, 227, 228, and 304 from Division 8 to Division 41.

ROBERT C. WATSON,
May 15, 1953. *Commissioner of Patents.*

Commissioner's Administrative Order No. 43

Effective May 27, 1953, Division 65 is abolished and coincident therewith the following transfers of classes are ordered:

Class 40, Subclasses 125 through 145 from Division 42 to Division 48.
Classes 174 and 339 from Division 65 to Division 42.
Class 181 from Division 69 to Division 51.
Class 240 from Division 65 to Division 69.

ROBERT C. WATSON,
May 15, 1953. *Commissioner of Patents.*

Classification Order No. 144

May 12, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

ESTABLISH CLASS

339—ELECTRICAL CONNECTORS (Division 65)
(H. S. VINCENT, A. RUEGO, JR., and F. R. REILLY, *Classifiers*)

Note: The subclass schedule, definitions of the above class, and complete Classification Order No. 144, will appear in Classification Bulletin No. 412. Price 35¢.

IN THE MANUAL OF CLASSIFICATION:

ABOLISH CLASS

173—ELECTRICITY, CONNECTORS (Division 65)

ESTABLISH SUBCLASSES

In *Class 213, Railway Draft Appliances* (Division 34)
(H. S. VINCENT, A. RUEGO, JR., and F. R. REILLY, *Classifiers*)

1.3 **Combined coupler and electric connector** (to follow subclass 1)
1.6 With additional circuit-making or breaking means

In *Class 240, Illumination* (Division 65)
(H. S. VINCENT, A. RUEGO, JR., and F. R. REILLY, *Classifiers*)

153 **Socket attachments and fittings** (to follow subclass 152)

CLASSES ARRANGED BY DIVISION

In Division 65:
Delete Class 173—ELECTRICITY, CONNECTORS
Add Class 339—ELECTRICAL CONNECTORS

CLASSES ARRANGED IN ALPHABETICAL ORDER

Delete Class 173—ELECTRICITY, CONNECTORS... 65
Add Class 339—ELECTRICAL CONNECTORS... 65

CLASSES ARRANGED IN NUMERICAL ORDER

Delete Class 173—ELECTRICITY, CONNECTORS... 65
Add Class 339—ELECTRICAL CONNECTORS... 65

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
173	259	339	196, 201+, 224+
			241+, 263+
	269		223, 275, 276, 277
	273		109, 241+
	322		103+
	324		Various
	326		15+
	327		197
	328		151+, various
	329		151+
	330		122, 151+
	331		180, various
	332	213	1.3+
		339	34+, 191+, 195+
	333		15+
	334		154+, various
	334.1		22+
	335		121, 137, 160
	337		165
	338		151+, various
	339		126+
	340		97+
	341		12
	342		180, various
	343		8, 153, various
	344		151+
	356		75+, 94
	357		Various
	358		180, various
	359		178, various
	360		72
	361		Various
	362		139, 140
	363		Various

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
213	1.3, 1.6	173	332
240	153		362
339	1–9		324
	10, 11		Various
	12		341, various
	13		273
	14		Various
	15		326
	16		333
	17, 18		324, 328
	19		328
	20		330
	21–24		334.1
	25		358
	26		259
	27		324
	28, 29		Various
	30		332
	31, 32, 33		Various
	34, 35		332
	36		Various
	37		356
	38–44		Various
	45		328, 358, 361
	46, 47		Various
	48		332
	49		328, 332
	50–57		328
	58		322
	59–63		328+
	64		328, 363, 332
	65, 66		328+
	67		Various
	68		359
	69–73		360
	74, 75–81		328+

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
339	82–87	173	350
	88–92		328+
	93		Various
	94		356
	95		Various
	96–99		340
	100		Various
	101		332, various
	102		328+
	103–107		322
	108–119		Various
	120		330, 338
	121		335
	122		330, 338
	123		330
	124, 125		Various
	126–131		339, 328
	132–135		328+
	136		Various
	137		335
	138		328
	139, 140		362
	141		328, 332
	142		328+
	143		Various
	144, 145		328, 361
	146		359
	147		Various
	148		364
	149, 150		Various
	151		328+
	152		324
	153		343
	154–159		328+
	160, 161, 162		335
	163–167		328+
	168, 169		343
	170, 171, 172, 173		328+
	174		361
	175		342, 358
	176		328, 332, 338
	177		328+
	178		359
	179		358
	180		358, 331, 342
	181–196		328+
	197		327
	198		324, 259
	199		356, 358, 362
	200–222		Various
	223		269
	224–240		259
	241–278		259, 273, 269, 324, 326

SUBCLASS SCHEDULE

Class 339, Electrical Connectors

Original Classification, 1953, H. S. VINCENT, A. RUEGO, JR., F. R. REILLY

1 **With parts relatively movable during use**
2 With relatively movable non-connector structures
3 Steering or vehicle wheel
4 Hinged (e. g., door type)
5 Rotary supporting or drive shaft
6 With conducting joint for relatively movable conductor parts
7 Universal or compound movement
8 Swiveled or axially rotatable
9 Axial or longitudinal movement
10 **With vehicle structure**
11 **With wearing apparel**
12 **With magnet or suction cup**
13 **Conduit and enclosed wire connected together and/or to common ground**
14 **With earth ground or additional connection thereto**
15 **With fluid line conduit or coupling**
16 Simultaneously joined fluid lines and connectors
17 **Preformed panel circuit arrangement** (e. g., printed circuits)
18 **Permutation type or circuit selecting panel type**
19 **Separable short circuiting coupling part**
20 **Continuous outlet receptacle type**
21 Strip or indefinite length
22 **With conduit**
23 Base board or molding type
24 End connector only
25 **Candle simulation type**
26 **Spark plug covers**
27 **Magneto post type**
28 **Flexible conductor with connector at each end**
29 Duplicate ends
30 **Heat responsive contact pressure control means**
31 **Convertible**
32 **Alternative connecting means**
33 For diverse mating coupling parts
34 **Contact carrier movable between accessible and inaccessible positions**
35 With fluid pressure operating or control means
36 **With movable or removable non-use covering means**
37 Unauthorized use preventing
38 Dummy-coupling member
39 Closure prevents separation of engaged couples
40 Mating coupling member moves closure
41 Rotating on longitudinal axis of engagement
42 Reciprocating along longitudinal axis of engagement
43 Hinged
44 Hinged closure
45 **With plug ejecting or coupling separating means**
46 **Contact separation by snap or quick break action**
47 **Duplicate engaging coupling members**
48 Butt coupling
49 Plural contacts
50 **Receptacles for double ended lamps** (e. g., fluorescent)
51 With starting switch socket
52 Aligned lamp coupling ends
53 Plural prong end coupled without longitudinal motion
54 With additional locking or retaining means
55 With lamp co-axial with contact spring axis
56 Spring biased or resilient receptacle mounting
57 For plural lamps
58 **Electrical tool or appliance handle mounted**
59 **Contacts carried by flexible or resilient insulation**
60 Sealing joint between coupling parts
61 Stressed or distorted by coupling operation
62 Spaced prong plug unit
63 Multipart or additional insulating material
64 **Self-aligning or floating contact means**
65 **With guiding means for mating part of coupling**
66 For spaced prong plug
67 **Wire or strand form screw coupling element**
68 **With swivel between conductor and screw type contact shell**
69 **Screw couple engaged or disengaged without rotary motion**
70 Radially moved thread engaging member
71 By axially moving wedge or cam
72 Biased toward thread
73 Socket portion movable
74 **With plug prong deflecting or socket spreading means to permit uncoupling**
75 **With coupling movement actuating means or additional retaining or locking means for coupled connectors**
76 Two or more coupling parts combined in one unit
77 Retains each of 2 mating parts
78 Ordered sequential assembly or disassembly
79 Separation from mating part prevented by presence of other mating part
80 Frangible or destructible
81 Requiring destruction of lamp envelope
82 Unauthorized separation preventing
83 For screw couple
84 Plug carried locking or retaining means
85 With freely rotatable socket shell
86 With internal screw latch or spur
87 With external securing means
88 For bayonet engaged couples
89 Rotatable coupling-sleeve, ring or cap
90 Bayonet
91 Latching means
92 Screw or bolt retaining means
93 **With vibration absorbing or cushioning means**
94 **With packing or gasket for joint between coupled parts**
95 **With cutting, scraping or piercing means**
96 Insulation piercing means contacting conductor
97 Conductor sheath penetrating
98 Actuator effects simultaneous contacting of plural conductors
Plural insulated paths
99 Axially penetrating the conductor
100 **With flexible or pivoted guard or support for line cord or conductor**
101 **With external conductor or line cord embedded in molded insulation or sealing material**
102

103 **With strain relieving means for conductor to terminal joint**
104 With additional secured cord or strand
105 Tortuous path or looped conductor
106 Knot or enlargement engaging means
107 Longitudinally divided coupling part insulation grips conductor
108 **With handle, tool or manipulating means**
109 Overhead line type
110 Separable coupling type
111 **With arc suppressing or extinguishing means**
112 **With cooling or ventilating means**
113 **With indicating or identifying means**
114 **With corrosion preventing, removing or retarding**
115 Fluids and means for retaining same
116 By covering or encasing contacts
117 **With fluid, fluid passageways and/or vacuum**
118 Conducting fluid
119 **With mounting or supporting means for coupling part**
120 With additional support
121 For plural discrete coupling parts
122 Outlet box type
123 Face plate or closure member
124 Rod or pipe end connection
125 Wall, plate or panel mounting or attaching means
126 With coupling or mating part extending into or through panel opening
127 Bayonet securing means
128 Radially expanding spring finger securing means
129 Collar securing means
130 Screw threaded
131 Attached by bending or crimping
132 Flange
133 Yoke bracket type
134 Separately attached ears
135 Suspended
136 **Metallic casing, covering or sheathing**
137 For two or more similar coupling parts
138 Divided or multipart
139 Cap and shell
140 With insulated lining
141 Longitudinally
142 Attached to coupling part by bending or swaging
143 **With anti-inductive shielding means**
144 **With vitreous envelope secured to contact or coupling part** (I. e., lamp or tube base type)
145 Contact carried by additional insulating body
146 Screw threaded coupling
147 **Combined**
148 **Plural conductor cables with separately carried conductor end terminals**
149 **With insulation other than conductor sheath**
150 Multiple insulated paths or connectors
151 Plural contact coupling part
152 For direct contact with plural battery or cell terminals
153 Single contact coupling member interposed between coupling parts
154 Two or more combined in one unit
155 Asymmetrically connected contacts
156 Three or more contacts
157 Three or more combined in one unit
158 Three or more diverse types
159 All similar but one
160 Multiple screw sockets
161 Including a screw plug
162 All screw sockets
163 With securing means for line cord
164 Both coupling parts of same type
165 Both screw sockets
166 Spaced prong plug and spaced prong receptacle
167 Including a screw-plug
168 With a spaced prong receptacle
169 With a push-pull socket
170 Including a spaced prong plug
171 Two bayonet sockets
172 Having one or more conductor securing means insulated from all contacts
173 With plural means to connect conductor to single contact
174 With common means securing plural conductors to separate contacts
175 With separate through passageways for external conductors
176 Sockets, receptacles and plugs
177 Each contact symmetric about longitudinal axis of engagement
178 One contact screw threaded
179 Threaded center contact type Screw socket
180 One bayonet contact
181 Contacts spaced along longitudinal axis
182 Jack plug type
183 Polarized
184 Asymmetrically disposed duplicate contacts
185 Key or guide way
186 Bayonet
187 Bayonet plug and/or socket
188 Plural bayonet contacts
189 Peripherally disposed (e. g., acorn type)
190 Spaced prong receptacle
191 Three or more contacts
192 Circularly disposed (e. g., radio tube socket type)
193 Plate, sheet or disc type
194 Spaced prong plugs
195 Multipart insulating body
196 Drop cord attaching means (e. g., rosette)
197 Terminal blocks or boards
198 With mutilated, irregular, interrupted or discontinuous coupling or contact thread
199 Movable insulated connector part for securing conductors
200 Insulated sleeve, cap or thimble
201 Internally screw threaded
202 Spring biased
203 Surrounding coupling means for duplicate connectors
204 Axially aligned connectors
205 Multipart insulating body
206 Surrounding conducting socket
207 Longitudinally divided
208 Cap and shell type
209 Connector clamped or held between opposed faces
210 Interfitting insulating bodies separately carried by mating connectors
211 Connector part surrounding insulation
212 Sleeve or tube type
213 Connector with contacts on opposite sides of insulation
214 With socket contact
215 Contact aligned with prong socket in insulation
216 Contact or connector secured to insulation
217 Molded joint
218 Aligned apertures or sockets and separate securing means therethrough
219 Crimped, deformed or bent joint
220 Friction held joint
221 **With jumper or low resistance path**
222 **Conductor sheath engaging means**
223 **Battery post clamp type connectors**
224 Common securing means for post and cable
225 With clamp separator
226 With reinforcing insert
227 Spring actuated or resilient clamp
228 Deformable C or U clamp
229 Screw operated
230 Screw operated
231 Screw or nut co-axial with post
232 Post between and transverse of plural screws
233 Eye bolt type
234 Lever
235 Cam or wedge
236 Screw axis intersects post axis (e. g., set screw)
237 Clamping lever, cam or wedge
238 Rotary or swinging cam
239 Sliding wedge
240 **Connectors having movable or resilient securing parts**
241 Three or more conductors or connectors
242 Stirrup type
243 Direct contact or engagement of joined conductors
244 Adjustable angular joint between separate connectors
245 Screw between and transverse of parallel conductors
246 Cam or wedge between conductors
247 Duplicate receiving means joining plural conductors
248 Common actuating means for securing plural conductors
249 Stranded conductor securing means
250 Circumferentially tensioned flexible strap or band
251 Spring actuated or resilient
252 With locking or spring compressing means
253 Compression spring axis transverse of conductor
254 Separate spring means for non-resilient members
255 Resilient clip or socket
256 Split disc type
257 With resilient clamping finger (including split cylinders)
258 With additional reinforcing spring means
259 Crossed members
260 Hand grip type
261 Multipart assembly
262 Screw threaded operating or securing means
263 C-clamp type
264 Conductor between and transverse of plural screws (e. g., U bolt)
265 Clamping lever
266 Expansion plug
267 Nut, bolt or screw co-axial with conductor
268 With means confining strand or wire loop about screw
269 With movable cam or wedge means
270 With strand coiling or loop forming means
271 Screw axis intersects conductor axis (e. g., set screw)
272 Cam or wedge means
273 Rotary or swinging
274 **With fused or molded material**
275 **With crimped, deformed or beat securing means**
276 **Slotted or apertured disc or plate**
277 **Miscellaneous**
278

M. C. ROSA,
Executive Examiner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,534,951. Universal Electrical Apparatus. Patented Dec. 19, 1950. Portable electric power apparatus may be readily connected to any convenient source of power and used to drive a wide variety of household appliances, industrial tools, and other devices of a rotary character. The appropriate speed for any device to be driven is automatically selected by the length of the shank of the device to be driven when the shank is inserted in the apparatus. The apparatus comprises a cylindrical casing containing an electric motor and variable speed gearing with a handle grip carrying a trigger switch for controlling the motor detachably connected to the rear end of the casing. A first gear spindle, carrying gears of different sizes, is operatively connected to the drive shaft of the motor. A second slidably mounted gear spindle, carrying gears of different sizes capable of meshing with the gears on the first spindle, is normally urged outwardly by a spring. An internally squared rotary sleeve driven by the second gear spindle carries spring loaded pins in the outer end to engage a groove in shanks of different lengths of devices to be driven when a selected shank is inserted in the sleeve. (Owner) Donald M. Cargill, 9 White St., Derby, England. Groups 33—52; 35—41—42—43. Reg. No. 50,819.

Pat. 2,543,459. Curtain. Patented Feb. 27, 1951. Reg. No. 50,820.

Pat. 2,584,205. Curtain. Patented Feb. 5, 1952. Reg. No. 50,821.

The two patents listed above relate to ruffled curtains, and tie backs therefor which will maintain the curtains in a gathered position without having the tie back cord or tape passing around the vertical ruffle of the curtain.

In Pat. 2,543,459 the tie back includes an inclined U-shaped casing stitched to the curtain between a vertical edge of the curtain and the inner edge of the vertical ruffle. A cord or tape is slidable in the casing and adapted to have its ends tied to a fastening member, such as a nail attached to a window frame, to maintain the curtain in gathered position. The casing may be made either with or without a ruffle as desired.

In Pat. 2,584,205 the tie back includes an elongated strip of material stitched to the curtain at an angle to form a casing to slidably receive a cord or tape. A ring is secured to one end of the tape to engage a nail attached to a window frame. An elongated strip of material is secured to a ruffle by rows of stitching and forms a space to slidably receive the tape. The ruffle overlies the strip stitched to the curtain when the ring and other end of the tape are arranged in engagement with the nail, and the curtain will be in proper position at the window. (Owner) Nell S. Hicks, 1528 Markan Drive, N. E., Atlanta, Ga. Group 23—91.

Pat. 2,595,109. Pitch Finder for Levels. Patented Apr. 29, 1952. Pitch finder has an indicator that automatically points to the degree of pitch when the level is placed upon a surface so that the pitch or angle of inclination can be determined by the user at a glance. A sealed liquid-containing chamber having spaced front and rear glass walls is mounted in a central transverse opening in the level. A pin within the chamber, having its ends engaging in depressions in the glass walls, carries a pointer the lower end of which cooperates with a degree graduated ring within the chamber. The pointer at the upper end carries a float adapted to follow the surface of the liquid within the chamber and move the pointer so that the lower end of the pointer will cooperate with the scale on the ring to indicate the degree of inclination of the level. The lower end of the pointer is movable between the front glass wall and the ring, and the float lies between the ring and the rear glass wall to be guided thereby. (Owner) Earle R. Steady, 123 Court St., Laconia, N. H. Group 33—52. Reg. No. 50,822.

Pat. 2,609,822. Hair Curling Device. Patented Sept. 9, 1952. A three-in-one hair curling device for making pin curls comprises a comb, bobby-pin spreader, and pin curler. Hair can be quickly combed, curled and fastened with bobby-pin with this device. It eliminates the use of separate comb and curler and enables a bobby pin to be easily and quickly opened by pressing the legs of the pin against a triangular portion of the body of the device. Its size makes it desirable as a dressing table or pocketbook item. It is attractive in all-color plastics or nylon. Model will be sent on request. (Owners) Thelma C. McCormack and Cecilia G. Clark. Correspondence to Mrs. Thelma C. McCormack, 4924 Van Ness St., N. W., Washington 16, D. C. Groups 30—32; 39—81—91; 40. Reg. No. 50,823.

Pat. 2,392,024. Article of Manufacture. Patented Jan. 1, 1946. A product for use in manufacturing dolls, manikins, jewelry, toys, and the like. The product contains an inner core of uniform thickness made of flat, bendable metal, which may be deformed at the will of the user o. manufacturer. The inner core is enveloped in a thick external sheath of resilient material, such as sponge rubber. The free edges of the external sheath are secured together by an adhesive, heat treatment, sewing, or the like. The completed article is deformable. (Owner) Harriet C. Court, Summit Farm, Woodstock, Conn. Groups 30—51; 39—42—98. Reg. No. 50,824.

Pat. 2,612,100. Pneumatic Juice Extractor. Patented Sept. 30, 1952. Pneumatic juice extractor for fruits and vegetables. A wooden barrel-type receptacle has an upwardly open circular mouth with an annular shoulder adjacent the mouth. A removable two-part ported member in the receptacle is adapted to support above the bottom a sac containing pulped material from which the juice is to be extracted. A removable inflatable bladder to lie upon the sac has an upstanding stem to receive fluid under pressure from a pump or other conventional source for inflating the bladder. The bladder is held in position by a removable closure plate which includes a pair of hingedly connected semi-circular plate halves to engage the receptacle beneath the annular shoulder. The abutting edges of the plates are oppositely notched to form a port through which the bladder stem passes. A short chain is joined to the closure halves so the halves can swing on their hinges toward each other to collapse the closure for insertion and removal purposes. An outlet port slightly above the bottom of the barrel may receive a spigot for draining fluids therefrom. (Owners) Ray Delbert Bates and Norma Lee Bates. Correspondence to Ray Delbert Bates, Route 1, Box 351, Sumner, Wash. Group 35—51. Reg. No. 50,825.

Pat. 2,618,367. Fluid Transmission. Patented Nov. 18, 1952. Fluid transmission includes a rotary friction clutch for direct drive and a hydraulic coupling for variable speed drive. A drive shaft and a driven tubular shaft are journaled in a fluid-containing housing. A cup-shaped hub on the inner end of the drive shaft carries a series of impeller blades on its exterior surface to coact with a series of blades that are adjustably mounted for variation in pitch upon the exterior surface of a cup-shaped rotor on the inner end of the driven shaft. A pitch-adjusting disc slidably mounted on the driven shaft carries an annular series of spaced balls fixedly mounted on the exterior periphery of the disc. The balls are disposed in eccentric sockets in retaining heads on the inner ends of the rotor blades to connect the disc to the blades. The disc is connected to a sleeve slidable in the driven shaft. A clutch-operating rod, slidable in the sleeve, is connected to a pressure plate slidably mounted on the driven shaft. The pressure plate is positioned to coact with clutch discs in the hub on the drive shaft to couple the shafts for direct drive. Manual control levers are provided for adjusting the sleeve and clutch rod. (Owner) James R. Cook, 507 21st St., Sacramento 14, Calif. Groups 35—66; 38—31. Reg. No. 50,826.

United States Government Owned Patents

The following 20 U. S. Letters Patent owned by the United States Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title.

Pat. 2,633,539. Device for Separating Particles of Different Masses. Patented Mar. 31, 1953. This patent describes a device and method for separating particles of different masses such as isotopes. A beam of charged particles, which may be pulsed, is directed consecutively through a first alternating electric field, a field-free space, then a second alternating field, said alternating fields being substantially synchronized and having substantial components parallel to the direction of motion of the particles, the time spent in traversing the field-free space being some integral number of half-periods of the alternating fields, then through a decelerating chamber, and finally through a magnetic field perpendicular to the direction of motion whereby particles of desired mass are directed to a collecting chamber. Group 36—19. Reg. No. 50,827.

Pat. 2,633,740. Leakage Testing Method. Patented Apr. 7, 1953. This patent describes an efficient and reliable method for testing a jacketed body for airtightness, particularly the seam weld that seals the portions forming a jacket. Groups 35—42—65; 36—19. Reg. No. 50,828.

Pat. 2,634,307. High-Frequency Shunt. Patented Apr. 7, 1953. This patent covers the improved design of a high-frequency shunt capable of effectively isolating a meter connected thereto from inductive voltages produced therein, and thereby providing a voltage signal independent of frequency variations. Group 36—19. Reg. No. 50,829.

Pat. 2,634,374. Pocket Radiation Meter. Patented Apr. 7, 1953. This patent describes a pocket radiation-measuring device and more particularly an improved electrometer and an improved charging switch adaptable for use therein. The combination of an adjustable electrometer employing preformed scale in conjunction with a charging switch providing a seal which is gas-tight at all times makes it possible to mass produce a reliable and accurate pocket type radiation dosimeter. Group 36—13. Reg. No. 50,830.

Pat. 2,635,035. Preparation of Uranium Bromide. Patented Apr. 14, 1953. This patent covers a method for the preparation of uranium tetrabromide, comprising reacting uranium nitride with bromine at a temperature of about 450° C. or above and recovering the uranium bromide as formed. Group 28—89. Reg. No. 50,831.

Pat. 2,635,037. Preparation of Zirconium Tetrafluoride. Patented Apr. 14, 1953. This patent describes a method for the production of anhydrous zirconium tetrafluoride which may be successfully used to prepare zirconium metal. An aqueous solution of zirconium oxychloride is treated with aqueous hydrofluoric acid to form a zirconium fluoride precipitate, which is removed and dried at a temperature in the range of 100°–110° C. and subsequently heat treated for several hours at a temperature up to 575° C. in the presence of dry hydrogen fluoride. Group 28—89. Reg. No. 50,832.

Pat. 2,635,339. Method and Apparatus for Stereoscopic Recomposing and Measuring. Patented Apr. 21, 1953. The patent describes a new and improved combination of method and compact rugged apparatus useful for the recording, under a given set of optical conditions, of a full size visual image of the path of a particle in space and the recomposing in full size of the image under a substantially identical set of optical conditions. Group 39—12. Reg. No. 50,833.

Pat. 2,635,944. Production of Granular Beryllium Fluoride. Patented Apr. 21, 1953. This patent describes a process for converting fluffy beryllium hydroxide to granular beryllium fluoride, comprising contacting a thin bed of the beryllium hydroxide with anhydrous hydrogen fluoride for a period of several hours and at a temperature of between about 300° and 350° C. Group 28—89. Reg. No. 50,834.

Pat. 2,635,956. Preparation of Powdered Thorium. Patented Apr. 21, 1953. This patent describes a process for converting massive metallic thorium to powder metal. The massive metal is first treated in a furnace with hydrogen at slight superatmospheric pressure and a temperature of about 600° to 650° C. to form a lower hydride of thorium, ThH_2. The introduction of hydrogen is continued while lowering the temperature slowly to about 100° C., thereby forming a loosely packed powderlike compound of ThH_{3-4}. Subsequently, the introduction of hydrogen is discontinued, the furnace is evacuated, and the temperature raised to about 700° C. while maintaining vacuum, thereby producing thorium metal in powder form. Group 28—89. Reg. No. 50,835.

Pat. 2,636,044. Rare Earth Separation by Anion Exchange. Patented Apr. 21, 1953. This patent describes a process useful in the separation of rare earth elements from each other, comprising adsorbing rare earth-citrate complexes from an acidic aqueous citrate solution on a strong base type anion exchange resin and selectively eluting the rare earth complexes in the order of increasing rare earth atomic number by means of a citric acid solution having a pH value in the range of about 1.5 to 3.0. Group 28—89. Reg. No. 50,836.

Pat. 2,636,118. Pulse Equalizer. Patented Apr. 21, 1953. This patent describes a device for measuring the coincidences of electrical pulses, comprising in part means for transforming pulses of random amplitudes into pulses of equal amplitude in which the delay time for all pulses is essentially constant. Group 36—13. Reg. No. 50,837.

Pat. 2,636,886. Uranium Complexes of Heterocyclic Diketones. Patented Apr. 28, 1953. This patent describes methods for preparing certain new compositions of matter comprising the tetravalent and hexavalent complexes of uranium with various heterocyclic beta diketones where the heterocyclic radical is selected from the group consisting of furan, thiophene, pyrrole, coumarone, and the like, such as furoylacetone. Group 28—89. Reg. No. 50,838.

Pat. 2,636,990. Ion Source Unit. Patented Apr. 28, 1953. This patent describes the design of a new and improved ion source unit employing a magnetic field to influence the electron discharge therein and utilizing an effective arrangement for the removal of ions from the center of ion density. Group 36—19. Reg. No. 50,839.

Pat. 2,636,993. Fast Counting Circuit. Patented Apr. 28, 1953. This patent describes an improved electronic counter capable of high speed counting and having double coincidence circuits for identifying particular pulses in the presence of high background noise. The counter utilizes a pair of scintillation crystals aligned in the path of the beam of particles to be counted, a pair of photomultiplier tubes connected one to each of the scintillation crystals and associated circuitry and recording means. Group 36—13. Reg. No. 50,840.

Pat. 2,637,297. Apparatus for Attaching Filaments to Electrodes in Machines for Coating With Metal Vapors. Patented May 5, 1953. This patent describes an improved apparatus for attaching a filament to an electrode, particularly useful in the hot-wire method of preparing metals, such as zirconium, by the thermal decomposition of a volatile halide. Group 28—88. Reg. No. 50,841.

Pat. 2,637,298. Apparatus for Attaching Filaments to Electrodes in Machines for Coating With Metal Vapors. Patented May 5, 1953. This patent describes the design of an improved means for attaching a hot-wire filament to an electrode and comprising a re-usable adaptor unit. The electrode tip assembly for attachment of the hot-wire filament to the electrode employs easily assembled and disassembled current-carrying elements which are relatively inexpensive and expendable. Group 28—88. Reg. No. 50,842.

Pat. 2,637,536. Method of Dispersing Materials in Water. Patented May 5, 1953. This patent describes a method for the dispersal of materials in a liquid, comprising introducing into the liquid a mixture of solid carbon dioxide and the material to be dispersed. Group 28—89. Reg. No. 50,843.

Pat. 2,637,882. Vacuum Die-Casting. Patented May 12, 1953. This patent describes a new and improved design for a die-casting machine of the evacuable type, employing an airtight sealing member that will maintain an effective vacuum-tight seal without the necessity of applying any pressure thereto by either die section. The arrangement is such that the seal remains relatively cool and thereby substantially free from the deleterious effects caused by heat. Group 35—42. Reg. No. 50,844.

Pat. 2,638,406. Production of Uranium Tetrafluoride. Patented May 12, 1953. This patent covers a process for producing uranium tetrafluoride from uranium hexafluoride, comprising contacting the uranium hexafluoride at a moderately elevated temperature with a hydrogen halide selected from the group of hydrogen chloride, hydrogen bromide, and hydrogen iodide. Group 28—89. Reg. No. 50,845.

Pat. 2,638,560. Improved Window for Alpha Particle Counters. Patented May 12, 1953. This patent describes the improved construction of an alpha particle counting chamber of the evacuable type, employing a thin nylon foil window which is substantially transparent to alpha particles and soft betas and is also sufficiently robust as to withstand an appreciable pressure differential. Group 36—13. Reg. No. 50,846.

Patent Removed from Register

Pat. 2,504,772. Electrical Detector of Vapors and the Like. Reg. No. 37,776. OFFICIAL GAZETTE, Aug. 1, 1950. This patent was placed on the Register by the General Electric Company.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 9, 1953

[VOL. 671. No. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 621,409. Masonite Corporation, Chicago, Ill., and Laurel, Miss. Filed Nov. 19, 1951.

MASCON

For Hemi-Cellulose Material in Powder Form.
Claims use since Oct. 26, 1951.

Ser. No. 631,374. Perry Peat Company, Morrice, Mich. Filed June 18, 1952.



The trade-mark is described as the words "Perry Pete" in association with a fanciful human figure. Applicant disclaims the representation of the flower pot apart from the mark as shown.

For Peat, Peat Moss, and Blended Potting Soil for Use in Growing Plants.
Claims use since June 5, 1949.

Ser. No. 635,308. Chas. E. Hullhorst, doing business as Chas. E. Hullhorst Co., Cleveland, Ohio. Filed Sept. 16, 1952.



For Potting Soil and Humus for House Plants.
Claims use since Mar. 1, 1952.

Ser. No. 635,574. Dr. Alexander Wacker Gesellschaft fur Elektrochemische Industries, G. m. b. H., Munich, Bavaria, Germany. Filed June 13, 1952.

Drawinella

Applicant claims ownership of German Registrations No. 469,359, dated Sept. 27, 1934, and No. 472,945, dated Feb. 4, 1935.

For Acetylcellulose in Sheets, Films, Rods, Tubes, Pulp, Fibers and Fibrous Materials.

Ser. No. 637,460. Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Filed Oct. 31, 1952.

CAVALIER
QUEEN

Applicant claims ownership of Registrations Nos. 237,461, 401,696, and 543,042.
For Coal.
Claims use since Jan. 5, 1950.

CLASS 2

RECEPTACLES

Ser. No. 624,994. Bemis Bro. Bag Company, St. Louis, Mo. Filed Feb. 15, 1952. (Sec. 2f.)

BEMIS BAND-LABEL

Applicant claims ownership of Registrations Nos. 169,435, 219,993, and others.
For Bags Made of Paper Laminated Textile Material.
Claims use since Aug. 16, 1944.

Ser. No. 629,889. Crown Zellerbach Corporation, San Francisco, Calif. Filed May 19, 1952.



For Dispensing Cabinets for Toilet Tissue and Paper Towels.
Claims use since Apr. 22, 1952.

Ser. No. 633,609. Crook Paper Box Company, North Kansas City, Mo. Filed Aug. 8, 1952.



Applicant disclaims from the said trade-mark the name of the applicant corporation, "Crook Paper Box Company" and the notation "Co.," as shown in the drawing.
For Collapsible Cardboard and Paper Boxes.
Claims use since July 7, 1952.

Ser. No. 636,652. Price-Driscoll Corporation, New York, N. Y. Filed Oct. 15, 1952.

handy boy

No claims is made to the word "Handy" apart from the mark as shown.
For Portable Gasoline Can for Gas Motor Operated Model Toys.
Claims use since Sept. 13, 1952.

Ser. No. 640,907. O. J. Briggs Lumber Company, White Cloud, Mich. Filed Jan. 19, 1953.

REOL - CRATE

The word "Crate" is disclaimed apart from the mark as shown.
For Fruit Crates.
Claims use since Nov. 1, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 622,664. Lambert Manufacturing Co., Trenton, N. J. Filed Dec. 19, 1951.

WESTMINSTER

For Hand Luggage.
Claims use since Nov. 1, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 597,789. Stanley Home Products, Inc., Westfield, Mass. Filed May 19, 1950.

STANHOME
A STANLEY HOME PRODUCT

The words "A Stanley Home Product" are disclaimed apart from the mark as shown.
For Automobile Polishes, Metal Polishes, Polishing Waxes, and Furniture Creams for Polishing Purposes.
Claims use since Mar. 22, 1950.

Ser. No. 605,433. Joseph A. Murena, New York, N. Y. Filed Oct. 25, 1950.



The descriptive word "Kleen" is disclaimed apart from the mark as shown on the drawing submitted herewith.
For Liquid Preparation for Cleaning and Polishing Footwear, Having Incidental Preserving and Dressing Properties.
Claims use since Feb. 1, 1917.

CLASS 5

ADHESIVES

Ser. No. 620,916. The Gummed Products Company, Troy, Ohio. Filed Nov. 6, 1951.

TRO-PLY

Applicant disclaims the word "Ply" apart from the mark as shown in the drawing.
For Moisture Sensitive Adhesive Tapes, Particularly for Use in the Manufacture of Corrugated Boxes, Such as for Securing the Corners of Said Boxes.
Claims use since Sept. 24, 1951.

Ser. No. 633,349. Certofix Limited, Hull, England. Filed Aug. 1, 1952.

CERTOFIX

Applicant claims ownership of British Registration No. 483,187, dated Aug. 13, 1937.
For Adhesives for Mending Broken Articles.

Ser. No. 636,142. Nashua Corporation, Nashua, N. H. Filed Oct. 3, 1952. (Sec. 2f.)

NASHUA

Applicant claims ownership of Registrations Nos. 104,260, 326,766, and others.
For Adhesively Coated Paper Tape.
Claims use since 1911.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 603,047. The Chemical Rubber Co., Cleveland, Ohio. Filed Sept. 1, 1950.

C.R.C.

For Fine Chemicals—Namely, Chemical Elements, Inorganic Chemicals Including Acids, Bases, Salts, and Organic Chemicals Including Acids, Alcohols, Aldehydes, Ketones, Ethers, Hydrocarbons and Hydrocarbon Derivatives, Amines, Amides, and Natural and Synthetic Oils, Fats and Waxes, for General Use in the Industrial Arts.
Claims use since on or about May 1, 1944.

Ser. No. 606,353. Woburn Chemical Corp. (N. J.), Harrison, N. J. Filed Nov. 13, 1950.

ISOSTYRE

For Styrenated Dehydrated Castor Oil.
Claims use since June 20, 1950.

Ser. No. 612,825. Ralston Purina Company, St. Louis, Mo. Filed Apr. 18, 1951. (Sec. 2f.)

CHEK-R-TABS

Applicant claims ownership of Registration No. 407,240.
For Water Disinfectant.
Claims use since November 1940.

Ser. No. 625,587. Charles F. Dulken, Kearny, N. J. Filed Feb. 27, 1952.

SURCONIT

Applicant claims ownership of Registration No. 532,099.
For Chemical Liquid for Moistening, Conditioning, Twist-Setting, Lubrication and Mildew-Proofing of Textile Fibers and Yarns.
Claims use since Aug. 1, 1946.

Ser. No. 627,845. Snyder Chemical Corporation, Bethel, Conn. Filed Apr. 9, 1952.

SYNCAST

Applicant claims ownership of Registration No. 531,483.
For Polymerizable Casting Materials Comprising Synthetic Resins Marketed in Both the Liquid and Solid State.
Claims use since Sept. 15, 1946.

Ser. No. 628,616. The D-Con Company, Inc., Chicago, Ill. Filed Apr. 24, 1952.

WARFICIDE

For Rodenticide.
Claims use since Apr. 9, 1952.

Ser. No. 629,649. Capital Plastics, Inc., Rochester, N. Y. Filed May 14, 1952.

SPECTRON

For Thermosetting Resins in the Forms of Granules and Powders.
Claims use since Apr. 15, 1952.

Ser. No. 629,939. Foote Mineral Company, Philadelphia, Pa. Filed May 20, 1952.

Lithochlor

The drawing is lined for the color red.
For Dry, Completely Soluble Household Bleaching Agent.
Claims use since Nov. 14, 1951.

Ser. No. 630,251. E. F. Drew & Co. Inc., New York, N. Y. Filed Apr. 25, 1952.

REPELITALL

For Liquid Composition Used for Impregnating Textile Fibers to Impart Fastness and Render Fibers Resistant to Staining and to Spotting by Water and Other Substances.
Claims use since Mar. 28, 1952.

Ser. No. 630,274. E. E. Litkenhous, doing business as Litko Products and Chemical Company, Nashville, Tenn. Filed May 26, 1952.

Litko

For Fine Chemicals—Namely, Nicotinic Acid, Benzoic Acid, and Methyl Ethyl Pyridine; and Oil-Chemical Mixtures—Namely, Oxidized Petroleum, Anti-Oxidant Solutions, and Naphthenic Acid and Sodium and Lead Salts Thereof.
Claims use since Feb. 28, 1952.

Ser. No. 630,387. Capital Plastics, Inc., Rochester, N. Y. Filed May 28, 1952.

*-STAR*DUST-*

For Thermosetting Resins in the Forms of Granules and Powders.
Claims use since on or about May 16, 1952.

Ser. No. 630,443. Rohm & Haas Company, Philadelphia, Pa. Filed May 28, 1952.

PARALOID

For Synthetic Resinous Materials in the Form of Granules, Powders, and Solutions for Use in Printing Inks, Coatings, Films, and Adhesives.
Claims use since Feb. 26, 1952.

Ser. No. 630,589. Edwal Scientific Products Corp., Ringwood, Ill. Filed June 2, 1952.

VELVET

For Photographic Developer, Sold in the Form of a Concentrate To Be Diluted With Water To Form a Photographic Paper Developer.
Claims use since on or about Feb. 26, 1951.

Ser. No. 633,358. Foote Mineral Company, Philadelphia, Pa. Filed Aug. 1, 1952.

Tanarc

The drawing is lined for the color blue.
For Chemical-Metallurgical Preparation—Namely, a Rutile Substitute for the Manufacture of Arc Welding Electrodes.
Claims use since July 3, 1952.

Ser. No. 633,822. Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Filed July 12, 1952.

Vinnapas

Applicant claims ownership of German Registration No. 366,849, dated May 7, 1927.
For Polyvinyl Acetate.

Ser. No. 634,074. Compagnie Francaise des Matieres Colorantes, Paris, France. Filed Aug. 18, 1952.

NEUTROGENE

Applicant claims ownership of French Registration No. 418,017, dated Feb. 15, 1952.
For Chemical Dyestuffs, More Particularly for Dyeing and Printing All Kinds of Vegetable and Synthetic Fibres.

Ser. No. 635,663. Rohm & Haas Company, Philadelphia, Pa. Filed Sept. 23, 1952.

AMBERPLEX

Applicant claims ownership of Registration No. 432,868.
For Material for Use in Removing or Replacing Ions or Acid-Forming Constituents From Fluids.
Claims use since on or about Aug. 28, 1952.

Ser. No. 635,998. Claire Manufacturing Company, Chicago, Ill. Filed Oct. 1, 1952.

Moth Jinx

No registration rights are claimed for the word "Moth" apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 401,454 and 376,773.
For Moth Proofing Preparation.
Claims use since September 1949.

Ser. No. 636,025. Monsanto Chemical Company, St. Louis, Mo. Filed Oct. 1, 1952.

ACTAMER

For Chemicals Having Bactericidal, Bacteristatic or Deodorant Properties, and Being Suitable for Use in Soap, Cosmetics, and Other Preparations for Personal Use.
Claims use since July 15, 1952.

Ser. No. 637,049. Hal-Pro Processing Company, Patton, Pa. Filed Oct. 23, 1952.

Big-San

The drawing is lined for blue and green.
For Disinfectant, Deodorant, and Germicide for General Household and Similar Uses.
Claims use since August 1951.

Ser. No. 637,159. Van Waters & Rogers, Inc., Seattle, Wash. Filed Oct. 24, 1952.

Guardsman

Applicant claims ownership of Registration No. 404,439.
For Anti-Freeze Solutions.
Claims use since on or about Sept. 1, 1951.

Ser. No. 637,897. The William A. Webster Company, Memphis, Tenn. Filed Nov. 10, 1952.

Kolium Chloride

The word "Chloride" is disclaimed apart from the mark as shown in the drawing.
For Cold Germicidal Concentrate Used To Sanitize, Deodorize, and Prevent Rusting of Surgical Instruments, Waste Receptacles, Walls, Furniture, Rubber Gloves, Masks, and Other Surfaces.
Claims use since Aug. 29, 1952.

Ser. No. 639,829. Petrolite Corporation, Webster Groves, Mo. Filed Dec. 20, 1952.

DEMULSO

For Demulsifier.
Claims use since Nov. 25, 1952.

Ser. No. 640,738. Jasgo Chemical Co., Brooklyn, N. Y. Filed Jan. 14, 1953.

"WIFF"

For Insecticides, Space Deodorants.
Claims use since Apr. 22, 1951.

Ser. No. 640,784. John A. Chew, Incorporated, New York, N. Y. Filed Jan. 15, 1953. (Sec. 2f.)

CHEW

For Acetone, Carbon Tetrachloride, Caustic Soda, and Trisodium Phosphate.
Claims use since April 1947.

Ser. No. 643,734. Synthetic Chemicals, Inc., Paterson, N. J. Filed Mar. 16, 1953.

TENSOL

Applicant claims ownership of Registration No. 269,903.
For Colloidal Penetrating Agent Used in the Textile Industry.
Claims use since December 1926.

Ser. No. 643,989. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Mar. 20, 1953.

RUSKO

For Water Softening Compound.
Claims use since Dec. 2, 1952.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 638,054. Atlas Powder Company, Wilmington, Del. Filed Nov. 14, 1952.

STATICMASTER

For Detonators—Namely, Electric Blasting Caps.
Claims use since Oct. 31, 1952.

Ser. No. 638,954. Federal Cartridge Corporation, Minneapolis, Minn. Filed Dec. 4, 1952.

FAVORITE

For Air Rifle Shot.
Claims use since Aug. 21, 1952.

CLASS 10

FERTILIZERS

Ser. No. 614,291. Davies Nitrate Co., Inc., New York, N. Y. Filed May 24, 1951.

GreenKeeper

The word "Green" is disclaimed by the applicant apart from the mark as shown on the drawing.
For Enriched Organic Plant Food.
Claims use since May 1950.

Ser. No. 639,725. The Stadler Fertilizer Company, Cleveland, Ohio. Filed Dec. 18, 1952.

TNT

Applicant claims ownership of Registration No. 509,612.
For Fertilizer.
Claims use since Nov. 7, 1952.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 624,602. Herman J. Kraus, doing business under the name Kraus Ribbon and Carbon Company, Pittsburgh, Pa. Filed Feb. 6, 1952.

Signal Letter Balance

The words "Letter Balance" are disclaimed apart from the mark as shown.
For Carbon Papers and Inked Ribbons for All Business Machines, Including Spirit Process Master Units, Spirit Carbon Papers, and Duplicating Papers Coated With Copying Ink Material.
Claims use since Oct. 13, 1947.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 582,784. Gustav Grothman, doing business as The Veneer Tile Products Co., Miami, Fla. Filed Aug. 1, 1949.

STONEX

For Floor and Wall Tile, Building Fronts, Window Sills, Stair Treads, Stoop and Stair Landings, Shower Stalls, and Stepping or Flag Stone for Patios or Walk-Ways, All Formed of Marbleized, Vibrated Cementitious Materials.
Claims use since September 1947.

Ser. No. 618,263. The Inland Fire Brick Company, Cleveland, Ohio. Filed July 19, 1951.

BRIXPLASTIC

Applicant claims ownership of Registration No. 272,557.
For Plastic Fire Brick—Namely, Refractory Cement.
Claims use since Oct. 22, 1929.

Ser. No. 622,201. Columbus Lumber Company, Brookhaven, Miss. Filed Dec. 7, 1951.

DISCOVERY BRAND

No claim of exclusive use is made with reference to the word "Brand."
For Yellow Pine and Hardwood Flooring, and Hardwood and Pine Millwork, Including Window Sash Rails and Quarter Round, Used in the Construction of Buildings.
Claims use since Aug. 1, 1950.

Ser. No. 626,477. E. J. Stanton & Son, Inc., Vernon, Calif. Filed Mar. 14, 1952.

PHILSIDE

For Hard and Soft Wood Paneling.
Claims use since Dec. 14, 1951.

Ser. No. 629,266. Truscon Steel Company, Youngstown, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Filed May 6, 1952.

DONOVAN TRUAIRE

No claim is made to the word "Donovan" apart from the mark shown in the drawing.
For Windows.
Claims use since December 1951.

Ser. No. 629,990. Diamond Springs Lime Company, San Francisco, Calif. Filed May 21, 1952.

Marvel

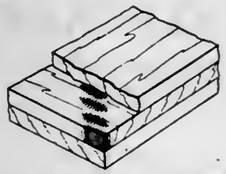
The drawing is lined for the color red.
For Lime for Construction Purposes.
Claims use since Apr. 1, 1952.

Ser. No. 632,458. Van Cleef Bros. Inc., Chicago, Ill. Filed July 11, 1952. (Sec. 2f.)

Rub'R-Shim

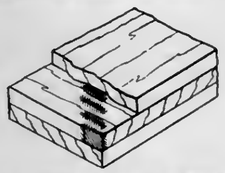
Applicant claims ownership of Registration No. 386,614.
For Sponge Rubber Weatherstrip.
Claims use since Dec. 28, 1932.

Ser. No. 633,720. Douglas Fir Plywood Association, Tacoma, Wash. Filed Aug. 11, 1952. COLLECTIVE MARK.



The mark is a design mark and comprises a red dash line in the cross banding veneer of plywood. The dash line in the drawing is shaded to indicate red.
For Plywood.
Claims use since June 9, 1952.

Ser. No. 633,721. Douglas Fir Plywood Association, Tacoma, Wash. Filed Aug. 11, 1952. COLLECTIVE MARK.



The mark is a design mark and comprises a green dash line in the cross banding veneer of plywood. The dash line in the drawing is shaded to indicate green.
For Plywood.
Claims use since June 9, 1952.

Ser. No. 634,862. Rheinische Rohrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany. Filed Sept. 4, 1952.



Applicant claims ownership of German Registration No. 613,906, dated Nov. 14, 1951.
For Metal Roof Frame Works.

Ser. No. 634,866. Skaggs Mfg. Co., Inc., Memphis, Tenn. Filed Sept. 4, 1952.

Perma-Shade

No claim is made to the word "Shade" apart from the mark.
For Metal Awnings.
Claims use since Feb. 1, 1947.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 531,615. Elastic Stop Nut Corporation of America, Union, N. J., assignee of Mid-Continent Metal Products Company. Filed Aug. 16, 1947.

ROLL-PIN

No claim is made to the word "Pin" apart from the mark in its entirety.
For Spring Pin Fasteners of the Dowel Pin Type.
Claims use since June 24, 1947.

Ser. No. 552,409. Band-It Company, Denver, Colo. Filed Mar. 10, 1948. (Sec. 2f.)

BAND-IT

For Industrial Pressure Clamps and Parts Thereof.
Claims use since Dec. 1, 1937.

Ser. No. 625,622. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Filed Feb. 27, 1952.

METSEAL

For Fluid Conduit Couplings.
Claims use since Nov. 21, 1938.

Ser. No. 625,623. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Filed Feb. 27, 1952.

SOLSEAL

For Fluid Conduit Couplings.
Claims use since Nov. 21, 1938.

Ser. No. 626,418. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 13, 1952.

UNITROL JUNIOR

Applicant claims ownership of Registration No. 533,694.
For Metal Valves and Cocks for Controlling Gaseous Fluids.
Claims use since Apr. 29, 1940.

Ser. No. 634,224. The Toidey Company, Gertrude A. Muller, Inc., Fort Wayne, Ind. Filed Aug. 20, 1952.

Toidey Co

Applicant claims ownership of Registration No. 195,783.
For Toilet Seat for Infants Attached to an Adult Toilet Seat, and Anti-Splash Deflector for Attachment to Infant's Toilet Seat.
Claims use since Nov. 28, 1951.

Ser. No. 635,572. Apex (Trinidad) Oilfields, Limited, London, England. Filed Sept. 16, 1952.

ATOL

Applicant claims ownership of British Registration No. 701,622, dated Sept. 29, 1951.
For Fluid Control Valves, Not Being Parts of Machines.

Ser. No. 636,668. John D. Yarnell, Edmonds, Wash. Filed Oct. 13, 1952. (Sec. 2f.)

CLEAR-FLO

For Separate Screens for Straining Paint in Association With Spray Guns.
Claims use since December 1945.

Ser. No. 637,195. The Shelby Spring Hinge Company, Shelby, Ohio. Filed Oct. 25, 1952. (Sec. 2f.)

SHELBY

For Floor Hinges, Door Hinges, Push Plates, Door Pulls, Pneumatic Door Closers, Door Holders, Door Braces, Door Guards, Door Chains, Surface Bolts, Drawer Pulls, Sash Lifts, Bar Lifts, Sash Locks, Window-Fasteners, and Closet Rods.
Claims use since Jan. 19, 1901.

Ser. No. 637,996. Alex D. Karpoff, doing business as American Muffler Co., Boston, Mass. Filed Nov. 13, 1952.

Autograph

For Combination Key Ring, Chain, and Emblem.
Claims use since Aug. 22, 1952.

Ser. No. 639,599. Lewis Weiner, doing business as Lewis Weiner Engineering Co., Long Island City, N. Y. Filed Dec. 16, 1952.

BULLDOG



For Hookless Fasteners, Stringers, and Sliders for Hookless Fasteners.
Claims use since Oct. 2, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 630,400. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

Applicant claims ownership of Registrations Nos. 339,329, 390,078, and 394,883.
For Tool Steel—Namely, Cobalt, Molybdenum, and Tungsten Alloys for Cutting Tools, Generally Known as High Speed Steel.
Claims use since Apr. 6, 1951, as shown; and since Mar. 1, 1935, as to "DoAll."

Ser. No. 630,996. Doehler-Jarvis Corporation, Toledo, Ohio, assignor to National Lead Company, New York, N. Y., a corporation of New Jersey. Filed June 10, 1952.

BRASTIL

Applicant claims ownership of Registration No. 295,864.
For Castings of Brass Alloy.
Claims use since Feb. 28, 1952, as shown; and since Dec. 17, 1931, in a different form.

Ser. No. 637,096. Vacuum Metals Corporation, Cambridge, Mass. Filed Oct. 23, 1952.

FERROVAC

For Iron, Steel, and Iron Base Alloys.
Claims use since in or about September 1952.

Ser. No. 638,251. Foilrapp, Inc., Seattle, Wash. Filed Nov. 18, 1952. (Sec. 2f.)

FOILRAPP

Applicant claims ownership of Registration No. 299,337.
For Aluminum Foil in Packaged Roll and Flat Sheet Form.
Claims use since on or about Mar. 1, 1946.

Ser. No. 638,252. Foilrapp, Inc., Seattle, Wash. Filed Nov. 18, 1952. (Sec. 2f.)

FOILRAPP

Applicant claims ownership of Registration No. 299,337.
For Aluminum Foil in Packaged Roll and Flat Sheet Form.
Claims use since on or about Apr. 1, 1946.

Ser. No. 638,820. The Timken Roller Bearing Company, Canton, Ohio. Filed Dec. 1, 1952.

GRAPH-MO HOLLOW-BAR

The words "Hollow-Bar" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 348,985.
For Turned and Bored Steel Bars.
Claims use since July 7, 1952, as shown; and since Feb. 4, 1937, for "Graph-Mo" alone.

CLASS 15

OILS AND GREASES

Ser. No. 639,163. Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Filed Dec. 8, 1952.

SOJAY

For Refined, Semi-Refined, and Unrefined Petroleum Oils and Fractions for Fuel, Power, Lighting, Heating, and Lubricating Purposes and Paraffin Waxes.
Claims use since Jan. 11, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 547,606. Baltimore Paint & Color Works, Baltimore, Md. Filed Jan. 21, 1948. (Sec. 2f.)

Gleem

For Ready Mixed House Paint, Paint and/or Baking Enamel, Varnish, Liquid Wood Stain, Traffic Paint, and Colors in Oil in Concentrated Form Used for Coloring, Tinting, and Shading Other Paints.
Claims use since December 1934.

Ser. No. 613,511. Industrial Chemical Laboratories, Inc., Omaha, Nebr. Filed May 4, 1951.



For Protective Finish Coatings—Namely, Waxes in Spirit and Water Emulsion, Oil Dressings, Paints and Synthetic Resin Containing Sealing, Waterproofing, and Primer Coating Compositions for Floors and Other Surfaces.
Claims use since Mar. 1, 1951.

Ser. No. 625,340. Chrome-Tec Distributing Company, Ferndale, Mich. Filed Feb. 21, 1952.

SEAL-TEC



No claim is made to the word "Seal" apart from the mark as shown on the drawing.
For Chemical Composition in the Form of a Coating for Waterproofing and Preserving Automotive Ignition Systems.
Claims use since June 1, 1951.

Ser. No. 628,191. Center Chemical Corporation, Cleveland, Ohio. Filed Apr. 17, 1952.

X-pose

For Metal-Surface Coating Compositions for Eliminating Corrosion, Rusting, Tarnishing, Etc.
Claims use since Mar. 1, 1952.

Ser. No. 628,250. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Apr. 18, 1952.

ELPRENE

For Liquid Synthetic Rubber Preparation Which on Being Catalyzed Is Adapted To Be Applied to a Surface To Form a Rubber Coating Thereon.
Claims use since Feb. 25, 1952.

Ser. No. 635,882. Parker Rust Proof Company, Detroit, Mich. Filed Sept. 27, 1952.

PARCO BLACK

The word "Black" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 230,654.
For Phosphate Coating Composition for Producing a Jet Black Finish on Ferrous Surfaces.
Claims use since Apr. 1, 1952.

Ser. No. 639,240. The Patterson-Sargent Company, Cleveland, Ohio. Filed Dec. 9, 1952.



Applicant claims ownership of Registrations Nos. 27,640, 29,910, and others.
For Ready-Mixed Paint.
Claims use since Dec. 2, 1952.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 637,951. Rothenberg & Schloss Cigar Company, Kansas City, Mo. Filed Nov. 12, 1952.



The words "Pipe Mixture" as shown in the drawing and specimens of the mark are disclaimed apart from the mark as used.
For Pipe Tobacco.
Claims use since Dec. 18, 1936.

Ser. No. 638,801. Larus & Brother Company, Richmond, Va. Filed Dec. 1, 1952.

Hale

For Cigarettes.
Claims use since Nov. 13, 1952.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 618,478. Barlow-Maney Laboratories, Cedar Rapids, Iowa. Filed Sept. 7, 1951.

VIR-I-TIN

For Preparation in Tablet Form, Used in the Treatment of High Blood Pressure.
Claims use since Aug. 1, 1950.

Ser. No. 624,597. Heyden Chemical Corporation, New York, N. Y. Filed Feb. 6, 1952.

BONACAINE

For Local Anesthetic.
Claims use since Dec. 26, 1951.

Ser. No. 626,126. Vitamin Industries, Inc., Omaha, Nebr. Filed Mar. 7, 1952. (Sec. 2f.)

DIETRIM

For Vitamin Dietary Supplements.
Claims use since Apr. 1, 1944.

Ser. No. 627,449. Live Food Products Co., Burbank, Calif. Filed Apr. 2, 1952.

GERI-GLO

For Hematinic and Vitamin Preparation.
Claims use since Feb. 25, 1952.

Ser. No. 634,360. James H. Austin, doing business as J. H. Austin Company, Charlotte, N. C. Filed Aug. 23, 1952.

POLY-CON

For Vitamin Preparation.
Claims use since May 22, 1952.

Ser. No. 634,361. James H. Austin, doing business as J. H. Austin Company, Charlotte, N. C. Filed Aug. 23, 1952.

POLY-MIN

For Vitamin Preparation.
Claims use since May 9, 1952.

Ser. No. 634,726. Keith K. Bandy, doing business as Keith Laboratory, Cincinnati, Ohio. Filed Sept. 2, 1952.

CHIG-R-GO

The term "Chig-R" is disclaimed apart from the mark as shown.
For Preparation for External Application for Relief From Insect Bites.
Claims use since May 15, 1952.

Ser. No. 635,046. Metz Pharmacal Company, Linden, N. J. Filed Sept. 9, 1952.

HIPORON B-12

Applicant disclaims the term "B-12" apart from the mark as shown on the drawing.
For Medicinal Preparation—Namely, a Liver and Iron Vitamin in Capsule Form.
Claims use since July 15, 1952.

Ser. No. 636,101. The Upjohn Company, Kalamazoo, Mich. Filed Oct. 2, 1952.

Udicillin

Applicant claims ownership of Registrations Nos. 431,829 and 545,324.

For Water-Insoluble Salt of Penicillin for the Treatment of Infectious Diseases.

Claims use since Aug. 13, 1952.

Ser. No. 638,017. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Nov. 13, 1952.

MIPRONOL

For Medicinal Preparation Useful as a Nasal Inhalant, Vasoconstrictor Agent, and/or Pressor Agent.

Claims use since Oct. 30, 1952.

Ser. No. 638,049. Ames Company, Inc., Elkhart, Ind. Filed Nov. 14, 1952.

AVACAN

For Anti-Spasmodic Preparation.

Claims use since Oct. 13, 1952.

Ser. No. 639,359. Abbott Laboratories, North Chicago, Ill. Filed Dec. 12, 1952.

SUDEXOL

For Medicinal Preparation for Parenteral Use as a Muscle Relaxant.

Claims use since Nov. 18, 1952.

Ser. No. 639,718. Schering Corporation, Bloomfield, N. J. Filed Dec. 18, 1952.

DICHLORMETON

For Anti-Histamine Preparation.

Claims use since Oct. 23, 1952.

Ser. No. 639,790. Strong Cobb & Company, Inc., Cleveland, Ohio. Filed Dec. 19, 1952.

TetroPENTObarb

For Sedative Preparation Comprising a Combination of Pentobarbital Sodium and Pentylenetetrazol.

Claims use since on or about Nov. 7, 1952.

Ser. No. 639,792. Strong Cobb & Company, Inc., Cleveland, Ohio. Filed Dec. 19, 1952.

TetroSECObarb

For Sedative Preparation Comprising a Combination of Secobarbital Sodium and Pentylenetetrazol.

Claims use since on or about Nov. 7, 1952.

Ser. No. 639,986. Duo-Way Pharmacal Corporation, New York, N. Y. Filed Dec. 24, 1952.

DUO-WAY

For Medicinal Preparations Indicated in and for the Relief and Treatment of the Pathological Manifestations of Hemorrhoids (Piles).

Claims use since Oct. 20, 1952.

Ser. No. 639,996. International Minerals & Chemical Corporation, Chicago, Ill. Filed Dec. 24, 1952.

AC'CENT

For Cough Syrup.

Claims use since Nov. 17, 1952.

Ser. No. 640,183. The Mara Laboratories, Inc., Harrison, N. J. Filed Dec. 30, 1952.

PROLAX

For Medicinal Preparation Intended To Aid in the Treatment of Constipation.

Claims use since Sept. 10, 1952.

CLASS 19

VEHICLES

Ser. No. 627,645. S & S Industries, Chicago, Ill. Filed Apr. 5, 1952.

"Handy-Andy"

For Metal Trays for Attachment to the Dashboards of Automobiles.

Claims use since August 1950.

Ser. No. 632,758. Glenn A. Steven, doing business under the firm name Steven Motor Chair Co., Kansas City, Kans. Filed July 18, 1952. (Sec. 2f.)

Electro-Glide

For Electric Motor-Propelled Chair Vehicles.

Claims use since on or about Mar. 1, 1947.

Ser. No. 634,214. Packard Motor Car Company, Detroit, Mich. Filed Aug. 20, 1952.

Clipper

For Automotive Vehicles—Namely, Passenger Cars and Parts Thereof.

Claims use since on or about May 23, 1941.

Ser. No. 639,695. Farber Brothers, Inc., Memphis, Tenn. Filed Dec. 18, 1952.

ROCKET

For Automobile Seat Covers.

Claims use since Nov. 28, 1952.

Ser. No. 639,823. Hudson Motor Car Company, Detroit, Mich. Filed Dec. 20, 1952. (Sec. 2f as to "Hudson.")

HUDSON JET

Applicant claims ownership of Registrations Nos. 111,825, 521,163, and 555,710.

For Automobiles and Automobile Bodies.

Claims use since on or about Dec. 4, 1952, as to the mark shown; and since July 1909, as to "Hudson."

Ser. No. 642,104. Ward Brothers Manufacturing Company, Monticello, Ark. Filed Feb. 11, 1953.

DURA CRAFT

The word "Craft" is disclaimed apart from the mark as shown on the drawing.

For Row Boats, Outboard Power Boats, and Outboard Cruisers Made of Aluminum.

Claims use since on or about June 15, 1946.

Ser. No. 642,219. Goldblatt Bros. Inc., Chicago, Ill. Filed Feb. 13, 1953.

APOLLO

For Automobile Seat Covers.

Claims use since Feb. 2, 1953.

Ser. No. 642,625. Dieterich Products Corporation, Michigan City, Ind. Filed Feb. 24, 1953.

KAR-STAT

Applicant disclaims the term "Kar" apart from the mark as shown.

For Automobile Anti-Skid Stabilizer.

Claims use since on or about Feb. 14, 1953.

Ser. No. 644,297. General Motors Corporation, Detroit, Mich. Filed Mar. 27, 1953.

Corvette

For Automobiles.

Claims use since Jan. 9, 1953.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 633,664. Congoleum-Nairn Inc., Kearny, N. J. Filed Aug. 9, 1952.

"Jackstraw"

For Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition, Coated or Printed Surface.

Claims use since June 10, 1952.

Ser. No. 633,665. Congoleum-Nairn Inc., Kearny, N. J. Filed Aug. 9, 1952.

Rocket

For Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition, Coated or Printed Surface.

Claims use since June 10, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 614,016. Smitsvonk N. V., The Hague and Rijswijk (Z.-H.), Netherlands. Filed May 17, 1951.



The mark comprises a fanciful letter "S" and an electrical capacitance symbol therewithin. Applicant claims ownership of Dutch Registration No. 103,813, dated Jan. 26, 1950.

For Parts of Low Tension Capacitive Automotive Ignition Apparatus, Particularly for Automobile and Air Craft Engines and for Producing Light Flashes—Namely, Spark Plugs, Distributors, Magnetos, Ignition Coils, Generators, Magnets, Electric Cables, Batteries, Vibrators, Spark Bridges, Rectifiers, Condensers, Cut-out Switches, Relays, Voltage Regulators, and Starter Switches.

Ser. No. 620,943. Vanity Fair Corporation, Waltham, Mass., now by change of name Hartford Battery Corporation. Filed Nov. 6, 1951.

Hartford

Applicant claims ownership of Registration No. 134,677.

For Storage Batteries.

Claims use since June 3, 1919.

Ser. No. 623,921. Swivelier Company, Inc., New York, N. Y. Filed Jan. 22, 1952.

Swivomatic

For Swivel Joints Whereby Adjacent Ends of Arms for Electrical Lighting Fixtures Are Joined.
Claims use since Dec. 1, 1951.

Ser. No. 624,082. Dupli-Color Products Co., Inc., Chicago, Ill. Filed Jan. 25, 1952.

Tele • Fix

For Clear Acrylic Spray Used to Waterproof, Rustproof, and Electrically Insulate Metallic Surfaces.
Claims use since Jan. 7, 1952.

Ser. No. 626,417. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 13, 1952.

UNITROL

Applicant claims ownership of Registrations Nos. 551,279 and 361,576.
For Valves Operated by an Electromagnet.
Claims use since Dec. 29, 1945.

Ser. No. 626,419. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 13, 1952.

UNITROL
JUNIOR

Applicant claims ownership of Registrations Nos. 533,694, 361,576, and 551,279.
For Valves Operated by an Electromagnet.
Claims use since Apr. 29, 1949.

Ser. No. 628,694. Home Maintenance Service, Inc., Hutchinson, Kans. Filed Apr. 25, 1952.

Perma-Health

The word "Health" is disclaimed apart from the mark as shown.
For Electrically Operated Vaporizing Unit for Volatile Materials.
Claims use since Oct. 5, 1951.

Ser. No. 631,489. Robert E. McMahon, doing business as Sentinel Manufacturing Co., Seattle, Wash. Filed June 20, 1952.

SENTINEL

For Corrosion Inhibiting Anode Assemblies Consisting of One or More Anodes Mounted on a Holding Means Therefor and Component Parts for Said Assemblies.
Claims use since Feb. 15, 1949.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 558,066. The Quell Products Company, Arlington, Va. Filed May 28, 1948.

KREE-8!

For Toy Kits Containing Strands of Stiff Wire From Which Various Figures May Be Formed.
Claims use since Nov. 15, 1947.

Ser. No. 616,054. Thomas B. Semans, Jr., Philadelphia, Pa. Filed July 3, 1951.

WINDSOR

For Golf Balls.
Claims use since June 20, 1951.

Ser. No. 624,079. J. De Beer & Son, Albany, N. Y. Filed Jan. 25, 1952.

POWER-BALL

No claim is made to the word "Ball" separate and apart from the mark as shown in the drawing.
For Baseballs.
Claims use since Dec. 27, 1951.

Ser. No. 627,781. Dale F. Sweet, Chandler, Ariz. Filed Apr. 8, 1952.

HOPPY-COPTER

For Toy Comprising Two Divergently Arranged Flexible Strips Attached to One End of an Elongated Cylindrical Body Portion for Causing Said Combination to Fly.
Claims use since Dec. 15, 1951.

Ser. No. 627,863. Norm Begg Co., Newport Beach, Calif. Filed Apr. 10, 1952.

ROLGIDE

For Fishing Rods.
Claims use since Dec. 1, 1951.

Ser. No. 628,347. The Creek Chub Bait Company, Garrett, Ind. Filed Apr. 19, 1952.

Blue Flash

Applicant claims ownership of Registration No. 231,475.
For Artificial Fish Lures.
Claims use since Feb. 12, 1952.

Ser. No. 631,333. William J. Weir, Devon, Conn. Filed June 17, 1952.

DiceDek

For Table Game Played With a Pair of Dice and a Deck of Specially Designed Cards.
Claims use since May 29, 1951.

Ser. No. 631,440. F. A. O. Schwarz, New York, N. Y. Filed June 19, 1952. (Sec. 2f.)



Applicant claims ownership of Registration No 31,839.
For Games—Namely, Card Games, Horse Shoe Pitching Games, Board Games With Moving Pieces, Simulated Athletic Games, Pool and Billiard Tables, and Ping Pong Sets; for Toys—Namely, Dolls, Stuffed Figure Toys, Rocking Horses, Animal Figure Toys on Wheels, Teething Toys, Musical Rockers, Musical Animal Figure Toys, Doll Layettes, Doll Clothing, Doll Furniture, Doll Luggage, Doll Carriages, Doll Houses, Play Houses, Cash Registers, Telephones, Beverage Dispensers, Electric Irons, Vacuum Cleaners, Luncheon Kits, Building Blocks, Trains, Wagons, Sewing Machines, Painting Sets, Blackboard Sets, Typewriters, Tool Kits, Accordions, Pianos, Stringed Instruments, Wind Instruments, Phonographs, Puppet Shows, Circuses, Vehicles, Artillery, Boats, Airplanes, Steam Engines, Toy Guns, Chemical Kits, and Electrical Kits; and for Sporting Goods—Namely, Skis, Ice Skates, Roller Skates, Sleds, Velocipedes, Game Balls, Boxing Gloves, Archery Sets, Dart Boards, and Golf Clubs.
Claims use since 1862 as to "F. A. O. Schwarz"; since Sept. 1, 1881, as to the representation of a bell; and since Nov. 28, 1885, as to the composite mark.

Ser. No. 632,840. Healthways, Los Angeles, Calif. Filed July 21, 1952.

RING MASTER

For Rubber Horseshoes for Use in Playing the Game of Horseshoes.
Claims use since Dec. 1, 1951.

Ser. No. 633,203. Gladys M. Johnson, Timber, Oreg. Filed July 29, 1952.

HANDY HAND

The word "Handy" is disclaimed apart from the mark as shown in the drawing.
For Playing Card Holder for Holding Cards in Playing the Game.
Claims use since July 10, 1952.

Ser. No. 638,532. Louise Cook Goodwin, Arlington, Tex. Filed Nov. 24, 1952.

HEART'S DESIRE by MARGIE LOU

For Ceramic Dolls.
Claims use since Aug. 10, 1950.

Ser. No. 642,244. Shoe Corporation of America, Columbus, Ohio. Filed Feb. 13, 1953.

Sport Stars

For Men's, Women's, and Children's Skating Shoes With Roller Skates Attached and Skating Shoes With Ice Skates Attached.
Claims use since Mar. 24, 1952.

Ser. No. 643,371. Putt-Master, Phoenix, Ariz. Filed Mar. 9, 1953.

PEND-L-PUTTER

Applicant disclaims the word "Putter" except in connection with the mark as shown.
For Golf Putters.
Claims use since Jan. 12, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 595,688. Sunbeam Corporation, Chicago, Ill. Filed Apr. 13, 1950.

Sunbeam

For Animal Grooming Machines—Namely, Machines for Brushing and Currying Animals.
Claims use since Feb. 17, 1950.

Ser. No. 621,274. A. Y. McDonald Mfg. Co., Dubuque, Iowa. Filed Nov. 15, 1951. (Sec. 2f.)

McDonald

Applicant claims ownership of Registrations Nos. 527,978 and 527,979.
For Shallow and Deep Well Reciprocating Pumps, Jet Pumps, Cellar Pumps, Pitcher Pumps, Cistern Pumps, Single and Double Acting Force Pumps, Galley Pumps, Tank Pumps, Lift Pump Standards, Underground Valve Force Pumps, Bilge Pumps, Gallon Stroke Pumps, Sludge Pumps, Hand and Power Rotary Pumps, Pump Cylinders, Pump Plungers, Pump Jacks, Poppet Valves for Pump Cylinders, Pump Rods, Pump Rod Couplings, Pipe Dogs, and Clamping Pipe Holders for Holding Well Pipe Being Lifted From

or Lowered Into a Well, Hand Tools for Removing Foot Valves in Water, Oil and Gasoline Pumps, Repair and Service Kits for Pumps Comprising Gaskets, Cap Screws, Valve Springs, Packing, Sealing Tools and Specialty Tools Sold as a Unit, Stuffing Box Heads for Use in Connecting Windmills With Pumps, Drive Shoes for Pumps, and Oil and Gasoline Reciprocating Pumps.
Claims use since 1908.

Ser. No. 626,152. Continental Motors Corporation, Muskegon, Mich. Filed Mar. 8, 1952.

Co-Matic

For Gearing and Transmissions and Parts Thereof.
Claims use since Jan. 10, 1952.

Ser. No. 626,559. Capital Industries, Inc., Portland, Oreg. Filed Mar. 17, 1952.

Industrial Monkey

The word "Industrial" is disclaimed apart from the mark as shown.
For Vehicle Mounted Hydraulically Operated Extensible and Adjustable Telescopic Mast Mounted on a Rotary Turntable for Supporting an Occupant Platform or Carriage Used for Pruning Trees, Picking Fruit, as Well as Other Operations Requiring Such Adaptation.
Claims use since March 1950.

Ser. No. 627,067. Jacobson Machine Works, Minneapolis, Minn. Filed Mar. 26, 1952.



For Beater Blade for a Hammer Mill.
Claims use since Feb. 13, 1952.

Ser. No. 628,076. Hans G. Zelinka, doing business as Vindobona Importing Co., New York, N. Y. Filed Apr. 14, 1952.

SSS

For Trowels.
Claims use since May 11, 1949.

Ser. No. 630,134. The International Silver Company, Meriden, Conn. Filed May 23, 1952.

MERCURY

For Stainless Steel Flatware—Namely, Knives, Forks, and Spoons for Table Use.
Claims use since on or about May 7, 1952.

Ser. No. 630,906. Outboard, Marine & Manufacturing Company, Waukegan, Ill. Filed June 7, 1952. (Sec. 2f.)

LIGHTWIN

For Outboard Motors and Parts.
Claims use since Jan. 7, 1931.

Ser. No. 633,108. Infilco Incorporated, Tucson, Ariz. Filed July 26, 1952.

COLAFLEX

For Gas Diffusers for Submergedly Diffusing Gas Into Liquid.
Claims use since Mar. 17, 1952.

Ser. No. 633,970. Curtis Manufacturing Company, St. Louis, Mo. Filed Aug. 15, 1952. (Sec. 2f.)

CURTIS

Applicant claims ownership of Registration No. 281,283.
For Automobile Washing Outfits of the Hydraulic Type, Rotating Automobile Lifts of the Roll-On and Free-Wheel Types, Single Post and Two Post Automobile Lifts, Automobile Front End Lifts, Spray Guns, Single I-Beam Trolleys; Air-Compressor Outfits or Units Which Include Air Tanks, Hoists Operated by Compressed Air, Compressed Air Tanks, Circular Saws, Air Compressors, and Clutch Discs.
Claims use since 1893.

Ser. No. 634,600. Mayrath Machinery Co., Inc., Dodge City, Kans. Filed Aug. 28, 1952. (Sec. 2f.)

MAYRATH

For Mobile Power-Operated Grain Loaders.
Claims use since on or about December 1945.

Ser. No. 635,070. Textile Engineering Corporation, Whitman, Mass. Filed Sept. 9, 1952.

CLEANALIGN

For Textile Spinning Machinery.
Claims use since July 18, 1952.

Ser. No. 637,095. The Transmission & Gear Co., Dearborn, Mich. Filed Oct. 23, 1952.



The word "Load" is disclaimed apart from the mark as shown.
For Concrete Mixers.
Claims use since at least as early as July 1952 as shown; and since December 1951, as to "Transo Load Champion."

Ser. No. 638,153. National Rubber Machinery Company, Akron, Ohio. Filed Nov. 15, 1952.

AUTOFORM

For Vulcanizing Machines for Tires.
Claims use since Sept. 1, 1950.

Ser. No. 638,155. Perfect Circle Corporation, Hagerstown, Ind. Filed Nov. 15, 1952. (Sec. 2f.)

NURLIZER

Applicant claims ownership of Registrations Nos. 532,629, 532,630, and others.
For Machines for Providing an Interrupted Peripheral Surface on Cylindrical Objects.
Claims use since Mar. 12, 1947.

Ser. No. 638,501. Superior Sewing Machine and Supply Corp., New York, N. Y. Filed Nov. 22, 1952.

Dyno

For Tailor and Household Shears, Folding Shears, Thread Clipping Shears, Pliers, and Cutting Tools for Cutting Notches in Patterns.
Claims use since Nov. 3, 1952.

Ser. No. 639,011. Borg-Warner Corporation, Chicago, Ill. Filed Dec. 5, 1952.

DURA-NOTCH

No exclusive claim is made to the word "Notch" apart from the combination shown.
For Earth Cutting and Pulverizing Discs for Plows, Harrows, and Like Agricultural Implements and Machines.
Claims use since on or about Oct. 27, 1952.

Ser. No. 639,014. Camillus Cutlery Company, Camillus, N. Y. Filed Dec. 5, 1952.

JET SPACE KNIFE

No claim is made to the exclusive use of the word "Knife" apart from the mark as shown.
For Pocket Knives.
Claims use since Nov. 21, 1952.

Ser. No. 641,587. John Waldron Corporation, Highland Park, N. J. Filed Jan. 30, 1953.

TRAILBLAZER

For Web Fed, Rotary, Offset Printing Presses.
Claims use since on or about Dec. 31, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 629,063. Southern Mills, Inc., Atlanta, Ga. Filed May 1, 1952.



COTTONBLOSSOM

The pictorial representation in applicant's mark is merely fanciful. Applicant claims ownership of Registrations Nos. 403,601 and 405,568.
For Cotton Fabric Cut to Size as Used on Ironer Rolls, Cotton Knitted Padding Cut to Size for Flat Work Ironer Rolls, Press Covers Made of Sateen or Similar Material Cut to Size as Used on Garment Presses and Laundry Presses, Press Pads Made of Cotton Padding Cut to Size and Used on Garment Presses and Laundry Presses, and Picot Tape in Cut Sizes as Used on Flat Work Ironers To Guide the Work Through the Rolls, Laundry Nets, and Woven Cotton Feed Ribbons Cut to Size To Feed Flat Work to Flat Work Ironers.
Claims use since on or about January 1930.

Ser. No. 633,814. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Filed June 13, 1952.

Goliath

Applicant claims ownership of German Registration No. 610,142, dated Aug. 6, 1951.
For Laundry Appliances—Namely, Washing Machines, and Machines and Appliances for Cleaning Textiles and Other Materials by Means of Organic Solvents.

CLASS 25

LOCKS AND SAFES

Ser. No. 625,105. Hollymade Hardware Mfg. Co., Los Angeles, Calif. Filed Feb. 18, 1952.

BOR-N-SET

The word "Set" is disclaimed apart from the mark as shown.
For Builders' Hardware—Namely, Locks, Latches, and Locking Bolts.
Claims use since Jan. 15, 1952.

Ser. No. 639,747. Diebold, Incorporated, Canton, Ohio. Filed Dec. 19, 1952. (Sec. 2f.)

Rekordesk

Applicant claims ownership of Registration No. 304,414.
For Safes and Metal Structures in the Nature of Safes and Parts Thereof.
Claims use since Feb. 5, 1932.

Ser. No. 641,675. Earle Hardware Manufacturing Company, Reading, Pa. Filed Feb. 3, 1953. (Sec. 2f.)

Earle

Applicant claims ownership of Registration No. 142,992.
For Night Latches, Locks, and Parts Thereof.
Claims use since 1913.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 619,483. David White Company, Milwaukee, Wis. Filed Oct. 1, 1951.

STEREO Realist

No claim is made to the word "Stero" apart from the mark shown. Applicant claims ownership of Registration No. 412,242.
For Photographic Equipment and Accessories for Stereoscopic Cameras, as Follows: Lenses, Lens Shades, Diverging and Converging Supplementary Lenses, Apparatus for Attaching a Stereoscopic Camera to a Stereoscopic Microscope, Flash Synchronizers, Flash Shields, Light Filters, Filter Kits Containing Assorted Light Filters, Filter Mounts, Filter Cases, Apparatus for Supporting Identifying Indicia Before a Camera for Photographing the Same on Film, Cable Releases, Exposure Meters, Exposure Calculators, View Finders, Camera Backs for Enlarging the Film Compartment, Camera Supports (Tripods and Swivel Heads), Camera Cases and Combination Camera and Accessory Bags; Photographic Equipment and Accessories for Stereoscopic Projectors, as Follows: Fading Devices, Lenses, Slide Holders, Automatic and Manual Slide Changers, Screens, Viewing Glasses, Stands and Cases; Stereoscopic Slide Mounts; and Slide Mounting Equipment—Namely, Film Cutters, Compartmented Sorting Trays, Aligning Jigs, Thermostatically Controlled Electric Heating Units and Irons Adapted To Be Heated Thereby and Used To Seal Film Transparencies to Slide Mounts.
Claims use since Mar. 9, 1944.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 627,262. Hamilton Watch Company, Lancaster, Pa. Filed Mar. 29, 1952.



For Watches.
Claims use since Sept. 1, 1937.

Ser. No. 640,618. Fink's Jewelers, Inc., Roanoke, Va. Filed Jan. 12, 1953.

FINCRAFT

For Watches.
Claims use since Sept. 15, 1951.

Ser. No. 640,977. Allen V. Tornek, doing business as Allen V. Tornek Co., New York, N. Y. Filed Jan. 19, 1953.

Resevoil

For Watch Bearing Plates Carrying Jewel Bearings.
Claims use since October 1949.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 619,485. Comptoir de l'Industrie Cotonniere Société à Responsabilité Limitée, Paris, France. Filed Sept. 11, 1951.

CHRISTIAN DIOR

"Christian Dior" is the name of a living person whose consent to register is of record. Applicant claims ownership of French Registration No. 360,998, dated Aug. 14, 1946, and United States Registration No. 519,367.
For Jewelry for Personal Wear, Not Including Watches—Namely, Trinkets, Necklaces, Bracelets, Finger Rings, Earrings, Brooches, and Ornamental Clips Made in Whole of, in Part of, or Plated With Precious Metals.

Ser. No. 625,106. Jablow Manufacturing Co., Inc., New York, N. Y. Filed Feb. 18, 1952.

JABCo

For Lockets, Neck Chains, Crosses for Personal Wear, Anklets, Key Chains, Waldemars, Identification Bracelets, and Baby Bracelets.
Claims use since Oct. 1, 1943.

Ser. No. 626,253. Lasko Strap Company, New York, N. Y. Filed Mar. 11, 1952. (Sec. 2f.)

NEET

Applicant claims ownership of Registration No. 218,349.
For Wrist-Watch Straps.
Claims use since on or about Jan. 1, 1925.

Ser. No. 629,099. Flint Company, Kansas City, Mo. Filed May 2, 1952.



For Articles of Jewelry Each Comprising a Pendant Including a Transparent Case Containing a Mustard Seed, the Jewelry Being of a Religious Symbolic Character.
Claims use since Nov. 28, 1951.

Ser. No. 633,527. Ferdinand H. Block, doing business as Pfister Jewelry Company, New Iberia, La. Filed Aug. 6, 1952.

EVANGELINE

For Rosaries, Crucifixes, and Religious Medals and Chains, Both Made of Precious Metals.
Claims use since March 1920.

Ser. No. 637,584. The Gruen Watch Company, Cincinnati, Ohio. Filed Nov. 4, 1952.

GUILDCRAFT

Applicant claims ownership of Registrations Nos. 132,157, 347,164, and 543,080.
For Watch Bracelets.
Claims use since Sept. 5, 1952.

Ser. No. 639,646. Jacoby-Bender, Inc., New York, N. Y. Filed Dec. 17, 1952.

VIRGINIA LEE

The name "Virginia Lee" is fictitious.
For Watch Bracelets Sold Separately From the Watches.
Claims use since Jan. 7, 1952.

Ser. No. 641,696. Singer-Cohen Inc., New York, N. Y. Filed Feb. 3, 1953.

SINCO

For Brooches.
Claims use since January 1936.

Ser. No. 641,873. Towle Manufacturing Company, Newburyport, Mass. Filed Feb. 6, 1953.

PRIMA DONNA

For Sterling Silver and Sterling Silver Mounted Flatware and Table Cutlery.
Claims use since Jan. 15, 1953.

Ser. No. 641,874. Towle Manufacturing Company, Newburyport, Mass. Filed Feb. 6, 1953.

SILVER SLIPPER

No registration rights are herein claimed in respect to the word "Silver" apart from the mark in its entirety.
For Sterling Silver and Sterling Silver Mounted Flatware and Table Cutlery.
Claims use since Jan. [illegible], 1953.

Ser. No. 642,870. Century Metalcraft Corporation, Los Angeles, Calif. Filed Feb. 27, 1953.

CENTURY

For Sterling Silver Flatware.
Claims use since Nov. 10, 1952.

Ser. No. 642,885. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Filed Feb. 27, 1953.

DOUBLE FEATURE

For Watch Bands.
Claims use since Jan. 8, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 639,687. Baltimore Brushes, Inc., Baltimore, Md. Filed Dec. 18, 1952.

BALTEX

For Paint and Varnish Brushes.
Claims use since on or about July 21, 1952.

Ser. No. 641,775. General Jobbing Co. Inc., Oklahoma City, Okla. Filed Feb. 5, 1953.



The human figure is fanciful.
For Wiping Cloths for Soiled, Dirty, Greasy or Wet Surfaces.
Claims use since Jan. 15, 1953.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 638,870. Quaker China of Salem, Inc., Salem, Ohio. Filed Dec. 2, 1952.

Quaker Girl

The portrait is fanciful.
For Semi-Vitreous China—Namely, Baby Bowls, Baby Plates, Bakers, Beer Steins, Bowls, Butter Dishes, Plates, Casseroles, Coupes, Cups, Saucers, Coffee Pots, Tea Pots, Bouillon Cups, Sugar Bowls, Cream Pitchers, Oval Dishes, Fruit Dishes, Oatmeal Dishes, Nappies, Sauce Boats, Salt and Pepper Shakers, Pitchers, Chop Plates, Mugs, and Service Plates.
Claims use since Mar. 17, 1952.

Ser. No. 639,235. Noritake Co., Inc., New York, N. Y. Filed Dec. 9, 1952.



Applicant claims ownership of Registrations Nos. 530,825 and 531,660.
For Dinnerware and Tableware Made of China.
Claims use since Oct. 20, 1952.

Ser. No. 639,236. Noritake Co., Inc., New York, N. Y. Filed Dec. 9, 1952.



Applicant claims ownership of Registrations Nos. 530,825 and 531,660.
For Dinnerware and Tableware Made of China.
Claims use since Oct. 20, 1952.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 628,014. Howard O. Trerice, doing business as H. O. Trerice Co., Detroit, Mich. Filed Apr. 12, 1952. (Sec. 2f.)

TRERICE

Applicant claims ownership of Registrations Nos. 342,208, 342,064, and others.
For Filters for Filtering Compressed Air, Steam, and Liquids; Filter Casings; and Stone Filters for Water, Steam, Air, and Gas.
Claims use since Jan. 1, 1938.

Ser. No. 635,370. The Marley Company, Inc., Kansas City, Mo. Filed Sept. 17, 1952.

SPIRAFIN

For Liquid Cooling Towers and Parts Thereof.
Claims use since Aug. 21, 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 596,018. Exportlists Försäljnings Aktiebolag, Nykoping, Sweden. Filed Apr. 20, 1950.

OTA-

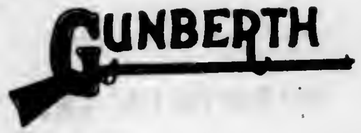
Applicant claims ownership of Swedish Registration No. 52,360, dated Aug. 26, 1939.
For Curtain Poles, Cornices for Interior Decorations, Frames for Paintings and Photographies, Mirrors Used in Connection With Furniture, Wall Mirrors, Hand Mirrors, and Mirror Frames.

Ser. No. 623,668. Mullins Manufacturing Corporation, Salem and Warren, Ohio. Filed Jan. 16, 1952.



Applicant claims ownership of Registrations Nos. 440,536 and 440,537.
For Kitchen Cabinets—Namely, Undersink, Dishwasher, Wall, Base, Linen, Broom, Corner, Revolving Shelf, and Condiment Cabinets, What-Not Shelves, Standing Shelves, and Cabinet Counter Tops.
Claims use since Nov. 26, 1945.

Ser. No. 630,579. Coladonato Bros., Hazleton, Pa. Filed June 2, 1952.



For Racks for Rifles.
Claims use since Apr. 16, 1952.

Ser. No. 630,860. Sturgis Posture Chair Company, Sturgis, Mich. Filed June 6, 1952. (Sec. 2f.)

Sturgis

For Chairs.
Claims use since Oct. 1, 1940.

Ser. No. 632,160. Meyer Greitzer, doing business as Edgeform Products Co., Los Angeles, Calif. Filed July 5, 1952.

EDGEFORM

For Chairs, Tables, Buffets, Beds, Desks, and Kitchen Cabinets.
Claims use since June 1, 1951.

Ser. No. 637,029. Art Steel Sales Corporation, New York, N. Y. Filed Oct. 23, 1952.

Moldmaster

Applicant claims ownership of Registration No. 422,836.
For Letter Trays; Hinged Cover Card Cabinets; Filing Cabinets; Roll Top Stationery Cabinets; Made of Molded Plastic or Plastic and Metal, or Plastic, Metal, and Paper.
Claims use since Feb. 1, 1947.

Ser. No. 638,102. The Reflectone Corporation, Stamford, Conn. Filed Nov. 14, 1952.

ROTO FOLD

The word "Fold" is disclaimed apart from the mark.
For Furniture—Namely, Costumers.
Claims use since June 20, 1950.

Ser. No. 638,600. New York Feather Co., Inc., New York and Brooklyn, N. Y. Filed Nov. 25, 1952.

Early Bird

For Foam Rubber Bed Pillows, Cushions, Throw Pillows, and Foam Rubber Mattress Pads.
Claims use since May 23, 1952.

Ser. No. 639,721. Dallas Smith Corporation, Indianapolis, Ind. Filed Dec. 18, 1952.

Little Smitty

The word "Little" is disclaimed apart from the mark as shown.
For Cardboard Chairs.
Claims use since Nov. 3, 1952.

CLASS 33

GLASSWARE

Ser. No. 577,472. Becton Dickinson and Company, Rutherford and East Rutherford, N. J. Filed Apr. 21, 1949.

VACUTAINER

Applicant claims ownership of Registration No. 424,957.
For Glass Specimen Tube.
Claims use since Sept. 25, 1944.

Ser. No. 630,367. "Minex" Centrala Eksportowo-Importowa Wytworow Przemysiu Mineralnego Przedsiebiorstwo Panstwowe, Warsaw, Poland. Filed May 27, 1952.

HUTA JOZEFINA

Priority is claimed under Sec. 44(d). Polish application filed Mar. 6, 1952; Registration No. 35,714, dated Apr. 23, 1952. The words "Huta Jozefina" are Polish and are literally translated to mean "Glassworks Josephine." The descriptive word "Huta" is hereby disclaimed apart from the mark as shown in the drawing.
For Crystal Table Ware.

Ser. No. 637,177. Futura Corporation, Chicago, Ill. Filed Oct. 25, 1952.

Tall Tale'rs

For Glassware—Namely, Beverage Glasses.
Claims use since Sept. 25, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 603,263. Nathan Straus-Duparquet, Inc., New York, N. Y. Filed Sept. 7, 1950. (Sec. 2f.)

DUPARQUET

Applicant claims ownership of Registration No. 163,495.
For Cooking Equipment—Namely, Ranges, Grills, Griddles, Broilers, Fryers, Steam Tables, Bain Maries, and Steam Pressure Cookers, Having Their Own Sources of Heat.
Claims use since 1921.

Ser. No. 626,420. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 13, 1952.

UNITROL
JUNIOR

Applicant claims ownership of Registration No. 533,694.
For Combined Pilot and Main Burner Gas Valves.
Claims use since Apr. 29, 1949.

Ser. No. 626,836. Victrylite Candle Company, Oshkosh, Wis. Filed Mar. 21, 1952.

Cocktail

For Candlesticks and Candle Lamps.
Claims use since September 1940.

Ser. No. 631,512. Weather Products Corporation, Providence and Warwick, R. I. Filed June 20, 1952.



For De-Humidifiers for Individual Rooms.
Claims use since May 6, 1948.

Ser. No. 633,076. Roberts Manufacturing Co., Cleburne, Tex. Filed July 25, 1952.

Ranger

For Electrically Operated Oscillating Evsporative Room Cooler.
Claims use since May 15, 1948.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 582,287. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")



The name "Goodrich" is the name of one of the founders of applicant's business. Applicant claims ownership of Registrations Nos. 64,996, 65,422, and others.
For Pneumatic Tires, Inner Tubes for Tires, Tire and Tube Repair Materials, Non-Pneumatic Non-Metallic Tires, Machine Belting, Conveyor Belting, Endless Belts, Hose, Tubing, Machinery Packing, Gaskets, and Sealing Rings, All Made in Whole or in Part of Rubber or of Rubbery Resilient Material.
Claims use since about March 1946 on the mark shown; and since not later than 1880 as to "Goodrich."

Ser. No. 616,516. Arthur D. Smithson, doing business under the assumed name of Smithson Cold Storage Door Repair Service, Syracuse, N. Y. Filed July 14, 1951.



For Cold Storage Door Gaskets.
Claims use since Sept. 16, 1940.

Ser. No. 633,748. The Armstrong Rubber Company, West Haven, Conn. Filed Aug. 12, 1952. (Sec. 2f.)

ARMSTRONG

Applicant claims ownership of Registrations Nos. 427,794 and 523,150.
For Pneumatic Tires, Inner Tubes for Pneumatic Tires, and Repair and Treading Materials Therefor—Namely, Rubber Stock, Cord Fabrics, and Gums.
Claims use since on or about Jan. 1, 1917.

Ser. No. 637,084. Quaker Rubber Corporation, Philadelphia, Pa. Filed Oct. 23, 1952.

LAWNLINER

For Lawn Hose.
Claims use since Sept. 2, 1952.

Ser. No. 640,664. Apex Tire & Rubber Co., Pawtucket, R. I. Filed Jan. 13, 1953.

Superlite

For Plastic Garden Hose.
Claims use since May 1, 1952.

Ser. No. 642,952. Henry Crossley (Packings) Limited, Bolton, England. Filed Mar. 2, 1953.



Applicant claims ownership of British Registration No. 381,306, dated Jan. 2, 1918, and United States Registration No. 301,243.
For Fiber Packing for Steam and Hydraulic Purposes.

Ser. No. 644,101. Cooper Tire & Rubber Company, Findlay, Ohio. Filed Mar. 24, 1953.

MILE MASTER

Applicant claims ownership of Registrations Nos. 284,767 and 142,615.
For Truck Tires.
Claims use since Mar. 6, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 627,850. Tin Pan Alley, Inc., New York, N. Y. Filed Apr. 9, 1952.



For Grooved Phonograph Records.
Claims use since Dec. 1, 1951.

Ser. No. 628,069. Traficante, Minneapolis, Minn. Filed Apr. 14, 1952.

Cartiste

For Accordions.
Claims use since Apr. 6, 1948.

Ser. No. 629,525. H. & A. Selmer, Inc., Elkhart, Ind. Filed May 10, 1952.

BROWNIE

For Twirling Batons.
Claims use since July 1949.

Ser. No. 632,324. Rudolf Petrak, Greenwich, Conn. Filed July 9, 1952.



The word "Records" is disclaimed.
For Grooved Phonograph Records.
Claims use since June 26, 1952.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 633,896. The J. R. Watkins Company, Winona, Minn. Filed Aug. 13, 1952.



The likeness of the man shown on the drawing is fanciful.
For Column Heading Appearing Periodically in Publications.
Claims use since July 1, 1952.

Ser. No. 635,034. Milton Gross, Beverly Hills, Calif. Filed Sept. 9, 1952.

Comic Scribbles

The drawing is lined for the color red.
For Comic Strips in Periodical Publications.
Claims use since in the year 1927.

CLASS 39

CLOTHING

Ser. No. 626,298. J. R. Beaton Company, Inc., New York, N. Y. Filed Mar. 12, 1952.

Vera Smart

The name "Vera Smart" is not the name of a particular individual and is fanciful.
For Women's Full-Fashioned Hosiery.
Claims use since Feb. 6, 1931.

Ser. No. 630,086. Norman J. Lawrence, doing business as Lawrence of London, New York, N. Y. Filed May 22, 1952. (Sec. 2f as to "Lawrence of London.")

Lawrence of London

No claim is made to the words "of London" and to the words "Luxury" and "Rainwear." The drawing is lined for red.
For Ladies' Raincoats and Ladies' Coats.
Claims use since Mar. 3, 1952, on the mark as a whole; and since Sept. 1, 1947, as to "Lawrence of London."

Ser. No. 631,579. Rubin-Meltzer Company, New York, N. Y. Filed June 21, 1952.

KNEEWAY

For Cotton Knit Underwear—Namely, Men's and Boys' Pants and Shorts.
Claims use since Mar. 1, 1952.

Ser. No. 631,615. Her Majesty Underwear Company, Leola, Pa., and New York, N. Y. Filed June 23, 1952.

her majesty

Applicant claims ownership of Registration No. 222,963.
For Women's Underwear, Nightgowns, and Pajamas; Slips, Half-Slips, and Petticoats for Children, Pre-Teens, and Teens, and Panties for Children.
Claims use since in or about April 1905.

Ser. No. 632,091. Marcus G. Kelly, San Diego, Calif. Filed July 2, 1952.

Preggies

For Maternity Articles of Apparel—Namely, Panties Having Hose Supporter Means.
Claims use since June 10, 1952.

Ser. No. 634,048. Lubin-Weeker Co., Inc., New York, N. Y. Filed Aug. 16, 1952.

3 Alarm Red

No claim is made to the color designation "Red" apart from the mark shown on the drawing.
For Ladies' and Men's Pajamas.
Claims use since Aug. 14, 1951.

Ser. No. 634,444. Beautee-Fit Company, Los Angeles, Calif. Filed Aug. 26, 1952.

"Magic Lift"

The word "Lift" is disclaimed when used apart from the mark shown in the drawing.
For Brassières, Foundation Garments, Girdles, and Garter Belts.
Claims use since July 3, 1943.

Ser. No. 634,448. Joseph Black & Sons Company, York, Pa. Filed Aug. 26, 1952.

Bachelors' Friend

Applicant claims ownership of Registration No. 73,207.
For Men's and Boys' Stockings.
Claims use since Sept. 8, 1908.

Ser. No. 634,667. Troxler-Lynch Hosiery Company, Springfield, Ill. Filed Aug. 29, 1952.

Ra'trox



No claim is made to the specific representation of a pair of hosiery-clad legs, apart from the mark shown in the drawing.
For Ladies' and Misses' Hosiery.
Claims use since Oct. 1, 1951.

Ser. No. 635,085. Katie R. Gaubeart, York, Pa. Filed Sept. 10, 1952.

Misty Queen

No claim is made for the word "Misty" apart from the mark shown.
For Ladies' Hosiery.
Claims use since July 29, 1952.

Ser. No. 635,953. Collins Hosiery Mill, Inc., East Bend, N. C. Filed Sept. 30, 1952.

TAFFY-TUFT

The word "Tuft" is disclaimed apart from the mark as shown.
For Bobby Socks.
Claims use since Apr. 5, 1952.

Ser. No. 636,400. Truitt Brothers, Inc., Belfast, Maine. Filed Oct. 23, 1952.

TRU FLEX

No exclusive claim is made to the word "Flex" apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 196,351.
For Boys' and Men's shoes.
Claims used since Mar. 1, 1923.

Ser. No. 636,417. P. H. Hanes Knitting Company, Winston-Salem, N. C. Filed Oct. 9, 1952.

SHRINK-O-TROL

No registration rights are claimed for the word "Shrink" apart from the mark as shown.
For Underwear for Men, Women, and Children.
Claims use since Sept. 17, 1952.

Ser. No. 636,673. Alta Products Corporation, New York, N. Y. Filed Oct. 16, 1952.

Altee

For Slippers and Bootees for Men, Women, and Children.
Claims use since Jan. 2, 1952.

Ser. No. 636,750. The Stronse, Adler Company, New Haven, Conn. Filed Oct. 16, 1952.

Young SMOOTHIE

Applicant claims ownership of Registration No. 305,541.
For Women's Girdles, Panty Girdles, and Combinations or One Piece Foundation Garments.
Claims use since Oct. 15, 1951.

Ser. No. 636,852. Julius Kayser & Co., New York, N. Y. Filed Oct. 18, 1952.

SHADOFILM

For Hosiery for Women.
Claims use since Sept. 23, 1952.

Ser. No. 637,242. Wm. B. Coleman Co., Incorporated, New Orleans, La. Filed Oct. 27, 1952.

The CCC

Applicant claims ownership of Registration No. 100,560.
For Hosiery for Men and Women.
Claims use since Jan. 1, 1911.

Ser. No. 637,514. Expectation Shops, San Francisco, Calif. Filed Oct. 7, 1952.

Expectation Shops

The word "Shops" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 334,427.
For Maternity Garments—Namely, Dresses, Suits, Jackets, Skirts, Blouses, Slacks, Slips, Panties, Brassières, Girdles, Garter Belts, Nightgowns, Bed Jackets, Pedal Pushers, Halters, Bathing Suits, Robes, and Coats.
Claims use since Aug. 28, 1946.

Ser. No. 637,759. David Crystal, Inc., New York, N. Y. Filed Nov. 7, 1952.

STILETTO

For Ladies' and Misses' Dresses, Skirts, Coats, Dress and Jacket Ensembles, Suits, Blouses, Slacks, Coveralls, and Jumpers.
Claims use since Oct. 1, 1952.

Ser. No. 638,357. Martin Fishkop & Co., St. Louis, Mo. Filed Nov. 20, 1952.

Douglas Marc

The name "Douglas Marc" is fanciful.
For Ladies' and Misses' Skirts.
Claims use since May 12, 1952.

Ser. No. 639,339. Phoenix Hosiery Company, Milwaukee, Wis. Filed Dec. 11, 1952.

BEAUTY MARKS

For Women's Hosiery.
Claims use since June 26, 1952.

Ser. No. 640,097. S. Augstein & Co., Inc., College Point, N. Y. Filed Dec. 29, 1952.

Sacony

Applicant claims ownership of Registrations Nos. 390,794, 423,744, and others.
For Corsets, Girdles, Panty Girdles, Combination Brassières and Girdles, Garter Belts, Brassières, Bandeaux, and Women's Other Foundation Garments.
Claims use since on or about Sept. 1, 1952.

Ser. No. 640,633. Hollywood-Maxwell Company, Los Angeles, Calif. Filed Jan. 12, 1953.

3/4 TIME

For Brassières.
Claims use since Dec. 10, 1952.

Ser. No. 640,672. Davidow, Inc. Sportswear, New York, N. Y. Filed Jan. 13, 1953.

DAVAHNA

For Ladies', and Misses' Dresses, Dress Ensembles, Suits, Jackets, Skirts, and Coats.
Claim use since Oct. 6, 1952.

Ser. No. 640,673. Davidow, Inc. Sportswear, New York, N. Y. Filed Jan. 13, 1953.

DAVANTE

For Ladies' and Misses' Dresses, Dress Ensembles, Suits, Jackets, Skirts, and Coats.
Claim use since Oct. 6, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 630,165. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 23, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.

For Hand Sewing Needles; Needle Cases; Needle Threaders; Skirtmakers; Buttons, Buckles and Clasps; and Stocking, Darning, and Embroidery Hoops.

Claims use since 1880.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 639,522. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Umbrellas, Parasols, and Canes.

Claims use since 1932.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 626,208. Joseph's, Portland, Oreg. Filed Mar. 10, 1952.

Joseph's

For Window and Shower Curtains, Ruffing for Rodless Curtains, and Tablecloths, All Made and Manufactured From Plastic Film, Together With Plastic Film Sold by the Yard and in the Roll.

Claims use since Jan. 16, 1946.

Ser. No. 629,060. The Scholl Mfg. Co., Inc., Chicago, Ill. Filed May 1, 1952.

SKINTAC

For Textile Fabrics, Impregnated With Rubber, or Rubber-Like Material, for Use in Making Non-Slip Gloves, Pads, Industrial Textile Clothing, and the Like.

Claims use since Jan. 12, 1952.

Ser. No. 630,043. Union Liniere d'Exportation, S. A. R. L., Paris, Seine, France. Filed May 21, 1952.

UNILIN

Priority under Sec. 44(d). French application filed Mar. 31, 1952. Reg. No. 419,076 dated Mar. 31, 1952.

For Linen Fabrics for Use in Men's, Women's, and Children's Clothing, Housefurnishings, Such as Tablecloths, Napkins, Towels, and Draperies.

Ser. No. 632,236. C. R. Anthony Company, Oklahoma City, Okla. Filed July 8, 1952.

NYLO-FIL

The word "Fil" is disclaimed apart from the mark as shown.

For Woven Fabric of Cotton and Nylon.

Claims use since June 1, 1952.

Ser. No. 634,595. The House of Swansdown, Inc., New York, N. Y. Filed Aug. 28, 1952.

SWAN-FLUFF

Apart from the combination "Swan-Fluff," the word "Fluff" is disclaimed. Applicant claims ownership of Registration No. 350,271.

For Woolen and Worsted Fabrics in the Piece.

Claims use since Aug. 6, 1951.

Ser. No. 634,952. Pola Stout Inc., New York, N. Y. Filed Sept. 6, 1952.

POLA STOUT DESIGNS
POLA STOUT COLORS

The words "Pola Stout" represent the given and surname of the president of the applicant. The words "Designs" and "Colors" and the representation of the fabric are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 388,261.

For Woolen and Worsted Fabrics.

Claims use since Apr. 21, 1948.

Ser. No. 635,134. James Ives & Co. Limited, Yeadon, Near Leeds, England. Filed Sept. 11, 1952.

IVESTAR

Applicant claims ownership of British Registration No. 706,744, dated Apr. 29, 1952.

For Textile Piece Goods Made of 100% Woolen Fabrics and/or Blended Fabrics Containing Nylon and/or Cotton and/or Rayon.

Ser. No. 635,183. The House of Swansdown, Inc., New York, N. Y. Filed Sept. 12, 1952.

SWANFEATHER

Applicant claims ownership of Registration No. 350,271.

For Woolen and Worsted Fabrics in the Piece.

Claims use since June 4, 1951.

Ser. No. 638,087. A. D. Juilliard & Co., Inc., New York, N. Y. Filed Nov. 14, 1952.

ALORA

Applicant claims ownership of Registration No. 233,498.

For Woolen Piece Goods.

Claims use since Mar. 18, 1952.

Ser. No. 638,478. C. M. De Land, New York, N. Y. Filed Nov. 22, 1952.

MILORA

For Textile Fabrics of Wool and Synthetic Fibers, in the Piece.

Claims use since on or about Sept. 23, 1952.

Ser. No. 638,899. Cone Mills Inc., New York, N. Y. Filed Nov. 28, 1952.

Cone

Applicant claims ownership of Registrations Nos. 201,017, 334,013, and Others.

For Fabrics in the Piece of Cotton and Synthetic Fibres.

Claims use since Oct. 9, 1952.

Ser. No. 639,265. Cone Mills Inc., New York, N. Y. Filed Dec. 10, 1952.

Cone

Applicant claims ownership of Registrations Nos. 291,017, 334,013, and others.

For Fabrics in the Piece of Cotton and Synthetic Fibres.

Claims use since Nov. 14, 1952.

Ser. No. 639,312. Cabin Crafts, Inc., Dalton, Ga. Filed Dec. 11, 1952. (Sec. 2f.)

NEEDLETUFT

Applicant claims ownership of Registration No. 374,224.

For Bath Rugs and Lid Covers, Bedspreads, and Textile Carpets and Rugs.

Claims use since July 25, 1939.

Ser. No. 639,346. Tanbro Fabrics Corp., New York, N. Y. Filed Dec. 11, 1952.

Tissueshan

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibers.

Claims use since Aug. 6, 1951.

Ser. No. 640,149. Ellison & Spring, Inc., New York, N. Y. Filed Dec. 30, 1952.

tempo

Applicant claims ownership of Registration No. 553,602.

For Woven Table Cloths and Woven Table Napkins.

Claims use since Dec. 19, 1949.

Ser. No. 640,253. Barbet Mills, Inc., Lexington, N. C. Filed Jan. 2, 1953.

COTOLON

For Knitted Fabrics Made of Cotton, Wool, Silk, and Synthetic Fibers.

Claims use since Oct. 15, 1952.

Ser. No. 640,311. Stern Brothers, New York, N. Y. Filed Jan. 2, 1953.

slumber-sta

Applicant claims ownership of Registration No. 547,585.

For Babies' Crib Blankets.

Claims use since Dec. 1, 1952.

Ser. No. 640,397. The Harodite Finishing Company, Inc., North Dighton, Mass. Filed Jan. 6, 1953.

DOMETEEN

For Textile Piece Goods Made of Cotton, Nylon, Rayon, Silk, and Wool.

Claims use since Mar. 23, 1950.

CLASS 43

THREAD AND YARN

Ser. No. 640,591. Bernhard Ulmann Co. Inc., Long Island City, N. Y. Filed Jan. 9, 1953. (Sec. 2f.)

STANDARD

Applicant claims ownership of Registration No. 332,068.

For Art Needlework Yarns.

Claims use since 1929.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 582,289. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")

The name "Goodrich" is the name of one of the founders of applicant's business. Applicant claims ownership of Registrations Nos. 64,996, 65,422, and others.

For Water Bottles, Fountain Syringes, Hospital Sheeting, Hospital Crib Sheets, Ice Bags, Ice Caps, Ice Helmets, Sinus Masks, Throat Bags, Surgeon's Gloves, Bulb Syringes, Catheters, Intravenous Tubing, Drainage Tubing, and Urinals, All Made in Whole or in Part of Rubber or of Rubbery Resilient Material.

Claims use since about March 1946 on the mark as shown; and since not later than 1880 as to "Goodrich."

Ser. No. 600,377. Warren E. Faxon, doing business as Midland Dental Company, Chicago, Ill., assignor to Midland Pharmacal Company, New York, N. Y., a partnership. Filed July 8, 1950.

SNUG

Applicant claims ownership of Registration No. 372,412.
For Denture Relining Pads.
Claims use since June 6, 1949.

Ser. No. 619,088. Kidde Manufacturing Co., Inc., Bloomfield, N. J. Filed Sept. 21, 1951.

For Tubal Insufflators; Apparatus for Converting Compressed or Liquefied Carbon Dioxide Into Solid Carbon Dioxide for Therapeutic Purposes Comprising a Source of Compressed or Liquefied Carbon Dioxide, Releasing Means for the Carbon Dioxide and Receiving Means in Fluid Flow Communication With the Source of Carbon Dioxide for Collecting Solidified Carbon Dioxide as It Is Formed Upon Release Thereof; and Solidified Carbon Dioxide Applicators Comprising a Tubular Member and a Plunger Slidable Therein for Dispensing Solid Carbon Dioxide in Pencil Form for the Treatment of Skin Disorders.

Claims use since November 1947.

Ser. No. 619,089. Kidde Manufacturing Co., Inc., Bloomfield, N. J. Filed Sept. 21, 1951.

Kidde

For Tubal Insufflators; Apparatus for Converting Compressed or Liquefied Carbon Dioxide Into Solid Carbon Dioxide for Therapeutic Purposes Comprising a Source of Compressed or Liquefied Carbon Dioxide, Releasing Means for the Carbon Dioxide and Receiving Means in Fluid Flow Communication With the Source of Carbon Dioxide for Collecting Solidified Carbon Dioxide as It Is Formed Upon Release Thereof; and Solidified Carbon Dioxide Applicators Comprising a Tubular Member and a Plunger Slidable Therein for Dispensing Solid Carbon Dioxide in Pencil Form for the Treatment of Skin Disorders.

Claims use since May 1946.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 545,109. Escondido Lemon Association, Escondido, Calif. Filed Dec. 22, 1947. (Sec. 2f.)

AMERICA

For Fresh Citrus Fruit.
Claims use since Sept. 2, 1912.

Ser. No. 550,599. Horn & Hardart Baking Co., Philadelphia, Pa. Filed Feb. 26, 1948. CONCURRENT USE with Reg. No. 89,171, in the area within a radius of 50 miles from City Hall, in the city of Philadelphia, and within a radius of 50 miles from the intersection of 42nd Street and Broadway, New York city, State of New York.

GILT EDGE

For Coffee and Beverage Chocolate.
Claims use since Dec. 22, 1888.

Ser. No. 559,159. Kerr's Butter Scotch, Inc., Jamesburg, N. J. Filed June 14, 1948. (Sec. 2f as to Kerr's.")

The words "Butter Scotch" are disclaimed apart from the mark as shown in the drawing.
For Candy—Namely, Butter Scotch.
Claims use since May 15, 1948, as to the mark shown; and since 1907 as to "Kerr's."

Ser. No. 591,448. Thomas J. Aycock, Jr., doing business under the name and style of Vita Foods, Jacksonville, Fla. Filed Jan. 26, 1950. (Sec. 2f.)

Vita-Food BRAND

For Mayonnaise, Fruit Preserves, and Jelly.
Claims use since December 1932.

Ser. No. 613,814. The Griffith Laboratories, Inc., Chicago, Ill. Filed May 12, 1951.

PEPPERTONE

For Seasoning Composition in Dry Soluble Form Comprising Pepper Extractives Carried on Soluble Edible Crystals Such as Sodium Chloride or Dextrose.
Claims use since Dec. 27, 1949.

Ser. No. 618,294. William H. Hatton, doing business as Country Products, Morgan, Vt. Filed Aug. 31, 1951.

Maple~Honey

The words "Maple Honey" are disclaimed.
For Table Syrup.
Claims use since June 25, 1951.

Ser. No. 633,956. J. Henry Axelson, doing business as Swedish Boy Bakery, Seattle, Wash. Filed Aug. 15, 1952.

SWEDISH BOY

For Bread.
Claims use since on or about Dec. 21, 1950.

Ser. No. 633,957. J. Henry Axelson, doing business as Swedish Boy Bakery, Seattle, Wash. Filed Aug. 15, 1952.

The representation of the boy is fanciful.
For Bread.
Claims use since on or about Dec. 21, 1950.

Ser. No. 634,638. Salomon Frenk, doing business as Firma D. van Creveld, Rotterdam, Netherlands. Filed Aug. 29, 1952.

Flying Dutchman

For Canned Cooked Ham.
Claims use since before June 1937; and since June 1, 1937, in commerce between Holland and the United States.

Ser. No. 635,766. Sherman K. Hardy, doing business as Hardy Herbs, Lexington, Mass. Filed Sept. 25, 1952.

HADJIMA

The trade-mark shown in the accompanying drawing is an Albanian word which literally translated means "Possession of the King."
For Fresh Onions.
Claims use since Sept. 21, 1949.

Ser. No. 635,872. Clinton Foods Inc., New York, N. Y. Filed Sept. 27, 1952.

MOR-VAL

Applicant claims ownership of Registration No. 422,232.
For Quick Frozen Concentrated Orange Juice.
Claims use since Sept. 16, 1952.

Ser. No. 636,602. Pelahatchie Poultry Company, Pelahatchie, Miss. Filed Oct. 14, 1952.

DAVIS LITTLE MISS FRYER

The word "Fryer" is disclaimed apart from the mark as shown, and without waiving any common law rights the surname "Davis" is also disclaimed.
For Dressed Poultry.
Claims use since Mar. 1, 1952.

Ser. No. 637,768. Fine Products Corporation, Augusta, Ga. Filed Nov. 7, 1952.

Happy-Go-Lucky

For Candy.
Claims use since Sept. 8, 1952.

Ser. No. 638,005. Marshall Mill & Elevator Company, Marshall, Tex. Filed Nov. 13, 1952.



For Feed for Livestock and Poultry, and Dog Food in Dry Form Sold in Bags.
Claims use since Jan. 2, 1930.

Ser. No. 639,625. S. Felicione & Sons Fish Co., Incorporated, Tampa, Fla. Filed Dec. 17, 1952. (Sec. 2f.)

Gulf Taste

For Frozen Shrimp and Frozen Snapper Fingers.
Claims use since Oct. 1, 1944.

Ser. No. 642,994. Ramirez & Feraud Chili Co., Ventura, Calif. Filed Mar. 2, 1953.

LAS PALMAS

Applicant claims ownership of Registrations Nos. 379,295 and 217,414.
For Canned Roasted and Peeled Green Chili Peppers; Canned Red Chili Sauce; Canned Green Chili Sauce; Canned Beans With Chili Sauce; and Canned Lima Beans With Chili Sauce.
Claims use since Feb. 3, 1922.

Ser. No. 642,997. Schuman-Anderholt Co., Holtville, Calif. Filed Mar. 2, 1953.

Goody BOYS

For Fresh Vegetables.
Claims use since Dec. 19, 1952.

Ser. No. 643,029. Church & Dwight Co. Inc., New York and Syracuse, N. Y. Filed Mar. 3, 1953.



The drawing is lined for shading only. The word "Brand" is disclaimed apart from the mark. Applicant claims ownership of Registrations Nos. 524,846, 515,648, and others.
For Table Salt.
Claims use since Feb. 5, 1953.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 609,485. Charles Lachman Co., Inc., Phoenixville, Pa. Filed Feb. 1, 1951.

Mohawk Foamtred

For Linings and Cushions for Rugs and Carpets.
Claims use since Dec. 26, 1950.

Ser. No. 628,278. Johns-Manville Corporation, New York, N. Y. Filed Apr. 18, 1952.

CIN-CON

For Flat Asbestos-Cement Pallets for Use in Handling Materials and Particularly for Supporting Concrete and Cinder Blocks During Steam Curing in Manufacture.
Claims use since Apr. 3, 1952.

Ser. No. 638,708. The Firestone Tire & Rubber Company, Akron, Ohio. Filed Nov. 28, 1952.

Velón

Applicant claims ownership of Registrations Nos. 441,145, 507,954, and others.
For Material in the Nature of Artificial Leather.
Claims use since on or about Apr. 1, 1946.

Ser. No. 640,953. Modern Sales Company, Los Angeles, Calif. Filed Jan. 19, 1953.

Mr. Twosome

Applicant claims ownership of Registration No. 442,976.
For Packaged Set Containing a Measuring Jigger for Measuring Liquor in a Specific Quantity, and a Combination Ice Pick, Bottle Opener, Seal Breaker, Ice Crusher, Cork Screw, Muddler, and Measuring Jigger.
Claims use since Sept. 2, 1948.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 608,708. Albert Kemp, Boone, N. C. Filed Jan. 12, 1951.



The portrait appearing in the drawing is fanciful. No claim is made to the right to the exclusive use of the words, "Perfection" and "Bleach," except in the setting and relation in which they appear in the drawing and description.
For Hair Bleaching Powder.
Claims use since Dec. 22, 1950.

Ser. No. 614,168. Henry A. Schwager, Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich. Filed May 21, 1951.



The drawing is lined for red. The lining outside the oval represents a portion of the red background of the label but no claim is made to said color.
For Industrial Hand Cream.
Claims use since May 7, 1951.

Ser. No. 619,327. Gilda Audrey Products, Inc., New York, N. Y. Filed Sept. 28, 1951.

kimo

For Cold Wave Solution for the Hair.
Claims use since Aug. 29, 1951.

Ser. No. 622,269. Jules Montenier, Chicago, Ill. Filed Dec. 8, 1951.

Vista

For Preparation for the Treatment of Hair on the Human Head—Namely, Hair Dressing.
Claims use since Apr. 17, 1943.

Ser. No. 625,912. Jeanne Liebenguth, doing business as Jeanne Noël, Grasse, France, and New York, N. Y. Filed Mar. 4, 1952.

Jeanne Noël

For Perfumes.
Claims use since Sept. 5, 1949.

Ser. No. 629,246. Lucky Hand Company, Atlanta, Ga. Filed May 6, 1952.



For Perfumed Bath Water and Bath Salts; Body Deodorants; Dusting Powders; Face Creams, Lotions, and Powders; Hair Greases and Oils; Perfumes and Perfumed Oils and Sachet Powders.
Claims use since Feb. 20, 1952.

Ser. No. 629,865. The House for Men, Inc., Chicago, Ill. Filed May 19, 1952.



Applicant claims ownership of Registration No. 349,854.
For Cologne Deodorant Stick.
Claims use since Apr. 28, 1952.

Ser. No. 632,912. Elizabeth Arden Sales Corporation, New York, N. Y. Filed July 23, 1952.

Sun Bloc

Apart from the combination "Sun Bloc," the word "Sun" is disclaimed.
For Sun Lotion.
Claims use since June 16, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 604,545. Potter Drug & Chemical Corporation, Malden, Mass. Filed Oct. 6, 1950.

Cuticura

Applicant claims ownership of Registrations Nos. 49,573, 49,675, and others.
For Shampoo.
Claims use since Apr. 15, 1949.

Ser. No. 614,579. Sharples Chemicals Inc., Philadelphia, Pa. Filed May 31, 1951.

NONIC

For Liquid Non-Ionic Synthetic Detergents.
Claims use since Feb. 11, 1949.

Ser. No. 620,154. Gaymont Laboratories, Inc., Chicago, Ill. Filed Oct. 18, 1951.

YOGOLIN

For Toilet Soap, Liquid and Cream Shampoo, and Cleaning Preparations Adapted for Use in Cleansing the Skin.
Claims use since Aug. 21, 1951.

Ser. No. 621,356. Cooperstown Chemical, Inc., Cooperstown, N. Y. Filed Nov. 17, 1951.

HITSIT

For Detergent Material for Cleansing, Sanitizing, Deodorizing, and Milkstone Removing.
Claims use since Jan. 20, 1951.

Ser. No. 624,547. R. M. Hollingshead Corporation, Camden, N. J. Filed Feb. 5, 1952. (Sec. 2f.)

HO-ZOF

For Degreasing Compound for Cleaning Brake Linings, Wheels, Chassis, Tools, Elevator Shafts, Stainless Steel and Aluminum Aircraft and Railway Cars, Motors and Motor Parts, Engines and Engine Parts, Machinery and Machinery Parts, and Garage and Service Station Driveways, Floors and Walls.
Claims use since November 1938.

Ser. No. 627,784. Lawrence Vannozzi, doing business under the trade name of Wonder Chemical Co., Trenton, N. J. Filed Apr. 8, 1952. CONCURRENT USE With Ser. No. 580,857, for the area comprising the State of New Jersey, Bucks County, Pennsylvania, the State of New York and all other States south of the southerly border of Pennsylvania and the Ohio River and east of the Mississippi River.

BLEACH-OX

Applicant disclaims exclusive right to the use of the word "Bleach" apart from the trade-mark as shown. The drawing is lined for red.
For Compound in the Nature of a Disinfectant, Bleach, Cleanser, and Deodorant.
Claims use since about Jan. 1, 1929.

Ser. No. 628,396. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Apr. 21, 1952.

OA

For Soap.
Claims use since Mar. 11, 1952.

Ser. No. 629,605. Finger Lakes Chemical Company, Inc., Etna, N. Y. Filed May 13, 1952.

DIPHAMUL

For Emulsion Product for Washing Machined Metal Parts.
Claims use since Apr. 1, 1952.

Ser. No. 629,968. Stanley Home Products, Inc., Westfield, Mass. Filed May 20, 1952.

STAN-CARE

For Liquid Surgical Hand Soap.
Claims use since Feb. 26, 1952.

Ser. No. 629,973. Stanley Home Products, Inc., Westfield, Mass. Filed May 20, 1952.

STAN-SERVE

For Liquid Scrubbing Soap.
Claims use since Feb. 26, 1952.

Ser. No. 630,186. Erien Products Company, Burbank, Calif. Filed May 24, 1952.

TONICOOL

For Shampoo.
Claims use since 1939.

Ser. No. 633,268. Nidia Botanical Garden, New York, N. Y. Filed July 30, 1952. (Sec. 2f.)

JABON DE PATCHULI

Exclusive right to the word "Jabon" appearing in the trade-mark is disclaimed apart from the mark as shown.
For Soap.
Claims use since Oct. 18, 1940.

Ser. No. 636,740. Arnold Sampson, doing business under the name and style of E-Z Est Products, Oakland, Calif. Filed Oct. 16, 1952.

Speedip

For Preparation for Removing Tarnish From Brass, Silver, and Copper.
Claims use since Aug. 22, 1952.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 606,370. Robert J. Dean, doing business as Radio-Games Service, New York, N. Y. Filed Nov. 14, 1950.

COURTESY CAR

The word "Car" is disclaimed apart from the mark as shown in the drawing.
For Advertising the Goods and Services of Others by Means of Radio Broadcast Programs Consisting of Personal Interviews With Tourists and Other Travelers and Descriptions of Areas of Tourist Interest Conducted by Means of a Traveling Automobile or Station Wagon Equipped With a Short Wave Radio Transmitter and Transmitting the Live Program to a Regular Commercial Broadcast Station Where It Is Received and Transmitted Over Regular AM Channels.
Claims use since May 30, 1949.

Ser. No. 628,643. National Rural Electric Cooperative Association, Washington, D. C. Filed Apr. 24, 1952.

"Willie Wiredhand"

For Designing, Preparing, and Distributing Advertising and Promotional Materials to Its Member-Systems.
Claims use since Nov. 27, 1951.

Ser. No. 628,644. National Rural Electric Cooperative Association, Washington, D. C. Filed Apr. 24, 1952.



For Designing, Preparing, and Distributing Advertising and Promotional Materials to Its Member-Systems.
Claims use since Nov. 27, 1951.

CLASS 104

COMMUNICATION

Ser. No. 608,000. Hall Broadcasting and Television Company, Inc., doing business as Palmetto Broadcasting System, and/or Palmetto Network, Anderson, S. C. Filed Dec. 22, 1950.

Palmetto Broadcasting System

For Broadcasting of Radio and Television Programs.
Claims use since Nov. 1, 1950.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,774. Face Creams. Bonne Bell, Inc., Cleveland, Ohio.
Filed July 22, 1944, Serial No. 472,499. Published Feb. 15, 1949. Class 51.

ACT OF 1946, PRINCIPAL REGISTER

575,357. Frangible Targets Designed for Projection From Target Throwing Devices. Olin Industries, Inc., East Alton, Ill.
Filed July 5, 1947, Serial No. 527,921. Published Mar. 17, 1953. Class 22.

575,358. Coffee, Tea, Flavoring Extracts for Food Purposes—Namely, Vanilla, and Lemon; Tapioca and Bird Seed. James H. Forbes Tea and Coffee Company, St. Louis, Mo.
Filed Nov. 14, 1947, Serial No. 541,123. Published Mar. 17, 1953. Class 46.

575,359. Coffee, Tea, Flavoring Extracts for Food Purposes—Namely, Vanilla and Lemon; Tapioca and Bird Seed. James H. Forbes Tea and Coffee Company, St. Louis, Mo.
Filed Nov. 14, 1947, Serial No. 541,124. Published Mar. 17, 1953. Class 46.

575,360. Asphaltic Composition Adhesive Cement for Industrial Purposes. The Philip Carey Manufacturing Company, Cincinnati, Ohio.
Filed May 7, 1948, Serial No. 556,475. Published Mar. 24, 1953. Class 5.

575,361. Dehydrated Chicken Noodle Soup Mixes. Continental Foods, Inc., Hoboken, N. J.
Filed July 27, 1948, Serial No. 561,362. Published Mar. 15, 1949. Class 46.

575,362. India-Rubber Latex. Dunlop Rubber Company Limited, Birmingham, England.
Filed Aug. 12, 1948, Serial No. 563,246. Published Mar. 17, 1953. Class 1.

575,363. Ready-Mixed Paint, Varnishes, Wood Stains, Paint Enamels, and Liquid Varnish and Paint Remover. General Paint & Varnish Co., Chicago, Ill.
Filed Apr. 10, 1948, Serial No. 564,013. Published Mar. 24, 1953. Class 16.

575,364. Electrical Signal Generators, Radio Noise Meters, Field Strength Meters, Etc. Ferris Instrument Company, Boonton, N. J.
Filed Nov. 12, 1948, Serial No. 571,389. Published Mar. 17, 1953. Class 26.

575,365. Hand and Power-Operated Dusters and Sprayers for Applying Insecticides, Either Powder or Liquid, or Both, to Vegetation. Naco Manufacturing Co., Huntington Park, Calif., assignor, by mesne assignments, to Root Manufacturing Co., Malta, Ohio, a corporation of Ohio.
Filed Jan. 10, 1949, Serial No. 571,911. Published Feb. 24, 1953. Class 23.

575,366. Sulphur in Powder Form. Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated.
Filed Mar. 26, 1949, Serial No. 576,153. Published Mar. 17, 1953. Class 6.

575,367. Sulphur in Powder Form Used for Agricultural Dusting. Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated.
Filed Mar. 26, 1949, Serial No. 576,155. Published Mar. 17, 1953. Class 6.

575,368. Flour Sulphur. Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated.
Filed Mar. 26, 1949, Serial No. 576,156. Published Mar. 17, 1953. Class 6.

575,369. Sublimed Sulphur. Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated.
Filed Mar. 26, 1949, Serial No. 576,161. Published Mar. 17, 1953. Class 6.

575,370. Garbage Cans. The Bellaire Enamel Company, Bellaire, Ohio.
Filed June 14, 1949, Serial No. 580,393. Published Mar. 10, 1953. Class 2.

575,371. Putty Knives and Scrapers. Hyde Manufacturing Company, Southbridge, Mass.
Filed July 9, 1949, Serial No. 581,717. Published Mar. 24, 1953. Class 23.

575,372. Sisal Fiber Matting for General Use in the Industrial Arts. American Reenforced Paper Company, Attleboro, Mass.
Filed Aug. 18, 1949, Serial No. 583,635. Published Mar. 10, 1953. Class 1.

575,373. Vitaminized Salt. Labmasters Incorporated, Lincoln, Nebr.
Filed Sept. 2, 1949, Serial No. 584,406. Published Mar. 10, 1953. Class 46.

575,374. Non-Oily, Lacquer-Like Protective Coating for Metal and Like Surfaces Used as a Preventative Against Corrosion and Rust. The Thomas Company, Minneapolis, Minn.
Filed Oct. 24, 1949, Serial No. 586,775. Published July 17, 1951. Class 16.

575,375. Non-Oily, Lacquer-Like Protective Coating for Metal and Like Surfaces Used as a Preventative Against Corrosion and Rust. The Thomas Company, Minneapolis, Minn.
Filed Oct. 31, 1949, Serial No. 587,093. Published May 29, 1951. Class 16.

575,376. Shampoo. John H. Breck, Inc., Springfield, Mass.
Filed Dec. 9, 1949, Serial No. 589,067. Published Mar. 17, 1953. Class 52.

575,377. Negligee Shirts, Sport Shirts, Jackets, Pajamas, Lounging Suits, and Lounging Robes. The Shirtcraft Company, Inc., New York, N. Y.
Filed Jan. 26, 1950, Serial No. 591,518. Published Mar. 10, 1953. Class 39.

575,378. Liquid Composition To Remove Obnoxious Odors and Substitute a Pleasing Odor. Tennessee Supply Co., Greeneville, Tenn.
Filed Mar. 10, 1950, Serial No. 593,737. Published Mar. 24, 1953. Class 6.

575,379. Seeds—Namely, Vegetable, Flower, and Grass Seeds. Ferry-Morse Seed Co., Detroit, Mich.
Filed Mar. 23, 1950, Serial No. 594,440. Published Mar. 24, 1953. Class 1.

575,380. Apparatus and Appliances for Vaporizing Liquid Disinfectants and Like Substances Into the Air. Stig Lars Fredrik Eklund, Gothenburg, Sweden.
Filed Apr. 14, 1950, Serial No. 595,714. Published Feb. 24, 1953. Class 23.

575,381. Vacuum Style Coffeemakers. Christian J. Beimuller, Redlands, Calif.
Filed May 8, 1950, Serial No. 597,096. Published Mar. 17, 1953. Class 13.

575,382. Chemical Liquid for Treating Concrete Forms to Prevent Concrete From Sticking to Such Forms After the Concrete Has Solidified. Roger F. Williams, doing business as Williams Distributing Company, Des Moines, Iowa.
Filed May 10, 1950, Serial No. 597,558. Published Mar. 17, 1953. Class 6.

575,383. Silk Bolting Cloth. Etablissements Tripette & Renaud Fils, Societe a Responsabilite Limitee, Paris, France.
Filed May 20, 1950, Serial No. 597,822. Published Mar. 10, 1953. Class 42.

575,384. Windmills and Parts Thereof. Fairbanks, Morse & Co., Chicago, Ill.
Filed June 8, 1950, Serial No. 598,789. Published Mar. 24, 1953. Class 23.

575,385. Dust Separators Comprising a Louvered Surface Over Which Dust Laden Gases Are Passed at a Relatively High Velocity and Not Including Blowers and Fans per se. Aerodyne Corporation, Detroit, Mich.
Filed June 22, 1950, Serial No. 600,245. Published Feb. 24, 1953. Class 23.

575,386. Chemical Preparation for Preserving Cut Flowers. William A. Shoffeitt, doing business as Sta-Products Company, San Lorenzo, Calif.
Filed Sept. 13, 1950, Serial No. 603,502. Published Mar. 17, 1953. Class 6.

575,387. High-Vacuum Pumps for Scientific and Research Purposes. W. Edwards & Company (London) Limited, London, England.
Filed Sept. 29, 1950, Serial No. 604,194. Published Feb. 3, 1953. Class 26.

575,388. Ready Mixed Paints, Varnishes, Lacquers, and Enamels. Body Bros., Inc., Bedford, Ohio.
Filed Oct. 6, 1950, Serial No. 604,517. Published Mar. 10, 1953. Class 16.

575,389. Automatic Gauges Used on Machines and Machine Tools, Etc. Ateliers de Normandie, Paris, France.
Filed Oct. 10, 1950, Serial No. 604,684. Published Feb. 3, 1953. Class 26.

575,390. Preparations for Use as a Medicine or Tonic and for Other Analogous Uses—Namely, Acid Phosphate. Hulman & Company, Terre Haute, Ind.
Filed Oct. 17, 1950, Serial No. 605,034. Published Feb. 17, 1953. Class 18.

575,391. Classified Telephone Directories. The Reuben H. Donnelley Corporation, Chicago, Ill.
Filed Oct. 20, 1950, Serial No. 605,202. Published Mar. 24, 1953. Class 38.

575,392. Diaphanous Photographs. Edward S. Sommers, doing business under the style name of Demi-Tint Industries, Chicago, Ill.
Filed Nov. 28, 1950, Serial No. 607,050. Published Mar. 10, 1953. Class 38.

575,393. Laboratory Appliances—Namely, Incubators, Warming Tables, Centrifuges, Flasks, Test Tubes, Etc. Standard Scientific Supply Corp., New York, N. Y.
Filed Nov. 30, 1950, Serial No. 607,147. Published Feb. 3, 1953. Class 26.

575,394. Refrigerated Display Cases for Fruits, Vegetables, Beverages, Poultry, Fish, and Other Commodities. Trusty Manufacturers, Inc., La Porte, Ind.
Filed Dec. 8, 1950, Serial No. 607,462. Published Mar. 3, 1953. Class 31.

575,395. Children's Bicycles and Tricycles. D. Sebel and Company Limited, Erith, Kent, England.
Filed Jan. 11, 1951, Serial No. 608,680. Published Mar. 10, 1953. Class 22.

575,396. Rock Drilling Tools, Viz., Diamond Coring Bits and Diamond Drilling Bits. Sprague & Henwood, Incorporated, Scranton, Pa.
Filed Jan. 11, 1951, Serial No. 608,681. Published Mar. 3, 1953. Class 23.

575,397. Photographic Material—Namely, Sensitized Papers and Cloths. Charles Bruning Company Inc., New York, N. Y.
Filed Jan. 24, 1951, Serial No. 609,163. Published Sept. 25, 1951. Class 26.

575,398. Loom Supplies—Namely, Lug Straps, Check Straps, Top Roll Straps, Jack Straps, Harness Cords, Dobby Cords, Pickers, Picker Sticks, and Sweepsticks. The Bullard Clark Company, Danielson, Conn.
Filed Feb. 2, 1951, Serial No. 609,535. Published Mar. 24, 1953. Class 23.

575,399. Fresh Tomatoes. Toledo Hot House Cooperative Association, Toledo, Ohio.
Filed Feb. 2, 1951, Serial No. 609,574. Published Mar. 10, 1953. Class 46.

575,400. Camera Attachments and Accessories, Etc. The Kalart Company Inc., Plainville, Conn.
Filed Feb. 9, 1951, Serial No. 609,803. Published Feb. 3, 1953. Class 26.

575,401. Disinfectant and Household Germicide. The Gerson-Stewart Corporation Company, Cleveland, Ohio.
Filed Feb. 13, 1951, Serial No. 610,011. Published Mar. 17, 1953. Class 6.

575,402. Projector for Projecting Images Upon a Screen. Society For Visual Education, Inc., Chicago, Ill.
Filed Feb. 13, 1951, Serial No. 610,033. Published Feb. 3, 1953. Class 26.

575,403. Natural and/or Synthetic Rubber-Like Cohesive Coated Sheet Materials, Etc. The Gummed Products Company, Troy, Ohio.
Filed Feb. 17, 1951, Serial No. 610,214. Published Mar. 17, 1953. Class 5.

575,404. Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibres, and Combinations Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed Feb. 27, 1951, Serial No. 610,552. Published Sept. 4, 1951. Class 42.

575,405. Aircraft of the Heavier Than Air Type. Gyrodyne Company of America, Inc., New York, N. Y.
Filed Feb. 28, 1951, Serial No. 610,620. Published Mar. 3, 1953. Class 19.

575,406. Salve for Use in Treating Cuts, Wounds, Boils, Scalds, Itching, Prickly Heat, and Sores. Maybra E. Tyler, doing business as Balm-of-Gilead Salve Co., Yakima, Wash.
Filed Mar. 7, 1951, Serial No. 611,003. Published Feb. 24, 1953. Class 18.

575,407. Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, or Waxed Paper. Joe Lowe Corporation, New York, N. Y.
Filed Mar. 26, 1951, Serial No. 611,795. Published Mar. 17, 1953. Class 2.

575,408. Publications Issued and Distributed From Time to Time. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif.
Filed Mar. 28, 1951, Serial No. 611,920. Published Mar. 10, 1953. Class 38.

575,409. Speed Control Instruments Which Record the Rate of Automotive Vehicles Traveling Over a Roadway Between Spaced-Apart Points. Traffic House, Inc., Marshall, Mich.
Filed Mar. 29, 1951, Serial No. 611,981. Published Feb. 3, 1953. Class 26.

575,410. Electronic Relays Used in Controlling Electrical Circuits in Connection With Precision Measuring and Indicating Instruments. Philip M. Hackett, doing business under the name Niagara Electron Laboratories, Andover, N. Y.
Filed Apr. 5, 1951, Serial No. 612,256. Published Mar. 17, 1953. Class 21.

575,411. Colloid Laxative. Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif.
Filed Apr. 12, 1951, Serial No. 612,548. Published Feb. 24, 1953. Class 18.

575,412. Electronic Communications Equipment—Namely, Regenerators, Etc. The Technical Materiel Corporation, Mamaroneck, N. Y.
Filed Apr. 12, 1951, Serial No. 612,568. Published Mar. 17, 1953. Class 21.

575,413. Sash and Trim Painting Device Having a Fabric Paint-Distributing Pad Affixed to a Handle Extending Therefrom. McBell Enterprises, Kenosha, Wis.
Filed Apr. 16, 1951, Serial No. 612,698. Published Mar. 17, 1953. Class 29.

575,414. Men's and Young Men's Suits, Overcoats, Tuxedos, Dress Suits, Morning Coats, Sport Suits, Top Coats, Slacks; Women's and Misses' Suits and Coats. Chester Barrie, Ltd., New York, N. Y.
Filed Apr. 18, 1951, Serial No. 612,783. Published Mar. 17, 1953. Class 39.

575,415. Mirror To Be Mounted on Automotive Vehicles for Viewing Various Areas Surrounding the Vehicles. Reid Rolland Stout, doing business as Safety Cross Mirror Co., Lambertville, Mich.
Filed Apr. 26, 1951, Serial No. 613,199. Published Mar. 17, 1953. Class 19.

575,416. Textile Fabrics—Namely, Piece Goods of Silk, Rayon, Cotton, Wool, Nylon, Protein Fibers, Silver and Gold Metal Threads, and Piece Goods Composed of Mixtures of These Materials. Ducharne Inc., New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,217. Published Mar. 24, 1953. Class 42.

575,417. Strainers, Filters and Silica Gel Refrigerant Dryers Used in Electrical Refrigerating and Air Conditioning Systems. James Hans White, Brooklyn, N. Y.
Filed May 3, 1951, Serial No. 613,483. Published Mar. 24, 1953. Class 31.

575,418. Hand Manipulable Water-Guiding Spout for Use in Connection With Fountains To Direct the Stream of Water to the Drinker. John R. Hunneman, Jr., Woburn, Mass.
Filed May 4, 1951, Serial No. 613,509. Published Mar. 24, 1953. Class 13.

575,419. Fired Ceramic Shapes in Forms Such as Rods, Tubes, Solid Bodies, and Sheets Having General Uses in the Industrial Arts. Theodore R. Palumbo, Keyport, N. J.
Filed May 18, 1951, Serial No. 614,060. Published Mar. 17, 1953. Class 30.

575,420. Textile Fabrics Made of Rayon, Silk, Cotton, and Mixtures Thereof, Sold by the Piece, Yard, and Bolt. Frankly Fabrics Corp., New York, N. Y.
Filed May 24, 1951, Serial No. 614,295. Published July 15, 1952. Class 42.

575,421. Hats for Women, Misses, and Girls. Goldstein Millinery Company, Chicago, Ill.
Filed May 31, 1951, Serial No. 614,549. Published Mar. 17, 1953. Class 39.

575,422. Hats for Women, Misses, and Girls. Goldstein Millinery Company, Chicago, Ill.
Filed May 31, 1951, Serial No. 614,551. Published Mar. 17, 1953. Class 39.

575,423. Applebutter and Honey. Thun Investment Company, doing business as Ontelaunee Orchards, Reading and Leesport, Pa.
Filed May 31, 1951, Serial No. 614,585. Published Mar. 24, 1953. Class 46.

575,424. Rubber Vehicle Tires and Tubes, Hose, and V-Belts. The Dayton Rubber Company, Dayton, Ohio.
Filed June 2, 1951, Serial No. 614,652. Published Mar. 17, 1953. Class 35.

575,425. Tablets for Use in the Treatment of Arterio-Sclerosis. Boericke & Runyon, Inc., New York, N. Y.
Filed June 6, 1951, Serial No. 614,810. Published Feb. 24, 1953. Class 18.

575,426. Frozen Meats—Namely, Beef Steaks, Ground Beef, Beef Liver, Pork Chops, Veal Cutlets, and Beef Cheeseburgers (i. e., Slices of Finely Chopped Beef With American Process Cheese Therebetween). Robert S. Wolf, doing business under the name and style of Holiday Frosted Food Co., Philadelphia, Pa., assignee, by mesne assignments, of Holiday Frosted Food Co., a Firm.
Filed June 7, 1951, Serial No. 614,876. Published Mar. 10, 1953. Class 46.

575,427. Ladies,' Misses', and Children's Hats. Goldstein Millinery Company, Chicago, Ill.
Filed May 31, 1951, Serial No. 615,113. Published Mar. 17, 1953. Class 39.

575,428. Interval Timers for Use in Photoengraving and Photomechanical Reproduction—Namely, Timers Controlling the Operation of Plate Whirlers, Etc. Chemco Photoproducts Company, Inc., Glen Cove, N. Y.
Filed June 19, 1951, Serial No. 615,367. Published Feb. 3, 1953. Class 26.

575,429. Coal. Woolridge Coal Mining Company, Clearfield, Pa.
Filed June 21, 1951, Serial No. 615,511. Published Mar. 10, 1953. Class 1.

575,430. Garment Bags and Blanket Bags Made From Plastic. Seal Sac, Inc., New York, N. Y.
Filed June 22, 1951, Serial No. 615,576. Published Mar. 17, 1953. Class 2.

575,431. Color Chart Comprising a Multicolor Fabric Having Warp and Woof Strands of Different Colors, Etc. Setarti A.-G., Zurich, Switzerland.
Filed June 22, 1951, Serial No. 615,577. Published Mar. 24, 1953. Class 38.

575,432. Printed Song Title Strips for Use in Juke Boxes. Hit Parade Program Service, Inc., New York, N. Y.
Filed June 26, 1951, Serial No. 615,708. Published Mar. 17, 1953. Class 38.

575,433. Preparation for Use as an Aid in the Relief From Pain and Discomfort of Simple Headaches, Minor Inflammation of Muscles and Joints, and Pain Associated With Functional Menstrual Disturbances. The Tabrii Company, Philadelphia, Pa.
Filed July 10, 1951, Serial No. 616,303. Published Feb. 24, 1953. Class 18.

575,434. Pharmaceuticals, and in Particular, Antibiotics, Etc. Commercial Solvents Corporation, New York, N. Y.
Filed July 12, 1951, Serial No. 616,307. Published Feb. 24, 1953. Class 18.

575,435. Flexible and Stiff Tubes Used as Tubing, Etc. Rohrfabrik Rüschlikon A. G., vormals Kopex A. G., Rüschlikon, Switzerland.
Filed July 23, 1951, Serial No. 616,832. Published Mar. 24, 1953. Class 13.

575,436. Medicinal Tooth Powder for the Treatment of Pyorrhea. Curt E. Abramowitz, Brooklyn, N. Y.
Filed Aug. 1, 1951, Serial No. 617,180. Published Feb. 17, 1953. Class 18.

575,437. Men's Trousers, Suits, Overcoats, Top Coats, and Sport Coats. The Middlshade Company, Inc., Philadelphia, Pa.
Filed Aug. 8, 1951, Serial No. 617,453. Published Mar. 10, 1953. Class 39.

575,438. Paints in Dry, Paste, and Ready-Mixed Forms (Not Including Structural Steel Paint), Etc. Steelcote Manufacturing Company, St. Louis, Mo.
Filed Aug. 10, 1951, Serial No. 617,561. Published Mar. 17, 1953. Class 16.

575,439. Ophthalmic Lenses. Titmus Optical Company, Inc., Petersburg, Va.
Filed Aug. 16, 1951, Serial No. 617,775. Published Mar. 10, 1953. Class 26.

575,440. Men's and Boys' Apparel and Sportswear—Namely, Under Shirts, Vests, Etc. The Russell Manufacturing Company, Alexander City, Ala.
Filed Aug. 25, 1951, Serial No. 618,102. Published Dec. 23, 1952. Class 39.

575,441. Floor Polisher Attachment for Electric Vacuum Cleaners. Interstate Engineering Corporation, El Segundo, Calif.
Filed Aug. 31, 1951, Serial No. 618,298. Published Mar. 17, 1953. Class 21.

575,442. Synthetic Resinous Ion Exchange Materials. Chemical Process Company, San Francisco, Calif.
Filed Sept. 15, 1951, Serial No. 618,841. Published Mar. 3, 1953. Class 31.

575,443. Electrical Panelboards and Electrical Load Centers and Parts Thereof. General Electric Company, Schenectady, N. Y.
Filed Sept. 15, 1951, Serial No. 618,850. Published Mar. 17, 1953. Class 21.

575,444. Coloring Agents, Particularly Dyestuffs. General Dyestuff Corporation, New York, N. Y.
Filed Sept. 18, 1951, Serial No. 618,920. Published Mar. 17, 1953. Class 6.

575,445. Baby Chicks, Seed Meals for Furthur Manufacture in the Industrial Arts and Animal Hair. Swift & Company, Chicago, Ill.
Filed Sept. 18, 1951, Serial No. 618,945. Published Mar. 10, 1953. Class 1.

575,446. Screw Anchors. George Frederick Croessant, doing business as Croessant Machine Works, Reading, Pa.
Filed Sept. 25, 1951, Serial No. 619,191. Published Mar. 24, 1953. Class 13.

575,447. Preparation in Tablet Form Used in Hypertension. James P. Key, doing business under the name Key Pharmacal Company, Memphis, Tenn.
Filed Sept. 27, 1951, Serial No. 619,298. Published Feb. 17, 1953. Class 18.

575,448. Paper Bags, Paper Cartons, Paper Boxes Sold Empty for Holding Bread, Pies, and Pastry; Paper Sacks. Newark Paraffine & Parchment Paper Co., Newark, N. J.
Filed Oct. 1, 1951, Serial No. 619,471. Published Mar. 17, 1953. Class 2.

575,449. Soap—Namely, a Lanolin Soap Having Bacteriostatic Properties. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Oct. 8, 1951, Serial No. 619,713. Published Mar. 17, 1953. Class 32.

575,450. Adding Machines, Calculating Machines, Bookkeeping Machines, and Drawing Instruments. Bernhard Kerk, trading as Het Goolsche Schrijfmachinehuis & Handelsonderneming "Heka," Hilversum, Netherlands.
Filed Oct. 11, 1951, Serial No. 619,883. Published Mar. 24, 1953. Class 20.

575,451. Accessory Devices Used With Internal Combustion Engines—Namely, Air Cleaners, Etc. General Motors Corporation, Detroit, Mich.
Filed Oct. 19, 1951, Serial No. 620,206. Published Feb. 24, 1953. Class 23.

575,452. Lawnmowers. Monark Silver King, Inc., Chicago, Ill.
Filed Oct. 22, 1951, Serial No. 620,318. Published Mar. 24, 1953. Class 23.

575,453. Lawnmowers. Monark Silver King, Inc., Chicago, Ill.
Filed Oct. 22, 1951, Serial No. 620,319. Published Mar. 24, 1953. Class 23.

575,454. Enzyme-Vitamin Combination in the Form of Tablets. Crookes Laboratories, Inc., New York, N. Y.
Filed Oct. 23, 1951, Serial No. 620,336. Published Feb. 24, 1953. Class 18.

575,455. Women's Sport Dresses, Slacks, Cardigans, and Jackets; and Men's Sport Slacks, Cardigans, and Jackets. Tinling, Inc., New York, N. Y.
Filed Oct. 24, 1951, Serial No. 620,446. Published Mar. 10, 1953. Class 39.

575,456. Textile Fabrics by the Yard of Cotton, Wool, Silk, and Synthetic Fibers Especially for Making into Clothing, Flags, Ship Furnishings, and Wearing Apparel. The Cat Cay Realty Company, Limited, Nassau, Island of New Providence, Bahama Islands, British West Indies.
Filed Oct. 26, 1951, Serial No. 620,493. Published Dec. 30, 1952. Class 42.

575,457. Switches for Controlling the Heating Characteristics of Heaters of the Electrical Resistance Type. Edwin L. Wiegand Company, Pittsburgh, Pa.
Filed Oct. 26, 1951, Serial No. 620,536. Published Mar. 17, 1953. Class 21.

575,458. Men's Trousers, Pants and Sport Coats, Dungarees, Jackets, Work Shirts, and Slacks. Louis Lesnick and Son, Philadelphia, Pa.
Filed Oct. 29, 1951, Serial No. 620,609. Published Mar. 10, 1953. Class 39.

575,459. Motion Picture Film. International Alliance of Theatrical Stage Employes and Moving Picture Machine Operators of the United States and Canada, New York, N. Y.
Filed Oct. 31, 1951, Serial No. 620,732. Published Feb. 3, 1953. Class 26.

575,460. Water Moistenable Gummed Adhesive Tapes. The Gummed Products Company, Troy, Ohio.
Filed Nov. 6, 1951, Serial No. 620,915. Published Mar. 24, 1953. Class 5.

575,461. Fabric Anklets, Aprons, Infants' Bands, Bathing Apparel and Accessories, Etc. The Emporium Capwell Company, doing business as The Emporium, San Francisco, Calif.
Filed Nov. 7, 1951, Serial No. 620,939. Published Mar. 3, 1953. Class 39.

575,462. Canned Vegetables, Vinegar, Peperoncini, Peppers, Pickled Tomatoes, and Chile Sauce. Pietro Giambanco, doing business as Giambanco Wine Vinegar Plant and as Giambanco Packing Co., Oakdale, Calif.
Filed Nov. 8, 1951, Serial No. 621,010. Published Feb. 17, 1953. Class 46.

575,463. Antibiotic Troche. Abbott Laboratories, North Chicago, Ill.
Filed Nov. 13, 1951, Serial No. 621,114. Published Mar. 3, 1953. Class 18.

575,464. Ophthalmic Mountings and Parts Thereof Including Goggles and Protection-Glass Lenses. Willson Products, Inc., Reading, Pa.
Filed Nov. 13, 1951, Serial No. 621,186. Published Feb. 3, 1953. Class 26.

575,465. Filtering Apparatus for Removing Foreign Matter and Obnoxious Effects in Liquids. The Duro Co., Dayton, Ohio.
Filed Nov. 19, 1951, Serial No. 621,393. Published Mar. 10, 1953. Class 31.

575,466. Women's and Children's Bathing Suits, Sun Dresses, and Shirts. Kamehameha Garment Company, Ltd., Honolulu, Hawaii.
Filed Nov. 20, 1951, Serial No. 621,468. Published Mar. 17, 1953. Class 39.

575,467. Elastic Fabric. United Elastic Corporation, Easthampton, Mass.
Filed Oct. 30, 1951, Serial No. 621,604. Published Mar. 17, 1953. Class 42.

575,468. Air Filters Having Air-Deodorizing Properties, for Use with Heating, Ventilating, and Air-Conditioning Equipment. Research Products Corporation, Madison, Wis.
Filed Dec. 1, 1951, Serial No. 621,984. Published Mar. 10, 1953. Class 31.

575,469. Injection and Infusion Solutions Containing Partially Hydrolyzed Dextran and Used as a Plasma Substitute. Pharmacia Laboratories Inc., New York, N. Y.
Filed Dec. 3, 1951, Serial No. 622,027. Published Feb. 17, 1953. Class 18.

575,470. Section of a Periodic Publication Relating to Articles, Correspondence, and Discussion of the Subject of Industrial Training. Supervision Publishing Co. Inc., New York, N. Y.
Filed Nov. 10, 1951, Serial No. 622,057. Published Mar. 10, 1953. Class 38.

575,471. Blouses, Hats, Skirts, Dresses, Scarves, Ladies' Suits, Sweaters, Shorts, and Halters for Women's Wear. Ostel Enterprises, Inc., Miami, Fla.
Filed Dec. 4, 1951, Serial No. 622,088. Published Mar. 10, 1953. Class 39.

575,472. High Potency Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins. Nopco Chemical Company, Harrison, N. J.
Filed Dec. 8, 1951, Serial No. 622,274. Published Feb. 17, 1953. Class 18.

575,473. Self-Oilers for Hogs and Other Livestock Designed To Keep the Coats of Livestock From Becoming Dry and Getting Sores. Gerald R. Rasmussen, Chappel, Nebr.
Filed Dec. 11, 1951, Serial No. 622,354. Published Mar. 24, 1953. Class 44.

575,474. Men's Hosiery. Harry Rosenwasser, Brooklyn, N. Y.
Filed Dec. 11, 1951, Serial No. 622,356. Published Mar. 3, 1953. Class 39.

575,475. Lawn Mowers. Dille & McGuire Mfg. Co., Richmond, Ind.
Filed Dec. 14, 1951, Serial No. 622,484. Published Mar. 24, 1953. Class 23.

575,476. Lawn Mowers. Dille & McGuire Mfg. Co., Richmond, Ind.
Filed Dec. 14, 1951, Serial No. 622,485. Published Mar. 24, 1953. Class 23.

575,477. Lawn Mowers. Dille & McGuire Mfg. Co., Richmond, Ind.
Filed Dec. 14, 1951, Serial No. 622,489. Published Mar. 24, 1953. Class 23.

575,478. Periodicals for Use in Supervisor Training Issued Regularly. National Foremen's Institute, Inc., New London, Conn.
Filed Dec. 19, 1951, Serial No. 622,671. Published Mar. 10, 1953. Class 38.

575,479. Periodical Issued Regularly. National Foremen's Institute, Inc., doing business as Bureau of Business Practice, New London, Conn.
Filed Dec. 19, 1951, Serial No. 622,672. Published Mar. 24, 1953. Class 38.

575,480. Pas (Para-Aminosalicylic Acid), Its Salts and Its Derivatives for the Treatment of Tuberculosis. Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfurt am Main Hochst, Germany.
Filed Dec. 20, 1951, Serial No. 622,710. Published Feb. 17, 1953. Class 18.

575,481. Medicinal Bitters. Martini & Rossi Corporation, New York, N. Y.
Filed Dec. 21, 1951, Serial No. 622,752. Published Feb. 17, 1953. Class 18.

575,482. Ice Cream. Eskimo Pie Corporation, Bloomfield, N. J.
Filed Dec. 26, 1951, Serial No. 622,816. Published Mar. 10, 1953. Class 46.

575,483. Chamois and Sponges. Atlantic Sponge & Chamois Corporation, New York, N. Y.
Filed Dec. 28, 1951, Serial No. 622,917. Published Mar. 10, 1953. Class 1.

575,484. Vitamin Supplements for Addition to Animal and Poultry Feed. Merck & Co., Inc., Rahway, N. J.
Filed Dec. 29, 1951, Serial No. 623,000. Published Feb. 17, 1953. Class 18.

575,485. Pulverized Graphite Mixture Used as a Surface Coating of Molds in Foundries. The Wickes Corporation, Saginaw, Mich.
Filed Jan. 4, 1952, Serial No. 623,225. Published Mar. 10, 1953. Class 1.

575,486. Hot Sauce for Use as a Seasoning on Prepared Food. T. W. Garner Food Co., Winston-Salem, N. C.
Filed Jan. 5, 1952, Serial No. 623,247. Published Mar. 10, 1953. Class 46.

575,487. Cotton Piece Goods. Meb Export Co. Inc., New York, N. Y.
Filed Jan. 5, 1952, Serial No. 623,254. Published Mar. 10, 1953. Class 42.

575,488. Series of Motion Picture Animated Cartoons. Terrytoons, Inc., New Rochelle, N. Y.
Filed Jan. 10, 1952, Serial No. 623,437. Published Feb. 3, 1953. Class 26.

575,489. Feeds for Poultry, Livestock, Dogs, and Fur Bearing Animals. Archer-Daniels-Midland Company, Minneapolis, Minn.
Filed Jan. 14, 1952, Serial No. 623,530. Published Mar. 10, 1953. Class 46.

575,490. Hot Work Die Steel Forgings. Heppenstall Company, Pittsburgh, Pa.
Filed Jan. 15, 1952, Serial No. 623,600. Published Mar. 17, 1953. Class 14.

575,491. Hot Work Die Steel Forgings. Heppenstall Company, Pittsburgh, Pa.
Filed Jan. 15, 1952, Serial No. 623,601. Published Mar. 17, 1953. Class 14.

575,492. Magazine. American Lumberman, Inc., Chicago, Ill.
Filed Jan. 16, 1952, Serial No. 623,638. Published Mar. 10, 1953. Class 38.

575,493. Magazine. American Lumberman, Inc., Chicago, Ill.
Filed Jan. 16, 1952, Serial No. 623,639. Published Mar. 10, 1953. Class 38.

575,494. Fruit Preserves, Fruit Jelly, and Fruit Butters. Lutz & Schramm, Inc., doing business as Cruiksbank Brothers, Pittsburgh, Pa.
Filed Jan. 16, 1952, Serial No. 623,661. Published Mar. 10, 1953. Class 46.

575,495. Holder for Use in the Preparation of Specimens for Microscopic Examination and for Supporting the Specimens During Such Examination. Callaway Mills Company, La Grange, Ga.
Filed Jan. 19, 1952, Serial No. 623,792. Published Feb. 3, 1953. Class 26.

575,496. Rivets. Trojan Rivet Corporation, Glendale, Calif.
Filed Jan. 23, 1952, Serial No. 623,998. Published Mar. 24, 1953. Class 13.

575,497. WITHDRAWN.

575,498. Toy Stuffed Animals, Dolls, Musical Toys, Game Balls, Etc. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Jan. 24, 1952, Serial No. 624,029. Published Mar. 24, 1953. Class 22.

575,499. Ladies' Diamond Engagement Rings and Ladies' Wedding Rings. Jerome M. Levitz, Albany, N. Y.
Filed Jan. 24, 1952, Serial No. 624,039. Published Mar. 24, 1953. Class 28.

575,500. Surgical Adhesive Tape. Johnson & Johnson, New Brunswick, N. J.
Filed Jan. 25, 1952, Serial No. 624,088. Published Mar. 10, 1953. Class 44.

575,501. Megaphones. Frank J. Cassidy, doing business as Mega-Score, Chicago, Ill.
Filed Jan. 31, 1952, Serial No. 624,331. Published Mar. 24, 1953. Class 22.

575,502. Medicinal Salves. The Silicote Corporation, Oshkosh, Wis.
Filed Feb. 4, 1952, Serial No. 624,506. Published Feb. 17, 1953. Class 18.

575,503. Monthly Publication. Continental Oil Company, Houston, Tex.
Filed Feb. 9, 1952, Serial No. 624,733. Published Mar. 17, 1953. Class 38.

575,504. Insecticide and Fungicide. The Kilgore Seed Company, Plant City, Fla.
Filed Feb. 9, 1952, Serial No. 624,748. Published Mar. 17, 1953. Class 6.

575,505. Microcrystalline Wax. Bareco Oil Company, Tulsa, Okla.
Filed Feb. 11, 1952, Serial No. 624,773. Published Mar. 24, 1953. Class 6.

575,506. Hand and Bath Soaps, Laundry Soaps, Soap Flakes and Powders, Tar Soaps, Baby Soaps, Hair Shampoos, Dry Cleaning Fluids, and Medicinal Soaps. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 13, 1952, Serial No. 624,880. Published Mar. 17, 1953. Class 32.

575,507. Paper Merchandise Bags. Orchard Paper Co., St. Louis, Mo.
Filed Feb. 25, 1952, Serial No. 625,488. Published Mar. 10, 1953. Class 2.

575,508. Insulated Lining Fabrics of Acetate and a Combination of Acetate and Rayon for Ladies' and Men's Coats. Temp Resisto Corporation, New York, N. Y.
Filed Feb. 26, 1952, Serial No. 625,550. Published Mar. 10, 1953. Class 42.

575,509. Pulverized Limestone. H. E. Millard Lime and Stone Company, Annville, Pa.
Filed Feb. 27, 1952, Serial No. 625,615. Published Mar. 10, 1953. Class 1.

575,510. Metal Friction Toys (Rocket and Jet Airplanes, Etc.). Craig-Stanton & Co., Inc., New York, N. Y.
Filed Feb. 28, 1952, Serial No. 625,661. Published Mar. 24, 1953. Class 22.

575,511. Men's and Boys' Outer Shirts and Pants. W. Koury Company, Sanford, N. C.
Filed Feb. 28, 1952, Serial No. 625,676. Published Mar. 17, 1953. Class 39.

575,512. Materials Cut Out and Prepared Ready for Sewing Into Dresses. Stylecraft Frocks, Inc., Philadelphia, Pa.
Filed Mar. 1, 1952, Serial No. 625,829. Published Mar. 24, 1953. Class 39.

575,513. Cheese. New Yorker Cheese Company, Philadelphia, Pa.
Filed Mar. 7, 1952, Serial No. 626,104. Published Mar. 10, 1953. Class 46.

575,514. Cheese. New Yorker Cheese Company, Philadelphia, Pa.
Filed Mar. 7, 1952, Serial No. 626,105. Published Mar. 17, 1953. Class 46.

575,515. Door, Window and Cabinet Hardware—Namely, Sliding Door Hangers, Snap-On Hangers, Etc. Grant Pulley & Hardware Co., Flushing, N. Y.
Filed Mar. 8, 1952, Serial No. 626,161. Published Mar. 24, 1953. Class 13.

575,516. Antibiotic Derivative in Tablet Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,302. Published Feb. 17, 1953. Class 18.

575,517. Antibiotic Derivative in Liquid Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,307. Published Feb. 17, 1953. Class 18.

575,518. Antibiotic Combination in Tablet Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 13, 1952, Serial No. 626,366. Published Feb. 17, 1953. Class 18.

575,519. Canned Park Sausage, Canned Bulk Pork Sausage, Ham, Bacon, and Ham Sandwich Spread. The Smithfield Packing Company, Incorporated, Smithfield, Va.
Filed Mar. 14, 1952, Serial No. 626,475. Published Mar. 17, 1953. Class 46.

575,520. Aprons. Mary Booth, Washington, D. C.
Filed Mar. 17, 1952, Serial No. 626,537. Published Mar. 10, 1953. Class 39.

575,521. Monthly Magazine of National Circulation, Pamphlets, Books, Treatises, and Collections of Cartoons in Booklet Form. Robert L. Osgood, Los Angeles, Calif.
Filed Mar. 17, 1952, Serial No. 626,589. Published Mar. 10, 1953. Class 38.

575,522. Cereal Food Consisting of a Blend of Wheat, Rye, Bran and Flax, for Use as a Breakfast Cereal or for Use in Baking or Other Forms of Cooking. Roman Meal Company, Tacoma, Wash.
Filed Mar. 26, 1952, Serial No. 627,087. Published Mar. 17, 1953. Class 46.

575,523. Natural and Synthetic Rubber Latex Compounds. Rubber Corporation of America, Brooklyn, N. Y.
Filed Mar. 29, 1952, Serial No. 627,277. Published Mar. 10, 1953. Class 1.

575,524. Baked Goods—Namely, Breads, Rolls, Doughnuts, Muffins, Cookies, Cakes, and Pies. Stone Mill Products Co., Grand Rapids, Mich.
Filed Apr. 2, 1952, Serial No. 627,471. Published Mar. 17, 1953. Class 46.

575,525. Sheets and Pillowcases. Carol Textile Co. Inc., New York, N. Y.
Filed Mar. 31, 1952, Serial No. 627,322. Published Mar. 24, 1953. Class 42.

575,526. Raisins. Fresno Co-Operative Raisin Growers, Inc., Fresno, Calif.
Filed Apr. 7, 1952, Serial No. 627,680. Published Mar. 17, 1953. Class 46.

575,527. Steel Sheets and Strip. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,719. Published Mar. 10, 1953. Class 14.

575,528. Steel Sheets and Strip. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,723. Published Mar. 10, 1953. Class 14.

575,529. Automatic Dimmer for Vehicle Headlights. General Motors Corporation, Detroit, Mich.
Filed Apr. 10, 1952, Serial No. 627,877. Published Mar. 17, 1953. Class 21.

575,530. Ecclesiastical Textile Fabrics Made of Cotton, Wool, Linen, Silk, and Synthetic Fibers. Kao Novelty Co., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,946. Published Mar. 24, 1953. Class 42.

575,531. Books. Doubleday & Company, Inc., Garden City, N. Y.
Filed Apr. 16, 1952, Serial No. 628,146. Published Mar. 17, 1953. Class 38.

575,532. All Purpose Cleaner, for Use Particularly in the Kitchen, Laundry, Bathroom, Garage, Dairy, and Other Places, and/or for Washing Eggs. Apothecaries Hall Company, Waterbury, Conn.
Filed Apr. 21, 1952, Serial No. 628,388. Published Mar. 17, 1953. Class 52.

575,533. Bronze Machinery Bushings. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y.
Filed Apr. 18, 1952, Serial No. 628,398. Published Mar. 24, 1953. Class 23.

575,534. Steel in the Form of Bars, Bar Mill Shapes, Plates, Sheets, and Strip. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 24, 1952, Serial No. 628,657. Published Mar. 10, 1953. Class 14.

575,535. Steel in the Form of Bars, Bar Mill Shapes, Plates, Sheets, and Strip. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 24, 1952, Serial No. 628,659. Published Mar. 10, 1953. Class 14.

575,536. Sodium-Ion-Removing Preparation for Use in Connection With Hypertension. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Apr. 26, 1952, Serial No. 628,787. Published Feb. 17, 1953. Class 18.

575,537. Preparation for Treatment of and Prophylaxis Against Infections Due to Penicillin-Susceptible Organisms. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Apr. 26, 1952, Serial No. 628,788. Published Feb. 17, 1953. Class 18.

575,538. Dental Metals—Namely, a Stainless Steel Alloy Used in Making Cast Dental Partials. Earnest Dental Laboratory, Philadelphia, Pa.
Filed Apr. 28, 1952, Serial No. 628,811. Published Mar. 10, 1953. Class 44.

575,539. Hydraulic Presses and Parts Therefor. The Denison Engineering Company, Columbus, Ohio.
Filed May 1, 1952, Serial No. 629,000. Published Mar. 24, 1953. Class 23.

575,540. Feature Articles in a Periodical. The Reader's Digest Association, Inc., Pleasantville, N. Y.
Filed May 1, 1952, Serial No. 629,052. Published Mar. 24, 1953. Class 38.

575,541. Feature Articles in a Periodical. The Reader's Digest Association, Inc., Pleasantville, N. Y.
Filed May 1, 1952, Serial No. 629,053. Published Mar. 24, 1953. Class 38.

575,542. Feature Articles in a Periodical. The Reader's Digest Association, Inc., Pleasantville, N. Y.
Filed May 1, 1952, Serial No. 629,057. Published Mar. 24, 1953. Class 38.

575,543. Sun Reflecting Collar Coated With Reflecting Media Designed To Be Worn Around the Neck of a Person To Produce a Sun Tan. Samuel Friedberg, doing business under the firm name and style of Spee-D-Tan Co., Atlantic City, N. J.
Filed May 2, 1952, Serial No. 629,105. Published Mar. 10, 1953. Class 39.

575,544. Electrostatic Air Filters. The Goodyear Tire & Rubber Company, Akron, Ohio.
Filed May 2, 1952, Serial No. 629,108. Published Mar. 17, 1953. Class 31.

575,545. Bread. Lewis Bros. Bakeries, Inc., Anna, Ill.
Filed May 2, 1952, Serial No. 629,114. Published Mar. 10, 1953. Class 46.

575,546. Hexachlorobutadiene. Hooker Electrochemical Company, Niagara Falls, N. Y.
Filed May 3, 1952, Serial No. 629,163. Published Mar. 17, 1953. Class 6.

575,547. Fresh and Frozen Fish. O'Donnell-Usen Fisheries Corporation, Boston, Mass.
Filed May 6, 1952, Serial No. 629,250. Published Mar. 24, 1953. Class 46.

575,548. Playsuits for Children, Young Boys, and Girls. Herman Iskin & Co. Inc., Telford, Pa., and New York, N. Y.
Filed May 7, 1952, Serial No. 629,300. Published Mar. 10, 1953. Class 39.

575,549. Dyestuffs for Dyeing Anodic Oxidized Aluminum. Ciba Limited, Basel, Switzerland.
Filed May 8, 1952, Serial No. 629,358. Published Mar. 24, 1953. Class 6.

575,550. Solid Rubber Pipe and Fittings. American Hard Rubber Company, Hempstead and New York, N. Y.
Filed May 14, 1952, Serial No. 629,044. Published Mar. 24, 1953. Class 35.

575,551. Candy. Leaf Brands, Inc., Chicago, Ill.
Filed May 15, 1952, Serial No. 629,740. Published Mar. 10, 1953. Class 46.

575,552. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed May 16, 1952, Serial No. 629,787. Published Sept. 30, 1952. Class 42.

575,553. Cotton Textile Fabric. Wm. Simpson, Sons & Co., Inc., Philadelphia, Pa.
Filed May 19, 1952, Serial No. 629,918. Published Mar. 24, 1953. Class 42.

575,554. Pharmaceutical Preparation Containing Hormones and Vitamins. Schering Corporation, Bloomfield, N. J.
Filed May 21, 1952, Serial No. 630,032. Published Feb. 24, 1953. Class 18.

575,555. Pharmaceutical Preparation Providing Rapid and Sustained Sedation With Mild Spasmolytic Action. Walker Laboratories, Inc., Mount Vernon, N. Y.
Filed May 21, 1952, Serial No. 630,047. Published Feb. 24, 1953. Class 18.

575,556. Collapsible Plastic Tube Adapted for Use With a Hypodermic Needle for the Withdrawal and Retention of a Blood Sample. Abbott Laboratories, North Chicago, Ill.
Filed May 23, 1952, Serial No. 630,107. Published Mar. 10, 1953. Class 44.

575,557. Cotton Tufted Scatter Rugs for Bathroom, Bedroom, and Like Use. Callaway Mills Company, La Grange, Ga.
Filed May 23, 1952, Serial No. 630,116. Published Mar. 10, 1953. Class 42.

575,558. Antibiotic Preparation. The Upjohn Company, Kalamazoo, Mich.
Filed May 23, 1952, Serial No. 630,174. Published Mar. 3, 1953. Class 18.

575,559. Disposable Paper Bags for Use in Hospitals and Sick-Rooms. Charles L. Rubinstein, Milwaukee, Wis.
Filed May 24, 1952, Serial No. 630,213. Published Mar. 10, 1953. Class 2.

575,560. Manicuring Sets, the Contents of Which Are Standardized to Include the Following: Nail File, Cuticle Scissor, Cuticle Pusher, Nail Cleaner, a Tweezer. John S. Sherman, doing business as John S. Sherman Importing Company, Brooklyn, N. Y.
Filed May 24, 1952, Serial No. 630,218. Published Mar. 10, 1953. Class 44.

575,561. Fresh Vegetables, Fresh Berries, and Fresh Fruits. Crown Produce Co., Los Angeles, Calif.
Filed May 27, 1952, Serial No. 630,314. Published Mar. 10, 1953. Class 46.

575,562. Optical Bleaching Agents and Color Brightening Agents for Use on Cloth. Mayborn Products Limited, London, England.
Priority under Sec. 44(d). British Registration No. 705,075, filed Feb. 20, 1952.
Filed May 27, 1952, Serial No. 630,331. Published Mar. 17, 1953. Class 6.

575,563. Hosiery for Women. Julius Kayser & Co., New York, N. Y.
Filed May 31, 1952, Serial No. 630,538. Published Mar. 3, 1953. Class 39.

575,564. Knitted and Woven Fabrics Made of Wool, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof Sold in the Piece. Continental Mills, Inc., Philadelphia, Pa.
Filed May 23, 1952, Serial No. 630,654. Published Mar. 10, 1953. Class 42.

575,565. Synthetic Organosilanes, Organohalogenosilanes, Organo-Silicon Esters, Organosiloxanes, Derivatives Thereof, and Compositions Containing the Same Having General Use in the Industrial Arts. General Electric Company, Schenectady, N. Y.
Filed June 7, 1952, Serial No. 630,889. Published Mar. 17, 1953. Class 6.

575,566. Finger Rings. Schless-Harwood Co., Inc., New York, N. Y.
Filed June 10, 1952, Serial No. 631,026. Published Mar. 24, 1953. Class 28.

575,567. Paperboard Boxes. Frances H. Hayes, doing business as Closet Accessories Company, Kenilworth, Ill.
Filed June 12, 1952, Serial No. 631,104. Published Mar. 17, 1953. Class 2.

575,568. Ladies' and Misses' Outerwear—Namely, Skirts, Jackets, and Blouses. Samuel Parnes & Sons, Inc., New York, N. Y.
Filed June 12, 1952, Serial No. 631,121. Published Mar. 24, 1953. Class 39.

575,569. Toy Guns and Toy Figures. Pyro Plastics Corporation, Union, N. J.
Filed June 12, 1952, Serial No. 631,122. Published Mar. 17, 1953. Class 22.

575,570. Textile Leathers—Namely, Leather Linings for the Box of a Loom. Graton & Knight Company, Worcester, Mass.
Filed June 13, 1952, Serial No. 631,154. Published Mar. 10, 1953. Class 1.

575,571. Merchandise Bags, Tubes, and Pouches Formed Wholly or in Part From Vinyl Film Material. Shellmar Products Corporation, Chicago, Ill.
Filed June 17, 1952, Serial No. 631,318. Published Mar. 24, 1953. Class 2.

575,572. Vegetable Oil Shortening. Anderson, Clayton & Co., Sherman, Tex.
Filed June 18, 1952, Serial No. 631,335. Published Mar. 17, 1953. Class 4.

575,573. Cakes, Pies, Bread, Rolls, Tarts, Candies, and Biscuits. Sallie Cabell Jones, Richmond, Va.
Filed June 19, 1952, Serial No. 631,427. Published Mar. 10, 1953. Class 46.

575,574. Nursery Stock Including Flowers, Perennials, Trees, Shrubbery, Berry Bushes, Plants, Vines, and Like. The Welch Nurseries, Inc., Shenandoah, Iowa.
Filed June 21, 1952, Serial No. 631,588. Published Mar. 10, 1953. Class 1.

575,575. Nursery Stock Including Flowers, Perennials, Trees, Shrubbery, Berry Bushes, Plants, Vines, and the Like. The Welch Nurseries, Inc., Shenandoah, Iowa.
Filed June 21, 1952, Serial No. 631,589. Published Mar. 10, 1953. Class 1.

575,576. Toys—Namely, Dolls, Doll Clothing, and Stuffed Animals. The Perry Knitting Company, Incorporated, Perry, N. Y.
Filed June 25, 1952, Serial No. 631,761. Published Mar. 24, 1953. Class 22.

575,577. Baby Chicks and Turkey Poults. Vilas & Company, also doing business as Holstein Produce & Hatchery, Storm Lake and Holstein, Iowa.
Filed June 25, 1952, Serial No. 631,767. Published Mar. 10, 1953. Class 1.

575,578. Boys' Periodical Magazine. Wret Publishing Co., Inc., Minneapolis, Minn.
Filed June 25, 1952, Serial No. 631,770. Published Mar. 17, 1953. Class 38.

575,579. Medicinal Preparation—Namely, a Modified Virus Preparation for the Prevention of Hog Cholera in Swine. Cutter Laboratories, Berkeley, Calif.
Filed June 28, 1952, Serial No. 631,920. Published Mar. 3, 1953. Class 18.

575,580. Frames for Glasses. Universal Optical Company, Inc., Providence, R. I.
Filed June 28, 1952, Serial No. 631,953. Published Mar. 24, 1953. Class 26.

575,581. Metal Barrels, Drums, and Stationary Tanks. Trans-Arabian Pipe Line Company, New York, N. Y., and Beirut, Lebanon.
Filed June 7, 1952, Serial No. 631,961. Published Mar. 10, 1953. Class 2.

575,582. Ladies' and Misses' Dresses. Filsy Frocks, New York, N. Y.
Filed July 1, 1952, Serial No. 632,024. Published Mar. 24, 1953. Class 39.

575,583. Ladies' Blouses and Shirts. William Netzky, doing business under the trade name and style of Susquehanna Waist Company, Upland, Pa.
Filed July 1, 1952, Serial No. 632,041. Published Mar. 24, 1953. Class 39.

575,584. Containers for Waste, Which Are Insertable in Journal Boxes of Railway Cars. Hulson Company, Chicago, Ill.
Filed July 2, 1952, Serial No. 632,086. Published Mar. 17, 1953. Class 19.

575,585. Pickles and Canned Sauerkraut. Bond Pickle Company, Oconto, Wis.
Filed July 5, 1952, Serial No. 632,148. Published Mar. 17, 1953. Class 46.

575,586. Plastic Housewares—Namely, Boxes for Meat Storage in Refrigerators. Burroughs Manufacturing Corporation, Los Angeles, Calif.
Filed July 5, 1952, Serial No. 632,151. Published Mar. 17, 1953. Class 2.

575,587. Dress Patterns With Printed Instructions. Kiddie Key Co., Waco, Tex.
Filed July 7, 1952, Serial No. 632,212. Published Mar. 24, 1953. Class 26.

575,588. Flexible Plastic Zippered Bags for Ladies' Gloves. Jeanne L. Poclask, doing business under the name and style of Laverne, Chicago, Ill.
Filed July 7, 1952, Serial No. 632,222. Published Mar. 24, 1953. Class 2.

575,589. Fishing Rods. Shakespeare Company, Kalamazoo, Mich.
Filed July 9, 1952, Serial No. 632,331. Published Mar. 17, 1953. Class 22.

575,590. Publications Issued From Time to Time, The Institute of Radio Engineers, Inc., New York, N. Y.
Filed July 12, 1952, Serial No. 632,478. Published Mar. 10, 1953. Class 38.

575,591. Publications Issued From Time to Time. The Institute of Radio Engineers, Inc., New York, N. Y.
Filed July 12, 1952, Serial No. 632,480. Published Mar. 10, 1953. Class 38.

575,592. High Potency Multiple Vitamin Preparation for a Vitaminosis Used in Prenatal Therapy; and as a Dietary Supplement. Chicago Pharmacal Company, Chicago, Ill.
Filed July 16, 1952, Serial No. 632,602. Published Mar. 3, 1953. Class 18.

575,593. Periodical Published From Time to Time, Usually During Each of the Four Seasons of the Year, i. e., Spring, Summer, Fall, and Winter. The Clinic and Hospital, Inc., also doing business as McCleary Clinic and Hospital, Excelsior Springs, Mo.
Filed July 16, 1952, Serial No. 632,603. Published Mar. 17, 1953. Class 38.

575,594. Transparent, Self-Adhering Sheets Bearing Various Indicia, Characters and Symbols, Adapted To Be Cut Up for Application to Drawing Sheets for Reproduction. Bryan-Brandenburg Corporation of California, Los Angeles, Calif.
Filed July 17, 1952, Serial No. 632,655. Published Mar. 10, 1953. Class 38.

575,595. Storage and Display Food Refrigerators, Bottle Coolers, Ice Cube Makers, Beer Coolers, and Walk-In Coolers, Etc. Sherer-Gillett Company, Marshall, Mich.
Filed July 17, 1952, Serial No. 632,695. Published Jan. 20, 1953. Class 31.

575,596. Plastic Sunlight Filter Attachments for Windshields and Windows of Vehicles. Howard N. Jacobson, doing business as The Autosite Co., Detroit, Mich.
Filed July 19, 1952, Serial No. 632,787. Published Mar. 17, 1953. Class 19.

575,597. Hops. E. Clemens Horst Co., San Francisco, Calif.
Filed June 27, 1952, Serial No. 632,817. Published Mar. 17, 1953. Class 1.

575,598. Fabrics-in-the-Piece, Made of Wool and Synthetic Fibers. Grandma Moses Properties, Inc., New York, N. Y.
Filed July 21, 1952, Serial No. 632,837. Published Mar. 24, 1953. Class 42.

575,599. Filter Plates. The Richardson Company, Lockland, Ohio.
Filed July 22, 1952, Serial No. 632,901. Published Mar. 10, 1953. Class 31.

575,600. Printed Adhesive Markers for Identifying Pipe in Industrial Plants To Indicate Their Respective Uses. Western Lithograph Company, Los Angeles, Calif.
Filed July 22, 1952, Serial No. 632,908. Published Mar. 10, 1953. Class 38.

575,601. Cotton Upholstery Fabrics. Glen Raven Cotton Mills, Inc., Glen Raven, N. C.
Filed July 23, 1952, Serial No. 632,932. Published Mar. 24, 1953. Class 42.

575,602. Eyeglasses and More Particularly Sun Glasses. Mail Pouch Tobacco Co., Wheeling, W. Va.
Filed July 28, 1952, Serial No. 633,159. Published Feb. 24, 1953. Class 26.

575,603. Liquid Starch. Jones Chemicals, Inc., Jacksonville, Fla.
Filed July 29, 1952, Serial No. 633,204. Published Mar. 17, 1953. Class 6.

575,604. Slime Control Agents in Industrial Water Systems, Etc. W. H. and L. D. Betz, Philadelphia, Pa.
Filed July 30, 1952, Serial No. 633,250. Published Mar. 17, 1953. Class 6.

575,605. Respirators and Parts Thereof, To Be Worn on the Face for Filtering Dusts, Fumes, and Toxic Gases—Namely, Cartridges and Filters Sold as a Unit for Such Respirators. Wilson Products, Inc., Reading, Pa.
Filed July 30, 1952, Serial No. 633,282. Published Mar. 24, 1953. Class 44.

575,606. Woven Fabric Piece Goods Made of Synthetic Yarns. Fabrex Corp., New York, N. Y.
Filed July 31, 1952, Serial No. 633,304. Published Mar. 24, 1953. Class 42.

575,607. Diapers and Diaper Panties. Martin S. Burns, trading as The Perfect Panti Company, Philadelphia, Pa.
Filed Aug. 1, 1952, Serial No. 633,347. Published Mar. 3, 1953. Class 39.

575,608. Men's Sportshirts. Damon Creations, Inc., New York, N. Y.
Filed Aug. 1, 1952, Serial No. 633,352. Published Mar. 17, 1953. Class 39.

575,609. Medicinal Preparation for Treatment of Asthma and Bronchial Ailments. Luis J. Betz, doing business as D'Fraussia Laboratories, Los Angeles, Calif.
Filed Aug. 4, 1952, Serial No. 633,443. Published Feb. 24, 1953. Class 18.

575,610. Head Coverings for Use in Protecting the Facial Make-Up and the Coiffure. Doris I. Corbey, doing business under the fictitious name of Holli-Hood Co., Hollywood, Calif.
Filed Aug. 4, 1952, Serial No. 633,449. Published Mar. 24, 1953. Class 39.

575,611. Coats, Vests, Trousers, and Knickerbockers for Men, Youths, and Boys. J. Schoeneman, Inc., Baltimore, Md.
Filed Aug. 4, 1952, Serial No. 633,468. Published Mar. 17, 1953. Class 39.

575,612. Pharmaceutical Preparation To Be Used as a Dietary Supplement. Organon Inc., Orange, N. J.
Filed Aug. 5, 1952, Serial No. 633,506. Published Mar. 3, 1953. Class 18.

575,613. Medicinal Preparation for the Treatment of Indigestion, Flatulence, and Disorders of the Stomach. Arthur T. Schreiber, Louisville, Ky.
Filed Aug. 5, 1952, Serial No. 633,513. Published Feb. 24, 1953. Class 18.

575,614. Photographic Chemicals. Dr. Edgar Gretener A. G., Zurich, Switzerland.
Filed Aug. 7, 1952, Serial No. 633,580. Published Mar. 17, 1953. Class 6.

575,615. Medicinal Preparation for External Use, Having Analgesic, Antiseptic, and Antipyrogenetic Properties. Shore Chemical Company, Incorporated, Madison, Conn.
Filed Aug. 8, 1952, Serial No. 633,636. Published Feb. 24, 1953. Class 18.

575,616. Stabilizers for Automotive Vehicles of the Variety Which Comprises a Shiftable Weight in a Tube Secured to the Vehicle. The Kimball Co., Cleveland, Ohio.
Filed Aug. 9, 1952, Serial No. 633,675. Published Mar 24, 1953. Class 19.

575,617. Insecticide. American Scientific Laboratories, Inc., Madison, Wis.
Filed Aug. 11, 1952, Serial No. 633,690. Published Mar. 17, 1953. Class 6.

575,618. Textile Ribbons Made of Rayon, Silk, Cotton, Synthetic, and Like Fibers. Willard & Giles Inc., New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,811. Published Mar. 24, 1953. Class 42.

575,619. Antiseptic Deodorant. Torbert Laboratories, Inc., New Rochelle, N. Y.
Filed Aug. 13, 1952, Serial No. 633,891. Published Mar. 17, 1953. Class 18.

575,620. Wood Folding Rules. Master Rule Manufacturing Co. Inc., Middletown, N. Y.
Filed Aug. 14, 1952, Serial No. 633,939. Published Feb. 24, 1953. Class 26.

575,621. Pictorial Novelty Stamps. Space Stamps Co., New York, N. Y.
Filed Aug. 16, 1952, Serial No. 634,058. Published Mar. 24, 1953. Class 38.

575,622. Fishing Lines and Leaders. Sevenstrand Tackle Mfg. Co., Long Beach, Calif.
Filed Aug. 18, 1952, Serial No. 634,121. Published Mar. 24, 1953. Class 22.

575,623. Optical Goods—Namely, Binoculars and Telescopes. Charles T. Takahashi, doing business under the name of C. T. Takahashi & Co., Seattle, Wash.
Filed Aug. 18, 1952, Serial No. 634,126. Published Mar. 3, 1953. Class 26.

575,624. Inflated Balls—Namely, Basketballs, Footballs, Volleyballs, and Soccer Balls. Wilson Sporting Goods Co., Chicago, Ill.
Filed Aug. 18, 1952, Serial No. 634,130. Published Mar. 24, 1953. Class 22.

575,625. Composition Having Hypnotic Sedative Anesthetic and Cerebral Stimulating Properties. Abbott Laboratories, North Chicago, Ill.
Filed Aug. 20, 1952, Serial No. 634,178. Published Mar. 3, 1953. Class 18.

575,626. Denture Repair Material, Comprising Resinous Powder and Liquid To Be Combined To Form a Resinous Product for Use in the Repair of Dentures. Reliance Dental Mfg. Co., Chicago, Ill.
Filed Aug. 20, 1952, Serial No. 634,215. Published Mar. 17, 1953. Class 44.

575,627. Electric Refrigerators. McCall Refrigerator Corporation, Hudson, N. Y.
Filed Aug. 21, 1952, Serial No. 634,262. Published Mar. 10, 1953. Class 31.

575,628. Lawn Grass Seed. T. W. Wood & Sons, Richmond, Va.
Filed Aug. 21, 1952, Serial No. 634,284. Published Mar. 24, 1953. Class 1.

575,629. Fishing Lures. Paul Bennett, Wilmette, Ill.
Filed Aug. 22, 1952, Serial No. 634,294. Published Mar. 24, 1953. Class 22.

575,630. Sterilizers for Syringes or the Like. Midland Equipment Company, Chicago, Ill.
Filed Aug. 22, 1952, Serial No. 634,332. Published Mar. 24, 1953. Class 44.

575,631. Quilted Fabrics of Cotton, Wool, Silk, and Synthetic Fibers. New Jersey Quilting Co., Inc., Jersey City, N. J.
Filed Aug. 22, 1952, Serial No. 634,336. Published Mar. 24, 1953. Class 42.

575,632. Electrical Hearing Aids and Parts Thereof. Zenith Radio Corporation, Chicago, Ill.
Filed Aug. 22, 1952, Serial No. 634,359. Published Mar. 24, 1953. Class 44.

575,633. Golf Balls. United States Rubber Company, New York, N. Y.
Filed Aug. 23, 1952, Serial No. 634,388. Published Mar. 24, 1953. Class 22.

575,634. Fishing Implements in the Form of Spinning Reels, Fly-Fishing Reels, Spinning and Fly-Fishing Rods Without Lines, and Catching Hooks, and Lures, Such as Spinners, Trolls, Wobblers, and Bobs for Dib-Fishing. Aktiebolaget Urfabriken, Svangsta, Sweden.
Filed Aug. 27, 1952, Serial No. 634,513. Published Mar. 24, 1953. Class 22.

575,635. Books. Avon Publishing Co., Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,517. Published Mar. 24, 1953. Class 38.

575,636. Synthetic Yarn. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Aug. 27, 1952, Serial No. 634,526. Published Mar. 10, 1953. Class 43.

575,637. Mildewproofing Agent. Nuodex Products Co. Inc., Elizabeth, N. J.
Filed Aug. 27, 1952, Serial No. 634,542. Published Mar. 17, 1953. Class 6.

575,638. Game Cards and Booklets for Use in a Bingo Game. Harry B. Ziegler, Duncan, Okla.
Filed Aug. 27, 1952, Serial No. 634,563. Published Mar. 24, 1953. Class 22.

575,639. Photographic Cameras. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Aug. 28, 1952, Serial No. 634,578. Published Mar. 17, 1953. Class 26.

575,640. Photoflash Battery and Bulb Tester. Bright Star Battery Company, Clifton, N. J.
Filed Aug. 29, 1952, Serial No. 634,628. Published Mar. 17, 1953. Class 26.

575,641. Watches, Clocks, Watch Movements, Watch Cases, and Watch Dials. Societe Anonyme Mido, Bienne, Switzerland.
Filed Aug. 29, 1952, Serial No. 634,663. Published Mar. 17, 1953. Class 27.

575,642. Prepared Cooked and Canned Products of Alimentary Paste—Namely, Spaghetti in Tomato Sauce With Cheese. The American Beauty Macaroni Co., Kansas City, Mo.
Filed Sept. 2, 1952, Serial No. 634,724. Published Mar. 24, 1953. Class 46.

575,643. Abrasive Lawn Mower Sharpening Compounds. Foley Manufacturing Company, Minneapolis, Minn.
Filed Sept. 2, 1952, Serial No. 634,736. Published Mar. 24, 1953. Class 4.

575,644. Core Oils—Namely, Core Sand Binders of Both the Oil Containing and Non-Oil Containing Types. Peiron Corporation, Lyons, Ill.
Filed Sept. 2, 1952, Serial No. 634,754. Published Mar. 24, 1953. Class 5.

575,645. Seat Covers for Automobiles and for Vehicles. Glostex Products, Inc., Chicago, Ill.
Filed Sept. 5, 1952, Serial No. 634,899. Published Mar. 24, 1953. Class 19.

575,646. Printed Publication Published Monthly. The Skipper Publishing Company, Annapolis, Md.
Filed Sept. 8, 1952, Serial No. 634,998. Published Mar. 10, 1953. Class 38.

575,647. Comic Drawings Published in Daily and Sunday Newspapers. NEA Service, Inc., Cleveland, Ohio.
Filed Sept. 9, 1952, Serial No. 635,048. Published Mar. 10, 1953. Class 38.

575,648. Piece Goods of Nylon, Rayon, Cotton, Wool or Silk, or Substitutes Therefor, or Combinations Thereof. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Sept. 10, 1952, Serial No. 635,105. Published Mar. 24, 1953. Class 42.

575,649. Pulp Bait Buckets. Animal Trap Company of America, Lititz, Pa.
Filed Aug. 18, 1952, Serial No. 635,109. Published Mar. 24, 1953. Class 22.

575,650. Handkerchiefs. Lillian B. Gédance, Philadelphia, Pa.
Filed Sept. 12, 1952, Serial No. 635,130. Published Mar. 24, 1953. Class 39.

575,651. Woolen Fabrics in the Piece, Composed Wholly or in Substantial Part of Llama Wool. Lambeth Woolens, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,186. Published Mar. 24, 1953. Class 42.

575,652. Piece Goods of Nylon, Rayon, Cotton, Wool, or Silk, or Substitutes Therefor, or Combinations Thereof. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,203. Published Mar. 24, 1953. Class 42.

575,653. Caskets and Burial Vaults Made of Metal, Wood, and Combinations Thereof. Atlanta Metallic Casket Company, Atlanta, Ga.
Filed Sept. 15, 1952, Serial No. 635,248. Published Mar. 17, 1953. Class 2.

575,654. Trays Made From Wood Pulp, Which Trays Are Sold Empty. The Diamond Match Company, New York, N. Y.
Filed Sept. 16, 1952, Serial No. 635,290. Published Mar. 10, 1953. Class 2.

575,655. Trays With Hinged Covers, Made From Wood Pulp, Which Trays Are Sold Empty. The Diamond Match Company, New York, N. Y.
Filed Sept. 16, 1952, Serial No. 635,291. Published Mar. 10, 1953. Class 2.

575,656. Liquid Cooling Towers and Parts Thereof. The Marley Company, Inc., Kansas City, Mo.
Filed Sept. 17, 1952, Serial No. 635,371. Published Mar. 24, 1953. Class 31.

575,657. Liquid Cooling Towers and Parts Thereof. The Marley Company, Inc., Kansas City, Mo.
Filed Sept. 17, 1952, Serial No. 635,372. Published Mar. 24, 1953. Class 31.

575,658. Trays, With Hinged Covers, Made From Wood Pulp, Which Trays Are Sold Empty. The Diamond Match Company, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,409. Published Mar. 17, 1953. Class 2.

575,659. Cheese, Butter, Ice Cream, Fresh Buttermilk, Fresh Milk, and French Eggs. Oscar H. Stover, doing business under the names and styles of the Graoc Dairy Products Co., The Graoc Farm Dairy, and Graoc Farm Dairy, East Aurora, N. Y.
Filed Sept. 18, 1952, Serial No. 635,442. Published Mar. 24, 1953. Class 46.

575,660. Ceramic Dinnerware. Santa Anita Potteries, Los Angeles, Calif.
Filed Sept. 20, 1952, Serial No. 635,552. Published Mar. 17, 1953. Class 30.

575,661. Ceramic Dinnerware. Santa Anita Potteries, Los Angeles, Calif.
Filed Sept. 20, 1952, Serial No. 635,553. Published Mar. 17, 1953. Class 30.

575,662. Various Polyhydric Alcohols Such as Pentaerytbritol and Polypentaerytbritol. Heyden Chemical Corporation, New York, N. Y.
Filed Sept. 23, 1952, Serial No. 635,652. Published Mar. 17, 1953. Class 6.

575,663. Preparation Used as an Addition Agent in Electroplating Solutions. The Lea Manufacturing Company, Waterbury, Conn.
Filed Sept. 24, 1952, Serial No. 635,702. Published Mar. 24, 1953. Class 6.

575,664. Water Purification Compound Consisting Essentially of Glycine Iodides. Abbott Laboratories, North Chicago, Ill.
Filed Sept. 27, 1952, Serial No. 635,868. Published Mar. 17, 1953. Class 6.

575,665. Photographic Portraits. Dunbar-Stanley Studios, Charlotte, N. C., assignor to J. C. Penney Company, New York, N. Y., a corporation of Delaware.
Filed Sept. 29, 1952, Serial No. 635,906. Published Mar. Mar. 24, 1953. Class 38.

575,666. Barbeque Sauce Composed of Vinegar, Tomatoes, Sugar, Spices, Monosodium Glutamate, Salt, Onion, Garlic, and Flavoring. Meat Industry Suppliers, Inc., Chicago, Ill.
Filed Sept. 29, 1952, Serial No. 635,926. Published Mar. 10, 1953. Class 46.

575,667. Chemical Compositions Used in the Treatment of Textiles and More Particularly for Antistatic Compositions for Textiles. Nopco Chemical Company, Harrison, N. J.
Filed Sept. 30, 1952, Serial No. 635,973. Published Mar. 24, 1953. Class 6.

575,668. Medicinal Compound for the Relief of Muscular Aches and Pains. William E. Rider, operating under the name and style of Riders Limited, North Hollywood, Calif.
Filed Sept. 30, 1952, Serial No. 635,975. Published Mar. 17, 1953. Class 18.

575,669. Gaskets for Forming Fluid Tight Joints Between Relatively Stationary Machine Parts and Oil Seals for Forming Fluid Tight Joints Between Relatively Movable Machine Parts. Victor Manufacturing & Gasket Co., Chicago, Ill.
Filed Oct. 3, 1952, Serial No. 636,160. Published Mar. 17, 1953. Class 35.

575,670. Sterling Silver and Sterling Silver Mounted Flatware and Table Cutlery. Towle Manufacturing Company, Newburyport, Mass.
Filed Oct. 7, 1952, Serial No. 636,317. Published Mar. 24, 1953. Class 28.

575,671. Sterling Silver Flatware. The R. Wallace & Sons Manfg. Co., Wallingford, Conn.
Filed Oct. 7, 1952, Serial No. 636,318. Published Mar. 17, 1953. Class 28.

575,672. Canned Apricots and Peaches. Flotill Products, Incorporated, Stockton, Calif.
Filed Oct. 10, 1952, Serial No. 636,472. Published Mar. 17, 1953. Class 46.

575,673. Textile Rugs and Carpets. Waite Carpet Co., Oshkosh, Wis.
Filed Oct. 14, 1952, Serial No. 636,618. Published Mar. 10, 1953. Class 42.

575,674. Linen-Weave All-Rayon Textile Fabric. Reliable Textile Company, Inc., New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,806. Published Mar. 10, 1953. Class 42.

575,675. Fabrics of Silk, Wool, Cotton, Man-Made Fibers, and Combinations Thereof. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,813. Published Mar. 17, 1953. Class 42.

575,676. Fabrics of Silk, Wool, Cotton, Man-Made Fibers, and Combinations Thereof. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,814. Published Mar. 17, 1953. Class 42.

575,677. Fabrics in the Piece of Combinations of Wool and Acrylic Fibers. Pacific Mills, Boston, Mass., and New York, N. Y.
Filed Oct. 22, 1952, Serial No. 636,996. Published Mar. 10, 1953. Class 42.

575,678. Wool Fabrics in the Piece. Ehiger Mills, Inc., New York, N. Y.
Filed Oct. 25, 1952, Serial No. 637,175. Published Mar. 10,,1953. Class 42.

575,679. Potassium Carbonate and Phenolphthalein. Howard Wong, doing business as European Coast Chemical House, New York, N. Y.
Filed Oct. 27, 1952, Serial No. 637,220. Published Mar. 17, 1953. Class 6.

575,680. Coat Front Interlining Material, Composed Essentially of Cotton and Rayon Yarns. The Kendall Company, Walpole, Mass.
Filed Oct. 28, 1952, Serial No. 637,280. Published Mar. 10, 1953. Class 42.

575,681. Sheets and Pillow Cases. The Springs Cotton Mills, Lancaster, S. C.
Filed Nov. 4, 1952, Serial No. 637,618 Published Mar. 24, 1953. Class 42.

575,682. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed Nov. 7, 1952, Serial No. 637,709. Published Mar. 24, 1953. Class 42.

575,683. Piece Goods Made of Wool, Silk, Cotton, Rayon, Artificial Fibers, and Mixtures Thereof. Guilford Woolen Mills Co., Guilford, Maine.
Filed Nov. 8, 1952, Serial No. 637,821. Published Mar. 24, 1953. Class 42.

575,684. Pillow Covers and Pillow Cases. Otis Griffith, Rowayton, Conn.
Filed Nov. 14, 1952, Serial No. 638,079. Published Mar. 24, 1953. Class 42.

575,685. Gall Bladder X-Ray Diagnostic Medium. Schering Corporation, Bloomfield, N. J.
Filed Nov. 26, 1952, Serial No. 638,666. Published Feb. 17, 1953. Class 18.

575,686. Chemotherapeutic Agent Used in the Treatment of Tuberculosis. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Dec. 4, 1952, Serial No. 638,953. Published Feb. 24, 1953. Class 18.

575,687. Color Compositions and Carriers Therefor, and Auxiliary Compositions Used in Conjunction Therewith, Particularly for Use in Printing Textiles. Aula Chemicals, Inc., Elizabeth, N. J.
Filed Dec. 9, 1952, Serial No. 639,203. Published Mar. 24, 1953. Class 6.

575,688. Preparation of Dihydrostreptomycin, Pectin, Kaolin, and Alumina, for Veterinary Use. Wyeth Incorporated, Philadelphia, Pa. Assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware.
Filed Dec. 9, 1952, Serial No. 639,257. Published Feb. 24, 1953. Class 18.

575,689. Medicinal Preparation of Conjugated Water-Soluble Estrogens Used in the Treatment of Menopausal Symptoms. Eli Lilly and Company, Indianapolis, Ind.
Filed Dec. 11, 1952, Serial No. 639,319. Published Feb. 24, 1953. Class 18.

575,690. Finely Divided Pigment Having a Variety of Uses in the Industrial Arts. C. K. Williams & Co., Easton, Pa.
Filed Dec. 11, 1952, Serial No. 639,355. Published Mar. 24, 1953. Class 6.

575,691. Automobile Tires. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 20, 1952, Serial No. 639,839. Published Mar. 17, 1953. Class 35.

575,692. Finely Divided Pigment Having a Variety of Uses in the Industrial Arts. C. K. Williams & Co., Easton, Pa.
Filed Dec. 24, 1952, Serial No. 640,026. Published Mar. 24, 1953. Class 6.

Service Marks

575,693. Underwriting of Insurance—Namely, Automobile Collision, Etc. Anchor Casualty Company, St. Paul, Minn.
Filed Sept. 2, 1949, Serial No. 584,378. Published Mar. 17, 1953. Class 102.

575,694. Leasing Machines and Equipment To Be Used in Treating Fruit and Vegetables To Control the Shrinkage Thereof During Shipment, Etc. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed Nov. 30, 1949, Serial No. 588,569. Published Mar. 17, 1953. Class 100.

575,695. Photographically Grouping and Shaping Letters for Advertising Layouts on a Job Basis. Sass-Wilson Studio, Los Angeles, Calif.
Filed Jan. 30, 1950, Serial No. 591,701. Published Mar. 24, 1953. Class 101.

575,696. Assisting Motorists and Owners of Motor Vehicles in Obtaining Emergency Automobile Repair and Towing Service. Automobile Association of New Jersey, Newark, N. J.
Filed Aug. 24, 1950, Serial No. 602,609. Published Mar. 24, 1953. Class 105.

575,697. Entertainment Services Presented by Means of an Integrated Series of Dramatic Radio Programs Broadcast From Time to Time. Mercedes Gardner and Jean Shannon Smith, Sacramento, Calif.
Filed Dec. 21, 1950, Serial No. 607,949. Published Mar. 24, 1953. Class 107.

575,698. Entertainment Service Rendered Through the Medium of an Audience Participation Television Broadcast Program in Which the Participants Are Selected From Those Children in an Audience Whose Birthdays Occur at Some Date Near the Date of the Program in Which They Participate. Lucille Bliss, San Francisco, Calif.
Filed Aug. 20, 1951, Serial No. 617,860. Published Mar. 17, 1953. Class 107.

575,699. Construction of New Buildings, and Repairing and Renovating Damaged or Partially Destroyed Buildings. Ted F. Merrill, doing business under the name and style of Ted F. Merrill and Sons, Inglewood, Calif.
Filed Mar. 13, 1952, Serial No. 626,398. Published Mar. 24, 1953. Class 103.

575,700. Acting as an Agency for Nationally-Known Periodical Magazine Publications, and for Soliciting Subscriptions to the Publications. McGregor Magazine Agency, Inc., Mount Morris, Ill.
Filed Apr. 10, 1952, Serial No. 627,895. Published Mar. 17, 1953. Class 100.

575,701. Entertainment Services—Namely, the Presentation of Television Programs, Principally for Children, in the Nature of a Musical Variety Show, Conducted Principally Through the Medium of Puppets. Rootie Kazootie, Inc., New York, N. Y.
Filed Apr. 24, 1952, Serial No. 628,651. Published Mar 24, 1953. Class 107.

575,702. Transportation of Passengers by Aircraft. Pan American World Airways, Inc., New York, N. Y.
Filed Sept. 4, 1952, Serial No. 634,858. Published Mar. 17, 1953. Class 105.

Collective Mark

575,703. Potatoes in Their Natural State. Little Kanawha Regional Council, Inc., Parkersburg, W. Va.
Filed Mar. 7, 1952, Serial No. 626,091. Published Mar. 17, 1953. Class 46.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

575,704. (Class 21. Electrical Apparatus, Machines, and Supplies.) Furnas Electric Company, Batavia, Ill. Original filed, act of 1946, Principal Register, Sept. 17, 1949; amended to application, Supplemental Register, Oct. 4, 1950, Serial No. 584,982.

SWITCHLET

For Electric Control Switches.
Claims use since Aug. 24, 1949.

575,705. (Class 12. Construction Materials.) James E. Stewart, Minneapolis, Minn. Original filed, act of 1946, Principal Register, Sept. 19, 1949; amended to application, Supplemental Register, Oct. 9, 1952, Serial No. 585,033.

LUM-BR-COTE

For Unit Package of Lumber Coated With a Plastic Material and Bound With Metal Strapping.
Claims use since Apr. 1, 1949.

575,706. (Class 26. Measuring and Scientific Appliances.) Hydroway Scales, Inc., Southfield Township, Oakland County, and Detroit, Mich. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, Feb. 8, 1952, Serial No. 590,367.

Hydroscale

For Weighing Scales.
Claims use since Oct. 28, 1948.

575,707. (Class 52. Detergents and Soaps.) Charles Goldstein, Syracuse, N. Y. Original filed, act of 1946, Principal Register, Apr. 17, 1950; amended to application, Supplemental Register, July 8, 1952, Serial No. 595,834.



The representation of the woman is fanciful. The drawing is lined for blue and brown.
For Soapless Lathering Shampoo Cream.
Claims use since June 1946.

575,708. (Class 46. Foods and Ingredients of Foods.) Frans Wyttenbach, doing business as West Side Dairy, Sauk City, Wis. Original filed, act of 1946, Principal Register, Apr. 21, 1950; amended to application, Supplemental Register, May 8, 1951, Serial No. 596,143.

Swistyle

For Cheese and Fresh Milk.
Claims use since Nov. 1, 1949.

575,709. (Class 26. Measuring and Scientific Appliances.) Phillip S. Sockett, Los Angeles, Calif. Original filed, act of 1946, Principal Register, June 24, 1950; amended to application, Supplemental Register, May 23, 1952, Serial No. 599,720.

EZY GRIP

For Leather Cases for Spectacles and Sunglasses.
Claims use since May 4, 1950.

575,710. (Class 26. Measuring and Scientific Appliances.) Sartorius-Werke Aktiengesellschaft, Gottingen, Germany. Original filed, act of 1946, Principal Register, Sept. 19, 1949; amended to application, Supplemental Register, Sept. 21, 1951, Serial No. 602,538.

Sartorius

Priority under Sec. 44(d). German application filed June 22, 1949, Reg. No. 604,305, dated Sept. 19, 1951.
For Micrometric Scales, Square Meter Scales, Beam Balances, Filament Sorting Scales, Yarn Number Rulers, Microtomes, and Microscopes.

575,711. (Class 46. Foods and Ingredients of Foods.) Ross Packing Co., Selah, Wash. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Dec. 22, 1951, Serial No. 610,099.

BAK-A-PIE

For Dehydrated Apples.
Claims use since Oct. 17, 1950.

575,712. (Class 34. Heating, Lighting, and Ventilating Apparatus.) National Cylinder Gas Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 10, 1951; amended to application, Supplemental Register, Oct. 9, 1952, Serial No. 611,140.

Sod-R-Braze

For Torches of the Type That Burn Fuel-Gas Mixtures, Torch Handles, Torch Tips and Outfits Including in Addition Thereto, Fuel Gas Regulators and Hose, Leak Detector Elements, Torch Lighters, and Wrenches.
Claims use since Aug. 15, 1950.

575,713. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Roto-Screen Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 13, 1951; amended to application, Supplemental Register, Mar. 8, 1952, Serial No. 611,240.

Reinke

For Printing Presses.
Claims use since May 18, 1950.

575,714. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Bailey Meter Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Apr. 27, 1951; amended to application, Supplemental Register, Mar. 23, 1953, Serial No. 613,208.

ARMORTUBE

For Assembly of a Plurality of Metallic Tubes Having a Continuous Retaining Sheath for Use Principally in Fluid Circuits.
Claims use since Apr. 12, 1951.

575,715. (Class 26. Measuring and Scientific Appliances.) Henderize, Inc., Sacramento, Calif. Original filed, act of 1946, Principal Register, May 7, 1951; amended to application, Supplemental Register, Oct. 7, 1952, Serial No. 613,591.

Rap-a-Coin

For Portable Apparatus Having a Number of Longitudinal Recesses Therein To Support Coins of Pre-Determined Diameters and Equipped With Gaging Means and Means To Facilitate Wrapping the Coins in Pre-Determined Quantities.
Claims use since Apr. 2, 1951.

575,716. (Class 46. Foods and Ingredients of Foods.) Henry and Henry, Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, June 5, 1951; amended to application, Supplemental Register, Apr. 22, 1952, Serial No. 614,773.

FUDGICE

For Chocolate Fudge Icing.
Claims use since Mar. 10, 1930.

575,717. (Class 46. Foods and Ingredients of Foods.) Juillard Fancy Foods Co., San Francisco, Calif. Filed June 25, 1951, Serial No. 615,646.

Fancifood

For Prepared Foods—Namely, Canned Shellfish; Smoked Oysters; Pickles; Gherkins; Sweet Pickled Watermelon Rind; Sweet Pickled Cantaloupe; Pepperoni Composed of Peppers, Vinegar and Salt; Pepperoncini Composed of Small Green Sweet Peppers in Vinegar; Wine Vinegar; Olive Oil; Crystallized Ginger; Ceylon Cinnamon; Maraschino Flavored Syrup for Food Purposes; Violet Syrup for Food Purposes; Toasted Rice Crackers; Cocktail Rice Chips; Cocktail Shrimp; Ginger in Grenadine; Mint Flavored Ginger; Welsh Rarebit; Fruit Cake Mix; Vanilla Beans; Jellies; Cheeses; Cream Cheese and Salmon Caviar; Salad Dressings; Horseradish; Prepared Mustard; Cocktail Sauce; Capers; Smoked Salt; Saffron; Canape Assortment Composed of Cucumbers, Onions, Cauliflower, Pimento, Sugar, Vinegar, and Spices.
Claims use since July 16, 1946.

575,718. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Horner & Robertson, Inc., Idaho Springs, Colo. Original filed, act of 1946, Principal Register, July 27, 1951; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 617,030.

RŌLON

For Anti-Skid Chains for Vehicle Tires.
Claims use since Feb. 9, 1951.

575,719. (Class 52. Detergents and Soaps.) Curt E. Abramowitz, doing business under the name of Perle Bright Manufacturing Co., Brooklyn, N. Y., now by judicial change of name Curtis M. Belmont. Original filed, act of 1946, Principal Register, Aug. 1, 1951; amended to application, Supplemental Register, June 17, 1952, Serial No. 617,179.

PERLEBRIGHT

For Laundry Washing Compound Developed for Use in Automatic Washing Machines.
Claims use since June 1, 1947.

575,720. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Remington Sewing Machine Manufacturing Co., Incorporated, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 4, 1951; amended to application, Supplemental Register, July 21, 1952, Serial No. 618,371.

Remington

Drawing is lined for gold.
For Sewing Machines.
Claims use since June 5, 1951.

575,721. (Class 6. Chemicals and Chemical Compositions.) Fluff-It Corporation, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Oct. 5, 1951; amended to application, Supplemental Register, Nov. 26, 1952, Serial No. 619,614.

fluff-it
rinse

The word "Rinse" is disclaimed.
For Textile Softeners in Liquid Form.
Claims use since Aug. 6, 1951.

575,722. (Class 19. Vehicles.) Rose-Derry Company, Newton, Mass. Original filed, act of 1946, Principal Register, Oct. 6, 1951; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 619,681.

TOUR-A-BED

For Infants' Car Bed and Seat.
Claims use since Jan. 11, 1951.

575,723. (Class 16. Protective and Decorative Coatings.) Anderson Mulder Company, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 13, 1951; amended to application, Supplemental Register, Sept. 16, 1952, Serial No. 619,962.

Chromseal

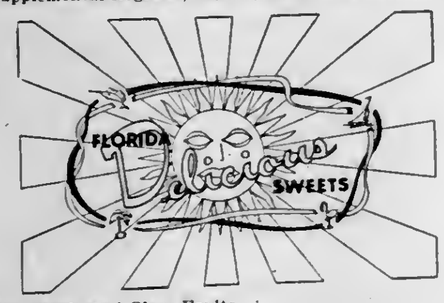
For Liquid Composition for Forming a Rust and Corrosive-Resistant Film Over Chrome Surfaces.
Claims use since Mar. 16, 1951.

575,724. (Class 18. Medicines and Pharmaceutical Preparations.) Ivo, Inc., West Bend, Wis. Original filed, act of 1946, Principal Register, Nov. 1, 1951; amended to application, Supplemental Register, Oct. 21, 1952, Serial No. 620,782.

QUIT-ITCH

For External Medicinal Preparation for the Relief of Skin Irritation and Itching.
Claims use since Sept. 1, 1951.

575,725. (Class 46. Foods and Ingredients of Foods.) Harry Bernstein, doing business as Harry's Candy Kitchen, Tampa, Fla. Original filed, act of 1946, Principal Register, Dec. 7, 1951; amended to application, Supplemental Register, Sept. 2, 1952, Serial No. 622,195.



For Candy and Glace Fruits.
Claims use since Aug. 10, 1951.

575,726. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Laher Spring and Tire Corporation, Oakland, Calif. Original filed, act of 1946, Principal Register, Feb. 15, 1952; amended to application, Supplemental Register, Mar. 26, 1953, Serial No. 625,016.

FREEWAY

For Automobile and Truck Pneumatic Tires.
Claims use since Jan. 22, 1952.

575,727. (Class 18. Medicines and Pharmaceutical Preparations.) Rosa L. Atkins, doing business as The Atkins Company, Fort Worth, Tex. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Jan. 29, 1953, Serial No. 625,089.

ATKINS

For Ointment for the Treatment of Minor Cuts and Skin Abrasions and Athlete's Foot.
Claims use since Oct. 1, 1943.

575,728. (Class 46. Foods and Ingredients of Foods.) Brecht Candy Company, Denver, Colo. Original filed, act of 1946, Principal Register, Feb. 25, 1952; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 625,454.

TRIPLE TREAT

For Chocolate-Peanut Candy Bars.
Claims use since Nov. 1, 1951.

575,729. (Class 22. Games, Toys, and Sporting Goods.) Shakespeare Company, Kalamazoo, Mich. Filed Mar. 13, 1952, Serial No. 626,425.

HONOR BUILT FOR OVER FIFTY YEARS

For Fishing Reels, Lines, and Artificial Fishing Lures.
Claims use since Sept. 1, 1949.

575,730. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Hiram H. Maynard, doing business as Grid Gard, Orlando, Fla. Original filed, act of 1946, Principal Register, Mar. 31, 1952; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 627,345.

GRID GARD

For Cooking Utensil Support in the Form of a Surface Plate for Covering the Heating Grid of a Range Cooking Unit.
Claims use since Mar. 12, 1952.

575,731. (Class 22. Games, Toys, and Sporting Goods.) Frederick S. O'Hara, Springfield, Ill. Filed Apr. 7, 1952, Serial No. 627,696.

THE OLD SETTLER

For Game Apparatus in the Form of a Miniature Log Cabin Having a Chimney Through Which a Coin or Token Is Dropped on a Deflector Plate.
Claims use since Feb. 3, 1951.

575,732. (Class 24. Laundry Appliances and Machines.) The American Laundry Machinery Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Apr. 10, 1952; amended to application, Supplemental Register, Mar. 27, 1953, Serial No. 627,858.

Trucleen

For Dry Cleaning Machine in Which Work Is Both Washed and Extracted.
Claims use since Aug. 18, 1951.

575,733. (Class 26. Measuring and Scientific Appliances.) Healthways, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 12, 1952; amended to application, Supplemental Register, May 5, 1953, Serial No. 628,001.

AQUA-PRO

For Swimming Masks Comprising an Optical Face Covering Equipped With Water Tight Mountings, and Goggles.
Claims use since Nov. 15, 1951.

575,734. (Class 4. Abrasives and Polishing Materials.) Willard G. Moore, Orlando, Fla. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, Mar. 4, 1953, Serial No. 628,116.

CRYSTAL Plastic GLAZE

For Automobile Polish.
Claims use since Apr. 1, 1939.

575,735. (Class 50. Merchandise Not Otherwise Classified.) Vulcan Rubber Products, Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, May 13, 1952; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 629,640.

COVERLIGHT

For Nylon Coated Material, in Sheet Form, Used as Tarpaulins and Protective Coverings for Industrial and Military Equipment.
Claims use since Mar. 17, 1952.

575,736. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Morden Machines Company, Portland, Oreg.. Filed June 7, 1952, Serial No. 630,900.

MORDEN
SLUSH MAKER

Applicant claims ownership of Registration No. 305,418.
For Machine for Pulping and Mixing Pulp and Other Paper Stock.
Claims use since on or about Apr. 15, 1951.

575,737. (Class 10. Fertilizers.) E. J. Wolf, doing business as Alaska Fertilizer Company, Seattle, Wash. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 632,056.

ALASKA
FISH FERTILIZER

The words "Fish Fertilizer" are disclaimed separate and apart from the mark as shown.
For Fish Fertilizers.
Claims use since on or about June 1, 1949.

575,738. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Ryman Engineering Company, Ellwood City, Pa. Original filed, act of 1946, Principal Register, Aug. 5, 1952; amended to application, Supplemental Register, Feb. 2, 1953, Serial No. 633,512.

Airstand

For Grinding and Polishing Machines of the Abrasive Belt Type.
Claims use since on or about Sept. 1, 1951.

575,739. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 2, 1952, Serial No. 638,832.



Applicant claims ownership of Registration No. 514,245.
For Perfume.
Claims use since Aug. 9, 1949.

575,740. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 2, 1952, Serial No. 638,833.



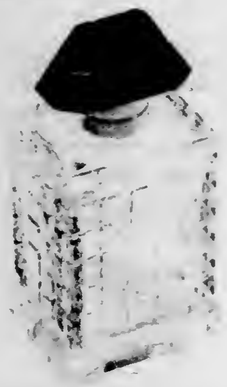
Applicant claims ownership of Registration No. 514,245.
For Perfume.
Claims use since Aug. 9, 1949.

575,741. (Class 22. Games, Toys, and Sporting Goods.) U. S. Specialties Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 2, 1952; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 638,885.

Tabby-Teezer

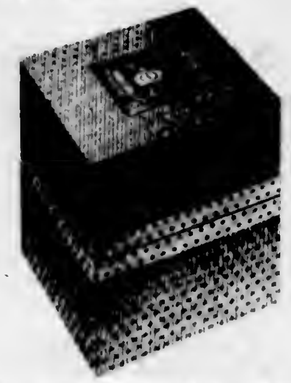
For Toys for Pets.
Claims use since July 15, 1951.

575,742. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 3, 1952, Serial No. 638,897.



The mark consists of a continuous band of equal squares, six squares deep, which encircles the bottle which contains the goods in conjunction with a continuous golden band of four sided figures, two figures deep, which encircle the bottle's stopper, and the golden top surface of the stopper, as shown in the accompanying drawing which is lined—as to said stopper—in gold.
For Perfume.
Claims use since Aug. 7, 1949.

575,743. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 3, 1952, Serial No. 638,898.



Applicant claims ownership of Registration No. 514,245.
For Perfume.
Claims use since Aug. 9, 1949.

575,744. (Class 39. Clothing.) Seymour J. Lourd, New York, N. Y. Filed Dec. 5, 1952, Serial No. 639,011.

Look Well in an Orwell

For Men's and Boys' Coats, Suits, Outer Shirts, Slacks, Trousers, Sport Shirts, Jackets, Beach Robes, Bath Robes, Lounging Robes, Outer Belts, Hats, Caps, Socks, Neckties, Bow Ties, Under Shirts, Under Shorts, Play Shorts, Bathing Trunks, Pajamas, Gloves and Shoes of Leather, Fabric, and Combinations Thereof, and Raincoats; and Ladies', Misses' and Girls' Coats, Suits, Dresses, Blouses, Halters, Outer Skirts, Slips, Brassières, Sweaters, Slacks, Pedal Pushers, Jackets, Beach Robes, Swimsuits, Pajamas, Negligees, Nightgowns, Gloves and Shoes of Leather, Fabric, and Combinations Thereof, and Raincoats.
Claims use since Apr. 16, 1951.

575,745. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 6, 1952, Serial No. 639,105.



The mark is the distinctive over-all configuration in gold of the bottle and stopper as a whole which contain the goods as shown in the accompanying drawing which is lined for gold.
For Perfume.
Claims use since Aug. 7, 1949.

575,746. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 6, 1952, Serial No. 639,106.



Applicant claims ownership of Registration No. 514,245.
For Perfume.
Claims use since Aug. 9, 1949.

575,747. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 9, 1952, Serial No. 639,207.



For Perfume.
Claims use since Aug. 9, 1949.

575,748. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 9, 1952, Serial No. 639,208.



The drawing is lined for gold. Applicant claims ownership of Registration No. 514,245.
For Perfume.
Claims use since Aug. 9, 1949.

575,749. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Jan. 21, 1953, Serial No. 641,014.



The mark consists, in combination, of a recessed monogram on the top of the box which contains the goods, a continuous black band which encircles said monogram and a narrow gold band which encircles said black band, two rows of black squares which encircle the front, back and sides of said box, two rows of recessed three dimensional gold bands each of which encircles one of said black squares, and the intersecting black bands which separate said recessed gold bands. Applicant claims ownership of Registration No. 514,245.
For Perfume.
Claims use since Aug. 9, 1949.

Service Mark

575,750. (Class 106. Material Treatment.) Chelsea Process, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 10, 1951; amended to application, Supplemental Register, Feb. 10, 1953, Serial No. 612,443.

CHELSEA

For Glazing Furs.
Claims use since Apr. 2, 1951.

TRADE-MARK REGISTRATIONS RENEWED

88,580. REPRESENTATION OF LEAF OF QUATREFOIL. Registered Oct. 1, 1912. Mettmanner Britanniawarenfabrik W. Seibel. Re-renewed Oct. 1, 1952, to W. Seibel, Mettmann, Germany, a limited liability company of Germany. Spoons and Forks of Other Than Precious Metal. Class 23.

89,315. "BPF" AND DESIGN. Registered Dec. 3, 1912. Geo. W. Wheelwright Paper Company, Boston, Mass. Re-renewed Dec. 3, 1952, to The Mead Corporation, Dayton, Ohio, a corporation of Ohio. Writing and Printing Paper and Bristol-Board. Class 37.

90,083. "AGAR-LAC" AND DESIGN. Registered Feb. 4, 1913. Agar-Lac, Inc. Re-renewed Feb. 4, 1953, to Etna Chemical Company, Inc., New York, N. Y., a corporation of New York. Constipation Remedy, a Laxative and Intestinal Antiseptic. Class 18.

91,343. SEDOBROL. Registered Apr. 29, 1913. The Hoffmann-La Roche Chemical Works, New York, N. Y. Re-renewed Apr. 29, 1953, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. Bromin Compound Used as a Sedative in Nervous Affections, Epilepsy, and Related Disorders. Class 18.

91,367. "BUFFALO" AND DESIGN. Registered Apr. 29, 1913. Willis Norton & Co., Topeka, Kans. Re-renewed Apr. 29, 1953, to The Willis Norton Company, Wichita, Kans., a corporation of Kansas. Wheat-Flour. Class 46.

91,703. "ARMADA" ETC. AND DESIGN. Registered May 20, 1913. Geo. G. Sandeman Sons & Co. Limited, London, England, an incorporated company organized under the laws of Great Britain. Re-renewed May 20, 1953. Sherry Wine Class 47.

92,660. E-CUT. Registered July 22, 1913. E. Emmers & Co. Re-renewed July 22, 1953, to "E-Cut" Knitting Mills, Inc., Royersford, Pa., a corporation of Pennsylvania. Women's Undervests. Class 39.

92,839. CLYVALETTE. Registered July 29, 1913. Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Re-renewed July 29, 1953. Cylinder-Oil, Engine-Oil, and Gas-Engine Oil. Class 15.

295,054. LILY-ART. Registered June 14, 1932. Louis Follman. Renewed June 14, 1952, to Skaller Supply Co., New York, N. Y., a partnership. Mixed Paint, Varnish, Prepared Shellac, and Paint Enamels. Class 16.

295,415. "RIVA BROTHERS" ETC. AND DRAWING. Registered June 28, 1932. Riva Hermanos. Renewed June 28, 1952, to Angel de la Riva Resines, doing business as Riva Hermanos Sucr., Malaga, Spain. Olive Oil. Class 46.

299,649. "FIXZIT" AND DESIGN. Registered Dec. 13, 1932. Frank J. Bentz, doing business as Fixzit System, Miami, Fla. Renewed Dec. 13, 1952, to Fixzit System, Incorporated, Columbus, Ohio, a corporation of Florida. Compound for Stopping Boiler Leaks, a Compound for Cleaning Waste Matter From Pipes, Etc. Class 52.

300,894. DIAMOND-SHAPED DESIGN. Registered Feb. 14, 1933. Deutsche Gold- und Silber Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C. and renewed to him Feb. 14, 1953. Astringents, Astringent Cerates, Bleach Creams, Etc. Class 51.

301,053. „PHOTADYNA". Registered Feb. 14, 1933. Nordmark-Werke G. m. b. H., Hamburg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 14, 1953. Medicinal Preparations for the Causative Treatment of Melancholia and Depression. Class 18.

301,116. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Bristles, Sponges, Ores, Sand, Etc. Class 1.

301,289. GOVERNOR. Registered Feb. 21, 1933. Bloch Bros. Renewed Feb. 21, 1953, to A. Gillies & Co. (Distillers) Limited, Glasgow, Scotland, a company registered under the laws of the United Kingdom of Great Britain and Northern Ireland. Port Wine. Class 47.

301,390. CHILY BEAR. Registered Feb. 28, 1933. Pac-Kups Incorporated. Renewed Feb. 28, 1953, to Dixie Cup Company, Easton, Pa., a corporation of Delaware. Containers of Paper or Cardboard-Like Material for Frozen Confections. Class 2.

301,565. PENT HOUSE FROCKS. Registered Mar. 7, 1933. Bloomingdale Bros. Inc. Renewed Mar. 7, 1953, to Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware. Women's and Misses' Dresses. Class 39.

301,594. FCC. Registered Mar. 7, 1933. The Forging and Casting Corporation, Ferndale, Mich. Renewed Mar. 7, 1953, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Alloy Steel Castings, Smooth Hammered Forgings, and Electrically Welded Composite, Etc. Class 14.

301,595. "FCC" AND DESIGN. Registered Mar. 7, 1933. The Forging and Casting Corporation, Ferndale, Mich. Renewed Mar. 7, 1953, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Alloy Steel Castings, Smooth Hammered Forgings, and Electrically Welded Composite, Etc. Class 14.

301,596. FERNITE. Registered Mar. 7, 1933. The Forging and Casting Corporation, Ferndale, Mich. Renewed Mar. 7, 1953, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Alloy Steel Castings, Smooth Hammered Forgings, and Electrically Welded Composite, Etc. Class 14.

301,764. OUTSERTS. Registered Mar. 14, 1933. Outserts, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 14, 1953. Labels Sold to the Trade as Such. Class 37.

301,800. "BOLTALITE" AND DESIGN. Registered Mar. 14, 1933. Bolta Rubber Co., Inc. Renewed Mar. 14, 1953, to The Bolta Company, Lawrence, Mass., a corporation of Massachusetts. Composition Sheet Material Made of Rubber, Acetate-Cellulose, or Other Non-Inflammable Moldable Compounds. Class 50.

301,941. WEATHERMAN. Registered Mar. 21, 1933. Julien P. Friez & Sons, Inc. Renewed Mar. 21, 1953, to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware. Weather Direction Transmitter, Anemometer, Wind Direction Indicators, Wind Velocity Indicators, Etc. Class 26.

301,985. GABAIL. Registered Mar. 21, 1933. Gabail Limited, London, England, a company incorporated under the laws of Great Britain. Renewed Mar. 21, 1953. Medicines for Human Use in the Treatment of Whooping Cough, Nervous Diseases, Neurasthenia, and Insomnia. Class 18.

302,351. "NAVY SPECIAL" ETC. AND DESIGN. Registered Apr. 11, 1933. Baltimore Belting Company. Renewed Apr. 11, 1953, to Baltimore Belting Company, Baltimore, Md., a firm. Leather Belting. Class 35.

302,757. "KESTER" AND REPRESENTATION OF LABEL. Registered Apr. 25, 1933. Kester Solder Company, Chicago, Ill., a corporation of Illinois. Renewed Apr. 25, 1953. Soldering Fluxes. Class 6.

302,846. "KESTER" AND REPRESENTATION OF LABEL. Registered May 2, 1933. Kester Solder Company, Chicago, Ill., a corporation of Illinois. Renewed May 2, 1953. Soldering Fluxes. Class 6.

302,848. "KESTER" AND REPRESENTATION OF LABEL. Registered May 2, 1933. Kester Solder Company, Chicago, Ill., a corporation of Illinois. Renewed May 2, 1953. Solder. Class 14.

303,303. PALM. Registered May 23, 1933. Gillette Safety Razor Company. Renewed May 23, 1953, to The Gillette Company, Boston, Mass., a corporation of Delaware. Safety Razors and Safety Razor Blades. Class 23.

303,072. REPRESENTATION OF PIECE OF DENTAL WIRE WITH WHITE TIPPED END. Registered June 6, 1933. Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Renewed June 6, 1953. Dental Wire Composed of an Alloy of Precious Metals. Class 44.

303,684. AIR-FLEX. Registered June 6, 1933. A. S. Beck Shoe Corporation, New York, N. Y., a corporation of New York. Renewed June 6, 1953. Boots, Shoes, and Slippers, Made Wholly or in Part of Leather and Fabric. Class 39.

303,923. TAKALAB. Registered June 13, 1933. Takamine Laboratory, Inc., Clifton, N. J., a corporation of New York. Renewed June 13, 1953. Cleansing Compound Especially Useful for Cleaning Fabrics and the Like. Class 52.

303,930. HYDROMATIC. Registered June 13, 1933. The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a corporation of West Virginia. Renewed June 13, 1953. Brakes for Hoists and Well Rigs. Class 23.

304,576. HIT-A-FLY. Registered July 11, 1933. John Lecroy & Son, Camden, N. J., a firm. Renewed July 11, 1953. Insecticides. Class 6.

305,057. GUARDIAN. Registered July 25, 1933. The Pure Oil Company, Chicago, Ill., a corporation of Ohio. Renewed July 25, 1953. Lubricating Oils. Class 15.

305,094. "BRILLO" ETC. AND REPRESENTATION OF CARTON LINED FOR RED AND GREEN. Registered Aug. 1, 1933. Brillo Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York. Renewed Aug. 1, 1953. Cleaning, Scouring and Polishing Wads, Pads, Rolls, and Cloths of Abradant Nature for Removing Foreign Matter From Metal and Other Surfaces. Class 4.

305,354. LEXTRON. Registered Aug. 15, 1933. Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana. Renewed Aug. 15, 1953. Special Liver-Stomach Interaction Product, Iron Ammonium Citrate, Green, and B Vitamin Concentrate. Class 18.

305,632. BROADVEL. Registered Aug. 22, 1933. Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware. Renewed Aug. 22, 1953. Pile Fabrics in the Piece. Class 42.

305,702. SWEEPSTAKES. Registered Aug. 22, 1933. Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Renewed Aug. 22, 1953. Hats for Men and Women. Class 39.

305,708. CAVART. Registered Aug. 22, 1933. Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Renewed Aug. 22, 1953. Hats for Men and Women. Class 39.

305,894. METYCAINE. Registered Aug. 29, 1933. Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana. Renewed Aug. 29, 1953. Local Anesthetic, Put Up in Ampoules, Tablets, and Solution. Class 18.

305,916. "RAYTHEON" AND DESIGN. Registered Aug. 29, 1933. Raytheon Production Corporation. Renewed Aug. 29, 1953, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware. Electrical Space Discharge Tubes. Class 21.

306,321. "PENMETAL" ETC. AND DESIGN. Registered Sept. 12, 1933. Penn Metal Company. Renewed Sept. 12, 1953, to Penn Metal Company, Inc., Boston, Mass., a corporation of Delaware. Metal Laths, Metal Corners, Metal Corner Beads, Etc. Class 12.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

570,640. DAREX AEA. Registered Feb. 17, 1953. Dewey and Almy Chemical Company, Cambridge, Mass. Chemical Composition Useful for Increasing the Air Content of Concrete and Mortar and for Enhancing the Grindability of Cement Clinkers. Class 6. Corrected as follows: In the statement, column 1, line 10, description of merchandise, after "MORTAR" insert *AND*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 91,212. Registered Apr. 22, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

HYDRO CARBONATED BONE BLACK

For Bone Black.
Claims use since 1874.

Reg. No. 381,788. Registered Oct. 8, 1940. Classified in Class 16.) The White Sea & Baltic Company, P. & I. Danischewsky, Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.
See this number in Class 16 for goods and mark.
Claims use since 1938.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 381,788. Registered Oct. 8, 1940. (Classified in Class 16.) The White Sea & Baltic Company, P. & I. Danischewsky, Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.
See this number in Class 16 for goods and mark.
Claims use since 1938.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 300,949. Registered Feb. 14, 1933. United States Rubber Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.

DURITE

For Rubber Flooring Made Principally of Rubber, Vulcanizing and Curing Ingredients, and Pigments.
Claims use since Sept. 2, 1930.

Reg. No. 301,395. Registered Feb. 28, 1933. Danville Brick Company, Danville, Ill. Republished by The Waylite Company, Chicago, Ill., a corporation of Illinois.

WAYLITE

For Building Block, Building Brick, and Other Unit Shapes and Articles Manufactured in Whole or in Part From Slag, for Masonry Cement and Mortar, and Aggregate for Concrete of All Types When Made in Whole or in Part of Furnace Slag.
Claims use since Apr. 23, 1931.

Reg. No. 398,078. Registered Oct. 6, 1942. The F. C. Russell Company, Cleveland, Ohio. Republished by The F. C. Russell Company, Cleveland, Ohio, a corporation of Ohio.

RUSCO

For Storm Windows, Combination Screen and Storm Windows, Jalousies, and Awnings of Metal, Particularly Venetian Awnings for Outside Use.
Claims use since Mar. 12, 1937.

CLASS 15

OILS AND GREASES

Reg. No. 90,889. Registered Apr. 1, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

VIM

For Lubricating Oils.
Claims use since 1875.

Reg. No. 300,909. Registered Feb. 14, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

EFHCO

For Lubricating Greases.
Claims use since May 25, 1932.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 381,788. Registered Oct. 8, 1940. The White Sea & Baltic Company, P. & I. Danischewsky, Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.

SUPIN

For Raw or Partly Prepared Vegetable, Animal, and Mineral Substances Used in Manufacture, of Turpentine, Pine Oil, Rosin and Liquid Rosin Sold for Use as Ingredients in Paints and Painters' Materials.
Claims use since 1938.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 301,418. Registered Feb. 28, 1933. Larus & Brother Company, Richmond, Va., a corporation of Virginia. Republished by registrant.

PARROT

For Smoking Tobacco and Cigarettes.
Claims use since the year 1889.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 303,052. Registered May 9, 1933. Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

CHAMPION

For Saws.
Claims use since June 1869.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 301,934. Registered Mar. 21, 1933. United States Rubber Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.

HY TEST

The terms "Hy" and "Test" are disclaimed apart from the mark as shown.
For High Pressure Hose Made of Rubber, Fibre, and Metallic Reinforcement.
Claims use since Sept. 17, 1931.

CLASS 37

PAPER AND STATIONERY

Reg. No. 352,405. Registered Nov. 30, 1937. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

babette

For Paper Tissues in the Form of Handkerchiefs, Towels, Drying Sheets, and Face Wipers.
Claims use since about Mar. 2, 1937.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 302,742. Registered Apr. 25, 1933. Alpine Ice Cream Co. Inc., Corona, N. Y. Republished by Bungalow Bar Corporation of America, New York, N. Y., a corporation of New York.

BUNGALOW BAR

The word "Bar" is disclaimed apart from the mark as shown.
For Ice Cream.
Claims use since Apr. 14, 1932.

Reg. No. 304,007. Registered June 13, 1933. Fred Sanders, Detroit, Mich., a corporation of Michigan. Republished by registrant.

Sanders

For Candy, Ice Cream, Noodles, Coffee, Tea, Maple Syrup, Mayonnaise, Nuts (Shelled and Salted), Pastries, Sandwich Dressing, Glacé Fruits, French Dressing, Ice Cream Cones and Potato Chips, Bread, Rye Bread, Cake and Fruit Cake, Biscuits, Doughnuts, Raisins, Bon Bons, Peanuts, and Mustard.
Claims use since June 1, 1875.

CLASS 47

WINES

Reg. No. 404,512. Registered Nov. 30, 1943. Michigan Wineries, Inc., Paw Paw, Mich., a corporation of Michigan. Republished by registrant.

Rosalie

For Wine.
Claims use since Aug. 1, 1939.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 138,572. Registered Jan. 4, 1921. Bass, Ratcliff & Gretton, Limited, Burton-Upon-Trent, England, a company organized under the lawa of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.



For Pale Ale and Beer.
Claima use since 1850.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 300,949. Registered Feb. 14, 1933. (Classified in Class 12.) United States Rubber Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.
See this number in Class 12 for goods and mark.
Claims use since Sept. 2, 1930.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 301,389. Registered Feb. 28, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

SOLVOLUBRIC

For Liquid Filter Soaps for Dry Cleaners.
Claims use since July 2, 1930.

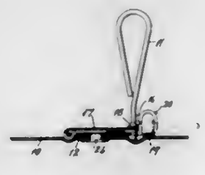
REISSUES

JUNE 9, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,666
KEY SUPPORT

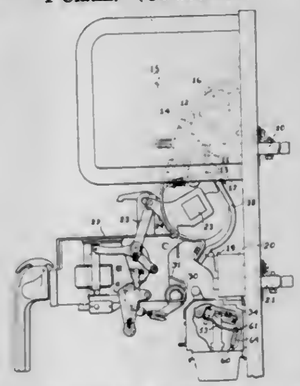
Robert C. Legat, New Britain, and Emilio Baretta, Kensington, Conn., assignors to The G. E. Prentice Mfg. Co., Kensington, Conn., a corporation of Connecticut
Original No. 2,606,438, dated August 12, 1952, Serial No. 83,182, March 24, 1949. Application for reissue February 17, 1953, Serial No. 337,453
9 Claims. (Cl. 70—456)



2. A key support for a key case or the like, comprising a supporting plate having in its upper part a bead-like forwardly projecting portion and a plurality of openings extending transversely of said bead-like portion and having enlarged portions adjacent to the line of juncture of said bead-like portion with the body of said supporting plate, the enlarged portions of said slots being of a size to permit the passage therethrough of the heads of key hooks, a retainer plate overlying said supporting plate below the bead-like portion of the latter, hinge means pivotally connecting said retainer plate to said supporting plate, the upper portion of said retainer plate normally blocking the removal of key hook heads through the enlarged slot portions and being movable from its normal position inwardly towards said supporting plate to permit passage of the heads through such enlarged slot portions, spring means mounted on said supporting plate and positioned intermediate the latter and said retainer plate, said spring means maintaining said retainer plate in its normal position and yieldingly resisting movement of said retainer plate towards said supporting plate, and stop means for limiting the outward movement of said retainer plate under the influence of said spring means.

23,667
RESONANT SILENCER

Carl Thumim, Yeadon, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Original No. 2,585,600, dated February 12, 1952, Serial No. 68,831, January 3, 1949. Application for reissue February 11, 1953, Serial No. 336,465
1 Claim. (Cl. 200—91)



In a circuit breaker for use in a circuit carrying cyclically pulsating current having a pair of cooperable contacts, a trip magnet responsive to predetermined currents for effecting disengagement of said contacts, said magnet having an armature, said armature having [movement] *vibration* in response to less than said predetermined currents, a calibrated biasing means for restraining said armature for movement to full trip position only in response to energization of said magnet by said predetermined current and a resonant inertia member attached to said armature and having the same period of vibration as said [cyclically pulsating current] *armature*, said inertia member comprising a double pronged leaf spring secured to said armature at one end and having legs at the other end and a plurality of weights secured to said legs, the connection of said inertia member to said armature being such that said inertia member vibrates out of phase with said armature, and restrains movement of said armature at currents less than said predetermined currents.

PLANT PATENTS

GRANTED JUNE 9, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,192
ROSE PLANT

Francis Meilland, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa., a corporation of Pennsylvania

Application June 11, 1952, Serial No. 293,031
In France September 24, 1951
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by the length of its pointed buds and by the habit of development of the flowers with a long-pointed, closed center which is retained through successive stages of the opening bloom while the outer petals develop a symmetrically circular outline around that center, by the unique coloring of its flowers, by the unusual, pearly delicacy of their light and intricately blended colors, in combination with its sound plant qualities, altogether making the variety an ideal exhibition rose.

1,193
ROSE PLANT

Francis Meilland, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa., a corporation of Pennsylvania

Application June 11, 1952, Serial No. 293,032
In France September 24, 1951
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the large-flowered hybrid polyantha class, substantially as herein shown and described, characterized particularly as to novelty by the relatively fixed, persistent, brilliant, uniform Spectrum Red coloring of its buds and blooms in their different stages of development, by the semi-double and clustered habit of growth of its blooms, by the relatively flattened form of its open blooms, by the long-lasting quality of its blooms without tendency to fade, and combined with the best characteristics of other varieties of its class in respect to hardiness, vigor, disease resistance and freedom of bloom.

PATENTS

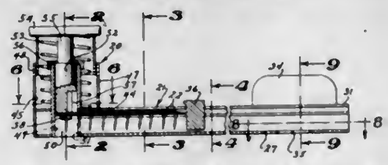
GRANTED JUNE 9, 1953

GENERAL AND MECHANICAL

2,640,985
THUMBTACK APPLICATOR

Karl Bygbjerg, San Francisco, Calif.

Application March 22, 1949, Serial No. 82,836
5 Claims. (Cl. 1—46)

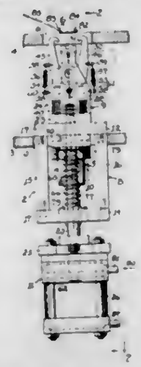


1. In a tack driver, the combination of an applicator head section, a magazine section for carrying a series of tacks in overlapping head relationship with the head of the foremost tack partially underlying the head of a subsequent head of the series, a discharge throat connected to one end of said magazine section and located in said applicator head section, a feeder member for urging said series of tacks from the magazine section to said discharge throat, a stop for the head of the forward one of said series of tacks, said stop being defined by a wall of said discharge throat, and an applicator member reciprocable in said throat, the lower surface of said applicator member being shaped so as to contact the upper surface of the head of only the forward one of said series of tacks.

2,640,986
CLINCHING APPARATUS

Svend G. Blumensaadt, Beachwood Village, Edward H. Gutzman, Parma, and William H. Neely, Cleveland, Ohio, assignors to Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio

Application May 26, 1950, Serial No. 164,398
6 Claims. (Cl. 1—224)

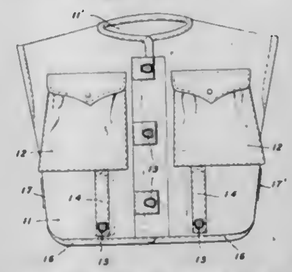


1. In a pneumatically actuated clinching device a supporting frame, a clinching assembly including a housing and a clinching arrangement yieldably shiftably mounted in said housing, pneumatic cylinder means embodying a cylinder and a piston, and a lost-motion coupling connecting the piston of said pneumatic cylinder means with said clinching arrangement, the cylinder of the pneumatic piston means being rigidly connected to said housing by elongated members extended through and guided by said supporting frame and said lost-motion coupling being formed by aligned members shiftably interengaged for limited movement with respect to each other, one of said members being attached to said piston and spring-supported in said frame to yieldingly shift said member to a predetermined position in said frame, and the other one of said members being attached to the clinching arrangement, said pneumatic cylinder means adapted to successively effect by its coupling connection with said housing and said clinching arrangement shifting of such housing and actuation of said clinching arrangement.

2,640,987
ARMORED GARMENT

Russell W. Ehlers, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Army

Application June 2, 1952, Serial No. 291,366
29 Claims. (Cl. 2—2.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



16. Armored garment for protecting the human torso, comprising outer, intermediate and inner layers of woven high tenacity elongatable plastic textile material of a configuration substantially resembling a Y, the oblique portions of said Y extending over the front of the torso and meeting in a fly front and the straight portion of said Y extending over the back of the torso and joined to said front portions along the sides of the torso, said layers being resin spot-laminated, the spot laminations of said outer, intermediate and inner layers being transversely aligned, and the spot-laminations in the front and back portions of said armored garment being of large dimensions and arranged in spaced rows extending over substantial portions of the area of said garment, the interstices between said spot-laminations in said rows being less than

the maximum linear dimensions of said last-mentioned spot-laminations; whereby said garment is rendered flexible.

2,640,988
EYEGLASS GLARE SHIELD ATTACHMENT
Elbridge R. Poole, Booneville, Ind.
Application August 22, 1951, Serial No. 243,051
2 Claims. (Cl. 2—13)



1. In an eyeglass shield, an opaque body curved to fit over the upper edge of an eyeglass frame, a depending clamping member formed on one edge of said body, a tubular housing secured to the opaque body opposite to said depending member, a slidable gripping member mounted in the tubular housing cooperating with the depending member in gripping the upper edge of the eyeglass frame, and a spring mounted within the tubular housing engaging said gripping member normally biasing said gripping member towards said depending member, gripping the eyeglass frame.

2,640,989
LIMB PROTECTOR OR GUARD
James Michael Woodward, Johannesburg, Transvaal, Union of South Africa, assignor to Eureka Rubber Co. (North) Limited, Johannesburg, Transvaal, Union of South Africa
Application May 22, 1951, Serial No. 227,598
In the Union of South Africa June 1, 1950
5 Claims. (Cl. 2—22)



1. A limb protector comprising separate and arcuately shaped guards for the upper and lower parts of a limb, an arcuately shaped resiliently extensible member connecting said guards together and transverse corrugations formed in said extensible member having a depth increasing from the sides of said member to the centre thereof.

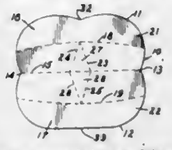
2,640,990
OVERALL WITH STRAP ARRANGEMENT
Torry Hill Orenge, Jersey City, N. J.
Application December 5, 1951, Serial No. 260,010
2 Claims. (Cl. 2—80)

2. A garment comprising trousers and a vest integral with said trousers, said vest having a pair of front portions extending upwardly to form shoulder portions, and projecting rearwardly of the shoulder portions to form back portions, each of said back portions terminating in a tubular member, a strap having one end thereof fastened to the rear part of said trousers and its other end attachable to and detachable



from said trousers at a plurality of locations on said strap, and said strap having its median portion passing slidably through both of said tubular members.

2,640,991
LIP SHIELD
Roman J. Ernst, Detroit, Mich.
Application October 30, 1948, Serial No. 57,516
3 Claims. (Cl. 2—174)



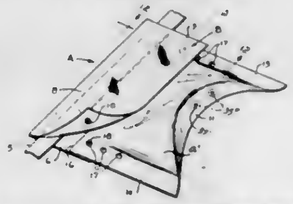
3. A lip shield comprising a blank of sheet material shaped to provide a pair of spaced apart lip protecting members along opposite edge portions of the blank and a central portion between said lip protecting members, the inner longitudinal edges of said lip protecting members forming the connecting edges between said lip protecting members and said central portion, said blank being scored along said connecting edges, said central portion being scored along a central line spaced substantially midway between said connecting edges to permit folding of the central portion flat upon itself, said central portion being provided with at least two additional pair of score lines, each pair of score lines extending in opposite directions from said central score line and the score lines in each pair converging at a point on said connecting edges to form triangularly shaped portions on opposite sides of said central score line, said triangularly shaped portions being in substantial juxtaposition when the central portion is folded flat upon itself along said central score line.

2,640,992
POCKET-CONTAINING HEADGEAR
Kenneth Hassler, Bronx, N. Y.
Application May 16, 1951, Serial No. 226,604
4 Claims. (Cl. 2—199)



1. A headgear having a headband having a front portion and a rear portion and a pocket visor secured to the front portion of the headband and adapted to lie adjacent the forehead, said pocket visor comprising an upper visor shield, a lower visor shield, both of said shields having curvatured front edges, and a front spacer connecting said front edges of said shields by conventional means and in spaced relationship.

2,640,993
SHOULDER PAD STRUCTURE
Jacob L. Kleinman, New York, N. Y.
Application June 23, 1947, Serial No. 756,369
4 Claims. (Cl. 2—268)



1. A shoulder pad structure comprising a filler and a cover for said filler, said filler provided with channeled portions, the roof of said channeled portions provided with apertures, the said cover provided with openings, the said openings adapted to permit the flow of air into the said cover and through the said channeled portions and also through the said apertures thereby facilitating the circulation of air within the said pad structure.

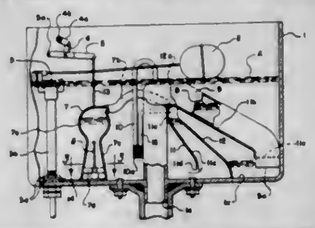
2,640,994
SWITCH FOR OPERATING ARTIFICIAL LIMBS
Samuel W. Alderson, New York, N. Y.
Original application July 10, 1948, Serial No. 38,018. Divided and this application May 17, 1951, Serial No. 226,881
7 Claims. (Cl. 3—1.1)



1. Control mechanism for artificial arms of the character described comprising an inner sole adapted to be inserted in one of the shoes of an amputee, said inner sole being formed of non-conducting material, a contact plate disposed on the underneath side of said sole, a second contact plate disposed on the upper side of said sole and overlying said first mentioned plate, said upper contact plate being adapted to underlie one of the toes of the amputee, there being an aperture formed in said sole, a contact plug secured to one of said plates and in register with said aperture, said contact plug normally being maintained out of electrical contact with said other plate but being adapted to pass through said aperture and engage the latter and form an electrical contact therewith upon the application of pressure to said upper plate by the toe of the amputee.

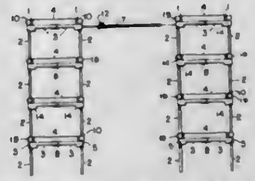
2,640,995
COMPRESSIBLE FLUID CONTROL MEANS FOR TOILET FLUSH TANKS
Frank E. Wilt, San Diego, Calif.
Application October 30, 1950, Serial No. 192,862
6 Claims. (Cl. 4—43)

1. A tank, an outlet for said tank, a siphon tube extending upwardly into said tank from said outlet and communicating therewith, the opposite end of said siphon tube being slightly spaced from the lower interior of said tank, air and water conductor means communicating with said opposite end of said siphon tube having an air compression chamber at the uppermost portion thereof above the lower end of said siphon tube spaced from the bottom of said tank, the opposite end of said air and water conducting passage means communicating with the interior of said tank near the lower portion thereof, a vertically movable air chamber in said tank open



at its bottom portion and communicating with the interior of said air compression chamber at its upper portion, means for admitting water into said tank and maintaining the same at a predetermined level preliminary to flushing, a siphon vent tube communicating with the interior of said siphon tube near its uppermost portion and extending downwardly into spaced relationship with the bottom of said tank slightly above the terminus of said opposite end of said siphon tube.

2,640,996
STACKING COT AND LITTER CONSTRUCTION
Frank L. Davis, College Point, N. Y.
Application January 23, 1951, Serial No. 207,250
6 Claims. (Cl. 5—8)

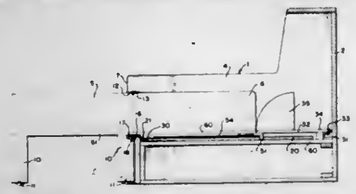


3. A litter as herein disclosed and comprising side bars, flexible body supporting material carried by said side bars, spreader bars hingedly connected together and hingedly connected with said side bars, legs pivotally supported on said side bars for lowering into litter supporting position and interlocking means for connecting the legs in lowered relation with the spreader bars for releasably securing said spreader bars in extended relation and said pivoted legs in lowered, supporting position.

2,640,997
CONVERTIBLE COUCH BED
Isabel Hoopingarner, Dallas, Tex.
Application February 26, 1947, Serial No. 731,017
7 Claims. (Cl. 5—47)

1. Combined couch-bed comprising a relatively fixed frame including an upright rear member and spaced end members extending forwardly from said rear member, cooperating seat and seat back units forming a seat when angularly disposed and a bed when in a common plane, said seat unit being floor supported independently of said fixed frame, nesting therein between said end members and reciprocable toward and away from said rear

member, said frame including an intermediate horizontal support for said seat back unit, the latter unit having a normal upright position in which it is supported by said rear member, said seat back unit being freely slidable forwardly relative to said horizontal support while upright,



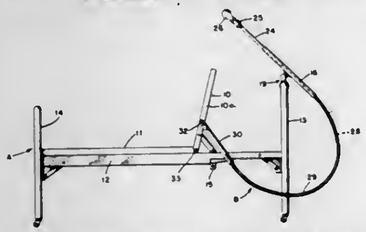
to a position in spaced relation to said rear member, means for rocking said seat back unit to a rearwardly inclined position while so spaced from said rear member, and means for forcing said seat back unit forwardly as it approaches the position of common planiform relationship to said seat unit.

2,640,998

ADJUSTABLE BED LAMP

Clifford R. Myre, Paynesville, Minn.

Application April 27, 1949, Serial No. 89,955
5 Claims. (Cl. 5—92)



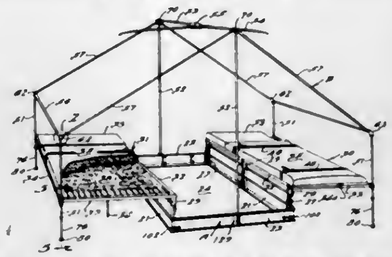
1. An adjustable lamp structure for a bed having a tiltably adjustable back-rest, an end frame adjacent thereto and a stationary part beneath said back-rest, said structure comprising a tubular guide, means for universally adjustably supporting said guide on the end frame of the bed in an overhead position extending generally lengthwise of the bed, a plunger-like mounting slidable in said tubular guide and projecting at its forward end from the forward end of said tubular guide, a lamp carried by said mounting at its said forward end, a tubular element including a flexible conduit connected at one end thereof with said tubular guide at its rear end in continuation thereof and a tubular coupling adapted to be pivotally attached at one end thereof to the back-rest of the bed in a depending position, said coupling being attached at its other end to the other end of said conduit and constituting an extension thereof, said coupling having therein a slot longitudinally thereof, an anchoring post adapted to be secured to said stationary part of the bed and slidably received in said slot in said coupling, and a push-pull wire contained within said tubular guide, flexible conduit and coupling, one end of said wire being connected with said mounting at the rear end thereof and the other end of said wire being adapted to be connected with said anchoring post, the distance measured along the axis of said tubular element between said anchoring post and guide varying with movement of the back-rest when the lamp structure is connected for use, whereby, upon the upward tilting of the back-rest, the mounting is caused to be advanced in said guide and, upon the downward tilting of said back-rest, said mounting is caused to be retracted in said guide.

2,640,999

PORTABLE BED AND HOUSING STRUCTURE

William L. Sheppard, Romulus, Mich.

Application August 24, 1949, Serial No. 112,165
12 Claims. (Cl. 5—113)



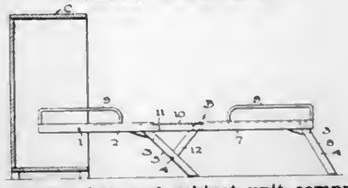
8. A portable, collapsible, housing structure comprising a box-like container having rigid side and end walls and a flexible bottom wall, a flexible canopy connected to the periphery of said container adapted to provide collapsible side, end and top walls of the housing structure when the housing structure is in erected position, a knock-down canopy supporting framework connected to the canopy and the container, a bed unit movably mounted on said container for movement from a position within said container in face-to-face engagement with said bottom wall to a position outside said container substantially parallel to said container bottom wall and means to support said bed unit in said position outside said container.

2,641,000

FOLDING BED AND CABINET UNIT

Karl Ossian Enewold Jönsson, Stockholm, Sweden

Application May 16, 1947, Serial No. 748,488
In Sweden April 2, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 2, 1966
3 Claims. (Cl. 5—155)



1. A folding bed and cabinet unit comprising a cabinet structure having a front opening; a bed including pivotally interconnected inner, intermediate, and outer bed frame members, said inner frame member being pivotally mounted within the cabinet for rotation about a transverse horizontal axis; a supporting leg eccentrically pivoted by a corner of one end on each of opposite outer end portions of said inner frame member to accommodate inward pivotal movement toward the undersurface of said inner frame member and to limit pivotal movement in the opposite direction by engagement of the other corner of said end with the undersurface of said inner frame member; a transverse brace

interconnecting said supporting legs intermediate their lengths; a strut eccentrically pivoted by a corner of one end on each of opposite outer end portions of said intermediate frame member to accommodate inward pivotal movement toward the undersurface of said intermediate frame member and to limit pivotal movement in the opposite direction by engagement of the other corner of said end with the undersurface of said intermediate frame member, the lower end of each of said struts having a notch formation to receive said transverse brace as said intermediate frame member is swung into a horizontal position and to secure said struts in operative relation to the supporting legs of said inner frame member; and supporting legs secured to the outer portions of said outer frame member.

ERRATUM

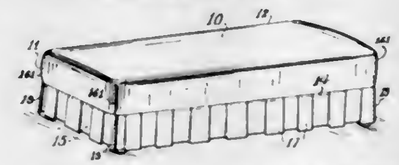
For Class 5—256 see:
Patent No. 2,641,758

2,641,001

STUDIO COUCH SLIP COVER

Fannie K. Krasnov, Melrose Park, Pa.

Application December 12, 1945, Serial No. 634,453
11 Claims. (Cl. 5—354)



11. A cloth slip-cover suitable for enveloping a studio-couch base and a mattress or cushion upon said couch base, said slip-cover including a cushion-engaging part having depending side-portions arranged to depend from said part and retaining strips adapted to be tucked between the mattress or cushion and the top of the studio-couch base for retaining the slip-cover in position, and couch-encircling side-panels attached to said depending side-portions along lines substantially spaced from the upper edges of said side-portions and adapted to hide the sides and ends of the studio-couch base, each of said retaining strips having a transverse dimension no greater than that of said side-panels.

2,641,002

BEEHIVE COMB FRAME CONSTRUCTION

Otto Erdmann, Watertown, Wis., assignor to G. B. Lewis Company, Watertown, Wis., a corporation of Wisconsin

Application November 3, 1949, Serial No. 125,177
5 Claims. (Cl. 6—10)



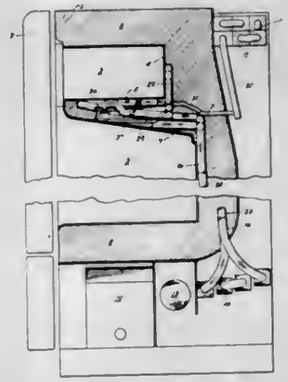
1. A beehive frame comprising a top bar, a pair of side bars, and a bottom bar, the top bar having aligned vertical grooves in its sides near each end thereof and having horizontal projections extending partially into the space defined by the planes of the sides of the grooves, the upper end of each side bar having a pair of projections fitting into the grooves in the top bar and having a groove receiving one of said projections of the top bar, and means securing the lower ends of the side bars to the ends of the bottom bar.

2,641,003

EVAPORATOR FOR UNIFORM PRESSURE ABSORPTION TYPE REFRIGERATORS

Walter L. Edel, Louisville, Ky., assignor to Clayton & Lambert Manufacturing Company, Louisville, Ky., a corporation of Delaware

Application March 26, 1949, Serial No. 83,631
22 Claims. (Cl. 62—99)



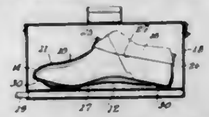
1. An improved evaporator comprising: an evaporator conduit providing a first active passage for the flow of an active stream of gas and evaporating liquid refrigerant in series with a second active passage for the flow of a larger active stream composed in part of the gas and evaporating liquid refrigerant from the first active passage, the average cross-sectional area of the second active passage being larger than that of the first; and another conduit for feeding relatively fresh gas into said second active passage, said other conduit being arranged to bypass said smaller first active passage and connected to discharge fresh gas into said larger second active passage adjacent to the point where said larger passage receives gas from said smaller passage.

2,641,004

METHOD FOR PRODUCING KNITTED SHOE UPPERS OF SHRINKABLE YARN

David V. Whiting, Pasadena, and John S. Runyan, San Clemente, Calif.

Application December 26, 1950, Serial No. 202,664
3 Claims. (Cl. 12—142)



1. The method of making a shoe upper which consists in providing a knitted sock that has a substantially complete bottom and an upper integral therewith, said bottom and upper being formed of pliable and soft synthetic thermo-setting resin yarn that has the property of shrinking when subjected to heat, mounting the sock

on a last that is substantially smaller than the initial size of the body of the sock upper and bottom, confining the upper portion of said upper along a line around the upper portion of the last in a manner to leave the portion of the sock upper below said line and the sock bottom in slack condition, applying heat to the sock to cause the slack portions of the same to shrink tightly onto the last below said line of confinement to change the sock from its initial soft and pliable larger condition to a smaller but stiffer pliable and form-retaining condition, and then removing that portion of the sock upper that is above the line of confinement.

2,641,005

METHOD OF MAKING PLATFORM SANDALS

Chaim Raphaeli and Israel Minkov, Tel Aviv, Israel, assignors to Naaley Magen Limited, Tel Aviv, Israel, a company of Israel

Application February 23, 1951, Serial No. 212,342

In Israel July 17, 1950

2 Claims. (Cl. 12—142)



1. Method of making platform shoes composed of an insert or platform of cork, a strip of leather covering circumferentially the edge of the platform, an inner sole on and an outer sole underneath the platform, an upper composed of straps, the straps being arranged in spaced relation to expose between them the strip covering the edge of the platform and the ends of the straps being fastened between the platform and the outer sole, characterised by performing in succession the following steps: sewing together the edge of the inner sole with an edge of an erect strip thus forming a deepened trough, inserting the platform into the formed trough, bending the other edge of the strip around the edge of the inserted platform and fastening it to the exposed outer side of the platform, affixing the ends of the upper-straps to the edge-covered portion of the platform, and finally fastening the outer sole to the affixed ends of the straps and the edge of the platform where it is covered with the strip.

2,641,006

METHOD OF MAKING PREWELT SHOES

Henry Lipton, Chicago, Ill.

Application February 17, 1950, Serial No. 144,806

1 Claim. (Cl. 12—142)



A method of manufacturing prewelt lasted shoes comprising providing an upper having a welt attached thereto at a sufficient distance from its lower edge to provide a lasting allowance below the welt, applying said upper to a bare last, pulling the lasting allowance over upon the last and fastening it thereto, cementing an outsole to the lower surface of said welt and finally sewing said welt to said sole to provide a flexible single sole shoe.

2,641,007

SWIVEL CONNECTION BETWEEN WINDSHIELD WIPER BLADE UNIT AND ARM

Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana

Application April 5, 1946, Serial No. 659,728

8 Claims. (Cl. 15—255)



1. A windshield wiper arm provided with a substantially planar portion, means for supporting a wiper blade unit permanently mounted on said arm for pivotal movement, said supporting means being provided with a substantially planar portion underlying said first-mentioned planar portion and also provided with a concave portion, the arrangement being such that when the supporting means is pivoted so that its planar portion is not coextensive with the planar portion on the arm, an edge of the latter planar portion will rest in the concave portion to cause the supporting means to assume a tilted position with respect to the arm.

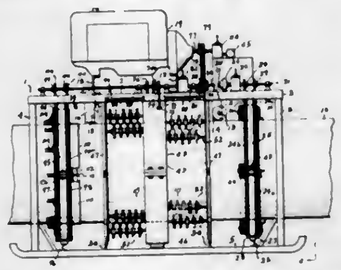
2,641,008

PIPE RECONDITIONING MACHINE

Oliver R. Smith, Fort Worth, Tex.

Application April 27, 1948, Serial No. 23,532

3 Claims. (Cl. 15—88)



2. In a pipe conditioning machine having a framework shaped to receive a pipe therethrough, a brush frame supported on the framework and adapted to surround the pipe, said brush frame comprising, a circular bracket and end rings arranged one on each side of said bracket, brush shafts whose inner ends are mounted in bearings in the brush frame bracket and whose outer ends have spherical bearing connections with the brush frame rings, said brush shafts being mounted for longitudinal movement in their bearings to facilitate the mounting and demounting of the brushes and releasable means for securing each shaft against such longitudinal movement.

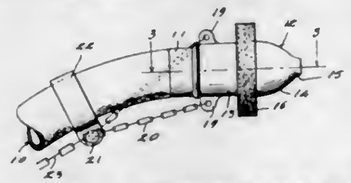
2,641,009

SEWER PIPE CLEANING APPARATUS

Gaylord I. Pierce, San Diego, Calif.

Application January 30, 1950, Serial No. 141,305

1 Claim. (Cl. 15—104.2)



In combination an elongated hose, a threaded coupling on one end of said hose, a hollow body threaded on said coupling, said body including a tapered nose with a reduced diameter nozzle extending from said nose, a circular brush having an annular back fixed to and engaging about said body rearwardly of the tapered nose thereof, a pair of ears carried by said body rearwardly of said brush, a band separably secured about said hose rearwardly of said body, apertured ears on the ends of said band, a bolt connecting said ears, a pair of chains each secured between one of said first-mentioned ears and said bolt, and an elongated chain secured to said bolt and extending rearwardly along said hose for withdrawing said hose and body without the application of pulling stress to said hose.

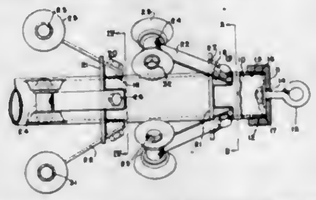
2,641,010

ROTARY CUTTER DEVICE FOR PIPE CLEANERS

Walter S. Lang, Pittsburgh, and Lawrence R. Robinson, Mount Lebanon, Pa., assignors to Pittsburgh Pipe Cleaner Company, Pittsburgh, Pa., a company of Pennsylvania

Application May 16, 1947, Serial No. 748,496

7 Claims. (Cl. 15—104.15)



2. In a pipe cleaner for removing deposits from the inner surfaces of pipes, in combination, a plurality of rotatable cleaning cutters, a spindle for carrying the rotatable cleaning cutters at opposite ends thereof, the spindle being so disposed that the cleaning cutters carried on opposite ends are inclined outwardly from the leading edges to the trailing edges, springs for carrying the spindles and for biasing the cutters against deposits on the insides of pipes and means for carrying the springs disposed in a predetermined arrangement.

2,461,011

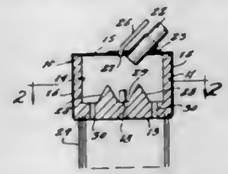
BRUSH WITH LIQUID FEEDING MEANS

Frank J. Caronia, Elmhurst, N. Y.

Application August 2, 1950, Serial No. 177,178

3 Claims. (Cl. 15—131)

3. In a brush of the character described, a brush head inluding a receptacle having a bottom wall provided with a longitudinally extending imperforate recess in the upper face thereof, and said bottom wall having a side portion extending longitudinally of said recess and formed with apertures opening into said receptacle and extending downwardly through the lower face thereof, bristles secured to and depending from



said side portion, and means for feeding liquid to said recess whereby the liquid will be splashed from said recess upon said side portion by movement of the brush in a cleaning operation and will flow downwardly through said apertures onto the bristles.

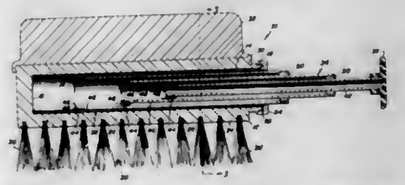
2,641,012

TELESCOPIC BRUSH HANDLE

Fred O. Storrs, Bell Gardens, Calif.

Application February 12, 1948, Serial No. 7,752

1 Claim. (Cl. 15—144)



The combination of an elongated brush body provided with a longitudinal bore and with an externally screw-threaded adapter at one end of said bore, a screw-threaded annular cap on said adapter, an annular gasket of resilient material in said cap and in engagement with the end of said adapter, and a telescopic handle comprising a set of tubular sections disposed in coaxial telescoped relation and each spaced from the adjacent section to provide an annular chamber therebetween, internal and external screw-threads provided at the respective outer and inner ends of said sections, an externally screw-threaded guiding ring positioned in the internally threaded outer end of each section and slidably engaging the outer surface of the next inner section, and a resilient restraining ring mounted on the externally threaded inner end of each section and frictionally engaging the inner surface of the next outer section, the restraining ring on the outermost section frictionally engaging the bore of said body, and said gasket frictionally engaging the outer surface of said outermost section.

2,641,013

HAND SCRUBBING DEVICE FOR AMPUTEES

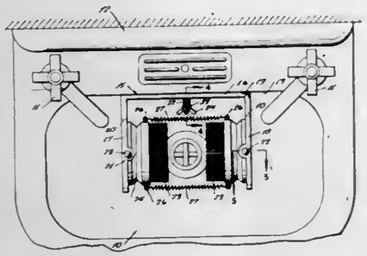
Mary F. L. Hesselgesser, Baker, Nev.

Application September 27, 1949, Serial No. 118,168

2 Claims. (Cl. 15—160)

1. A device for use in scrubbing the hand or the like, comprising a generally U-shaped frame to be mounted upon a wash basin or the like in substantially a horizontal position, the sides of the U-shaped frame having openings, pivot pins

mounted upon the sides of the frame and disposed substantially vertically and extending substantially across said openings, scrubbing elements pivotally mounted upon the pivot pins and extending laterally inwardly of the sides of the frame and having their inner ends disposed in



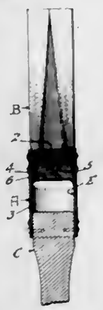
spaced opposed relation, the scrubbing elements being adapted to swing horizontally within the openings, resilient elements connecting the opposite sides of the scrubbing elements, so that they tend to remain parallel, and means carried by the frame for readily detachably securing the device to the wash basin.

2,641,014

BRUSH HAVING AN INTERNAL ANCHOR FOR SECURING THE BRISTLES WITHIN THE FERRULE

Harold F. Sauter, Nutley, and Joseph J. Weinberger, Jr., Kearney, N. J., assignors to Hanlon & Goodman Co., Belleville, N. J., a corporation of New Jersey

Application April 19, 1950, Serial No. 156,848
4 Claims. (Cl. 15—193)



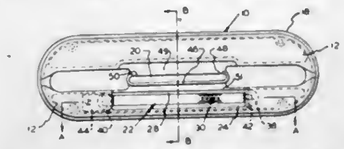
1. A brush comprising a tubular ferrule, an anchor for a bristle setting compound and bristles within said ferrule and having a portion disposed transversely and intermediate the length of said ferrule, a bunch of bristles having one end extending into one end of said ferrule, a mass of hardened bristle setting compound in said ferrule in which said portion of said anchor and said ends of the bristles are embedded, said portion of the anchor having projections extending beyond said setting compound toward the other end of said ferrule and in loose contact with the inner surface of the ferrule, and a handle having one end inserted into the second-mentioned end of the ferrule and secured to the ferrule and to said projections.

2,641,015

NAP DEFLECTOR AND VALVE CONTROL FOR VACUUM CLEANER NOZZLES

John B. Lovick, Los Angeles, Calif., assignor to Filtex Corporation, Los Angeles, Calif., a corporation of California

Application April 22, 1949, Serial No. 89,056
7 Claims. (Cl. 15—369)



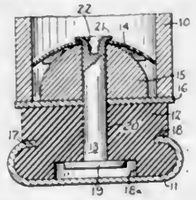
2. The combination comprising a vacuum sweeper nozzle body having a rug contacting face, said body containing a suction chamber opening downwardly through the face and an elongated passage at one side thereof forming an air by-pass communicable with the atmosphere, means forming an opening between the chamber and the passage, an elongated rotatable member extending longitudinally of the passage adjacent said face, said member being of generally cylindrical form and having along one side thereof a first surface carrying projections adapted to penetrate and deflect a carpet nap and having along another of its sides a second relatively smooth surface, mounting means at each end of said member cooperable with respective ends of said passage and adapted to enable bodily transverse movement of the member toward and away from an air by-pass restricting position adjacent said chamber in response to reversals in direction of movement of the nozzle, and means releasably holding the member against rotation from either of two positions of adjustment in one of which said first surface only is turned downwardly to lower said projections to carpet penetrating and deflecting position and in the other of which said projections are turned upwardly above the carpet and only said second relatively smooth surface is lowered into engagement therewith, said member being capable of said bodily transverse movement in both positions of adjustment.

2,641,016

CASTER GLIDE

Michael Kramcsak, Jr., Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application May 7, 1949, Serial No. 92,053
12 Claims. (Cl. 16—39)



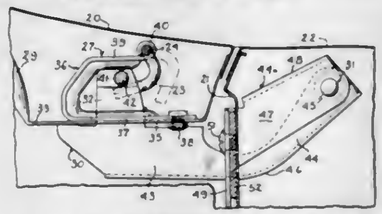
2. In a caster glide for application to the lower open end of a hollow cylindrical furniture leg, a base in the form of a cupped metal shoe, a cushion within the shoe extending upwardly beyond the shoe and adapted to support the lower edge of the furniture leg, a dome-shaped spacer above said cushion adapted to be disposed within the lower part of the leg, a retainer in the form of an umbrella of resilient material supported on the upper end of said spacer and of greater radius of curvature than said spacer so that the under surface of the umbrella and the upper surface of the spacer diverge from each other laterally and outwardly and adapted to have peripheral anchoring engagement with the inner surface of the leg, and a fastening member for the glide assembly extending through registering apertures in the cushion, spacer and retainer having an upper end between which and the summit of said spacer said retainer is clinched.

2,641,017

HOOD LATCH

Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application February 4, 1949, Serial No. 74,599
9 Claims. (Cl. 16—128.1)



1. In a latch mechanism for a dual-tip hood lid, the combination of a keeper and detent structure adapted to be carried by the lid adjacent its margin, and an upwardly movable bolt member adapted to be carried by the fixed part of the engine enclosure and adapted to cooperate with said keeper and detent structure comprising a bolt fixedly hinged at a point laterally and outwardly of the engine enclosure, said bolt having substantially straight portions located at an obtuse angle to each other and connected substantially end to end and respectively located within and without the enclosure, the part within the enclosure having intermediate of its ends a protruding ball-like part to cooperate with the keeper and detent structure by penetrating and being latched in a keeper opening, said bolt having an upwardly facing channel providing sheet-metal side walls and said ball-like part being constituted partially by portions of said walls and partially by a crosspin extending between said walls, the part of said bolt located without the engine enclosure being a wide part and the part within the engine enclosure being relatively narrow.

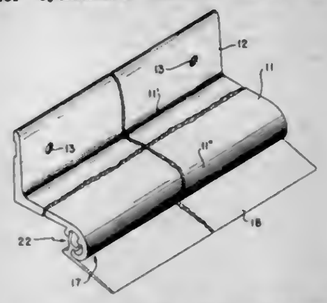
2,641,018

HINGE JOINT

Willard G. Snyder, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware

Application August 16, 1950, Serial No. 179,760
3 Claims. (Cl. 16—178)

1. The hinge prepared from two extruded segments comprising a first segment having a first planar member merged with a first cylindrically shaped member having a plurality of inwardly disposed projections, a second segment having a second planar member merged with a second cylindrically shaped member having a plurality of outwardly disposed projections, the said second cylindrically shaped member being slidably disposed within said first cylindrically shaped member, said outwardly disposed projections of the inner cylindrical member being located



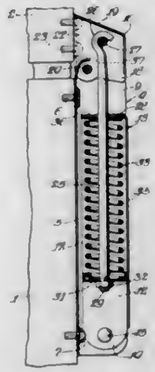
among said inwardly disposed projections of said first cylindrically shaped member.

2,641,019

SPRING HINGE FOR LOW-TEMPERATURE CABINETS

William O. Burke, Rockford, Ill., assignor to National Lock Company, Rockford, Ill., a corporation of Delaware

Application July 15, 1949, Serial No. 104,941
5 Claims. (Cl. 16—190)



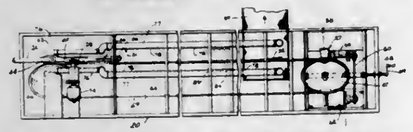
4. A hinge construction for pivotally mounting and supporting a relatively heavy lid upon a storage cabinet and assisting in the raising and lowering of the lid, comprising a channelled base adapted to be attached to the exterior of the cabinet and opening outwardly and rearwardly, a hollow hinge member pivotally mounted at its lower end in the lower end of the base and adapted to be moved bodily into and nested within the base when the lid is closed, a hinge wing adapted to be secured to the lid and pivotally connected to the upper end of the base whereby the lid may be swung to open or closed position, a projection carried in the hinge wing, a spring retainer extending into the hollow of the hinge member and pivotally connected at its upper end upon said projection, spaced guide members through which the retainer projects one of which is fixed to the hinge member and the other of which is slidable therein and which is connected to the lower end of said retainer, and a coil spring encompassing the retainer and bearing at its opposite ends against the guide members.

2,641,020

CHITTERLING PREPARING MACHINE

Ogden A. Clemens and Raymond O. Mertens, Chicago, and Max Walckhof, Villa Park, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois

Application November 3, 1949, Serial No. 125,176
15 Claims. (Cl. 17—43)



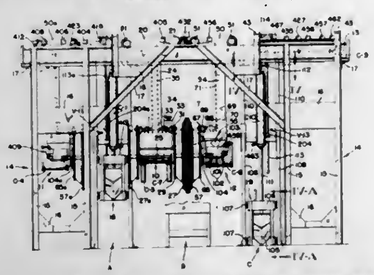
1. In a device of the class described the combination of a frame, a mandrel about which a casing may be placed, said mandrel being mounted on said frame, cutting means mounted on said frame, the cutting edge of said means being aligned with and adjacent the mandrel to split casings moved along the mandrel, a belt, said belt having a plurality of spikes projecting therefrom, wheel means on said mandrel, over which the casing may be moved, and power-driven means to move said belt to said mandrel at said wheel with the spikes projecting into the wheel whereby the spikes puncture and engage the casing and the casing is moved past said cutting means to slit the casing.

2,641,021

MACHINE FOR HEAT-TREATING TIRES

George F. Wikle and Charles E. Todd, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 2, 1951, Serial No. 209,092
23 Claims. (Cl. 18—2)



7. In a machine for heat treating tires, a support for a tire, a pair of opposed frames disposed one on each side of the support, heating elements carried by the frames and surrounding the support, means for simultaneously radially moving the heating elements towards and away from the support, control means including photo-electric means carried by one of the heating elements for controlling the radial movement of the heating elements whereby the heating elements will be spaced from the tread of the tire a predetermined distance.

17. In a machine for heat treating tires, the combination comprising, a track, a carriage mounted for movement along said track, a flat circular clamping plate rotatably mounted at each end of the carriage, means for independently rotating each of such clamping plates, a second carriage mounted for movement along said track, a flat circular clamping plate rotatably mounted on said second carriage and opposing one of said clamping plates on said first mentioned carriage, a third carriage mounted for movement along said track, a flat circular clamping plate rotatably mounted on said third carriage and opposing the other of said clamping plates on said first mentioned carriage, means for independently moving the second and third carriages relative to said first mentioned carriage to clamp a tire between the opposing clamping plates, centering pins carried by the clamping plates to center the tire relative to the axis of rotation of the plates, means for rotating the clamping plates, and means for moving all the carriages as a unit along the track.

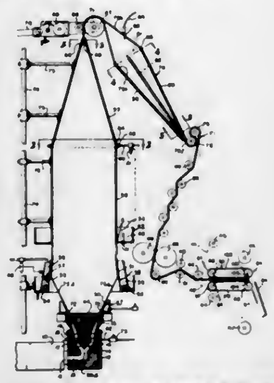
22. A machine for heat treating tires comprising, a carriage movable between a first loading station and a second loading station, means for laterally squeezing a tire to distort the tread thereof and clamp it for rotation to each end of the carriage, means for independently rotating each tire clamped to each end of the carriage, a pair of opposed frames disposed on either side of the path of movement of the carriage at a point intermediate of said loading stations, heating units carried by said frames and surrounding said path of movement, an applicator roll carried by one of said frames for applying a coating of protective liquid to the tread surface of a tire carried by said carriage, means for alternately moving the carriage from one loading station to the other, means for moving the frames toward and away from each other to allow passage of the carriage therebetween, the carriage being of such a length that one end thereof is surrounded by said heating elements and the other end is at one of said loading stations whereby one tire may be unloaded from said end of the carriage at the loading station and replaced by a second tire while a third tire clamped to the other end is being heated, and means for simultaneously radially moving said heating units and said applicator roll towards and away from said third tire clamped to said other end.

2,641,022

METHOD OF MANUFACTURING PLASTIC FILM

Richard G. Kress, Los Angeles, Calif., assignor to Extruders, Inc., Culver City, Calif., a corporation of California

Application February 21, 1950, Serial No. 145,487
9 Claims. (Cl. 18—47.5)



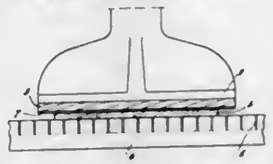
1. In a method of forming a wall from thermoplastic material of the character described: heating the material; continuously forming a sheet of the heated material; moving the sheet continuously along a path of movement; bringing all portions of the sheet consecutively into engagement with a cooled wall surface so as to extract heat therefrom; and stretching the sheet after it has been so cooled so as to produce molecular orientation therein.

2,641,023

METHOD OF PRODUCING ARTICLES FROM RUBBER

Carel Willem Heijne den Bak and Robert Ronald Laupman, Rhenen, Netherlands

Application August 8, 1949, Serial No. 109,134
In the Netherlands September 3, 1948
2 Claims. (Cl. 18—55)



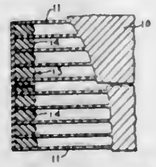
1. A method of producing articles from rubber and the like comprising supporting a slab of unvulcanized rubber at a plurality of spaced points on the lower surface thereof and the areas between the points being free of support, applying pressure to the upper surface of said slab while maintaining the peripheral edges of said slab between the upper and lower surfaces thereof free from pressure and simultaneously with the pressure applying heat to said slab, decreasing pressure near the edges of the slab to a lesser amount than that in the center of the slab by allowing rubber in the marginal portions of the slab to laterally escape, the final article thereby having a decreasing quantity of material and depth from the center thereof outwardly.

2,641,024

METHOD OF MAKING FIN STIFFENERS FOR ENGINE CYLINDERS

Ahmed Panagrossi, Hamden, Conn., assignor to The Connecticut Hard Rubber Company, New Haven, Conn., a corporation of Connecticut

Application February 28, 1949, Serial No. 78,749
1 Claim. (Cl. 18—59)



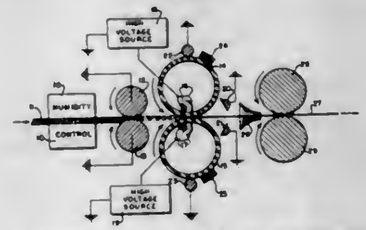
A method of providing a vibration-damping structure upon a body having a plurality of parallel cooling fins projecting outwardly therefrom, which comprises providing a composite strip having an outer part of flexible and relatively hard, cured, rubber compound not readily penetrable by the edges of the cooling fins, and an inner part constituted by a continuous layer of relatively soft, uncured, rubber compound adhering to said outer part, said uncured rubber compound being readily penetrable by the edges of the fins and moving the strip laterally and perpendicularly against the edges of the fins so that the fins cut into the uncured compound and separate it into different portions disposed and compressed between the fins, and continuing the movement until the relatively hard part of the strip contacts the fin edges and resists further movement, whereby the relatively soft compound is extended fully into the spaces between the fins, and thereafter curing the uncured compound on the body by the application of heat and thereby integrally uniting the two parts of the strip.

2,641,025

APPARATUS AND METHOD FOR DRAFTING FIBERS

John C. Busby, Jr., United States Navy, Salisbury, N. C.

Application October 29, 1947, Serial No. 782,938
11 Claims. (Cl. 19—66)
(Granted under Title 35, U. S. Code (1952), sec. 266)



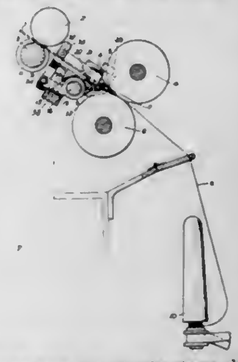
3. A method of drafting fibrous material comprising the steps of treating said material with soluble electrolytes, establishing an electrostatic field between two opposed electrodes, feeding said treated material into the region between said electrodes, separating the individual fibers of said material by mutual electrostatic repulsion within said region, and collecting said fibers.

2,641,026

DRAFTING OF TEXTILE FIBERS

Geoffrey Hill Ambler, Ben Rhydding, Ilkley, England, assignor to Ambler Superdraft Limited, Ilkley, England, a British company

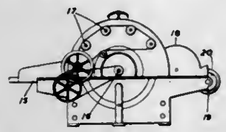
Application March 22, 1950, Serial No. 151,136
In Great Britain April 11, 1947
38 Claims. (Cl. 19—130)



22. In apparatus for single stage drafting of a twisted roving of textile fibres, such apparatus being of the type having forward urging means for the roving disposed to divide the distance be-

tween a feeding device and a pair of contacting drafting rolls at relative surface speeds to produce tially shorter front zone, the combination comprising: one drafting roll with a resilient surface of low hardness and a co-operating hard fluted roll; gearing for driving the feeding device and drafting rolls at relative surface speeds to produce therebetween a single stage draft of at least 20; urging means in the form of a pair of members with forwardly movable surfaces shaped to provide a passage therebetween for confining the twisted roving in passing therethrough to a compact cross-sectional form, means for supporting said surfaces in operative positions disposed so near the nip of the drafting rolls that at least portions of said surfaces are located forwardly of a line tangent to the rear sides of the two drafting rolls; external loading means applied to one of the members of said urging means to apply peripheral pressure to the compacted roving in said passage; and gearing for driving said surfaces forwardly at a speed slightly greater than the surface speed of the feeding device.

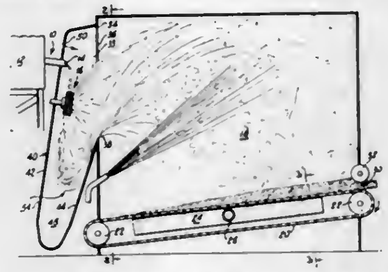
2,641,027
MANUFACTURE OF STAPLE FIBER PRODUCTS
William Ivan Taylor, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application June 19, 1947, Serial No. 755,629
In Great Britain June 27, 1946
4 Claims. (Cl. 19—155)



1. Method of converting continuous filaments into staple fibres, which comprises feeding forward a mass of randomly oriented continuous filaments at a controlled speed to a combing point, combing the mass onwards from that point at a higher speed whereby the filaments are torn into staple fibres and formed into a sheet of said fibres, rolling said sheet on the surface of a rotating cylinder to form thereon a thick layer of staple fibres, said thick layer being of a width substantially equal to the width of said sheet of staple fibres being taken up on said rotating cylinder, and cutting said layer from the cylinder in the form of a flat lap.

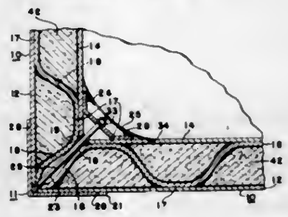
2,641,028
APPARATUS FOR FIBER COLLECTION
Harmon Steele, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application July 6, 1948, Serial No. 37,271
1 Claim. (Cl. 19—156)

In a fiber-collection apparatus including a collection chamber having an entrance opening in a wall thereof and means for introducing airstreams carrying fibers into said collection chamber through said opening and upwardly and forwardly in said chamber to establish a flow therein a well-defined arcuate path, the improvement comprising means for intercepting and disrupting said airstream and for causing a condition of turbulence within said chamber, said last-named means including a plurality of nozzles positioned in the wall of the chamber having the entrance opening and located below said opening and distributed across the width of said collection chamber, said plurality of nozzles being pointed forwardly and upwardly to direct a gaseous blast in the same general direction of movement as that taken initially by the fiber-carrying airstreams upon their introduction into



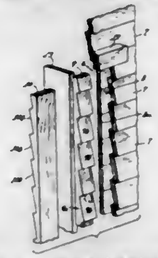
the chamber, but so as to intercept said airstreams at a region of their established arcuate path at which the flow has taken a downward course, thereby disrupting said well-defined flow and creating turbulence within the chamber, and achieving a relatively uniform distribution of the fibers settling in the chamber, and means for supplying a gas under pressure to said nozzles.

2,641,029
COUPLING MEANS AND TRIM FOR LAMINATED BUILDING UNITS
Fred H. Trimmer, Arlington, Va.
Application February 24, 1950, Serial No. 146,012
2 Claims. (Cl. 20—4)



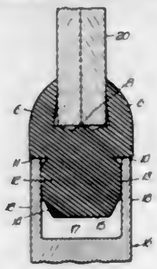
1. In building construction, the combination with two laminated panel sections in angular relation to one another, said panel sections each including spaced apart facing sheets and an intermediate corrugated sheet, the crowns of the ridges of which are secured to said facing sheets and the side portions of the ridges of which extend diagonally between the facing sheets, the ridges nearest the adjacent edges of said panel sections having their particular outermost side portions substantially paralleling a vertical plane bisecting the angle between the planes of said panel sections to act as struts between their respective facing sheets; of coupling means and trim for said panel sections, comprising external and internal strips having bearing faces engaging the external exposed faces, respectively, of said facing sheets outwardly of the zones of said particular side portions of the ridges of the panel sections, and means for drawing said strips toward each other and retaining them in clamped relationship to said panel sections, and whereby collapsing of the panel sections is resisted by said particular side portions of the ridges thereof.

2,641,030
BUILDING TRIM
Regis W. Stalter, Pittsburgh, Pa.
Application January 21, 1950, Serial No. 139,875
2 Claims. (Cl. 20—5)



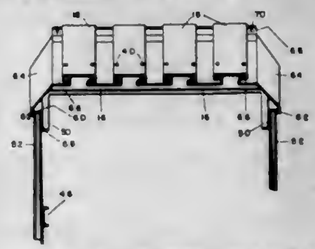
2. A building structure having a wall with a clapboard siding, a trim for a corner of the building structure comprising a basal strip extending along the ends of the clapboards at said corner, the outer face of said basal strip being of saw-tooth form having facets located beyond said ends of the clapboards and in registry severally with the outer surfaces of the clapboard siding, and a finish strip of saw-tooth form on its inner face and of substantially greater width than said basal strip, the finish strip being secured with its saw-tooth inner face snugly engaged upon the saw-tooth outer face of the said basal strip and extended laterally therefrom into snug registered engagement with the outer faces of said clapboard ends, the engaged basal and finish strips presenting in the external corner surfaces of the building structure a single saw-tooth seam.

2,641,031
PUSH-OUT SASH
Yale W. Ehret, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application February 9, 1951, Serial No. 210,255
9 Claims. (Cl. 20—56.4)



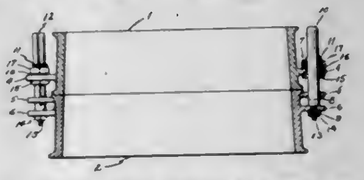
1. In a sash of the character described for retaining a pane of laminated glass of slightly smaller dimensions than the sight opening in the sash in such a manner that the pane may be pushed out in emergencies, a metal frame having a rail portion wherein there is an inwardly opening channel having two opposed inwardly extending side wall flanges, and a glazing strip of resilient rubber-like material mounted in said channel and adapted to support a window pane in said sight opening, said strip being characterized in having opposed lip portions projecting into the sight opening to provide a channel in which the margin of a pane may be resiliently clamped, a longitudinal rib centrally located in the floor of the channel provided by said lip portions, a pair of oppositely directed shoulder portions adjacent the bases of said lip portions and adapted to seat on the edges of said rail portion flanges, and a bead-like retention portion projecting oppositely from said lip portions and adapted to seat within said channel in said rail portion with the opposite sides of said retention portion engaging the confronting faces of said rail portion flanges and said retention portion terminating short of the floor of said channel in said rail portion so as to be spaced away therefrom, said glazing strip and rail portion allowing a pane to be ejected from the sight opening upon sufficient distortion of the same.

2,641,032
VENTILATED METAL AWNING
Lawson J. Freeman, Jr., Houma, La., assignor, by direct and mesne assignments, of three-fourths to Edward Joseph Laperouse and one-fourth to Lawson J. Freeman, Sr., both of Houma, La.
Application June 5, 1950, Serial No. 166,250
3 Claims. (Cl. 20—57.5)



3. A metal awning including a roof and a pair of ends, said roof having its sides sloping downwardly and outwardly and terminating laterally in depending edges, said ends having their upper edges received under said sloping sides and secured thereto, a header plate having a top surface resting upon the upper edges of each of said ends and received under said sloping sides and a side surface secured to the inner surface of said end and a flange secured to one of said depending edges.

2,641,033
MOLDING APPARATUS
Russell J. Hines and Arthur C. Hintz, Lakewood, Ohio, assignors, by mesne assignments, to Hines Flask Company, Cleveland, Ohio, a corporation of Ohio
Application February 7, 1950, Serial No. 142,877
1 Claim. (Cl. 22—110)



In a foundry flask having a mating pair of separable hollow members adapted to be assembled in surmounting relation, means for establishing and maintaining alignment between said hollow members including a pin having a progressively increasing cross-sectional area from one end towards the other and having means for per-

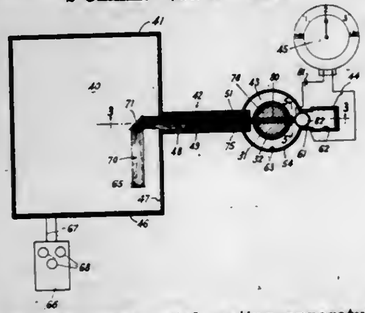
mitting the large area end to be resiliently squeezed together for insertion into a guide bushing, said last-mentioned means consisting of the axial portion of said pin having an open split extending along its longitudinal axis from the large area end throughout the major portion of its length and terminating short of the other end to form an integral base having a pair of outwardly diverging finger portions freely extending therefrom, each of said hollow members having external apertured lugs extending laterally therefrom, means for securing the integral base of said pin in the lug on one of said members whereby the split end of said pin extends towards a lug on the second of said members, a tubular guide bushing having an external thread with a head at one end and adapted to be carried in the lug aperture of said second member with the head engaging one side of the lug to restrict relative movement in one direction therein, said tubular guide bushing adapted to receive the extended split end of said pin therethrough in compressed snug-fitting engagement to retain said hollow members in aligned surmounting relation, and a nut adapted to engage the external bushing thread on the other side of the corresponding lug to restrict relative movement in the other direction therein.

2,641,034

METHOD OF AND APPARATUS FOR INDICATING AND/OR CONTROLLING THE LEVEL OF LIQUID WITHIN AN OPAQUE CONTAINER

Isaac Harter, Jr., Beaver, Pa., assignor, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey

Application January 29, 1949, Serial No. 73,643
2 Claims. (Cl. 22—57.2)



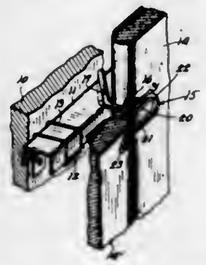
2. In continuous metal casting apparatus in which molten metal is introduced into the upper end of an open-ended mold and electrically controlled mechanism withdraws solidified metal from the lower end of said mold, apparatus for controlling the level of molten metal with the mold, comprising, in combination, a lead-lined casing closely embracing the mold at substantially the desired level of molten metal therein; a source of penetrating radiation; means, including a lead-lined tube interconnecting said source and said casing and having an aperture, elongated lengthwise of the mold, in its end adjacent the mold at substantially the desired level of the molten metal therein, operative to direct a beam of radiation, having a cross-sectional area, elongated lengthwise of the mold, from said source through said mold, whereby the molten metal will intercept more or less of the length of the extended cross-sectional area of the beam in accordance with the molten metal level; said source and said tube being at substantially the same level as said casing; an ionization chamber communicating with said casing in alignment with said tube arranged to receive said beam; means operative to impress an electric potential on said ionization chamber; and electric control means, responsive to the electrical conductivity of said chamber as a function of the radiation of the non-intercepted portion of the beam entering said chamber, controlling the operation of said mechanism to control the casting withdrawal rate to control the molten metal level within the mold.

2,641,035

WALL CONSTRUCTION AND CLIP THEREFOR

Nels Nelsson, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application March 4, 1950, Serial No. 147,733
4 Claims. (Cl. 24—73)



1. A clip for securing wall boards arranged in coplanar edge-to-edge relationship to one edge of a furring member, said clip comprising an intermediate portion adapted to be disposed in the joint between two adjoining boards, a board-engaging portion at one end of said intermediate portion in the form of a loop of substantially U shape with the bight portion of said loop adapted to rest flatly against the front surface of one of said boards and with one of the legs of said loop longer than the other and adapted to rest against the front surface of the other board, and means at the opposite end of said intermediate portion adapted to engage the inner edge of said furring member, said intermediate portion being bent adjacent the outer edge of said furring member in such a direction that said means lie substantially directly inwardly of a part of the board engaging portion overlying one of said boards, whereby said clip includes a U-shaped construction capable of clamping said one board to said furring member independent of another abutting board.

2,641,036

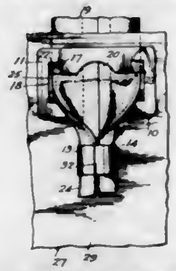
END CLAMP FOR POCKETBOOK HANDLES

Daniel I. Reiter, New York, N. Y.

Application September 26, 1950, Serial No. 186,875
7 Claims. (Cl. 24—114.5)

4. A one-piece sheet metal clamp for the end of a pocket book handle strap, said clamp comprising a strap-receiving end, said strap-receiving end consisting of a flat head having an aperture of a configuration complemental to the cross-sectional shape of the strap formed therethrough, said head constituting a flat washer, a flat extension coplanar with the head integrally joined at one end to a portion of the outer edge

of the head, and projecting therefrom, said extension having opposing side edges, a pair of arms laterally extending in confronting relation from the side edges of the extension adjacent the outer end thereof, and spaced apart sufficiently to receive the strap end when said strap end is moved axially between the arms on the extension after being passed through the aperture in the



head, said arms being arranged substantially perpendicular to the plane of the extension and having offset outer free ends which are turned inwardly toward each other and arranged at an obtuse angle to the arms, said ends having free transverse edges formed with penetrating prongs adapted to engage the strap end when the arms are bent toward each other onto the strap end.

2,641,037

SEALING CLOSURE

Louis Ernest Elwin Gossner, San Francisco, Calif., assignor to Treg, Inc., San Francisco, Calif., a corporation of California

Application April 24, 1950, Serial No. 157,748
2 Claims. (Cl. 24—205.1)



1. In an improved sealing strip structure for double slide fastener closures for openings, an expansible hollow male strip affixed along one edge of said opening between the lines of teeth, a convex, rounded edge on said male strip, a series of parallel longitudinal slits in said convex edge dividing it into a series of parallel and closely aligned longitudinal segments, a female strip affixed along the opposite edge of said opening between the opposite lines of teeth, a concave edge on said female strip of the same curvature as the edge of said male strip, whereby said sealing strips form an impervious seal when said teeth are closed and said strips are mated.

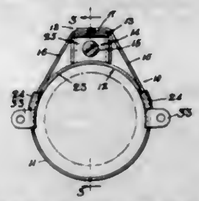
2,641,038

AXIALLY TIGHTENING BAND CLAMP

Clarence E. Christophersen, Inglewood, Calif., assignor to Marman Products Company, Inc., Inglewood, Calif., a corporation of California

Application July 18, 1951, Serial No. 237,458
10 Claims. (Cl. 24—243)

1. In a band clamp with axially disposed actuator; a clamping band comprising outer and inner sections, said outer section including a loop portion and a saddle projecting radially outwardly from the extended periphery thereof, and said inner band section being of arcuate yoke form, having end portions slidably connected to the respective side portions of said outer section and a crown portion disposed radially inwardly of the outer portion of said saddle to define an actuator space, and actuator means disposed in said space and including first and second wedge means disposed in end to end array extending parallel to the axis of the clamp, said first and second wedge means comprising respectively a fixed intermediate wedge secured to one of said band sections and a pair of movable wedges wedgingly engaged with



the respective ends of said fixed wedge for radially wedging action and having axially slidable bearing engagement against the other of said band sections; and actuator screw means extending through the respective movable wedges and operable, upon rotation thereof, to draw said movable wedges toward each other so as to effect a radially expanding action of said wedges between the respective band sections.

2,641,039

HOSE CLASP

William Judson Bissell, Pasadena, Calif., assignor to Jonathan M. Bissell, Los Angeles, Calif.

Continuation of application Serial No. 681,026, July 2, 1946. This application November 13, 1950, Serial No. 195,350
2 Claims. (Cl. 24—246)



1. A hose clasp comprising an elongated, substantially flat body, an irregular shaped head integral with the body and disposed on one end and face thereof, said head having grooves formed about a portion of the periphery thereof, an enlarged portion on the end of said body opposed to said head but integral with the same face and coextensive in width thereof, the enlarged portion and head lying in substantially the same plane, said enlarged portion having an elongated recess formed in each side thereof, said recess being parallel to said body, and an elongated, irregular shaped keeper, said keeper comprising a pair of opposed, arcuately bound, spaced apart sides, a portion of each side being received by a portion of the grooves in said head, each side having integral therewith a pintle adapted to be received in said recesses for pivoting and sliding movement of said keeper, a bottom on said keeper interconnecting said sides to prevent the spreading apart thereof, a resilient arm integral with each side and extending toward the opposed side, said arms being adapted to be received by a portion of the grooves about said head adjacent the free end of said body to hold

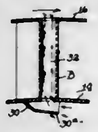
the keeper in a clasping position, a third arm integral with but one side at the extreme end and in opposed relationship to said bottom, said third arm being substantially parallel to said enlarged portion but spaced therefrom and adapted to receive an elastic member passing about and between said third arm and the enlarged portion, and a member interconnecting the two sides disposed intermediate the ends and between the head and enlarged portion respectively.

2,641,040

MEANS FOR COOLING TURBINE BLADES BY AIR

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York

Application January 2, 1948, Serial No. 75
1 Claim. (Cl. 253—39.15)



A turbine rotor comprising inner and outer shroud rings, and a plurality of hollow turbine blades which are crescent-shaped in cross section and which are mounted between said rings and freely open at both ends through said rings, and each blade having a separate air guide associated with said blade and defining an air passage along which substantial air stream is directed radially outward through said blade, each air guide comprising a separate air-collecting and air-directing member mounted radially-inward with respect to said inner shroud ring and secured to the inner face of said shroud ring and entirely supported thereby, each air-directing guide over-hanging the inner open end of its associated blade in the direction of rotation and having end portions extending forwardly in said direction, and the air passage in each air-directing guide increasing in width circumferentially of said rotor from the middle diametral plane of said rotor toward each side edge of the supporting inner shroud ring and thereby equalizing the air flow in the associated crescent-shaped blade.

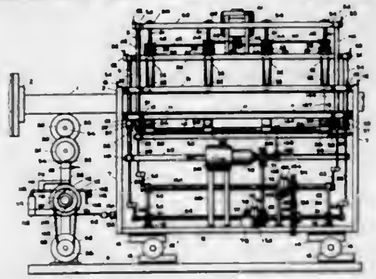
2,641,041

CUTTING MACHINE FOR PLASTIC MATERIAL

Joseph J. Gano, Worcester, Mass., assignor, by mesne assignments, to Julianna Orbell, Brooklyn, N. Y.

Application January 2, 1948, Serial No. 275
3 Claims. (Cl. 25—107)

1. In a device for simultaneously piercing and cutting an extruded plastic column, the combination of a track base, a primary frame operably mounted for movement on said track base, a first power source connected to effect reciprocatory movement of said frame, a control mechanism operably disposed and actuated by movement of said plastic column to correlate said frame movement with the movement of said column, a table attached to said primary frame and disposed to receive said column, a secondary frame mounted on said primary frame, a plurality of cutting wires mounted on said secondary frame, a plurality of other cutting means mounted on said secondary frame, and a second power means connected to actuate said secondary frame intermittently and allow said cutting wires and



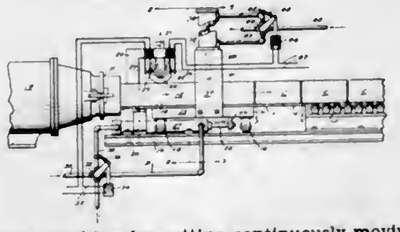
other cutting means to operate on said plastic column.

2,641,042

CUTTING MACHINE FOR EXTRUDED CLAY PRODUCTS

Philip E. Kopp, Youngstown, Ohio

Application September 28, 1950, Serial No. 187,229
1 Claim. (Cl. 25—107)



In a machine for cutting continuously moving semi-solid hollow extruded material, a table having a smooth top forming a support for the said extruded material, the said material normally sliding over the said table, a piston and cylinder assembly, the piston of which is affixed to said table, a source of fluid pressure in communication with the opposite ends of said cylinder, a solenoid actuated four way valve controlling said fluid pressure and directing same alternately to the opposite ends of said cylinder, a wheel arranged to be rotated by the said continuously moving extruded material, a cam on said wheel and switch means responsive in closing to said cam, an electrical circuit for energizing said solenoid valve and responsive in closing to said switch means whereby predetermined movement of the said extruded material and said wheel initiates movement of the table therebeneath and causes it to move with said material, a cutting mechanism including a cutting wire positioned for vertical reciprocating motion carried by said table, a secondary cam on said wheel and secondary switch means responsive in closing to said secondary cam, the said cutting mechanism responsive in operation to said secondary switch means whereby the material is cut during its continuous movement.

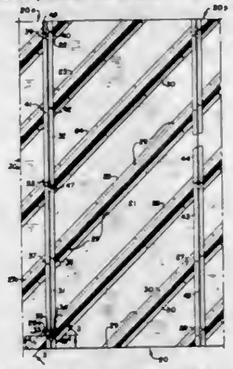
2,641,043

FORM FOR MOLDING CONCRETE WALLS

Clifford M. Martin, Hartsel, Colo.

Application July 14, 1950, Serial No. 173,788
2 Claims. (Cl. 25—131)

2. A form for use in molding concrete walls, comprising, a pair of plates abutting along juxtaposed edges thereof, at least two spaced diagonal ribs on each plate, the ribs on one plate being in axial alignment with the corresponding ribs on the other plate and the ends of the ribs at the line of juncture between the plates being juxtaposed, a bar overlying said edges and the ends of all ribs, and wedging means on the bar



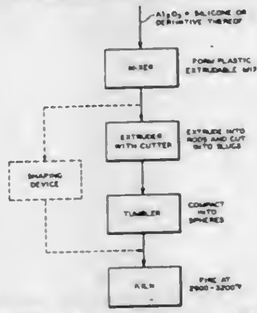
engaging adjacent abutting ribs on adjacent plates for securing the plates together, said securing means comprising pins on the bar engageable in apertures in the ribs, said pins being tapered to draw the plates together upon relative movement between the bar and plates.

2,641,044

PROCESS FOR MANUFACTURING MULLITE-CONTAINING REFRACTORIES

Louis C. Bearer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 24, 1949, Serial No. 123,313
11 Claims. (Cl. 25—156)



1. A process for manufacturing glass-free refractory articles consisting essentially of refractory material bonded with mullite, which comprises preparing a homogeneous plastic mix including alumina grain, other refractory material in the form of grain, and a compound selected from the group consisting of silicones and derivatives of silicones which are converted to pure silica by firing, the alumina being in stoichiometric excess of the silica equivalent of said compound required to form mullite with said alumina, forming said mix into shapes, and firing said shapes at a temperature in the range of 2900 to 3200° F. so as to decompose and oxidize said silicone to pure silica and react said alumina and said silica to form mullite as a bond for the refractory grain.

2,641,045

REVERSIBLE FABRIC

Juan Bondy Meister and Martin Neustadter Stern, Mexico City, Mexico

Application December 9, 1949, Serial No. 132,009
In Mexico October 5, 1949
1 Claim. (Cl. 28—80)



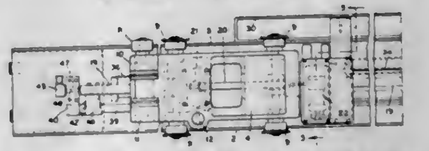
A reversible carpet textile comprising a main body of woven flexible fabric and a continuous series of spaced apart, parallel, waterproofed, non-absorbent, large diameter threads precoated with plastic material separate and independent from main body, said threads being of sufficient stiffness to support said main body out of contact with a supporting surface, each thread woven through the fabric to form a series of spaced lines of projections forming loops extending in staggered relation from the opposite surfaces of the main body whereby the textile is reversible, said loops on each side being of equal length and at least equal to the thickness of said main body.

2,641,046

STOCK FEEDING MECHANISM

Edwin R. Motch, Jr., Shaker Heights, Ohio, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio

Application November 26, 1948, Serial No. 62,135
10 Claims. (Cl. 29—69)



1. A device for intermittently advancing a work piece comprising a guide-way, work gripping means mounted for movement along said guide-way and adapted to be turned somewhat askew thereof, a fixed clamp operative rigidly to hold such work against movement, a member reciprocable longitudinally of said guide-way, and means on said work gripping means operative to engage said reciprocable member for movement of said work gripping means therewith, said member engaging means being pivotally secured to said work gripping means to permit the latter to turn somewhat askew when gripping a bent work piece or the like.

2,641,047

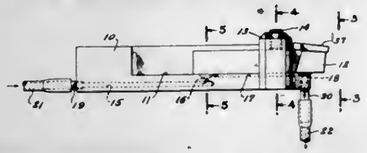
CUTTING TOOL

George W. Jackman, Waterbury, Conn., assignor to The Waterbury Farrel Foundry & Machine Company, Inc., Waterbury, Conn., a corporation of Connecticut

Application July 19, 1951, Serial No. 237,527
3 Claims. (Cl. 29—95)

1. In a liquid cooling device for reducing the temperature of a cutting tool and its carbide tip without applying coolant to the exterior of said tool or tip, the work or the chips being removed therefrom, an elongated holder, a cutting tool secured to said holder, an open groove in said

holder, communicating with a liquid coolant supply channel extending to the rear of said holder, and with a forward outlet channel leading said coolant away from said tool, means to clamp said tool on said holder, the contact of said coolant with the undersurface of said tool while passing through said confined groove under said tool serving to remove heat continuously from said tool and maintain said tip at the desired cutting temperature.

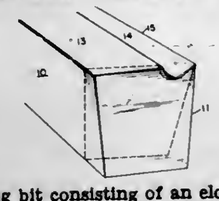


2,641,048

CUTTING TOOL

Whitney Vreeland, Portland, Oreg.

Application April 14, 1951, Serial No. 221,067
2 Claims. (Cl. 29—95)



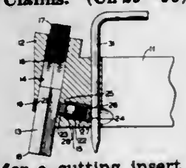
1. A cutting bit consisting of an elongated bar of uniform cross section throughout its entire length, said bar having parallel top and bottom faces, one side face perpendicular to said top and bottom faces and the other side face extending upwardly and outwardly and forming an obtuse angle with said bottom face, a narrow longitudinal groove in said top face extending along the edge between said top face and said latter mentioned other side face, said groove extending the entire length of said bar, the width of said groove being considerably less than one-half the width of said top face, the outer portion of the bottom of said groove sloping upwardly and outwardly so as to form a sharp edge with the top of said other side face, whereby, when either end of said bar is beveled so as to cause said edge to extend to the furthest point on said end, that end will present a cutting tip with said edge constituting the cutting edge and said groove also acting as a chip breaker.

2,641,049

TOOLHOLDER

Wilbur L. Kennicott, Unity Township, Westmoreland County, Pa., assignor to Kennametal Inc., Latrobe, Pa., a corporation of Pennsylvania

Application January 13, 1949, Serial No. 70,634
10 Claims. (Cl. 29—96)



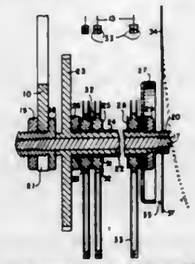
3. A holder for a cutting insert comprising a shank adapted to be held by the tool post on a cutting machine, a head at one end of said shank, said head being formed with a recess extending inwardly from one face for receiving a cutting insert, an abutment at the bottom of said recess spaced from said face and adjustable longitudinally of said recess to position the cutting edge of the cutting insert with respect to said face, a spring pressed clamp carried by said head adjacent said recess in position to engage the cutting insert for releasably securing said cutting bit in the recess, and a releasing member for moving said clamp against the force of its spring to release and permit removal of a cutting insert from said recess.

2,641,050

METHOD OF MAKING ROTARY SWITCH WIPERS

Kenneth W. Graybill, Elmhurst, and Hans Sengebusch, Villa Park, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application March 15, 1946, Serial No. 654,556. Divided and this application January 17, 1948, Serial No. 2,905
1 Claim. (Cl. 29—155.5)



The method of making a wiper structure for an electrical stepping switch which comprises recessing one face of a disc-like hub around its outer edge to form a first recess in said one face, recessing the opposite face of said hub to form a second recess around the outer edge thereof and a third recess around the inner edge thereof in said opposite face, positioning in each of said first and said second recesses a wiper blade whose thickness is less than the depth of said first and second recesses, rigidly securing said blades to said hub in said first and second recesses, applying pressure only to said hub along an axial line thereto to compress only that portion of said opposite face of the hub remaining between said second and third recesses, without applying pressure to said blades, until the over-all thickness between the opposite faces of said hub reaches a predetermined thickness, and then mounting a plurality of said hub assemblies side by side on a shaft so that the total thickness of the complete assembly is dependent only on the thickness of the hubs and independent of the thickness of the wiper blades.

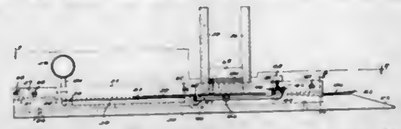
2,641,051

PAPER CLIP APPLICATOR

Edward H. Vick, Orlando, Fla.

Application June 13, 1951, Serial No. 231,311
1 Claim. (Cl. 29—211)

In a paper clip applicator, the combination which comprises an elongated horizontally disposed base having a longitudinally disposed slot therein, a bed having slots therein positioned in the slot in the base, a bar having a paper clip receiving opening therethrough mounted in the bed, a vertical upwardly disposed paper clip supply chute extended from the opening in the bar, a horizontally disposed plunger slidably mounted in the bed, a knob extended from one side of the bed for manually actuating the plunger, said plunger being positioned to remove a paper clip from the chute, a throat in the bed below the bar, said throat having oppositely disposed shoulders which support the outer portion of a clip as it is moved forward by the plunger, an inclined slot between the said shoulders, a rocker cam pivotally mounted on said base and overhanging the inclined slot, means actuating the rocker cam by the plunger so that the cam will move the inner portion of the clip downwardly into the inclined slot, and a spreader cam positioned in the bed for spreading sections of the paper clip when the paper clip is ejected by the plunger.

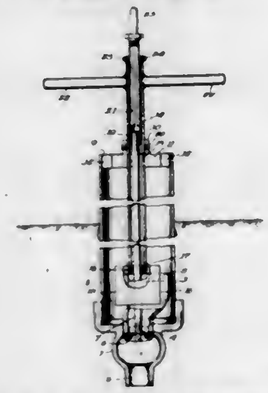


2,641,052

VALVE REMOVAL WRENCH

Richard Fennema and George E. Hansen, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois

Application June 5, 1948, Serial No. 31,376
4 Claims. (Cl. 29—213)



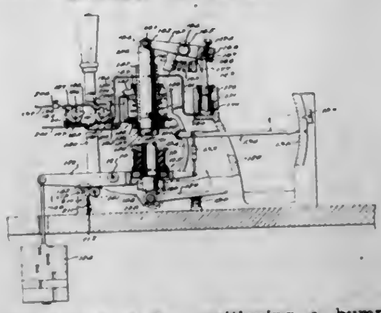
1. A wrench for effecting the simultaneous removal of valve bonnet with a seat, stem, and closure member or the like from underground valves having a tubular extension therefrom to the surface, the combination including an open end socket head for straddling the bonnet, a tubular support member fixedly attached to the said socket head, a top guide member non-rotatably mounted on the said tubular support member and having spaced-apart peripheral portions for snug rotation within the valve tubular extension, a sleeve within the tubular support member and having thread means for engaging an end portion of the valve stem to draw the latter against the bonnet, the said sleeve being threaded exteriorly for a substantial portion of its length to permit axial adjustment of the latter relative to the valve stem when the latter is drawn toward the bonnet, threaded means mounted on the tubular support member and engaging the exteriorly threaded portion of the sleeve for locking the said sleeve against longitudinal movement relative to the tubular support member when the wrench is actuated to remove the valve bonnet, stem, and closure member, the said sleeve engaging locking means being predeterminately rotatable relative to the tubular support member whereby the closure member may be drawn to the bonnet seat.

2,641,053

APPARATUS FOR MAKING PRECISION ANTIVIBRATION MOUNTINGS

Leon F. Thiry, Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

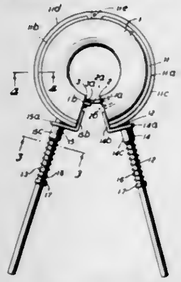
Original application December 3, 1943, Serial No. 512,841, now Patent No. 2,446,621, dated August 10, 1948. Divided and this application April 6, 1948, Serial No. 19,308
6 Claims. (Cl. 29—235)



3. An apparatus for positioning a bumper flange on one of the members of a vibration mounting of the type consisting of inner and outer concentric radially spaced members separated by an annular ring of rubber to produce a mounting having a predetermined deflection for a given load comprising a frame, a substantially horizontal lever pivotally mounted intermediate its ends on said frame and provided with an opening on one side of the pivot point, a weight pivotally suspended from said lever on the other side of said pivot point, a plate horizontally pivoted in said opening on said lever with the pivot axis of said plate being parallel to the pivot axis of said lever, said plate being adapted to support the outer concentric member and provided with a central opening, a supporting element in alignment with the central opening of said plate and providing support for the inner concentric member, a cam mounted on said frame in turn supporting said supporting element provided with means for rotating said cam to raise said supporting element to compensate for variations in the distance between the bottoms of the inner and outer concentric members in the unloaded condition, a plunger mounted on the frame over said plate for clamping the inner concentric member against the supporting element, a vertically-reciprocable member concentric with the axis of said plunger for progressively moving a bumper flange axially on one of the concentric members and against the annular ring of rubber, said plunger being moveable relative to said vertically-reciprocable member, said vertically-reciprocable member being provided with a die for engaging said bumper flange, a deflection indicating mechanism mounted between said frame and said lever

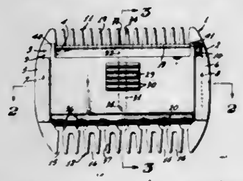
for indicating the axial displacement of the outer concentric member, and a stop for preventing extreme rotation of said lever about its pivot point.

2,641,054
SPLIT COLLAR MOUNTING TOOL
William J. Williams and James W. E. Hanes, Ventura, Calif., assignors to Ventura Tool Company, Ventura, Calif., a corporation of California
Application March 25, 1950, Serial No. 151,922
4 Claims. (Cl. 29—236)



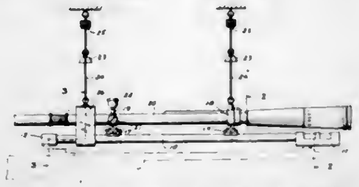
1. In a split annulus mounting tool, a separable and contractible split band, a handle lever secured to and extending generally radially from the split portions of the band, both levers being capable of being gripped simultaneously and movable relative to each other for separating or contracting the band circumferentially, a jaw member mounted to slide longitudinally on and to rotate about one of the levers, said member having a jaw portion at one end adapted to extend generally radially inwardly beyond the inner portion of the band and adapted to be shifted to the diametrically opposite side of the lever, and a spring for urging the jaw member inwardly of the band.

2,641,055
HAIR TRIMMER
Warren M. Mansfield, Glendale, Calif., assignor, by mesne assignments, to Cutter Corporation, a corporation of Delaware
Application March 12, 1948, Serial No. 14,611
3 Claims. (Cl. 30—30)



1. A combined razor, comb and hair trimmer comprising a body member having longitudinal flexibility and having a set of comb teeth projecting from opposite sides thereof, said sets having bases more closely spaced than the width of a double edge blade, the base of the teeth of one of said sets and the whole of one side and base of the other set being flush with one side of said body member and forming a flat razor blade receiving surface wider than a usual double edge blade, said one set having short slots out of range of said surface, each end of said body member terminating in a guideway extending parallel to the length of all of said teeth, a non-planar resilient slide narrower than the width of a double edge blade adapted to be flexed to fit in said guideways and adapted by its resilient action to bend said body lengthwise and frictionally and slidably hold the blade on said surface, said slide when unflexed having an overall depth greater than the depth of the space between said guideways and said one side of said body member, said guideways being open at one end thereof adjacent said other set of teeth for insertion and removal of said slide, a combined guide and razor blade lug extending crosswise at the rear center of said slide and a cooperating guide recess in said side of said guide body member, said recess being open at one end and extending lengthwise through certain of the teeth of said other set, and a finger piece at the front of said slide, said slide being adjustable in said guideways for adjusting the blade (1) to overlie said bases of both of said sets of teeth at the same time, and (2) removed from the base of said one set and at various positions along the full length of said other set.

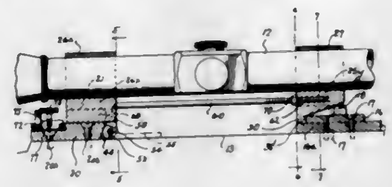
2,641,056
APPARATUS FOR TESTING AND ADJUSTING GUN SIGHTS
Paul H. Eccleston, Ilion, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application September 12, 1951, Serial No. 246,194
2 Claims. (Cl. 33—46)



2. Means for testing the line of sight through standard rifle sights, comprising a mounting bar, a sighting telescope adjustably mounted on said bar, front locating means on said bar constructed and arranged to be reproducibly seated upon a front rifle sight to position the forward end of said bar with its axis in predetermined relation to said front sight, and rear locating means comprising a block secured on said bar and formed to define a flat lower surface adapted to be supported on the upper side of an open iron sight, and a key mounted on said block in axial parallelism with said bar and adapted to be engaged in the notch of an open iron sight.

2,641,057
TELESCOPE MOUNTING
Joseph M. Moore, Bremerton, Wash.
Application March 2, 1951, Serial No. 213,540
2 Claims. (Cl. 33—50)

1. A telescope mounting means comprising front and rear blocks adapted to be secured to a gun in fixed spacing along the gun barrel, said blocks each having laterally spaced wings upstanding therefrom and lengthwise of the barrel, and having adjacent end surfaces formed by an undercut bevel; mountings adapted to be applied to a telescope barrel, lengthwise thereof and in a spaced relationship corresponding to the spacing of the blocks; each mounting having a rib formed thereon lengthwise of the telescope, said ribs being adapted to be snugly received between the wings of corresponding blocks to establish the functional alignment of the telescope with the gun barrel; one of said ribs having a depending shoulder formed across its inner end and having its under surface sloping therefrom toward the telescope, thus permitting the shoulder to be hingedly engaged with the

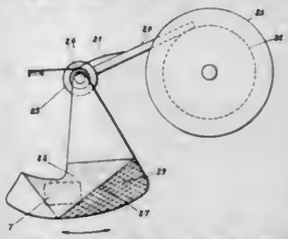


beveled end surface of the corresponding block before the rib of the other mounting has been disposed between the wings of the other block, and means on the said other mounting to engage in clamping contact with the beveled end surface of said other block after both ribs have been received between the wings of the blocks.

2,641,058
THICKNESS INDICATOR
Foster D. McCormack, International Falls, Minn., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Application July 20, 1951, Serial No. 237,741
4 Claims. (Cl. 33—148)

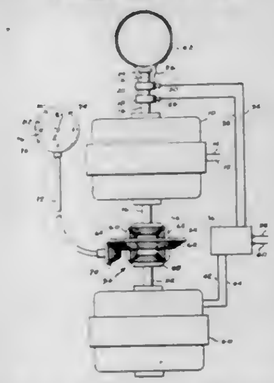
1. In combination with a conveyor for fiber composition board, means for indicating variation from desired thickness of fiber composition board carried by the conveyor comprising a rotatably mounted roll, a frame including a horizontally extending substantially U-shaped member and a substantially vertically extending substantially U-shaped member connected to the horizontally extending U-shaped member at points spaced apart from its ends; a member connecting the two U-shaped members at substantially the mid-point of the U-shaped members, the frame pivotally connected to a support, and means connected to the U-shaped vertical member of the frame for transmitting upward and downward movements of the roll.

2,641,059
FOOTAGE INDICATOR FOR MOTION-PICTURE CAMERAS
Jacques Broido, Carouge-Geneva, Switzerland
Application June 26, 1950, Serial No. 170,301
In France February 14, 1950
3 Claims. (Cl. 33—172)



1. A footage indicator for motion picture cameras having a feeling lever, spring means to apply said lever upon the cylindrical surface of the film roll and a dial movable in front of a viewing opening provided in the wall of the camera, said indicator comprising a shaft pivotally arranged in the camera to support said lever and dial and extending outside of the camera, and a control knob secured to the outer end of said shaft, whereby said feeling lever is strongly applied upon the film roll before the reading of the dial.

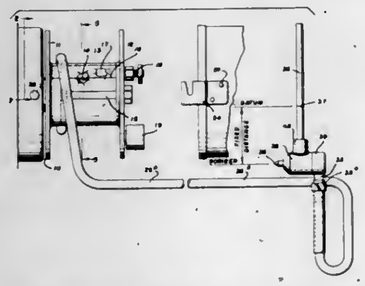
2,641,060
EARTH INDUCTOR COMPASS ASSEMBLY
Kenneth W. Sweeton, Portland, Oreg.
Application September 4, 1951, Serial No. 245,002
4 Claims. (Cl. 33—204)



1. An earth inductor compass assembly comprising a drive motor, an inductor rotor connected to the drive motor and adapted to generate alternating current when rotated by the drive motor in the earth's magnetic field, a synchronous electric motor in an electric circuit with the inductor rotor and driven at a rate proportional to the frequency of the current generated by the rotor, a differential gear assembly one of the gear members of which is connected to the drive motor and another of the gear members of which is connected to the synchronous motor, the two said gear members rotating at uniform rates when the speed of the synchronous motor is determined solely by

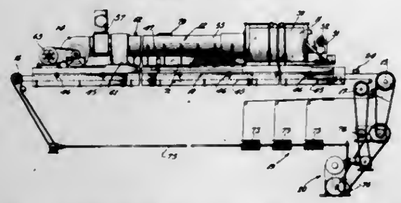
the speed of the drive motor, but at a differential rate when the speed of the synchronous motor is determined in part by the rotation in the earth's magnetic field of the compass assembly including the inductor rotor, the differential rate being proportional to the degree of such rotation of the compass assembly, and indicating means connected to the differential gear assembly for indicating the degree of rotation of the compass assembly.

2,641,061
HYDROSTATIC LEVEL
Charles E. Schmidt, Ocean Springs, Miss.
Application January 8, 1951, Serial No. 205,012
12 Claims. (Cl. 33—209)



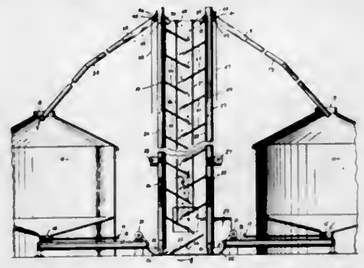
1. An improved hydrostatic level comprising a liquid reservoir, a hydrostatic tube having one end communicating with the liquid in said reservoir, a distant level reading sight, a normally closed valve between said sight and the other end of the tube, and a scriber connected to said valve in such relation to open the valve when applied to scribe a mark.

2,641,062
APPARATUS FOR DRYING YARN AND THE LIKE
Edward A. Wentz, Jersey City, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application December 21, 1948, Serial No. 66,493
23 Claims. (Cl. 34—44)



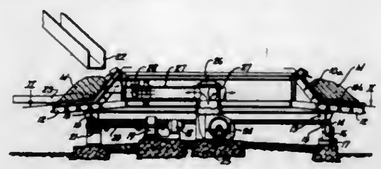
20. In apparatus for drying yarn and the like, the combination of a drying chamber, means for advancing yarn through said chamber, means for supplying a drying medium to said chamber, means responsive to the breakage of the yarn for rendering said yarn advancing means and said drying medium supplying means ineffective, and means responsive to the failure of said drying medium supplying means for rendering said yarn advancing means ineffective independently of said breakage responsive means.

2,641,063
GRAIN DRIER
Benjamin F. Greiman, Garner, Iowa
Application June 9, 1950, Serial No. 167,079
5 Claims. (Cl. 34—102)



1. In a dryer for grain or the like, a vertical housing member, two vertical rows of spaced apart baffle members respectively extending towards each other from opposite sides of the interior of said housing member and arranged so that the inner end portions of said baffle members on one row are in overlapping spaced relationship with the like portion of said baffle members on the other row, grain elevating means vertically secured to said housing member; said grain elevating means communicating with the interior of said housing member at the bottom thereof and designed to communicate at the bottom with a source of grain supply, an outlet at the top of said grain elevating means communicating with the interior of said housing member, means to selectively open and close said outlet, a second outlet at the top of said grain elevating means, a perforated sleeve member secured at one end to said second outlet and at its other end designed to communicate with a point of deposit for grain, means to selectively open and close said second outlet, means within said housing member designed to direct the flow of grain to the point of communication between said grain elevating means and the bottom of said housing member.

2,641,064
ROTARY COOLING APPARATUS
Newton F. Foner, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application December 26, 1951, Serial No. 263,149
4 Claims. (Cl. 34—185)



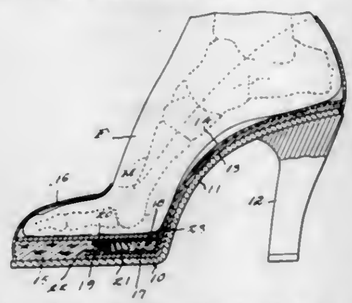
1. A rotary cooling apparatus comprising an annular double-walled sloping table adapted to support a mass of material for cooling, means rotatably supporting said table, drive means for rotating said table, a system of partitions and baffles between the double walls of said table defining air courses having inlets and outlets, a swivel duct concentric with said table, ducts connecting said swivel duct with the inlets to said air courses, and means for supplying air to said swivel duct, the outlets from said air courses being situated adjacent the inner circumference of said table and arranged to direct the air downwardly over the table top.

2,641,065
TELLURIAN
Frank E. Bradley, North Hollywood, Calif.
Application August 29, 1951, Serial No. 244,197
6 Claims. (Cl. 35—45)



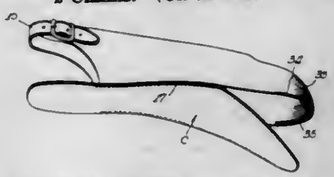
2. A tellurian comprising a fixed standard disposed at an angle of 23½ to the vertical and mounting a sun-simulating lamp, a bracket mounted on the standard for rotation around the axis of said standard, a hollow cantilever arm affixed to the bracket and having a free end movable with the bracket around said lamp, a flexible rod extending through the hollow of and beyond the ends of said cantilever arm, a pendulous earth-simulating globe attached to the end of said rod that extends from the free end of the arm, drive means connected to the other extending end of the rod to rotate the same and the globe, said drive means comprising a sprocket gear affixed to the standard, a sprocket pinion connected to said other extending end of the rod, and a chain interconnecting said gear and pinion, and drive means to move said latter end of the rod in a circular path around the lamp while the globe, due to its pendulous attachment, moves in a circular path eccentric to the path of the rod end.

2,641,066
METATARSAL LENGTH COMPENSATING DEVICE
Laurin Filardo, Los Angeles, Calif.
Application September 5, 1950, Serial No. 183,187
18 Claims. (Cl. 36—8.5)



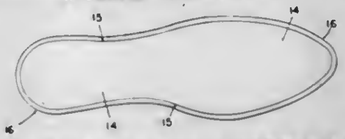
1. In a shoe construction having an outsole, an upper and an insole, a platform between the insole and outsole, a flexible flat casing at the rear of the platform and limited in area by the area of the region of the ball of the foot, fluid means in said casing, and a resilient cushion strip interposed between the forward edges of said casing and the adjacent rear portion of said platform.

2,641,067
SHOE VAMP CONSTRUCTION
Joseph Nappi, Brooklyn, N. Y., assignor to La Marquise Footwear, Inc., a corporation of New York
Application May 26, 1948, Serial No. 29,259
2 Claims. (Cl. 36—16)



1. An article of footwear comprising a combination midsole and sock-lining, an upper comprising a piece of fabric curved at its forward end and having a non-elastic cord stitched at the under edge of said forward end to maintain said edge under tension and thereby form the convex vamp, said upper being stitched about its edge to the said combination sole, said stitch extending transversely through said cord, a wrapper stitched with its reverse face outermost about the periphery of the upper and the combination sole, said wrapper extending downward over and about the rim of said combination sole and having a border cemented under the latter, a heel having a shank cemented under said combination sole and an outsole cemented under said heel and the under face of said combination sole.

2,641,068
REVERSIBLE INSOLE
Clifford James Thompson, Davenport, Fla.
Application April 4, 1950, Serial No. 153,960
2 Claims. (Cl. 36—44)

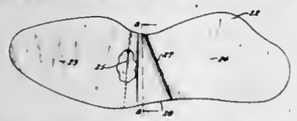


1. An insole for protection of the wearer against cold or heat, depending upon which face of the insole is toward the bottom of the shoe, boot, or other outer foot covering, said insole including a flexible durable material forming an outside layer to take care of wear and to retain the shape of the insole, a fabric impregnated with aluminum for reflecting heat forming the other outside layer of the insole, a black heat absorbing material between the two outside layers, and thermoplastic adhesive securing together as a single unit the stated materials.

2,641,069
COMPOSITE INNERSOLE CONSTRUCTION
George E. Musebeck, Oconomowoc, Wis., assignor to Musebeck Shoe Company, Oconomowoc, Wis., a corporation of Illinois
Application May 7, 1951, Serial No. 224,993
4 Claims. (Cl. 36—71)

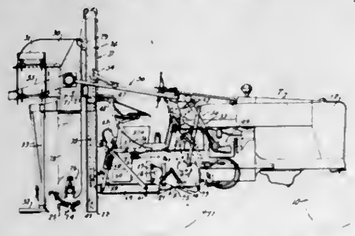
1. A composite innersole construction for shoes comprising a lower layer and an upper layer joined together, said upper layer comprising a forepart and a backpart and said parts overlapping in a substantially triangular area approximately midway of the length of the inner sole, a side of said triangular area being located

adjacent the outer edge of the inner sole to provide an extra thickness adjacent said edge, said overlapping parts having complemental portions



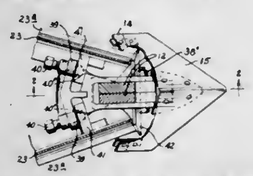
of reduced thickness which interfit to prevent any substantial increase in thickness at the opposite edge of the innersole.

2,641,070
ENDLESS CONVEYER DITCHING MACHINE
Robert N. Bennett, McComb, Ohio
Application April 1, 1948, Serial No. 18,411
8 Claims. (Cl. 37—90)



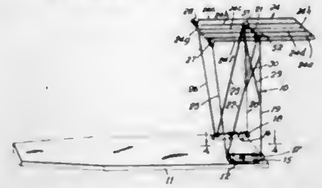
1. A trenching machine comprising a power driven tractor, an excavating unit of the boom type disposed in rear of said tractor, said unit including a vertically disposed supporting frame and a vertical reciprocable digging boom carried by said frame, a mounting connection between said excavating unit and tractor whereby the excavating unit may be rocked upwardly and forwardly for roading purposes, said mounting including pivotal supporting means for said unit, and power means for effecting such rocking movement, said power means being also operable to exert pressure to hold the digging boom in digging position.

2,641,071
PLOW AND MOLDBOARD ADJUSTMENT FOR DITCH DIGGING PLOWS
Charles H. Brown, Breckenridge, Tex.
Application May 19, 1948, Serial No. 27,919
3 Claims. (Cl. 37—98)



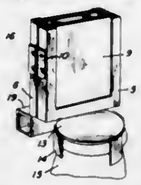
1. In a ditch forming implement adapted to be attached to a tractor, the combination of an earth opening plow having diverging sides, a pair of moldboard blades projecting outwardly from the plow in diverging relation, a bifurcated member, means pivotally connecting said member with the plow, said member having laterally projecting lugs on opposite sides thereof, lugs attached to the blades and extending inwardly in overlapping relation with the first-mentioned lugs and having recesses therein, and screws threaded through the first-mentioned lugs and engaged in said recesses adjustably and pivotally securing the blades to the member.

2,641,072
FOLDABLE CLOTHESRACK FOR IRONING BOARDS AND THE LIKE
Mildred V. Maher, Jamaica, N. Y.
Application February 16, 1950, Serial No. 144,541
3 Claims. (Cl. 38—106)



2. A foldable clothes rack for ironing boards and the like, comprising a pair of base members which are attachable to the ironing board, a pair of arms which are pivotally mounted on said base members, a pair of uprights which are pivotally supported at their lower ends by said arms, a rack which is pivotally supported intermediate its ends on the upper ends of said uprights, a pair of struts which are pivotally connected at their lower ends to the base members on axially aligned pivots, and pivotally connected at their upper ends to the upper ends of the uprights, the pivotal connections between the rack and the upper ends of the uprights, and the pivotal connections between the upper ends of the uprights and the upper ends of the struts, being coaxial with each other, and a second pair of struts which are pivotally supported at their lower ends by said base members on the same aligned pivots which support the first pair of struts on said base, and pivotally connected at their upper ends to said rack adjacent the upper ends of said uprights, said pivotal connections at the upper ends of said second pair of struts being slidably connected to said rack for movement toward and away from said coaxial pivotal connections.

2,641,073
ORDER INDICATOR
Joseph W. Major, Painesville, Ohio
Application October 11, 1948, Serial No. 53,887
1 Claim. (Cl. 40—4)



A device for holding ordering messages at the top of a bottle comprising a cap for said bottle, a first U-shaped card holder mounted at its bottom on said cap in upright position at one side of said cap for displaying an ordering card at the corresponding side of the bottle, a second U-shaped ordering card holder, said card holders having vertical side edges hinged together for swinging of the second card holder over said cap into flat engagement with the first card holder to conceal a message on an ordering card in the second holder, said second card holder being swingable on said hinge into coplanar relation with the first card holder to display the message concealed when the card holder was swung flat against the first hard holder, said edges abutting in the coplanar relation of said card holders to establish the coplanar relation of the card holders.

2,641,074
IDENTIFICATION DEVICE
Paul P. Richmond, Kansas City, Mo.
Application July 12, 1948, Serial No. 38,301
13 Claims. (Cl. 40—19)



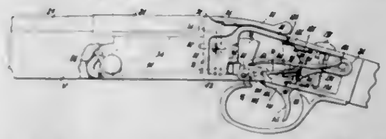
11. An article of the character described, comprising an elongated strip of generally rectangular outline, a transparent tube whose bore conforms to but is slightly larger than the cross section of the strip taken along a plane normal to the longitudinal axis of the strip, whereby the strip is slidable in an endwise direction into the bore of the tube, a series of yieldable deformable tufts on the strip spaced at intervals along one longitudinal edge thereof, said tufts frictionally engaging the bore of the tube to resist longitudinal displacement of the strip after insertion of same into the tube, and said strip bearing indicia visible through the transparent wall of the tube.

2,641,075
CONSTRUCTION OF STREET SIGNS
Maurice M. Saul, Evanston, Ill.
Application January 17, 1951, Serial No. 206,355
1 Claim. (Cl. 40—125)



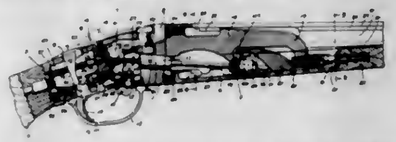
A street sign comprising an elongated U-shaped frame, a pair of co-extensive stencil plates, one on each side of said frame, said frame and said stencil plates having a pair of aligned bolt holes positioned along one narrow edge of said stencil plates and the short leg of said U-shaped frame, a bracket, a pair of bolts on said bracket for attachment to said frame and stencil plates through said aligned bolt holes, a back plate for removable endwise insertion into said frame between said stencil plates, said stencil plates having a second pair of aligned bolt holes positioned along the other narrow edge of the same, said back plate having raised detents thereon for engagement with said second pair of bolt holes for holding said back plate in place, said two sets of holes being of the same size and similarly located at the ends of said stencil plates so that the same may optionally be assembled with said U-shaped frame to have its open end facing either narrow end of said stencil plates.

2,641,076
SINGLE TRIGGER FIRING MECHANISM FOR DOUBLE-BARRELED GUNS
Frederick J. Crory, Durham, N. H., assignor to Morrone Manufacturing Co., Inc., Westerly, R. I., a corporation of Rhode Island
Application February 17, 1948, Serial No. 8,781
3 Claims. (Cl. 42—42)



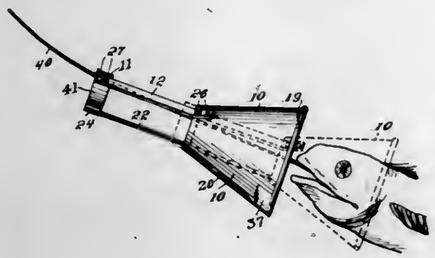
2. In a double barreled gun action, a frame, a single sear pivot pin supported therein, two sears pivoted on said pin, a single trigger also pivotally mounted on the sear pivot pin, a slot in said trigger, and means mounted in said trigger slot to rock said sears in succession when the trigger is pulled, said last named means being mounted for a longitudinal rocking movement on a pin through its lower extremity.

2,641,077
COCKING MECHANISM FOR DOUBLE BARREL UPWARD TILTING BREECH FIREARMS
Donald S. Foote and Eugene S. Atwell, Ilion, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application September 13, 1949, Serial No. 115,344
3 Claims. (Cl. 42—43)



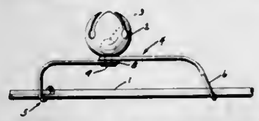
1. In an upward tilting breech firearm having a frame provided with a spring-urged striker, a fire control mechanism for said striker, a standing breech, and a barrel hinge pin; a barrel assembly tiltable about said hinge pin; and a locking bolt reciprocably mounted in the standing breech for movement into engagement with the barrel assembly to lock the breech end of said barrel assembly in engagement with the standing breech; the combination comprising a cocking rod; a front bearing for said cocking rod mounted in said hinge pin; a rear bearing for said cocking rod formed by a bore passing through the locking bolt, said cocking rod being supported in said bearings with freedom for reciprocation; a fore-end mounted on said barrel assembly to tilt therewith about said hinge pin; a cam mounted in said fore-end and shaped to define a portion relatively remote from said hinge pin engaging the end of said cocking rod when the breech end of said barrel assembly engages the standing breech and movable with the barrel assembly as the same is tilted about said hinge pin to successively bring into engagement with the end of the cocking rod portions of the cam which are progressively less remote from the hinge pin, thereby converting tilting movement of said barrel assembly into reciprocation of the cocking rod; and flanged means mounted directly on the rear end of said cocking rod and directly engageable with the striker to move same to cocked position as said barrel assembly is tilted.

2,641,078
FISH LANDING FUNNEL
William F. Gearien, Hamilton, Ill.
Application November 30, 1951, Serial No. 259,083
1 Claim. (Cl. 43—5)



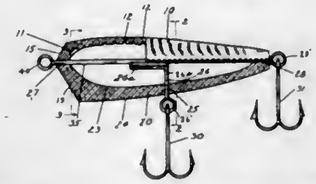
In a fish landing funnel, the combination which comprises a frusto conical shaped body, a ring spaced from the small end of the body, arms extending from the body and attached to the ring to space the ring from the body, said body and ring having aligned slots in one of the sides thereof, resilient fingers with meeting extended ends carried by the body and ring and extending over the slot thereof, fingers with spaced extended ends extending from the inner surface of the ring and guide rods corresponding with the edges of the slots extending from the body to the ring.

2,641,079
AUDIBLE SIGNAL AND DETACHABLE SECURING MEANS FOR FISHING RODS
Stanley Edward Oster, Cleveland, Ohio
Application June 9, 1949, Serial No. 98,046
1 Claim. (Cl. 43—17)



A signal device for a fishing rod, comprising, in combination, a hanger member consisting of a single piece of spring wire formed with a helix portion at one end thereof, a tail hook portion at the other end thereof, and a body portion intermediate said other named portions, said helix portion being constructed to coil partially around said rod and having parts spaced axially along the axis of said helix portion a distance less than the diameter of said rod, between which parts a portion of the rod, intermediate the ends thereof, may be inserted by snap action of said parts for disposing the helix portion in coiled relation around said rod, the intermediate body portion being movable under spring action relative to said helix portion, the tail hook portion being constructed and arranged to receive a portion of the rod under spring action of the intermediate body portion when the helix portion is disposed in said coiled relation around said rod and the intermediate body portion is moved under spring action relative to said helix portion, said spring action of said body portion causing the helix portion to grippingly engage the rod to secure the hanger thereto against displacement relative to the rod, said body portion being formed with a constricting loop portion integral with said body portion and intermediate the helix portion and tail hook portion, a vibration actuated audible signal instrumentality, and a connector member on the latter engaged by the constricting loop portion encircling said connector member for securing the instrumentality to the hanger member.

2,641,080
FISH LURE
Gary E. Wise, Cleveland, Ohio, assignor to Holdenline Company, Cleveland, Ohio, a corporation of Ohio
Application June 17, 1949, Serial No. 99,759
1 Claim. (Cl. 43—42.36)



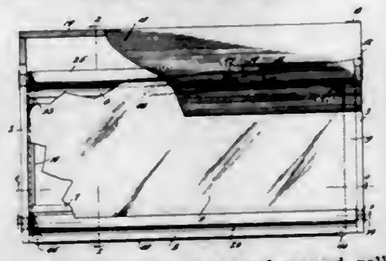
A fish lure including a body and hooks, said body comprising a curved upper portion having a substantially smooth external surface, the internal surface of said portion having depressions and the external and internal surfaces forming a converging meniscus, and a lower portion having walls forming a V-shape in cross section and prismatically formed and generally hollow, said upper and lower portions of the body having means therebetween to hermetically seal the joint between the portions, a rod extending lengthwise through the body and located between the portions and having securing means at the end thereof, one of said securing means being adapted to engage a line and the other to engage a hook.

2,641,081
LURE WITH IMPROVED WEED GUARD
Henry S. Moore, Clarksdale, Miss., assignor of one-half to Francis M. Boone, Clarksdale, Miss.
Application November 14, 1950, Serial No. 195,517
2 Claims. (Cl. 43—42.42)



1. A fishing lure comprising a buoyant body shaped to represent a predetermined creature, a fishhook having a shank embedded in said body and a barbed bill portion spaced rearwardly, from and facing the forward end of said body, underlying the ventral portion of the body and situated adjacent to the trailing end of said body, and a single weed guard attached at its upper end to the forward end portion of said body and having its major portion depending below said ventral portion, said weed guard being in the form of a circular loop of a diameter appreciably greater than the cross-section of said body, said loop being at an approximate right angle to the longitudinal axis of said body when at rest, being constructed of small gage flexibly resilient material and being spaced a predetermined distance from the barbed bill portion of said hook that it may be flexed rearwardly toward said ventral portion as well as toward said bill portion, said bill portion being in a plane which is in spaced parallelism with the axis of said body, a plane which is below the approximate axial center of said loop when the latter is at rest.

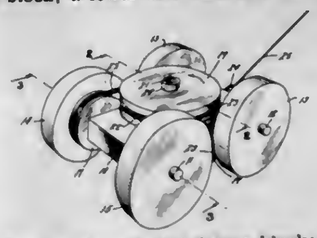
2,641,082
DRAFTING TABLE
William R. Stults, Jacksonville, Fla.
Application May 17, 1950, Serial No. 162,532
1 Claim. (Cl. 45—131)



In a drafting table, first and second rollers arranged in spaced parallel substantially horizontal relationship thereon, bearings rotatably supporting the ends of said rollers, a flexible web greater in length than the distance between said rollers secured at its ends to the latter, a continuous cord secured at one end to one end of said first roller thence extending forwardly in a direction at substantially right angles to said rollers to and beneath the adjacent end of said second roller, a pulley adjacent to the said adjacent end of said second roller, said cord passing over said pulley and thence parallel with said latter roller to the opposite end thereof, a second pulley adjacent to said opposite end of said second roller, said cord passing over said last named pulley and thence reawardly to and over a guide pulley near the adjacent end of said first roller and then inwardly of the latter and in parallelism therewith to and around a pulley disposed intermediate the ends of said first roller, thence in reverse direction and over a floating sheave, thence again reversing in parallelism with and to the opposite end of said first roller, a pulley adjacent to the end of the last named roller, said cord passing over said pulley thence forwardly therefrom and permanently connected to the adjacent end of said second roller, and a contractile spring supporting said floating sheave to maintain the said continuous cord in tightened relationship.

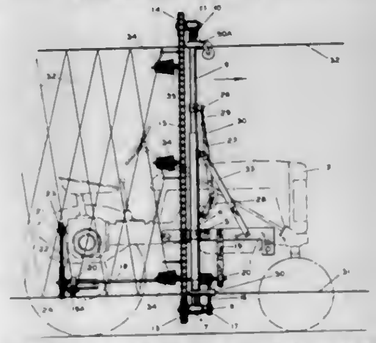
2,641,083
WHEEL ACTUATED DISPLAY TOY
Alfred John Charles, Denver, Colo.
Application May 9, 1952, Serial No. 286,973
4 Claims. (Cl. 46—204)

1. A wheeled toy comprising: a substantially horizontal frame block; a front and rear axle member passing through said frame block in substantially parallel relation; front wheel members mounted on said front axle member; rear wheel members mounted on said rear axle member; a drive pulley mounted on said rear axle member and affixed to one of said rear wheels; an idler pulley mounted on said rear axle member adjacent the other rear wheel and being free to rotate independently of the latter; an upper disc rotatably mounted on the upper surface of said frame block; a lower disc rotatably mounted on



the lower surface of said frame block; and an endless belt passing about both of said discs and about both of said pulleys.

2,641,084
STRING WRAPPING MACHINE
Elbert Lee Estes, Woodburn, Oreg.
Application September 16, 1950, Serial No. 185,285
6 Claims. (Cl. 47—1)

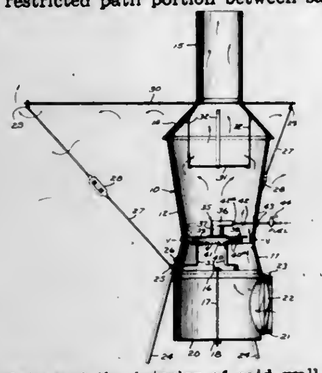


1. A machine for wrapping string about spaced-apart parallel wires supported on posts as for climbing vines and for application to a propelled vehicle having drive means, comprising a telescopic standard adapted to be supported on a tractor, sprocket wheels mounted at the top and bottom of the telescopic standard, a detachable endless chain trained around the sprocket wheels, spaced-apart spindles mounted on the chain, rotatable hubs on the spindles to receive cones of string, friction means between the spindles and hubs to govern the rotation of the hubs when string is payed out, string guides projecting from the chain, and guides formed with slots to receive upper and lower strands of wire around which string is to be wound, said guides being attached to and projecting from the upper and lower ends of the telescopic standard, and means for operating the chain and simultaneously advancing the bar and chain parallel with the wires.

2,641,085
HEATER FOR FIELDS, ORCHARDS, AND THE LIKE
Joseph D. Robinson, Winter Park, and Henry A. Simpson, Oviedo, Fla.; said Simpson assignor to said Robinson
Application September 21, 1950, Serial No. 186,042
6 Claims. (Cl. 47—2)

1. In a heater of the class described, a casing for confining a column of uprising air and having

an inlet leading to the atmosphere adjacent to its lower end, a burner unit disposed intermediate the interior height of said casing and comprising a diffuser plate substantially concentric with the casing and extending outwardly into close proximity with the interior of the casing wall to define a restricted path portion between said diffuser plate and the interior of said wall, a distributing chamber below said diffuser plate having a substantially vertical wall with radially spaced fine apertures directed outwardly toward said wall and disposed in a plane below the plane of said diffuser plate, and a fuel preheater chamber above said diffuser plate communicating with a source of gravity-fed fuel and with said distributing chamber.



2,641,086
GARDENIA SUPPORT
Daniel Stephen Shinoda, Hayward, Calif.
Application November 13, 1946, Serial No. 709,645
3 Claims. (Cl. 47—55)



3. An ornamental support for gardenias formed from a blank of thin ductile metal and comprising a separable calyx receiving and retaining portion having barbs adapted to grip the calyx of a flower inserted thereinto, a plurality of foliage support members integral with and disposed at substantially right angles to the top edge of said calyx receiving and retaining portion when a calyx is positioned in said calyx receiving and retaining portion, said plurality of foliage support members spaced laterally from one another and being of substantially uniform size and shape, an elongated stem member integral with said calyx receiving and retaining portion and depending from the bottom thereof, and a resilient plastic covering for said stem member and calyx receiving and retaining portion.

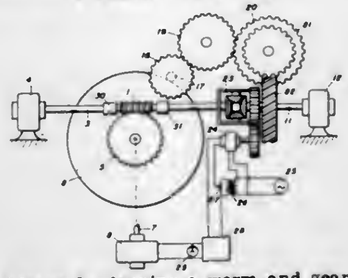
2,641,087
REMOTE CONTROL VALVE FOR HEAVY DUTY SANDBLAST HOSE
Howard A. Greiser, San Jose, Calif.
Application March 26, 1951, Serial No. 217,508
9 Claims. (Cl. 51—12)

6. In a sandblast nozzle having a body provided with a tubular passage in which is confined a latex liner in axial alignment with the discharge end of a sandblast line, the combination therewith of means for controlling the flow of compressed air and sand through said latex liner comprising a lever actuated arm pivotally mounted on said body for swinging movement in a plane including the axis of the tubular passage in said body, said body having an opening in its periphery exposing a portion of said latex liner adjacent said arm, a pad on said arm adapted to register with said opening in said body, a lever



pivotally mounted on said body for swinging movement in said plane and having a cam surface engageable by said arm under the influence of the liner expanding force of the compressed air and sand passing through said liner, and stop means on said body for engaging the free end of said lever for limiting movement thereof in one direction beyond a point wherein said pad is in register with said opening formed in said body to thereby maintain said expanded latex liner within the confines of the passage formed in said body.

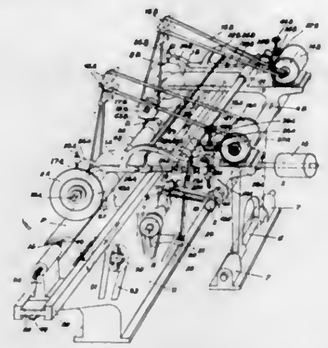
2,641,088
WORM GEAR LAPPING APPARATUS
Doyle E. Wilcox, Inglewood, Calif., assignor to North American Aviation, Inc.
Application September 26, 1949, Serial No. 117,752
9 Claims. (Cl. 51—26)



4. Means for lapping a worm and gear combination comprising means for rotating said worm at constant angular velocity, means having an output in electrical form for comparing the resultant rotation of said gear with the rotation of said worm, and means, including a torque motor and a controller therefor, responsive to said comparing means for applying a retarding torque to said gear by an amount proportional to the output of said comparing means to thereby cause said worm and gear to be lapped without appreciable error.

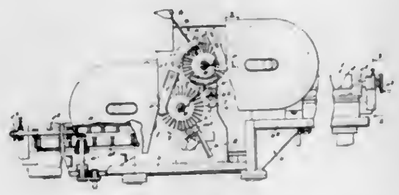
2,641,089
METHOD AND MEANS FOR THE REPRODUCTION BY GRINDING
Eugène Fouquet, Bois-Colombes, France
Application August 28, 1951, Serial No. 244,060
In France July 24, 1951
11 Claims. (Cl. 51—101)

1. In the method of reproduction by grinding by means of a follower roll continuously following a pattern and a grinding wheel, simultaneously and continuously machining a work piece and gradually becoming reduced in diameter, said follower roll and said grinding wheel having equal diameters and similar working profiles, the improvement which comprises continuously and automatically effecting, during the



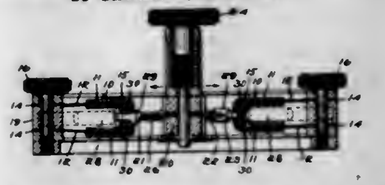
machining of the work piece by the grinding wheel and in synchronism with the reduction in diameter of said grinding wheel, equal reductions in the diameter of said follower roll, while maintaining similar working profiles on said grinding wheel and said follower roll.

2,641,090
MACHINE FOR FASHIONING END PORTIONS OF PRISMATIC BODIES
Deltan L. Leslie, Birmingham, and Reino H. Mustonen, Detroit, Mich., assignors to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan
Application April 2, 1951, Serial No. 218,832
7 Claims. (Cl. 51—108)



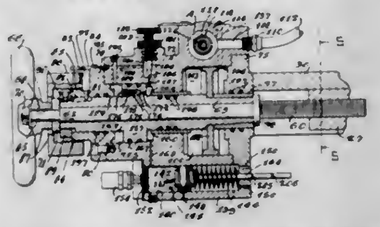
5. In a machine for fashioning end portions of prismatic bodies, a continuously rotating work holder and carrier having a series of generally radially extending peripherally open sockets for successive loading with prismatic bodies to hold the same with their outer ends exposed, a rotary cutter positioned to fashion the outer end portion of each of said bodies during continuous movement thereof with said holder, means for clamping each in its socket while operated upon by said cutter, and a loading means including a shuttle, a supply conduit for prismatic bodies connected thereto, and means for oscillating said shuttle to move with said holder in registration with a socket thereof in one phase of its oscillation and to shift into registration with another socket in the opposite phase of its oscillation.

2,641,091
APPARATUS FOR SHARPENING RAZOR BLADES AND OTHER BLADES
Walter S. Bucklin, Brookline, Mass.
Application July 30, 1948, Serial No. 41,546
18 Claims. (Cl. 51—153)



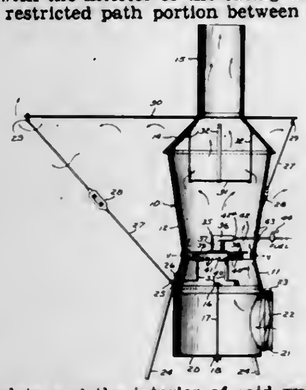
18. A blade sharpener comprising, in combination, two frames constructed and arranged with provision for one of them to slide to and fro within the other; a pair of strops, means to hold said strops spring-pressed together in one of those frames; means to hold a blade on the other said frame with its cutting edge toward the strops; strop-separating means on said last named frame for causing the blade to enter and be clasped between them, and means supporting said separating means on one frame and connected to the other frame for the separating means to be actuated by the propulsion of the frames together.

2,641,092
ACTUATOR FOR MACHINE ELEMENTS
Clifford L. Garrison, Adrian, Mich., assignor to Oliver Instrument Company, Adrian, Mich., a corporation of Michigan
Application August 11, 1951, Serial No. 241,462
10 Claims. (Cl. 51—165)



1. In combination, means for actuating a relatively movable machine element including a housing associated with the element; said housing being formed with a chamber; a member having a portion extending into said housing; said member having a wall separating the chamber into two compartments; means for selectively supplying pressure fluid to said compartments to effect reciprocating movements of said housing and the machine element; means for controlling the rate of travel of said housing and element in one direction including a pair of liquid receiving compartments formed in said housing; means carried by said member defining said liquid receiving compartments; a passage establishing communication between said liquid receiving compartments; an adjustable valve means for regulating the flow of liquid through said passage for determining the rate of movement of said housing and machine element; a reservoir adapted to contain a supply of liquid for said liquid receiving compartments, and means for constantly maintaining said liquid receiving compartments filled with liquid from said reservoir.

an inlet leading to the atmosphere adjacent to its lower end, a burner unit disposed intermediate the interior height of said casing and comprising a diffuser plate substantially concentric with the casing and extending outwardly into close proximity with the interior of the casing wall to define a restricted path portion between said diffuser plate and the interior of said wall, a distributing chamber below said diffuser plate having a substantially vertical wall with radially spaced fine apertures directed outwardly toward said wall and disposed in a plane below the plane of said diffuser plate, and a fuel preheater chamber above said diffuser plate communicating with a source of gravity-fed fuel and with said distributing chamber.



2,641,086
GARDENIA SUPPORT
Daniel Stephen Shinoda, Hayward, Calif.
Application November 13, 1946, Serial No. 709,645
3 Claims. (Cl. 47—55)



3. An ornamental support for gardenias formed from a blank of thin ductile metal and comprising a separable calyx receiving and retaining portion having barbs adapted to grip the calyx of a flower inserted thereinto, a plurality of foliage support members integral with and disposed at substantially right angles to the top edge of said calyx receiving and retaining portion when a calyx is positioned in said calyx receiving and retaining portion, said plurality of foliage support members spaced laterally from one another and being of substantially uniform size and shape, an elongated stem member integral with said calyx receiving and retaining portion and depending from the bottom thereof, and a resilient plastic covering for said stem member and calyx receiving and retaining portion.

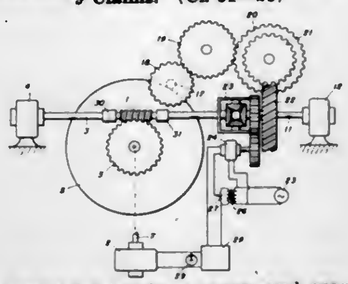
2,641,087
REMOTE CONTROL VALVE FOR HEAVY DUTY SANDBLAST HOSE
Howard A. Greiser, San Jose, Calif.
Application March 26, 1951, Serial No. 217,508
9 Claims. (Cl. 51—12)

6. In a sandblast nozzle having a body provided with a tubular passage in which is confined a latex liner in axial alignment with the discharge end of a sandblast line, the combination therewith of means for controlling the flow of compressed air and sand through said latex liner comprising a lever actuated arm pivotally mounted on said body for swinging movement in a plane including the axis of the tubular passage in said body, said body having an opening in its periphery exposing a portion of said latex liner adjacent said arm, a pad on said arm adapted to register with said opening in said body, a lever



pivotally mounted on said body for swinging movement in said plane and having a cam surface engageable by said arm under the influence of the liner expanding force of the compressed air and sand passing through said liner, and stop means on said body for engaging the free end of said lever for limiting movement thereof in one direction beyond a point wherein said pad is in register with said opening formed in said body to thereby maintain said expanded latex liner within the confines of the passage formed in said body.

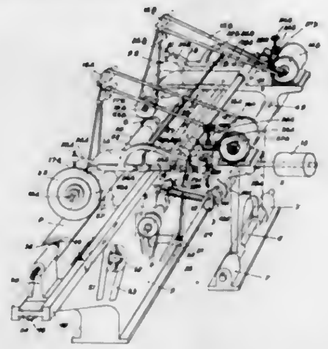
2,641,088
WORM GEAR LAPPING APPARATUS
Doyle E. Wilcox, Inglewood, Calif., assignor to North American Aviation, Inc.
Application September 26, 1949, Serial No. 117,752
9 Claims. (Cl. 51—26)



4. Means for lapping a worm and gear combination comprising means for rotating said worm at constant angular velocity, means having an output in electrical form for comparing the resultant rotation of said gear with the rotation of said worm, and means, including a torque motor and a controller therefor, responsive to said comparing means for applying a retarding torque to said gear by an amount proportional to the output of said comparing means to thereby cause said worm and gear to be lapped without appreciable error.

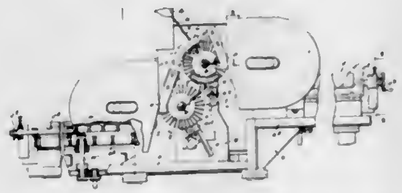
2,641,089
METHOD AND MEANS FOR THE REPRODUCTION BY GRINDING
Eugène Fouquet, Bois-Colombes, France
Application August 28, 1951, Serial No. 244,060
In France July 24, 1951
11 Claims. (Cl. 51—101)

1. In the method of reproduction by grinding by means of a follower roll continuously following a pattern and a grinding wheel, simultaneously and continuously machining a work piece and gradually becoming reduced in diameter, said follower roll and said grinding wheel having equal diameters and similar working profiles, the improvement which comprises continuously and automatically effecting, during the



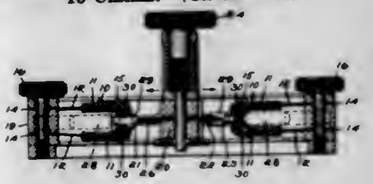
machining of the work piece by the grinding wheel and in synchronism with the reduction in diameter of said grinding wheel, equal reductions in the diameter of said follower roll, while maintaining similar working profiles on said grinding wheel and said follower roll.

2,641,090
MACHINE FOR FASHIONING END PORTIONS OF PRISMATIC BODIES
Deltan L. Leslie, Birmingham, and Reino H. Mustonen, Detroit, Mich., assignors to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan
Application April 2, 1951, Serial No. 218,832
7 Claims. (Cl. 51—108)



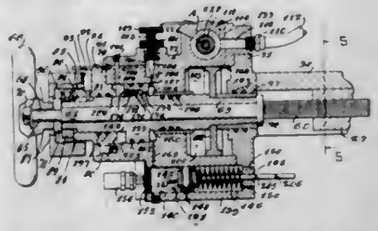
5. In a machine for fashioning end portions of prismatic bodies, a continuously rotating work holder and carrier having a series of generally radially extending peripherally open sockets for successive loading with prismatic bodies to hold the same with their outer ends exposed, a rotary cutter positioned to fashion the outer end portion of each of said bodies during continuous movement thereof with said holder, means for clamping each in its socket while operated upon by said cutter, and a loading means including a shuttle, a supply conduit for prismatic bodies connected thereto, and means for oscillating said shuttle to move with said holder in registration with a socket thereof in one phase of its oscillation and to shift into registration with another socket in the opposite phase of its oscillation.

2,641,091
APPARATUS FOR SHARPENING RAZOR BLADES AND OTHER BLADES
Walter S. Bucklin, Brookline, Mass.
Application July 30, 1948, Serial No. 41,546
18 Claims. (Cl. 51—153)



18. A blade sharpener comprising, in combination, two frames constructed and arranged with provision for one of them to slide to and fro within the other; a pair of strops, means to hold said strops spring-pressed together in one of those frames; means to hold a blade on the other said frame with its cutting edge toward the strops; strop-separating means on said last named frame for causing the blade to enter and be clasped between them, and means supporting said separating means on one frame and connected to the other frame for the separating means to be actuated by the propulsion of the frames together.

2,641,092
ACTUATOR FOR MACHINE ELEMENTS
Clifford L. Garrison, Adrian, Mich., assignor to Oliver Instrument Company, Adrian, Mich., a corporation of Michigan
Application August 11, 1951, Serial No. 241,462
10 Claims. (Cl. 51—165)



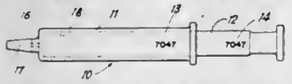
1. In combination, means for actuating a relatively movable machine element including a housing associated with the element; said housing being formed with a chamber; a member having a portion extending into said housing; said member having a wall separating the chamber into two compartments; means for selectively supplying pressure fluid to said compartments to effect reciprocating movements of said housing and the machine element; means for controlling the rate of travel of said housing and element in one direction including a pair of liquid receiving compartments formed in said housing; means carried by said member defining said liquid receiving compartments; a passage establishing communication between said liquid receiving compartments; an adjustable valve means for regulating the flow of liquid through said passage for determining the rate of movement of said housing and machine element; a reservoir adapted to contain a supply of liquid for said liquid receiving compartments, and means for constantly maintaining said liquid receiving compartments filled with liquid from said reservoir.

2,641,093

METHOD OF MANUFACTURING GLASS SYRINGES WITH INTERCHANGEABLE PISTONS AND BARRELS

Samuel Kolodny, Rutherford, Nicholas Micci, Carlstadt, and Nicholas Krueger, East Rutherford, N. J., assignors to East Rutherford Syringes, Inc., East Rutherford, N. J., a corporation of New Jersey

Original application May 25, 1950, Serial No. 164,138. Divided and this application July 5, 1951, Serial No. 235,264
2 Claims. (Cl. 51—283)



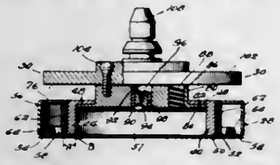
1. The method of manufacturing glass hypodermic syringes, of the same cubic capacity, which comprises providing a plurality of cylindrical glass pistons of substantially the same diameter; precision grinding and optically lapping the surface of each piston to the same predetermined diameter with the tolerance of the diameter at any point along the linear extent thereof being 0.0001 inch; providing a plurality of cylindrical glass barrels of substantially the same internal diameter; and precision grinding and optically lapping the internal surface of each barrel to said same predetermined diameter with the tolerance of the inside diameter at any point along the linear extent thereof being 0.0001 inch; whereby every one of said pistons will have a sliding sealing fit in any one of said barrels and the respective barrels and pistons may be indiscriminately interchanged without affecting the pressure retaining properties of the syringes.

2,641,094

MEAT PATTY FORMING AND SEALING MACHINE

Frederick F. Starzyk, Chicago, Ill., assignor to Tenderet Sales Company, Chicago, Ill., a corporation of Illinois

Application November 23, 1948, Serial No. 61,599
7 Claims. (Cl. 53—55)



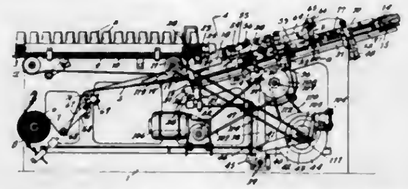
1. A mold for use with a forming and sealing apparatus having a base adapted to receive a mass of plastic comestibles sandwiched between sheets of heat-sealing, air and moisture-proof material, said mold comprising a forming ring mountable on said apparatus for movement into and out of abutting relation with said base and when in abutting relation to effect encompassing of said mass by said sheets and cause partial forming of said mass, a presser plate mounted on said ring for movement independently thereof to effect final forming of said mass when said ring is in abutting relation with said base, means mounted on said ring for instantaneously applying heat to said sheets and effecting a seal thereof contiguous to the periphery of said mass when in final form, and means mounted on said ring for maintaining the periphery of said mass in a relatively cool state during the effecting of said seal.

2,641,095

MACHINE FOR PACKAGING STACKED HOLLOW WARE SUCH AS NESTED PAPER CUPS OR THE LIKE

Wendell T. Burbank, Three Rivers, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan

Application January 13, 1949, Serial No. 70,652
13 Claims. (Cl. 53—88)



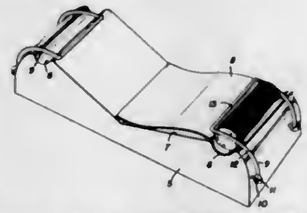
1. In a machine for wrapping nested assemblies of hollow receptacles having outturned rims and recessed bottoms, the combination of an upwardly facing trough-like wrapping way, opposed curved inwardly facing outer side folders disposed at the front end of and complementing said wrapping way and having rearwardly extending outer wrapper supporting arms, an inner former and wrapper support folder cooperating with said way and said opposed side folders and spaced therefrom permitting the passage of a wrapper web therebetween and having inner web supporting arms opposed to and spaced from said outer supporting arms, a transversely curved downwardly facing top folder disposed at the rear of said supporting arms, a transversely curved top former and wrapper support opposed to and extending rearwardly from said top folder in supporting relation to the edges of the wrapper translated therealong, a yieldable transversely ribbed stop member disposed below said top former to successively engage the assemblies to be wrapped, rear folders operatively associated with the rear end of said top former to cooperate therewith in conforming and guiding the wrapper into a tubular form with overlapping edges, means for discharging assemblies of receptacles sidewise between said inner web supporting arms in spaced relation upon the wrapper, pairs of opposed feed grippers actuated for simultaneous closing and opening for gripping and releasing the assemblies through the wrapper and for simultaneous reciprocation for translating the spaced assemblies and the wrapper along the wrapping way step by step, a side sealer disposed at the rear of the rear folders in coacting relation to the overlapped longitudinal edges of the wrapper, a delivery conveyer way disposed in rearwardly spaced aligned relation to the wrapping way, a friction plate disposed in opposed relation to the delivery way for frictionally retarding the movement of the wrapped assemblies thereon, means for crimping, sealing and severing the wrapper between said wrapping and delivery ways, and a pair of transfer grippers actuated in timed relation with the feed grippers to engage an assembly at the rear of the wrapping way and transfer it to the delivery way, said several grippers being provided with projecting grip portions engaging the wrapper between the rims of nested receptacles to facilitate translation of the assemblies and wrapper together, said delivery conveyer and coacting friction plate frictionally retarding the wrapped and sealed assemblies thereon so that an assembly delivered by the transfer grippers is nested with the last preceding assembly and the trailing sealed end of the wrapper of said preceding assembly is tucked into the trailing receptacle thereof and the leading sealed end of the sealed wrapper of the transferred assembly is tucked into the recessed bottom of the leading receptacle thereof.

2,641,096

COIN-WRAPPING DEVICE

Joseph Scheidt and Lester A. Teegardin, Streator, Ill.

Application March 10, 1952, Serial No. 275,802
3 Claims. (Cl. 53—114)



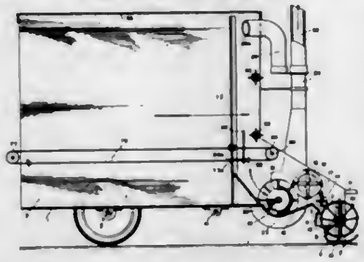
1. A coin wrapping device comprising a base having a transverse groove in its top adjacent its front end, a U-shaped member pivoted at its ends to said base about an axis substantially parallel to said groove, the arm portions of said U-shaped member extending across said groove and the web of the U-shaped member extending past the groove to permit the emplacement of coins in the groove between the arms, said arms being engageable with a portion of the top of said base adjacent the groove to retain a portion of a coin wrapper positioned within the groove.

2,641,097

HARVESTER EQUIPMENT AND PNEUMATIC METHOD OF LOADING AND UNLOADING SAME

Aquila D. Mast, Lancaster, Pa.

Application September 26, 1949, Serial No. 117,786
7 Claims. (Cl. 56—1)



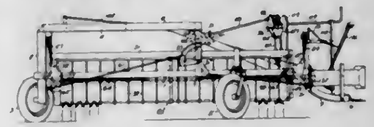
1. A harvester for forage, ensilage and the like comprising a wheeled chassis, motive means for driving said chassis, a frame supported by said wheeled chassis, a transversely extending screw conveyer carried by one end of said frame and driven by said motive means, a gatherer and chopping mechanism for gathering and delivering chopped forage, ensilage and the like to said screw conveyor, a blower located at one side of said frame in coaxial alignment with said screw conveyer and driven from said motive means for entraining chopped forage, ensilage and the like in a forced stream of air, a pneumatic delivery tube extending from said blower, a screened storage compartment carried by said frame for retaining chopped forage, ensilage and the like while permitting the escape of the air in which the chopped forage, ensilage and the like is entrained, an angularly displaceable elbow mounted adjacent the top of said storage compartment, said pneumatic delivery tube being adaptable for connection to either said angularly displaceable elbow or to a silo storage tube connection whereby said blower is operative to selectively blow chopped forage, ensilage and the like to said storage compartment or to said silo storage tube connection, a movable partition member extending transversely of said storage compartment and driven means operative in timed relation to the movement of said screw conveyer and driven by said motive means for advancing said partition toward said screw conveyor for delivering chopped forage, ensilage and the like from said storage compartment to said screw conveyer for delivery thereby to said blower.

2,641,098

HIGH LIFT SIDE DELIVERY RAKE

Paul H. Harrer, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application November 8, 1950, Serial No. 194,648
15 Claims. (Cl. 56—27)



1. In a machine including apparatus mounted for adjustment between predetermined limiting positions and a power transmitting means drivingly connected with parts of said machine, an improved adjusting mechanism comprising means actuable to move said apparatus between said limiting positions, said actuable means including parts coacting to maintain said apparatus in any selected position of adjustment, gearing connected with said actuable means and being selectively operable to move said apparatus in opposite directions between said limiting positions, means for connecting said power transmitting means in operative driving relation to selective portions of said gearing including an element biased to an inoperative power transmitting position, and an actuator operatively associated with said element and gearing and being mounted for reciprocable movement in two different directions, movement in one direction effecting a driving connection between said element and a selected portion of said gearing, and movement in the other direction effecting a driving connection between said power transmitting means and said element without disturbing the driving connection between said element and gearing.

2,641,099

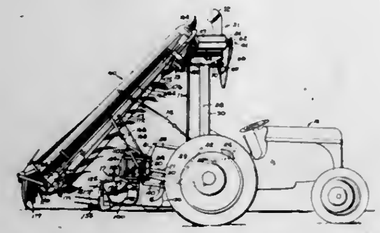
BEET TOPPER

Nelson E. Reynolds and Leon R. McRobert, Greeley, Colo., assignors to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application April 19, 1946, Serial No. 663,512
9 Claims. (Cl. 56—121.46)

1. In a beet topping device, a parallelogram linkage arranged for vertical movement and having vertical and horizontal members, a first verti-

cal member adapted to be supported at a predetermined level with respect to the ditches between beet rows, a gauging member adapted to contact the ridge between adjacent ditches, a second vertical member associated with said gauging member, said second vertical member being disposed in spaced apart trailed relation with said first vertical member, horizontal links connecting said



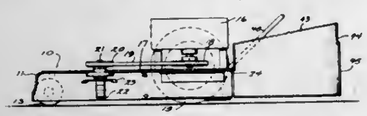
vertical members, pivot-supporting means connected to at least one of said horizontal links at a point between said vertical members, a finder arm to engage the crown of beets to be harvested, a knife arm utilized in the cutting of said beets connected in operative relation with respect to said finder arm, said finder arm and said knife arm being pivoted to said pivot-supporting means.

2,641,100

ROTARY CUTTING DISK TYPE LAWN MOWER

Jack C. Sylvester, Milwaukee, Wis.

Application July 11, 1951, Serial No. 236,139
5 Claims. (Cl. 56—255)



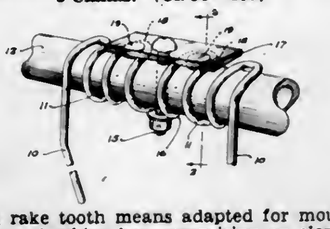
1. A lawn mower assembly comprising a mobile casing having a semi-circular forward portion, a power driven rotatable pintle mounted in said forward portion and extending vertically in the axis of said casing, said pintle carrying a planar cutting blade on its lower end for grass cutting, said casing including a throat of co-equal depth and having a pair of side walls and a bottom wall extending rearwardly from said forward portion and connected to said portion to complete the circular contour of the latter, one of the side walls of the throat extending to the vicinity of the axis of rotation of the cutting blade to form a guide wall for directing cut grass into said throat, a grass deflector carried by said pintle in the upper portion of said casing remote from the cutting blade but substantially parallel thereto, said deflector being elongated and having its direction of length biased with respect to the direction of length of the cutting blade, said deflector being cooperative with the throat guide wall in advancing cut grass into the throat, the rotation of said blade and deflector creating a draft into the throat to cause advance of the cut grass through the throat, and a grass-catching basket mounted on said casing rearwardly of the throat.

2,641,101

TOOTH MEANS FOR SIDE-DELIVERY RAKE

Allan R. Redrow, New Holland, Pa., assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa., a corporation of Delaware

Application March 1, 1950, Serial No. 146,986
3 Claims. (Cl. 56—400)



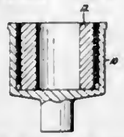
1. A rake tooth means adapted for mounting on a round raking bar, comprising an elongated strip of spring metal formed with a depending tooth portion and a serpentine connecting portion, including several reversely formed loops with relatively parallel sides, the sides of said loops embracing and conforming generally in curvature to the periphery of said bar, in combination with a bolt disposed through said bar with one end projecting through one of said loops, and means on said end for clamping said loop against the bar, a mounting plate on the other end of said bolt being disposed across the ends of a plurality of loops and having a corresponding plurality of pins respectively disposed in said loops to secure same on the bar and to prevent pivotal movement of the connecting portion about said bolt.

2,641,102

WOUND PACKAGE LINER-WRAPPER

Kendall L. Hall, Parkersburg, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application April 10, 1947, Serial No. 740,684
15 Claims. (Cl. 57—76)



15. In combination, a spinning bucket having a plurality of grooves in the inside wall extending parallel to the axis of rotation of the bucket, a tubular permeable wrapper placed inside the spinning bucket and forming an annular liner therein adjacent the inside peripheral wall of the bucket, said tubular wrapper being folded to form a plurality of overlapping telescoping portions so that the inside portion of the wrapper is substantially coextensive with the inside peripheral dimensions of the bucket, and means for directing filamentary material into the spinning bucket to form a cake therein.

2,641,103

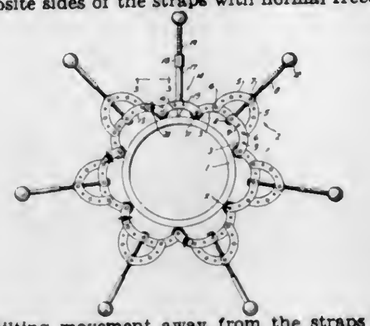
DETACHABLE LINK FOR PIPECUTTING TOOLS

John B. Gill, San Francisco, Calif., assignor to Pilot Manufacturing Company, San Francisco, Calif., a corporation of California

Application January 24, 1950, Serial No. 140,293
2 Claims. (Cl. 59—85)

1. In combination, in a chain, a link having a pivot pin projecting therethrough, a second link

having a pair of rigidly connected straps adapted for straddling the first link, the straps having notches in the ends thereof adapted to seat against the pivot pin when the straps are moved endwise toward the pivot pin for initial engagement, a second pin extending through the straps, latch members anchored to the second pin on opposite sides of the straps with normal freedom



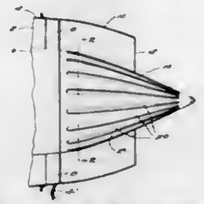
of tilting movement away from the straps and having holes in their front portions engageable over the first pin from the ends thereof, and releasable means on the second pin for tightening the latch members upon the straps, the latter means comprising wing nuts threaded upon the second pin and means preventing removal of the nuts from the pin.

2,641,104

TAIL CONE HAVING RADIALLY ADJUSTABLE WALL

John Y. Estabrook, Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application April 18, 1950, Serial No. 156,682
3 Claims. (Cl. 60—35.5)



1. A variable area thrust nozzle including a substantially closed conical member having a base, a wall and a tip and adapted to be centrally mounted within the nozzle, and means for expanding the wall of said member radially including means for moving the tip of the member in an axial direction with respect to the base thereby causing radial expansion or contraction of the wall.

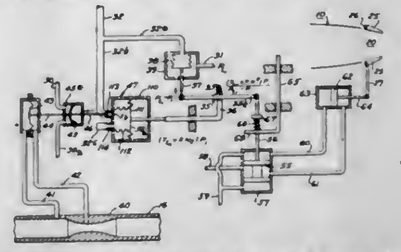
2,641,105

TEMPERATURE CONTROL SYSTEM HAVING MEANS TO MEASURE TURBINE INLET TEMPERATURE INDIRECTLY

John A. Drake, Los Angeles, Calif., assignor to Marquardt Aircraft Company, Van Nuys, Calif., a corporation of California

Application October 11, 1948, Serial No. 53,791
12 Claims. (Cl. 60—35.6)

1. A control system for a turbojet engine having in flight a compressor inlet temperature of T_{t_0}, a compressor outlet total and static pressure of P_{t_1} and P_1, a turbine rotary speed of N and a turbine inlet total temperature of T_{t_4}, said system comprising pressure responsive means including a pitot tube and a static tube responsive respectively to P_{t_1} and P_1, and exerting a first force proportional to $P_{t_1}-P_1$, means responsive



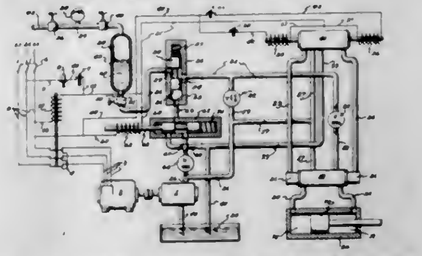
to T_{t_4} and N and exerting a second force proportional to $T_{t_0}+kN^2$, where k is a constant, means responsive to said second force and to P_1 and exerting a third force proportional to $(T_{t_0}+kN^2)P_1$, and means for dividing said third force by said first force to obtain a force proportional to T_{t_4}.

2,641,106

ELECTROHYDRAULIC SYSTEM HAVING A SAFETY SHUTOFF VALVE FOR ITS ACCUMULATOR

Alfred F. Jelinek, Cincinnati, Ohio, assignor to The Cleveland Automatic Machine Company, Cincinnati, Ohio, a corporation of Ohio

Application January 3, 1952, Serial No. 264,815
5 Claims. (Cl. 60—51)



2. In a hydraulic system having a fluid pressure pump, an electric motor for driving said pump, a fluid motor to be actuated from said pump, an accumulator bottle, means for connecting said accumulator and said pump to said fluid motor, including an automatic cutoff valve between said accumulator bottle and said pump and fluid motor, spring means for normally holding said valve in closed position, and electrically actuated means for holding said valve in open position when said fluid pressure pump electric drive motor is energized.

2,641,107

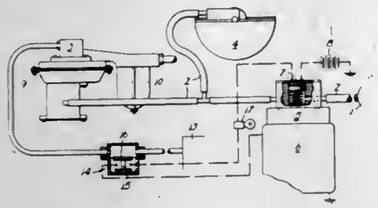
ACCESSORY SYSTEM

Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application April 20, 1948, Serial No. 22,141
5 Claims. (Cl. 60—60)

1. A fuel system for motor vehicles, comprising a fuel pump, pressure actuated means for operat-

ing the same, a suction supply line from the intake manifold of the vehicle engine to said means for supplying the actuating pressure, a suction supplementing pump in the line, an electric drive



for the suction pump, and means responsive to the fuel pressure as delivered by the fuel pump and also responsive to the manifold suction influence in the line for energizing the electric drive.

2,641,108

MEANS FOR HARNESSING WAVE POWER

Seton J. Montgomery and Ira P. Macnab, Halifax, Nova Scotia, Canada, assignors to Wave Power Development Limited, Truro, Nova Scotia, Canada, a body politic and incorporate

Application March 16, 1948, Serial No. 15,088

1 Claim. (Cl. 61—20)



An installation of the character described for extracting useful power from sea waves by transforming the oscillating motion of said waves into a movemennt of translation, said installation comprising an elongated jetty so disposed that its longitudinal axis will extend at an angle to the line of advancing waves, said jetty having front and back faces parallel with said longitudinal axis, a plurality of vertical piers projecting forwardly from said front face at an angle with said longitudinal axis so as to be perpendicular to said line of advancing waves, each pair of adjacent piers defining therebetween a space for receiving and laterally confining a portion of an advancing wave, said jetty having penstock openings in said front face between said piers, an inclined slab depending from said jetty below said penstock openings and extending forwardly downwardly from said jetty, penstocks disposed within said jetty and extending rearwardly from said penstock openings, said penstocks having a horizontally extending front portion, adjacent said openings, so disposed that its axis will extend parallel to said piers, said penstocks having furthermore a vertical portion and a back horizontal portion, the latter extending at right angles to the longitudinal axis of said jetty, diverging exhaust passages aligned with said rear penstock portions and opening in said back face of said jetty, and power extracting turbines located in said vertically extending penstock portions.

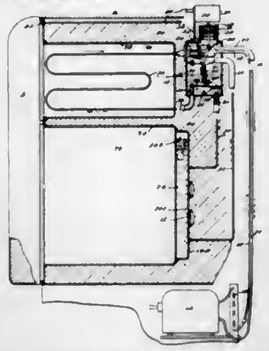
2,641,109

MULTITEMPERATURE REFRIGERATING SYSTEM

Glenn Muffly, Springfield, Ohio

Application August 29, 1947, Serial No. 771,181

20 Claims. (Cl. 62—4)



1. In a refrigerating system, a refrigerant condensing means, two evaporators arranged to receive liquid refrigerant from said condensing means and to operate a first one within higher and a second one within lower temperature limits, a substance in heat exchange with one of said evaporators having the characteristic of passing through a change of state within the operating temperature range of the last said evaporator, a valve mechanism connected in said system for the purpose of diverting the flow of refrigerant caused by said condenser means, and a temperature responsive element in heat exchange with said substance, said element being connected to actuate said valve mechanism when said substance is cooled to a temperature below its freezing point, whereby refrigerant flow between said condensing means and the last said evaporator is substantially stopped and said condensing means is caused to operate mainly in effecting the cooling of the other of said evaporators.

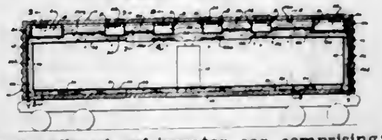
2,641,110

METHOD AND SYSTEM FOR REFRIGERATION OF RAILROAD CARS

Robert D. Pike, Greenwich, Conn.

Application August 10, 1950, Serial No. 178,603

17 Claims. (Cl. 62—17)



6. A railroad refrigerator car comprising: a storage compartment, the compartment being spaced by air passageways from the inner surfaces of the ends, side walls, roof and bottom of the car, the air passageways being interconnected and being in communication with the upper portion of the compartment, a plurality of tanks containing low temperature eutectic brine refrigerant disposed beneath the car roof and adjacent the storage compartment, the outer surfaces of the refrigerant tanks being in heat exchange relationship with the air flowing through said passageways, pipe drains interconnecting the tanks in series from the centermost tanks to each end of the car whereby brine melted in the centermost tanks will flow outwardly to the ends of the car through tanks intermediate thereto; and air impelling means disposed in communication with the air passageway for forcing divergent streams of air toward the opposite ends of the car and through the said passageways.

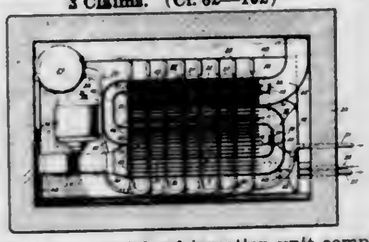
2,641,111

REFRIGERATION APPARATUS AND METHOD

Robert H. Bishop, Champaign, Ill.

Application March 14, 1952, Serial No. 276,603

3 Claims. (Cl. 62—102)



1. In a commercial refrigeration unit comprising a food storage box, a blast cooling-unit compartment, a blast cooling unit, and means for circulating air from the cooling unit to the storage box and returning it to the cooling compartment, the improvement comprising a blast cooling unit having a coil housing divided into a plurality of cooling sections serially connected, cooling tubes within said sections, a prime frost collecting surface located adjacent the walls of the cooling compartment externally of the coil housing whereby air returning from the box must first pass over said prime surface and be dehumidified before entering the coil housing, fins on said cooling tubes, said fins being most widely spaced in the first of said sections, and being more closely spaced in each succeeding section, means for drawing air over the prime surface and passing it through said sections, and means communicating from the last section with the box whereby cooled dehumidified air from blast cooling unit is passed into said box.

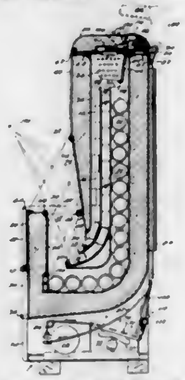
2,641,112

REFRIGERATOR-CABINET DEFROSTING

Glenn Muffly, Springfield, Ohio

Application August 9, 1947, Serial No. 767,731

23 Claims. (Cl. 62—116)



1. In a refrigerator, a food storage space, a refrigerating system including an evaporator for cooling said space, a door for access to said space, and means activated by the opening of said door for causing said evaporator to act as the condenser of said system for the purpose of defrosting it.

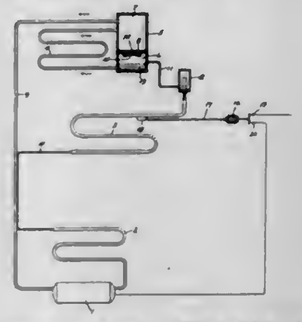
2,641,113

FREEZER EVAPORATOR, INCLUDING CHECK VALVE IN HEADER

Frank A. Schumacher, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application January 10, 1952, Serial No. 265,813

4 Claims. (Cl. 62—117.6)



1. A two-temperature refrigerating system comprising a vertical header divided into lower and upper chambers, a fresh food evaporator, a refrigerating unit supplying refrigerant to one side of said fresh food evaporator and exhausting refrigerant from said upper chamber, the other side of said fresh food evaporator being connected to said lower chamber, a freezer evaporator, one side of said freezer evaporator being connected to said lower chamber below the normal level of a liquid reserve therein, the other side of said freeze evaporator being connected to said upper chamber, and means providing controlled comunication between said lower and upper chambers operating in response to the operation of said refrigerating unit to permit accumulation of pressure in said lower chamber during operation of said refrigerating unit thereby to supply liquid refrigerant promptly from said lower chamber to said freezer evaporator, and to permit drainage of liquid refrigerant from said upper chamber into said lower chamber during idle periods of said refrigerating unit thereby to replenish said reserve.

2,641,114

FUEL GAS TREATMENT

Paul Wilhelm Holthaus, Heessen, Germany

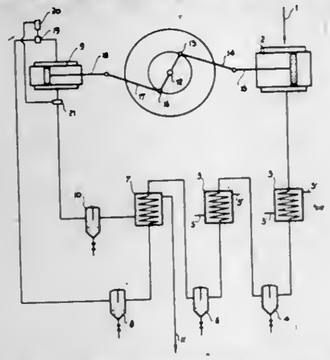
Application May 6, 1952, Serial No. 286,408

In Germany March 30, 1949

4 Claims. (Cl. 62—175.5)

1. A process of treating fuel gas from which valuable substances, particularly tar and benzol, have been extracted and preparatory to the passage of the gas into distribution piping, removing easily condensable residue substances such as naphthalene and water by compressing and subsequently expanding the gas while doing useful work which consists in raising the pressure of the gas by compressing it to not more than twice the pressure in the gas main, cooling the compressed gas and subsequently expanding the gas until its pressure falls to a value such as to cause the

said condensable substances to be separated out from the gas, and passing into said piping the



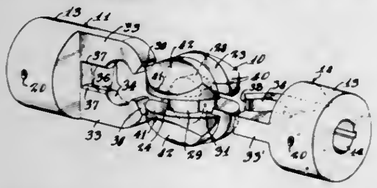
gas from which said condensible substances have been separated.

2,641,115

UNIVERSAL JOINT CONSTRUCTION

Clifford L. Garrison, Adrian, Mich., assignor to Oliver Instrument Company, Adrian, Mich., a corporation of Michigan

Application March 12, 1949, Serial No. 81,071
1 Claim. (Cl. 64—16)



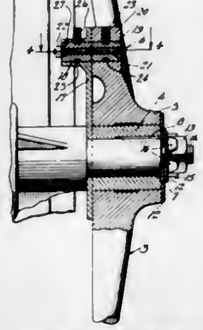
In a joint construction, in combination, a removable center section, and a pair of similarly-shaped yoke elements, said center section being formed with a core and two peripheral grooves which intersect and which are disposed at right angles to each other and each of which has parallel, plane side walls, the bottom of each groove comprising two spaced diametrically opposed arcuate portions of a common cylindrical surface and two spaced, diametrically opposed flat parallel surfaces which connect said arcuate portions, the two flat parallel surfaces being common to the bottoms of both grooves and the arcuate portions of the two grooves being curved, respectively, about axes that are disposed at right angles to each other, the bottoms of the two grooves constituting the external surface of said core, and said center section having an external surface comprising two cylindrical portions coaxial, respectively, with the two axes of the bottoms of its peripheral grooves and a third cylindrical portion curved about an axis perpendicular to said two axes, and each of said yoke elements having a body portion, said body portion having a plane surface, said yoke elements having two spaced furcations projecting from said surface, the furcations of each yoke element having opposite plane side walls and opposed inside walls, said opposed inside walls being parallel and plane for the portion of their length adjacent the body portion of each yoke element and being arcuately curved and of arcuate cylindrical shape for the portion of their length adjoining said parallel plane portions, the furcations of one of said yoke elements straddling said core and engaging in one of said grooves, and the furcations of the other of said yoke elements straddling said core and engaging in the other of said grooves, the curved portions of the inside walls of the furcations of the two yoke elements matching substantially in curvature the arcuate cylindrical surfaces of the bottoms of their respective grooves and the parallel side surfaces of the furcations corresponding to and fitting, respectively, the parallel side walls of their respective grooves, the space between the furcations of each yoke element at the free ends of the furcations being at least as great as the width of said core measured across the parallel flat surfaces thereof but being less than the width of said core measured across diametrically opposite arcuate surfaces, and said furcations being chamfered at the junctures of their side walls with the plane portions of their inside walls to provide clearance for angular movement of one yoke element with respect to the other.

2,641,116

SAFETY WHEEL FOR BALERS OR THE LIKE

Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin

Application February 14, 1945, Serial No. 577,882
1 Claim. (Cl. 64—28)



In an overload release mechanism for a device having a driven shaft, the combination of a driving element journaled on said shaft, having a central hub portion and providing a substantially cylindrical shearing bushing receiving opening spaced a substantial distance from said central hub portion substantially in the axial plane of the shaft, a driven arm fixed on said shaft adjacent the driving element and having a shearing bushing receiving opening aligned, in one position of said arm and driving element with the first mentioned opening, a shearing bushing in each opening, said bushings having faces disposed in shearing contact with each other and having aligned axial bores, a shear bolt traversing said bores and tying said bushings, and accordingly said arm and driving element in driving and driven relationship, means holding said bushings in said openings, and said bolt having a head in contact with the end of one bushing remote from the other bushing and a nut in contact with the end of the other bushing remote from the first bushing, the pressure of said nut and head against said bushings preventing axial separation

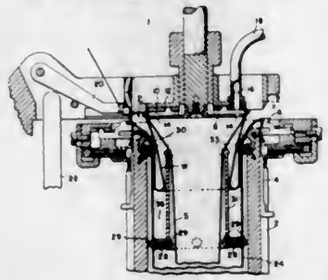
of said bushings prior to shearing of said bolt, said holding means and said bolt limiting springing apart of said arm and driving element under overload.

2,641,117

TAKE-UP FOR KNITTING MACHINES

Albert X. Desmonds, Laconia, N. H., assignor to Scott & Williams, Inc., Laconia, N. H., a corporation of Massachusetts

Application August 31, 1950, Serial No. 182,453
12 Claims. (Cl. 66—153)



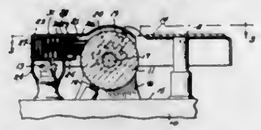
1. In a circular knitting machine, a needle cylinder, needles slidable in said cylinder, means associated with said needles for holding stitches during the formation of a turned welt, a cylinder within the needle cylidner and spaced therefrom to provide an annular welt-receiving space, and take-up means for pulling knitted fabric over an upper edge of the last mentioned cylinder and downwardly therethrough.

2,641,118

LIGHTER CONSTRUCTION

Leon Edelson, Elkins Park, Pa.

Application July 18, 1952, Serial No. 299,574
10 Claims. (Cl. 67—7.1)



10. In a pyrophoric lighter, a fuel-impregnated wick, a pyrophoric spark-producing mechanism adjacent said wick for igniting the latter and including a rotatable flint abradant wheel, a snuffer cap operative to enclose the wick to extinguish the flame thereof, said snuffer cap having limited oscillatory movement relatively to and about said wheel upon operation of said spark-producing mechanism, and brush means carried by said snuffer cap for brushing engagement with the flint-engaging peripheral surface of the wheel upon movement of the snuffer cap relatively to said wheel.

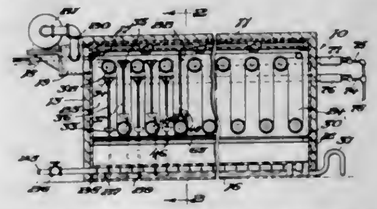
2,641,119

AGEING OR REDUCING APPARATUS

Raymond W. Jacoby, Mountain Lakes, N. J.

Application May 3, 1950, Serial No. 159,703
2 Claims. (Cl. 68—5)

1. An ageing or reducing apparatus comprising a generally rectangular casing having enclosing walls, means in said casing dividing the same into a plurality of chambers comprising a first chamber and at least one additional chamber, said casing being closed to the atmosphere except for entrance and exit opening means provided in one of the enclosing walls of the first chamber adjacent one corner thereof, said means which divides the first chamber from the additional chambers extending from one wall and terminating short of the opposite wall providing a space at a location diagonally across the first chamber from the entrance and exit opening means, means for passing printed or dyed fabric into said



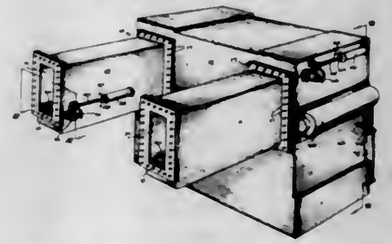
opening means through the first chamber thence chamber in successive runs and thence out of said through said space and through an additional opening means, means for supplying steam to said casing, means for directing all of the steam from all additional chambers through the first chamber to be discharged through said entrance and exit opening means, whereby a greater volume of steam per cubic foot of chamber space passes through the first chamber where chemical and physical reactions first occur than any additional chamber.

2,641,120

APPARATUS FOR FINISHING HOSIERY

Sidney Bailey, Jr., Philadelphia, Pa., assignor to Bailey Dye Works, Philadelphia, Pa., a corporation of Pennsylvania

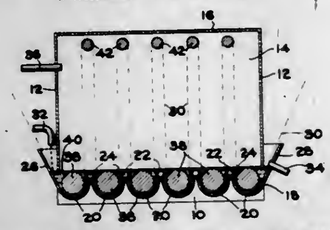
Application May 21, 1948, Serial No. 28,454
17 Claims. (Cl. 68—20)



1. In an apparatus for treating textile materials, an autoclave comprising a plurality of article-receiving chambers each adapted to contain a vaporous treating medium under superatmospheric pressure, said chambers being at least three in number and being arranged in series relation with one of said chambers disposed intermediately of two end chambers, said chambers being respectively provided with contiguous passages therethrough for movement of the articles to be treated successively through said chambers, means for conveying said articles successively through said chambers of the autoclave, fluid-tight closure gates operative to seal the outer ends of said end chambers from atmosphere and the inner ends thereof from said intermediate chamber, means for equalizing the pressure of the treating medium within said in-

termediate chamber and at least one of said end chambers preliminarily to opening of the closure gate therebetween for passage of the articles from one to the other of said pressure-equalized chambers, and means for exhausting the pressure medium from each of said end chambers preliminarily to opening the outer gate of said pressure-exhausted chamber.

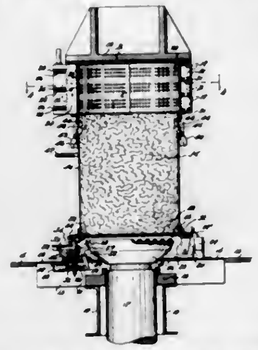
2,641,121
APPARATUS FOR DYEING
Harold H. Belcher, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a corporation of Massachusetts
Application August 2, 1945, Serial No. 608,431
5 Claims. (Cl. 68—181)



1. Apparatus for the treatment of a web with a liquid comprising a tank having a corrugated bottom forming substantially parallel substantially arcuate horizontal troughs having crests therebetween, a lower web guide roller mounted coaxially within each of said arcuate troughs and being of such size as to displace the major portion of the volume of each of said troughs, the exterior surface of said rollers being radially spaced from the surface of the associated trough to form a thin arcuate chamber for the treatment liquid, an upper guide member mounted above each of said crests, said web being passed successively through the arcuate liquid chambers and over said upper guide members of said apparatus so that the web serves to agitate the liquid in said arcuate chambers during treatment by the liquid to maintain uniformity thereof, the top level of said crests being on approximately that of the tops of said lower guide rolls whereby the web is free of restraint over the major portion of its runs between said guide rollers and upper guide members, said apparatus including an inlet and an outlet for said web, means for introducing the treatment liquid into said tank, means for maintaining the liquid level in said tank slightly above said crest, and means for moving said web through said tank from said inlet to said outlet.

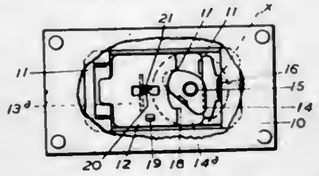
2,641,122
HYDRAULIC EXPRESSOR
Nicholas J. Cavagnaro, Jr., Hicksville, and John Louis Cavagnaro, Brooklyn, N. Y.
Original application March 17, 1949, Serial No. 81,946. Divided and this application June 27, 1951, Serial No. 238,842
4 Claims. (Cl. 68—241)

1. In a hydraulic press having a reciprocable ram, an electric motor for operating the press, a head member opposed to said ram, an upwardly open wheeled container adapted to be loaded with material to be treated, said container being adapted to be removably positioned in axially aligned relation to and between the head member and the ram, said container having a movable bottom member engageable by the rising ram whereby to carry the material out of the container subject to compression between the head member and ram, a platform and trackway for supporting the wheeled container in entered relation to the press, a retractable spring actuated locking bolt mounted on said platform and a locking bolt engageable means on the container, whereby to secure the wheeled container in its



entered operative relation to the press, an electrical starting means for said motor, a normally open limit switch in the circuit of said starting means, said switch having a trip lever, and means on said locking bolt operative to move said trip lever to switch closing position when the locking bolt is disposed to secure the wheeled container in its entered operative relation to the press.

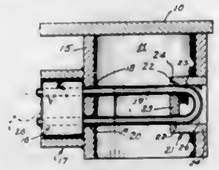
2,641,123
KEY LOCKED SLIDABLE BOLT FASTENING FOR ATTACHE AND SUITCASES AND THE LIKE
Charles William Cheney, Hockley, Birmingham, England
Application August 1, 1950, Serial No. 176,971
In Great Britain March 8, 1949
2 Claims. (Cl. 70—67)



1. A key locked slidable bolt fastening of the kind specified comprising a casing consisting of a front plate and a back plate rigidly interconnected in spaced relationship, said front plate having a hasp slot therein, an assembled bolt unit capable of sliding lineally in said casing, said bolt unit comprising a bolt member, stops and a key support on said bolt member, a limb spring located on said bolt member, a part of said spring co-operating with said casing for shooting said bolt unit in the direction of said hasp slot, a manually operable knob on the face of said front plate, means for connecting said knob to said bolt member, said means passing through openings in said front plate and a key operated locking member rockably mounted on said key support, said locking member also being acted upon by said spring and having key stumps and being

rockable within the limits of said stops with a snap action through said spring, said locking member being capable of locking said bolt in the shot position and of co-acting with said casing when turned in one direction to shoot and lock the bolt simultaneously when said bolt remains in the retracted position and is inoperative as if through a broken spring.

2,641,124
LOCK FOR FIFTH WHEEL KING PINS
Samuel D. Gallagher and John Lamversie, St. Louis, Mo.
Application July 11, 1951, Serial No. 236,210
2 Claims. (Cl. 70—232)



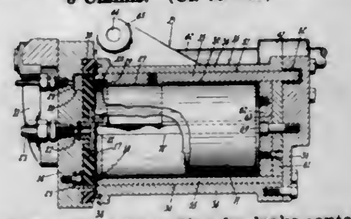
1. A lock for the king pin of the upper fifth wheel plate of a trailer to prevent automatic interconnection of the fifth wheel of an unauthorized tractor with the usual king pin of the trailer comprising a metal sleeve neatly fitting and completely housing the king pin, said sleeve being provided with oppositely disposed openings disposed in alinement with the usual annular groove in the king pin, a padlock having a U-shaped sliding shackle adapted to be inserted through the oppositely disposed openings with the free ends of the legs of the shackle being received by the lock, and means embracing the openings for housing the lock and the bight portion of the shackle, the legs of the shackle being seated within a portion of the groove to prevent removal of the sleeve.

2,641,125
CYLINDER LOCK WITH KEY-WAY OBSTRUCTING MEANS
Jesús Valiente Oroquieta, Buenos Aires, Argentina
Application June 2, 1949, Serial No. 96,767
In Spain May 16, 1949
1 Claim. (Cl. 70—423)



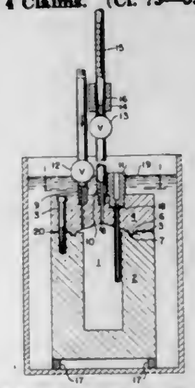
A cylinder lock with two key-ways, allowing the insertion of a key at either side of the said lock and having two sets of correspondingly formed ward surfaces provided upon the operative edges of the tumbler openings; wherein obstruction means are provided for positively preventing the insertion of the key in one side of the said lock, so long as a key is in operative position after having been inserted in the opposite side of the said lock, said obstructing means consisting of a substantially rounded edged, spring supported, lozenge-shaped plate, adjacent one face of the cylinder, the lateral operative movement of said plate being caused by the point of the said key and being limited by means of a stud screwed into the said face of the cylinder.

2,641,126
CAN TESTING HEAD ADAPTABLE TO VARIOUS SIZES OF CANS
William W. Maher, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 2, 1947, Serial No. 789,287
8 Claims. (Cl. 73—42)



1. In a machine for testing for leaks containers having open ends, the combination of a container testing head including a tubular housing for enclosing a container for testing, said housing having a longitudinal clearance groove and longitudinal tongue grooves disposed on the inside, a cradle movable in the clearance groove of said housing for receiving and supporting a container, a sealing pad disposed adjacent said cradle and engageable with the open end of the container for sealing it for the test, a can support block having tongues for fitting within the tongue grooves of said housing to position said block for cooperative support of the container under test, a clamping head having locking attachment with the inside end wall of said housing for engaging the closed end of the container, said clamping head having means for holding said can support block in can supporting position within said housing, and means for moving said housing with the enclosed supported container backed up by said clamping head to press the open end of the container against said sealing pad into sealed testing position.

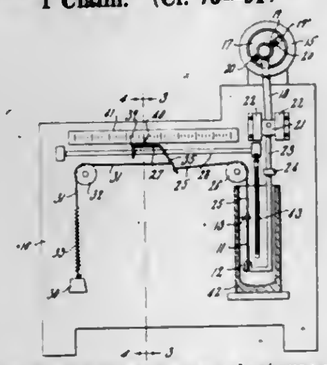
2,641,127
APPARATUS FOR THE MEASUREMENT OF THE BULK MODULUS OF LIQUIDS
Samuel Logan Kerr, Philadelphia, Pa., and Lewis H. Kessler, Evanston, Ill.
Application April 15, 1950, Serial No. 156,108
4 Claims. (Cl. 73—53)



1. An apparatus for use in the determination of the bulk modulus of a liquid which includes two cup-shaped elements fastened together to form a chamber, means for sealing the connec-

tion between the elements, an inlet line leading into said chamber, an outlet line leading out of said chamber, means for controlling the flow through the inlet line and the outlet line, means for supplying liquid under pressure to the chamber through the inlet line, and an open measuring vessel connected to the terminal of the outlet line.

2,641,128
APPARATUS FOR TESTING ELASTIC MATERIAL
Sheppard A. Black, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 17, 1948, Serial No. 49,730
1 Claim. (Cl. 73—91)



An apparatus for testing an elastomeric sample comprising a frame, means for engaging one end of the sample and means for engaging the opposite end of the sample, a connecting element slidably mounted on said frame and extending from the said means engaging one end of the sample, a one-way braking attachment interconnected between said frame and said connecting element to prevent said connecting element from moving toward the said one end of the sample at any time, without restraining movement of said connecting element away from said one end of the sample at any time, mechanism mounted on said frame and operably connected to the means engaging said opposite end of the sample for reciprocating said opposite end toward and away from said first mentioned end so as to apply a cyclic tensile strain to the said sample, a spring connected to said connecting element, a tensioning device connected to said spring to continually urge the said connecting element away from said first mentioned one end of the sample, whereby incipient slack, produced in the sample as said reciprocated end is moved toward said first mentioned end, is continually taken up instantly as it occurs in the strain cycle by movement of said connecting element away from the sample under the influence of said tensioning device, and the sample is never actually permitted to become slack at any time during the strain cycle, and means attached to said connecting element for indicating the extent of movement of said connecting element with respect to the said frame to reveal the magnitude of slack accumulated as the test proceeds.

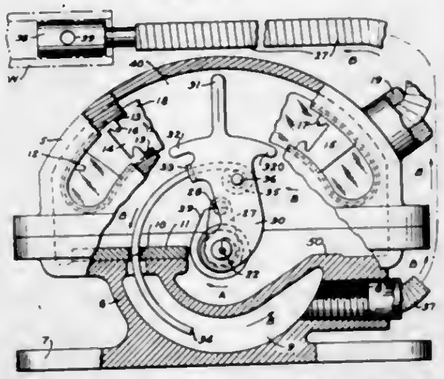
2,641,129
FUEL REGISTERING DEVICE FOR USE ON MOTOR VEHICLES
John F. Truckenbrodt, Kent, Wash.
Application April 21, 1950, Serial No. 157,228
2 Claims. (Cl. 73—312)

2. Liquid level recording means for use in connection with receptacles of varying shape and size, comprising a movably supported record sheet; clock controlled record sheet moving means connected with said record sheet providing uniform continuous slow speed movement of said record sheet; a marking device engaging said record sheet and guided for movement in a direction transverse to the direction of movement of the part of the sheet engaged by said marking device, whereby a record mark will be made on said record sheet by movement of said marking device; a float adapted for installation in receptacles of predetermined size and shape; marking device moving means connected with said float adapted to transversely move said marking device in response to changes in the liquid level in the recep-



tacle in which the float is installed; a separable transparent conversion sheet; a plurality of receptacles of different size and shape depicted on said conversion sheet; a plurality of sets of graduations on said conversion sheet associated respectively with the receptacle depictions thereon, each set of graduations being calibrated in terms of the depicted receptacle with which it is associated on the sheet, whereby a mark made on the record sheet by a marking device controlled by a float in a receptacle of predetermined size and shape can be interpreted by application to the record sheet of the scale associated with the depiction of a receptacle of corresponding size and shape on the conversion sheet.

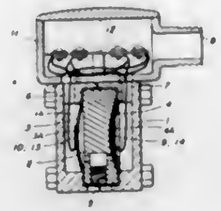
2,641,130
DIFFERENTIAL AIR GAUGE
George W. Grisdale, Philadelphia, Pa.
Application April 16, 1947, Serial No. 741,831
3 Claims. (Cl. 73—388)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a differential pressure gage, a casing comprising upper and lower halves having inlet and outlet connections, respectively, and generally horizontal confronting mating faces secured together to define first and second pressure chambers communicating only through an orifice in the interface of one said half, aligned bearings carried by the opposed side walls of said lower half and defining a pivot axis radially offset from said orifice, a shaft journaled by and between said bearings for rotation about said axis, a

pointer fixed with said shaft and viewable through a sealed viewing opening in said upper half, an arcuate piston secured at one end with said pointer and extending loosely through said orifice coaxially of said axis, and a spring yieldingly urging said shaft in one direction of rotation.

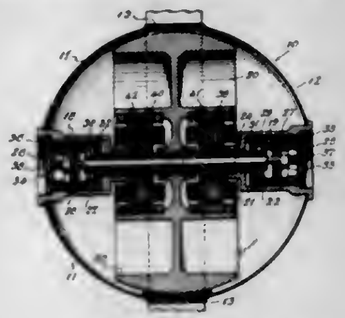
2,641,131
PRESSURE GAUGE
Charles C. Waugh, Los Angeles, Calif., assignor to North American Aviation, Inc.
Application November 21, 1949, Serial No. 128,577
3 Claims. (Cl. 73—398)



1. Means for determining remotely the pressure in a fluid system comprising two identical thin spherical dish-shaped parallel concave elastic diaphragms each having a concave and a convex side; a core member for admitting fluid to the space between said diaphragms, to apply the pressure of said fluid to the concave side of one of said diaphragms and to the convex side of the other of said diaphragms, and for providing support for said diaphragms when said fluid pressure is appreciably less than the pressure upon the convex side of said first-named diaphragm and the concave side of said second-named diaphragm; said core member having surfaces adjacent the free surfaces of said diaphragms; a casing open to the atmosphere surrounding the convex side of said first-named diaphragm and the concave side of said second-named diaphragm; strain gages attached to the unpressurized sides of said diaphragms so as to measure tensile stress in the extreme fibers of said first-named diaphragm and compressive stress in the extreme fibers of said second-named diaphragm due to bending thereof produced by fluid pressure on the pressurized side thereof; and electrical means positioned remotely from said diaphragms for measuring variations in resistance of said strain gages whereby the pressure of said fluid is measured.

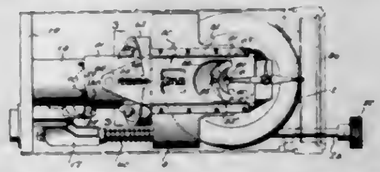
2,641,132
GYROSCOPIC ROTOR FRAME
Clare E. Barkalow, Huntington, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application September 23, 1948, Serial No. 50,801
3 Claims. (Cl. 74—5)

1. A gyroscopic rotor frame composed of a thin hollow spherical metallic shell having two hemispherical parts with interfitting portions connected thereto providing a circumferential band of greater thickness than the shell, a spaced pair of oppositely disposed bearing mountings connected to the respective hemispherical parts to project radially within the shell, and a gyroscopic rotor supported within said shell by said



bearing mountings to spin about an axis concentric with the axis of the circumferential band.

2,641,133
CAGING DEVICE FOR ATTITUDE GYROSCOPES
Clare E. Barkalow, Huntington, and Thomas A. Early, Jr., Sea Cliff, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application November 9, 1951, Serial No. 255,662
5 Claims. (Cl. 74—5.1)

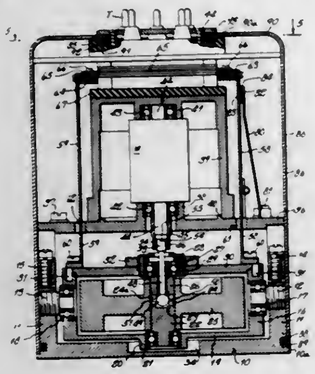


1. A caging device for a gyroscope having a gimbal mounting the same for freedom about major and minor axes comprising a slide mounted on said gimbal and having movement along the major axis thereof, a pin on said gyroscope projecting through a slot in said gimbal and an aperture in said slide, a cam surface within said aperture for engaging said pin to centralize the gyroscope about its minor axis as said slide is moved away from its normal position, a slidably mounted annular cam surface fixed against rotation and also adapted to be moved along said major axis away from its normal position, means on said slide engaging said surface when it is so moved to both move the slide away from its normal position and to rotate said gimbal to centralize the gyroscope about such major axis, whereby said gyroscope is centralized about both major and minor gimbal axes simultaneously.

2,641,134
GYROSCOPICALLY OPERATED MEASURING INSTRUMENT
Theodore W. Kenyon, Huntington, N. Y., assignor to Gyromechanisms, Inc., a corporation of New York
Application July 6, 1950, Serial No. 172,273
7 Claims. (Cl. 74—5.6)

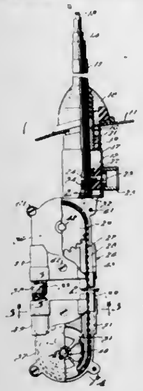
1. A rate gyro comprising a frame, a gimbal frame supported rotatively on a gimbal axis from said first-named frame, a gyro wheel rotatively supported for rotation in the gimbal frame about an axis perpendicular to the gimbal axis, a driving motor separated from the gyro wheel to eliminate all possible non-spinning mass from the gimbal frame and the gyro wheel, remote drive

connecting means between the motor and the gyro wheel, vane means mounted for movement with the gimbal frame, electrical take off means responsive to movement of the vane means, an



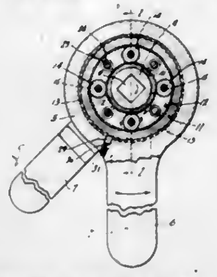
overall shell mounted on first named frame and enclosing the rate gyro, and sealing off means for protecting all contents of the shell against changes in external atmospheric environment.

2,641,135
ACTUATING MEANS FOR ANTENNAS AND THE LIKE
Frederick V. Gosline, Detroit, Mich., assignor, by mesne assignments, to Pioneer Specialty Company, a corporation of Michigan
Application August 15, 1950, Serial No. 179,569
3 Claims. (Cl. 74—95)



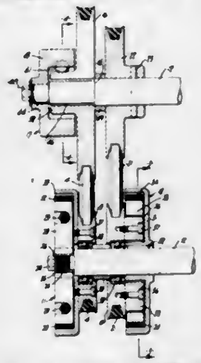
1. Means for longitudinally actuating an extensible radio antenna or the like comprising a flexible rod-like actuating element adapted to be connected to the antenna, a looped endless chain, one end of said rod-like element being secured to said chain and lying at least partly within the loop circumscribed thereby, a retaining pulley having separate retaining portions for holding said chain and said element in adjacent parallel relation with the rodlike element lying between the chain and the center of the pulley, and a driving sprocket in spaced relation with said pulley and operatively engageable with said chain.

2,641,136
RATCHET WRENCH
Morris B. Marsden, Jr., and James H. Marsden, Broadview, Ill.
Application December 3, 1949, Serial No. 131,013
3 Claims. (Cl. 74—143)



1. In a ratchet wrench, a head portion, gear means in said portion comprising a ring gear and a secondary gear having socket supporting means therein, a plurality of planetary gear means between said ring gear and said secondary gear, a stationary handle and a movable handle, pawl and ratchet mechanism interconnecting one of said handles with said ring gear and with said intermediate gear means, said planetary gear means being effective to cause rotary motion of said socket supporting means responsive to manual reciprocating motion of said movable handle while said stationary handle is restrained, and also when both of said handles are reciprocated together, spacing plates between all of said gears, supporting pins on said stationary handle for said spacing plates, all of said gears and spacing plates being encased in said head portion, said supporting pins being spaced between said first and second ratchet gears and between each of said planetary gears in order to reduce friction against the sides of all of said gears from said spacing plates.

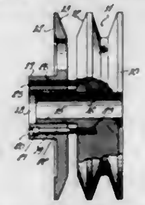
2,641,137
POWER TRANSMISSION MECHANISM
Dale C. Orcutt and Claud J. Dry, Athens, Ohio
Application August 28, 1951, Serial No. 243,942
5 Claims. (Cl. 74—217)



1. A power transmission mechanism comprising a driving shaft, a driven shaft, means including a centrifugal clutch on said driving shaft, driven by the driven shaft and responsive to a predetermined speed of the driven shaft to establish a driving connection between the shafts,

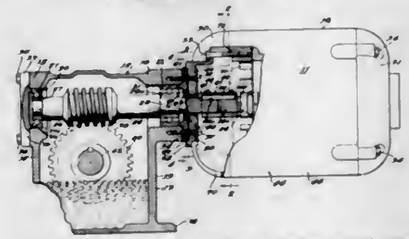
other means including a second centrifugal clutch mounted on said driving shaft responsive to a predetermined speed of the driving shaft to establish a driving connection between said shafts, and means on said driven shaft for discontinuing the driving connection established by the second named means when said first named means establishes a driving connection.

2,641,138
VARIABLE PITCH PULLEY
Joseph Janow, Dallas, Tex.
Application November 5, 1949, Serial No. 125,776
2 Claims. (Cl. 74—230.17)



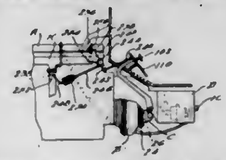
1. In a variable pitch multigrooved pulley, a peripherally grooved section having a plano face provided with a tapered perimeter, a hollow hub portion formed integrally with and extending outwardly from the center of said plano surface, said surface provided with a plurality of threaded openings, a companion pulley section having a plano surface confronting that of said peripherally grooved section and provided with a tapered perimeter complementing the tapered perimeter of said latter section to define therewith a belt groove, a hollow hub formed integrally with the center of the face of said companion pulley section opposite its plano face and having an uninterrupted bore of uniform diameter throughout, said hub freely embracing the hub portion of said grooved section, the hub of said companion section having circumferentially spaced threaded and unthreaded axial bores therein, a bolt disposed for free sliding movement in each of said unthreaded bores and adapted to engage the threaded openings in the confronting face of said grooved section to predetermine the relative spacing of said pulley sections, a plurality of set screws disposed in said threaded bores of said hub and adapted to bear against the confronting plano face of said grooved section to hold said sections in relative adjusted positions.

2,641,139
SPEED REDUCER DEVICE
Lowell E. Beisner, Elmwood Park, Ill.
Application November 9, 1949, Serial No. 126,400
5 Claims. (Cl. 74—425)



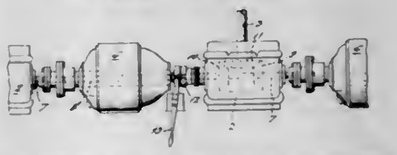
1. A speed reducer unit comprising input power means including a housing having a drive shaft rotatably mounted therein, output power means including a housing, bearings mounted in said last mentioned housing, and a drive shaft rotatably mounted in said bearings, connecting means releasably connecting said housing together in predetermined position relative to each other, said connecting means including a registration member extending into said second mentioned housing into abutment with one of said bearings for registering said housings in said predetermined position relative to each other, and coupling means in said first mentioned housing operatively connecting said drive shafts together for rotation of said second mentioned drive shaft by said first mentioned drive shaft.

2,641,140
POWER TRANSMISSION AND DRIVE CONTROL THEREFOR
Edwin R. Maurer and Joseph D. Caton, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 31, 1948, Serial No. 5,576
20 Claims. (Cl. 74—645)



1. In a motor vehicle driving system having an engine provided with a throttle valve, in combination therewith; a fluid power transmitting device having an input member and an output member; a change speed mechanism having a low speed ratio drive means and a high speed ratio drive means; and a driver operable control member for manipulating said throttle valve; said device and high speed drive means each including clutch means engageable in response to operation of said control member when the vehicle is above a predetermined speed for effecting a direct connection between said input and output members and effecting establishment of said change speed mechanism in high speed ratio drive in the order named.

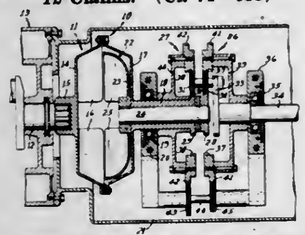
2,641,141
MACHINE DRIVE
Frederick William Schnell, Croton-on-Hudson, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application August 2, 1949, Serial No. 108,220
3 Claims. (Cl. 74—665)



1. A machine drive comprising a plurality of axially aligned electric motors having hollow shafts, a synchronizing shaft section within each hollow shaft and extending out of the same at each end, a further synchronizing shaft section between each pair of motors, drive connections for taking off machine unit drives from the said further synchronizing shaft sections, releasable couplings and clutches connecting all synchroniz-

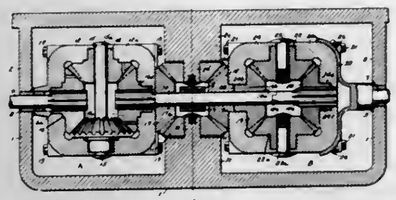
ing shaft sections together to form a common synchronizing shaft for all the motors, and means for releasably coupling each hollow motor shaft to an external part of the synchronizing shaft which is within it.

2,641,142
POWER TRANSMISSION
Ernest Klepetko, Jr., Aruba, Curacao, Netherlands West Indies
Application February 20, 1951, Serial No. 211,844
12 Claims. (Cl. 74—688)



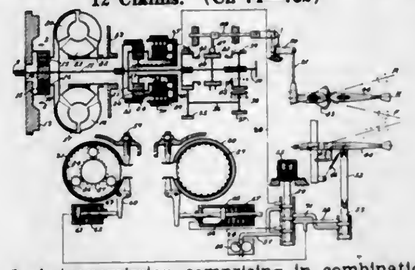
1. A power transmission mechanism comprising a slippable coupling having driving and driven members, an output shaft, first and second epicyclic gear trains each comprising a sun gear, a planet gear, and a ring gear, the sun gear of said first epicyclic train being connected to said driven member and the sun gear of said second epicyclic train being connected to said driving member, and the planet gears of both of said epicyclic trains being connected to the output shaft and being restrained from independent orbital rotation about their respective sun gears while being free to rotate independently about their respective axes, and gear means separate from said planet gears interconnecting the ring gears of said epicyclic trains and causing relative rotation of said ring gears whenever there is relative rotation of the sun gears.

2,641,143
PLANETARY TRANSMISSION
Guido Fernando Luis Nicolas Saraceni, Buenos Aires, Argentina
Application December 6, 1948, Serial No. 63,775
3 Claims. (Cl. 74—705)



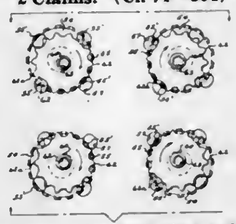
1. In a planetary transmission, a first differential gearing including a rotatable gear casing with aligned driving and driven gears carried thereby, a driving shaft on which the driving gear is mounted, an aligned intermediate shaft on which the driven gear is mounted, a second differential gearing including a rotatable gear casing with a driving gear therein on the intermediate shaft, and driven gear, a reverse gear arrangement intermediate the rotatable gear casing of the first differential gearing and the driven gear of the second differential gearing, and an aligned driven shaft connected to the rotatable gear casing of the second differential gearing and rotatable in a direction reverse to the direction of rotation of the driving shaft.

2,641,144
HYDRAULIC-MECHANICAL TRANSMISSION
Adolf G. Schneider, Muncie, Ind., assignor to Schneider Brothers Company, Muncie, Ind., a copartnership
Application September 12, 1947, Serial No. 773,595
12 Claims. (Cl. 74—732)



1. A transmission comprising in combination with driving and driven elements, a hydraulic turbo drive comprising at least a pump impeller and a turbine wheel, means providing a driving connection between said pump impeller and said driving element, a planetary gearing and a reverse gearing interconnected for transmitting drive from the turbine wheel to the driven element as a direct drive or as a gear ratio drive, said reverse gearing including a manually shiftable element shiftable to different positions for forward, neutral, and reverse, said planetary gearing including a ring gear with a brake drum thereon driven by said turbine wheel, planetary gears meshing with the ring gear and mounted on a carrier transmitting drive to the driven element, and a sun gear meshing with the planetary gears and carrying a brake drum and a clutch means, said carrier carrying a second clutch means operatively associated with said first clutch means, brake bands operatively associated with said brake drums, means to engage and disengage said clutch means, and means to engage and disengage said brake bands.

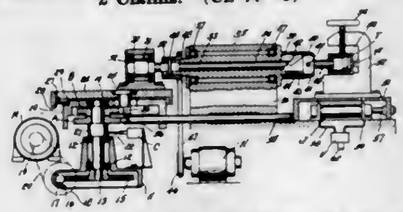
2,641,145
REDUCTION DRIVE USEFUL FOR VENETIAN BLINDS
Gottfrid C. Lawson, Cleveland, Ohio
Application June 7, 1947, Serial No. 753,216
2 Claims. (Cl. 74—804)



1. A reduction drive including a driving member, means for moving said driving member in an eccentric path, means for holding said driving member against rotation and guiding it in its eccentric path, said driving member having spaced teeth on its periphery extending parallel to its axis, some of said teeth being extended and disposed in engagement with said guiding

means, a driven member having radial teeth for engagement with those of the driving member and being of a less diameter than the driving member by an amount equal to the eccentricity of the orbit of the driving member.

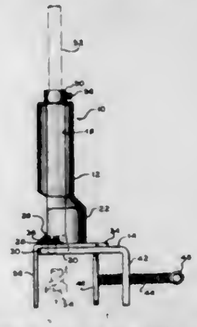
2,641,146
BORING AND TURNING MACHINE
Carl E. Dilts, Saginaw, Mich., assignor of one-half to Joseph H. Hoern, Saginaw, Mich.
Application January 19, 1946, Serial No. 642,352
2 Claims. (Cl. 77—3)



1. In a tool-operating mechanism of the class described comprising a bracket, a spindle carrier journaled thereon, a spindle mounted therein and including a rockable tool-carrier operable for radial movement about the axis of the spindle, a cutting tool on said carrier, a push-rod slidable in said spindle and formed with a head on the one end thereof, a push-rod slide adjacent said tool-carrier, a bracket mounted thereon, and in which the head of the push-rod is revolvably mounted, a longitudinally movable work-table, a rotatable cam for actuating said push-rod slide to move the free end of the push-rod into engagement with the tool-carrier to rock the tool in a direction away from and toward the axis of the spindle, resilient means opposing said rocking action, pressure means for forcing said table towards the tool, a rotatable cam independent of and synchronized with the push-rod slide actuating cam for controlling the movement of said work-table as it moves the work into engagement with the tool, and means for driving said spindle and a single power input shaft for mounting and rotating both of said cams such that they will rotate in unison with their cam lobes arranged in different angular positions.

2,641,147
BORING BIT GUIDE
Bedrick Sulc, Prince George, Va.
Application August 31, 1950, Serial No. 182,484
2 Claims. (Cl. 77—62)

1. A boring bit guide comprising a guide plate for engagement with the edge of a plank or the like, a downwardly extending projection at one edge of the guide plate, a tightening means mounted on said projection of said guide plate with a handle for operating such tightening means, a pair of angle shaped clamp members mounted on said guide plate with one leg of each angle member extending in substantially parallel relation to the projection of said guide plate and the other leg of each angle member adjustably and slidably mounted on the upper side of said guide plate whereby the angle members may be adjusted so that the said one leg of each may be adjustably fixed in spaced relation to said projection, said clamp members being spaced laterally of said tightening means whereby when the guide is positioned on the edge of a plank the clamp members are spaced from said tightening means laterally and longitudinally providing a three point support, a tubular shaped drill guide having an enlarged end mounted on said guide plate between said clamp members with its enlarged end abutting the upper surface of said



guide plate, means for removably securing said drill guide by its abutting end in fixed relation to said guide plate whereby different drill guides may be substituted.

2,641,148
APPLIANCE FOR FITTING VALVE SPRING COLLETS
Evan Meirion Arthur, Birmingham, England
Application February 23, 1949, Serial No. 77,941
In Great Britain February 24, 1948
3 Claims. (Cl. 81—3)

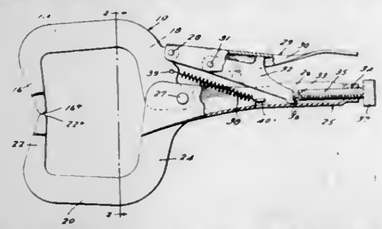


1. An appliance for fitting valve spring collets on valve stems, comprising a mounting member having a hand grip at the rear end, two arms pivoted together intermediate their ends on a pin carried by said mounting member, the outer end of each arm forming a cradle and an inner fixed clamping jaw for receiving a collet half, a sliding clamp mounted on each arm and having an outer clamping jaw co-acting with said fixed clamping jaw, a spring urging each sliding clamp outwardly towards the said hand grip on the support, thumb pieces on the outer ends of said sliding clamps located above the said mounting member and adjacent the hand grip end and adapted to be pressed by the hand holding the said hand grip to open the sliding clamp, ear pieces in the said pivoted arms at the rear of the pivot axis of the arms, a pin passing through perforations in said ear pieces and having stops on each end for limiting the opening movement of the arms, and a compression spring on the latter said pin between said ear pieces.

2,641,149
GRIPPING TOOL
Christian Petersen, De Witt, Nebr., assignor to Petersen Mfg. Co., Inc., De Witt, Nebr., a corporation of Nebraska
Application June 27, 1951, Serial No. 233,739
1 Claim. (Cl. 81—84)

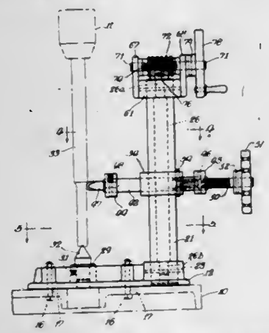
A gripping tool of the character set forth comprising two substantially C-shaped jaws disposed in a common plane with their open sides op-

posed, each jaw having a back bar and forward and rear legs extending from the ends of the back bar, a handle having one end rigidly fixed to the rear leg of one jaw, a pivot coupling between the end of the rear leg of the outer jaw and the said end of said handle, a handle lever, a pivot coupling between one end of said lever and the rear leg of said other jaw at a location a substantial distance outwardly from the pivot coupling between the end of the said leg of said other jaw and the said end of the fixed handle,



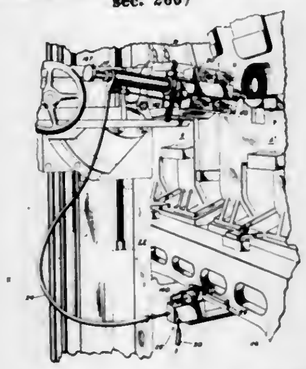
the free ends of the forward legs of the jaws being positioned to be brought into opposing contacting relation, and a toggle link coupling between the handle and the handle lever for locking the jaws against separation when the handle and handle lever are forced together, said C-shaped jaws being of flat form and each of said forward legs at its free end being enlarged laterally from each side of the leg to provide transversely extending gripping lips of substantial length, each of said gripping lips being tapered toward a rounded work engaging edge.

2,641,150
TURNING ATTACHMENT FOR DRILL PRESSES
Geoffrey M. Harry, Oak Park, Ill.
Application May 19, 1949, Serial No. 94,217
5 Claims. (Cl. 82—1)



1. An attachment for use with a vertical type drill press having a table and a rotatable chuck in elevated position above said table and adapted to grip and turn a piece of work, said attachment comprising a base, a centering member extending upwardly from the base and adapted to engage the lower end of the piece of work, an upright standard supported on said base in laterally spaced relation from said centering member and including a pair of elongated guide members and an elongated rotatable screw disposed substantially equidistant between said guide members in substantially the same upright plane, a tool carrier comprising an elongated block extending transversely in slidable engagement with said guide members and in threaded engagement with said screw, means for rotating said screw to effect movement of said block vertically of said standard during rotation of the work, an adjustable tool support comprising a pair of elongated slidable members each extending transversely through said block and substantially equally spaced between said screw and one of said guide members and in slidable relation with said block, means at one end of said support for holding a tool substantially perpendicularly with respect to said upright plane and in substantial radial alignment between said screw and said centering member whereby the reaction due to engagement of the tool with the work piece is substantially equally distributed between said guide members, and feeding means coacting between said block and the opposite end of said support for effecting lateral sliding movement of the support away from and toward the work.

2,641,151
POWER-OPERATED TOOLHOLDER
Luther E. Lee, Takoma Park, Md.
Application February 8, 1949, Serial No. 75,281
16 Claims. (Cl. 82—21)
(Granted under Title 35, U. S. Code (1952), sec. 266)

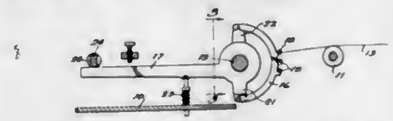


5. A cutter holding head for a machine tool comprising, a housing, a ram reciprocable in said housing, said ram having a piston at its upper end and supporting a cutter at its lower end, the piston having an elongated skirt with a pair of diametrically opposed stop lugs thereon, a spacer block supporting ring adjacent the lower end of the piston and having spacer blocks thereon in pairs of equal height to be positioned in the path of said stop lugs and limit downward movement of the piston, and means for rotating said ring to bring selected pairs of spacer blocks into the path of said lugs.

2,641,152
STRINGED MUSICAL INSTRUMENT
Herbert M. Hise, Chicago, Ill.
Application July 15, 1949, Serial No. 104,892
10 Claims. (Cl. 84—312)

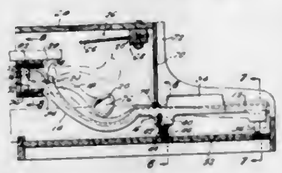
1. A stringed musical instrument comprising an elongated body, a plurality of strings extending along the body, means for securing the end portions of the strings to the body adjacent to its opposite ends, the means for securing at least a part of the strings at one end including parts

movably mounted on the body and to which the strings respectively are fastened, a rotatable shaft mounted on the body and having cam notches therein engaging said parts to position said parts, a pinion secured on the shaft, a rack mounted on the body and slidable longitudinally



of the body and meshing with the pinion, a U-shaped lever pivoted in its central part to the body to rock in one direction or the other as one end or the other is depressed, and a link connected at one end to the rack and at its other end to a point on the lever spaced from its pivot.

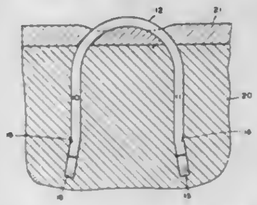
2,641,153
HAMMER ACTION FOR MUSICAL INSTRUMENTS
Jerome D. Enochs, Bronx, and Roy M. Brown, Brooklyn, N. Y., assignors to Jaymar Specialty Company, Brooklyn, N. Y., a partnership
Application October 26, 1948, Serial No. 56,532
16 Claims. (Cl. 84—403)



1. A key and hammer action for a toy piano, said action comprising a key with a rearward extension, means pivoting the same intermediate the extension and key, the free end of the extension extending upward and being bifurcated and pivotally carrying between the bifurcations thereof a hammer the head end of which extends toward the key and above the extension, and the tail end of which extends beyond the pivot of the hammer between the bifurcations of the extension, sound producing means disposed over said hammer, a first felted stop bar disposed below the rear end of the extension, and a second felted stop bar disposed above the rear end of the extension and hammer in such a position as to act as a stop for both, said latter stop bar being fixed at such height as to prevent the bottom end of the hammer head from striking the extension even when the key is in its raised or rest position.

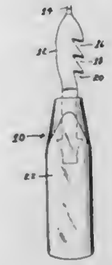
2,641,154
STAPLE HAVING DEFLECTING POINTS
Harold S. Heller, Cleveland Heights, Ohio
Application August 31, 1950, Serial No. 182,566
1 Claim. (Cl. 85—49)

A staple of rectangular cross section substantially throughout its length adapted to be connected with like staples in strip form for use in a stapling machine, the staple comprising a pair of laterally spaced legs, and a crown connecting the upper ends of said legs, each of said legs being provided with a single generally V-shaped notch adjacent but spaced from the lower work-penetrating end of the leg, the notches of the two legs extending inwardly and downwardly from the outer side surfaces thereof and receiving the material into which the staple legs are driven in use of the staple, with the consequent provision of an interlock between such material and the staple legs and also, bringing about lateral divergent movement of those portions of the staple legs below said notches, the front and rear surfaces



of the work-penetrating ends of the staple legs being of beveled or tapered form but the side surfaces of said work-penetrating ends being of generally straight and generally parallel form, the legs of the staple, with the exception of their work-penetrating ends, being of the same thickness and of the same width as the crown of the staple.

2,641,155
NETMAKING AND GAUGING TOOL
William F. Lowe, Beechhurst, N. Y.
Application January 2, 1952, Serial No. 264,388
7 Claims. (Cl. 87—54)

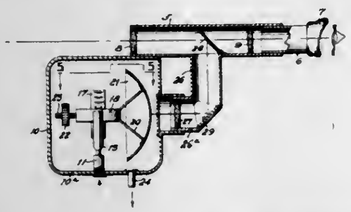


1. A net making and gauging tool, comprising a shank having a lower portion and an upper portion which is bent at an angle to the lower portion, a handle secured to the lower shank portion in alignment therewith, a loop-engaging finger formed at the top end of the upper shank portion and projecting forwardly therefrom at right angles thereto, and one side of said shank having notches therein.

2,641,156
AUTOMATIC FLASH SPOTTER
Alfred H. Canada, Schenectady, N. Y.
Application May 31, 1950, Serial No. 165,282
8 Claims. (Cl. 88—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)

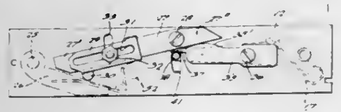
1. The combination with a gun mounted for universal angular movement, of a sight carried by said gun for angular movement therewith, a luminescent surface, means mounting said surface for translation as a unit with the gun, means for stabilizing said surface against angular move-

ment with the gun, and means including a partial reflector in the field of view of said sight for



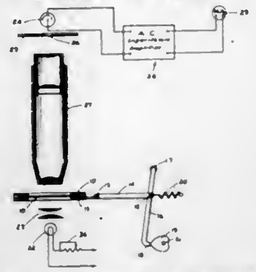
projecting and focussing light rays entering said sight onto said surface.

2,641,157
MOVING MECHANISM FOR PHOTOGRAPHIC RANGE FINDERS
Morris Schwartz and William Castedello, Plainville, Conn., assignors to The Kalart Company Inc., Plainville, Conn.
Application October 5, 1951, Serial No. 249,837
3 Claims. (Cl. 88—2.4)



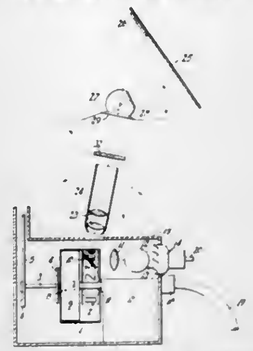
1. A moving mechanism for varying the pivotal position of the pivotal reflector of a photographic range finder of the type including a stationary semi-transparent reflector and a pivotal reflector and in which the pivotal position of the pivotal reflector is indicative of the range of an exterior object, the said moving mechanism comprising a rotatable drive shaft, an arm fixedly secured on one end to said shaft, a two-arm first lever pivotally mounted within the range finder, adjustment means for varying the effective length of one arm of said first lever, said adjustable arm being in sliding engagement with the free end of said shaft arm for pivoting the two-arm lever in response and corresponding to a rotation of said shaft, a second lever pivotally mounted within the range finder, said second lever being formed with a cam portion in sliding engagement with the other arm of the first lever for transmitting a pivotal movement of the first lever to the second lever, the said cam portion being convex relative to its acting surface on the said other arm of the first lever, the said acting surface being a flat surface, the effective length of the respective lever arm of the first lever controlling the ratio of transmission of the moving mechanism, a third lever operatively secured on one end to said pivotal reflector for pivotal movement in unison therewith, the other end of said third lever being in sliding engagement with the said second lever for transmitting a pivotal movement of the second lever to the third lever, and, hence, to the pivotal reflector, the pivot points of the second lever and the third lever and the points of engagement of the said levers being disposed in a spatial relationship such as to cause pivoting of the levers in the same rotational direction, and loaded spring means coacting with said levers so as to bias the same into a movement transmitting engagement.

2,641,158
GRAININESS METER
Monroe H. Sweet, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application December 29, 1948, Serial No. 67,858
1 Claim. (Cl. 88—14)



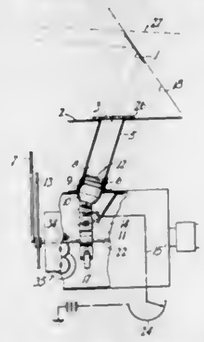
A device for measuring the graininess of a light transmissive substance, such as photographic film comprising a light source for transilluminating said film, a photosensitive tube having linear response characteristics, means between said source and said tube for directing a beam of light from said source onto said tube, means for animating said film transversely of the light beam whereby excitation of said phototube is varied in accordance with the light transfer characteristics of an explored area of said film resulting in an alternating current component superimposed upon said phototube current, means for compensating said linear response comprising an amplifier having logarithmic transfer characteristics energized from said phototube, an output circuit for said amplifier and means in said circuit for indicating in linearily varying units the magnitude of said superimposed component in terms of graininess, said units being representative of visual impressions in changes of density of said explored area.

2,641,159
VEHICLE INDICATOR OPTICAL PROJECTION DEVICE
Agis Ilaki Mihalakis, Buffalo, N. Y., assignor to Glowmeter Corporation, Buffalo, N. Y.
Application June 28, 1949, Serial No. 101,869
16 Claims. (Cl. 88—24)



1. In a vehicle having a windshield and an instrument panel adjacent said windshield, an indicating device carried by said panel and operatively connected to a functioning element of the vehicle, opaque screen means positioned adjacent the vehicle operator's line of sight through said windshield, said indicating device including a movable light-transmitting indicia-bearing member, projection objective lens means interposed between said indicia-bearing member and said screen means and focusing the indicia upon said screen means, said opaque screen means having a viewing surface comprising a brush-like finish running in one direction forming ridges and furrows and having a thin coating film of light-reflecting material over all portions of said ridges and furrows, and a light source concealed within said instrument panel in operative alignment with said indicia-bearing member and said projection objective lens means whereby an image of the indicia is projected upon said screen means.

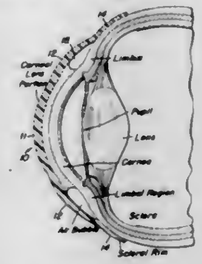
2,641,160
VEHICLE INDICATOR OPTICAL PROJECTION DEVICE
Agis Ilaki Mihalakis, Battle Creek, Mich., assignor to Glowmeter Corporation, Buffalo, N. Y.
Application January 17, 1949, Serial No. 71,340
17 Claims. (Cl. 88—24)



1. A motor vehicle having a windshield with an underlying instrument panel structure including a speedometer, said structure having an upper surface provided with a window directed toward the windshield, a screen forming button arranged on the inner surface of the windshield at the lower margin of the field of vision opposite the window and having a small disk-like reflective surface, a transparent member bearing speed indicating indicia and operable by the speedometer in response to speed variations, an objective lens interposed between the indicia bearing member and the button and focused upon the latter for projecting the indicia image directly thereupon, and a source of light concealed within the panel structure and serving to cast its light beam through the indicia member and the lens directly onto the button.

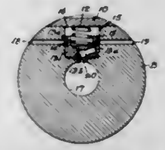
2,641,161
CONTACT LENS
Samuel W. Silverstein, Passaic, N. J.
Application December 13, 1950, Serial No. 200,530
3 Claims. (Cl. 88—54.5)

1. A contact lens comprising a corneal section of the lens covering a portion of the cornea of the eye and spaced therefrom so as to retain lacrimal fluid between it and the cornea by capillary action, said corneal section being larger than the pupil but smaller in size than the cornea, thus leaving a marginal annular portion of the cornea uncovered, a scleral section of the lens covering a portion of the sclera but leaving an inner substantially annular portion of the sclera uncovered, said scleral section being curved and shaped for contact with the sclera along a limited portion of the same, an intermediate section between said corneal and scleral sections, covering the limbal region of the eye and the adjacent substantially annular corneal and scleral portions, said intermediate section having a curvature of a smaller radius of curvature than the adjacent



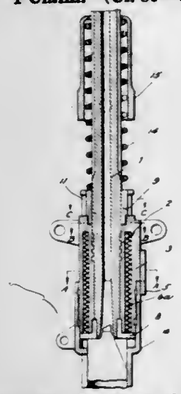
sections of the eye, so as to produce an enlarged annular space between the contact lens and the eye forming a pocket, bulging outwardly from the eye around the corneal section, the zone of transition joining said intermediate section and the scleral section having a contour shaped in accordance with the shape of the limbal region of the eye, and channels piercing said outwardly bulging intermediate zone for conducting the lacrimal fluid produced on the outside of the contact lens into the pockets on the inside, said pockets being thus filled partly with air and partly by the lacrimal fluid.

2,641,162
GUN BARREL COOLING MEANS
Charles E. Balleisen, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of War
Application February 4, 1942, Serial No. 429,496
10 Claims. (Cl. 89—14.1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. A cooling arrangement for a gun, said cooling arrangement comprising a barrel formed with a passage therethrough communicating with the bore of said barrel for admitting fluid under pressure to said bore, a valve device slidably mounted for longitudinal movement within a valve chamber intercepting said passage, said valve device in said chamber constructed and arranged to be moved away from said bore by gas pressure within said bore while maintaining said passage intercepted, and a spring within said barrel for moving said valve device toward the bore and into passage-opening position upon subsidence of the gas pressure within said bore.

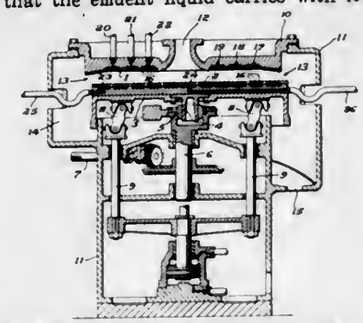
2,641,163
BUFFER MECHANISM FOR AUTOMATIC FIREARMS WITH BREECH MECHANISM LOCKED BY INERTIA
Hanns Lippert and Erwin Hepperle, Zurich, Switzerland, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland, a firm
Application January 7, 1942, Serial No. 425,890
In Switzerland July 26, 1940
Section 3, Public Law 690, August 8, 1946
Patent expires July 26, 1960
1 Claim. (Cl. 89—198)



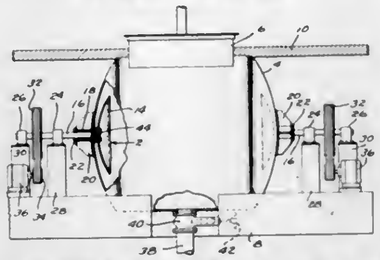
In an automatic fire-arm of the type wherein the breech mechanism is locked by inertia and wherein a buffer spring system is provided for damping the terminal forward and reaward movements of the breech block, the combination, with the breech block, of a breech casing composed of a breech casing head and a breech casing proper threadedly connected together, the casing head having a plurality of circumferentially spaced through bores, a plurality of buffer springs housed directly in said bores, said casing head having additional bores between the first-mentioned bores and open at the rearward ends and closed at their forward ends, additional buffer springs in said additional bores, a sleeve sliding in the breech casing head and supported against the breech casing proper, the buffer springs bearing at their rear ends against said sleeve, a ring threadedly connected with the breech casing head, and a buffer piece slidingly fitted on said ring and provided with a plurality of circumferentially spaced buffer rammers penetrating in the first-mentioned bores of the breech casing head, the forward ends of the springs in such first-mentioned bores bearing against said buffer rammers.

2,641,164
METHOD FOR PROCESSING FIBROUS PULP
Harold Sanford Hill, Kenogami, Quebec, Canada, and James T. Coghill, Rochester, N. Y.
Application July 8, 1946, Serial No. 681,918
18 Claims. (Cl. 92—20)

7. A method of fractionating papermaking pulp which comprises compressing pulp between and in tractive contact with two opposed working surfaces, moving the surfaces relative to one another with a relative translatory gyratory motion about an axis extending in the direction of compression while maintaining tractive contact of the surfaces with the pulp and compression of the pulp, thereby to roll the pulp traversingly in continually changing directions on and across the working surfaces, providing an excess of liquid in the pulp, allowing liquid to flow from the rolling pulp, and regulating the effluence of liquid so that the effluent liquid carries with it relatively finer constituents of the pulp, and continuing the rolling movement and compression of the remaining pulp and the flow of liquid therefrom until a desired fraction of finer constituents has been removed from the pulp.



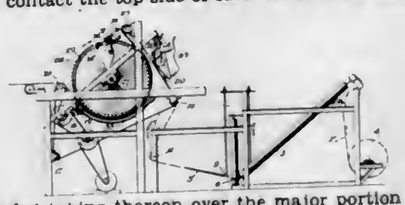
2,641,165
APPARATUS FOR EFFECTING DISINTEGRATION OF MATERIALS
Kurt Wandel, Downingtown, Pa.
Application October 14, 1949, Serial No. 121,270
4 Claims. (Cl. 92—26)



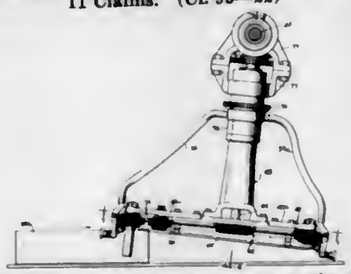
1. Distintegrating apparatus having in combination a vat adapted to contain water and the material to be disintegrated and a disintegrating impeller in said vat comprising a concave disk having its main body portion of hollow spheroidal configuration, the radius of curvature of said body portion being approximately equal to the diameter of the disk, said disk having permanently bonded to the marginal portion of its concave face a covering of crystalline abrasive material of discrete particles, and means supporting the disk for rotation at high peripheral speed about an axis to which said disk is symmetrical including a driving shaft projecting through the wall of said vat upon which said disk is mounted with its concave side fully exposed to the contents of the vat.

2,641,166
CONTINUOUS HEAT-SEALING APPARATUS
Victor Munroe Morrel, West Chester, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application July 18, 1952, Serial No. 299,587
5 Claims. (Cl. 93—18)

1. A bag making machine comprising in combination, means for continuously folding the longitudinal edges of a continuously advancing web of thermoplastic material inwardly and in overlapping relationship to define a flattened tubing consisting of a back side and partially overlapping top sides, positively driven endless belt conveyor means for supporting and advancing said tubing substantially free from tension, a heated element positioned to contact the uppermost top side of the supported tubing at the overlap whereby to impose a continuous longitudinal heat-seal joining the overlapped top side of the tubing, means for heating-insulating the top sides from the back side of the advancing supported tubing within the overlap area in contact with said heated element, a rotatable drum positioned to contact the top side of said belt and the heat-sealed tubing thereon over the major portion of the circumference of said drum whereby the drum is driven by said belt, an elongated heated element shiftably mounted on said drum for rotation therewith and located at the periphery of the drum in a position to normally contact the tubing on the drum on a line transverse of the tubing whereby to seal together the front and back sides of said tubing on a transverse line, cam means operative to shift said elongated heated element out of contact with said tubing at a predetermined point before the tubing is taken from said drum and to maintain said elongated heated element out of contact with the transversely sealed tubing, and means for guiding the tubing out of contact with said drum and belt.

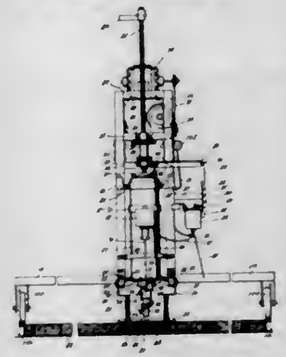


2,641,167
BAG BOTTOM FORMING DEVICE
Franco Gramegna, Milan, Italy, assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application October 9, 1950, Serial No. 189,271
11 Claims. (Cl. 93—22)



1. In apparatus for forming the ends of bag tubes, the combination comprising: a conveyor for moving such tubes; a pair of suction cups; means for moving said cups linearly along the path of movement of such bag tubes; means for mounting said cups for pivotal movement relative to one another, means for pivotally moving said cups from a closed-opposed position with the mouths thereof adjacent one another to an open position with such mouths separated, said cups, moving and mounting means being positioned and controlled for grasping the opposite sides of a closed end of a bag tube and opening same, said means for so linearly moving said cups being operable simultaneously with said means for so pivotally moving said cups; a flap folding device for acting upon an open tube end comprising a frame member, a pair of tongue guide members adjustably secured to said frame members, a pair of flexible tongues mounted for sliding movement in said guide members, the latter directing the outer extremities of each of said tongue members in opposite directions, means for slidably moving said tongues simultaneously relative to said guide members whereby such tongues can be extended or retracted, each of said tongues having a substantially V-shaped forming element secured to its outer extremity; and means for moving said flap folding device in timed relation to said conveyor and to a bag tube moved thereby, such moving means being constructed and arranged for inserting said folding device into the end of a bag tube which has been opened by said suction cup means and for actuating said tongues positively to form corner and side flaps upon the tube end.

2,641,168
MASTIC JOINT INSTALLING MACHINE
Joseph William Heitzel, Warren, Ohio, assignor to Donald T. Heitzel, Warren, Ohio
Application April 7, 1948, Serial No. 19,527
4 Claims. (Cl. 94—39)

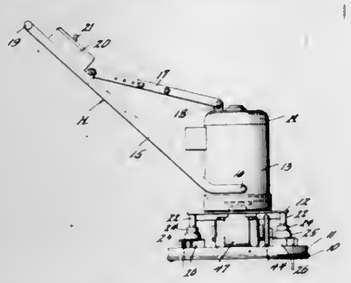


1. A machine for installing mastic joints in plastic concrete comprising a supporting structure, a mastic container mounted on said structure, a nozzle communicating with said container and adapted to enter a previously formed groove in the plastic concrete, means for feeding the mastic material from the container through the nozzle into the groove, a valve for controlling the discharge of the mastic material from the nozzle, a spring for biasing said valve to a closed position, a valve opening device for overriding said spring, and means for maintaining said valve opening device energized continuously during the operation of said feeding means.

2,641,169
CONCRETE SURFACING MACHINE
Carl F. Ytterberg, Yonkers, N. Y., assignor to Kalman Floor Company, Incorporated, New York, N. Y., a corporation of New York
Application July 16, 1948, Serial No. 39,001
2 Claims. (Cl. 94—45)

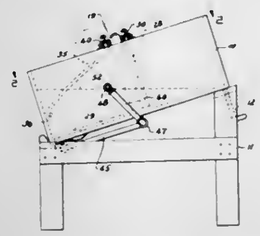
1. In a concrete surfacing machine, in combination, parallel work and drive plates, means re-

siliently connecting said plates for simultaneous rotation and relative movement vertically so that the work plate may vibrate independently of said drive plate, an eccentric mounted on the work plate, a motor disposed between said plates and connected to and supported by said drive plate, a flexible connection between said motor and eccentric, and means for rotating said drive plate,



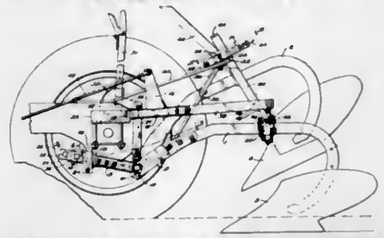
said last mentioned means including a motor the rotor of which is connected to said drive plate and the casing of which is to be restrained against rotation by a suitable handle connected to said casing, brushes carried by said drive plate, contact rings mounted on the casing of said last mentioned motor, and means electrically connecting the contact rings and the motor which drives the eccentric.

2,641,170
PRINT WASHING MACHINE
Cecil W. Hutchins, Vancouver, British Columbia, Canada
Application February 27, 1950, Serial No. 146,464
3 Claims. (Cl. 95—93)



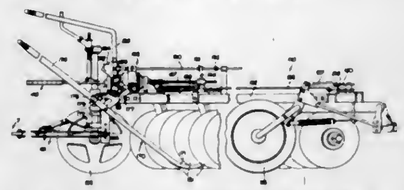
1. In a print washing machine, an open top receptacle having imperforate bottom and side walls, said receptacle being adapted to contain washing liquid at a predetermined level therein, an open top print holding basket having a substantially planar perforated bottom and a perforated side wall, means supporting said basket in the receptacle for rotative movement about an axis inclined between the vertical and horizontal, the bottom of the basket lying in a plane perpendicular to said axis and at an acute angle to the horizontal, so that the upper inclined portion of the bottom will be above and a lower portion below the level of the liquid in the receptacle to thereby alternatively immerse and remove prints from the liquid during rotation of the basket, and means for directing a jet of liquid against said planar bottom to rotate the basket and to agitate the prints therein.

2,641,171
TWO-WAY TRACTOR MOUNTED PLOW
Milton T. Hedquist, Keith Harroun, David D. Mayhew, Achiel Van De Sampel, and Arthur J. Whalen, Rock Island, Ill., assignors to J. I. Case Company, a corporation of Wisconsin
Application March 30, 1945, Serial No. 585,772
6 Claims. (Cl. 97—29)



1. A two-way plow adapted to be mounted on a tractor having a rear axle housing and a fixed, rear end hitching plate, comprising a draw bar having a pair of laterally spaced side arms and a rod extending from one of said arms to the other adjacent one end of each, said rod being rigidly secured to said arms so as to form a rigid ball-like draw bar, a bar adapted to be attached adjacent its central portion to the bottom of the rear axle housing of the tractor in transversely extending relation to the latter, a pair of braces respectively secured to the opposite ends of said bar and to the rear end hitching plate of the tractor, a pair of clevises secured to and projecting forwardly from the opposite end portions of said transverse bar and respectively embracing the opposite end portions of said draw bar rod adjacent the respective side arms, and a pair of plow beams respectively connected to the free ends of said draw bar arms.

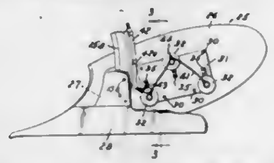
2,641,172
AUTOMATIC DEPTH CONTROL FOR AGRICULTURAL IMPLEMENTS
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Original application June 19, 1941, Serial No. 398,781. Divided and this application July 23, 1945, Serial No. 606,652
3 Claims. (Cl. 97—46.03)



3. For use in an implement adapted to be hitched to a tractor having a power unit thereon and wherein said implement comprises a frame carrying operating means, means on the implement for raising and lowering said frame and said operating means relative to the ground surface, means for operatively connecting said raising and lowering means with the power unit on the tractor to receive power therefrom, and means for controlling the application of power from said unit through said connecting means to said raising and lowering means: a ground-engaging member, means for movably connecting said

member with said implement frame, a connection between said ground-engaging member and said controlling means, said connection including two relatively movable parts, one adapted to be disengaged from the other and one connected with said ground-engaging member and the other connected with said controlling means, means fixing said parts in different positions of adjustment, whereby the relation between said ground-engaging means and said power-controlling means may be varied, and means carried by said implement frame and engageable with said ground-engaging means for holding the latter against movement relative to the ground when said parts are disposed in one position of adjustment.

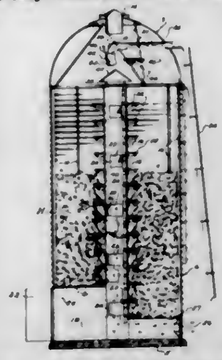
2,641,173
HEATING AND VIBRATING MEANS FOR PLOW MOLDBOARDS
Carey M. Rhoten, Huntington Woods, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application June 17, 1950, Serial No. 168,749
1 Claim. (Cl. 97—116)



An attachment for an implement having an earth-working element provided with a scouring surface, comprising a plate-like element shaped to conform to the contour of the rear face of said earth-working element, an electrically energizable resistance heating coil embedded in said plate-like element, an anvil rigidly secured to said plate-like element, and an electrically energizable solenoid mounted on said plate-like element adjacent said anvil, said solenoid having a reciprocable armature constructed and arranged to impart impact blows to said anvil and thereby to said plate-like element and said scouring surface upon energization of said solenoid, means for electrically energizing said heating element and said solenoid, means for rigidly mounting said plate-like element in intimate contact with the rear face of said earth-working element, said heating coil being in intimate heat exchange relation with the scouring surface of said earth-working element and said anvil being in vibration-transmitting contact with said earth-working element, whereby said earth-working element is vibrated and heated to improve the scouring properties of the scouring surface thereof.

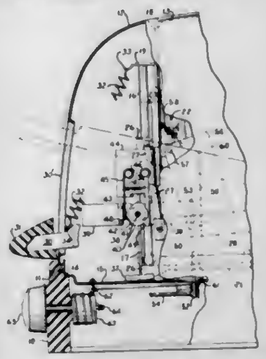
2,641,174
APPARATUS FOR STORING HAY
Carl Oberlin, Mansfield, Ohio
Application September 29, 1948, Serial No. 51,703
3 Claims. (Cl. 98—54)

1. A structure for storing hay having an exterior wall formed of a single thickness of sheet metal forming a vertical enclosure for receiving and retaining chopped hay in a vertical column, said wall being perforated throughout for the passage of air from the interior of the enclosure directly to atmosphere at all levels; a vertical air conduit centrally disposed in said enclosure, said conduit having longitudinally spaced openings in the walls thereof for the passage of air therethrough; valve means for selectively closing said openings; means for conveying chopped hay into the enclosure discharging the hay radially with respect to the vertical axis of said air conduit whereby the hay will fall substantially solely by



force of gravity into the enclosure and surround said conduit, and air impelling means for circulating air vertically through the centrally disposed air conduit and laterally through the hay column and wall.

2,641,175
ELECTRIC TOASTER
Ludwig J. Fichter, Rockford, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 20, 1947, Serial No. 792,909
13 Claims. (Cl. 99—329)



1. A toaster comprising, bread carriers movable from receiving to toasting position and being spring-biased to receiving position, a thermal timer for timing the duration of successive toasting intervals, heating means, said timer including a plurality of thermally responsive elements to act successively to time succeeding toasting intervals, each of said thermally responsive elements being movable from a position remote from said heating means to a position to be heated thereby, means for moving said carriers to toasting position, means for latching said carriers in toasting position, means actuated by the active of said thermally responsive elements for releasing said latching means to permit said carrier to return to receiving position, means actuated by the return of said carriers to receiving position for moving the active thermally responsive ele-

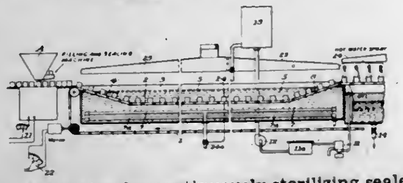
ment away from said heating means and an inactive thermally responsive element to an intermediate position and means actuated by a second movement of said carriers to toasting position for moving said inactive thermally responsive element into a position to be heated by said heating means.

2,641,176

PREPARATION OF CANNED PRODUCTS

Edward N. Higgins, Emsworth, and Vernon P. Evans, McKees Rocks, Pa., assignors to H. J. Heinz Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 21, 1945, Serial No. 600,690
2 Claims. (Cl. 99—362)



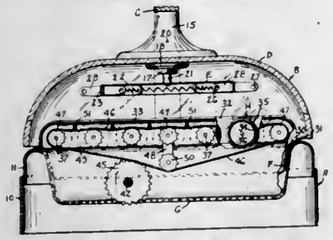
1. Apparatus for continuously sterilizing sealed cans of food or the like, comprising a trough, a bath of mineral oil in said trough having a boiling point at atmospheric pressure substantially higher than the boiling point of water, a conveyor extending into and out of and along the trough below the top of the trough so that cans on the conveyor will be submerged in the bath, high pressure steam pipes immersed in the liquid in the trough for heating the liquid, and low pressure steam pipes in the liquid having holes therein for the escape of steam into the bath for agitating the bath and directly heating the liquid.

2,641,177

COOKING APPARATUS

Lyonel T. Finizie, Grand Prairie, Tex., assignor to Edmond J. Finizie, Bridgeport, Conn.

Application December 5, 1950, Serial No. 199,218
5 Claims. (Cl. 99—422)



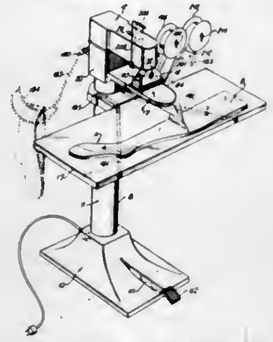
1. Apparatus for cooking articles of food such as frankfurters, comprising a cooking chamber having a hollow base and a liftable bell-shaped cover of glass, the cover having upper venting means and being adapted to admit air between itself and the base, a pan in the base insertable into the base and removable therefrom and carrying a series of imperforate rolls to support and rotate a plurality of frankfurters, means associated with the base for rotating said rolls, a heating element located in the upper part of the cover so as to create radiant heat applied to the frankfurters from above, and a pan in the base below the first pan arranged to hold liquid for generation of an upwardly rising curtain of vapor in the chamber.

2,641,178

HOSIERY MARKING MACHINE

Gustav C. Wendt and Peter C. Wendt, Jr., Boonton, N. J., assignors to Pohatcong Hosiery Mills, Inc., a corporation of New Jersey

Application November 3, 1950, Serial No. 193,938
5 Claims. (Cl. 101—9)



1. In an apparatus for forming a permanent mark of predetermined design in a fabric, the combination of means for supporting a bank of needles arranged in accordance with a predetermined pattern, means under manual control for moving the needle supporting means from inactive position into operative position to cause the needles to penetrate the fabric to be marked, said means comprising a reciprocatory head on which the needle supporting means is mounted and pivoted operating lever connected to said head, a timer, means for automatically initiating the operation of the timer when the needle supporting means is moved into operative position, latch means mounted on a fixed support and engageable with said head operating lever, for automatically holding the needle supporting means when the needle supporting means reaches operative position, solenoid means for releasing the latch means, means responsive to the operation of the timer for a predetermined period for actuating the solenoid means in position to release the latch means and to permit thereby the needle supporting means to return to inactive position, and means for returning the needle supporting means to inactive position upon release of the latch means.

2,641,179

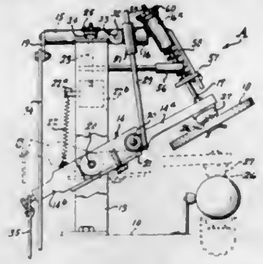
STAMPING APPARATUS FOR FRANGIBLE ARTICLES

John Stewart Campbell and William Brown, Melbourne, Ontario, and George Alexander Douglas, Mount Bridges, Ontario, Canada

Application July 30, 1948, Serial No. 41,436
5 Claims. (Cl. 101—44)

1. An apparatus for marking frangible articles such as eggs and the like and adapted to be mounted upon a device which brings individual members of a stream of frangible articles to a temporary halt therebeneath, comprising, a standard, a stamper arm pivotally mounted upon said standard so as to be swingable in the vertical plane, a stamp at one end of said arm, an inker arm swingably mounted on said standard, said inker arm having its swingable movement in an arcuate path transversely of the swingable movement of said stamper arm, an inking tray secured to said inker arm, and driving means adapted to pivot said stamping arm in and out

of stamping position, and to swing said inker arm causing said inking tray to engage said stamp when said stamping arm is out of stamping position, said inker arm being adjustably mounted in a tubular member, said tubular member being secured to a shaft, said shaft being rotatably mounted in a sleeve-like bearing, said bearing being rigidly secured to said standard,



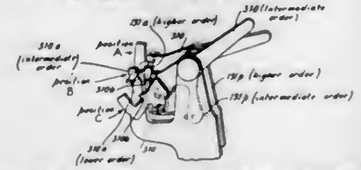
said shaft being connected to said driving mechanism by means of an actuating arm and a connecting rod, said stamper arm being connected to said driving means by means of a connecting rod, said driving means including a drive motor, a speed reduction drive, and a driving linkage connecting said reduction drive and said connecting rods.

2,641,180

ZERO SPLITS

Francis E. Hamilton, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application January 12, 1949, Serial No. 70,575
3 Claims. (Cl. 101—93)



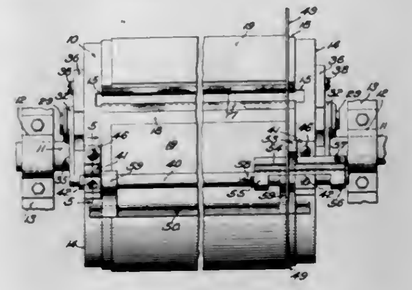
1. In a print unit having type carriers settable selectively to present significant digit types and 0 types at a printing line to be struck by hammers, when unlatched, for effecting printing of a number on a work sheet; a row of hammer latches, one for each hammer, mechanism for tripping the latches from hammers for striking significant digit types, and selective mechanism for tripping the latches from hammers for striking zero types, said selective mechanism including zero splits each comprising a centrally pivotally mounted lever mounted upon its supporting latch, one portion of said lever extending in one direction from its pivotal mounting and comprising a generally U-shaped portion having a longer side remote from said pivotal mounting and a shorter side, respectively closer to said mounting, another portion of said lever extending in the opposite direction from said pivotal mounting and comprising manually operable means for adjustably rotating said lever to three positions, a lug on another of said latches associated with a next higher order extending into the plane of movement of said lever, said lever in one of its three positions engaging said lug with the longer side of the U-shaped portion, said lever in another of its three positions engaging said lug with both the longer and shorter sides of said U-shaped portion and said lever in the third of said three positions removing both the longer and shorter sides of said U-shaped portion from engagement with said lug.

2,641,181

MEANS FOR POSITIONING AND REGISTERING PRINTING MEMBERS ON CYLINDERS OF ROTARY PRESSES

Edward Leeberg, Roselle, N. J.

Application November 3, 1950, Serial No. 193,878
3 Claims. (Cl. 101—174)



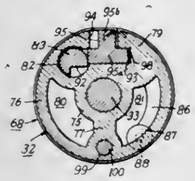
2. In a gage attachment to be successively applied to the different printing cylinders of a rotary press to aline and register flexible printing bands on the cylinders, the combination with a printing cylinder having a smooth cylindrical surface with a longitudinal slot extending from end to end to receive the ends of a flexible printing band encircling the cylinder, the said cylindrical surface having gage-locating holes near the ends of the cylinder and equally spaced from said slot, said cylindrical surface also having screw threaded holes spaced circumferentially from said gage-locating holes, of a gage device for removable attachment to the cylinder and comprising a gage rod disposed longitudinally of the cylinder, standards for supporting said rod parallel with the axis of the cylinder, said standards having elongated bases extending circumferentially of the cylinder with bottom faces longitudinally curved to conform to and contact with said cylindrical surface, locating pins projecting from said bottom faces adjacent one of the ends of said bases and disposed in said gage-locating holes, the other ends of said bases having holes to register with said screw threaded holes, headed screws in said registering holes to fasten said standards to the cylinder, said rod being longer than the cylinder and having one end projecting outwardly beyond one of said standards, a U-shaped slide having arms apertured to receive and slide on said rod, said slide straddling said one of said standards to position one of said arms on the projecting end of said rod, a vertically disposed gage plate fixed to said slide and having its lower edge curved to conform to the curvature of the cylinder and to coact with a printing band thereon, means for fixing said slide in an adjusted position on said rod, a gage bar disposed longitudinally of the cylinder and having a straight edge to coact with a printing band thereon, and a pair of suspending arms for said bar pivotally hung from said rod and disposed for contact with the opposite sides of said standards to prevent longitudinal movement of said bar, the lower portion of said gage plate being cut away to clear the rod and bar.

2,641,182
CANCELING AND DATING DEVICE
John H. Koffski, Chisholm, Minn.
Application October 26, 1949, Serial No. 123,565
2 Claims. (Cl. 101—329)



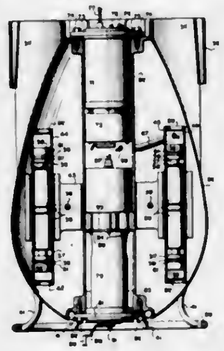
1. A cancelling and dating device comprising a substantially U-shaped frame including a web and spaced parallel flanges extending from said web, said flanges having aligned arcuate shaped slots having vertically elongated sections in their central portions adjacent the web, said flanges having further, aligned open end bayonet slots in their side edges adjacent their free ends, said bayonet slots terminating in vertical alignment with the vertical elongated sections of said arcuate shaped slots, a pin rotatably mounted in and extending between said arcuate shaped slots, a pair of parallel arms mounted on said pin, a shaft secured to and extending between the free ends of said arms, printing means journaled on said shaft, the ends of said shaft being seated in said bayonet slots and spring means between said web and said pin to yieldingly urge said pin into the elongated sections of said arcuate-shaped slots and thus urge said shaft into seating engagement in said bayonet slots.

2,641,183
IMAGE-REPRODUCING PLATE AND CYLINDER ASSEMBLY
John A. Boyajean, Jr., Upper Montclair, N. J., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware
Application July 24, 1948, Serial No. 40,595
2 Claims. (Cl. 101—415.1)



1. In a machine for producing on a plate from an image sheet a screened relief pattern suitable for image reproduction by printing processes, an image-reproducing plate and cylinder assembly comprising: an image-reproducing plate of flexible deformable material having parallel preformed tensioning flanges at either end thereof; a supporting cylinder mechanism having provisions supporting it for rotation and a longitudinal slot extending to the periphery thereof and a cylindrical recess extending longitudinally through said cylinder mechanism and in longitudinal communication with said slot; at least one tensioning member disposed in said slot and movable transversely thereof; said cylinder mechanism including a pair of oppositely inclined slots, at least one in said tensioning member, disposed to receive said flanges of said plate; and cylindrical camming means rotatably disposed in said recess and engaging said tensioning member substantially along its entire length for moving said tensioning member transversely of said slot to tension said plate about said cylinder, said camming means having a circular cylindrical surface portion engageable with said tensioning member for locking the same in its tensioning position.

2,641,184
STREAMLINE DEPTH CHARGE
Robert H. Park, Pluckemin, N. J., Royal Weller, Pullman, Wash., Arthur G. Russell, Arlington, Va., and Seth W. Booth, Hyattsville, Md.
Application August 25, 1942, Serial No. 456,048
11 Claims. (Cl. 102—7)
(Granted under Title 35, U. S. Code (1952), sec. 266)



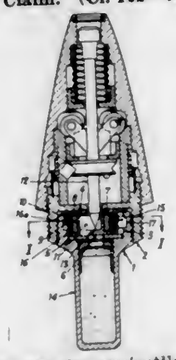
2. A depth charge of the character disclosed adapted to be launched from an attacking craft, a streamline casing for said depth charge, means secured to said casing for causing the depth charge to assume a vertical position within the water, means for causing the depth charge to rotate continuously while in said vertical position without substantial deviation of the axis of rotation thereof from the line of travel of the depth charge within the water, and means for firing said depth charge selectively in accordance with the gradient of a non-uniform magnetic field within which the depth charge travels, the sensitivity of said last named means being increased by the continuous rotation of the depth charge.

2,641,185
DELAYED-ACTION DETONATOR FOR FIRING EXPLOSIVES
John R. Lockett, Marietta, Ohio
Application April 7, 1951, Serial No. 219,812
8 Claims. (Cl. 102—20)

1. A detonator for wells comprising an elongated outer casing formed from a plurality of detachably connected longitudinally adjoining hollow sections; a chemical-receiving vessel carried within one of the sections of said casing and having an open mouth opening toward one end of said section; a stopper device carried at one end of another of the sections of said casing for closing the open mouth of said vessel upon connection of said first two-named sections; a fusible link extending through said stopper device for insertion within said vessel upon attachment of said first two-named sections, said link being formed from a material subject to chemical attack by a chemical contained in said vessel; a weighted striking piece slidably carried within said stopper-carrying section and supported at one end of said fusible link, said striking piece being arranged within said last-named section to fall from one end to the other thereof by gravity upon disintegration of said link and when said first two-named sections are positioned in a substantially vertical plane with said last-named section positioned below the vessel-carrying section; a percussion cap carried in an end of another of the sections of said casing for longitudinal alignment with said striking piece upon attachment of its casing section with the section carrying said striking piece; an explosive charge carried within the cap-carrying section of said casing adjacent to said percussion cap; and means carried on said first-named casing section for attaching said casing in a depending position to an end of a lowering line.

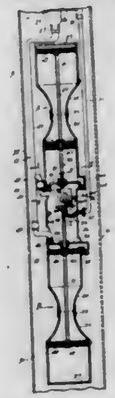


2,641,186
FUSE
Robert Apothéloz, Zurich, Switzerland, assignor to Machine Tool Works Oerlikon Administration Company, Zurich-Oerlikon, Switzerland, a company of Switzerland
Application October 29, 1948, Serial No. 57,156
In Switzerland November 3, 1947
1 Claim. (Cl. 102—79)



A detonating cap for projectile fuses, said cap comprising, in combination with a striker and a primer, a hollow body, a plate at the bottom of said hollow body, a sealing body displaceably mounted on said plate and having two curved halves, one of said halves being of substantially heavy weight, the other one of said halves having a recess and an aperture formed therein, a diaphragm sealing said aperture from said recess, said recess being adapted to be filled with heavy liquid material, said hollow body having a recess formed therein and communicating with the recess of the sealing body when said diaphragm is pierced, said sealing body further having a passage formed therein, and a shoulder separating said striker from said primer in the inoperative position of said sealing body, and a spring engaging said sealing body to shift it from said inoperative position to an operative position when the heavy liquid material has flown through said aperture from the recess of the sealing body into the recess of the hollow body, said passage establishing a communication between said striker and said primer in said operative position.

2,641,187
STRIPPER PUMP
Mozel A. Adams, Rayne, La., assignor of one-third to Charles J. Fontenot, Welsh, one-third to Amos B. Richard, Evangeline, and one-third to Lloyd William Fontenot, Welsh, La.
Application April 10, 1951, Serial No. 220,188
3 Claims. (Cl. 103—46)



1. In a single acting double plunger pump, first and second cylinder assemblies, means assembling said assemblies together in axial alignment and in axially spaced relation, each cylinder assembly comprising a fluid pumping cylinder and an air cylinder in end-to-end relation, pistons in said cylinders, and a piston rod tubular section connected to each of said pistons and having the end adjacent the air cylinder extending into the space between the cylinder assemblies, the pistons of said first and second assemblies being in opposite phase, an air valve assembly mounted on and in communication with said ends of said piston rod sections in the space between said assemblies, said valve assembly including a block having opposed passages, one of said piston rod sections being connected to one end of one of said passages and the other of said piston rod sections being connected to one end of the other of said passages, a shaft extending transversely through and rotatably supported in said block intermediate said passages, a disc secured to the end of

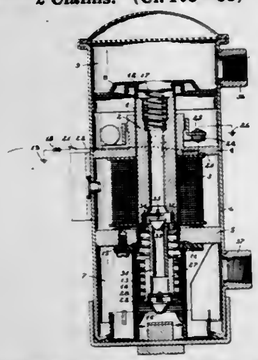
said shaft adjacent the other ends of said passages, said disc having a pair of spaced ports registrable with either of the other ends of said passages, there being an arcuate channel in said disc spaced from each of said ports and registrable with either of the other ends of said passages, there being an arcuate channel in said disc spaced from each of said ports and registrable with either of the other ends of said passages, an operating lever secured to the end of said shaft remote from said disc and movable from the other end of one of said passages to the other end of the other of said passages, said block having a chamber adjacent said disc and in communication with said ports, a compressed air supply connected to said chamber, air exhaust means for said air cylinder, fluid intake means for said fluid pumping cylinders, and a fluid discharge means connected to said pumping cylinders to receive fluid discharged from the pumping cylinders as the pistons therein are operated to compress fluid therein intaken by suction through said fluid intake means.

2,641,188

RECIPROCATING ELECTROMAGNETIC PUMP

K. Donald Aumick, Pine City, and John W. Dickey, Newfield, N. Y., assignors to Bendix Aviation Corporation, a corporation of Delaware

Application August 23, 1951, Serial No. 243,332
2 Claims. (Cl. 103—53)



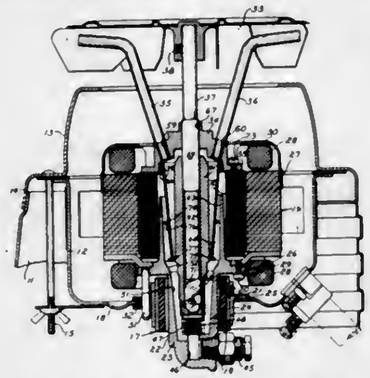
1. In an electromagnetic reciprocating pump a non-magnetic cylinder, a hollow magnetic plunger slidably mounted therein, a solenoid surrounding the cylinder, a casing enclosing the cylinder and solenoid and having partitions forming inlet and outlet chambers connected by said cylinder, a cup having a check valve in its bottom extending into the inlet chamber and having a sealed connection with the adjacent end of the cylinder, a spring in the cup pressing against the magnetic plunger, a buffer spring limiting the discharge stroke of the plunger, means including contacts controlled by the plunger for energizing the solenoid as the plunger approaches the end of the discharge stroke responsive to the pressure of said spring, and to deenergize the solenoid as the plunger approaches the end of the cocking stroke; a pump cylinder sealed to the bottom of said cup, a hollow piston slidable in the pump cylinder fixed to the adjacent end of the magnetic plunger in alinement therewith and a check valve in said piston; the means for attaching the piston to the plunger being provided with a passage connecting the interior of the plunger with the interior of said cup.

2,641,189

LIQUID FUEL BURNER

Edmond H. Haugen, Birmingham, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Application January 28, 1949, Serial No. 73,320
4 Claims. (Cl. 103—100)



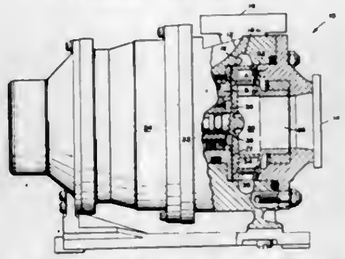
1. In a fuel oil burner, a rotor comprising a head, angularly disposed oil flinger tubes secured upon said head, a central shaft secured to said head, an oil lift cone having its upper end press fitted into said head, and an attachment ring for said cone press fitted into said head into abutment with said cone.

2,641,190

BALANCED IMPELLER FOR CENTRIFUGAL PUMPS

Thomas W. Johnson, Parsippany, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 22, 1949, Serial No. 128,813
2 Claims. (Cl. 103—103)



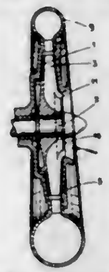
1. In a centrifugal pump of the type including a casing, an impeller chamber in said casing having front and rear walls, an axial inlet in said front wall, an outlet including an outlet chamber peripherally disposed about said impeller chamber, and an impeller mounted for rotation in said impeller chamber, said impeller having front and rear shrouds arranged in spaced relationship with the front and rear walls of said impeller chamber and pumping vanes interposed between said front and rear shrouds, said inlet opening into the interior of said impeller whereby the rotation of said impeller pumps a fluid from said inlet to said outlet, and said impeller being effected by an unbalanced pressure distribution over the inner and outer surfaces of the front and rear shrouds upon the pumping of a fluid as aforesaid, the improvement comprising a plurality of shallow grooves formed in the outer radial surface of said rear shroud opposite said inlet, said grooves extending radially inwards from the periphery of said rear shroud and effective upon the rotation of said impeller to rotate the fluid between said rear shroud and the wall of said impeller chamber adjacent said rear shroud whereby the rotational velocity of the rotating fluid is greatest adjacent the periphery of said rear shroud and the forces produced on the surface of said rear shroud by said rotating fluid are effective to balance the summation of all forces acting on the remaining surfaces of said impeller.

2,641,191

GUIDE MEANS ON IMPELLER FOR CENTRIFUGAL PUMPS OR BLOWERS

Alfred Buchi, Winterthur, Switzerland

Application November 18, 1947, Serial No. 786,605
In Switzerland November 12, 1946
5 Claims. (Cl. 103—108)



1. A centrifugal pump or blower having an axial inlet eye and a blade supporting wheel, impeller blading on said wheel, a casing about said wheel and said blading, said casing having an annular portion defining the outer perimeter of said eye, said wheel having a portion beginning near the center of said eye, extending axially inwardly and curving from axial to radial direction to define with the inner portion of said casing a curved annular passage subdivided by said blading whereby the fluid to be pumped or blown is admitted axially through said eye and is forced centrifugally radially outwardly of said blower wheel, and funnel shaped annular vane means disposed in said passage beginning at least within said eye and curving with the blower wheel portion and inner portion of said casing defining said passage to subdivide said passage into a plurality of smaller annular passages, said vane means being of such progressive diameters that the resulting ratios of the mean radii of curvature to the mean widths of said last mentioned subdivisions, measured in axial planes, are approximately equal for all said passages.

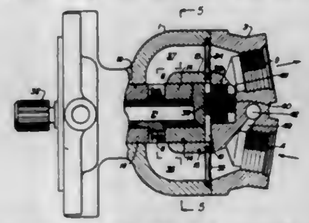
2,641,192

GEAR PUMP

Paul G. Lindberg, Willoughby, Ohio, assignor to Lindberg Trust, Cleveland, Ohio, a trust of Ohio

Application May 3, 1950, Serial No. 159,673
8 Claims. (Cl. 103—126)

1. A gear type pump comprising a hollow housing having a fluid inlet and outlet, said housing having a gear chamber and an auxiliary chamber in said housing between said gear chamber and said outlet, a pair of meshing gear members mounted in said gear chamber, each of said gear members having journals extending from the opposite faces thereof, an elongated one-piece bushing having flat front and back end faces, said bushing having straight side walls connected by curved ends, said bushing being mounted to have its entire periphery longitudinally slidable in contact with the inner surface of said hollow housing, said bushing being arranged axially of the adjacent axial faces of both of said gear members, said bushing surrounding and supporting



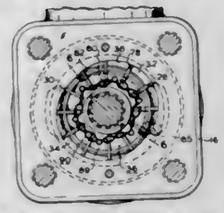
the adjacent parallel journals of both of said gears and having a front axial face cooperable with the adjacent axial face of its associated gear members to provide a seal between said bushing and said gear members and a piston slidably mounted in said auxiliary chamber in said hollow housing and in axial contact with the back face of said bushing and a fluid passage leading from the pump discharge outlet to said auxiliary chamber on the back face of said piston to provide a fluid pressure loading on the back of said bushing to urge said bushing against said gears.

2,641,193

POWER TRANSMISSION

Ernst F. Klessig, Berkley, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

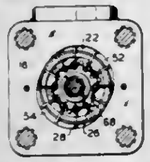
Application October 19, 1950, Serial No. 190,958
8 Claims. (Cl. 103—136)



1. In a fluid pressure energy translating device of the rotary vane type comprising a housing having a vane track of non-circular contour and a rotor mounted within the track having a plurality of generally radial slots, each slot having a vane slidably mounted therein the outer end of which is adapted to be constantly urged against the track, said track causing complete inward strokes of the vanes during a rotor revolution and each vane on an inward stroke having a complementary vane adapted to be on an outward stroke, that improvement comprising a plurality of bell crank members each of which is pivotally mounted at its central portion on the rotor between a pair of complementary vanes and outwardly of the innermost ends of the vane slots, the arms of each member underlying the inner ends of all intermediate vanes within the span between

complementary vanes and the outer ends of the arms engaging the inner ends of complementary vanes, said arms of each member being on two planes to avoid interference with the arms of adjacent members and being flexible to resiliently load the complementary vanes in engagement with the track, and said arms being of sufficient strength to transfer by lever action without substantial flexure the inward motion of one vane to its complementary vane to cause the outward stroke of said vane.

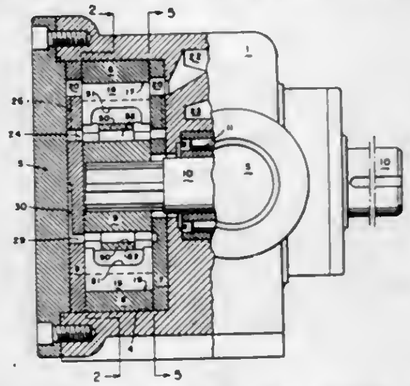
2,641,194
POWER TRANSMISSION
Glenn M. Jones, Farmington, and Harvey H. Duvall, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application October 20, 1950, Serial No. 191,114
5 Claims. (Cl. 103—136)



1. In a fluid pressure energy translating device of the rotary vane type comprising a housing having a vane track and a rotor mounted within the track having a plurality of generally radial slots, each slot having a vane slidably mounted therein the outer end of which is adapted to be constantly urged against the track, said track causing complete inward strokes of the vanes during a rotor revolution and each vane on an inward stroke having a complementary vane adapted to be on an outward stroke, that improvement comprising a plurality of bell crank members each of which is pivotally mounted at its central portion on the rotor between a pair of complementary vanes, the arms of each member underlying the inner ends of all intermediate vanes within the span between complementary vanes and the outer ends of the arms engaging the inner ends of complementary vanes, said arms of each member being flexible to resiliently load the vanes in engagement with the track and being of sufficient strength to transfer by lever action without substantial flexure the inward motion of one vane to its complementary vane to cause the outward stroke of said vane, the arms of each member being on the same plane, and means staggering the members in two planes on the rotor to avoid interference between the arms of adjacent members.

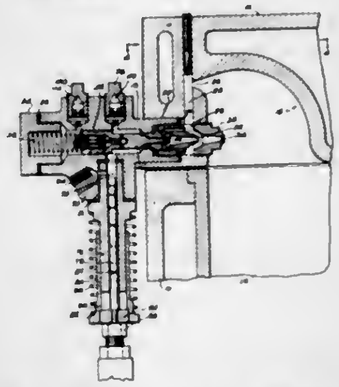
2,641,195
SLIDING VANE TYPE HYDRODYNAMIC MACHINE
Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 28, 1947, Serial No. 788,453
12 Claims. (Cl. 103—136)

1. In a hydrodynamic machine of the sliding vane type having a casing, two cheek plates arranged within said casing and an annular vane track arranged between said plates and forming therewith a chamber, the combination of a rotor arranged within said chamber and having an axial bore to receive a shaft and a plurality of vane slots extending inward from its periphery with the inner ends thereof spaced a substantial distance from said bore, vanes fitted in said slots and adapted to ride upon said track and to reciprocate in said slots during rotation of said rotor, said slots dividing said rotor into so many segments that the cross-sectional area of each segment at the inner end thereof is so small that a high pressure acting upon one side only of the outer portion of a vane would cause the adjacent segment to be deflected and to pinch the vane



in the slot at the other side of that segment, and a separator arranged in each of said slots with its outer edge spaced far enough from the bottom of that slot to prevent the segment on either side of that slot from being deflected enough to pinch the vane in the adjacent slot and with its inner edge spaced from the bottom of that slot to provide a passage therebetween.

2,641,196
FUEL PUMP
William V. Falcon, Revere, Mass.
Application June 2, 1947, Serial No. 751,831
2 Claims. (Cl. 103—154)



1. A fuel injection device for internal combustion engines comprising, in combination with a fuel pump having a plunger, a valve body having a cylindrical bore therein, a valve seat having a fuel passage at one end of said bore, a valve member slidable in said bore, said valve member being formed at one end as a piston of larger diameter fitting said bore and at its other end as a valve element of comparatively smaller diameter seating toward said seat, said pump being connected to said bore between said piston and said valve seat, a valve spring urging said valve member toward and onto said seat, a cap enclosing said bore at its end opposite the seat, a closed air space forming an air cushion connecting with said opposite end of the bore and located above it and said opposite end of the bore being normally filled with fuel oil during operation, an axial passage in said piston interconnecting the spaces in the bore on opposite sides of the piston and a pressure relief valve disposed in said axial passage, said relief valve being adapted to open in response to a predetermined greater differential fluid pressure in said end of the bore opposite the seat with respect to the fluid pressure in the end of the bore toward the seat, said valve member being unseated to allow fuel injection upon the pressure stroke of said pump plunger and against said spring and air cushion and thereafter excess fuel in said opposite end of the bore flowing back through said relief valve when its said differential pressure exceeds a predetermined amount upon the return stroke of the pump plunger.

2,641,197
RECIPROCATING PUMP WITH MOVABLE CYLINDER
Seelmer L. Stone, Kiefer, Okla.
Application May 19, 1949, Serial No. 94,102
2 Claims. (Cl. 103—158)



1. A sub-surface pump including in combination with a well tubing and a string of pump rods, means sealingly engaging the well tubing to form a fluid receiving chamber thereabove in said well tubing and having a bore communicating with the fluid supply therebelow, a tube longer than the normal pumping stroke of the pump rods threadedly engaged in the bore and extending upwardly in the well tubing, a hollow plunger threaded on the upper end of said tube for passage of fluid through the tube and plunger, a working barrel suspended and reciprocable by the pump rods and sleeved over the plunger and said tube, valve means on the working barrel, valve means on the plunger cooperating with the valve means on the working barrel in effecting elevation of fluid into the well tubing in response to reciprocation of the working barrel, a collar fixed on the tube adjacent the lower end thereof, a guide member of less length than said normal stroke of the pump rods fixed to the lower end of the working barrel and slidable on the tube, said guide member being spaced below the plunger at its uppermost position and above the collar in its lowermost position in a normal pump stroke of the pump rods, inter-engageable means on the collar and guide member spaced from the axis thereof and selectively engageable by movement of the working barrel beyond the lower limit of the normal pumping stroke for rotation of the pump rods and working barrel for disconnecting the tube from the bore of the sealing means for removal of the plunger and working barrel from the well tubing, and interengageable means on the plunger and guide member spaced from the axis thereof and selectively engageable by movement of the working barrel beyond the upper limit of the normal pumping stroke for rotation of the pump rods and working barrel for disconnecting the plunger from the tube.

2,641,198
LATCHING MECHANISM FOR DOORS FOR HOPPER TYPE RAILWAY CARS
Albert E. Zimmer, Chicago, Ill., and George B. Dorey, Westmount, Quebec, Canada, assignors to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application August 24, 1949, Serial No. 112,034
3 Claims. (Cl. 105—308)

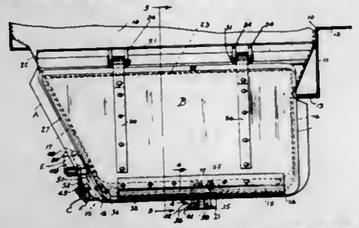


1. In a railway car having a hopper with a discharge opening and a door hinged along the upper side of said opening and swingable to an inclined position for closing the same, in combination, a shouldered element carried by said hopper having a hook-shaped portion extending generally at right angles to the hinge axis of said door and opening upwardly, and a latching bar pivotally mounted on said door to swing substantially parallel thereto for engaging said hook-shaped portion to hold said door closed, said hook-shaped portion being of appreciable width and having pairs of stepped shoulders parallel to said door with the upper and lower edges thereof defined by lines sloping in opposite directions from the central portion of said hook-shaped portion whereby secondary and main locking shoulders are provided for cooperating with said latching bar to hold said door respectively in partly and fully closed position, the upper side of the bottom of said hook-shaped portion being arched upwardly and conforming to the lower edge of said main locking shoulders, said latching bar having a surface parallel to the path of its swinging movement for engaging said locking shoulders and its underside which is coextensive with said shouldered element arched downwardly conformably to said upwardly arched side of said hook-shaped portion, said stepped shoulders being interconnected by a wedging surface and symmetrically arranged so as to be engaged by said latching bar when it is pivoted on either side of said hook-shaped portion.

2,641,199
DOOR LOCKING MECHANISM FOR HOPPER CAR DOORS
George Binet Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application May 1, 1947, Serial No. 745,268
1 Claim. (Cl. 105—308)

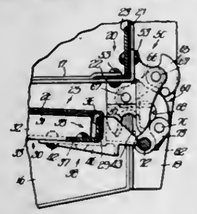
In a railway car hopper structure including a sloping bottom wall and a discharge door pivotally mounted adjacent the upper part of the hopper, in combination, latching mechanism for retaining said door in closed position comprising a seat member depending centrally from the lower edge of said door, a shaft rockably mounted on the underside of said wall, and a latch arm

fast on said shaft and extending therefrom to overlie said lower edge of said door when the same is closed and having a pair of spaced walls



with a shoulder therebetween, said walls straddling said seat member and said shoulder engaging the same to hold said door closed.

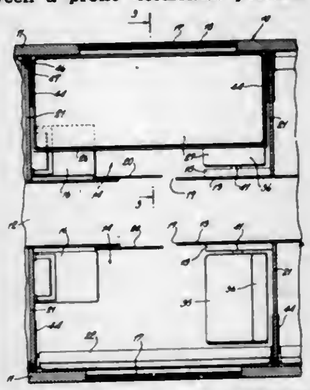
2,641,200
DUMP DOOR OPERATING MECHANISM
George B. Dorey, Montreal, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application December 29, 1950, Serial No. 203,407
10 Claims. (Cl. 105—309)



1. In a dump car having a pivotally mounted door and door supporting mechanism adjacent the swinging edge of said door, said mechanism including a pair of swinging links pivotally mounted to swing on axes parallel with the axis of the door and a shaft eccentrically mounted on said links to have swinging bodily movement about its axis and assume either a folded toggle locked position with respect to the swinging links to support the door in fully closed position or move to an open extended position to support the door in partially closed position, said shaft being supported wholly by said links and when in extended position being freely swingable in unison with the supporting linkage; and means on the car structure engaging the shaft for holding the linkage against swinging consequent upon movement of the shaft toward final locking position.

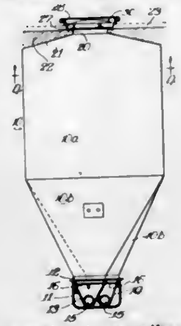
2,641,201
BED AND SEAT STRUCTURE
Robert W. Sampson, New York, N. Y., and William E. Montgomery, Wilmington, Del., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 27, 1947, Serial No. 750,788
4 Claims. (Cl. 105—315)

1. In a sleeping car having a room with a side wall and transversely extending end walls, a bed substantially coextensive longitudinally with the room, vertical guideways carried by the side walls forming a part of the end walls, horizontal guideways carried by the end walls, and means fixed to project from the ends of the bed and engaging in the guideways whereby the bed will be supported and guided sidewise in an arcuate path between a prone horizontal position and



a storage position resting on one side adjacent the side wall.

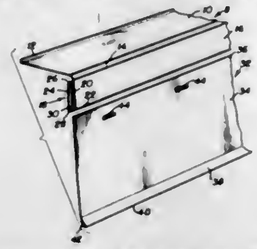
2,641,202
HOPPER FOR STORING AND SHIPPING FINELY DIVIDED MATERIALS
Paul Talmey, Barrington, and John M. Gleason, Chicago, Ill., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York
Application October 8, 1948, Serial No. 53,574
4 Claims. (Cl. 105—377)



1. The combination in a railway car, of a car superstructure having a roof, said roof having a hatch opening, a hatch door for said opening, a hopper for finely divided material mounted beneath said roof and having a filling opening in alignment with said hatch opening, and a hatch cover for said filling opening, said hatch cover comprising a filter for admitting air to said hopper and preventing the entrance of dust, and a hood located above and movable with said filter for preventing the entrance of moisture of condensation through said filter when said hatch cover is closed.

2,641,203
COUNTERFLASHING AND ANCHOR CAP THEREFOR
Lewis B. Coleman, Cheyenne, Wyo.
Application January 7, 1952, Serial No. 265,226
5 Claims. (Cl. 108—26)

1. In a flashing construction, in combination, a cap unit embodying a flat plate having an upstanding keying flange along an inward longitudinal edge and a depending lengthwise apron along an outward longitudinal edge, a lengthwise inverted U-shaped flashing assembling and retaining channel opposed in parallelism to an interior surface of said apron and joined to the lower edge portion of said apron by way of an integrating bend, said channel embodying an outward flange, an inward flange and a bight portion



interconnecting said flanges, said inward flange having shoulder means interposed between said flanges, and a counterflashing embodying a plate portion having an edge portion fitting between said flanges, said plate portion having resilient detent means engaging and held in position by said shoulder means, whereby said counterflashing is interlocked with said apron by way of said channel.

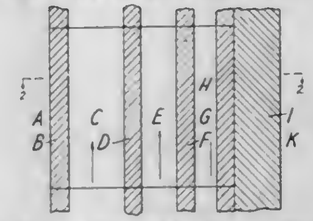
2,641,204
ROOFING RETAINER
Homer C. Young, Milwaukee, Wis.
Application January 21, 1949, Serial No. 71,993
4 Claims. (Cl. 108—33)



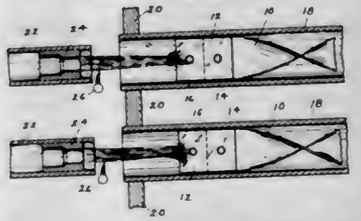
1. A roofing retainer comprising a sheet metal member bent to form a base plate and an outwardly offset spring tongue projecting upwardly from the middle of the upper edge portion of said base plate, said base plate extending laterally at opposite sides of said tongue and having a notch in its upper edge at the junction of said tongue with said base plate, and said base plate projecting upwardly and downwardly from said junction, the downward projection of said base plate from said junction being greater than the upward projection.

2,641,205
COOLING WALL FOR HEATED CHAMBERS
Richard Doležal, Ostrava, Czechoslovakia
Application October 23, 1947, Serial No. 781,648
In Czechoslovakia June 19, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 19, 1965
4 Claims. (Cl. 110—1)

1. A cooling wall structure for combustion chambers comprising a first inner wall element which directly encloses the combustion chamber, a second wall element located in parallel outwardly spaced relationship with said first wall element, a first set of partition walls disposed between the said two wall elements in parallel relationship therewith and spaced from the inner and outer wall elements and from each other a successively decreasing distance from the inner wall element to the outer wall element, a plurality of secondary parallel and aligned partition walls connecting said wall elements and the first mentioned partition walls at spaced intervals throughout their extent whereby a plurality of separate series of flues result, the respective flues of each series being of successively decreasing cross sectional area from the inner wall element to the outer wall element and means for passing a cooling gas through said flues.



2,641,206
FIRETUBE BAFFLE INSERT WITH PROTECTED TIP FOR HEAT EXCHANGERS
Minor Woolfolk Stout, Webster Groves, Mo.
Application November 5, 1947, Serial No. 784,283
7 Claims. (Cl. 110—97)

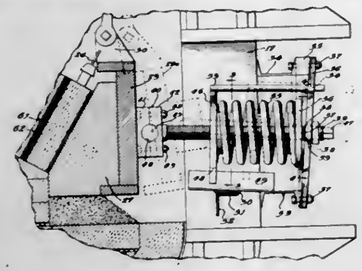


6. An axially extended helicoidal strip of metal that is adapted to be positioned within the fire tube of a heat exchanger, said strip being adapted to bisect said fire tube and having curved, axially extended, helicoidal surfaces adapted to force the products of combustion within said tube to change direction from normal axial flow and to experience turbulence, and a tip of low heat conductive refractory material that comprises thin sheets of low heat conductive refractory material which are attached to and supported on one end of said strip of metal, said tip enclosing the end of said strip of metal and extending ahead of said end of said strip of metal.

2,641,207
FURNACE ARCH CONSTRUCTION
Charles F. Pollen, Winnetka, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware
Application December 6, 1948, Serial No. 63,815
4 Claims. (Cl. 110—99)

1. Yielding means for exerting pressure on the bricks of a furnace arch through a supporting block for said arch at one end thereof, comprising a pivotally supported frame member adapted to engage said block and backing means for said frame member including a shaft, means pivotally connecting said shaft at one end to said frame member, said shaft being rotatably mounted in said means and projecting outwardly therefrom, a fixed abutment disposed at the other end of the shaft, the shaft being movable with respect to the

abutment in a direction lengthwise of the shaft, a movable plate threaded onto the shaft and spaced from the abutment, means engaging said plate to hold the same aginst rotation, said plate being movable angularly relative to said abut-



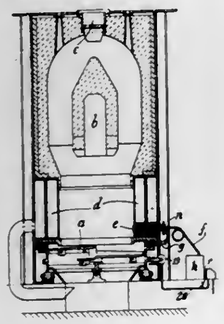
ment, and a spring interposed between the movable plate and the fixed abutment and mounted on the shaft, the shaft being rotatable in the plate to effect adjustment of the spacing of the movable plate with respect to the abutment so as to vary the compression of the spring.

2,641,208

AUTOMATICALLY CONTROLLED ASH REMOVING GRATE

Frederick Joseph West and Ernest West, Manchester, England, assignors to West's Gas Improvement Company Limited, Manchester, England, a British company

Application August 23, 1949, Serial No. 111,906
In Great Britain September 6, 1948
6 Claims. (Cl. 110—165)



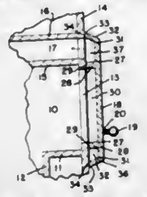
1. In a gas producer having a grate, a hydraulic motor for turning the grate in order to effect extraction of ash from the base of the producer, and a water jacketed wall, surrounding the combustion zone, the provision of a bulb containing an expansible fluid, in the water jacketed wall at about the desired level of the top of the ash bed, a diaphragm casing, a diaphragm dividing the casing into two parts, one part being in communication with the bulb, a housing in communication with the other part of the casing, a plunger in the housing adapted to be displaced by the diaphragm through the medium of a fluid, the plunger controlling the rate of outflow of the exhaust fluid from the hydraulic motor driving the producer grate.

2,641,209

FURNACE FIRING DOOR FOR ENTRAPPING AND RELEASING ESCAPE GASES

Lyall L. Lowe, Sioux City, Iowa

Original application December 7, 1945, Serial No. 633,379. Divided and this application September 22, 1948, Serial No. 50,620
1 Claim. (Cl. 110—173)



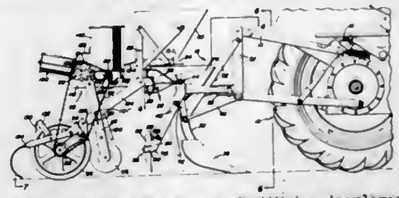
In combination with a furnace, said furnace having an off-take flue for gases of combustion, and a firing door opening, a firing door including a substantially perimetrally arranged channel having inner side flanges and outside flanges integral with said door, said flanges contacting forward furnace portions adjacent to the firing door opening to thereby entrap escape gases when said door is closed, means forming a passageway communicating to a portion of said channel, and to said flue.

2,641,210

TRACTOR-MOUNTED FERTILIZING IMPLEMENT

Harvey Brock, Carrollton, Ga.

Application January 30, 1950, Serial No. 141,230
1 Claim. (Cl. 111—65)



For use with a tractor, a fertilizing implement comprising a first frame carried by said tractor to travel therewith, a chute and a plow in front of said chute both carried by said first frame, a hitch means in alignment with said chute and plow fixed to said first frame and extending rearwardly thereof, a second frame pivoted to said hitch means to swing about a vertical axis, a fertilizer hopper secured to said second frame and positioned over said hitch means, said hopper being provided with movable feed means, said feed means having a forwardly located discharge end positioned over said chute, and means for imparting movement to said feed means to discharge fertilizer into said chute for deposit in the furrow formed by the plow including a ground engaging wheel mounted on said second frame in alignment with said chute and plow, said wheel serving to support said second frame and pack the deposited fertilizer.

2,641,211

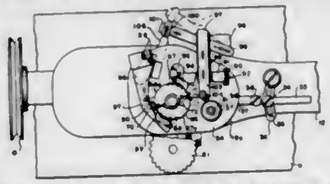
AUTOMATIC BAR TACKING CONTROL MECHANISM FOR BUTTONHOLE SEWING MACHINES

George Minkowitz, New York, N. Y.

Application July 5, 1951, Serial No. 235,290
17 Claims. (Cl. 112—73)

1. Bar tacking control mechanism for buttonhole stitching machines of the type having a main

drive shaft, a vertically and transversely reciprocable needle bar, means actuated by said main drive shaft for causing said needle bar to carry out its stitching motions, a workholder movable in a horizontal plane underneath said needle bar longitudinally and transversely relative to the machine, a workholder drive for stepwise and cyclically shifting said workholder, and means including a releasable clutch for coupling said workholder drive to the main drive shaft, said bar tacking control mechanism comprising a rotary member coupled to the workholder drive, a sector toothed ratchet gear member, a lost motion coupling between said two members operative to transmit rotary motion in one direction from said rotary member to the ratchet gear member when the two members assume a certain coupling position with respect to each other, and permitting said ratchet gear member to advance relative to said rotary member from said coupling position for a fraction of a turn, a reciprocable member continuously actuated by the main drive shaft in synchronism with the transverse movement of the needle bar, a feed pawl supported on said reciprocable member and permanently biased toward said ratchet gear member to advance the



latter stepwise in the same rotary direction a predetermined amount for each stitching movement of said needle bar whenever any of its ratchet teeth are within reach of said pawl, a cam element on said ratchet gear member, and a device including a cam follower controlled by said cam element to release said clutch at a predetermined stage of each advancement of said ratchet gear member by said rotary member and to keep it released during at least part of each advancement of said ratchet gear member by said pawl, the various elements being so proportioned and related that the clutch is released and the workholder drive and the rotatable member are stopped whenever the workholder reaches a predetermined point of its cycle at which the ratchet gear member is positioned for engagement of its ratchet teeth by said pawl, whereupon the ratchet gear member and its cam are advanced by said pawl relative to said rotatable member for a predetermined number of steps at the end of which the cam member has reached a position to permit reengagement of said clutch, thereby causing said rotatable member to resume its motion and to return to its coupling position relative to the ratchet gear member for the start of a new cycle.

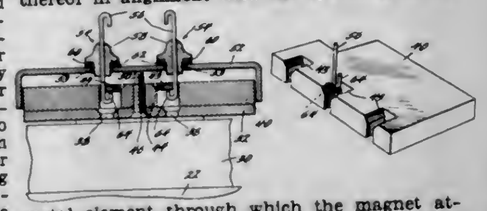
2,641,212

MAGNETIC HOLDING FIXTURE FOR SOLDERING TERMINALS

Emil E. Meilstrup, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 28, 1949, Serial No. 107,303
4 Claims. (Cl. 113—59)

1. A soldering fixture for holding magnetically susceptible articles in a heating coil, comprising a frame movable relative to the heating coil, a magnet secured to the frame, a non-magnetic member secured to the frame directly above the magnet for supporting a metal element and terminal units positioned in apertures in said element, each unit having a depending offset end portion of magnetically susceptible wire, said non-magnetic member having slots bevelled at their entrance ends at the upper surface thereof in alignment with the apertures in the



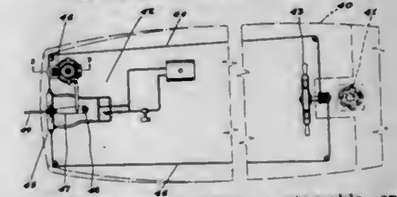
metal element through which the magnet attracts and pulls the terminal units against said metal element for soldering, said bevels orienting said terminal units into aligned positions, and means for moving the non-magnetic member and terminal units and the metal element into the heating coil.

2,641,213

AUTOMATIC STEERING SYSTEM

Carleton H. Bolin, Seattle, Wash.; Jessie R. Bolin, executrix of said Carleton H. Bolin, deceased

Application July 19, 1945, Serial No. 605,992
16 Claims. (Cl. 114—144)



1. The combination with a steerable craft having a rudder and a rudder stock, of automatic steering means comprising a tiller arm fixedly secured at one end thereof to said rudder stock; a fluid pressure power cylinder operatively supported adjacent the opposite end of said tiller arm; a reciprocative piston in said cylinder adapted to be connected to said tiller arm for continuously oscillating the same; fluid pressure means for actuating said piston; fluid pressure control valves interposed in said supply means; a magnetic pilot compass having a compass bowl interconnected with and continuously oscillated by said tiller arm; course orienting means for said compass bowl; electrical contact means carried by said compass bowl and operable upon orientation of the same; an electrical control unit in circuit with said contact means whereby said unit is successively energized and de-energized during periods of compass bowl oscillation for effecting sequential actuation of the fluid pressure control valves aforesaid, and means operable both during active and inactive automatic steering periods for manually steering the craft.

2,641,214
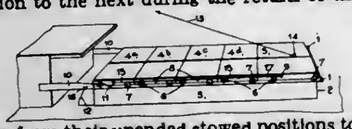
STEEL HATCH COVER

Robert MacGregor and Joseph MacGregor, Whitley Bay, England

Application October 7, 1948, Serial No. 53,246
In Great Britain July 6, 1948
2 Claims. (Cl. 114—202)

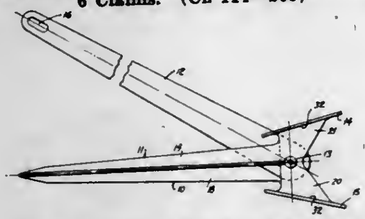
1. A ship's hatch and cover construction wherein cover sections may be slidably moved to be

stowed at one end of a hatch coaming having longitudinal and lateral sides upstanding from the ship's deck adjacent a fixed deck structure, comprising, in combination, a runway extending along each of the opposite longitudinal top edges of the coaming, a plurality of cover sections having inner and outer edges adapted to assume coplanar covering positions over the hatch opening of the coaming, a fore wheel and a trailing wheel on opposite said outer edges of each cover section adapted to roll along its related runway, each trailing wheel being spaced laterally from the edge of the cover a greater distance than the fore wheel, a pivot roller on opposite outer edges of each section and mounted on an axis above and between the axes of said fore and trailing wheels and also laterally spaced from the edge of the cover in vertical alignment with said trailing wheel, a flexible member connecting the pivot roller of each section with the pivot roller of the next section, whereby each section is joined with the next section, said flexible member hanging free when the sections are stowed and adapted to be pulled taut so as to transmit a pull from one section to the next during the return of the sec-



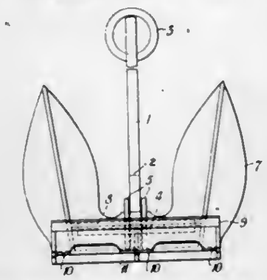
tions from their upended stowed positions to their aligned hatch closing positions, a pair of horizontal parallel stowing tracks projecting from the stowing end of the hatch coaming and supported by the coaming between the coaming and said fixed deck structure, said tracks constituting substantially a continuation of said runways and laterally spaced apart a distance to receive and support the pivot rollers and trailing wheels, downwardly inclined ramps at the ends of the runways adjacent and below the tracks to afford guide means for said fore wheels, means adjacent said tracks supporting said ramps, haulage means connected to the section most remote from the stowing position, whereby, when said section most remote from the stowing position is pulled all preceding sections move toward the stowing position, and the cover sections when moved on the tracks can freely pivot by their respective pivot rollers on the tracks and tilt downwardly at their leading edge between the tracks on their fore wheels to successively assume upended stowed positions, and a pivot pin on each outer side edge of said section most remote from the stowing position and forwardly of its fore wheels.

2,641,215
ANCHOR
Richard S. Danforth, Berkeley, Calif., assignor to Robert H. Eckhoff, Piedmont, Calif., as trustee
Application January 21, 1949, Serial No. 71,989
6 Claims. (Cl. 114—208)



1. In an anchor of the twin fluke type having a shank with a forward and an after end; a stock; a pair of flukes pivoted at the after end of the shank with the shank between the flukes; said flukes having faces thereon substantially simultaneously engaging the ground in operative position; the improvement comprising a crown including a pair of substantially flat crown plates, each crown plate being supported in a position wherein said crown plate is spaced from the plane of the flukes a distance, measured outwardly from the center line of the stock and at substantially 90° to the plane of the flukes, of between about 3% and about 16% of the shank length with each crown plate sloping upwardly and rearwardly away from the plane of the flukes and being supported to permit bottom to flow freely between the fluke and the underside of the crown plate, each crown plate having a width greater than about 5% of the shank length and a length of from about 10% to about 28% of the length of the shank and being positioned with between about 20% and about 50% of its area forward of the pivot.

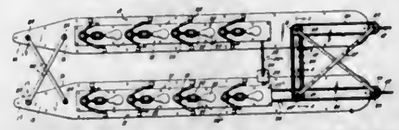
2,641,216
ANCHOR
Georges Eugéne Dial, Dittisham, England
Application October 31, 1949, Serial No. 124,604
In Great Britain November 4, 1948
1 Claim. (Cl. 114—208)



A ship's anchor comprising a shank having a slot extending longitudinally thereof and having side members of circular cross section, an anchor ring connecting member slidably engaging in said slot and adapted to be connected to an anchor chain, an anchor head comprising a substantially rectangular sheet metal member curved along the minor dimension thereof to provide a head member of arcuate cross section and substantially uniform thickness, a reinforcing member extending across and spanning the said head member and secured to the concave face thereof, a further reinforcing member extending longitudinally centrally of the width of the head member and secured to the convex face thereof, a pair of spaced diverging flukes of X-shape cross section secured to and extending from the concave face of said head member, each of said flukes being formed of sheet metal members secured together as by welding to provide the said X-shape cross section, a pin pivotally connecting one end of said shank to the concave face of said head member, portions of said head member extending on each side beyond the width of the flukes to form a plurality of spaced projections extending laterally in the direction of the flukes, a pair of elongated sheet metal members secured to the convex face of said head member and extending longitudinally in parallel spaced apart relation one on either side of the longitudinal axis thereof, and outwardly from the

said convex face in a direction away from the flukes, the outer edge of said elongated members being shaped to provide a plurality of projections spaced longitudinally of the head member, the said reinforcing member serving as a bearing for the pin connecting the shank to the anchor head, and the said projections being adapted to cooperate with said pivoted shank and slidable connecting member for effecting turning movement of the anchor relative to the sea floor.

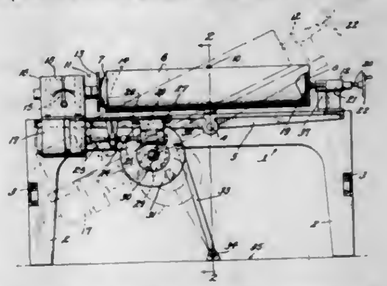
2,641,217
FOOT-POWERED WATERCRAFT
Fred Shelverton, Brooklyn, N. Y.
Application January 25, 1952, Serial No. 268,169
4 Claims. (Cl. 115—26)



1. A foot powered watercraft comprising a pair of adjacent hollow pontoons, pedal operated means on said pontoons for propelling each pontoon in a forward direction, pivotally mounted rudders on the rear ends of said pontoons, hand operated means on said pontoons for pivoting said rudders in unison in one direction or the other for steering the pontoons, said pontoons being rigidly joined together, each of said pontoons having an upwardly extended hollow projection, and seat structures mounted on said projections for seating a number of riders tandem fashion, said pedal operated means comprising shafts rotatively extended through said projections one for each of said seat structures, said shafts having their outer ends extended beyond the outer faces of said projections, pedal assemblies mounted on the outer ends of said shafts, propeller shafts extended through the rear ends of said pontoons, propellers mounted on the outer ends of said propeller shafts, and drive means interconnecting said first mentioned shafts and said propeller shafts, said means joining said pedal operated means comprising a transverse shaft extended between said projections, said transverse shaft having its ends extended rotatively into said projections, sprocket wheels on the ends of said shaft within said projections, complementary sprocket wheels on one of said first mentioned shafts of each of the pontoons, and sprocket chains engaged over said sprockets and said complementary sprockets.

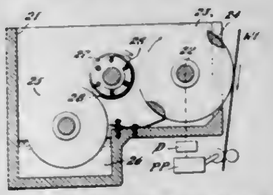
2,641,218
APPARATUS FOR APPLYING CEMENTITIOUS LININGS TO INNER WALL SURFACES OF LIQUID-HOLDING RECEPTACLES
Maurel G. Burwell, Columbus, Ohio, assignor to Century Tank Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application March 31, 1951, Serial No. 218,628
2 Claims. (Cl. 118—55)

1. In a machine for applying a cementitious lining to the interior surfaces of a cylindrical tank having end closures; a bed frame; a pair of rotary tank-supporting members carried in longitudinally spaced relation on said frame and engageable with the end closures of a tank for supporting the latter for rotation about its longitudinal axis; means carried by said frame and drivingly connected with one of said tank-supporting members for imparting high speed rotation to said one of said members and a tank supported between said members, whereby to centrifugally deposit a cementitious mix introduced within the tank uniformly over the inner surfaces thereof; shaft means journaled on said frame and disposed in adjacent, parallel, coextensive relation to the outer side surface of a tank supported between said members; means drivingly connected with said shaft means for imparting



axial rotation thereto during rotation of the tank; and a plurality of flailing devices carried at longitudinally spaced intervals along said shaft means and engageable with the outer side surfaces of the tank during rotation of said shaft means for imparting vibrational forces to the tank substantially throughout its entire length, whereby to compact a cementitious mix centrifugally deposited against the inner surfaces of the tank during high speed rotation of the latter.

2,641,219
APPARATUS FOR APPLYING ADHESIVE TO MOVING SHEETS
Reginald F. W. Tranter, Wellesley, Mass., assignor to Boston Herald-Traveler Corporation, Boston, Mass., a corporation of Massachusetts
Application May 15, 1952, Serial No. 287,851
4 Claims. (Cl. 118—212)



1. In a high-speed press, apparatus for applying adhesive to a web moving at press speed comprising an applicator roller rotating at press speed in contact with the web, said roller having a small well in its periphery, said well being of size to hold a drop of adhesive by molecular force against the centrifugal force of the roller, a transfer device for applying adhesive to said roller, means to supply adhesive to the transfer device, said transfer device comprising a rotor and an adhesive-carrying protuberance on the rotor with an effective radius substantially less than that of the roller, means for driving the roll at the same speed as the web and speed reducing means interconnecting said roller and rotor to drive the rotor at a slower speed than the roller and to synchronize movement of said protuberance and well so that said protuberance wipes a drop of adhesive onto the roller in the opposite direction of motion of the well to fill

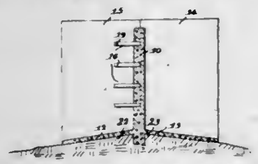
the well and remove excess adhesive from the periphery of the roller, whereby splattering of adhesive from said transfer device and applicator roller is prevented.

2,641,220
APPARATUS FOR POSITIVELY FEEDING PASTE AND OTHER ADHESIVES TO MOVING WORK
Herbert H. Weber, Sheboygan, and Allen O. Sohn, Plymouth, Wis., assignors to H. G. Weber and Company, Inc., Kiel, Wis., a corporation of Wisconsin
Application January 15, 1951, Serial No. 205,972
10 Claims. (Cl. 118—259)



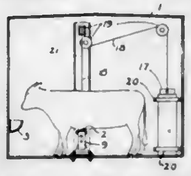
10. A device for applying flowable material, comprising: a nozzle body having a forwardly projecting elongated rib thereon; means defining an elongated collecting chamber closed at its ends and located at one side of said rib adjacent to the nozzle body; an elongated roller for transferring flowable material to a surface to which said material is to be applied; means mounting the roller adjacent to the front of the nozzle body and parallel to said rib; doctor means for said roller spaced from said rib and at the side thereof remote from said chamber, said doctor means cooperating with the rib, the nozzle body and with the roller to define an elongated feed chamber into which the material may be fed for application to the surface of the roller and transfer thereby to the surface to which the material is to be applied; said feed chamber being substantially coextensive in length with the roller and being closed at its ends, and the forward edge of said rib being spaced from the adjacent surface of the roller, but the feed chamber being otherwise virtually closed by the roller and doctor means so that the rib provides a weir between the two chambers across which excess material in the feed chamber may escape therefrom into said collecting chamber; duct means opening to the feed chamber for feeding the flowable material thereto; and means for rotating the roller so as to pass the surface thereof transversely across the feed chamber in the direction from the weir toward the doctor means.

2,641,221
FISH STOP FOR DAMS
Walter A. Sibinski and Victor H. Sibinski, Weyerhaeuser, Wis.
Application September 22, 1950, Serial No. 186,266
1 Claim. (Cl. 119—3)



A fish stop for dams comprising a vertically extending dam body and means for preventing fish from crossing said body, said means including horizontally extending rows of outwardly projecting pins affixed to the front side of said body, and a flexible cable anchored at its ends and extending through the outer portions of the uppermost row of said pins.

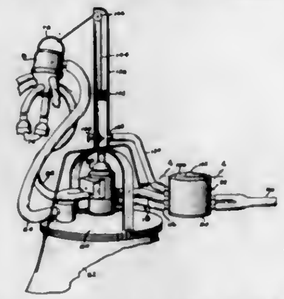
2,641,222
CATTLE SHIPPER'S STANCHION
Joseph Arthur Ne Casek, Chicago, Ill.
Application March 30, 1951, Serial No. 218,433
2 Claims. (Cl. 119—13)



1. In combination with a cattle-carrying-vehicle, a retractable horizontal beam type of stanchion device for maintaining cattle in alignment and in an upright position during transit in the vehicle, and comprising in combination, a movable and elongated horizontally positioned beam extending within said vehicle and adapted for being raised and lowered relative to the floor of the latter, a plurality of spaced beam supports pivotally connecting said beam with the floor of said vehicle, each of said supports having pivot means connecting it with the floor of said vehicle and to the under side of said beam at right angles to the latter, whereby said beam moves in an arc which is in a vertical plane as it is raised and retracted with respect to the floor of said vehicle, counterweight means connecting with said movable beam and substantially balancing the weight thereof whereby said beam may be easily raised and lowered, an automatically placed locking bar connecting with at least one end of said horizontal beam, a finger-shaped member hingedly mounted on said vehicle at an elevation substantially equal to the height of said beam in its raised position and adjacent to the end of the beam, a bent end of said finger-shaped member positioned and arranged to contact and hold said locking bar, guide means positioned adjacent to said locking bar whereby to vertically guide the latter in a position which is above the end of said horizontal beam when said beam is in its raised position, said beam having a slot in the end thereof adapted to receive said locking bar, and said hinged finger member operative to move and release said vertically guided locking bar upon being pushed by the end of said horizontal beam, whereby the locking bar falls into said slot at the end of said horizontal beam and holds the latter in a fixed elevated position as said beam is raised and supported on said plurality of spaced supporting posts.

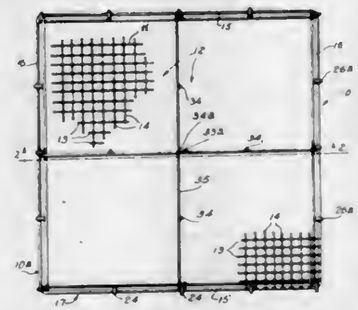
2,641,223
CONTROL MECHANISM FOR MILKING SYSTEMS
Louis Van der Plate, Paterson, N. J.
Application June 7, 1951, Serial No. 230,354
3 Claims. (Cl. 119—14.14)

1. In a milking system having a pulsator, teat cups, a vacuum line connected to the teat cups and to the pulsator, and means connected to the vacuum line for creating a vacuum therein, means for interrupting the vacuum to the pulsator and to the teat cups at the expiration of a predetermined period of time comprising a time actuated valve connected in the vacuum line between the pulsator and the vacuum creating means, a cylinder mounted adjacent said valve, a piston working within the cylinder, means



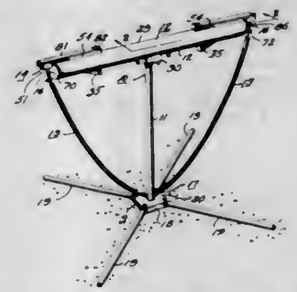
establishing communication between the cylinder behind the piston and the valve for moving said piston when the valve interrupts the vacuum through the pulsator, and means connected to the piston and to the teat cups for supporting said teat cups when the vacuum is interrupted.

2,641,224
AUXILIARY FLOOR FOR POULTRY HOUSES
Walter T. Seidel and Robert A. Seidel, Baltimore, Md.
Application November 22, 1950, Serial No. 197,124
1 Claim. (Cl. 119—21)



An auxiliary floor of the knock-down type for poultry houses comprising a rectangular frame, a fabricated wire screen having the edges thereof secured to corresponding sides of the frame by welding, a wire frame swingably mounted on each side of the rectangular frame and forming supports for elevating the screen above the floor of a poultry house, each swingable frame including spaced vertical brace rods and a horizontal rod forming the bottom of a swingable frame, the vertical rods having the lower ends secured to the horizontal rod and the upper ends hinged to a side of the rectangular frame, a hook on one end of each horizontal rod of a swingable frame, the hooks on said frame receiving the vertical rods at the end of the swingable frames forming right angles with each other, and intersecting wire frames providing central supports for the fabricated wire screen, and equipped with hooks receiving intermediate vertical rods on the swingably mounted frames.

2,641,225
ANIMAL RUBBING AND OILING STATION
William M. Kirk, Amarillo, Tex., assignor to Kirk Manufacturing Co., Amarillo, Tex., a corporation of Texas
Application December 27, 1951, Serial No. 263,571
7 Claims. (Cl. 119—157)



1. In an animal rubbing and oiling station of the class in which an upstanding rigid support, including an oil supply reservoir, supports a movable, elongated rubbing element disposed to extend downwardly from the upper portion of said support; the improvement which comprises: an abutment having a striking face above and confronting the oil level in the reservoir, a paddle member, a first means carried by said support, movably mounting said paddle member so that it will be, in a first position, submerged in the oil in the reservoir and gather oil thereon, and will, in a second position, out of the oil, impinge against the said face of the abutment and thereby splash oil laterally from between the said face of the abutment and the paddle member, second means receiving oil thus splashed by impingement of the paddle with the abutment member and conducting same to the upper end portion of the rubbing element, and third means operatively connecting the rubbing element with said paddle member actuating the latter from its first position to its second position upon downward movement of the upper portion of said rubbing element, incident to an animal rubbing along said elongated rubbing element.

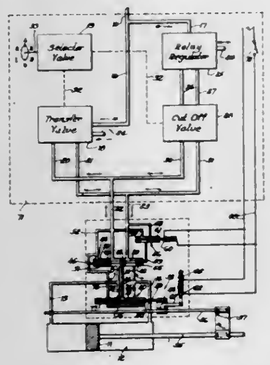
2,641,226
WRITING IMPLEMENT WITH YIELDABLY SUPPORTED SCRIBING ELEMENT
Clyde R. Patterson, Riverside, Calif.
Application March 24, 1950, Serial No. 151,690
5 Claims. (Cl. 120—8)



1. The combination with a scribing device including an elongated rigid reservoir having a writing point at one of its ends, of an elongated hollow barrel having an open forward end and an end wall at its opposite, rear end, an elongated guide secured in the open end of the barrel having a tubular portion disposed within the barrel and spaced from the barrel wall, said scribing device extending slidably through the guide and projecting beyond the ends thereof, the writing point of the scribing device extending beyond and being spaced from a forward end of the guide and the forward end of the barrel, and spring follower means mounted in the barrel between

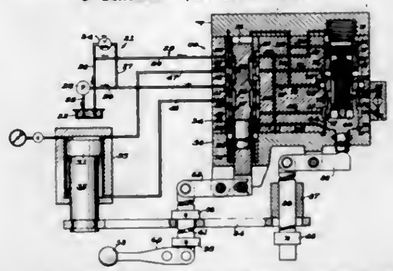
its rear end wall and the rear end of the scribing device and bearing against said scribing device for yieldably urging it forwardly of the guide for resiliently supporting the writing point thereof relatively to the barrel and guide when in use.

2,641,227
CREEP PREVENTION CONTROL FOR HYDRAULIC POWER UNITS
Stanley A. Jacques, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application November 13, 1950, Serial No. 195,378
9 Claims. (Cl. 121—41)



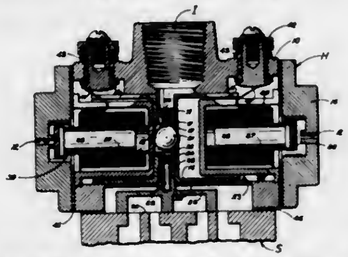
1. A hydraulic system comprising a reversible power unit provided with an external output member movable in opposite directions by delivery of hydraulic power fluid to one or the other of two power unit inputs, a pair of control lines respectively connected to said inputs, a regulator device for selectively delivering power fluid to one or the other of said lines, a creep-controlling auxiliary hydraulic supply system including an input supply line, a pair of output lines connected respectively with said power unit inputs and an auxiliary regulator device having outputs respectively connected with said output lines and a control element movable in opposite directions from a neutral position blocking communication between said input supply line and both said output lines to positions wherein respectively it connects the different ones of said output lines with said input supply line, a transfer valve selectively actuable between a normal-operation condition connecting said control lines with said power unit inputs and blocking said auxiliary system input supply line from communication with said control lines, and a creep-control condition blocking communication between said control lines and power unit inputs and connecting said input supply line with a preselected one of said control lines, and a clutching device connected with said auxiliary regulator device control element and selectively actuable between a disengaged condition and an engaging condition mechanically connecting said control element to said power unit output element for movement of the former with the latter and in a direction to supply fluid to the power unit input, in a sense to move said output element opposite to that in which the output element moves in, so actuating said control element.

2,641,228
CONTROL VALVE MECHANISM FOR HYDRAULIC MOTORS
Cecil E. Adams, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio
Application May 26, 1950, Serial No. 164,400
9 Claims. (Cl. 121—46.5)



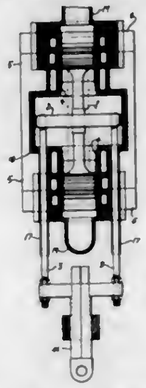
1. In a hydraulic system, a source of fluid pressure having a reservoir; a reversible fluid motor; a control valve mechanism between said pressure source and said motor, said mechanism having a body; a four-way valve in said body, said four-way valve having an inlet communicating with said pressure source, forward and reverse motor ports communicating with said motor, and first and second outlet ports, the first of said outlet ports communicating directly with said reservoir; a spool in said four-way valve movable to different positions to connect certain sets of said ports; passage means in said body extending between the outlet ports and said forward motor port; first and second relatively movable valve elements in said passage means normally disposed to prevent fluid flow through said passage means, the first of said valve elements being responsive to fluid pressure in the second outlet port when the second of said elements is normally positioned, to provide for fluid flow from said second outlet port to said forward motor port; and means operated by said reversible fluid motor for moving said second valve element from its normal position to a second position, the first valve element then being responsive to fluid pressure in the second outlet port to provide for fluid flow from said forward motor port to said first outlet port.

2,641,229
FLUID-POWERED ENGINE
Lewis F. R. Bellows, Detroit, Mich., assignor to The Bellows Company, Akron, Ohio, a corporation of Ohio
Application July 23, 1949, Serial No. 106,457
14 Claims. (Cl. 121—148)



1. An engine comprising a housing having an inlet opening and exhaust vents, means for opening and closing said vents, a piston in said housing having a head and skirts projecting in opposite directions from the head, said piston having a passage open to said inlet opening and having outlet openings from the passage communicating with said vents, and means movable with and relative to the head and disposed within said passage and supported by the piston for closing one of said outlet openings under predetermined fluid pressure circumstances and closing the other said opening under other fluid pressure circumstances.

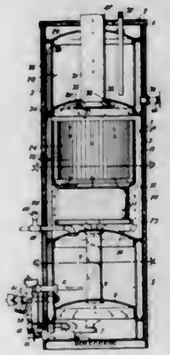
2,641,230
OUTSIDE VALVE DRIVE FOR PISTON VALVE AND SLEEVE VALVE STEAM ENGINES
Harry M. Arnold, Denver, Colo.
Application July 1, 1949, Serial No. 102,557
4 Claims. (Cl. 121—165)



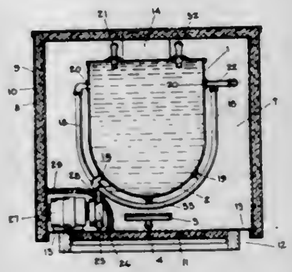
1. In a piston valve or sleeve valve engine of the reciprocating piston type having a cylinder block and piston valve mounted therein, valve driving means comprising a closed valve drive chamber in the block, said piston having a hub located in the chamber, a yoke connected to said valve hub, a pair of drive rods parallel to the axis of the piston valve, a pair of guides located outside of the valve drive chamber, said drive rods being slidably mounted in said guides and connected within the said valve drive chamber to said yoke, and reciprocated means connected to the free ends of the drive rods imparting reciprocating movement to said rods, yoke and piston valve.

2,641,231
DOUBLE TANK WATER HEATER AND INCINERATOR
Michael J. Tierney, Rochester, N. Y.
Substituted for abandoned application Serial No. 256,547, February 15, 1939. This application April 21, 1952, Serial No. 283,295
3 Claims. (Cl. 122—2)

1. A double tank water heater and incinerator including a casing, a lower storage tank located within the casing for the primary heating of water, a secondary heating tank located within the casing above the primary storage tank and spaced therefrom to provide a comparatively large intervening space between the tanks, an ash pit located within the intervening space and arranged above the primary storage tank and spaced from the casing to provide passages for causing burnt gases to pass across the bottom of the ash pit and up the sides thereof and over the top of the same, an incinerator chamber arranged over the ash pit in spaced relation with the same and of a diameter substantially equal to the interior of the casing and having an open grate for causing the burnt gases to pass through the incinerator chamber for drying refuse, a burner located beneath the primary storage tank, and a flue of comparatively small diameter extending upwardly through the primary storage tank from the bottom to the top thereof for passing burnt gases from the burner through the storage tank and for causing the burnt gases to pass around the ash pit and through the incinerator chamber and expand before contacting with the secondary tank, the expansion of the burnt gases preventing condensation and precipitation of moisture and extending the heating range of burnt gases and enabling an increased amount of heat to be extracted from burnt gases.



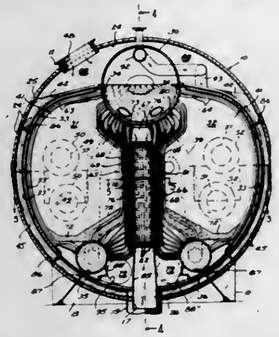
2,641,232
HEATING UNIT
Leslie L. Goosman, Pagosa Springs, Colo.
Application June 12, 1950, Serial No. 167,691
3 Claims. (Cl. 122—18)



1. A heating device comprising a combustion chamber, a heating tank completely enclosed in the combustion chamber, said tank having a substantially semi-spheroidal shaped bottom, a conduit from the tank to a source of water, water heating conduits externally of and spaced from said tank and extending arcuately across the bottom of the tank from the lower end at one side thereof to the upper portion of said tank

on the other side thereof in close proximity thereto, and a burner below the heating tank and the conduits.

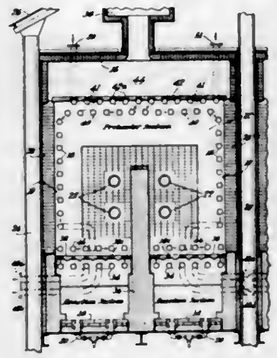
2,641,233
VAPOR GENERATOR
Henry H. Hemenway, St. Albans, and John F. Thunstrom, Bronx, N. Y., assignors to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application February 19, 1947, Serial No. 729,630
12 Claims. (Cl. 122—240)



1. A natural circulation vapor generator comprising a setting having laterally spaced furnaces therein, means for separately firing each furnace, a vapor generating tube group in the space between said furnaces, the tube group comprising a plurality of spaced tubes arranged in laterally adjacent tube banks spaced from one another to provide a passage therebetween, a superheater in the passage, an upper vapor and liquid drum in the setting communicating with the upper ends of the tubes of said group, spaced lower drums in the setting, said drums respectively being in communication with the lower ends of the tubes of said tube banks, baffle means separating the passage from each of said banks, other baffle means associated with each of said banks and positioned in spaced relationship with said first-mentioned baffle, said baffle and other baffle thereby forming a gas outlet flow path through the banks, the furnaces each having a gas opening in communication with the gas outlet flow path of a tube bank and with the passage between said banks, the passage between the banks and the gas outlet flow paths having seperate gas outlets located to respectively receive gases after said gases have passed through said passage and through said flow paths, and means for separately controlling the flow of gases through said passage and the flow of gases through said gas outlet flow paths.

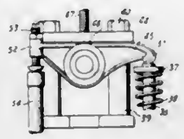
2,641,234
HEATER
Valentine Mekler, Jackson Heights, Marcel J. P. Bogart, Mamaroneck, Otto C. Schauble, Mount Kisco, and Edward H. Palchik, Forest Hills, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application January 23, 1948, Serial No. 3,848
5 Claims. (Cl. 122—356)

1. A fluid heater comprising a housing, vertically spaced, horizontally extending partitions dividing the interior of said housing into superposed chambers including an upper chamber, an intermediate chamber and a lower chamber, each of said partitions forming the roof of the chamber therebelow and the floor of the chamber thereabove and having gas exit apertures distributed over the area thereof, burner means to conduct combustion in said lower chamber, burner means to conduct combustion in said intermediate chamber, and rows of fluid heating roof tubes within the lower and intermediate chambers respectively, beneath the respective partitions and distributed across the area thereof, said tubes being exposed for radiant heating by



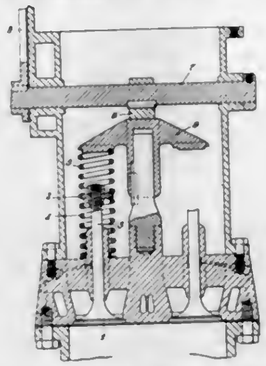
said combustion within the respective chambers and having inlet and outlet means and being connected for flow of a fluid to be heated first through the tubes of one of the chambers and subsequently through the tubes of the other chamber, said gas exit apertures enabling diffused flow of combustion gas from the lower chamber through the other chambers in succession said partitions being formed of rows of tiles, said gas exit apertures being formed by spaces between the tiles, and the tiles of the partition which forms the roof of the intermediate chamber being supported on the adjacent roof tubes.

2,641,235
ENGINE ROCKER ARM MECHANISM
John C. Sionneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware
Original application March 14, 1946, Serial No. 654,427, now Patent No. 2,590,134, dated March 25, 1952. Divided and this application March 22, 1948, Serial No. 16,183
8 Claims. (Cl. 123—90)



1. In combination, an engine head block, having valve seats, valves engaging said seats having stems, a rocker shaft having an oil space, and rocker arms on the shaft each having oil jet means located to direct a stream of oil onto one of the valve stems, the oil space of the shaft having outlets periodically registering with the jet means.

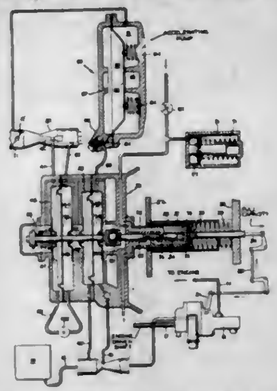
2,641,236
MEANS FOR ACTUATING VALVES AND OTHER RECIPROCATING PARTS
Wilfred Percival Mansfield, Slough, England, assignor to Sir W. G. Armstrong Whitworth & Company (Engineers) Limited, London, England
Application December 11, 1945, Serial No. 634,347
In Great Britain October 11, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires October 11, 1964
13 Claims. (Cl. 123—90)



9. A valve operating system controlling the flow of gases under pressure in a ported cylinder including a valve having a head within the cylinder, influenced by the pressure of gases therewithin and cooperable with the port thereof in a travel between positions at which the port is fully opened and closed, a resilient oscillatory assembly of which the valve forms a part including means providing a position of equilibrium of the assembly in which the valve is intermediate its fully opened and closed position, the port having a recess at its mouth constituting a masking cylinder, the head of said valve having such dimensions parallel with the axis of the port as to cooperate with said masking cylinder and in closing the valve constituting a piston movable within the masking cylinder, and cam means assisted by the pressure of the gases within the cylinder periodically supplying a small amount of energy to compensate for damping, said cam means also moving the valve at least in the first cycle of balanced oscillation at least to one end of the required valve travel and releasing the same.

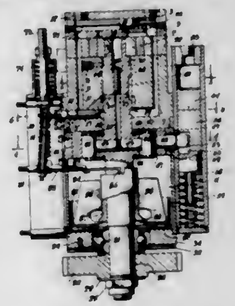
2,641,237
ENGINE FUEL CONTROL
Desire J. Deschamps, Rutherford, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Continuation of application Serial No. 348,925, July 31, 1940. This application June 11, 1946, Serial No. 675,981
10 Claims. (Cl. 123—139)

1. In a system for controlling the mixture of air and fuel for delivery to an engine having an air supply conduit, a throttle therein adapted to be adjustably positioned, and fuel supply means having an output proportional to the engine speed and whose output at any given speed is variable, a member movable to control the output of said fuel supply means, an automatic fuel-air flow responsive ratio control mechanism to actuate said member to regulate automatically the fuel-air ratio at all operating positions of said throttle and at different engine speeds, said control mechanism including means responsive to the fuel input



to said supply means, and accelerating pump means operated by the throttle to affect said fuel input responsive means so as to increase the fuel output from the supply means to said engine.

2,641,238
FUEL PUMP
Vernon D. Roosa, Ardsley, N. Y.
Application August 11, 1947, Serial No. 767,939
27 Claims. (Cl. 123—140)



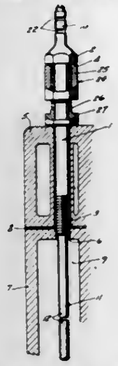
1. In a fuel pump adapted to be used for internal combustion engines and the like, the combination of a casing having fuel discharge ports, a rotatable fuel distributing member disposed in said casing and having a fuel discharge opening for communication with said discharge ports in sequence as the distributing member is rotated, pumping means including a chamber in said distributing member communicating with the discharge opening and a piston mounted for reciprocal movement in said chamber, a normally stationary cam disposed about the axis of rotation of the distributing member and supported by the casing for intermittently actuating the plunger in timed relationship with the rotation of the distributing member to cause injections of fuel while the opening is in communication with a fuel discharge port, and means for adjustably moving the cam about the axis of the distributing member to adjust the timing of the pumping means relative to the distributing member.

2,641,239

ELECTRICAL HEAD BOLT REPLACEMENT HEATER FOR LIQUID COOLED INTERNAL-COMBUSTION ENGINES

George H. Grinde and Louis L. Wolf, Minneapolis, Minn., assignors to Phillips Manufacturing Company, Inc., Minneapolis, Minn., a corporation of Minnesota

Application June 14, 1951, Serial No. 231,508
3 Claims. (Cl. 123—142.5)



1. A cylinder head bolt replacement type of heater for internal combustion engines, said heater comprising a tubular head bolt having an externally threaded portion for engagement with the internal screw threads of an engine cylinder block below the cylinder head thereof and having a stop shoulder adjacent one end which will be spaced above the top of the engine cylinder head when the said externally screw-threaded portion of the tubular bolt is operatively engaged with the said internal threads of the cylinder block, an electrical liquid submersion heater extending longitudinally beyond the threaded portion of the bolt for extension in a liquid coolant cavity of the cylinder block when the said external threads of the tubular bolt are engaged with the internal threads of the cylinder block, internally contained power leads extending from the electrical heating element through the shoulder equipped end portion of the tubular bolt, and a longitudinally extensible and contractible tubular spacer loose on said tubular bolt adjacent said stop shoulder thereof and adapted to be longitudinally expanded between the said bolt stop shoulder and the top of the cylinder head to draw the cylinder head toward the cylinder block after the threads of the bolt have been engaged with the said threads of the block, said expansible and contractible tubular spacer comprising cooperating externally and internally threaded sleeves, one for engagement with the shoulder of the bolt and another for engagement with the cylinder head, said expansible tubular spacer allowing tightening of the tubular bolt without subjecting the same to torque strain.

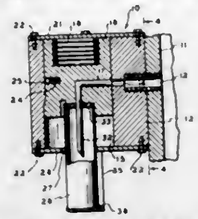
2,641,240

PRIMING DEVICE FOR STARTING ENGINES

Irving Levine, Jersey City, N. J.

Application March 20, 1952, Serial No. 277,629
4 Claims. (Cl. 123—187.5)

1. A priming device for starting an engine comprising in combination a body part, an outlet port, means for connecting said outlet port to the combustion space of the engine, a piston passageway within said body part connected to said outlet port, a piston reciprocably and non-rotatably movable within said piston passageway, means at each end of said passageway limiting the movement of said reciprocable piston, means yieldably resisting the approach of said piston to one end of said passageway, a fluid port extending through said piston, one end of said fluid port being aligned with said body outlet port when said piston is at said end of its passage against said yieldably resisting means, means urging said piston against the piston passageway side through which the outlet port extends, a vial penetrating hollow needle connected to the other end of said piston fluid port at the end of said



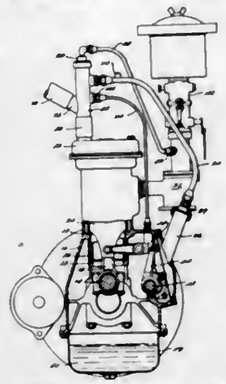
piston opposite from the yieldably resisted end, a vial receiving opening through the adjacent piston movement limiting means, an air-lock releasing groove in one side of said vial end receiving depression in said piston end, and a vial supporting stirrup pivoted to said body part over said vial receiving end, whereby a sealed vial of priming fluid may be pressed over said needle end to move said piston against its opposite end and align its fluid port with said port outlet, and then be held in such position by pivoting said supporting stirrup thereunder, whereby the priming fluid in the vial may be drawn therefrom into the engine as the engine is started.

2,641,241

OIL-CONTROL MEANS FOR SLIDE VALVE INTERNAL-COMBUSTION ENGINES

Ralph L. Skinner, Detroit, Mich.

Application April 17, 1948, Serial No. 21,643
5 Claims. (Cl. 123—196)



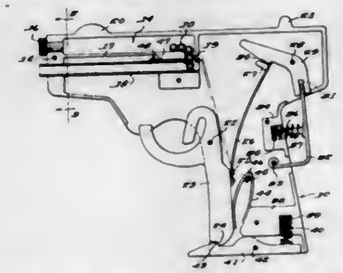
1. An internal-combustion engine having a sealed crankcase, cylinders mounted on said crankcase and providing combustion chambers having inlet and exhaust ports, each cylinder comprising concentric cylinder members providing spaced inner and outer walls, a fuel intake system which supplies fuel to the combustion chambers of the engine and is normally under vacuum during operation of the engine, and a pair of substantially semicylindrical slide valves for each combustion chamber mounted for reciprocation between said inner and outer walls and controlling the inlet and exhaust ports of the combustion chambers, the two valves in each pair extending longitudinally of the cylinder and downwardly into the crankcase and being separated at the longitudinal edges thereof so that the edges of the valves are exposed to conditions in the crankcase, and means interconnecting said fuel intake system and the crankcase so that substantially the same vacuum is maintained in the crankcase and on the surfaces of the valves as is maintained in the fuel intake system.

2,641,242

TOY PISTOL

Robert B. Dickson, Cleveland, Ohio

Application October 18, 1950, Serial No. 190,716
2 Claims. (Cl. 124—27)



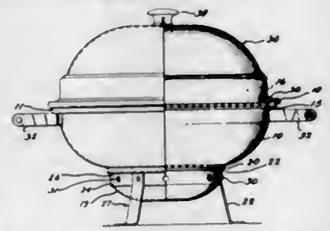
1. In a toy pistol, a hollow body including a pair of sections connected together, there being a chamber in said body for holding a plurality of pellets, a hollow barrel arranged below said chamber and adapted to receive pellets from the latter, a cocking lever pivotally arranged between said sections, a spring member having one end connected to said cocking lever, a firing pin mounted on the other end of said spring member, and manually operable means for releasing said spring member, said means comprising a locking dog pivotally connected to said body, and a trigger pivotally connected to said body for causing pivotal movement of said locking dog, there being a recess in said locking dog for receiving the upper end of said trigger.

2,641,243

PORTABLE COOKING VESSEL

Norman L. Goss, Pasadena, Calif.

Application November 12, 1949, Serial No. 126,893
7 Claims. (Cl. 126—25)



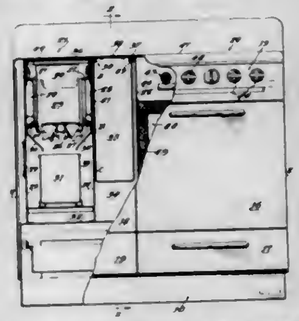
6. In a portable cooking vessel, the combination comprising an upper compartment, a lower and smaller compartment disposed beneath and opening into the larger upper compartment, a plurality of vents in the wall of the second compartment opening to the atmosphere, a first grill disposed across the vessel at the junction of the compartments, a second grill larger than the first grill disposed in the upper compartment above the first grill, and a removable cover resting on the second grill with its lower edge spaced inwardly from the wall of the first compartment to form an annular vent between the cover and the compartment.

2,641,244

COMBINATION RANGE

Michael J. Maier, Beaver Dam, Wis., assignor to Malleable Iron Range Company, Beaver Dam, Wis., a corporation of Wisconsin

Application December 6, 1948, Serial No. 63,781
3 Claims. (Cl. 126—34)



1. In a range, a casing, a water reservoir disposed in said casing and having a wall disposed in a substantially vertical plane, a firebox disposed in said casing alongside of the upper portion of said reservoir wall, and having a portion spaced therefrom in heat transmitting relationship with respect thereto whereby said upper wall portion constitutes a heating plate for heating water in said reservoir, a vertically disposed partition extending between said fire box and said reservoir and means for maintaining the lower part of said wall at a lower temperature than the temperature of said heating plate whereby the equilibrium temperature of the water in said reservoir will decrease as the water level decreases, said casing serving to confine the major portion of the heat loss from the reservoir to the heat loss taking place at the lower part of said vertical reservoir wall.

2,641,245

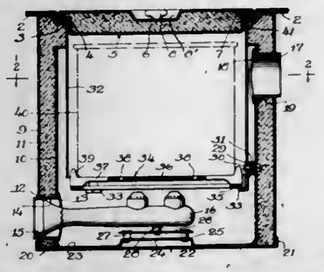
HEATING UNIT

John E. Chambers and Thomas Esta Phares, Shelbyville, Ind., assignors to Chambers Corporation, a corporation of Indiana

Application October 18, 1948, Serial No. 55,094
12 Claims. (Cl. 126—273)

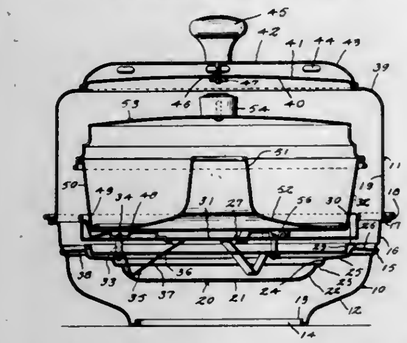
1. A heating unit comprising a pair of concentric imperforate hulls and a pair of flues extending through said hulls adjacent the top edge of said heating unit, an inner hull depending from the top of said heating unit inside said two first mentioned hulls, said inner hull being shorter than said two first mentioned hulls and having an imperforate cylindrical wall cooperating with the innermost of said first mentioned pair of hulls to form an insulating space closed at the top and open at the bottom, said inner hull defin-

ing a space in which a cooking vessel is adapted to be placed, and an insulated removable cover



flush with the top of said heating unit cooperating with said inner hull to close the top of said space in which the cooking vessel is placed.

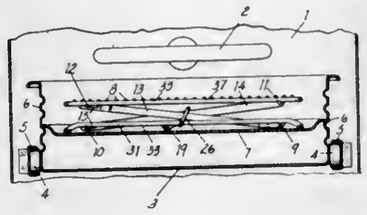
2,641,246
COOKING DEVICE
Luis Samuel Guthof, Mexico City, Mexico
Application May 20, 1952, Serial No. 288,835
3 Claims. (Cl. 126—275)



1. A cooking device comprising a base structure adapted to be mounted over a burner, and a cover engageable on said base structure, said base structure comprising an upwardly flared side wall having an outwardly offset bead below the upper end thereof, an outwardly offset rim carried by the upper end of the side wall, a lower baffle fixed in said side wall, said lower baffle including a downwardly offset central portion with a circular flange seating in said bead, said flange having a series of openings therein, and removable baffle means seating in said central portion of said lower baffle, said removable baffle means comprising a pair of spaced apart plates, spacer means between said plates, and V-shaped legs extending below said plates and engaging in said lower baffle.

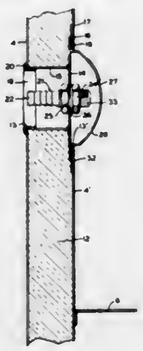
2,641,247
ADJUSTABLE OVEN OR BROILER RACK
Lowell B. Genebach, Battle Creek, Mich., assignor to United Steel & Wire Company, Battle Creek, Mich.
Application July 7, 1950, Serial No. 172,541
8 Claims. (Cl. 126—337)

7. In an oven or broiler rack, the combination of a base, a grid disposed above said base, spaced pairs of crossed links pivotally connected at one end to said base and grid and having pivoted and sliding connection thereto at their other ends, an adjusting rod pivotally connecting said pairs of crossed links and rotatably supported thereby, and adjusting racks having teeth, said racks being disposed in spaced parallel relation



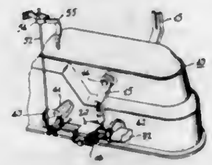
to each other and pivotally mounted on said base, said adjusting rod having teeth coacting with the teeth of said adjusting racks said racks being provided with means disposed in engaging relation with said adjusting rod on the side thereof opposite from the teeth of the racks for retaining the teeth of the racks in meshing relation with the teeth of the adjusting rod.

2,641,248
PORTABLE BABY INCUBATOR
Gordon Armstrong, Cleveland, Ohio, assignor to The Gordon Armstrong Company, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 12, 1950, Serial No. 173,467
8 Claims. (Cl. 128—1)



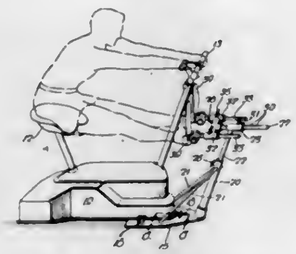
1. A baby incubator comprising the combination of a box-like housing having a bottom wall and surrounding top and bottom side walls providing a baby treating compartment, a closure lid fitted to one of the surrounding walls, an oxygen inlet nozzle leading through an opening in one of the walls, a plate spanning the opening and having the nozzle mounted thereon, and baffle means for controlling the radial direction for the discharge of the oxygen from said inlet nozzle to the treating chamber, said baffle being revolvably mounted on the wall of the incubator and provided with an eccentrically disposed perforation for selectively directing the oxygen in any radial direction.

2,641,249
ADJUSTABLE FOOT SUPPORT DEVICE FOR EXERCISING MACHINES
Emory W. Brockman, Hartsville, Pa., assignor to Healthomatic Corporation, Bala-Cynwyd, Pa., a corporation of Pennsylvania
Application January 17, 1951, Serial No. 206,450
12 Claims. (Cl. 128—25)



1. An attachment for exercising machines having a seat and rotationally driven pedal supports; comprising a body member for attachment to each pedal support, heel and toe support sections each slidably mounted in the body member for adjustable positioning with respect to each other and said body member, and latch means to secure said heel and toe sections in the respective positions to which adjusted.

2,641,250
ATTACHMENT FOR EXERCISING MACHINES
Emory W. Brockman, Hartsville, Pa., assignor to Healthomatic Corporation, Bala-Cynwyd, Pa., a corporation of Pennsylvania
Application December 27, 1950, Serial No. 202,949
11 Claims. (Cl. 128—25)



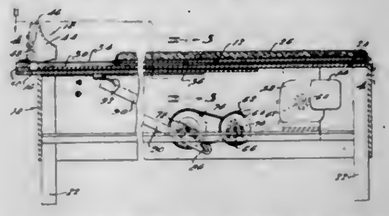
11. An attachment for exercising machines comprising a base to underlie the machine and having clamping means to secure the base thereto, an upstanding tubular stanchion on said base inclined outwardly thereof, a support rod adjustably mounted in said stanchion, means to secure the support rod in a preselected position relative to the stanchion, a horizontal sleeve at the upper end of the rod support, a cross-head member having a support rod adjustably mounted in said sleeve, means to secure the cross-head in a preselected position with respect to said sleeve, other sleeves at the opposite ends of said cross-head, shaft members adjustably mounted in said other sleeves, means to secure said shaft members in preselected position with respect to said other sleeves, foot supports pivotally connected to said shaft members for rotation about a horizontal axis with respect thereto between fixed limit positions, and spring means normally biasing said foot supports to one of said limit positions.

2,641,251
ATTACHMENT FOR EXERCISING MACHINES
Emory W. Brockman, Hartsville, Pa., assignor to Healthomatic Corporation, Bala-Cynwyd, Pa., a corporation of Pennsylvania
Application December 27, 1950, Serial No. 202,950
11 Claims. (Cl. 128—25)



1. An attachment for exercising machines having a seat and a mounting means oscillatable relative to the seat; comprising a base, a rod support, means on said base pivotally mounting said rod support for oscillatory movement, a handle member adjustably carried by said rod support, and means connected at one end to said rod support and having at its other end a mounting for connection to the handle mount of the machine to provide a driving connection from the latter to the rod support.

2,641,252
THERAPEUTIC TABLE
Albert Hemming, Ortonville, Mich.
Application July 11, 1951, Serial No. 236,219
6 Claims. (Cl. 128—33)

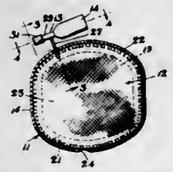


1. A therapeutic device comprising a base support, a horizontal table mounted for free sliding movement on the support and adapted to carry a patient in supine position thereon, a reciprocable actuator parallel to and below said table adapted for attachment at a point spaced longitudinally from one end of the table to a part of a patient supported on said table, and means for reciprocally driving said actuator.

2,641,253
ANESTHESIA APPARATUS
Arthur E. Engelder, Morenci, Ariz.
Application August 7, 1951, Serial No. 240,657
26 Claims. (Cl. 128—188)

1. In an open-drop type ether mask, a mask proper including a porous absorbent surface, a pressurized oxygen container mounted on and portably carried by said mask proper and connected interiorly by a fluid-conducting passage to

a point opening interiorly of said porous absorbent surface, and a manually controlled valve to



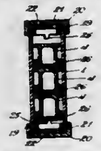
control the flow of oxygen from said container and through said passage.

2,641,254
APPLICATOR
Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.
Application October 18, 1948, Serial No. 55,135
8 Claims. (Cl. 128—206)



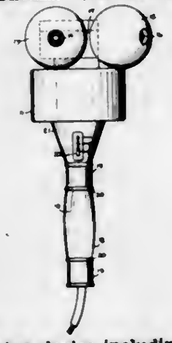
1. In an applicator of the character described, the combination of: an elongated body provided with an axially extending chamber having inlet and outlet ends, said body being provided with an outlet end having an air outlet passage which communicates with said outlet end of said chamber, and being provided with an air inlet passage which communicates with the exterior of said body at a first point intermediate said outlet end of said body and the opposite end thereof and which communicates with said inlet end of said chamber at a second point intermediate said first point and said opposite end of said body; a medicament carrying and dispensing capsule disposed in said chamber and movable from said inlet end of said chamber toward said outlet end thereof under the influence of an air stream flowing through said chamber from said inlet end of said chamber toward said outlet end thereof; means providing an air passage past said capsule to provide communication between said inlet and outlet ends of said chamber; and stop means adjacent said outlet end of said chamber for impingement by said capsule to dislodge medicament from said capsule into the air stream.

2,641,255
INHALER
Leonard L. Leonaitis, North Chicago, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application March 31, 1949, Serial No. 84,530
4 Claims. (Cl. 128—206)



1. An inhaling device comprising, in combination: a cylindrical tube; duplicate removable closures for the ends of said tube; each closure comprising an internal plug, and an external cap; each of said plugs having an eccentric passage therethrough; each of said caps having an eccentric passage therethrough, adapted to move into and out of register with the passages of said plugs to permit passage of a stream of air through said tube; said passages being of substantially smaller diameter than said tube; a container for powdered medicament in said tube; said container having a foraminated end for dispensing the powdered contents; and means within said tube to stop the movement of said container abruptly, thereby to release a portion of the medicament therefrom into the stream of air.

2,641,256
MASSAGING DEVICE
Frieda W. Schmidt, Tarrytown, N. Y.
Application June 21, 1951, Serial No. 232,749
3 Claims. (Cl. 128—57)



1. A massaging device including a motor casing and motor therein, a gear box carried by the motor casing, a fixed shaft projecting from the gear box, a roller rotatable on said shaft, a rotatable shaft projecting from the gear box at an acute angle to the fixed shaft, a roller fast to the rotatable shaft and spaced about one-half inch from the rotatable roller, gearing by which the motor turns the rotatable shaft, and a handle for lifting the device and projecting from the motor casing.

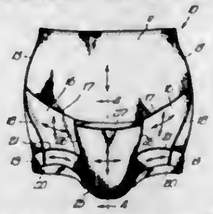
2,641,257
UNDERGARMENT
George E. Rutledge, Chicago, Ill., assignor to Munsingwear, Inc., a corporation of Delaware
Application July 7, 1949, Serial No. 103,436
10 Claims. (Cl. 128—159)



1. An undergarment of the class of shorts comprising a tubular garment body adapted to embrace the abdominal, side, back and crotch areas of the body, said garment body including a circumferentially substantially non-stretchable and longitudinally stretchable front girdle portion adapted to engage the main abdominal region

and terminating in a lower edge adapted to be located in upwardly spaced relation to the crotch, and a circumferentially and longitudinally readily stretchable lower front portion incorporating elastic yarn adapted to engage the lower abdominal region with a relatively low tension and secured at its upper edge to the lower edge of said front girdle portion.

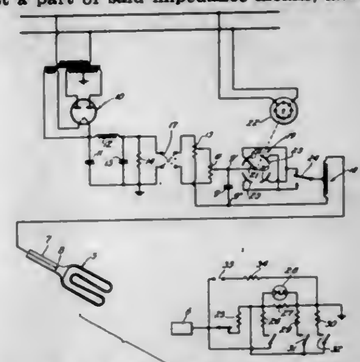
2,641,258
UNDERGARMENT
George E. Rutledge, Chicago, Ill., assignor to Munsingwear, Inc., Minneapolis, Minn., a corporation of Delaware
Application March 12, 1952, Serial No. 276,078
8 Claims. (Cl. 128—159)



1. An undergarment for molding the abdominal body area and embracing the lower side and back body areas comprising, a front girdle portion for overlying and extending substantially to the sides of the abdominal area and formed of circumferentially non-stretchable and vertically stretchable fabric with the upper edge substantially horizontal and the lower edge generally convex, a lower front portion for overlying the lowermost portion of the abdominal area and formed of two-way readily stretchable fabric with the upper edge secured to said convex lower edge of said front girdle portion and the ends constituting continuations of the ends of said front girdle portion, and a one piece side and back portion comprising a two-way stretch elastic section formed of elastic yarn joining the ends of said front girdle portion and capable of applying circumferentially relatively high tension thereto for applying from the sides support for the abdominal area both upwardly and inwardly, and a two-way readily stretchable lower portion joining the ends of said lower front portion and having its ends flared outwardly and downwardly to conform to and comfortably fit over the buttocks in various body positions.

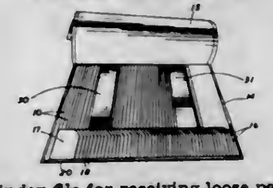
2,641,259
ELECTROPHYSIOTHERAPY APPARATUS
John Batrow, Branford, Conn., assignor to Barlow Laboratories, Inc., Branford, Conn., a corporation of Connecticut
Application October 5, 1948, Serial No. 52,845
5 Claims. (Cl. 128—423)

4. In an electrophysical neuromuscular stimulator of the character indicated, pulse-generator means including an electrical capacitor, means connected to said capacitor for charging said capacitor, electrical impedance means, means connecting said capacitor across at least a part of said impedance means, said connecting means including switching means having a control providing a timed switching operation at said connection to said impedance means at a repetition rate of the order of 10 to 20 per second, the rise time of the principal-pulse output of said generator means being of the order of 50 microseconds, and body-applicator means including two separate electrodes connected respectively across at least a part of said impedance means, and a di-



electric envelope filled with a conductive gas electrically in series with one of said electrodes.

2,641,260
INDEX FILE
Herbert Edward Elsden, Dublin, Ireland, assignor to Sendel Limited, Dublin, Ireland, a company of Ireland
Application January 18, 1952, Serial No. 267,034
In Great Britain November 1, 1951
4 Claims. (Cl. 129—15)

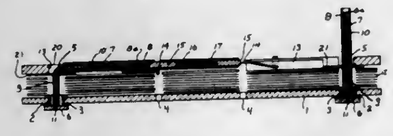


3. An index file for receiving loose papers having a backboard; a row of index strips having their rear margins located at the rear edge of the backboard, said index strips overlapping each other sideways across the file and having their front ends bent up and back for a distance sufficient to enable these ends to lie by reason of their weight substantially flat whether bent back or brought forward, each of said index strips except the last lying when folded back within the next folded index strip; said index strips being arranged so that they lie neatly folded within each other enclosing the front edges of the papers, the index strips being made of paper and each index strip except the last overlapping the adjacent strip by a substantial portion of its width, the overlap leaving the margins on one side of the index strips exposed; securing means passing through the backboard and index strips; and a cover sheet secured at its rear edge to the remainder of the file.

2,641,261
LOOSE-LEAF BINDER
Juan Bernabé Uthurriague, Buenos Aires, Argentina
Application October 31, 1950, Serial No. 193,130
In Argentina November 26, 1949
4 Claims. (Cl. 129—41)

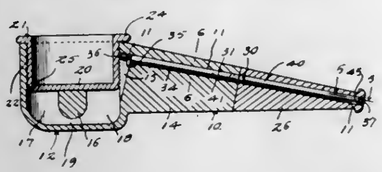
1. A binder for loose leaf books, comprising a lower cover having two perforations, an upper cover, and elastic binding posts extending through said perforations, each of said binding

posts having a cylindrical portion of elastic material provided at its lower end with an enlarged part of greater diameter than that of said perforations and a rigid tubular sleeve disposed around said cylindrical portion and fastened thereto adjacent the upper end thereof, a longitudinal channel in the upper cover adapted to receive said sleeves in horizontal position, a



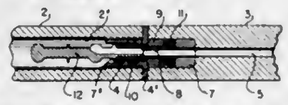
tubular member disposed centrally of said channel and enclosing a spring and a pair of locking bars adapted to be urged by said spring into locking engagement with said binding posts while in horizontal position, manipulating extensions on said locking bars, and laminated springs disposed in said channel, adapted to engage said locking bars and retain them in unlocked position.

2,641,262
SMOKING PIPE
Peter P. Catalano, Joseph P. Catalano, and Frank P. Catalano, North Collins, N. Y., assignors to Panepinto Mfg. Corp., North Collins, N. Y., a corporation of New York
Application February 21, 1947, Serial No. 730,068
1 Claim. (Cl. 131—184)



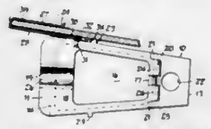
A smoking pipe comprising a bowl, a cup-shaped receptacle in said bowl, said receptacle being of a depth less than the depth of said bowl and said receptacle having an opening in the bottom thereof, a stem projecting from said bowl and formed with a longitudinal passage having a circular cross section terminating at its bowl end above the bottom of said receptacle, said bowl having a recess extending from the bowl end of said passage to a point below the bottom of said receptacle, a mouthpiece projecting from said stem and having a passage aligning with said stem passage, said passages inclining upwardly and forwardly, and a cleaner engaging in said passages, said cleaner comprising an elongated rod round in cross section and having a flat lower side spaced from the wall of said passages and forming a lower restricted smoke passage, a frusto-conical cleaner head at the forward end of said rod, a small diameter shank connecting said head with said rod, said small diameter shank and cleaner head being normally positioned within the bowl recess when the pipe is being smoked, said mouthpiece having a recess at its rear end extending laterally of the opposite sides of the mouthpiece passage, and a head fixed to the rear end of said rod engaging in said latter recess.

2,641,263
SMOKER'S PIPE
Jerome Gevirman, Brooklyn, N. Y.
Application May 27, 1949, Serial No. 95,761
2 Claims. (Cl. 131—211)



1. A smoker's pipe consisting of a bowl, a bowl stem integral with said bowl and having a threaded aperture in that portion that is disposed away from the bowl, a bit having a cavity communicating with a bit channel, and a connector consisting of a first exteriorly threaded sleeve having an outer flange, said flange having a beveled shoulder adjacent an axial bore and adapted to be screwed into said bowl stem aperture, said first sleeve being interiorly threaded, a second exteriorly threaded sleeve having an outer cup shaped portion, said portion having an inwardly disposed beveled shoulder, said second sleeve being adapted to be screwed into the said first sleeve with the bevel of the flange disposed against the beveled shoulder of the cup portion, a disc of resilient material and having a center aperture therein, said disc being adapted to be disposed in said cup shaped portion of said second sleeve, a knurled head having a tubular extension integral therewith, said extension being insertable through the aperture of said disc and through said second sleeve to a point slightly beyond the threaded extension of the said second sleeve, said knurled head and said cup shaped portion being disposed in said cavity of said bit channel, whereby a firm rotatable connection is effected between the bowl stem and the bit.

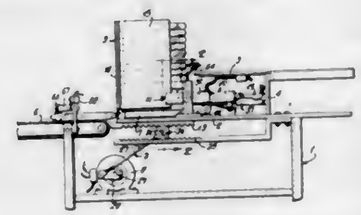
2,641,264
ASH TRAY FOR VEHICLES
Herman E. Stock, New Haven, Conn.
Application September 27, 1950, Serial No. 186,931
3 Claims. (Cl. 131—241)



3. An ash tray for a substantially vertically hinged ventilation window of an automotive vehicle, comprising an ash receptacle having opposite side walls and an open top; a bracket on which said receptacle is pivotally mounted about an axis extending near one end of said receptacle transversely of the side walls thereof; stop surfaces on said bracket, one of said stop surfaces being adapted to be engaged by said receptacle in its substantially horizontal ash receiving position, and one other stop surface being adapted to be engaged by said receptacle in its substantially inverted ash dumping position and said receptacle may be struck thereagainst to knock its contents therefrom; an apertured cover for the top of said receptacle, said cover being hinged to said receptacle with that end thereof which is remote from the pivot mounting of said receptacle so that said cover will gravitate away from and then onto the open top of said receptacle on swinging the latter into its ash dumping and ash receiving positions, respectively, and said cover being provided at the non-hinged end thereof with a cigarette holding trough so that said non-

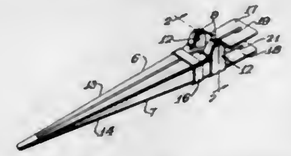
hinged end of the cover and the trough thereat form the major part of the mass of the cover, whereby said cover, when gravitating away from the open top of said receptacle on flipping the latter into its ash dumping position, will add to the force of the shock with which said receptacle engages said other stop surface; and provisions on said bracket for mounting the latter on a ventilation window so that the edges of the latter are substantially unobstructed to permit closure of the window.

2,641,265
CIGAR PERFORATING DEVICE
Henry W. Grady, Gadsden County, Fla.
Application February 5, 1952, Serial No. 270,004
14 Claims. (Cl. 131—254)



1. Mechanism for perforating cigars comprising, a hopper to receive superimposed layers of cigars, an ejector plate to push successive bottom layers of cigars from the hopper, means to move said ejector plate into and out of said hopper, and a perforating assembly including a cigar positioning head and a perforating bar having perforating pins mounted above said ejector plate in the plane of a layer of cigars above the bottom layer and movable into and from engagement with the cigars of said higher layer by said ejector plate.

2,641,266
PIN CURL CLIP
Lewis E. Thatcher, Chicago, Ill., assignor to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware
Application October 28, 1950, Serial No. 192,691
7 Claims. (Cl. 132—46)

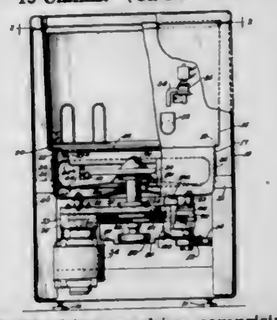


1. In a pin curl clip, a pair of members adapted to be blanked and formed from sheet metal, one of said members being formed intermediate its ends with a pair of offset pivot portions, the other of said members being formed intermediate its ends with a pair of transversely spaced arcuate bearing portions to receive said offset pivot portions, and a resilient rubber band mounted around and yieldably resisting pivotal movement of said members, said other member being formed with a boss disposed between said bearing portions to coact with said pivot portions to prevent lateral displacement of said members.

2,641,267
METHOD OF CLEANING INTERNAL-COMBUSTION ENGINES
Edward Faulkner, Anaheim, Calif.
No Drawing. Application March 30, 1950, Serial No. 153,005
2 Claims. (Cl. 134—20)

1. The method of cleaning interior parts of an internal combustion engine which comprises, disconnecting the ignition devices of one-half of the total number of cylinders of the engine, operating the motor to heat the same, opening the throttle to effect rapid operation while introducing a cleaning liquid into the cylinders, repeating said operation by disconnecting the ignition devices of the cylinders previously connected and electrically connecting the ignition devices of the cylinders disconnected during the initial operation, introducing a cleaning fluid into the cylinders while operating the motor, and discharging the contents of the cylinders through the exhaust.

2,641,268
DISHWASHING MACHINE
John T. Hellyer, Winfield, Ill., assignor to Thor Corporation, Chicago, Ill., a corporation of Illinois
Application May 4, 1951, Serial No. 224,478
15 Claims. (Cl. 134—112)

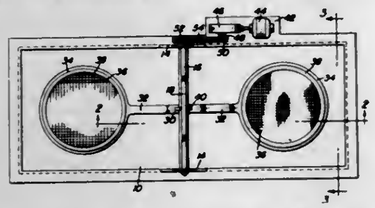


1. A dishwashing machine comprising a tub, an article receiving rack mounted in the tub, an upwardly open liquid receiving receptacle mounted in the tub, below said rack, drive means for rotating said receptacle about an upright axis at a speed sufficient to create a rotating annulus of liquid against the interior wall of the receptacle, a plurality of scoops mounted for rotation about said axis, and having inlet portions positioned in the path of travel of the liquid annulus to pick up liquid therefrom and outlets for discharging the picked-up liquid in the form of a spray, in an upwardly direction against and around articles on said rack, said scoops being mounted for free rotation about said axis so as to be rotated by the movement of and in the same direction as said liquid annulus, and means for retarding the rotation of said scoops to a speed less than the speed of rotation of said liquid annulus.

2,641,269
FILTER CLEANING MACHINE
R Lee G. Jones, Beaumont, Tex., and Stanley C. Okeon, Memphis, Tenn.; said Okeon assignor to said Jones
Application March 13, 1950, Serial No. 149,344
2 Claims. (Cl. 134—159)

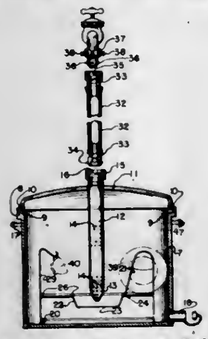
2. In a filter cleaning machine comprising a vat, a pair of supports rising from the vat, upper

and lower horizontal shafts journaled for rotation on said supports, means carried by the lower shaft for supporting filters, said upper shaft being



power driven and including an offset portion, and a bifurcated member fixed to said lower shaft, said offset portion being received between the furcations of said member.

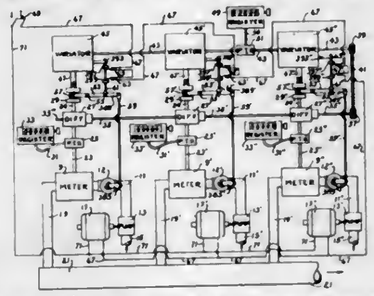
2,641,270
DISHWASHER
Thomas F. Allen, Washington, D. C.
Application September 15, 1947, Serial No. 774,169
2 Claims. (Cl. 134—200)



1. A dishwasher including a dish container, a dish rack detachably mounted in the container, the dish receiving elements of which are radially disposed and directed, and a water supply pipe mounted in the container and provided with oblong perforations elongated circumferentially of the pipe, the pipe being positioned to effect impingement of both sides of the dishes by water sprayed through the supply pipe.

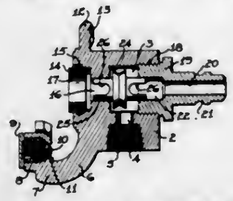
2,641,271
FLUID PROPORTIONER
Ralph B. Pressler, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application February 13, 1951, Serial No. 210,655
24 Claims. (Cl. 137—87)

1. In a fluid proportioner comprising at least two fluid flow lines, means for supplying fluid under pressure to said flow lines, a fluid meter in each line, the combination of a differential mechanism having two drives and an output member, means connecting a meter to one of said drives, speed adding means connected to be driven by said meters, a speed standard means connected to be driven by said adding means at a speed equal to the sum of said meter speeds, speed change means connected to be driven by said standard means and having an output shaft connected to actuate the other drive of said differential mechanism in a direction to actuate said output member in accordance with the difference in



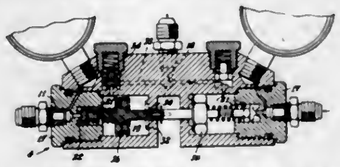
the speeds of said drives, and means connected with said output member for adjusting the speed of the associated meter.

2,641,272
CONVERTIBLE AIR HOSE COUPLING
Homer T. Seale, Los Angeles, Calif., assignor to Homer T. Seale, Inc., Los Angeles, Calif., a corporation of California
Application September 16, 1950, Serial No. 185,186
1 Claim. (Cl. 137—112)



An air hose coupler comprising a body having a central recess connected with two axially aligned bores, a valve member having a central flange and two axially aligned slotted extensions, one mounted in each bore movable to alternately close said bores, an outlet bore from said recess, a coupling member comprising a resilient sleeve connected with one of said bores, an extension having a detent at one side of said sleeve, and a hook-shaped member having a spring pressed dog extending to the other side of said sleeve, the other bore having a coupling member in the form of a hollow pin having an annular recess.

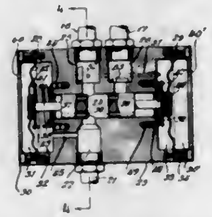
2,641,273
CHANGEOVER VALVE
Norman Harry Siebens, Cedar Grove, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application October 18, 1947, Serial No. 780,715
10 Claims. (Cl. 137—113)



1. A changeover valve comprising a housing, means providing a pair of inlets and an outlet

for the housing, means in the housing for closing one inlet from the outlet, pressure holding means to releasably maintain the closing means in the closed position, means to lead fluid from the open inlet to one side of the pressure holding means, and means leading from the housing to vent the other side of the pressure holding means.

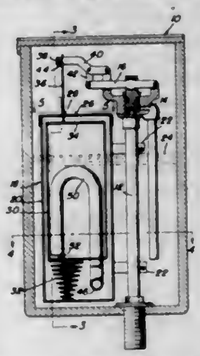
2,641,274
PRESSURE REGULATING AND SELECTING SYSTEM FOR AIRCRAFT INSTRUMENTS
Stewart M. Clippinger, East Orange, N. J., assignor to The Sperry Corporation, a corporation of Delaware
Application February 26, 1947, Serial No. 731,134
4 Claims. (Cl. 137—119)



1. In an automatic pressure selecting and regulating system, a device adapted to be connected between at least two sources of fluid pressure and a pressure utilizing apparatus, said device comprising, a unitary body portion having a longitudinal internal chamber, first and second ports communicating with said chamber and adapted to be respectively connected to said sources, a third port communicating with said chamber and adapted to be connected with said apparatus, valve means responsive to the pressure at said first port for closing said first port when the pressure therein drops below a predetermined value, diaphragm means having a first side and a second side, said diaphragm means being responsive to pressure differentials between said first and second sides, said first side being subjected to atmospheric pressure and said second side being subjected to the pressure at said first port, and a balanced piston valve operatively connected directly to said diaphragm means, said piston valve being slidably disposed within said chamber and movable in cooperable relation to said second port, whereby said diaphragm means directly moves said piston valve automatically to open said second port when the pressure at said first port is above a predetermined value and to close said second port when the pressure at said first port is below said predetermined value.

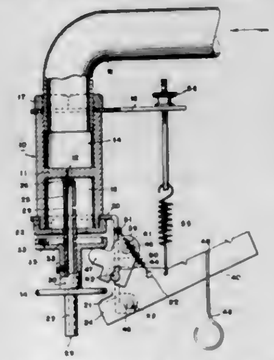
2,641,275
INLET VALVE ACTUATOR FOR FLUSH TANKS
Russell W. Stambaugh, Tucson, Ariz.
Application June 25, 1951, Serial No. 233,372
3 Claims. (Cl. 137—404)

1. A device for actuating a water inlet valve of a toilet tank, said device comprising a vertically elongated dry enclosure adapted to be mounted in a tank and extend above and below a normal level of water therein, a water receptacle shiftable vertically in said enclosure, means provided on said receptacle for operatively connecting the same to an inlet valve, resilient means for urging the receptacle upwardly in said enclosure, an inverted U-shaped siphon tube provided in and shiftable with said receptacle, one end of said tube being closely spaced above the bottom of the receptacle, the other end of the tube being secured in said bottom, and a flexible



extension provided on said other end of the tube, said extension being disposed in the lower portion of said enclosure and having a free open end projecting outwardly therefrom.

2,641,276
DOUBLE ACTING VALVE
Menno R. Suter, Harrisonburg, Va., assignor to Shenandoah Equipment Company, Harrisonburg, Va.
Application July 24, 1951, Serial No. 238,235
12 Claims. (Cl. 137—408)



1. A valve comprising a body having a water inlet port and a chamber beneath the port, an axially movable tube extending into the body and having an opening in communication with the chamber and an exit below the chamber, a port closure movable with the tube, two lever arms each having a pivot fixed with respect to the body and loosely pivoted together between their individual pivots, said loose pivot having a movement toward or away from the axis of the tube, two camming surfaces movable with the tube and spaced along a line parallel to the axis of the movement, a camming tooth on each lever arm to engage the respective proximate cam surface, and spring means to hold the two lever arms in such a position that when a chosen weight is suspended from one of said arms, the port closure is out of contact with the port, whereby an increase in the chosen load will rock the loose pivot in a direction against the urge of the spring

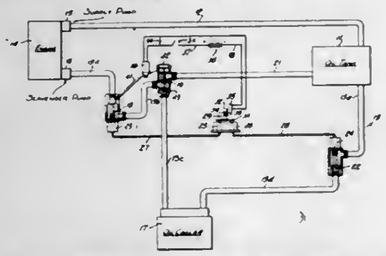
means and cause one tooth to elevate the tube to shut off the water by engaging one of the cam surfaces, and an abnormal decrease of the load, as by removing it, will cause the spring means to shift the two levers to move the loose pivot in opposite direction and to cause the other tooth to engage the other cam surface and thereby close the port against the water pressure.

2,641,277

FLUID SYSTEM DAMAGE CONTROL

Harry T. Booth, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio

Application August 27, 1945, Serial No. 612,907
15 Claims. (Cl. 137—460)



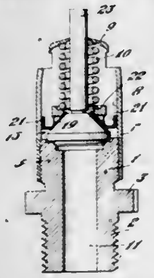
1. Apparatus for detecting fluid loss from a fluid flowing conduit and for discontinuing fluid flow through said conduit, including a valve for shutting off flow through said conduit, actuating means for said valve, first and second independent means movable by fluid flow occupying spaced positions in said conduit and having a deflection proportional to the rate of flow thereby, at least one of said movable means being downstream of said valve, and means utilizing a lesser deflection of one of said movable means relatively to the other to effect operation of said valve actuating means, said valve being normally open and closed by differences in flow of a predetermined amount.

2,641,278

PRESSURE RELIEF VALVE

Albert D. Eplett, Stratford, and Frank H. Hopkins, Fairfield, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey

Application August 19, 1946, Serial No. 691,566
1 Claim. (Cl. 137—542)



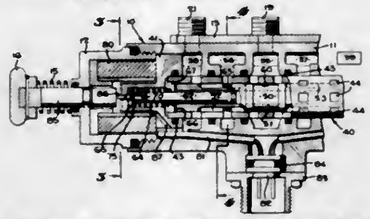
A safety valve of the kind in which a valve head normally contacts an annular metallic seat having a head-contacting surface whose diameter increases in the direction of fluid flow, the head consisting of a unitary solid mass of synthetic resin which is urged into contact with the seat by a loading spring and is lifted from the seat only by fluid pressure and wherein the valve comprises a bonnet which houses the loading spring, the bonnet having a guide opening at its top which is coaxial with the valve seat, and a rigid stem having a sliding fit in said opening in the bonnet and whose lower end is fixedly embedded in the substance of the valve head, a spring embracing the stem and which normally holds the valve head in leaktight contact with the seat, characterized in that the valve head comprises an upwardly tapering truncated conical body portion and has a peripheral surface and a bottom surface which intersect thereby providing an annular seat-contacting edge, the body portion of the valve head being peripherally unconfined when the valve is closed, the valve head being of a nylon, the body portion of the head being shaped retaining up to a temperature of 300° F. and under the load imposed by the spring, the valve head having a high coefficient of thermal expansion as compared with that of metal, further characterized in having a metallic guide provided with an apertured central portion which rests upon the upwardly tapering surface of the valve head and which is interposed between the lower end of the spring and the valve head and which is clamped against the valve head by the force exerted by the spring, said guide having a low coefficient of expansion as compared to that of nylon and having a sliding fit with an interior surface of the bonnet, thereby to maintain the valve head in coaxial relation to the seat.

2,641,279

CONTROL VALVE FOR HYDRAULIC ACTUATING CYLINDERS

Lee E. Baldwin, Glendale, Calif., assignor to Weston Hydraulics, Limited, North Hollywood, Calif., a corporation of California

Application June 10, 1948, Serial No. 32,178
9 Claims. (Cl. 137—623)



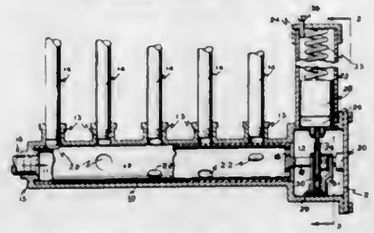
1. In a valve of the type having a housing with a connection to receive fluid under pressure and a member in said housing selectively movable in one of two directions to control the flow of said fluid under pressure, actuating means for said member comprising: closure means in said housing forming a pair of pressure chambers adjacent opposed surfaces of said member; fixed means in said housing in sliding, fluid tight contact with said member and cooperating therewith to form a pair of inlet passages through said member adapted to deliver said fluid under pressure from said connection into each of said pressure chambers; fixed means forming a pair of exit passages, one leading from each of said pressure chambers; a pair of flow check members each normally positioned in one of said chambers to block one of said exit passages; and means including a pair of separate actuators each positioned adjacent one of said pressure chambers to selectively move one of said flow check members out of said exit blocking position and into position to block one of said inlet passages whereby to empty and prevent refill of one of said pressure chambers, and permit movement of said control member under pressure from the other of said pressure chambers.

2,641,280

AUTOMATIC CONTROL VALVE FOR BRANCH PIPE LINES

Henry G. Fleischhauer, Portland, Oreg.

Application June 23, 1948, Serial No. 34,792
4 Claims. (Cl. 137—625)



1. In a fluid distributor for the purpose described, a main housing chamber, said housing chamber having an inlet for connection to a main delivery pipe and a plurality of outlets for connection to branch pipe lines, rotatable valve means for opening and closing said outlets consecutively, a rotatable element on said valve means, a ratchet wheel connected with said element, a cylinder, a piston within said cylinder, one end of said cylinder connected to said main housing chamber so that fluid pressure in said cylinder will be the same as in said chamber and will cause said piston to move in one direction, spring means for returning said piston to starting position when said fluid pressure is relieved, a ratchet-engaging element operated by said piston and producing rotation of said ratchet wheel whenever said piston is moved by said fluid pressure, whereby when fluid from said inlet flows into said main housing chamber the pressure in said chamber will move said piston and cause rotation of said valve means to open one of said outlets, and when the fluid from said inlet stops flowing and said pressure in said main housing chamber is reduced the piston will return to starting position.

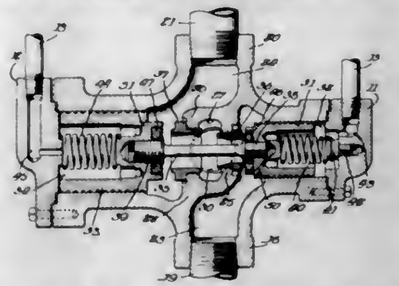
2,641,281

PILOT CONTROLLED MULTIPLE VALVE ASSEMBLY

Harry A. Phillips, Chicago, Ill.

Original application November 12, 1948, Serial No. 59,693, now Patent No. 2,589,859, dated March, 18, 1952. Divided and this application November 12, 1948, Serial No. 59,694
1 Claim. (Cl. 137—657)

In valve structure of the character described, in combination, a valve housing having an inlet chamber for a fluid under pressure, an outlet chamber, and a fluid delivery passage connected to the housing between said inlet and outlet chambers, an inlet valve seat of small diameter located between the inlet chamber and said delivery passage, an outlet valve seat of larger diameter located between the outlet chamber and said delivery passage pipe, piston structure for alternately closing the inlet and outlet valve seats and including a high pressure piston associated with the inlet valve seat and a low pressure piston of greater area than said high pressure piston and associated with the outlet valve seat, a cylinder for each piston and each cylinder providing a piston chamber mounting its piston for reciprocation, means extending through the valve seats and connecting said pistons in opposed relation and spaced a distance greater than the distance between the valve seats, whereby when either valve seat is closed by its respective piston the other is open to communicate the fluid delivery passage with either the inlet or outlet chambers, resilient means tensioning the piston structure to maintain the high pressure piston against its valve seat, a restricted passage connecting the inlet chamber with the piston chamber for the high pressure piston, another restricted passage connecting the outlet chamber with the piston chamber for the low pressure piston, conduit means joining the said piston chambers whereby the fluid pressures in the piston chambers may be substantially equalized to cause an unbalancing of the resilient tensioning means and closing of the low pressure piston with opening of the high pressure piston, and a valve member in the conduit means for closing the same.



2,641,282

PRESSURE OPERATED COLLAPSIBLE VALVE

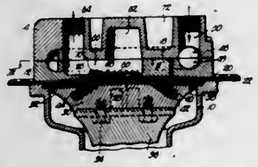
William A. Hazlett, Baltimore, Md.

Application March 16, 1949, Serial No. 81,695
10 Claims. (Cl. 137—688)



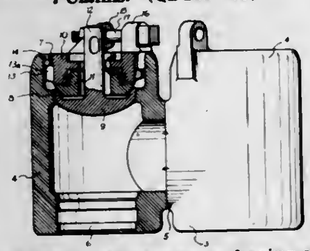
1. A new article of manufacture consisting of a cylindrical casing of circular cross section which concentrically surrounds a flexible tubular valve member, the ends of the casing and the ends of the valve member being connected so as to define a fluid-tight space between the inner surface of the casing and the outer surface of the valve member, said valve member having integral tabs of streamline shape on its inner surface and integral flat tabs on its outer surface, said tabs on the inner and outer surfaces of the valve member being disposed circumferentially around the valve surfaces in the same plane transversely of the valve, each of the outer flat tabs being located in slightly staggered relation to an adjacent inner streamline tab thereby providing a relatively weak wall section between the thickened end of each streamline tab and each outer flat tab.

2,641,283
PUMPING DEVICE
Junius W. Houston, Kansas City, Kans.
Application October 13, 1947, Serial No. 779,616
4 Claims. (Cl. 137—788)



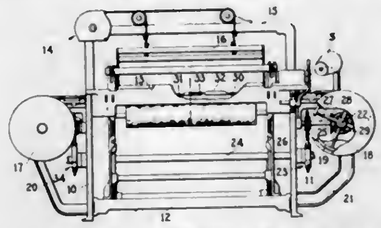
1. In a pumping apparatus of the character specified, a hollow casing; a reciprocable piston in said casing having a head on one end thereof provided with a dome-shaped face; a flexible, resilient, compressible disc-like member having an outer peripheral portion clamped within said casing, said member being imperforate and having a central portion tightly fastened to, bearing flatly against, and reciprocative with a central portion of said face of the piston head, said member having a circular portion intermediate its central and peripheral portions free to flex during reciprocation of said piston head, said piston head having a continuous annular groove formed in said face thereof and surrounding said central portion of said face; a continuous, annular flange integral with said member, surrounding said central portion of the member, and extending into said groove of the piston head, said flange projecting outwardly from one face of the member proximal to said face of the piston head.

2,641,284
HEADER
John E. Loeffler, Houston, Tex., assignor to Thornhill-Craver Company, Houston, Tex., a corporation of Texas
Application October 23, 1946, Serial No. 705,081
7 Claims. (Cl. 138—95)



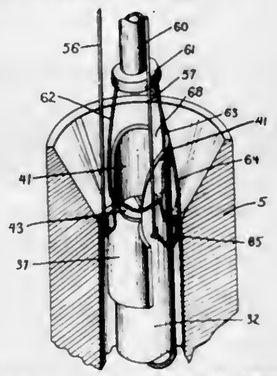
5. In a high pressure member having an opening and a plug therefor, a seat in the opening with an outwardly tapered seating surface, a removable locking assembly to secure the plug in the opening upon the seat, said locking assembly including an annular member engageable with the plug to urge the plug into sealing engagement with the seat, said annular member having an upwardly directed flat shoulder, a locking member having its lower end surface complementary to the surface of the flat shoulder of the annular member and engageable with said flat shoulder of the annular member to urge the same into contact with the plug, and a loose swivel connection between the annular member and locking member permitting rotative and limited lateral movement of the locking member relative to the annular member and plug.

2,641,285
METHOD AND MECHANISM FOR SHUTTLELESS LOOMS
Maurice R. Flamand, Central Falls, R. I., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application November 28, 1950, Serial No. 197,945
12 Claims. (Cl. 139—122)



1. In a method of weaving in a loom of the type in which reciprocable carriers are employed to draw and insert picks of filling from an outside source of supply, the steps of drawing a doubled length of filling from the supply by a first reciprocable carrier while holding an end of the filling opposite the supply, transferring the doubled length of filling to a second reciprocable carrier releasing the first mentioned held end, holding the filling against further withdrawal from the source, and extending an end of the filling first drawn in double length, over the width to be woven by said second reciprocable carrier, and so controlling the speed of said reciprocable carriers that the first which draws the doubled length moves at a substantially slower rate and for a distance effectively shorter than the speed and distance at and through which the second instrumentality is moved.

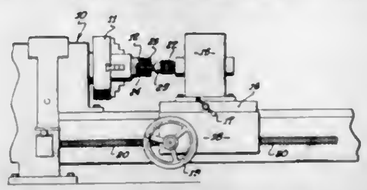
2,641,286
APPARATUS FOR SHAPING ELECTRIC LAMP MOUNTS
Gerald S. Quinn, Salem, and Mazeppa D. Betts, Rockport, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application May 29, 1948, Serial No. 30,038
4 Claims. (Cl. 140—71.6)



1. Apparatus for shaping a lamp filament mount having at least two lead wires sealed intermediate their ends in the stem press and extending beyond the arbor button, and at least

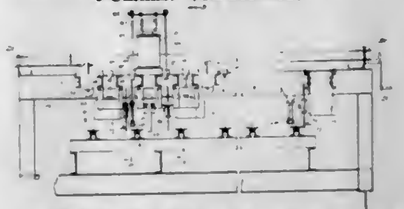
one filament support wire mounted on and extending beyond the arbor button, the adjacent ends of said lead wires and filament support wire lying in substantially the same plane and having a filament mounted thereon, said apparatus comprising: a hollow, truncated shaper cone terminating into a tube depending therefrom; a cylinder, concentric with said tube, disposed therein, and spaced from the inner wall thereof a distance sufficient to freely admit the lead wires and filament support wire therebetween, said cylinder having a tongue on an end thereof normally extending into said cone; and means for sequentially moving firstly said cone into encompassing relationship with respect to the mount to draw the adjacent free ends of the lead wires and the filament support wire on which the filament is mounted toward one another and said tongue into engagement with the filament support wire intermediate the ends thereof, secondly said cone into further encompassing relationship with respect to the mount to bring the tube depending from said cone into encompassing relationship with respect to the lead wires and the filament support wire whereby the lead wires and the filament support wire lie within the space between said cylinder and said tube, and thirdly said cone and the tube depending therefrom into further encompassing relationship with respect to the mount, and means for moving said tongue, in proper timed relationship with respect to the movement of said cone and the tube depending therefrom, against the filament support wire to bend it back on itself and thereby move the end of the filament support wire on which the filament is mounted out of the plane in which the ends of the lead wires on which the filament is mounted lies and locate it in a different plane.

2,641,287
APPARATUS FOR CUTTING THREADS
Clarence Brant Keys, Sherman Oaks, Calif.
Application November 21, 1949, Serial No. 128,543
2 Claims. (Cl. 142—35)



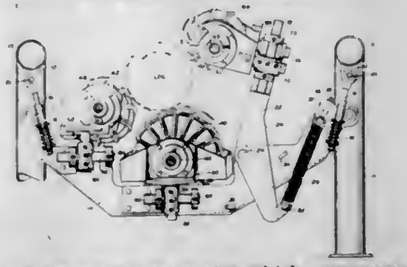
1. A milling tool for cutting threads in a rotatable work piece comprising: a rotatable shank provided with a pair of symmetrically disposed, radially extending blades, each blade having an outer surface lying in a plane deviating from a plane perpendicular to the axis of the shank by one-half the root angle of thread to be cut, said surfaces facing in opposite directions, each of said planes terminating in a curved cutting edge, the points along such edge on each of the blades farthest removed from the axis of the shank lying in a common plane perpendicular to the shank axis and constituting cutting points for the root of a thread; the outer surface of each blade being raked back from said cutting edges whereby said planes are inclined to the shank axis in two coordinates; corresponding points along said curved cutting edges, at progressively shorter distances from the shank axis, being at progressively greater distances from the common plane perpendicular to the shank axis and in which said outermost points lie.

2,641,288
DOUBLE SAW CARRIAGE FOR LUMBER TRIMMING MACHINES
Charles Blickenderfer, Jr., Puyallup, and Warren S. Brownfield, Tacoma, Wash., assignors to Weyerhaeuser Timber Company, Tacoma, Wash., a corporation of Washington
Application June 13, 1950, Serial No. 167,878
9 Claims. (Cl. 143—41)



1. In a saw carriage for a lumber trimming machine, a pair of spaced saws, a latch for indexing the carriage at a plurality of sawing stations, lifting mechanism connected with both of said saws and said latch for lifting both saws and releasing said latch for traverse of the carriage, lumber engaging means disposed between said saws having direct positive connection with only one of said saws to lift said one saw when said means is engaged by lumber, and a lost motion element in the connection between said lifting mechanism and said one saw to disjoin said lifting mechanism and thereby the other saw and said latch from the lifting action of said means.

2,641,289
BARK-REMOVING APPARATUS HAVING LOG-ROTATING AND LOG-ADVANCING PEELER HEADS
John B. Merrifield, Ellisville, Miss., assignor of two-thirds to James B. Fuller, Laurel, Miss.
Application June 23, 1952, Serial No. 295,079
14 Claims. (Cl. 144—208)

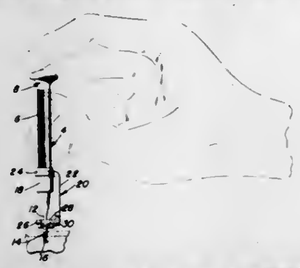


1. A log peeling apparatus which comprises a supporting frame, a series of peeling units resiliently suspended from the frame, each peeling unit comprising a plurality of rotating peeler heads positioned in different horizontal planes and rotating in the same direction at different circumferential speeds, and flexible power transfer shafts connecting corresponding peeler heads of the peeling units in the series.

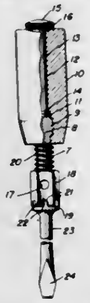
2,641,290
MAGNETIC SCREW HOLDING ATTACHMENT FOR SCREW DRIVERS
Robert C. Webb, Ashland, Ky.
Application June 11, 1951, Serial No. 230,857
1 Claim. (Cl. 145—50)

For use in temporary and optional association with a small size screwdriver such as is used by

an optometrist for inserting and removing tiny elusive screws on eyeglasses and the like and wherein the screwdriver is provided with a knurled shank and a swivelled head at one end of the shank and a bit at its other end; an adaptor sleeve adapted to be fitted frictionally over a cooperating knurled portion of said shank, said sleeve being exteriorly smooth, and a substantially U-shaped yoke having a laterally disposed collar adapted to encircle and slide on said sleeve and also having a lateral eye at the opposite end of said yoke, the opening in said eye being in axial alignment with said collar, and an annular permanent magnet of a diameter and size adapted to be removably but magnetically attached to a coacting surface of said eye.



2,641,291
RATCHET CLUTCH HANDLE
Thomas R. Yess, Schenectady, N. Y.
Application November 6, 1947, Serial No. 784,473
2 Claims. (Cl. 145—76)



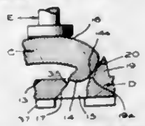
1. A hand tool of the class shown and described comprising a hand-grip provided with an axial bore opening through opposite ends of the hand-grip, an elongated shank having an end portion telescoping into one end of the bore in said hand-grip, enlarged in cross-section and embedded in said hand-grip and provided with an internally screw-threaded socket in alignment with said bore, an intermediate portion of said shank, at a point spaced from said hand-grip, having an outstanding discal flange provided with fixed circumferentially spaced lugs, a sleeve slidably and rotatably mounted on said shank between the flange and hand-grip, said sleeve being polygonal in cross-section and providing external flat faces forming tool grips, one end of said sleeve being provided with notches and said notches being releasably engageable with said lugs, a coiled spring surrounding the shank and bearing at one end against the shoulder provided by the hand-grip and at its opposite end against the adjacent end of said sleeve, said sleeve being provided with in one side a screw-threaded opening right angles to said shank and constituting another socket, a rod member fitted telescopically and removably in the bore in said hand-grip and having a screw-threaded portion screwed into the first named socket, the outer end of the rod member having a head and said head bearing against the adjacent end of the hand-grip and closing the corresponding end of said bore, the socket in said sleeve corresponding in diameter to the socket in said bore in order that both of said sockets may be selectively employed to accommodate the screw-threaded end of said rod member.

2,641,292
CONTAINER
Michael J. Quillinan, New York, N. Y.
Application August 17, 1951, Serial No. 242,325
9 Claims. (Cl. 150—0.5)



1. In a container, a flexible diaphragm acting in combination with spring means, a face connecting with the peripheral portions of said diaphragm, said face foldable along at least one axis of the container, said spring means provided on said face and acting to revolve opposed portions thereof about said axis and upon said diaphragm through said face to fold the diaphragm resiliently about said axis, parts of said face being urged into communication with each other thereby.

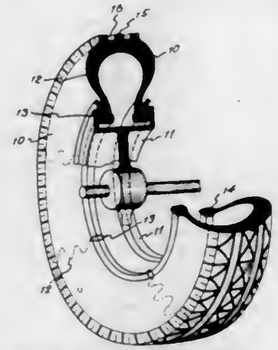
2,641,293
HIGH-POWERED LOCK NUT
Earle Victor Morley, Oakland, Calif.
Application April 24, 1950, Serial No. 157,834
5 Claims. (Cl. 151—41.5)



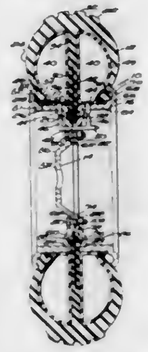
1. In a lock nut: a ring adapted to receive a shank of a bolt; the ring having a radial slot therein with an angular wall; and a resilient split washer having a hook-shaped end adapted to enter the slot and a raised curved portion disposed adjacent to the hook; the angle of the hook being greater than the angular wall of the slot so that the curved portion has to be momentarily flattened to permit the hook to enter the slot; the curved portion upon returning to normal position, holding the hook against the angular wall of the slot for anchoring the washer to the ring.

2,641,294
ELECTRIC CURRENT DISCHARGE RUBBER TIRE
Guillermo Palacios Bridgefield, Mexico City, Mexico
Application October 2, 1950, Serial No. 187,849
In Mexico June 13, 1950
4 Claims. (Cl. 152—151)

1. A resilient tire including end flanges to contact with metal flanges of a supporting metal wheel rim, metal conductors embedded in and disposed at intervals in the body portion of the resilient tire, the metal conductors extending through the body portion and around the flanges of the tire to contact with the supporting metal wheel rim, the metal conductors each including a flat metal body disposed in the tread portion of the tire, the flat metal body having an extension which projects beyond the tread surface of the tire.

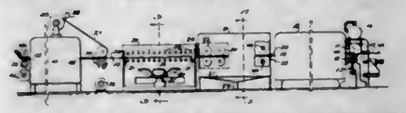


2,641,295
MULTICHAMBER PNEUMATIC TIRE
John B. Des Rosiers, Providence, R. I.
Application April 21, 1949, Serial No. 88,705
4 Claims. (Cl. 152—339)



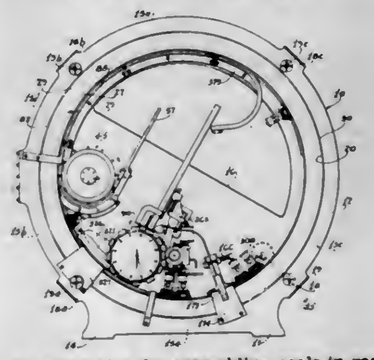
1. A pneumatic tire for use with rims having annular locking means substantially centrally thereof, comprising an annular cylindrical casing having arcuate side walls terminating in flat rim abutting lower ends and an annular center wall projecting downwardly substantially centrally of the tread surface thereof to the rim, having a flexible upper portion and a rigid lower portion for at least half its lower length and having annular locking means on the lower end thereof adapted to be engaged with the annular locking means in said rim to maintain said lower end in rigid position centrally of said rim providing complementary substantially hemi-cylindrical annular cushioning air chambers on each side thereof.

2,641,296
MACHINE FOR THE CONTINUOUS APPLICATION OF FOAM RUBBER CUSHIONING TO A CARPET
John Marco, Wilmington, Del.
Application June 19, 1950, Serial No. 168,918
7 Claims. (Cl. 154—1)



1. A machine for the application of foam rubber to a carpet, comprising in combination, a fluid foam rubber feeding unit, a carpet delivering means for guiding a carpet along in a predetermined plane, by said unit so as to receive a layer of fluid foam rubber thereon as the carpet travels thereby, a vulcanizing chamber for combining the foam rubber layer and carpet together, a washer structure for receiving the combined vulcanized foam rubber and carpet material continuously, a reinforcing lining applicator means for applying a lining over the surface of said layer, means for removing the lined foam-rubber carpet material from said means continuously, means for actuating said means for delivering and guiding said material from the feeder to its removal from said machine, said applicator means including a sprayer for spreading cement to the lining to facilitate its attachment to said foam rubber layer and vulcanizing means for making a permanent attachment of the lining thereto and a single frame for coupling and aligning the unit, means, chamber, structure together, said unit being arranged to peripherally and longitudinally distribute said fluid rubber to said carpet.

2,641,297
APPARATUS FOR ASSEMBLING RECEPTACLE CLOSURES AND SEALS
Elbe A. Wiickens and Charles C. Stoll, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application March 30, 1950, Serial No. 152,866
35 Claims. (Cl. 154—1.5)



1. An apparatus for assembling seals in receptacle closures, comprising an annular main dial mounted for rotation on a substantially horizontal axis and having an inwardly facing annular surface, a plurality of closure receiving seats on said surface, means for delivering a line of clo-

sures to the seats for travel therewith along an arcuate path, means for delivering seals to the closures on said seats, means for shifting the closures and seals axially of the dial for travel along an arcuate path parallel to the first path, and means for applying heat and pressure to the seals and closures as they travel along the last mentioned path.

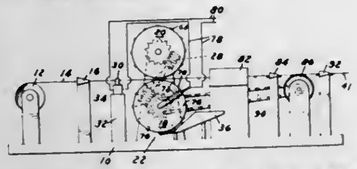
19. A mechanism for delivering ring gaskets to receptacle caps moving in a line in spaced relation along a predetermined path, comprising a dial having a plurality of radially projecting heads mounted for revolution on a path substantially tangential to the path of cap movement, means for supporting a stack of ring gaskets with the lowermost ring partially intersecting the path of movement of the leading portions of said heads, to receive said portion therein and to be dragged from the bottom of the stack thereby, and means for discharging the rings from the heads on the tangential portion of said paths to deposit the rings in the caps.

2,641,298

METHOD AND APPARATUS FOR APPLYING SEEDS TO CARRIERS

Joseph Douglas Kinnear, Jr., Detroit, Mich.

Application September 22, 1949, Serial No. 117,249
20 Claims. (Cl. 154—1.6)



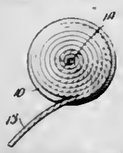
1. The method of securing a pelleted seed to a carrier member which comprises incorporating a magnetic material in the pelleted seed, bringing the seed into contact with a magnet so that the seed adheres to the magnet, applying an adhesive to a length of carrier member and moving the magnet relative to the carrier member so as to bring the seed retained by said magnet into contact with the adhesive on said carrier member.

2,641,299

MEANS AND METHOD OF APPLYING COILED LAYERS OF RAFFIA TO THE BOTTOM OF BOWLS

Israel Bloom, New York, and Jess Abrams, East Rockaway, N. Y., assignors to Conelstan Corporation, New York, N. Y., a corporation of New York

Application January 18, 1952, Serial No. 267,101
2 Claims. (Cl. 154—1.7)



1. A device for forming and applying a coiled layer of raffia to the bottom of a bowl, comprising a flat disc having an opening near the center of the same, of a size to receive the end of a strip of raffia, and a post of about the same diameter as the raffia, adjoining said opening and located substantially at the center of the disc and projecting from the face of the disc a distance approximating the diameter of the raffia and about which a length of raffia, caught at the end in the opening, may be wound in an ever increasing spiral in a single flat layer on the face of the disc and which may be applied by the disc in a single layer over the bottom of the bowl.

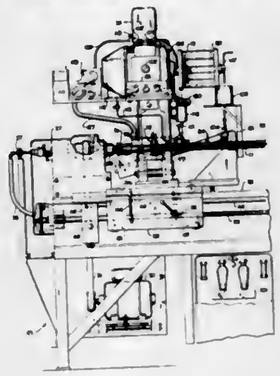
2. The method herein disclosed of applying a starting layer of coiled raffia to the bottom of a bowl which has been coated with adhesive, and comprising providing a disc with a hole near the center and a projecting post adjoining the hole and substantially at the center of the disc, inserting the end of a strip of raffia through said hole and then winding the strip about said post in an ever increasing spiral layer over the face of the disc and then applying the complete layer to the adhesively coated bottom surface of the bowl by pressing the layer covered face of the disc against the adhesively coated bottom of the bowl and thereafter lifting the disc away from the applied layer and in so doing freeing the hole in the disc from the end of the raffia.

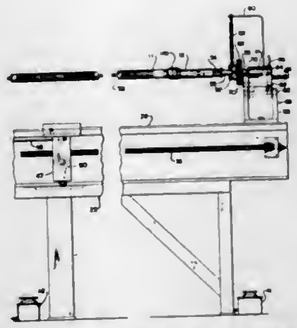
2,641,300

HOSE MAKING MACHINE

Frank A. Martin, Akron, and Kenneth R. Warburton, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 19, 1950, Serial No. 162,882
18 Claims. (Cl. 154—7)





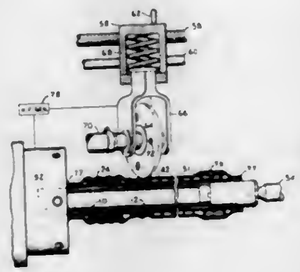
1. A hose making machine for assembling a seamless elastomeric thermoplastic tube over an expanded coiled reenforcing wire and winding an elastomeric thermoplastic cord under constant tension over the tube midway between the expanded convolutions of the coiled wire comprising, a bed plate, a carriage movably mounted on said bed plate, a lead screw for moving said carriage along said bed plate, said lead screw having the same pitch as that of the expanded coils of the reenforcing wire, a mandrel of substantially the same diameter as the inside diameter of the coil rotatably mounted on said bed plate, a reversible motor drivingly connected to said mandrel and lead screw so as to rotate them in unison, internally threaded coil spacing means carried by said carriage the threads of said spacing means having a greater pitch than that of the free coils of the wire and of a diameter to tightly grip the wire coils whereby the coils of the spring are stressed axially and circumferentially to cause the coils to grip said mandrel as said mandrel is rotated in one direction and said carriage moves from one end of said bed plate to the other, a cord reel and cord tensioning device carried by said carriage, and means for controlling the tension applied to the cord by said tensioning device so that the cord is wound about the tube under constant tension as the mandrel is rotated reversely, and said carriage returns to the starting end of said bed plate.

2,641,301

METHOD OF MAKING SUCTION CLEANER HOSE

Dale C. Gerber, North Canton, and John E. Vance, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application November 22, 1947, Serial No. 787,544
13 Claims. (Cl. 154—8)



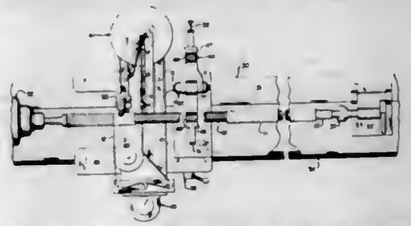
1. The method of making a flexible hose comprising, applying a seamless tube of thermoplastic heat fusible material to a cylindrical mandrel, wrapping a reenforcing wire helically about said thermoplastic tube with the convolutions of the wire spaced along the length of said tube, applying a seamless covering of thermoplastic heat fusible material over the helically wound wire and thermoplastic tube and heat-sealing the thermoplastic covering to the thermoplastic tube solely between the convolutions of the helically wound reenforcing wire whereby the reenforcing wire has freedom of movement in the space between the fused portions so as to render the completed hose flexible.

2,641,302

METHOD OF MAKING FLEXIBLE HOSE FOR SUCTION CLEANERS

Frank A. Martin, Akron, and Kenneth R. Warburton, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 19, 1950, Serial No. 162,883
20 Claims. (Cl. 154—8)



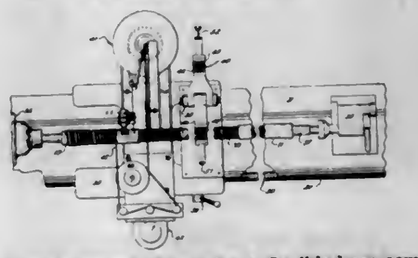
6. The method of making a flexible hose comprising, placing a coiled spring wire having a given pitch and inside diameter on a mandrel, securing the ends of said spring to said mandrel, applying a seamless tube of elastomeric thermoplastic of substantially the same length as said spring over said spring, winding under constant tension a cord of elastomeric thermoplastic about said tube between the convolutions of said spring while applying a solvent between said tube and cord, securing the ends of said cord to said tube, removing the hose carcass thus formed from said mandrel to permit it to collapse axially, relieving the tension on said cord, heating said carcass to such a temperature and for such period of time as to cause said cord and tube to become semiplastic while the tension on said cord is relieved, cooling said carcass until said cord and tube resolidify while the tension on said cord is relieved and retensioning said cord.

2,641,303

METHOD OF MAKING FLEXIBLE HOSE

John E. Vance, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

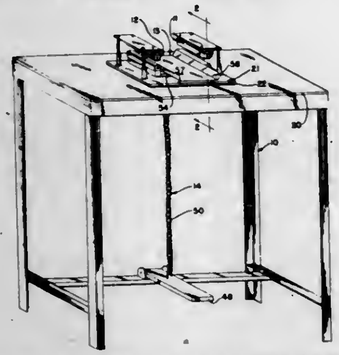
Original application June 14, 1949, Serial No. 98,920. Divided and this application March 16, 1951, Serial No. 215,945
8 Claims. (Cl. 154—8)



1. The method of forming a flexible hose comprising, winding a spring wire into a cylindrical spiral having a given pitch and diameter, applying a stress axially and circumferentially successively to the coils of said spring from one end to the other to increase the pitch and number of the coils in said spiral, holding the coils of said spiral in their stressed position while applying an elastomeric thermoplastic tube over said coils having the same internal diameter as the un-

stressed internal diameter of said coils and spirally winding a tensioned elastomeric thermoplastic cord over said tube between the coils of said spiral while it remains in its stressed condition, anchoring the ends of said spiral coils and tube to each other while under their stressed condition and releasing the stress on said coils to place said cord under a circumferential stress, said tube under an axial stress, said spring remaining tensioned axially and circumferentially.

2,641,304
SEALING MACHINE
Guy R. Biddinger, Bellwood, and John B. Hanner, Oak Lawn, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Application March 24, 1952, Serial No. 278,264
6 Claims. (Cl. 154—42)



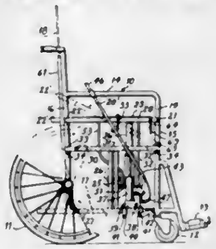
1. A device for sealing the extending sides and end of a sheet of thermoplastic material wrapped about an object, said device including a frame, a hot plate on which said wrapped object may be placed with the end of the material against the plate, said plate being mounted on said frame, heating means for said plate, a pair of jaws to either side of said plate to seal the extending sides of the material, and means to close said jaws about said sides, each of said jaws comprising a lower jaw member, an upper jaw member, heating means for each of said members, one of said jaw members being attached to said frame, mounting means for the other jaw member, the other jaw member being attached to said mounting means, said mounting means being supported on said frame for linear movement of said other jaw member toward and away from said one jaw member, and resilient means urging said other of said jaw members away from said one jaw member, said jaw closing means including a foot treadle to close the jaw after the wrapped object has been inserted and is being held in place by the operator's hands.

2,641,305
SEAT FOR MOTOR VEHICLES
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application September 12, 1946, Serial No. 696,409
10 Claims. (Cl. 155—5)

10. A vehicle having a side entranceway, a seat disposed rearwardly of the entranceway, means mounting the seat for tilting whereby the front portion of the seat will move forward and the rear portion of the seat will move forward and upward, a power operated motor operatively connected to the seat for so tilting the same, an assist pull member adjacent the seat on which the occupant may pull to assist him in leaving the seat, and means operable by the pull member for controlling the admission of fluid to the motor whereby to cooperate with the occupant's lifting effort on the pull member in lifting the occupied seat.

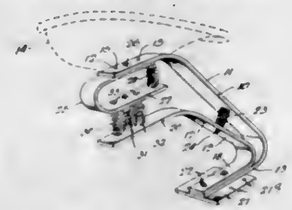


2,641,306
FOLDABLE WHEEL CHAIR
Monroe Arnold Lerman, Sunnyside, N. Y.
Application January 16, 1952, Serial No. 266,752
3 Claims. (Cl. 155—30)



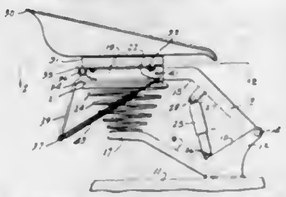
1. A foldable wheel chair, comprising a pair of side frames with wheels, a flexible seat back mounted between said frames, a slide member vertically slidably mounted on each of said frames, stops for determining the bottom positions of said slide members, a pair of crossed arms pivotally connected at their centers and having their bottom ends pivotally connected with said side frames and having their top ends pivotally connected with said slide members for controlling the folding together and opening of said side frames, a seat support member vertically slidably mounted on each of said frames immediately above said slide members, a flexible seat mounted between said seat support members, and means operable by a person sitting on said seat for adjusting said seat support members to various elevated positions for adjusting the elevation of said seat, said means including telescoping members which are free to extend at any time in order that said slide members may be moved completely upwards by said crossed arms to permit folding of said chair, said telescoping members including a jack mounted on one of said side frames and having its extendable telescopic member connected with one of said seat support members, and support arms pivotally connected with said extendable telescopic member and with said other of said seat support members.

2,641,307
SEAT SUPPORT
James F. McKinney and Arthur E. Miller, Aurora, Ill., assignors to Farm Appliance Corporation, Aurora, Ill., a corporation of Illinois
Application March 5, 1948, Serial No. 13,318
5 Claims. (Cl. 155—51)



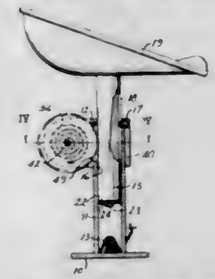
3. A support for a tractor seat comprising a spring metal strap having an inclined intermediate portion and a horizontally disposed end portion for mounting the tractor seat, another spring metal strap having a lower horizontal portion at one end connected with the horizontal portion of the first strap for mounting onto the tractor and having an intermediate portion inclined at an angle from the horizontal portion differing from that of the angle between the intermediate portion and the horizontal portion of the first strap whereby the intermediate inclined portions diverge from each other in spaced relation so that each moves through different paths when flexed in response to applied forces, a coil spring interconnecting the divergent portions between the spring metal straps, a third spring metal strap connected at one end portion to the underside of the seat supporting end portion of the first strap and having a free end portion disposed between the spaced apart end portions of the first two straps, and resilient means operatively connecting the spaced apart portions of the various straps to expand the first two straps from their normal position and relate the flexing movements whereby they are quickly and smoothly returned to their normal expanded position.

2,641,308
TRACTOR SEAT MOUNTING
Joseph Bock, Kalispell, Mont.
Application November 20, 1951, Serial No. 257,334
3 Claims. (Cl. 155—51)



1. In a tractor seat assembly including a tractor-mounted pedestal, a seat post pivotally connected at one end to said pedestal and extending upwardly and rearwardly of the associated tractor from said one end, clamp brackets secured on said post adjacent the other end thereof, a spring abutment plate carried by said brackets below said post, a spring support carried by said pedestal below said spring abutment plate, a compression spring disposed between said abutment plate and said spring support resiliently supporting the rear end of said post, a hydraulic snubber connected between said pedestal and said post controlling the action of said compression spring, and a seat pan disposed above said clamp brackets at the upper side of the latter, a hinge mounting for said seat pan comprising bars secured to said clamp brackets in spaced apart and substantially parallel relationship to each other and said seat post, hinge sleeves disposed one on each of said bars at the rear ends thereof, a rod disposed below the rear ends of said bars and extending transversely thereof with its ends projecting outwardly of the corresponding bars, struts connecting said rod to said bars, a plate disposed between said brackets and said seat pan and secured to the latter, a hinge sleeve on said plate at the rear end of the latter and disposed between the hinge sleeves on said bars, a hinge pin extending through said hinge sleeves and having its axis substantially at right angles to the longitudinal center line of said post, arms projecting one from each side of said plate at the front end thereof, and tension springs connected one between each end of said rod and each of said arms at the outer ends of said arms.

2,641,309
TORSION SPRING SUPPORTED PEDESTAL SEAT MOUNTING
Harold W. Bostrom, Frank A. Grabarczyk, and Ferdinand E. Svanoe, Milwaukee, Wis., assignors to Bostrom Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 15, 1949, Serial No. 115,856
9 Claims. (Cl. 155—52)

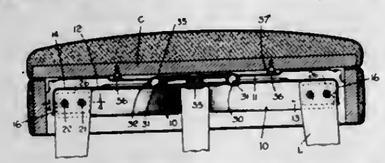


1. In a mounting for a seat for vehicles, a tubular base portion mounted on the vehicle, a seat portion post slidable in the tubular base portion and coacting therewith in forming a dashpot, means mounted on the base portion for controlling the flow of air into and out of the dashpot and at different rates of flow dependent on the direction of movement of the seat portion, and torsion spring means connecting the base and seat portions for restraining movement of the seat portions relative to the base portion.

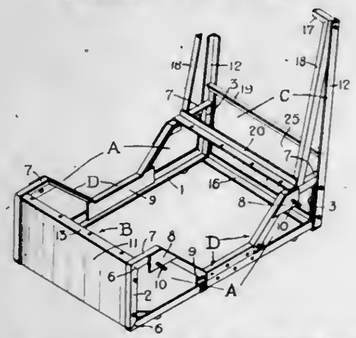
2,641,310
MOUNTING MEMBER FOR FURNITURE AND THE LIKE
Luther G. Simjian, Riverside, Conn., assignor to The Reflectone Corporation, Stamford, Conn., a corporation of Connecticut
Application April 8, 1950, Serial No. 154,791
8 Claims. (Cl. 155—95)

2. In a combination of the class described, a sheet metal base member having a central portion and a series of leg carrying arms extending therefrom, a leg secured to each arm said sheet

metal being resilient to allow flexing of said base member as may be necessary to adjust the legs carried by said arms so that all of the ends of the legs will be in contact with an uneven floor when weight is applied to said base member, a support member carried by said base member, and means extending between said support member and said base member for flexing one or more of said arms relatively to the rest of said base and support members.

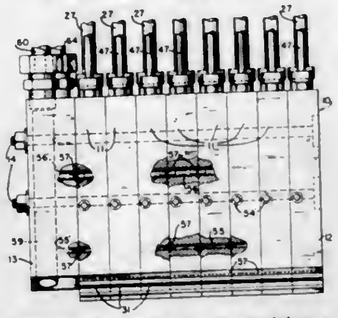


2,641,311
METAL FRAME FOR UPHOLSTERED FURNITURE
George Ingram, Jr., Southend-on-Sea, and Henry Howe, Hockley, England
Application September 1, 1949, Serial No. 113,612
In Great Britain April 6, 1949
4 Claims. (Cl. 155—130)



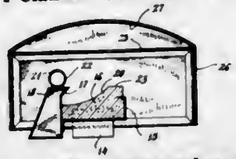
1. The combination in an article of furniture of separately constructed skeleton metal framework units including a seat unit comprising two side frames each composed of a length of L-section metal angle bar forming a base bar, front and rear vertical members, two inwardly extending platform parts and a truncated V-shaped bracing part therebetween forming a well, the base of which is secured to said bar, and also comprising a front frame composed of a continuous length of L-section metal angle bar bent into a rectangular shape by slitting one flange of said bar at each bend, said front frame being secured in the angles of said front vertical members of said side frames, a depressible spring frame mounted on said seat unit with the sides thereof disposed for unimpeded movement above the wells of said side frames, and a backrest frame including a continuous length of L-section metal bar bent into U-shape with the base thereof extending between the said side frames, of which said rear vertical members are secured in the angles of the upstanding limbs of said U-shaped back-rest frame, and also including a second U-shaped frame inverted with respect to said first-mentioned U-shaped frame with the base of said second U-shaped frame spanning the tops of the upstanding legs of said first U-frame and with the legs of said second U-frame extended downwards and inclined forwards to meet and be united with the inwardly directed platform parts at the rear of said side frames.

2,641,312
SECTIONAL BLOCK-TYPE SCARFING TIP
Howard G. Hughey, Fanwood, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application August 23, 1947, Serial No. 770,236
13 Claims. (Cl. 158—27.4)



1. A segmental scarfing tip comprising a block made up of a plurality of individual smaller blocks positioned side by side and each of which has a recess extending across the width of one of its faces the bottom wall of which constitutes a discharge face, the outer edges of the recess being spaced apart a distance equal to less than the transverse dimension of the bottom wall thereof, each individual block also having wholly within itself a row of jet passages extending to said recess and terminating in a row of discharge orifices formed in the bottom wall of the recess, means for distributing scarfing oxygen to all of the jet passages in said row, and means for holding the individual blocks together with their recesses in alignment to form a continuous recess throughout the combined width of all of the blocks, the edges of the recess having a baffling action on the scarfing oxygen jets to convert them into a more sheet-like form.

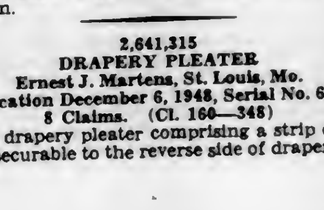
2,641,313
FLUID FUEL-FIRED HEAT RADIATION GENERATOR
Francis M. Crossman, New York, N. Y.
Application August 4, 1949, Serial No. 108,486
4 Claims. (Cl. 158—113)



1. A fluid fuel-fired infra-red radiation generator for use in acting upon material moving exteriorly and relatively to said generator and wherein the material being acted upon will not be subjected to sparks and products of incomplete combustion of the fuel, said generator comprising a casing formed of a first wall of fine mesh wire screen through which infra-red radiations generated in the casing are propagated and a second wall formed of fine mesh wire screen

disposed at an angle to said first wall, said casing having therein the following: a fluid fuel burner, a hearth of refractory material disposed laterally of the burner and having a flame-impinging surface facing said first wall and adapted to generate and propagate through said first wall infra-red radiations when heated by the flame from said burner, and means disposed for blowing a current of air in spaced relation across the flame-impinging surface of said hearth toward and through said second wall to insure complete combustion of the fuel from the burner and to divert the products of combustion of the fuel away from said first wall.

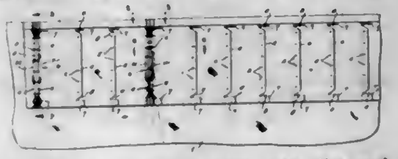
2,641,314
AUTOMATIC CUTOFF VALVE FOR FUEL BURNERS
Boris Douvan, Bayonne, N. J., assignor of one-half to George J. Kupchik, New York, N. Y.
Application January 7, 1950, Serial No. 137,417
10 Claims. (Cl. 158—134)



1. In an automatic cut-off valve for fluid fuel burners, the combination with a valve casing in the conduit through which the fluid fuel is fed to the burner and a manually adjustable rotary valve in said valve casing, of a first rotary element in the form of a disc rigidly secured to said valve and provided with ratchet teeth on at least part of its periphery, a first spring urging said valve to its closed position, a detent arranged to cooperate with the ratchet teeth on said disc to hold said valve in open position, a second rotary element in the form of a cam supported co-axially with and rotatable relatively to said disc and valve, a second spring weaker than said first spring and urging said cam toward an angular position corresponding to that of the disc and valve, said cam having a raised portion for co-operation with said detent when the cam assumes an operative position corresponding to a predetermined opening of the valve so as to release the disc and valve from the detent for return to the closed position of the valve, a delay mechanism operatively associated with said cam to delay movement of the latter from its position corresponding to the closed position of the valve to its operative position for a predetermined initial period after the valve has been opened, a thermostat adapted to be installed adjacent the burner, and means controlled by said thermostat and operative if the thermostat has become heated by the burner flame prior to the end of said initial period and as long as said thermostat is heated to interfere with the movement of one of said rotary elements so as to prevent release of the valve for return to the closed position.

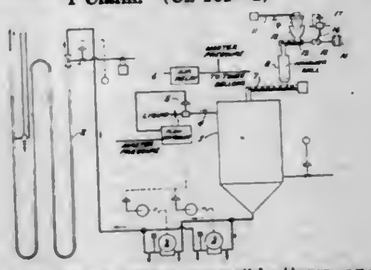
2,641,315
DRAPERY PLEATER
Ernest J. Martens, St. Louis, Mo.
Application December 6, 1948, Serial No. 63,697
8 Claims. (Cl. 160—348)

1. A drapery pleater comprising a strip of material securable to the reverse side of drapery material; a plurality of uniformly spaced outwardly projecting ribs formed in said strip vertically positioned with respect to the drapery material and having a plurality of vertically spaced drapery hook apertures in each of said ribs; and a



tab formed by cutting a notch near the end of each rib and secured to said strip of material for enabling the ribs to project from the strip and for reinforcing the ends of each of the pleats formed in the drapery.

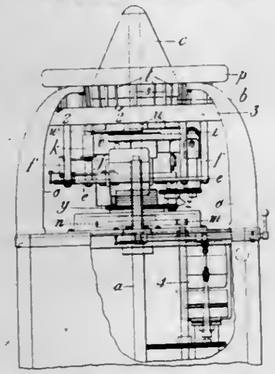
2,641,316
RECURRENT PROCESS CONTROLLER
Eugene H. C. Brown and Irving Lefkowitz, Louisville, Ky., assignors to Joseph E. Seagram & Sons, Inc., Louisville, Ky., a corporation of Indiana
Application February 27, 1950, Serial No. 146,564
1 Claim. (Cl. 161—1)



In combination with a reversible timer, and a cyclically operating apparatus to be controlled: speed control circuits for the apparatus to be controlled having speed increase and speed decrease circuit switches therein; a speed selector relay for selectively operating said switches, one of said switches being common with a holding circuit for the speed selector relay; forward and reverse circuits for said timer including direction selector switches; a direction selector relay for selectively operating said direction selector switches, one of said direction selector switches being common to the holding circuit of the speed selector relay, and the other direction selector switch being common to a holding circuit for the direction selector relay; a relay selector switch for energizing the direction selector relay in one position and the speed selector relay in the other position; limit switch means for the cyclically operating apparatus; positioning means for the relay selector switch including relay energizing and relay releasing switch connected with the limit switch means of the apparatus to be controlled when in one position, said limit switch means being connected to the relay selector switch when said apparatus is in another position; a circuit completing switch for one of the speed control circuit switches; a position operating relay for the circuit completing switch and the relay energizing and relay releasing switches; and limit switches operated by the timer, one of said timer limit switches being in the holding circuit of the direction selector relay, and the other timer limit switch being common to the circuit of said posi-

tion operating relay, the holding circuit of the direction selector relay, one of the speed control switches, and the timer reverse circuit.

2,641,317
MACHINE FOR CUTTING STRIPS OF TEXTILE FABRICS
Ingo Pasold, Toronto, Ontario, Canada
Application August 29, 1950, Serial No. 182,054
In Great Britain May 26, 1950
3 Claims. (Cl. 164—65)



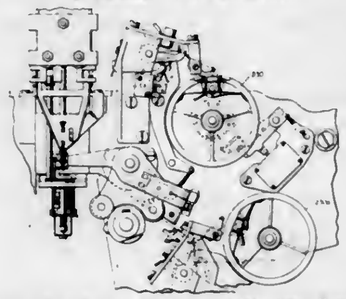
1. In an automatic machine for cutting tubular textile fabric into a helical strip, cylindrical means for supporting an end of the fabric tube, means for feeding the fabric tube axially in relation to said fabric supporting means including a plurality of feeding fingers disposed in close juxtaposition around the periphery of said supporting means, a power driven knife and a guide finger member, said knife and guide finger member being adapted partially to project into a circumferential groove or slot in said fabric supporting means, and power means for rotating said fabric supporting means relatively to said knife and guide finger.

2,641,318
SEALING STRIP SEVERING MACHINE
David Brody, Clinton, Mass., assignor to Van Brode Milling Co., Inc., Clinton, Mass., a corporation of Massachusetts
Application October 24, 1950, Serial No. 191,821
2 Claims. (Cl. 164—84.5)



1. In a sealing strip severing machine of the character described, the combination with a guide-way, of a belt conveyor for advancing a series of boxes connected by a continuous sealing strip along said guide-way, and a stationary transverse bar disposed above said conveyor and extending from side to side of the latter, said bar being triangular in cross section, said cross section including a base disposed parallel to and immediately above the box advancing portion of said belt conveyor, a side joining said base and rising therefrom to the apex of said triangular cross section, and a second side extending from said apex to the opposite end of said base, whereby each box is elevated by said transverse bar in its travel along said guide-way and then permitted by gravity to drop back onto said conveyor for breaking the connection between its sealing strip and that of the box following.

2,641,319
RADIO INDEX PUNCH
Robert B. Herbert and Willis E. Fox, Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 14, 1951, Serial No. 246,678
6 Claims. (Cl. 164—113)

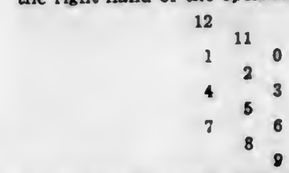


1. In a machine of the class described comprising: a first program control element; a second program control element; a plurality of manually settable devices; each said element bearing a plurality of columns of perforated positions; means for selectively deriving program data from each said element, and including sensing means and circuits controlled thereby for reading out said devices pursuant to the data sensed; a first, second and third set of relay means; a series of normally open labyrinth circuits controlled by said first, second and third relay means; means for selectively closing one of said labyrinth circuits through the energization of one relay of each said first, second and third set, said last-mentioned means controlling said first-mentioned means such that the reading out of said devices are further dependent upon the closing of one of said labyrinth circuits.

2,641,320
COMPOSITE KEYBOARD
Reynold B. Johnson, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 13, 1949, Serial No. 104,462
1 Claim. (Cl. 164—113)

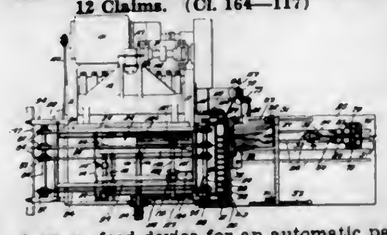


Typewriter key controls wherein the character selecting keys have the same relative location and general aspect as the keys of a standard typewriter keyboard, but upon which the vertical columns of keys are aligned in straight but slanted lines, the angle which said slanted vertical columns of keys makes with the horizontal rows of keys being 70° and equal to that angular relationship between the columns and rows of digit keys on a standard tabulating card key punch keyboard, a group of twelve of said typewriter character keys being further designated as representative of duodecimal numbers and arranged as shown here under the most effective position of the right hand of the operator,



said twelve keys being provided for dual use for key punch control by the standard key punch touch system as well as by operation in the typewriter touch system, a visually differentiated frame behind said twelve keys to emphasize their dual purpose, a shift key, electrical alphabet recording and numeral key punch control devices operated by said character keys, and electrical means under control of said shift key for selectively connecting said character keys to said key punch number recording control devices for control over electrical key punch operation alternatively with control over alphabetic recording control, whereby a tabulator card punch may be operated in accordance with key punch touch control on typewriter keys.

2,641,321
AUTOMATIC PAPER PUNCHING MACHINE
Charles C. Crusan, Salt Point, N. Y., assignor to Wire-O Corporation, Poughkeepsie, N. Y., a corporation of New York
Application April 14, 1948, Serial No. 20,878
12 Claims. (Cl. 164—117)



1. A paper feed device for an automatic paper punching machine having a punch for perforating a lift of sheets and comprising feed tapes running across the front of said punch, means for supporting a stack of sheets at the entrance end of said feed tapes, means for separating, feeding out and delivering a lift of sheets from the bottom of the stack to said feed tapes, an end stop for stopping a lift of sheets advanced by said feed tapes in line with the punch, means for feeding a stopped lift of sheets laterally of the feed tapes into the punch and means for shifting the stop clear of a lift perforated by the punch.

2,641,322
WELL FLUID STABILIZER
Arlis C. Hartsell, El Campo, Tex.
Application June 4, 1949, Serial No. 97,278
4 Claims. (Cl. 166—12)

1. A stabilizer of the character described comprising, an elongated tubular supporting body adapted to enter a string of pipe in a well, a yieldable plunger around, and supported on, said body adapted to fit into said pipe and expansible into sealing engagement with the pipe by the upward pressure of fluid in the pipe beneath the plunger to support the body in the pipe, a back-pressure valve on the body, closing the body against upward flow of fluid therethrough, pipe-engaging means slideably mounted on the body and moveable into and out of engagement with the pipe, actuating means on the body in engagement with the pipe-engaging means and movable with the body upon upward movement of the body relative to the pipe-engaging means to move the pipe-



engaging means into engagement with the pipe to anchor the body in the pipe, and means connected to the pipe-engaging means in position to abuttingly engage an end of a section of pipe in said string to limit upward movement of said pipe-engaging means upon upward movement of said body relative to said pipe upon an increase in said upward pressure and yieldingly engageable with said pipe to support said pipe-engaging means on the body at a point wherein said pipe engaging means are out of engagement with the pipe upon downward movement of said body relative to the pipe.

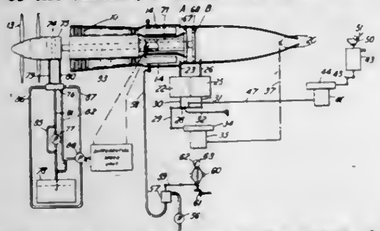
2,641,323
HELIUM AND MIXTURES THEREOF WITH CARBON DIOXIDE AS FIRE EXTINGUISHANTS
Richard L. Tuve, Silver Spring, Md.
No Drawing. Application March 10, 1948, Serial No. 14,141
6 Claims. (Cl. 169—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method of extinguishing a fire in tightly packed combustible material comprising introducing helium gas thereto and permitting the same to diffuse through the material and extinguish the fire.

2,641,324
REGULATING MEANS FOR GAS TURBINE INSTALLATIONS
Peter Fortescue, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application August 2, 1944, Serial No. 547,759
In Great Britain February 19, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 19, 1963
13 Claims. (Cl. 170—135.71)

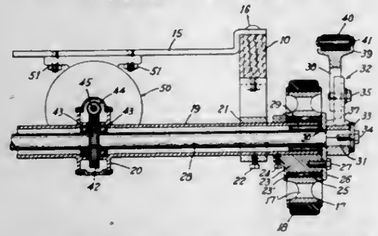
5. A power plant for a propeller-driven aircraft comprising a gas turbine having a pair of

independent rotors through which the working fluid passes in series, a combustion chamber for producing the working fluid for the gas turbine, an air compressor driven by one rotor of the gas turbine and supplying combustion air to said combustion chamber, a hydraulically operated variable-pitch propeller driven by the other rotor of the turbine, a differential speed unit one



member of which is driven at the speed of one rotor and another member of which is driven at the speed of the other rotor, a hydraulic pump driven by the differential speed unit and valve means actuated by the pressure fluid delivered by said pump, said valve means regulating the admission and discharge of pressure fluid to and from the hydraulic pitch-change mechanism of the propeller.

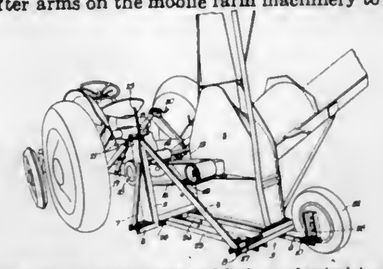
2,641,325
STAIR LIFT HAND TRUCK
George L. Hoffman and Simon J. Petersen, Miami, Fla.
Application June 5, 1950, Serial No. 166,186
3 Claims. (Cl. 180—8)



1. In a hand truck having a frame and a pair of wheels at its front end, a hollow axle supporting said wheels, means eccentrically journaling said axle, a pivot shaft within said axle and projecting beyond said wheels, means for adjusting the eccentric means rotatively on said axle to adjust the height of said pivot shaft according to the height of the risers of a stairway, lifting arms fixed on the outer ends of said shaft and extending radially beyond the outer peripheries of said wheels, and power means on said truck frame operatively connected with said shaft for rotating said lifting arms relative to said wheels to lift the truck from one step to another of said stairway, the truck wheels alternately supporting the truck on each stair tread while the arms are rotating to the next adjacent stair tread.

2,641,326
PORTABLE FEED GRINDER CARRIER
Le Roy Carlson, Griswold, Iowa
Application August 8, 1950, Serial No. 178,324
1 Claim. (Cl. 180—14)

A portable grinder carrier comprising a frame adapted to be attached for movement therewith to a piece of mobile farm machinery and adapted to receive a grinder thereon, said carrier frame having a bed to receive thereon the grinder, wheel standards supported on the ends of said bed and projecting upwardly therefrom and forming journals for mounting a vertically adjustable wheel, a front base cross channel member, upright frame members supported on the front base of the carrier and carrying pins for attaching the frame to the mobile farm machinery and cooperative with lifter arms on the mobile farm machinery to keep



the grinder level, said bed being adapted to position the grinder whereby it may be driven by a belt from the mobile farm machinery, and means for applying tension to the belt drive comprising journal blocks slidably mounted for vertical movement between the upright members, a bar intermediate the journal blocks and having a drum longitudinally slidable thereon for engagement with the belt from the farm machinery to the grinder.

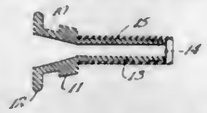
2,641,327
ACOUSTIC EAR PENDANT
Donald F. Balmer, East River, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application October 13, 1950, Serial No. 189,927
2 Claims. (Cl. 181—23)



1. An acoustical ear pendant comprising a hollow flat curved planar member conforming substantially to the shape of a question mark, the upper section of which is adapted to lie behind the upper part of the listener's ear and is provided with an enlarged downwardly and inwardly extending flat portion lying in front of the concha of said ear, and a depending lower section positioned behind the ear lobe, said member having an internal channel extending throughout its length and gradually increasing in size from said lower section to said downwardly and inwardly extending portion, the latter of which has an elongated narrow vertical slot for communicating sounds from said channel to the concha of the listener's ear, said lower section having an opening for the insertion of a flexible sound receiving tubular conduit.

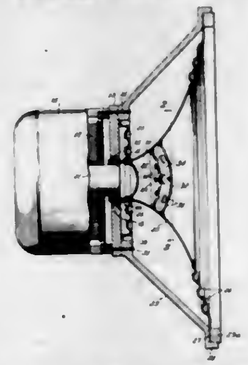
2,641,328
MECHANICAL HEARING AID
John R. Beaudry, Minneapolis, Minn.
Application July 26, 1948, Serial No. 40,738
1 Claim. (Cl. 181—23)

A mechanical hearing aid device comprising a tubular sound transmitting member constructed of somewhat resilient and yieldable plastic and of an external diameter throughout the inner portion thereof for fitting into a human ear canal, the outer end of said integral member flaring for reception of sound and having a terminal collar of greater diameter than the entrance of a human ear canal to act as an abutment to limit inward positioning of the device, and said outer portion of said member having a yielding annular flange secured inwardly in spaced relation to the outer end of said member and of a diameter to engage with and seal with said ear canal leaving at least the greater portion of the inner end of said tubular member



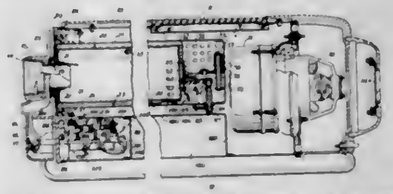
spaced with relation to said canal, a sound-responsive vibrator element constructed of extremely thin animal tissue extending completely across the inner end of said tubular member and having a cylindrically flanged portion surrounding the inner end of said tubular member, and a combined diaphragm-retaining and guard member in the form of a somewhat flexible and resilient tube closely surrounding the inner end of said first mentioned member and stretching said diaphragm tightly over the inner end of said first mentioned member, said last mentioned tube extending for some distance inwardly and beyond said diaphragm to protect said diaphragm against wax deposits from the human ear.

2,641,329
LOUD-SPEAKER DIAPHRAGM WITH TRANSVERSELY ARCHED STIFFENER MEANS
Sidney E. Levy, White Plains, and Abraham B. Cohen, Bronx, N. Y., assignors to University Loudspeakers, Inc., White Plains, N. Y., a corporation of New York
Application May 29, 1950, Serial No. 164,892
5 Claims. (Cl. 181—32)



1. An acoustic diaphragm for loud speakers, comprising an acoustical energy-responsive diaphragm member of substantially conical form having a relatively rigid transversely arched stiffener member secured at its outer marginal edge to an intermediate portion of the diaphragm member and extending across the latter, said stiffener member having a plurality of relatively small sound-radiating perforations therethrough, the perforations of said stiffener member being spaced from each other and each perforation having its axis inclined at an angle to the central axis of the diaphragm member, and the perforated stiffener member having the property of directional control of high frequency propagation generated from the center of the diaphragm member.

2,641,330
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Robert C. Lampe, Stamford, and John T. Ferraris, Cos Cob, Conn., assignors to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application January 25, 1950, Serial No. 140,394
22 Claims. (Cl. 183—37)



1. In a vacuum cleaner, the combination comprising a casing formed with an opening, a dust bag removable from said casing through said opening, a cover member for said opening, an inlet conduit having its inner end communicating with the interior of said bag, means for inducing flow of air through said conduit into said bag, and a control member movable to open said cover in response to variations in the differential of the air pressure existing in said conduit at a point spaced outwardly from its inner end and the air pressure existing in said casing between said bag and said flow producing means.

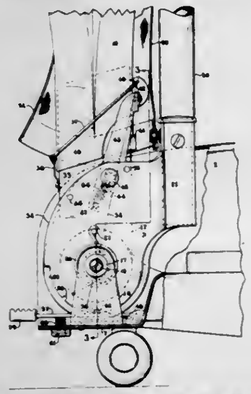
2,641,331
FLUE FOR DEEP-FRYING EQUIPMENT
Harold L. Hudson, Toledo, Ohio
Application March 20, 1950, Serial No. 150,743
1 Claim. (Cl. 183—51)



In a ventilating flue for deep frying equipment wherein said flue has an inlet for receiving the cooking vapors from the frying equipment, a substantially horizontal duct therefrom provided with an outlet remote from the inlet, a unit for filtering and condensing portions of said vapors flowing through said duct comprising a frame having an L-shaped cross-section, one side of which provides a collar extending into said inlet from the horizontal duct, the other side providing a seat in said horizontal duct about said inlet, a pair of opposing strap elements angularly extending upwardly from opposite portions of said seat, a first expanded metal sheet in said seat forming a cover for said inlet, said sheet including vanes directed to cause the flow of vapors therefrom in a direction away from said outlet, an auxiliary frame seated on said straps in an angular posi-

tion above said first expanded metal sheet, and a second expanded metal sheet carried by said auxiliary frame, said second expanded metal sheet including vanes directed substantially vertically above said first expanded sheet.

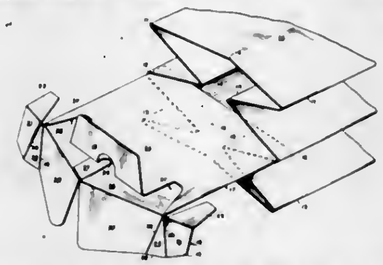
2,641,332
FILTER MOUNTING FOR SUCTION CLEANERS
Grover G. Hawk, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 29, 1951, Serial No. 234,220
13 Claims. (Cl. 183—51)



1. In a suction cleaning apparatus, a body portion having an exhaust duct, a propelling handle pivotally attached to said body portion, a filter mounting conduit communicating with said exhaust duct, means mounting said conduit on said body portion for arcuate movement with respect thereto, a spring wire filter clamp pivotally mounted on said conduit, said filter clamp being larger than said conduit and shaped to be drawn tightly around said conduit at an angle to the axis thereof, a securing member mounted on said handle for arcuate and sliding movement with respect thereto and pivotally attached to said filter clamp, and spring means biasing said securing member for sliding movement in a direction to engage said clamping means.

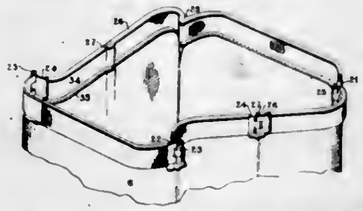
2,641,333
SUCTION CLEANER
William H. Woessner, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 18, 1951, Serial No. 221,666
24 Claims. (Cl. 183—51)

1. The method of making a filter bag comprising the steps of, stamping a blank from paper impregnated with a heat sealable cement, said blank being straight at one end and having reenforcing extensions connected to its other end by fold lines, folding said blank into the form of a flat sleeve with reenforcing extensions extending from each flat side thereof, inserting the straight end of said sleeve between opposed folds of a tube of filter material having accordion-like folds extending inwardly from its opposed sides and two unfolded sides with the edges of said sleeve lying between the apices of the opposed folds, folding said reenforcing extensions across the ends of said folds to lie against the opposed unfolded sides of said tube and applying heat to the inner surface of said sleeve and to the outer surface of said extensions to bond said



sleeve to the inner surface of said folds and to bond said extension to the outer surface of the unfolded sides of said tube.

2,641,334
SUCTION CLEANER FILTER
Melvin H. Ripple, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 5, 1951, Serial No. 235,257
11 Claims. (Cl. 183—51)

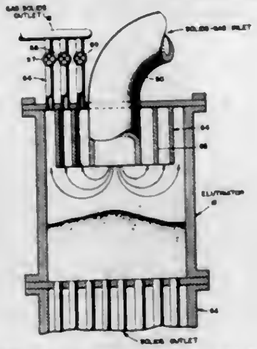


1. A suction cleaning apparatus having an exhaust duct communicating with an exhaust and filter mounting conduit, a tubular filter member closed at one end and having an open end forming an air inlet and emptying mouth, a frame secured to the mouth of said filter member and comprising a pair of opposed principal members shaped to engage about said exhaust conduit with their corresponding ends in abutting relation, a hinge leaf member hingedly joined to each end of each of said principal members, and means hingedly joining the hinge leaf members joined to corresponding ends of said principal members, each pair of said hingedly joined hinge leaf members being shaped to fold together against the outer face of one of said principal members.

2,641,335
GAS-SOLID SEPARATOR
Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application January 12, 1946, Serial No. 640,979
1 Claim. (Cl. 183—106)

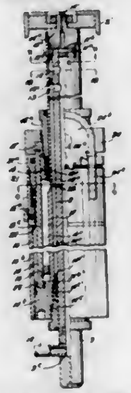
An apparatus for the continuous elutriation of granular solids which comprises a chamber provided with inlet means projecting thereinto through the middle of the upper end thereof, a plurality of concentric baffles located in the annular space between said inlet means and the walls of said chamber and extending downward from the upper end of said chamber approxi-

mately the same distance as said inlet means, outlet means for granular solids at the lower end of said chamber, and outlet means for gas at



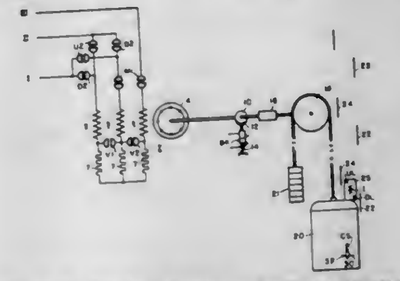
the upper end of each concentric annular space formed by said baffles, said walls and said inlet means.

2,641,336
INDUSTRIAL TRUCK
Clarence W. Chanda, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio
Application January 10, 1952, Serial No. 265,834
6 Claims. (Cl. 187—9)



5. A truck having, in combination, main upright guides mounted on the truck frame, secondary guides slidably mounted on said main guides, said guides terminating at their upper ends at a predetermined height, a support slidably mounted on said secondary guides and provided with a load carrier, and a fluid operated mechansim for raising said support the full length of said secondary guides and thereafter raise said support and secondary guides relative to said main guides, said mechanism consisting of a vertically disposed tubular member mounted on said truck frame and closed by a wall at its upper end, inner, outer and intermediate cylinders surrounding said member, said inner cylinder being closed by a wall at its upper end and connected at its upper end to said secondary guides and at its lower end to the adjacent end of the outer cylinder, whereby said inner and outer cylinders are movable endwise as a unit on said tubular member, a collar mounted within said intermediate cylinder adjacent its upper end, said intermediate cylinder extending upwardly beyond the upper end of said outer cylinder and operatively connected with said support, said member at its upper portion being formed with a fluid flow port to provide communication with the space between said member and said inner cylinder and said inner cylinder being provided with a fluid flow port to provide communication with the space between said inner cylinder and said intermediate cylinder, a source of supply of fluid under pressure having a valve controlled connection with said tubular member for supplying fluid thereto for flow through said member and through said ports, the supplied pressure on said collar serving to initially move said intermediate cylinder upwardly and move said support the full length of said secondary guides independently thereof and thereafter the supplied pressure on the end wall for said inner cylinder and said collar serving to move all of said cylinders and said secondary guides upwardly relative to said main guides.

2,641,337
ELEVATOR CONTROL SYSTEM
Alvin O. Lund, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1951, Serial No. 206,407
10 Claims. (Cl. 187—29)

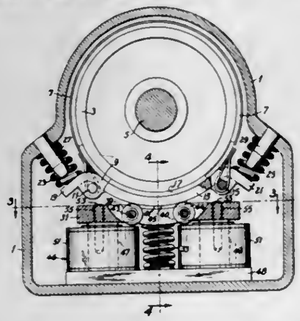


10. In an elevator system including a car serving a plurality of floors, an electric motor for moving said car, and an electrically controlled brake for said motor, means for stopping said car at a selected floor comprising relay means operable at a fixed distance from said floor for deenergizing said motor and applying said brake to stop the car level with the floor under one load condition on said motor, and means responsive to lighter load conditions on said motor for deenergizing said motor and applying said brake at inversely proportionally greater distances from said floor.

2,641,338
BAND BRAKE
Howard J. Findley, Lyndhurst, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 20, 1950, Serial No. 139,724
8 Claims. (Cl. 188—137)

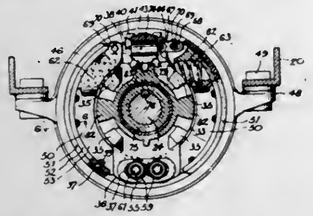
2. A brake comprising a rotary brake drum, a fixed anchoring member, a brake band coiled around the drum, friction shoes at the ends of the band engageable with the drum, means resiliently anchoring one shoe to the anchoring member against rotation in one direction, said direction being that in which the band extends from

said one shoe toward the other, but permitting limited rotation of said one shoe with the drum in the opposite direction, means anchoring the other shoe to the anchoring member against rotation in said opposite direction but permitting limited rotation of said other shoe in said one direction, the shoes being located side-by-side spaced apart axially of the drum by the



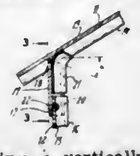
intervening convolutions of the band, and having arcuate outer faces, a magnetic armature spring-biased against the shoes and having rollers engaging their outer arcuate faces, and an electromagnet acting on the armature to retract it against its bias, the armature being biased against the shoes by a compression spring acting against the outer side of the armature and positioned closer to one shoe than to the other.

2,641,339
BRAKE CONSTRUCTION
Hilbert E. Swanson, Milwaukee, Wis., assignor to Unit Crane & Shovel Corp., West Allis, Wis., a corporation of Delaware
Application March 18, 1948, Serial No. 15,680
7 Claims. (Cl. 188—166)



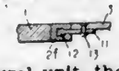
2. In a friction device, an outer member having an inner cylindrical friction face, a carrier, a pair of opposed friction shoes movably mounted on said carrier and arranged within said outer member, said outer member and said shoe carrier being relatively rotatable, there being respective spaces between said shoes and said friction face, arcuate friction linings laterally insertible into said spaces and laterally removable therefrom, said linings being normally carried by said respective shoes and adapted to engage said friction face, detachable securing means for anchoring said linings to said shoes, means for normally urging the lined shoes against said friction face, and means for releasing said shoes including a rock shaft having a transverse tool-receiving bore for holding said shoes in released position to permit lateral insertion and withdrawal of said linings into and out of said spaces.

2,641,340
FLASHING FOR CORRUGATED BUILDINGS
Orville A. Howe, South Affton, Mo.
Application August 13, 1949, Serial No. 110,045
3 Claims. (Cl. 189—1)



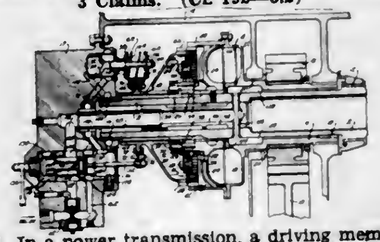
1. In a building, a vertically corrugated wall element, and a corrugated sloping roof overhanging the wall element and corrugated to the same pitch and depth as the wall element, the crests of the roof corrugations being aligned with the outward-extending crests of the wall element corrugations, the wall element terminating in a wavy upper margin nesting against the corrugated under-surface of the roof and lying entirely in a plane inclined from the horizontal oppositely to the slope of the roof at an angle equal to 45° minus half the slope of the roof.

2,641,341
GLAZING
Robert Touvay, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Paris, France
Application March 27, 1945, Serial No. 585,175
In France April 18, 1944
4 Claims. (Cl. 189—77)



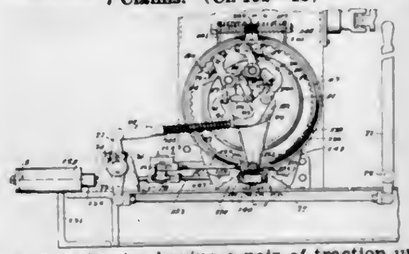
1. In a structural unit, the combination of a supporting frame provided with an opening of predetermined dimensions and area, a full vision transparent pane of glass shaped to dimensions and area to coincide with and fit in said opening with the opposing surfaces of said pane unobscured by said supporting frame thereby maintaining the transparent pane of glass free for total visibility, a connector affixed to the edge portion only of the pane without deformation thereof and lying within the plane of the opposite surfaces of the pane and extending outwardly therefrom for engagement with the supporting frame and means for maintaining engagement of the connector and the supporting frame.

2,641,342
FLUID COUPLING AND CLUTCH
John S. Hasbrouck, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 28, 1950, Serial No. 152,368
3 Claims. (Cl. 192—3.2)



1. In a power transmission, a driving member, a driven member, a fluid coupling for connecting said members, a mechanical connection including intermeshing gears for connecting said members in parallel relation to the fluid coupling, one of said gears being movable into and out of mesh with the other gear, lock-out means to prevent meshing of the gears when the coupling is transmitting torque, spring means rendering said lock-out inoperative when substantially no torque is transmitted by the coupling, hydraulically actuated means for moving said movable gear into operative position, valve means for admitting fluid to said coupling and to said hydraulically actuated means, and a time delay device between said valve and said hydraulically actuated means to delay the actuation of said means until the coupling is in operation, said time delay device including a resiliently closed valve between the first valve and the hydraulically actuated means and controlling the flow of pressure fluid to the hydraulically actuated means, said valve being openable by pressure only when the coupling has been filled.

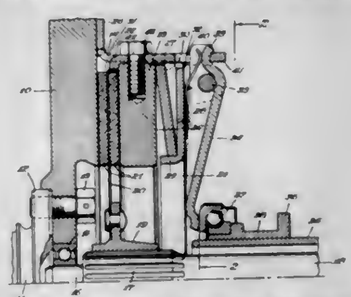
2,641,343
STEERING AND BRAKING MECHANISM FOR TRENCHERS
Robert N. Bennett, McComb, Ohio, assignor, by mesne assignments, to Gar Wood Industries, Inc., a corporation of Michigan
Application November 2, 1946, Serial No. 707,399
7 Claims. (Cl. 192—13)



1. In a tractor having a pair of traction units and a steering clutch and brake for each unit, operating mechanism for each steering brake and clutch comprising a booster drum adjacent the clutch, a clutch release member rotatable with the clutch and disposed adjacent said booster drum, each clutch release member being shiftable axially to release the adjacent clutch, means providing a connection between said clutch release member and the adjacent booster drum for causing said drum to rotate therewith and including cam means so that a drag imposed upon said booster drum causes clutch releasing movement of said release member, a booster drum brake for imposing a drag on said booster drum, a rotatable carrier adjacent said booster drum, booster drum brake operating mechanism on said carrier whereby application of said booster drum brake imparts movement to said carrier, and link and lever mechanism operatively connecting said carrier to the respective steering brake thereby to apply same in response to such carrier movement.

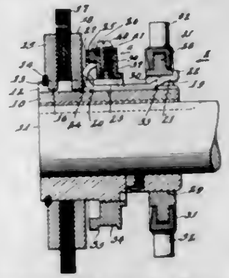
2,641,344
CLUTCH CONSTRUCTION
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill.
Application March 28, 1947, Serial No. 737,896
3 Claims. (Cl. 192—68)

1. A friction clutch for mounting on a flywheel having an annular rear friction face, comprising: a clutch disk having front and rear friction faces, the front face being adapted for engagement with the friction face of the flywheel; a pressure plate having front and rear friction faces, each of which is of a diameter greater than the rear friction face of the clutch disk, said pressure plate being constructed and arranged for interchangeable positioning with either face thereof engageable with the rear face of the clutch disk; a cover having portions for mounting on the flywheel and a portion substantially enclosing the pressure plate and clutch disk; spring-centering means on a front portion of the cover coaxial with



the pressure plate; spring means for urging the pressure plate forwardly against the clutch disk and including an annular concavo-convex element having its inner peripheral portion seated on the centering means of the cover and its outer peripheral portion seating on the pressure plate, the outer diameter of the concavo-convex element being greater than the diameter of the clutch disk, whereby, when the pressure plate is reversed to present its rear face to the clutch disk, the results of wear thereof incident to contact with the concavo-convex element will be radially beyond the friction face thereof.

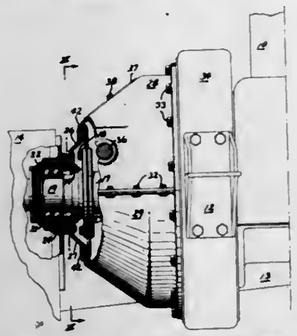
2,641,345
ADJUSTABLE CAM OPERATED CLUTCH
Henry J. Dunkelow, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application February 15, 1949, Serial No. 76,523
9 Claims. (Cl. 192—69)



1. In a clutch, the combination of a friction plate, a clamping plate arranged to engage the friction plate, a hub to which the clamping plate is connected for rotation therewith and for axial movement relative thereto and having depressions disposed around the periphery thereof, an adjusting ring mounted on the hub, clutch levers in the depressions each comprising a strip shaped as a hook at one end between the ring and the

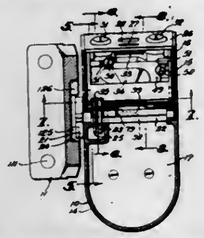
clamping plate, and means movable on the hub away from the ring for actuating the opposite ends of the levers to press the plates into engagement, the ends of the hooks fulcruming against the ring and the bights of the hooks pressing against the clamping plate.

2,641,346
FLEXIBLE CLUTCH ENCLOSURE
Norman E. Risk and Charles A. Ramsel, Peoria, Ill., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application April 3, 1951, Serial No. 219,036
2 Claims. (Cl. 192—112)



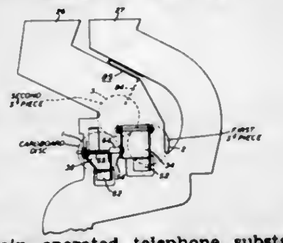
1. An enclosure for a clutch employed between an internal combustion engine and a transmission case of an automotive type vehicle comprising, a pair of housing segments detachably secured to each other, a second pair of housing segments detachably secured to each other, means for supporting each pair of housing segments independently of the other pair in spaced relationship thereto, and flexible means for sealing the space between said first and second pairs of housing segments.

2,641,347
COIN CONTROL LOCK MECHANISM
William W. Dennin, Long Beach, Calif., assignor to Denmil Supply Company, Los Angeles, Calif., a corporation of California
Application April 9, 1948, Serial No. 19,933
21 Claims. (Cl. 194—65)



1. A coin controlled door lock comprising a housing and a keeper to be mounted separately one to a door and the other to an adjacent support, a rotary bolt carried by the housing for 360 degree rotation and adapted to engage the keeper and rotate in a first latching direction upon closing of the door, said bolt being rotatable by said keeper in a reverse antilatching direction upon opening of the door, holding means movable between an active position in which it holds the bolt to a limited antilatching rotation insufficient to disengage the bolt and keeper and a released position permitting said disengagement, and means conditioned by reception of a coin and operable to release said holding means in response to said limited antilatching rotation of the bolt.

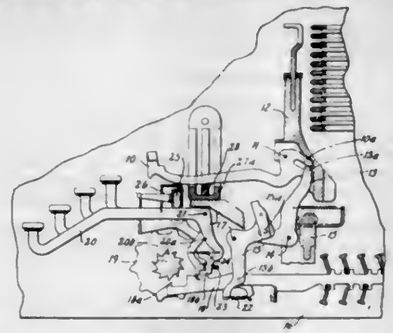
2,641,348
FRAUD PREVENTION DEVICE
Richard K. Thompson, Jr., Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1950, Serial No. 199,445
1 Claim. (Cl. 194—103)



In a coin operated telephone substation, a housing, a coin gauge on said housing for the reception of coins, coin chutes in said housing communicating with said coin gauge at their upper ends and having their lower ends in juxtaposition with respect to a coin receiving hopper, means in said coin chutes for restraining coins traveling therein and operable to release upon deposit of two coins, and means for preventing operation of said restraining means by the combination of a legitimate coin and an object of less weight than such coin comprising a resilient spring member, of substantially U-shaped configuration, and having an extending finger thereon, positioned adjacent one of said chutes, said finger extending partway across said chute to provide a barrier between said gauge and said restraining means, said finger being stiff enough to stop an object of less weight than a legitimate coin but flexible enough to permit the passage of a legitimate coin, thereby preventing the release of the coin restraining means by said object, whereby a coin deposited after said object will deflect said finger and permit said coin to come to rest against said coin restraining means and a second deposited coin will engage said first coin, rebound therefrom, strike said object and cause the release of said coin restraining means, thereby permitting said object and said coins to pass through said coin chute.

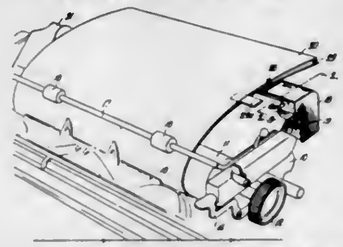
2,641,349
REBOUND PREVENTING TYPE BAR REST FOR TYPEWRITING MACHINES
Harold J. Kistner, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 27, 1950, Serial No. 158,525
7 Claims. (Cl. 197—42)

1. In a typewriting machine having a cylindrical array of type bars pivoted at their ends for a swinging movement inwardly from a rest position toward the axis of cylindricity to a printing position, rebound preventing means comprising a channel shaped permanent magnet disposed with its axis of cylindricity parallel with the axis of cylindricity of the type bars



intermediate the ends of the latter and normally holding said type bars in their rest position.

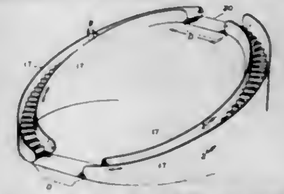
2,641,350
PAGE END SIGNALING DEVICE FOR TYPEWRITERS
Harley A. Ault, Daytona Beach, Fla., assignor of one-half to Lloyd B. Campbell, San Francisco, Calif.
Application May 20, 1950, Serial No. 163,306
9 Claims. (Cl. 197—189)



1. In a typewriting machine having a traveling carriage, a page end signaling device operable by a tab affixed at a predetermined location at the marginal edge of a carbon or backing sheet comprising an audible signaling means attached to the rear of the traveling carriage, a clapper adjacent said signaling means mounted for free movement toward and from said signaling means under the influence of changes in momentum occurring during the sidewise shifting of the carriage, and a pivoted lever operably associated with the clapper and positioned in the path of the marginal tab whereby movement of the lever by the tab with the passage of the paper sheet through the machine transposes the relationship of the signaling means and clapper from one of inoperability to operability.

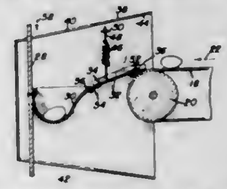
2,641,351
MOVING STAIRWAY
Richard C. Riley, Lake Grove, Oreg.
Application June 12, 1950, Serial No. 167,549
5 Claims. (Cl. 198—16)

5. An endless escalator having in series an ascending passenger carrying flight and a descending passenger carrying flight, comprising steps each including a tread, risers on opposite sides of said tread, and rack sections at opposite ends of said tread having teeth projecting toward the tread side of the step, means interconnecting said steps and effecting conjoint movement thereof, a floor section overlying a portion of the path of said steps, and drive means including a plurality of parallel shafts interposed between said floor section and a corresponding plurality of steps, inclined relative to the treads of such steps



and each shaft carrying a larger gear meshing with one of said rack sections on a step adjacent to the end of the tread of such step spaced farther from said shaft and a smaller gear meshing with the rack section adjacent to the end of said tread closer to said shaft, and power means operable to rotate all said shafts simultaneously for rotating said gears to drive a plurality of steps.

2,641,352
AUTOMATIC EGG COLLECTING SYSTEM
T. Burr Charles and Russell E. Skelton, Durham, N. H.
Application July 8, 1949, Serial No. 103,694
3 Claims. (Cl. 198—27)



1. An egg collector comprising horizontal collecting conveyor means for collecting eggs from a row of nests, a horizontal delivery conveyor means vertically spaced from said collecting conveyor means, a vertical conveyor for transporting eggs from said collecting conveyor means to said delivery conveyor means, receptacles on said vertical conveyor means, a delivery chute mounted for pivotal movement, means operated by a receptacle for pivoting said chute to a lowered position connecting the collecting conveyor means and a receptacle, a housing through which said vertical conveyor moves and into which one end of said horizontal collecting conveyor extends, said chute being pivotally supported by said housing.

2,641,353
CONVEYER SYSTEM, INCLUDING A STACKER, TRAILING CONVEYER, AND BELT LIFTING FEED HOPPER
Gust Weggum, Nashwauk, Minn., assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application March 10, 1949, Serial No. 80,695. Divided and this application February 1, 1950, Serial No. 141,632
1 Claim. (Cl. 198—36)

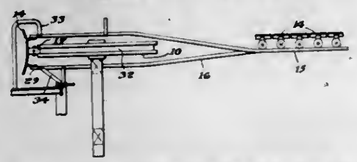
A conveyer system comprising, in combination, a stacker, a trailing conveyer attached thereto

and including an endless belt supported on idlers for feeding material to said stacker and movable rectilinearly as said stacker moves forward, and a feed hopper for said trailing conveyer mounted for independent longitudinal movement relative



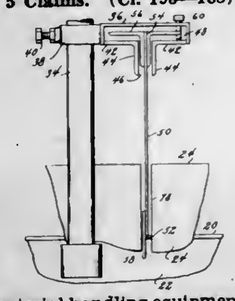
to said trailing conveyer, said feed hopper including means for lifting said belt from said idlers and having cushioning idlers for supporting the belt while the belt is receiving material from the feed hopper.

2,641,354
BANKED CONVEYER
Webb Kingsbury, Dumont, N. J., assignor to United Fruit Company, Boston, Mass., a corporation of New Jersey
Application June 1, 1949, Serial No. 96,567
7 Claims. (Cl. 198—182)



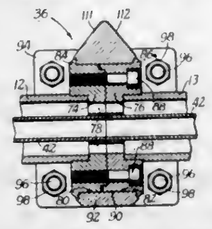
1. In a conveyor system having a straight horizontal section and a contiguous horizontal turn-around section, a train of closely spaced interconnected wheeled trucks adapted to be driven along said straight section and around said turn-around section, said trucks being tiltable transversely of the path of their movement, a two-railed trackway following the course of the system and serving to support said trucks through the wheels associated therewith, said trackway gradually banking outwardly as it approaches said turn-around section and gradually returning to an unbanked state as it leaves said turn-around section, the angle of the banking around the turn-around section being substantially 90°.

2,641,355
BELT UNLOADER FOR CONTROL OF MATERIAL FLOW
Harold Louis Hudson, Ottawa Lake, Mich.
Application March 16, 1949, Serial No. 81,780
5 Claims. (Cl. 198—188)



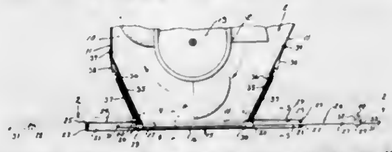
1. In a material handling equipment, an endless belt conveyor having its load carrying reach traveling along a substantially horizontal plane, a vertically disposed transverse blade resting by gravity on said conveyor, means for adjusting said blade transversely across said conveyor, and guide means for the transverse adjustment extending along the upper edge of said blade loosely confining said upper edge therein and preventing said blade from rocking out of the vertical beyond predetermined limits.

2,641,356
CENTER SCROLL BEARING
Henry M. Hunter, Brooklyn, N. Y., and Carrel C. Bryant, Caldwell, N. J., assignors, by mesne assignments, to General American Transportation Corporation, Chicago, Ill., a corporation of New York
Application November 12, 1947, Serial No. 785,251
5 Claims. (Cl. 198—217)



1. In continuous filtering apparatus of the type wherein a substance is removed from the surface of a rotatable cylindrical filter and falls into a vat having a discharge connection toward which the substance is moved by a pair of axially aligned screw conveyers mounted in said vat, a bearing assembly for supporting said conveyers at adjacent ends thereof, comprising in combination, a first flange fixed to the adjacent end of one of the said conveyers and having a peripheral bearing surface, a second flange fixed to the adjacent end of the other of said conveyers and having a peripheral bearing surface, fastening means for holding said two flanges together, a bearing bracket mounted on a side wall of said vat and a bearing fixed to said bracket and having a bearing surface cooperating with the peripheral bearing surfaces of said flanges rotatably to support said conveyers, the top of said bearing and the adjacent portions of said bracket being tapered upwardly and inwardly to form sloping surfaces that shed said substance as it falls into said vat from said surface of said cylinder.

2,641,357
DEVICE FOR CLEANING OUT THE BOTTOMS OF GRAIN ELEVATORS
Lester Jones, Canton, Ill., assignor to Pabst Brewing Company, Milwaukee, Wis., a corporation
Application December 5, 1951, Serial No. 260,005
10 Claims. (Cl. 198—231)



1. In an elevator having a boot and an endless conveyor movable therethrough; a pan attached to the bottom of the boot in spaced relation to the conveyor having its opposite ends open, and

a pusher member slidably associated with the pan including equidistantly spaced end closure blocks and an intermediate combined scraper and closure block, said pusher member being operable from either side of the boot for moving the intermediate scraper and closure block over the upper surface of the pan from one open end of the pan to the other open end of the pan to form a closure for said last mentioned open end, one of said end closure blocks forming a closure for the other open end of the pan.

2,641,358
RAZOR BLADE DISPENSER
Dominick C. Santo, Bristol, R. I., assignor of one-half to Worcester Moulded Plastics Company, Worcester, Mass., a corporation of Massachusetts
Application March 14, 1950, Serial No. 149,602
5 Claims. (Cl. 206—16)



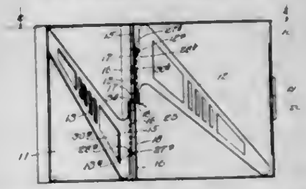
1. A razor blade dispenser for a rigid non-flexible razor blade comprising a generally rectangular container having a top, a bottom, and side, front and rear walls, a dispensing slot in one wall adjacent the top of the container, a used blade receiving slot in the rear wall adjacent the bottom of the container, said slot being in alignment with the front wall to permit a rigid razor blade to be inserted in parallel relation to said bottom, spring means in said container for pushing successive new blades toward the top of the container and for retaining used blades at the bottom of the container, means for slidably ejecting the topmost new blade from said container through said dispensing slot, and means for permanently retaining used blades in said container after they have been inserted through the used blade receiving slot, said retaining means comprising a raised portion extending upwardly from the bottom of the container and extending lengthwise from a point adjacent the lower portion of said rear wall to a point intermediate the front and rear walls, said raised portion supporting the used blades away from the bottom at one point and said spring means depressing said blades to the bottom at a point intermediate the inner end of said raised portion and said front wall to cause an inclination of the used blades out of alignment with the used blade receiving slot.

2,641,359
AUTOMOBILE ACCESSORY
Joseph N. Garofalo, Plainfield, N. J.
Application August 3, 1951, Serial No. 240,247
2 Claims. (Cl. 206—19.5)



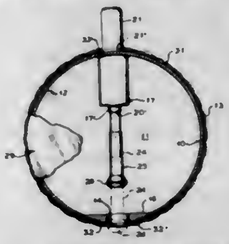
1. An automobile accessory in combination, a base comprising a box-like body provided with a fastening means extending away from the body on one longitudinal side, a cover for the box hinged to the side opposite the before mentioned side to which the fastening means is formed, a removable windshield wiper provided with a hollow handle portion and a pad of rubber-like plastic held between two V-shaped members formed along the longitudinal sides of handle portion, said V-shaped member slidably engaged by co-operating V-shaped portions mounted on the hinged cover of the box-like member for securing the parts together, the hollow handle, closed on one end and opened on the other, is provided with guides within the hollow of the handle to accommodate a removable sliding drawer, a drawer provided with spring clips adapted to receive and hold coins, an end on the drawer adapted to close the open end of the handle portion of the wiper, said end provided with spring clips adapted to embrace the sides of the wiper handle to securely hold the drawer in place.

2,641,360
SPRING FOR HINGED CASES
Ellison S. Irelan, Elgin, Ill., assignor to Illinois Watch Case Co., a corporation of Illinois
Application April 6, 1950, Serial No. 154,392
9 Claims. (Cl. 206—41)



9. In a container having two portions hingedly connected to permit opening and closing thereof, means for urging the portions of the container to open position comprising: a torsion member having a pair of substantially straight portions extending generally in the direction of the hinge and adjacent to opposite sides of the hinge, said torsion member having end portions bearing against respective portions of the container independently of the hinge, and a center arcuate portion extending over the hinge to connect said straight portions.

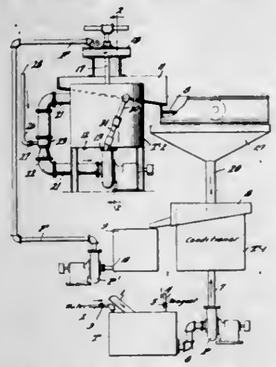
2,641,361
TOBACCO DISPENSER
Max Friedman, High Point, N. C.
Application September 19, 1950, Serial No. 185,575
8 Claims. (Cl. 206—41.1)



7. A tobacco container and dispenser comprising a pair of cup members each comprising a cylindrical wall and a closure for such wall at one end of the same, said cup members being fitted together to form a relatively tight container with the cylindrical wall of one cup mem-

ber rotatably engaging the cylindrical wall of the other cup member, said cup members having circumferentially spaced apertures capable of being brought into alignment, a reciprocating member mounted in the inner cup member in a manner that when the apertures are in alignment said reciprocating member will project through the aligned apertures at one location on the circumference and permit the discharge of tobacco through the aligned apertures at the other location on the circumference of the cups, said reciprocating member being movable to serve as a tamper for tobacco in a smoker's pipe.

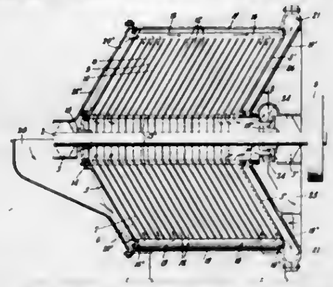
2,641,362
APPARATUS FOR SEPARATING MIXED MATERIALS
Walter L. Remick, Evanston, Ill., assignor to Hydrotator Company, Evanston, Ill., a corporation of Delaware
Application January 4, 1950, Serial No. 136,726
2 Claims. (Cl. 209—155)



1. In an apparatus for separating mixed materials by froth flotation, the combination of a pump; means for introducing said materials, water and a frothing re-agent into said pump; a receptacle, the discharge end of said pump being connected with said receptacle; a tank disposed above said receptacle; an overflow launder on said tank; a vibrating screen below said launder; a sump below said screen; connecting means between the bottom of said sump and said receptacle, adapted to supply the sump-discharge to said receptacle by gravity; a second pump having its inlet connected to said receptacle and its outlet discharging into the upper part of said tank, adapted to raise the receptacle-discharge over the top of the tank; a third pump having its outlet discharging into the lower part of said tank through the tank bottom; and a circulating pipe having one end entering said tank immediately below the top of the tank and its other end connected to the intake of said third pump.

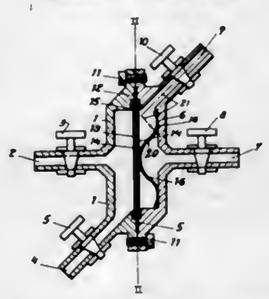
2,641,363
APPARATUS FOR CLARIFYING LIQUIDS
Henri G. Chatain, Clearwater, Fla.
Application July 8, 1947, Serial No. 759,615
1 Claim. (Cl. 210—52)

Apparatus for treating a liquid stream containing fibrous solids, said apparatus comprising a stationary housing having an inlet for receipt of said stream, and a centrifugal unit comprising a plurality of rotary zone-defining members extending between the axis of rotation of said unit and its outer periphery, each of said zones being subdivided into a plurality of smooth rectangular tubular passages inclined at substantial angles to the radial lines of centrifugal force for intercepting solids impelled toward said periphery by said force and enabling said solids to slide along the smooth surface of said paths and to transiently accumulate thereon and return to the liquid at said outer periphery, each of said rectangular tubular



passages being unobstructed at its ends and throughout its length to enable free travel of said solids to said periphery and of clarified water to a region adjacent said axis of rotation, said unit also having vanes at its end opposite said inlet for directing solid matter to an outlet in the adjacent peripheral portion of said housing during rotation of said unit, means for withdrawing liquid and solids from said outlet, and means for withdrawing clarified liquid from a region adjacent the axis of rotation of said centrifugal unit.

2,641,364
FILTER FOR PURIFYING A LIQUID OR GASEOUS FLUID
Jules Depallens, Lausanne, Switzerland
Application September 27, 1947, Serial No. 776,454
In Switzerland June 14, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 14, 1966
1 Claim. (Cl. 210—167)



A filter for purifying a liquid or gaseous fluid comprising in combination a casing consisting of two cup-shaped parts, means for removably and tightly assembling said cup-shaped parts, by their periphery, a vertical and substantially plane sieve assembly tightly mounted on its periphery within said casing between the edges of said casing parts, said sieve assembly comprising a supple diaphragm of a fluid permeable material

suitable for filtering purposes, pressed between two gauzes having a transverse flexibility, one of said cup-shaped parts being provided with a central inlet pipe and at its lower edge with a drain pipe, the opening of which in said cup-shaped part facing the sieve assembly at a lowest point thereof, a valve in said inlet pipe, a valve in said drain pipe, the second of said cup-shaped parts being provided with a central outlet pipe and at its upper edge, with an auxiliary rectilinear pipe, the axis of which being inclined to said sieve assembly and crossing the same at an upper point thereof said second cup-shaped part having an internal bearing wall; a valve in said outlet pipe and a valve in said auxiliary pipe; said auxiliary pipe and valve thereof being adapted to allow an intermittent introduction of a compressed gaseous jet upon said upper point of the sieve assembly, therefrom said jet is partly deflected, a corrugated spring band located in a pre-compression state between said bearing wall and a central portion of said sieve assembly, said band comprising a portion substantially arranged across said deflected gaseous jet, so that said spring band is adapted to be set into vibration by said deflected gaseous jet, thus contributing to promote a vibratory motion of said sieve assembly for cleaning purpose.

2,641,365
SPRAY GUN STRAINER
Carl V. Lundeen, Hollywood, Ill.
Application July 17, 1947, Serial No. 761,606
6 Claims. (Cl. 210—170)



1. The combination with a spray gun having a suction pipe and a receptacle upon which the spray gun is mounted at the top of the receptacle with the pipe thereof extending through the top to remove liquid from the bottom of the receptacle, and a suction strainer assembly for engaging only the bottom of the pipe within the receptacle and comprising a hollow screen element converging at one end, a holder for engaging the larger end of the screen element, the end of the suction pipe being inserted through the holder to the other end of the screen. means in connection with the holder for projecting the other end of the screen element in distended position and around the adjacent end of the pipe, and resilient means in the holder for yieldingly gripping the pipe to hold the bottom of the screen at the bottom of the receptacle.

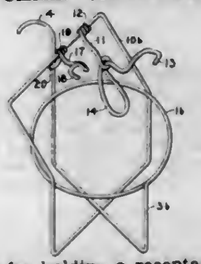
2,641,366
BOOT HANGER
Frank E. Burch, Detroit, Mich.
Application October 13, 1949, Serial No. 121,168
5 Claims. (Cl. 211—38)

1. A hanger for boots comprising in combination a support rod, a cross bar pivoted to the support rod, two flexible resilient metal straps, the one strap being secured intermediate its ends to one end of the cross bar and the other strap being secured intermediate its ends to the other end of the cross bar, each of said straps having free opposite ends and being normally in the form of straight flat strips bendable to substantially U form in a plane generally perpendicular to the plane of said support rod and cross bar for gripping the heel of a boot, and spring means operative between the free



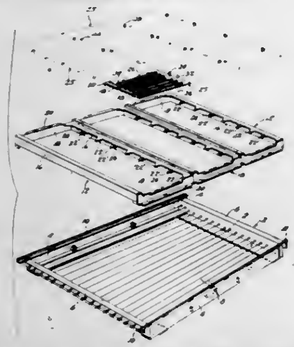
ends of each of said straps for holding the same in substantially U form and in yieldable gripping relation with the heel of the boot, said straps when disengaged from said spring reverting to their substantially straight strip form and overlying said cross bar.

2,641,367
RECEPTACLE HOLDING AND SUPPORTING APPARATUS
Harold F. Wetzel and Albert W. Wetzel, Battle Creek, Mich.
Application May 26, 1947, Serial No. 750,578
5 Claims. (Cl. 211—66)



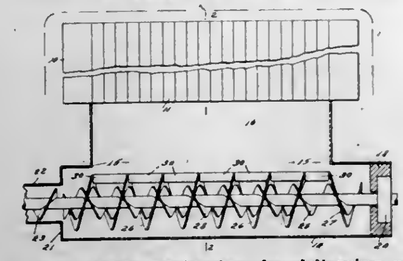
1. A device for holding a receptacle such as a paint pail, which comprises a substantially horizontal ring-shaped wire frame, a substantially upright U-shaped wire member, the upper portion of the legs of which are joined to said frame substantially at opposite sides thereof and extend down therefrom, a wire member joined to the rear of and extending a short distance above said frame and having a backward extending down turned hook on the upper end thereof, a second substantially U-shaped wire member mounted in inverted position with its base joined to said hook-ended wire member adjacent said hook thereof with its legs joined to said frame, said legs extending forward and downward to said frame, and a forward extending paddle holding wire member pivotally mounted on the base portion of said inverted substantially U-shaped member, said paddle holding member having a sidewise extending hook on its free end substantially above said frame and a down turned portion spaced inward of said frame from said sidewise extending hook.

2,641,368
VIAL RACK
Daniel M. Brown, Chicago, Ill., assignor to Refrigeration Systems, Inc., Chicago, Ill., a corporation of Illinois
Application March 29, 1951, Serial No. 218,243
7 Claims. (Cl. 211—74)



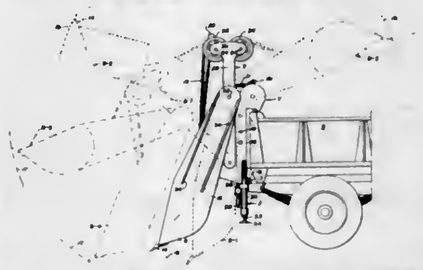
1. A device of the class described comprising a support structure, a master frame removably supported by said structure, said frame comprising support means at one side thereof, and said frame comprising a plurality of spaced projections at the opposite side thereof tapering inwardly toward said support means, and a plurality of trays each having an upstanding flange at one end thereof with a reflanged portion supported by said support means, each of said trays at its opposite end being supported by a plurality of said projections, adjoining trays being supported by a common projection, and means on said trays for supporting associated containers.

2,641,369
CROSSFEED MECHANISM
Paul A. Mulcey, Dallas, James W. Eckerd, Shavertown, and Edward I. Small, Scranton, Pa., assignors to Anthracite Equipment Corporation, Wilkes-Barre, Pa., a corporation of Delaware
Application March 2, 1951, Serial No. 213,492
3 Claims. (Cl. 214—21)



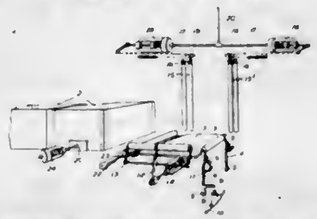
1. A crossfeed mechanism for delivering material to an adjacent horizontally disposed rectangular grate, comprising a tube having a lengthwise disposed side outlet extending throughout substantially the length of said tube, and an inlet for material at one end, said outlet adapted to lead to said grate throughout substantially one side thereof, a shaft rotatably mounted in said tube parallel to said outlet, and two concentrically mounted feed screws operated by said shaft, said screws being parallel to said outlet and coextensive with respect thereto, one of said screws feeding a material delivered to said inlet in one direction lengthwise to discharge laterally through said outlet, and the other of said feed screws feeding excess material in the opposite direction to discharge laterally through said outlet, and one of said screws carrying a row of vanes in registering relation to said outlet to eject material to said outlet.

2,641,370
LOADING DEVICE FOR DUMP TRUCKS AND THE LIKE
Raymond L. Pherson, Boulder, Colo.
Application August 11, 1948, Serial No. 43,673
19 Claims. (Cl. 214—78)



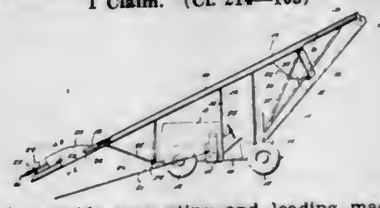
1. A loading device for dump trucks and the like, comprising a bucket; a frame adapted to be attached in stationary position to a tail gate or the like; a removable pin for securing said frame to said tail gate, said tail gate being provided with means adapted to engage said pin; a support pivotally mounted on said frame, said bucket being mounted on said support for relative movement thereto; and means for moving said bucket from a material loading position to a dumping position above said truck body, including means for moving said support relative to said frame and means for moving said bucket relative to said support to vary the path of loading movement of said bucket.

2,641,371
CONVEYER SYSTEM
Alexander Hyde Webster, London, England, assignor to R. W. Webster and Company Limited, Waltham Cross, England, a corporation of Great Britain
Application June 12, 1950, Serial No. 167,639
In Great Britain August 13, 1948
11 Claims. (Cl. 214—89)



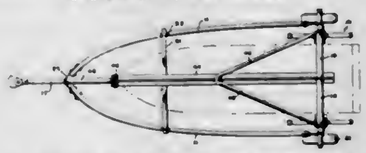
9. A case conveyor system comprising a conveyor for advancement of a line of cases, a vertically movable platform in alignment with said conveyor, stop means located in the path of movement of said line of cases for arresting the front case of said line on said platform, front case positioning means adapted to act upon said front case while it is arrested on said platform and including thrust means for locating said front case in a pre-arranged position transversely of said platform, means for locating said front case in prearranged orientation in relation to said platform, means for lifting said platform with said front case thereon, a source of power, and trip means actuated by said stop means for initiating transmission of power from said source to said front case positioning means and thereafter to said platform lifting means.

2,641,372
PORTABLE EXCAVATING AND LOADING MACHINE
Conrad O. Bjaaland, Coeur d'Alene, Idaho
Application March 28, 1949, Serial No. 83,907
1 Claim. (Cl. 214—105)



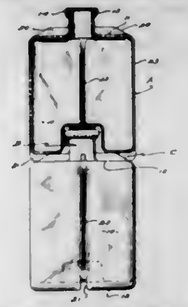
A portable excavating and loading machine comprising a vehicle, an adjustable front framework pivotally mounted on the front end of said vehicle, a rear framework pivotally mounted on the rear end of said vehicle, a chute tiltably mouned on said vehicle by means of the pivotal rear frame work and the removable rods in said front frame work for operating and transportation purposes, a material carrying scoop operable within said chute, said chute having side rails and a floor, a dump opening in the upper extremity of said chute formed by turning the floor downward to form a dump chute, the side rails of said chute being extended beyond the dump opening and joined at their terminals, powered winches operable to move said scoop up and down within said trough, outwardly extending arms on the sides of said scoop enabling the scoop to ride on said side rails of said chute, said arms being placed about half way up and in the rearward portions of the sides of said scoop to enable said scoop to pivot about said arms when said scoop is brought to a rest over said dump opening, and forwardly extending hook portions on said arms operable to hook over said chute side rails and hold said scoop during the dumping operation.

2,641,373
BOAT TRAILER ASSEMBLY
Frank L. Wright, Mayfield, Ky.
Application November 2, 1950, Serial No. 193,553
4 Claims. (Cl. 214—394)



1. A trailer for transporting small boats comprising a substantially rectangular rear frame member, a pair of ground-engaging wheels pivotally connected to the sides of the rear frame member for movement about the horizontal axis, a pair of side members, an arm secured at one end to each wheel, a pivot connection between the opposite end of each arm and each side member whereby the side members are pivotally secured to the ground-engaging wheels at a point below the pivot of the wheels to the rear frame member and extending forwardly of the rear frame member, so that when the pivot between the side members and the wheels is unbroken the wheels are in alinement with the sides of the rear frame member and at approximately right angles to the side members, a protuberance on each arm for engaging the side of the rear frame member to maintain each wheel in alinement with the side of the rear frame member when the pivot between the side member and the wheel is unbroken, means connecting the free ends of the side members, and transversely extending means operatively connected to the side members intermediate the ends thereof cooperating with the rear frame member to support the boat, the ground-engaging wheels being adapted to be moved about their pivots to the rear frame member to lower the rear frame member to facilitate loading the boat when the side members are moved to break the pivots between the side members and the ground-engaging wheels.

2,641,374
CONTAINER
Frank Der Ynen, Running Springs, Calif., assignor of one-half to Yee Sing Chun, Oakland, Calif.
Application October 29, 1949, Serial No. 124,311
2 Claims. (Cl. 215—10)



2. A one piece container having a vertical body substantially square in cross sectional configuration and having flat top and bottom ends, a neck projecting upward from the center of the top, the bottom having a central neck receiving socket, and elongate rib shaped keys on the top located between the corners of the body and the central axis of the body, there being key receiving recesses in the bottom corresponding in size and arrangement with the keys, the keys being joined to the neck and the recesses being open at the corners of the body.

2,641,375
CLOSURE FOR BOTTLES AND LIKE CONTAINERS
James Noel Steuart, Stirling, Scotland, assignor to Kork-N-Seal Limited, London, England, a British company
Application July 7, 1949, Serial No. 103,438
In Great Britain July 8, 1948
1 Claim. (Cl. 215—48)

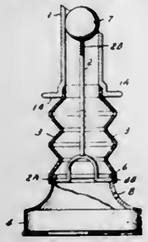
A closure comprising in combination a cork and a metal top having a cap portion and an

annular ring portion surrounding the cork at a region below the top of the cork so as to leave the upper portion of the cork above the ring free for expansion, said ring portion being of U-shaped radial cross-section, and having inner and outer annular walls, through which the cork projects, both of said walls being formed with axially extending spline-like undulations, the inner wall being clinched into and around the body of the cork so that the whole of its annular free edge is pressed into the cork below the upper por-



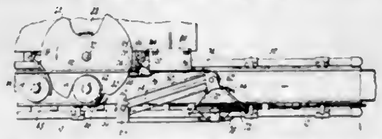
tion of the cork, and said cap portion comprising a top and a skirt depending therefrom, the skirt being provided with indentations co-operating with the indentations on the outer wall of the ring portion and the lower portion of the skirt being tightly inturned about the lower portion of the said annular ring portion with the inner portion o. the top of the cap pressing downwardly on the top end of the cork and causing the upper portion of the cork above the ring to bulge radially outwardly beyond the inner annular wall of the ring and more effectively secure the ring on the cork.

2,641,376
DISPENSING CAPS FOR BOTTLES
Joseph Parziale and Robert P. White, Cleveland, Ohio
Application April 12, 1949, Serial No. 87,058
2 Claims. (Cl. 215—78)



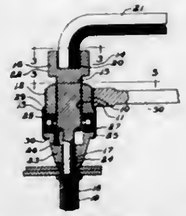
1. A device of the class described comprising a spout member of rigid material and having projections extending outwardly from opposite sides of its lower portion, a neck in bellows form with its upper end portion affixed to the inside surface of the lower end portion of said spout, a hollow cap formed base having the lower end portion of the said neck attached to the outer circumference surface of the upper end portion of the said base, a yoke-shaped member affixed on the inside surface of the upper portion of the said base by means of its prong ends, a valve in the form of a ball fixed on the upper extremity of the upward or vertically extending stem of the said yoke member, the said valve sealing the orifice in the spout when the spout is in its unactivated position, said valve adapted to unseal such orifice by reason of the shortening of said bellows neck by means of a pressure exerted on the said spout projections, such pressure being applied in the direction toward the said base, and the said valve adapted to return to its unsealing position when the said pressure on the said projections is released.

2,641,377
LABEL APPLYING MACHINE
Nils A. Zander, Stow, Mass.
Application October 27, 1950, Serial No. 192,395
4 Claims. (Cl. 216—42)



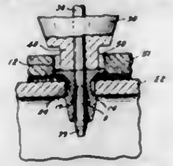
1. In a labeling machine, a horizontal conveyor, a frame pivoted at one end beside said conveyor to swing from a position alongside the conveyor to a position diagonally across the conveyor, pulleys carried by said frame at the pivoted and free ends thereof, an endless driving belt passing about said pulleys, means for driving said conveyor and for driving said belt at twice the linear speed of the conveyor, means resiliently pressing said frame toward its diagonal position, and a label magazine mounted at the side of the conveyor across from said driving belt, said magazine including means for supporting labels in position to be successively engaged by objects carried by the conveyor and pressed toward the magazine by said driving belt.

2,641,378
HAND-POWERED TOOL FOR UPSETTING HOLLOW RIVETS
Homer E. Wilt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 1, 1949, Serial No. 96,488
4 Claims. (Cl. 218—19)



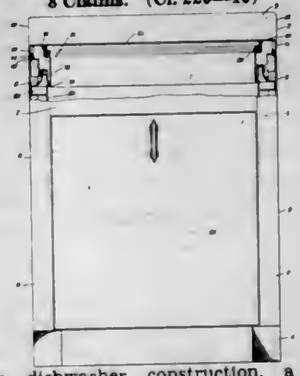
1. A compact hand-powered riveting tool for outwardly expanding the shank of an internally threaded tubular rivet in work by operation from one side only of the work, said riveting tool comprising a hollow body having an annular outward flange at one end thereof and an internally threaded bore of substantially uniform diameter therein extending from said end to the other end thereof and an outer surface between said ends arranged for separably engaging a hand-manipulable implement to rotate said body, a hollow anvil including an annular outward flange at one end thereof mounted on said body at the flanged end thereof in end-on rotative relation thereto with adjacent ends of said outward flanges facing one another, said anvil presenting a rivet-engaging surface at its other end and said anvil having therethrough a bore, in part of reduced diameter relative to that of the threaded bore in said body, extending to said rivet-engaging surface and arranged in alignment with said threaded bore in the body, a retaining sleeve element extending between and peripherally about both said outward flanges in interlocking engagement therewith and in peripherally slidable relation to at least one flange to hold said body and said anvil in assembled relation one to the other, while accommodating relative rotative movement of said body and said anvil, and a screw structure having an externally threaded shank portion of substantially uniform diameter extending entirely through said threaded bore in said body in threaded engagement therewith from end to end thereof for relative axial movement under relative rotative movement of said body and said screw structure, said shank portion terminating adjacent and spaced from said other end of said body in means integral with said shank portion for separably engaging a second hand-manipulable implement for holding said screw structure against rotation when said body is rotated by manipulation of the first said implement, said screw structure including an extension of reduced diameter as compared to that of said shank portion extending away from said body and said shank portion through said bore in said anvil in snug fitting, slidable and rotative relation thereto and terminating beyond said rivet-engaging surface of the anvil in a threaded portion for insertion into and detachable engagement with an internally threaded tubular rivet to apply axial drawing force thereto, while said rivet-engaging surface applies a reactionary force thereto, upon relative axial movement of said body and said screw structure so as to outwardly expand the shank of said rivet against the work.

2,641,379
METHOD OF RELINING BRAKES
Joseph Barbaro, Boston, Mass.
Application May 31, 1950, Serial No. 165,338
1 Claim. (Cl. 218—29)



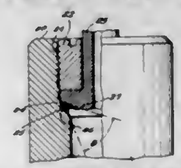
The method of relining automobile wheel brakes which comprises the steps of removing the wheel and brake drum only and thereafter removing the worn brake lining and rivets from the exposed brake shoe, placing a brake lining provided with counterbored holes in contact with the apertured brake shoe, with the counterbored holes in alignment with the apertures of the brake shoe and with the counterbore of the holes facing away from said brake shoes, inserting a rivet into each of the counterbored holes, said rivet having a head and shank depending therefrom with a bore extending axially through said head and shank which is tapered inwardly in the direction of the terminal end of said shank, said rivet being positioned with the head thereof in contact with the bottom surface of the counterbore of the hole, and the shank projecting through the aligned aperture of said brake shoe, the shank of each of said rivets being slotted entirely through said shank at its terminal end in a radial direction and being provided with shoulders on the exterior of the shank intermediate the length of said slotted portion and positioned in spaced relation to the terminal end of said shank, said shoulders, after insertion of the rivet, projecting with but slight clearance beyond said brake shoe, spreading said slotted rivet shank by inserting a member within the tapered bore of each rivet to spread the terminal end thereof and thereby move the shoulders of the rivet outwardly into tight securing engagement with the brake shoe around the aperture therein.

2,641,380
TUB AND TOP CONSTRUCTION FOR DISHWASHERS
Harold O. Smith, Salem, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application November 8, 1950, Serial No. 194,669
8 Claims. (Cl. 220—10)



8. In dishwasher construction, a vitreous enamel coated sheet metal tub member having an upwardly projecting cylindrical side wall terminating in an outturned flange, there being an inwardly projecting bead formed around the tub side wall spaced below said outturned flange, a vitreous enamel coated sheet metal counter top member for the tub having a downturned cylindrical tub adjoining flange telescoped within the tub side wall terminating at its lower end in a flared lip located immediately below said bead and forming an access opening for the tub member, a cabinet, means supporting the tub member in the cabinet, separate means supporting the top member on the cabinet, there being a clearance space between the lip and tub side wall providing a tub vent, and the outer diameter of said lip being at least equal to the inner diameter of said bead.

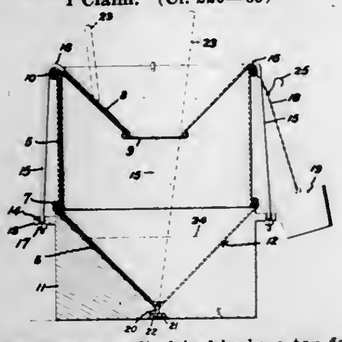
2,641,381
SEALING MEANS FOR PRESSURE VESSELS
Joseph V. Bertrand, Brooklyn, N. Y., assignor to Hydropress, Incorporated, New York, N. Y., a corporation of Delaware
Application November 18, 1948, Serial No. 60,730
2 Claims. (Cl. 220—46)



1. In a pressure vessel having an opening therein, the combination including a closure for said opening, a seal seat ring means having a curved surface, angularly disposed seal seats on said vessel and closure respectively adjacent the junction thereof, said seal seat ring means being positioned between said vessel and closure with the curved surface thereof disposed inwardly of

the vessel and extending between the adjacent edges of said angularly disposed seal seats; and a resilient metal seal annulus comprising a pair of legs joined by a curved portion, one of said legs extending substantially longitudinally of the axis of the annulus and the other leg extending substantially transversely of said axis, the legs of said seal annulus contacting said seal seats, and the curved portion thereof contacting the curved surface of said seal seat ring means; said legs being disposed at a greater angle to each other before the annulus is assembled on said seats with said vessel and closure than the angle between said seal seats so that said annulus is in a prestressed condition when the vessel, closure, and annulus are in assembled relationship, the yield point of the metal annulus between the end portions of said legs not being exceeded so that said annulus can regain its shape when removed.

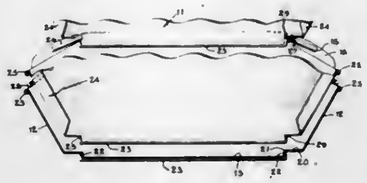
2,641,382
WELDER'S FLUX POT
Robert Flay Mason, Magee, Miss.
Application January 9, 1952, Serial No. 265,676
1 Claim. (Cl. 220—69)



In a flux pot, a cylindrical body, a top for said body having reentrant downwardly converging side walls, the lower ends of said walls cut away to provide an opening, a bottom for said body having downwardly converging side walls meeting in the longitudinal axis of said body, a base having an opening extending inwardly from one end thereof, the side walls of said opening converging downwardly and with their apex disposed in the longitudinal center of said body, said bottom and said body having aligned openings, a bolt extending through said openings and clampingly maintaining said bottom and said body walls together, lugs projecting outwardly from the sides of said bottom, said lugs having openings therein disposed parallel with the axis of said body, rods extending through said openings, hooks on the upper ends of said rods to engage with the upper edge of said body, nuts threadedly engaged with the lower ends of said rods to clampingly engage with said lugs, and a stopper secured to said body and of a size to snugly fit with the opening in said top.

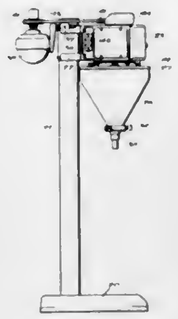
2,641,383
CONTAINER WITH HANDLE STACKING MEANS
George E. Coursey, Cincinnati, Ohio, assignor to The Charles Wm. Doepke Manufacturing Company, Rossmoyne, Ohio, a corporation of Ohio
Application May 28, 1951, Serial No. 228,704
9 Claims. (Cl. 220—97)

9. A small parts container comprising outwardly flared side and end walls and a bottom, said end walls being lower than said side walls and flared to a substantially greater degree than said side walls, a pair of bails, each bail of the pair having a pair of end pivots disposed upon a common axis and a transverse portion disposed in spaced parallel relationship with respect to said axis, each bail having its end pivots journaled in the respective side walls adjacent an end of



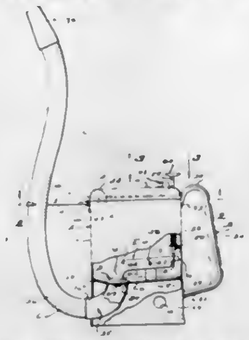
the container in such a position that the bail may be swung into an outwardly and downwardly angulated position in which the transverse portion is parallel to, but spaced inwardly from, the adjacent end wall and below the axis of said end pivots, and means supporting said bail in said position where it is engageable with the end wall of a second like container nested therein.

2,641,384
UNIVERSAL FILLER WITH HOPPER AND COUNTER MECHANISM CONTROLLED AUGER FEEDER THEREIN
George Diehl Mateer, Ardmore, Pa.
Application January 5, 1949, Serial No. 69,345
3 Claims. (Cl. 222—70)



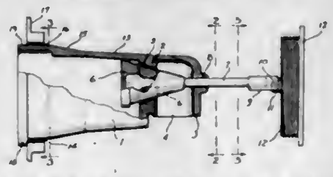
1. In a feeder, a hopper, an auger feeder in the hopper controlling the feed therefrom, a driven shaft on the auger feeder, a driving shaft, a disc clutch operatively interposed between the driving shaft and the driven shaft, a lever pivotally mounted for applying pressure to and releasing pressure from the disc clutch, an electric solenoid operatively connected to the lever and when energized causing the lever to apply pressure to the disc clutch, and an electric counter operatively connected to the driven shaft to respond to the revolutions of the driven shaft, operatively connected to the solenoid and including a switch in the solenoid circuit by which the solenoid is disconnected when the counter counts out.

2,641,385
CONTROLLED FLUID DISPENSING CONTAINER
Halcolm D. Rives, Los Angeles, Calif., assignor to Swingspout Measure Company, Los Angeles, Calif., a corporation of California
Application April 20, 1951, Serial No. 222,101
3 Claims. (Cl. 222—471)



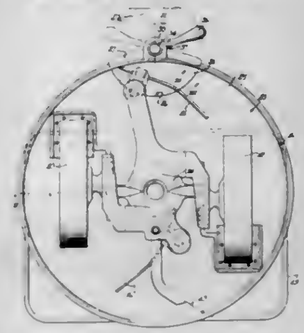
1. A liquid handling device including, a container having a cylindrical body, a bottom at the lower portion of the body and an inwardly projecting lip extending around the upper end of the body, the lip being crowned in cross section and defining an annular downwardly facing cavity, a spout in communication with the body through the bottom and having a section shiftable relative to the container, a handle on the container at the exterior of the body with a portion in the vicinity of the lip, a valve controlling flow from the body to the spout, operating means for the valve including, a lever pivoted in the body and carrying the valve, a stem connected to the lever and projecting upwardly to a point above the lip and in the vicinity of the handle, and a spring normally holding the stem in a raised position with the valve in a closed position, and stem gripping means including, a flexible arm having one end fixed to the container, a jaw carried by the arm and normally held thereby in gripping engagement with the stem, and an actuating part at the exterior of the container and in the vicinity of the handle and depressible to release the grip of the jaw, the arm and jaw forming an elongate curved part confined in said cavity.

2,641,386
COLLAPSIBLE POURING SPOUT
Cornelius W. Meyers, Portland, Oreg.
Application August 13, 1948, Serial No. 44,131
3 Claims. (Cl. 222—501)



1. A collapsible pouring spout for a barrel provided with a bunghole, said spout comprising a cylindrical body having resilient sidewalls, an open end capable of being folded radially inwardly to collapse said open end to sufficiently small compass to enable it to slide longitudinally through said bunghole, said walls being sufficiently resilient to return the body to its normal shape to seal said bunghole, said open end of said body being of larger diameter than the remainder of said body, said body also having a closed end, a partition extending transversely of said body defining a discharge chamber with said closed end, a portion of the body extending between said partition and said closed end being apertured to form a discharge spout thereby, said partition having a longitudinal passageway formed therein, tapered inwardly toward said discharge chamber, a conical valve adjustably arranged with respect to said aperture for controlling the flow of liquid therethrough, rod means connected to said valve for actuating said valve, means on the terminal end of said rod means for pivotally connecting a bung hole cap thereto, and a shoulder means on the open end of said body for engaging the margins of said bung hole, tending to prevent leakage of liquid between said spout and said bung hole.

2,641,387
MIXING MACHINE DISCHARGE DOOR
Alfred C. Christensen, Chicago, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois
Original application February 27, 1947, Serial No. 731,213. Divided and this application October 6, 1951, Serial No. 250,168
3 Claims. (Cl. 222—556)



1. A discharge door for a mixing machine having a base, a crib supported on the base, a wear plate supported by said base and forming the bottom of the crib, the wear plate having a sectoral-shaped opening defining a stepped discharge opening; comprising a door member for mounting on said crib and swingable in a plane parallel to the plane of said wear plate, said door member being of sectoral-shape for movement into said opening in said wear plate to close said discharge opening, said door member having a stepped outer edge for extending in overlapping relation to the edge of said wear plate opening to form a leak-proof joint when said discharge opening is closed.

2,641,388
DEVICE FOR USE IN MAKING BOUND BUTTONHOLES
Rose T. Hanna, West Somerville, Mass.
Application August 1, 1950, Serial No. 177,020
3 Claims. (Cl. 223—1)

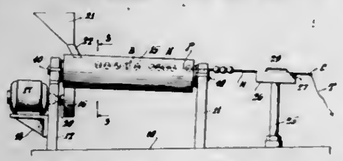
1. A tool for use in making bound buttonholes comprising a handle, a pair of flat flexible fingers

rigidly attached to and extending from said handle, said fingers being adapted to be received



in and firmly hold strips of piping fabric, and a button slidably received on said fingers and adapted to hold said fingers in exact parallelism.

2,641,389
BEAD THREADING MACHINE
Richard Bagdon, New York, N. Y.
Application February 28, 1948, Serial No. 12,061
12 Claims. (Cl. 223—48)



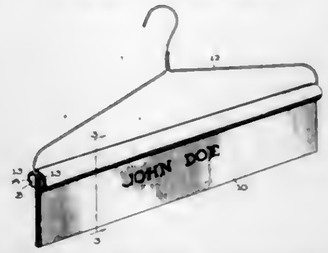
1. In a bead stringing machine, the combination of a pair of substantially parallel, spaced apart rolls constructed and arranged in a substantially horizontal position to support beads having holes therebetween, means effecting rotation of both of said rolls in the same direction at a speed to cause said rolls to revolve the beads and by centrifugal force effect alignment of the holes of the beads, a needle for entering into and passing through the holes of the beads, whereby the beads are adapted to be strung thereupon, and a support for holding said needle with its axis in parallel relation to the axes of the rolls and with its threading end located between the rolls adjacent one of their ends.

2,641,390
GARMENT FORM RETAINER
Frank Y. Sherbondy, San Antonio, Tex.
Application October 19, 1950, Serial No. 190,903
4 Claims. (Cl. 223—71)



1. A form retainer for a coat garment of either single or double breasted style, comprising a long flat body for insertion between the overlapping front portions of the garment, means for coupling the body with a button on one portion, and an elongate flap attached to the body and positioned inwardly of an end thereof for engagement in the button hole for said button in the other portion, the first stated means comprising a long slot in the body of a width less than the diameter of the button, the slot being enlarged at one place to facilitate passing the button through the body.

2,641,391
GARMENT HANGER GUARD
Hubert B. Tillery, Kansas City, Mo., assignor, by direct and mesne assignments, to Tillery Container Company, Kansas City, Mo., a partnership
Application November 6, 1950, Serial No. 194,282
3 Claims. (Cl. 223—88)



1. A garment hanger guard comprising a sheet of relatively stiff material folded transversely of its length providing a center line and two parallel spaced side members, said side members at their upper portions extending in an outwardly direction and terminating in an inwardly extending portion, said inwardly extending portions being united at said center line of said sheet and arranged superjacent and overlying the entire surface of said outwardly extending portions to provide a longitudinal supporting surface along and adjacent to said center line of said sheet of material, said overlying inwardly extending portion having the inner surface thereof spaced from the upper ends of said side members and inner ends of said outwardly extending portions to provide a longitudinal pocket for the reception of a bar of a hanger.

2,641,392
GARMENT HANGER
William H. Smith, Evanston, Ill.
Application October 1, 1951, Serial No. 249,073
4 Claims. (Cl. 223—88)



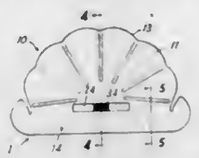
1. A garment hanger comprising a central suspending hook, a pair of downwardly diverging shoulder supporting portions and a pair of parallel similar cross members secured to the outer extremities of said shoulder supporting portions, said cross members having adjacent each of their ends upwardly projecting fingers adapted for engaging belt loops of garments and the section of each cross member between said fingers having a pair of upwardly extending loops in the same plane as said fingers, said loops diverging with respect to each other and having open bottoms and aligned horizontal top sections, whereby said loops are adapted to be inserted in the cuffs of trousers, the fingers and diverging portions of one cross member being coplanar and parallel to the fingers and diverging portions of the other cross-member.

2,641,393
ATTACHMENT FOR CLOTHES HANGERS AND LIKE ARTICLES
Myron B. Gwinn, Denver, Colo.
Application February 18, 1949, Serial No. 77,210
2 Claims. (Cl. 223—98)



1. As an article of manufacture, a blank for the formation of a rigid tubular cover for a bar of a conventional wire clothes hanger, comprising a strip of single sheet material of cardboard-like-rigidity and bendability and having its central longitudinal portion preformed out of the normal plane of the strip and into a channel of approximately semi-circular cross section, of width sufficient, when bent, to bring the edges of the channel into mutual contact, to form a tube of diameter greatly in excess of that of the bar, the portions of the strip between the channel and the strip edges extending in opposite directions from the channel and lying in a common plane and having their faces, on the same side of the strip as the channel, coated with a pressure-sensitive adhesive which adheres to like coated surfaces but not to uncoated surfaces.

2,641,394
NEEDLE THREADER
William A. Cotter, New York, N. Y., assignor to Cotter Products Inc., New York, N. Y.
Application July 27, 1949, Serial No. 107,077
3 Claims. (Cl. 223—99)



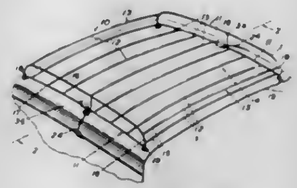
1. In a needle threader comprising a casing formed with a needle socket and a thread notch adjacent thereto, said casing comprising a pair of adjacent walls, one of said walls being formed with a channel of uniform height throughout the longitudinal extent thereof disposed transversely of and extending to the lower end of said socket, the other of said walls being formed with a longitudinal projection extending into the channel on said one wall and an elongated member including shank and hook portions of uniform thickness slidably mounted in said channel for movement toward said socket and thread notch, the projection on said other wall contacting said shank and hook portions for restraining the hook portion of said elongated member against transverse movement during longitudinal movement thereof.

2,641,395
POSITIONING STRUCTURE FOR REVOLVER HOLSTERS
Byron Engle, Washington, D. C.
Application July 9, 1951, Serial No. 235,815
7 Claims. (Cl. 224—2)



7. In a pistol carrying assembly, a pistol-receiving holster; a belt-receiving support for the holster; and positioning structure interconnecting said holster and said support, said structure comprising a body secured to said support; a shaft on the holster and rotatably secured to the body; a lateral extension on said shaft; a lock member swingably secured to the body and engageable with said extension for holding the latter against swinging movement; a resilient latch element on the body and biased to a position within the path of travel of the lock member for holding the same against swinging toward the extension when out of engagement therewith; means on the latch member within the path of travel of the extension and engageable thereby for releasing the latch element for movement of the lock member toward the extension; and means on the body and engageable with the lock member for yieldably holding the latter biased toward the extension.

2,641,396
LUGGAGE CARRIER FOR VEHICLES
Bernard Arthur Parr, East Sheen, London, England
Application August 7, 1950, Serial No. 177,998
In Great Britain August 11, 1949
3 Claims. (Cl. 224—42.1)



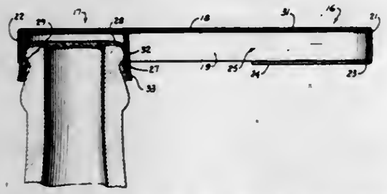
1. A luggage carrier adapted to be secured to the roof of a motor car and comprising a frame composed of two rigid longitudinal side sections, each having a plurality of stub members extending therefrom, and a base comprising a plurality of hollow transverse members, said transverse members and said stub members having a sliding fit, one within the other, affording a telescoping relation therebetween, whereby the width of the frame may be varied, and means for rigidly securing the transverse members to the stub members in any desired adjusted telescoped relation thereof.

2,641,397

TOOL FOR REPLACING BOTTLE CAPS AND RECRIMPING THE CAPS IN AN AIRTIGHT SEAL

Howard H. Sander, Laramie, Wyo., assignor of one-half to Norman Camenker, Duluth, Minn.

Application May 8, 1950, Serial No. 160,796
1 Claim. (Cl. 226—84)



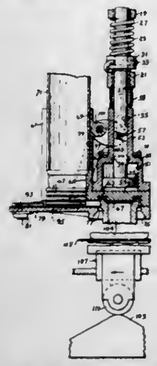
A bottle cap replacing device comprising a relatively long body member in the form of a metal stamping defining a handle, said body member having curved ends, a depending flange integral with said body member formed around the entire periphery of said body member including said curved ends, a circular flared receptacle having its open end extending in the same direction as said depending flange disposed at one end of said handle and secured thereto within said peripheral flange with the periphery of said receptacle engaging the curved portion of said flange at said one end of said handle over a portion of the periphery of said receptacle, said receptacle having a diameter at its open end to receive a crown type bottle cap and having a gradually decreasing diameter in a direction away from its open end to effect constriction of a crown type cap around a bottle top, and an arcuate member integral with the flange at the other end of said handle and extending inwardly of said flange in a direction approximately parallel with said body member and perpendicular with said peripheral flange.

2,641,398

BOTTLE CAPPING MACHINE

Walter A. Barrett, Fort Wayne, Ind.

Application March 8, 1949, Serial No. 80,146
4 Claims. (Cl. 226—92)



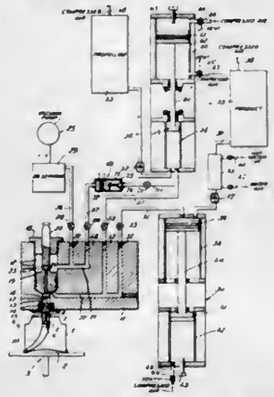
1. A bottle capper comprising a fixed shaft, a sleeve slidable up and down thereon to and from a bottom position, resilient means for urging the sleeve to the down position, cap presser means on the sleeve, a cap magazine mounted on the sleeve, means mounted on the sleeve for abstracting a cap from the magazine and positioning it in alignment with the presser means, means for reciprocating a bottle toward and away from the presser means to actuate the sleeve and install the cap on the bottle and means connecting said shaft sleeve, the positioning means for actuating the latter to cap abstracting position when the sleeve is up and to cap aligning position when the sleeve is down and dashpot means for reducing the rate of restoration of the sleeve below that of the withdrawal of the bottle to prevent interference between the bottle and the cap being positioned.

2,641,399

METHOD FOR CHARGING LIQUID PRODUCTS AND VOLATILE PROPELLANTS INTO PRESSURE CONTAINERS

Douglas M. McBean, Rochester, N. Y., assignor, by mesne assignments, to Carter Products, Inc., New York, N. Y., a corporation of Maryland

Application December 8, 1949, Serial No. 131,802
8 Claims. (Cl. 226—100)



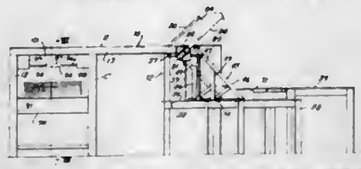
1. The method of charging a liquid product and a volatile propellant into a pressure packaging container having a valve controlled opening, which comprises the steps of partially evacuating the container, introducing a measured charge of liquid product into the container through the valve controlled opening, and during the introduction of the liquid product and before the end of such introduction introducing a measured charge of propellant in liquid phase into the container through said valve controlled opening.

2,641,400

COUNTER CONSTRUCTION

Lewis A. Simmons, Maywood, Ill.

Application May 21, 1948, Serial No. 28,362
4 Claims. (Cl. 226—129)



2. In combination in a device for packing a container, a counter, a first platform disposed below said counter having a portion extending beyond the end thereof, a container support member pivotally mounted on said platform, and a second platform slidable relative to said first platform and pivotally connected to said support member, said second platform providing a supporting surface for receiving the container after it has been packed.

2,641,401

LADDER

Herschel James, Dryden, Wash.

Application May 13, 1950, Serial No. 161,800
4 Claims. (Cl. 228—34)



1. In a ladder a medially disposed longitudinally extending ladder supporting tubular post; cross steps rigid with and carried by said post; an extension arm slidably and telescopically supported within said post and adjustable through the top end of said post in substantial alignment with said post to any desired position within a predetermined distance above the top end of said post; and endless cable extension arm moving means connected with said extension arm.

2,641,402

CUP-SHAPED FOIL CAPSULE

Otto Johannes Bruun, Slough, England

Application January 14, 1948, Serial No. 2,220
In Denmark January 28, 1947
1 Claim. (Cl. 229—4.5)



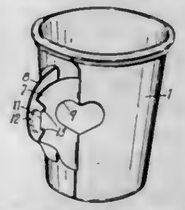
As an article of manufacture, a container having a side wall formed as a surface of revolution comprising thin soft metal foil formed into cup shape and having pleated side walls of compressed overlapping layers of foil material, said container having a number of relief grooves impressed over the entire surface of the side walls thereof and being superimposed over said pleats, said relief grooves being closer together than the fold lines of the side folds and being parallel to the generatrix of the side wall and intersecting said fold lines, whereby to cause the overlapping layers of the foil material to interlock, the said overlapping layers of foil being held together solely by said relief grooves and without the use of adhesive.

2,641,403

HANDLED CUP

Kenneth T. Buttery and Louis W. Sutherland, Jr., Kalamazoo, Mich., assignors to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan

Application April 16, 1947, Serial No. 741,854
9 Claims. (Cl. 229—52)



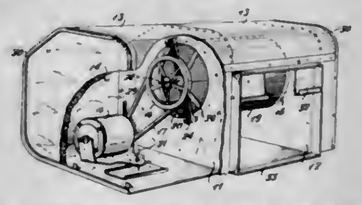
1. A cup comprising a side wall formed of a blank having a body portion terminating at one end in a sealing flap conformed at its end and slitted to provide oppositely disposed U-shaped handle members, the sealing flap being lapped upon the outside of the other end of the body portion and adhesively secured thereto to permit the handle members being swung outwardly to erected position, the handle members initially being flush with the surface of the flap and collapsible within said surface to permit nesting, one of the handle members having a finger receiving opening and a slot in the inner edge of the handle member, said slot constituting an extension of the opening, the other having a tongue with an enlarged outer end, said tongue being disposed on the outer edge of the handle member and being engageable with said slot when the handle members are erected, the vertical dimensions of the opening being greater than that of the slot to permit the enlarged outer end of the tongue to be inserted through the opening and thereafter the tongue to be shifted laterally of itself for engagement of the inner narrow portion of the tongue with upper and lower edges of the slot.

2,641,404

BLOWER-FILTER UNIT

Gerald L. Schwarz, Cleveland Heights, Ohio, assignor to Air Controls, Inc., Cleveland, Ohio, a corporation of Ohio

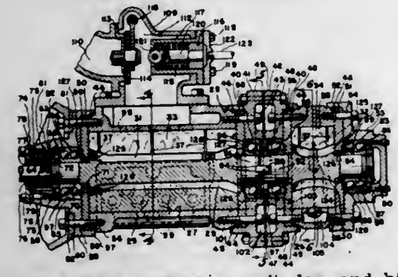
Application March 18, 1950, Serial No. 150,499
3 Claims. (Cl. 230—114)



1. A blower-filter device comprising, a casing including a pair of spaced side walls and a continuous casing wall extending around the edges of said side walls forming the front, back, top and bottom walls of said device, a motor mounted

on said bottom wall outside one side wall, the side walls being provided with aligned air inlet openings disposed above the upper margin of said motor, one of said casing walls being provided with an air outlet opening, an air impeller revolving on a horizontal axis, aligned with said side wall openings and supported by said side walls, the disposition and arrangement of the parts of said device being such that rotation of said impeller draws air in a straight unobstructed course through both said side wall openings into the interior of said impeller and forces it outwardly through said outlet opening.

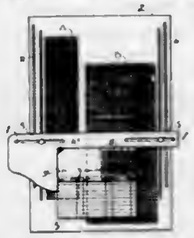
2,641,405
FLUID COMPRESSOR UNIT
John Le Valley, Painted Post, N. Y., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application April 14, 1948, Serial No. 21,026
9 Claims. (Cl. 230—158)



1. In a fluid compressor unit, low and high pressure cylinders arranged in end to end relation with respect to each other and each having inner and outer end heads, inlet and discharge passages for the cylinders, rotors in the cylinders for compressing fluid therein, means for introducing a cooling fluid into the fluid to be compressed in the cylinders, a chamber in the opposed surfaces of the inner heads to receive the cooling and compressed fluids from the low pressure cylinder and constituting a supply chamber for the high pressure cylinder, a container for cooling fluid to receive the cooling and compressed fluids discharged by the high pressure cylinder and having a discharge conduit, a conduit for conveying cooling fluid from the container to the cooling fluid introducing means, and means in the discharge conduit for straining the cooling fluid from the compressed fluid flowing therethrough.

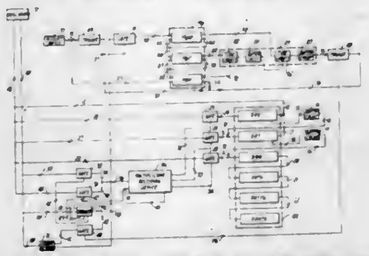
2,641,406
TABULAR CALCULATOR
Henry S. Packard, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
Application December 24, 1949, Serial No. 135,000
7 Claims. (Cl. 235—61)

1. In a calculating device, a panel having a set of number values in consecutive order in horizontal and vertical columns, and a second set of number values in horizontal and vertical columns laterally of said first set with the numbering consecutive in any group of adjacent vertical columns of the same space expanse as the space expanse of the entire first-named set, a coordinating element having a horizontal straight edge and a vertical straight edge and a tabular arrangement of numbers in consecutive order and in horizontal and vertical columns corresponding in spacing to the spacing of the vertical columns in the said first set of number values, said coordinating element having two sight-openings with horizontal distance therebetween generally equal to the distance between the first vertical columns of said first set and said second set, the coordinating element sight-openings thereby



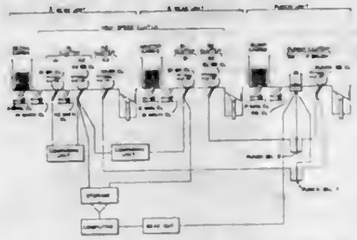
sighting a number value in the first set and an answer in the second set, and a slide and means supporting it for movement over said panel, the slide having a right angle recess corner to position the coordinating element with one sight-opening in said first-named set of number values and its other sight-opening in said second set of number values.

2,641,407
ELECTRONIC MULTIPLIER
Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 18, 1949, Serial No. 99,959
19 Claims. (Cl. 235—61)



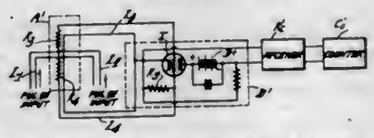
1. An electronic multiplier for effecting multiplication of a multiplier and a multiplicand to obtain the product thereof including a multiplier receiving device having an order corresponding to each order of the multiplier, a multiplicand receiving device having a single order of counting elements to accommodate a multiplicand having a plurality of orders, a result register having an order corresponding to each order of said product, a first source of pulses for effecting operation of said multiplicand receiving device and said result register, a second source of pulses comprising a frequency divider network having a recurrence frequency determined by said first source of pulses and connected to be operable in response thereto, circuits intermediate said sources of pulses for permitting the selective operation of said multiplicand receiving device in response to said first source of pulses and circuits intermediate said second source of pulses and said multiplier receiving device for effecting the selective operation of said multiplier receiving device in response to pulses from said second source.

2,641,408
RECORD CONTROLLED CALCULATING MACHINE
Russell A. Rowley, Binghamton, and Delmar C. Newcomb, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 26, 1951, Serial No. 253,332
14 Claims. (Cl. 235—61.7)



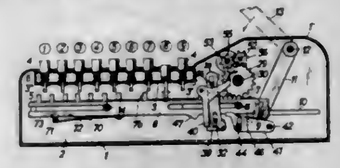
11. In a record controlled calculator, a first record reading unit comprising two record reading devices and means to feed a first set of records to said devices in succession, a second record reading unit comprising a record reading device and means to feed a second set of records to said latter reading device, a calculating unit, means to enter factors into said calculating unit from the second record reading device of said first record reading unit and from the reading device of said second reading unit, means to compare a record read by the second reading device of said first reading unit with a record read by the first reading device of said first reading unit, and means to control the operation of said second reading unit in dependence upon the agreement or disagreement of the compared records.

2,641,409
METHOD AND APPARATUS FOR COUNTING SELECTED ELECTRICAL TRANSIENTS
Robert H. Dicke, Princeton, N. J.
Application July 16, 1948, Serial No. 39,164
33 Claims. (Cl. 235—92)



10. In an electrical device, a source of two kinds of transient groups of electrical impulses, the number, shape, time duration, and time spacing of the impulses of each group of one kind being such that each said group of said one kind has a lowest frequency minimum amplitude component at a known predetermined frequency substantially higher than zero frequency in the resolution of the group into the continuous sinusoidal frequency spectrum thereof; the number, shape, time duration, and time spacing of the impulses of each group of the other kind being such that each said group has a lowest frequency minimum amplitude component at a frequency higher than said known frequency in the resolution of the group into the continuous sinusoidal frequency spectrum thereof; and a receiver connected to said source to receive said groups, said receiver being tuned to said known predetermined frequency, thereby to derive a receiver response to the occurrence of groups of said other kind to the exclusion of groups of said one kind.

2,641,410
CALCULATING MACHINE WITH RACK DRIVE
Cyrill Ochsner, St. Gallen, Switzerland
Application December 7, 1949, Serial No. 131,802
In Switzerland December 9, 1948
5 Claims. (Cl. 235—138)

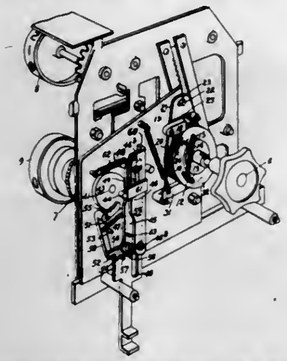


1. In a decimal transfer mechanism, a traveling carriage for each denominational column, a rack associated with said carriage and adapted to be engaged by the latter on the forward run thereof, counter wheels, toothed wheels for driving said counter wheels, a plurality of displaceably guided tooth pawls adapted to engage and lock the toothed wheels after setting of the counter wheels by said racks, means cooperating between said racks and pawls for actuating the said pawls in dependency on the movement of said carriage or carriages, the said rack or racks being adapted to set the counter wheels through the toothed wheels on the forward run of the racks and to be taken along on the backward run of the carriage in inactive position, abutment levers pivoted on said pawls, means normally maintaining said abutment levers in an inactive position in the absence of a decimal transfer, means cooperating between said counter wheels and said last named means for operating the latter to permit said abutment levers to move to active position to effect a decimal transfer, and means cooperating between said abutment levers to effect the decimal transfer during the backward run of said carriages.

2,641,411
ZEROIZING MECHANISM FOR COMPUTER MACHINES
Thomas Andrew Bell, Petersham, near Sydney, New South Wales, Australia, assignor of one-half to Edwin Stanly Sutton, Gordon, near Sydney, New South Wales, Australia
Application December 12, 1951, Serial No. 261,181
In Australia December 20, 1950
5 Claims. (Cl. 235—144)

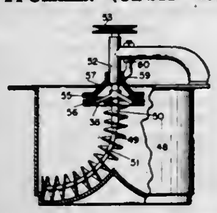
5. In computer mechanism a zeroising mechanism consisting of a hand operated zeroising shaft geared to the quantity dial shafts and price dial shafts, two discs on said shaft, each said disc having a step catch on the periphery thereof, one disc being fixed to said shaft and the other having a limited rotary movement thereon, a spring arranged to pull said "free" disc so that its catch is out of line with the catch on the fixed disc, a stepped pawl pivoted on a frame adapted to be pulled into engagement with said stepped catches on the discs by a spring, a plate having a limited rotary movement relative to said zeroising shaft, a lift pin on said plate adapted on movement of said plate to lift said pawl, an arm pivoted on said plate having a V projection thereon adapted to be drawn into engagement with a pin on said

fixed disc by a spring, said fixed disc having on the periphery thereon a catch slot with slide in edges, an arm pivoted to a frame having a roller on the free end and a spring to draw said roller into engagement with said catch slot, said roller being adapted to assist in stopping the fixed disc at the position where its stepped catch registers with the stepped pawl, a segment of a disc on one of the shafts of the quantity or price dial gear, said disc having a stop pin projecting from the face thereof, a vertically slidable switch control plate having a stepped edge one part of which



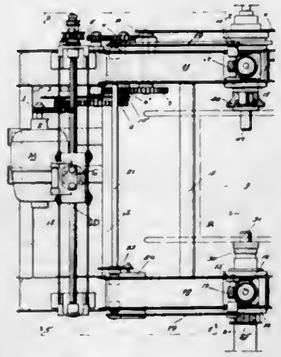
registers with the chord edge of the disc when in the "on" position, the other part of said plate permitting rotary movement of said disc when the plate is in the "off" position, a bell crank having one limb held against a step on the edge of the plate by a spring when said plate is in the "off" position, said limb having a trip pin thereon, the other limb of said bell crank being in the track of the stop pin on the disc and adapted to be actuated thereby, a latch arm pivoted on said plate adapted to engage said trip pin and hold the first limb of said bell crank clear of said step.

2,641,412
FEED MIXER AND GRINDER
Jonas J. Byberg, Silverton, Oreg.
Application May 23, 1951, Serial No. 227,862
14 Claims. (Cl. 241—98)



14. In a feed mixer of the character described, a mixing tank having a side wall and bottom, a mixing auger, the upper portion of said auger having a shaft positioned centrally and vertically in said tank, the lower portion of said auger extending over said tank bottom to said side wall and resting on and in contact with said tank bottom, means for rotating said auger, a pair of cooperating grinding rings positioned near the top of said auger and coaxial with said auger shaft, whereby some of the material from said tank when thrown by centrifugal force from the top of said auger will be engaged by said grinding rings, stationary supporting means for one of said rings, means carried by said auger shaft for supporting the other of said rings and causing said latter mentioned ring to be rotated in unison with said shaft, and means for adjusting one of said rings with respect to the other in axial direction.

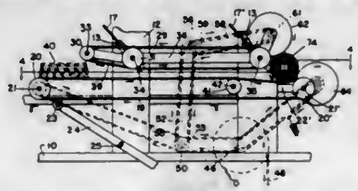
2,641,413
CABLE REEL TAKE-UP
Carl O. Bruestle, Rahway, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey
Application January 20, 1947, Serial No. 723,144
5 Claims. (Cl. 242—54)



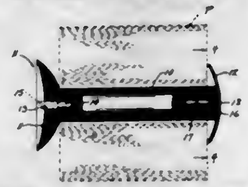
1. In a cable reeling take-up machine, a combination for receiving an empty reel, grasping it, moving it into loading position and then returning it, the improvement comprising a supporting framework, a pair of journal boxes mounted in said framework along the axis corresponding essentially to the axis of a cable reel to be received, said boxes being in spaced relation and mounted for vertical sliding movement, power means for effecting simultaneous movement of said journal boxes, a stub shaft rotatably mounted in one of said journal boxes in fixed position such that said power means effects simultaneous movement of said journal boxes substantially perpendicular thereto and having associated therewith driving dogs for engaging a cable reel slipped onto said stub shaft, a power transmission for driving said stub shaft in any of its vertical positions, a second stub shaft aligned axially with said first stub shaft and means for slidably mounting said second stub shaft in place holding said cable reel, said stub shaft power transmission including a driven sleeve, a shaft splined therein, and means for detachably securing said shaft to said splined shaft.

2,641,414
WRAPPING MACHINE
Charles P. Dyken, Saukville, Wis.
Application May 2, 1950, Serial No. 159,464
4 Claims. (Cl. 242—55)

2. A wrapping device comprising a frame, two belt conveyers, one of said conveyers supported by said frame in a stationary manner, the other of said conveyers slidably supported on said frame, both of said conveyers disposed in parallel relation to one another, one above the other, and arranged to travel at equal speed and in the same direction at their contact faces, a pair of rollers, one of said rollers supported at the discharge end of said slidably supported conveyer, the other roller pivotally mounted on said frame at the discharge end of said stationary mounted conveyer, actuating means for actuating all of said conveyers and rollers, and means for pivotally raising and lowering the roller on the discharge end of said stationary mounted conveyer.

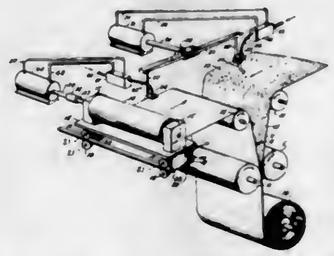


2,641,415
TOILET PAPER HOLDER
Benedict E. Moriarty, Kenosha, Wis.
Application January 23, 1952, Serial No. 267,849
1 Claim. (Cl. 242—55.2)



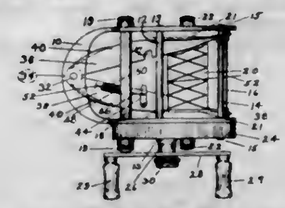
A toilet paper holder adapted to be detachably fixed to a wall surface comprising a one piece molded flexible rubber body including an elongated barrel portion adapted to extend into a roll of toilet paper to receive and support the same, a suction cup secured to one end of the barrel, a longitudinal central bore extending into said end of said barrel and opening out in the center of the suction cup, and a frangible glue capsule in said bore, whereby, when the flexible body is placed against a wall surface and pressure exerted about the longitudinal central bore, the capsule will break and the glue will flow between the wall surface and the suction cup.

2,641,416
APPARATUS FOR AND METHODS OF ALIGNING WEBS FOR LAMINATION
Jason L. McCleary and Roy E. Lowey, Jr., Mount Vernon, Ohio, assignors to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application October 7, 1950, Serial No. 188,914
4 Claims. (Cl. 242—76)



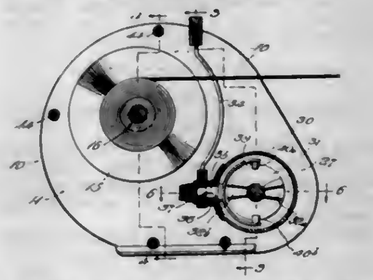
2. In the continuous lamination of a plurality of webs wherein the webs are run over support rolls and fed in between combining rolls, the improvement which comprises, allowing one of said webs to serve as a reference web, automatically following one edge of said control web as it weaves from side-to-side, and automatically shifting the support rolls on which the remaining webs are supported so as to shift the remaining webs into alignment with said reference web.

2,641,417
FISHING REEL
William P. Kinsey, St. Louis, Mo.
Application September 11, 1947, Serial No. 773,348
20 Claims. (Cl. 242—84.4)



20. In a fishing reel that has a frame, a rotatable line carrying spool, a crank to cause rotation of said spool, and a double-threaded worm gear that is geared to said spool, the improvement which comprises a pair of independently movable line guides, and means operable to releasably connect said line guides together and to said double-threaded worm gear, said means including a latch that is carried by one line guide and is releasably engageable with the other line guide.

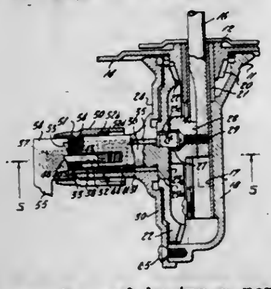
2,641,418
FISHING REEL
Joe Wheeler Miller, Port Orange, Fla.
Application April 25, 1947, Serial No. 743,740
4 Claims. (Cl. 242—84.4)



1. A fishing reel of the type having a frame, a spool supported for rotation in said frame to receive the line, traversing mechanism for the line supported in said frame, and a common drive means for said spool and traversing mechanism; in which said traversing mechanism comprises a line distributing member for feeding the line to said spool, means supporting said line distributing member in said frame for reciprocal movement lengthwise of said spool, and means supported in said frame and coacting with said line distributing member to impart reciprocal movement to the latter, said last named means comprising a cam and a cooperating cam follower, said cam having an operative cam surface of substantially uniform contour over the major portion of the length thereof and having a pronounced change

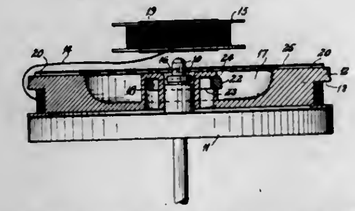
in contour adjacent each end of its throw for imparting to said follower, and thereby to said line distributing member, a substantially uniform displacement over the major portion of the traverse thereof and a relatively rapid displacement adjacent each end of the traverse thereof at both sides of the point of reversal, whereby piling up of the line adjacent the ends of the spool is avoided.

2,641,419
FISHING REEL
Lawrence Cowen, New York, and Nicholas N. Solovioff, Great Neck, N. Y., assignors to Airex Manufacturing Co., Inc., Long Island City, N. Y., a corporation of New York
Application April 30, 1949, Serial No. 90,726
13 Claims. (Cl. 242—84.5)



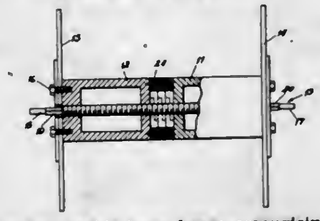
7. In a spinning reel having a non-rotating spool, a reduction gear-driven line-winding mechanism adapted to be rotated in one direction for winding line about the spool and on pull on the line to transmit torque in an unwinding direction, a one-way driving mechanism comprising a gear driving shaft, a handle having a hub threaded onto the end of the shaft for turning it in one direction, ratchet teeth on the hub, pawls reciprocable in directions parallel with the shaft axis, a spring pressing them toward the ratchet teeth, and a cam carrying sleeve for retracting the pawls from the teeth.

2,641,420
WIRE REEL FOR MAGNETIC WIRE RECORDERS
Howard L. Rumsey, Buffalo, N. Y., and Matthew C. Abbott, Greenwood, Mass., assignors, by mesne assignments, to Sylvania Electric Products Inc., New York, N. Y., a corporation of Massachusetts
Application April 16, 1949, Serial No. 87,864
9 Claims. (Cl. 242—118)



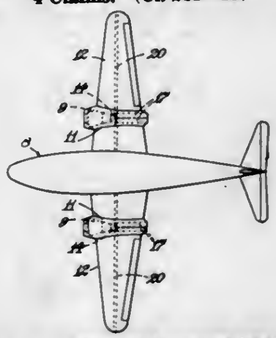
1. A wire reel for a magnetic-wire recorder, having a spindle for positioning and rotatably supporting the reel, comprising: a disc-like reel having a circumferential groove to receive a multiplicity of turns of magnetic wire, a central orifice to receive said spindle, and a concentric surface to receive and position a second wire reel in assembled concentric relation with said first reel; said first reel also having a notched surface to receive and anchor a length of unbroken wire wound upon both of said reels; and means carried by said first reel for engaging said second reel when said reels are in said assembled relation to restrain the tendency of said wire to cause relative angular rotation of said reels in said assembled relation.

2,641,421
ADJUSTABLE LOOM BEAM
John K. Cochran, Conyngham, Pa., assignor to The Duplan Corporation, Hazleton, Pa., a corporation of Delaware
Application December 22, 1948, Serial No. 66,609
8 Claims. (Cl. 242—124)



1. An adjustable loom beam comprising a barrel portion having head portions permanently fixed to the outer ends thereof and an axial shaft, said axial shaft being threaded throughout the length thereof, said barrel portion comprising two cylinders having inner concentric longitudinal threaded openings, each of said two cylinders being threadedly mounted on said shaft so as to move axially thereon, and spacers between the inner ends of said cylinders, each said spacer comprising arcuate sections placed in complementary relationship to form and complete an annular spacer.

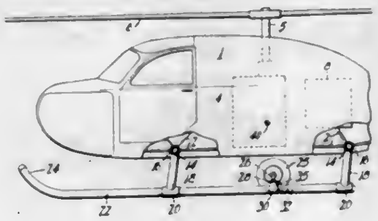
2,641,422
EXHAUST SYSTEM FOR GAS TURBINE ENGINES IN AIRCRAFT
George Oulianoff, Allestree, Derby, and Christopher Ainsworth Davis, Barrow-on-Soar, near Loughborough, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application March 8, 1949, Serial No. 80,124
In Great Britain February 18, 1947
4 Claims. (Cl. 244—15)



1. In an aircraft wing structure having a main spar; a gas-turbine engine mounted in the wing

structure forwardly of said main spar and an exhaust assembly for the engine, a construction of said exhaust assembly having a part which extends from forwards of the main spar to rearwards of the main spar, said part being formed by a plurality of exhaust pipe members having their axes in a common plane extending substantially parallel to the direction of normal flight, the exhaust pipe members having part-cylindrical wall portions joining adjacent part-cylindrical wall portions in cusp formations and there being means interconnecting the cusp formations between a pair of exhaust pipe members, and a duct section located forwardly of the main spar and said exhaust pipe members, said duct section having a single inlet connected to receive the exhaust gases from the engine and a plurality of outlets one connected to deliver exhaust gas to each of said exhaust pipe members.

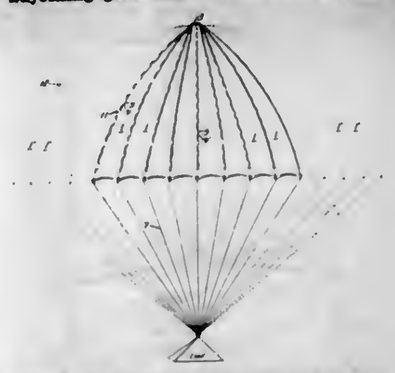
2,641,423
AIRCRAFT UNDERCARRIAGE
Thomas J. Harriman, Williamsville, and Francis P. Bassett, Lockport, N. Y., assignors to Bell Aircraft Corporation, Wheatfield, N. Y.
Application September 27, 1951, Serial No. 248,483
12 Claims. (Cl. 244—100)



1. A helicopter aircraft having an undercarriage comprising an elongated member rigidly connected to the aircraft to extend outwardly in a generally horizontal direction therefrom, and ground contact means fixed to extend downwardly from an outwardly extending portion of said member, said member being an aluminum alloy metal tube having a diameter to wall-thickness factor in the neighborhood of 18, said member being thereby adapted to convert aircraft crash landing energy when applied thereto into permanent plastic deformation of said member without buckling thereof while providing therein substantially constant resistance to plastic deformation.

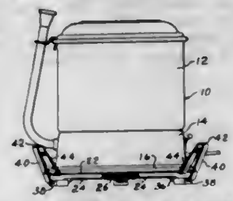
2,641,424
VARIABLE DIAMETER PARACHUTE CANOPY
Harold J. Moran, West Pittston, Pa., assignor to Mead Aviation Equipment Company, Trenton, N. J., a corporation of New Jersey
Application April 5, 1950, Serial No. 154,011
12 Claims. (Cl. 244—145)

1. A parachute canopy comprising a plurality of interchangeable gores arranged in side-by-side relation, said gores being identical in size, and readily detachable lacing means connecting the side edge of each gore to the adjacent side edge of an adjoining gore whereby the load capacity of



the parachute may be varied by changing the number of gores that make up the canopy.

2,641,425
SUPPORT
Erik Ostberg, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application June 20, 1950, Serial No. 169,180
3 Claims. (Cl. 248—18)

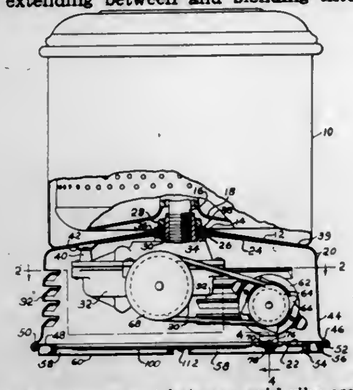


3. In a vibration absorbing appliance support, at least three radial arms, a central plate for said arms, each of said arms being pivotally connected to said plate, and each of said arms and said plate having cooperating detent means for securing said arms in radial position, each of said arms having a foot, and an upstanding hanger support, an appliance support ring, and flexible means for hanging said support ring from said upstanding hanger supports.

2,641,426
MOTOR AND TRANSMISSION COMPARTMENT FOR WASHING MACHINES
Elbridge F. Rauscher, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application March 17, 1949, Serial No. 81,963
6 Claims. (Cl. 248—22)

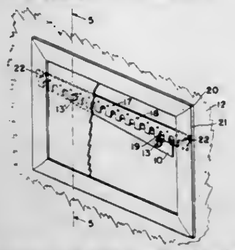
3. In a single tub washing machine, a motor and transmission compartment, comprising spaced substantially horizontal plates, the lower plate being circular, the upper plate being adapted to support a tub, having a circular depending skirt extending to the circular edge of the lower plate, and being outwardly flared, and having its marginal edge together with the marginal edge of the lower plate rolled together beneath the lower plate to form a rolled flange around the edge of the lower plate, said lower plate having an annular downwardly directed off-

set radially inwardly spaced from said rolled flange to provide an annular inverted circular channel, and having spaced chordal stiffening ribs extending between and blending into said



offset, a motor mount between said ribs comprising a bracket having offset attachment portions secured to said bottom plate at either end, and bonded rubber insulation over the other portions and a motor insulatingly mounted thereon.

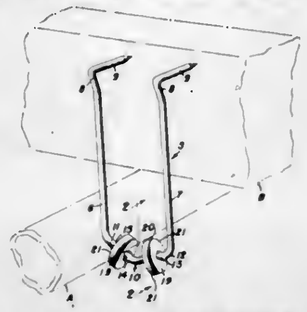
2,641,427
PICTURE HANGER
Jens I. Krogh, Alpharetta, Ga., assignor of one-half to Brevard Williams, Atlanta, Ga.
Application December 10, 1949, Serial No. 132,266
2 Claims. (Cl. 248—28)



1. In apparatus of the class described, an elongated strip having a plurality of longitudinally spaced holes therethrough, a plurality of retaining screws cooperating with said holes for attaching said strip to a supporting surface, each of said screws having a threaded shank inserted through one of said holes and a shoulder portion larger than said holes, an attaching strip having a plurality of notches longitudinally spaced along the bottom edge thereof, said notches being spaced apart the same distance as the holes in said elongated strip, and means for attaching said attaching strip to an article to be supported, certain of said notches cooperating with said screws for removably supporting said article on said supporting surface.

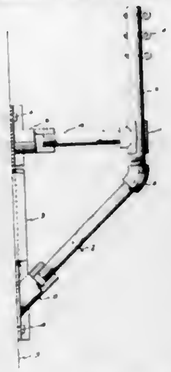
2,641,428
PIPE HANGER WITH GLIDE ROLLERS
John B. Kirk and George E. Miller, Rome, N. Y.
Application June 23, 1949, Serial No. 100,778
2 Claims. (Cl. 248—55)

1. A pipe hanger of the class described comprising a substantially U-shaped wire hanger embodying complemental opposed limbs having attaching means at their free end portions and including a V-shaped bight portion, said bight portion having downwardly converging complements provided with surface deformations orderly arranged and providing longitudinally spaced sets of diametrically opposite nodules, said nodules defining shoulders and said shoulders defining intervening journals between them-



selves, and anti-friction rollers mounted for free rotation on the respective journals, said anti-friction rollers being of uniform cross-sectional thicknesses and thus providing substantially flat peripheral edge portions and having their upper half-portions canted and converging toward each other within the limits of the hanger and having their lower half-portions spread and diverging away from each other.

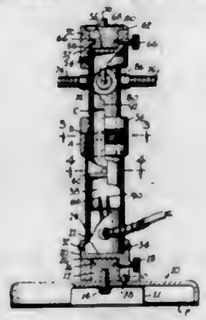
2,641,429
BRACKET DEVICE
Frank J. Kozak, Yankton, S. Dak.
Application May 17, 1949, Serial No. 93,743
1 Claim. (Cl. 248—65)



In combination, a plate adapted to be secured to a vertical surface of a support, a first threaded socket projecting from one side of the plate at one end of the plate and inclined outwardly and upwardly toward the other end of the plate, a second threaded socket projecting from said one side of the plate at the other end of the plate at right angles to the plate, a diagonal brace comprising a pipe section having one end thereof threaded in said first socket and having a third socket threaded on its other end, said third socket having an upwardly facing threaded portion

parallel to said plate, a horizontal arm having one end threaded in said second socket and having a fitting on its other end including a sleeve axially aligned with said upwardly facing portion of said third socket, and a shaft slidably extended through said sleeve and having an end threaded in said third socket.

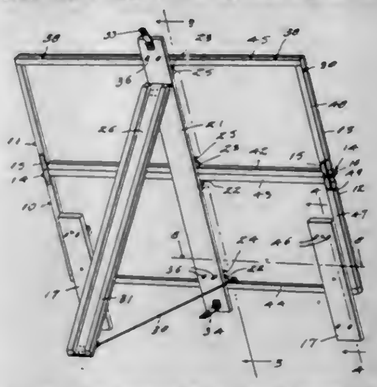
2,641,430
ADJUSTABLE CAMERA AND SPOTLIGHT SUPPORT
Abraham Secofsky and Murray A. Meisel, Brooklyn, and Alexander Zalman, Kew Gardens Hills, N. Y.
Application June 11, 1951, Serial No. 230,882
1 Claim. (Cl. 248—161)



An adjustable standard of the character described comprising a base, a cylindrical casing removably and adjustably fixed to said base, a split sleeve fixed to the inside of said cylindrical casing, the split in said sleeve extending longitudinally thereof and constituting a key-way, a second sleeve slidably mounted in the split sleeve, a key on said second sleeve which rides in said key-way and prevents relative angular movement between said second sleeve and said cylindrical casing, a lock on said cylindrical casing mounted for engagement with said second sleeve to lock said second sleeve in any desired axial position relative to said cylindrical casing, said lock comprising a split ring which rests on top of the cylindrical casing and encircles said second sleeve and a locking nut which encircles the split ring and which is in screw-threaded engagement with the cylindrical casing, said locking nut having a tapered annular internal shoulder and said split ring having a complementarily tapered edge which is in engagement with said tapered shoulder of the locking nut whereby the split ring is compressed against said second sleeve by said locking nut to frictionally lock said second sleeve in place when said locking nut is turned in one direction and whereby the split ring is released from engagement with said second sleeve when the locking nut is turned in the opposite direction.

2,641,431
KNOCKDOWN DISPLAY STRUCTURE
Allen M. Tucker, Tulsa, Okla.
Application March 20, 1950, Serial No. 150,701
2 Claims. (Cl. 248—197)

1. A knockdown display unit comprising a plurality of hingedly secured together panels, an elongated brace, inter-engaging locking means carried by the rear of said panels and the forward side of said brace for detachably securing said brace to said panels to thereby hold the latter in open, operative edge-aligned position, a pair of legs, inter-engaging locking means carried by said legs and an associated panel for detachably securing said legs to said associated panel, an intermediate leg, means hingedly securing said intermediate leg to the upper portion of said brace, means limiting the angular adjust-



ment of said intermediate leg relative to said brace, and correlated means carried by said legs, said brace and the marginal portions of said panels for securing said legs and brace about the marginal portions of said panels when the latter are in folded collapsed position.

2,641,432
WIRE BRACKET FOR TUBULAR RAILS
Frank A. Bielak, Fairview Park, and William H. Neely, Cleveland, Ohio, assignors to The Universal Wire Spring Company, Bedford, Ohio, a corporation of Ohio
Application March 24, 1951, Serial No. 217,386
9 Claims. (Cl. 248—223)

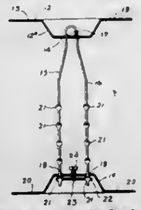


1. The combination of a tubular, perforated rail member with a wire bracket structure including cooperating, symmetrically shaped wire members, said wire members having hook-shaped arm means and the hook-shaped arm means of one wire member being arranged in inverted position with respect to the arm means of the other hook-shaped member, said hook-shaped arm means being extended through the perforations of said rail member thereinto and tilted into forcible contact with the wall of said rail member to secure the wire bracket structure to said rail member when the wire members are extended into said rail tilted to predetermined positions and locked in such positions to permit free removal of the wire bracket structure from the rail member when the wire members are unlocked and tilted to other positions.

2,641,433
SUSPENSION FOR LIGHTING FIXTURES
Howard L. Wright, Leaside, Ontario, Canada, assignor to Curtis Lighting of Canada Limited, Toronto, Ontario, Canada
Application November 15, 1949, Serial No. 127,285
6 Claims. (Cl. 248—343)

1. A hanger for suspending an object, said hanger comprising a pair of spaced apart nor-

mally substantially parallel and substantially vertically disposed rods, each rod having a plurality of spaced apart shoulders, a bracket adapted to be secured to the object, the bracket having a pair of apertures therein through which the rods pass, and a supporting member adapted selectively to engage the shoulders on the rods



below the bracket, said rods being adapted to be spread apart and returned to their normally substantially parallel relationship for disengagement and engagement with the supporting member, and spacing means located between the bracket and the supporting member whereby the supporting member supports the bracket.

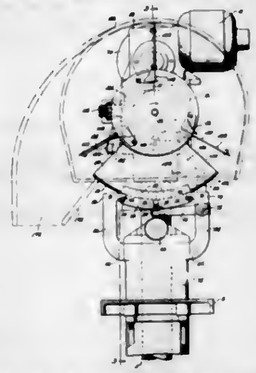
2,641,434
SHOCK AND VIBRATION ISOLATING MOUNTING
Richard C. Henshaw, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application September 8, 1947, Serial No. 772,747
13 Claims. (Cl. 248—358)



1. A shock and vibration mounting alternatively usable to isolate vibration during use or to isolate shock during shipping comprising a body of rubber having a pair of spaced connections for connection respectively to a supporting and a supported member, said connections being separated by a section of rubber proportioned to isolate vibration, another connection in said body separated from one of said pair of connections by a section of rubber proportioned to isolate shock and forming with said one connection an alternative pair of connections for connection respectively to said supporting and supported member during shipping to isolate shock, said other connection being disconnectible.

2,641,435
MATERIAL DISCHARGING MEANS
James C. Petrea, Durham, N. C., assignor to Wright Machinery Company, Durham, N. C., a corporation of North Carolina
Application August 3, 1951, Serial No. 240,254
11 Claims. (Cl. 249—45)

1. In a weighing apparatus; a stationary frame having an abutment thereon, a material receiving pan mounted for weighing movement on said frame, stop means fixed on said pan, the said abutment being in alignment with the path of movement of said stop means, holding means operable in response to completion of a weighing cycle to move said pan along said path and engage and hold said stop means against said abutment and thereby to hold said pan in a predetermined position, and further means movably mounted on said frame for movement across



and closely adjacent the material-holding surface of said pan to sweep weighed material therefrom while said stop means is held against said abutment.

2,641,436
AUTOMATIC WEIGHER
Herman Schmid and Albert P. Hobush, Kingston, N. Y., assignors to Incoro, Inc., Kingston, N. Y., a corporation of New York
Application December 16, 1949, Serial No. 133,426
1 Claim. (Cl. 249—60)

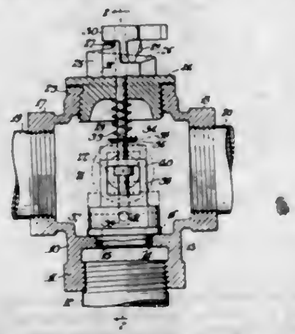


Apparatus for feeding prepared material from a machine having a housing with a feed chute and a motor to operate the machine, said apparatus comprising a supporting member adjacent the chute for a receptacle, angle-shaped arms each having a horizontal portion under said member, bearings on said portions and said member for movably mounting said member on said portions, said arms also having vertical portions, vertical posts at the sides of said member adjacent said vertical portions, a pin supported by said posts and engaging said vertical portions for pivotally mounting said arms on said posts, upright arms affixed to said member and extending above said member, links pivotally connecting said upright arms to said posts above said pin, an adjustable counterweight, a horizontal shank rigid with said angle-shaped arms, carrying said adjustable counterweight, and a switch device on said posts controlled by the movement of said angle-shaped arms to stop the motor and machine when a predetermined quantity of said material has been delivered to said receptacle.

2,641,437
CHECK VALVE WITH SUPPLEMENTAL CAM ACTUATOR
Carl Jay, Bernard Jay, and Jules Jay, Philadelphia, Pa.
Application May 3, 1948, Serial No. 24,884
2 Claims. (Cl. 251—131)

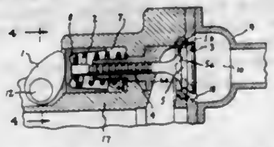
1. A valve comprising a body having an inlet and three correlated outlets, at least two of said outlets being directly opposite each other

and at right angles to the inlet, a valve seat about the inlet, a neck on said body directly opposite the inlet, a cap removably mounted in said neck, a valve stem projected through said cap and slidably and rotatably assembled in the cap, a spring to automatically constantly urge said stem inwardly, means at the outer end of said stem to rotate and cause it to slide out-



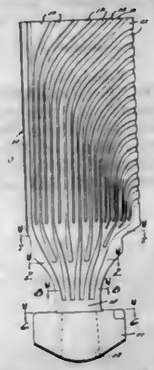
wardly and permit it to be moved inwardly, a collar on said stem adjacent the inner end thereof, and a valve plug slidably mounted on said stem outwardly of said collar whereby said valve plug freely reciprocates on said stem when the latter is in such position that said valve plug can engage the valve seat, said collar engaging the valve plug to bodily lift said valve plug when the stem is moved outwardly.

2,641,438
DELAYED OPENING POPPET VALVE FOR STEAM ENGINES
Harry M. Arnold, Golden, Colo.
Original application August 17, 1945, Serial No. 611,117. Divided and this application April 10, 1946, Serial No. 660,979
1 Claim. (Cl. 251—132)



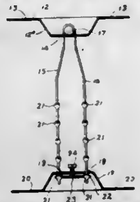
Poppet valve mechanism for an engine including a cylinder block having a cylinder therein, said valve mechanism being supported by the block and comprising a valve stem mounted for axial reciprocation within an elongated valve stem guide member, said stem being provided with a series of axially spaced oil collecting grooves, said guide member being supported in said block and having one end thereof projecting centrally within a cylindrical open ended recess in the block, a coil spring disposed within said recess in encircling relation to said stem and said one end of the guide member and having its opposite ends reacting upon the end wall of said recess and an abutment on said stem for yieldably urging the stem toward the open end of said recsss, a cylindrical cup-shaped follower member disposed within said recess and including an end wall engaging the corresponding end of said stem and exposed through the open end of said recess and a cylindrical wall within which the adjacent ends of said valve stem and said spring are disposed, a follower actuating cam supported on a shaft whose axis is disposed laterally of the axis of said stem and at right angles thereto and which shaft is oscillatably supported by said block, said cam having a convex surface engageable with said follower end wall and operative to axially move said stem against the action of said spring, a valve head seat member supported by said block in concentric relation to said stem, said valve seat member being provided with a circular valve head seating face on the outer lateral side thereof and a fluid admission port in said seat member having a cylindrical wall extending directly inwardly from said seating face and said valve stem extendable through said port, a valve head on the opposite end of said stem having a seating face for cooperating with the seating face on said seat member, a skirt projecting directly inwardly from said seating face and having an outer cylindrical surface adapted to be disposed within and in substantial engagement with said cylindrical wall in the seated position of said valve head, and said skirt being of a length less than the range of movement of said head between its seated position and its maximum open position.

2,641,439
COOLED TURBINE OR COMPRESSOR BLADE
Samuel B. Williams, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 1, 1947, Serial No. 777,310
12 Claims. (Cl. 253—39.15)



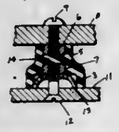
1. A blade comprising a cast metal member having a plurality of ridges and grooves between the ridges and electrolytically deposited plating metal covering and alloyed with the ridges and bridging the grooves so as to cooperate with the grooves to form cooling passages adjacent one surface of the blade, said blade having a hub portion provided with an opening with which said grooves and passages establish communication, said grooves corresponding in number to said passages and including at least first, second, and third sets of grooves in series by sets in that order leading toward the hub opening, said second set of grooves being fewer in number than said first set and said third set being fewer in number than said second set, said first set of grooves combining at least by two's to form the grooves of said second set and said second set of grooves combining at least by two's to form the grooves of said third set.

mally substantially parallel and substantially vertically disposed rods, each rod having a plurality of spaced apart shoulders, a bracket adapted to be secured to the object, the bracket having a pair of apertures therein through which the rods pass, and a supporting member adapted selectively to engage the shoulders on the rods



below the bracket, said rods being adapted to be spread apart and returned to their normally substantially parallel relationship for disengagement and engagement with the supporting member, and spacing means located between the bracket and the supporting member whereby the supporting member supports the bracket.

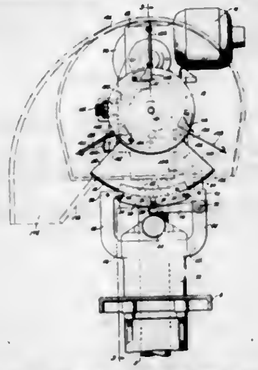
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Richard C. Henshaw, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application September 8, 1947, Serial No. 772,747
13 Claims. (Cl. 248—358)



1. A shock and vibration mounting alternatively usable to isolate vibration during use or to isolate shock during shipping comprising a body of rubber having a pair of spaced connections for connection respectively to a supporting and a supported member, said connections being separated by a section of rubber proportioned to isolate vibration, another connection in said body separated from one of said pair of connections by a section of rubber proportioned to isolate shock and forming with said one connection an alternative pair of connections for connection respectively to said supporting and supported member during shipping to isolate shock, said other connection being disconnectible.

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Application August 3, 1951, Serial No. 240,254
11 Claims. (Cl. 249—45)

1. In a weighing apparatus; a stationary frame having an abutment thereon, a material receiving pan mounted for weighing movement on said frame, stop means fixed on said pan, the said abutment being in alignment with the path of movement of said stop means, holding means operable in response to completion of a weighing cycle to move said pan along said path and engage and hold said stop means against said abutment and thereby to hold said pan in a predetermined position, and further means movably mounted on said frame for movement across



and closely adjacent the material-holding surface of said pan to sweep weighed material therefrom while said stop means is held against said abutment.

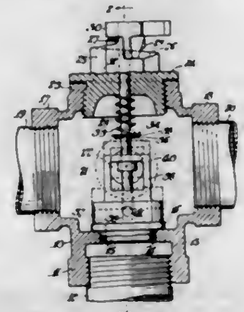
2,641,436
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Herman Schmid and Albert P. Hobush, Kingston, N. Y., assignors to Incoro, Inc., Kingston, N. Y., a corporation of New York
Application December 16, 1949, Serial No. 133,426
1 Claim. (Cl. 249—60)



Apparatus for feeding prepared material from a machine having a housing with a feed chute and a motor to operate the machine, said apparatus comprising a supporting member adjacent the chute for a receptacle, angle-shaped arms each having a horizontal portion under said member, bearings on said portions and said member for movably mounting said member on said portions, said arms also having vertical portions, vertical posts at the sides of said member adjacent said vertical portions, a pin supported by said posts and engaging said vertical portions for pivotally mounting said arms on said posts, upright arms affixed to said member and extending above said member, links pivotally connecting said upright arms to said posts above said pin, an adjustable counterweight, a horizontal shank rigid with said angle-shaped arms, carrying said adjustable counterweight, and a switch device on said posts controlled by the movement of said angle-shaped arms to stop the motor and machine when a predetermined quantity of said material has been delivered to said receptacle.

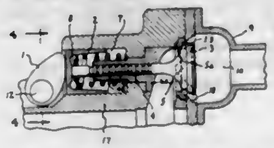
2,641,437
CHECK VALVE WITH SUPPLEMENTAL CAM ACTUATOR
Carl Jay, Bernard Jay, and Jules Jay, Philadelphia, Pa.
Application May 3, 1948, Serial No. 24,884
2 Claims. (Cl. 251—131)

1. A valve comprising a body having an inlet and three correlated outlets, at least two of said outlets being directly opposite each other and at right angles to the inlet, a valve seat about the inlet, a neck on said body directly opposite the inlet, a cap removably mounted in said neck, a valve stem projected through said cap and slidably and rotatably assembled in the cap, a spring to automatically constantly urge said stem inwardly, means at the outer end of said stem to rotate and cause it to slide out-



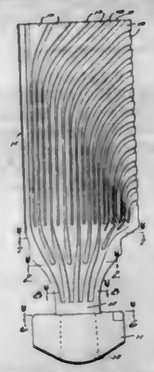
wardly and permit it to be moved inwardly, a collar on said stem adjacent the inner end thereof, and a valve plug slidably mounted on said stem outwardly of said collar whereby said valve plug freely reciprocates on said stem when the latter is in such position that said valve plug can engage the valve seat, said collar engaging the valve plug to bodily lift said valve plug when the stem is moved outwardly.

2,641,438
DELAYED OPENING POPPET VALVE FOR STEAM ENGINES
Harry M. Arnold, Golden, Colo.
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1 Claim. (Cl. 251—132)



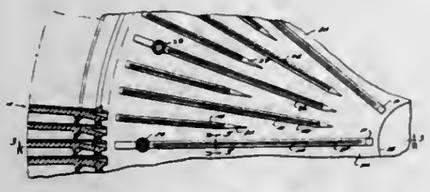
Poppet valve mechanism for an engine including a cylinder block having a cylinder therein, said valve mechanism being supported by the block and comprising a valve stem mounted for axial reciprocation within an elongated valve stem guide member, said stem being provided with a series of axially spaced oil collecting grooves, said guide member being supported in said block and having one end thereof projecting centrally within a cylindrical open ended recess in the block, a coil spring disposed within said recess in encircling relation to said stem and said one end of the guide member and having its opposite ends reacting upon the end wall of said recess and an abutment on said stem for yieldably urging the stem toward the open end of said recsss, a cylindrical cup-shaped follower member disposed within said recess and including an end wall engaging the corresponding end of said stem and exposed through the open end of said recess and a cylindrical wall within which the adjacent ends of said valve stem and said spring are disposed, a follower actuating cam supported on a shaft whose axis is disposed laterally of the axis of said stem and at right angles thereto and which shaft is oscillatably supported by said block, said cam having a convex surface engageable with said follower end wall and operative to axially move said stem against the action of said spring, a valve head seat member supported by said block in concentric relation to said stem, said valve seat member being provided with a circular valve head seating face on the outer lateral side thereof and a fluid admission port in said seat member having a cylindrical wall extending directly inwardly from said seating face and said valve stem extendable through said port, a valve head on the opposite end of said stem having a seating face for cooperating with the seating face on said seat member, a skirt projecting directly inwardly from said seating face and having an outer cylindrical surface adapted to be disposed within and in substantial engagement with said cylindrical wall in the seated position of said valve head, and said skirt being of a length less than the range of movement of said head between its seated position and its maximum open position.

2,641,439
COOLED TURBINE OR COMPRESSOR BLADE
Samuel B. Williams, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 1, 1947, Serial No. 777,310
12 Claims. (Cl. 253—39.15)



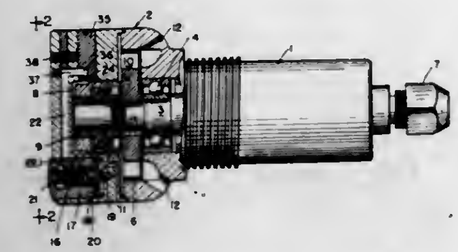
1. A blade comprising a cast metal member having a plurality of ridges and grooves between the ridges and electrolytically deposited plating metal covering and alloyed with the ridges and bridging the grooves so as to cooperate with the grooves to form cooling passages adjacent one surface of the blade, said blade having a hub portion provided with an opening with which said grooves and passages establish communication, said grooves corresponding in number to said passages and including at least first, second, and third sets of grooves in series by sets in that order leading toward the hub opening, said second set of grooves being fewer in number than said first set and said third set being fewer in number than said second set, said first set of grooves combining at least by two's to form the grooves of said second set and said second set of grooves combining at least by two's to form the grooves of said third set.

2,641,440
TURBINE BLADE WITH COOLING MEANS AND CARRIER THEREFOR
Samuel B. Williams, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 18, 1947, Serial No. 786,679
12 Claims. (Cl. 253—39.15)



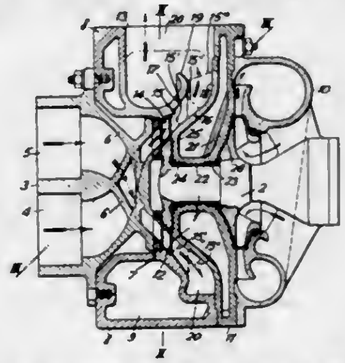
1. An assembly comprising a row of circumferentially aligned successive turbine blades each having an enlarged root provided with curved shoulder surfaces curving in the direction of the circumferentially aligned blades on both sides, and a carrier formed of mating parts embracing the root portions and including grooves receiving the root portions of the blades, the grooves having circumferentially curved surfaces formed according to a cylindrical path of revolution and engaged by the curved surfaces of the blade roots, the radius of curvature of the blade-root curved surfaces being smaller than that of the carrier-part-groove curved surfaces to provide for angular rolling movement of the blades with respect to the carrier and in the plane of the latter due to rocking of the aforesaid root curved surfaces on the aforesaid carrier curved surfaces.

2,641,441
TURBINE GOVERNOR
Arne Nilsen and Rudolph F. Onsrud, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1951, Serial No. 212,148
9 Claims. (Cl. 253—59)



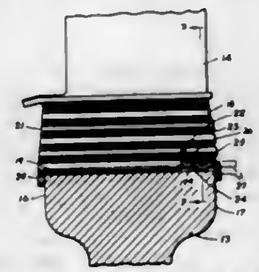
1. A centrifugal governor comprising a rotary member, a centrifugally expansible elastic annular body driven by said rotary member and secured with one end in fixed relation therewith, an axially shiftable sleeve surrounding and radially confining said body, inwardly projecting means on said sleeve engaging the other end of said body endwise, said body being expansible axially upon actuation by the centrifugal force of rotation thereof to shift said sleeve axially, and means interlocking said sleeve and the said other end of said body for causing retrograde motion of said sleeve upon elastic retraction of said body during decline of the centrifugal force acting thereon.

2,641,442
TURBINE
Alfred Büchi, Winterthur, Switzerland
Application May 8, 1947, Serial No. 746,671
In Switzerland May 10, 1946
12 Claims. (Cl. 253—65)



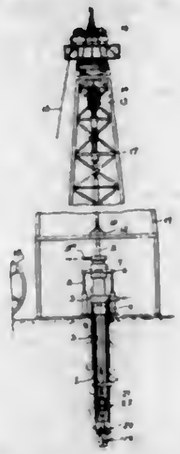
1. In a turbine having a rotor with blading adapted to receive pressure fluid therethrough in a direction having a substantial axial component, a pair of annular walls, both said walls being disposed apart from each other and having the turbine axis as their axis of symmetry, the first of said walls commencing in a circle substantially coinciding with the bases of the turbine blading, and the second of said pair of walls, surrounding the radially outer peripheries of the blading, both said walls extending in an initial direction coinciding substantially with the direction of the fluid flow through the blading, and said walls thereafter being directed at least partially radially outwardly and diverging from each other to form an annular diffusor for the pressure fluid.

2,641,443
ROTOR BLADE LOCKING
Peter Dennis Comery, Cooksville, Ontario, and Joseph Thompson Purvis, North York Township, York County, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application March 17, 1951, Serial No. 216,146
3 Claims. (Cl. 253—77)



1. A locking device for a blade of a rotary power conversion machine having a blade supporting member and blades provided with blade root members whereby they are demountably secured to the supporting member, the said members each having exposed opposite end faces and being in slidable relationship in a direction extending between the end faces and in interlocking relationship in another direction, comprising a stop element projecting from one and engaging the other of the said members to provide positive relative location of the root member with respect to the supporting member and with respect to one sense of the direction of slidable relationship, one of the said members having a recess located intermediately of its opposite end faces, and means cooperating with the recess for preventing relative movement of the root member with respect to the supporting member in the other sense of the direction of slidable relationship, which means includes a plate disposed between the said members and having projecting tabs at opposite edges, the plate having a thickened portion at which the opposite faces of the plate bear upon the said members, one of the tabs extending into the recess in the recessed member and the other of the tabs engaging an exposed face of the member not so recessed, the said other tab being bendable at the margin of the plate after assembly to so engage the said face.

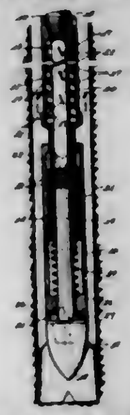
2,641,444
METHOD AND APPARATUS FOR DRILLING BOREHOLES
James Moon, Altadena, Calif., assignor to Signal Oil and Gas Company, Los Angeles, Calif., a corporation of Delaware
Application September 3, 1946, Serial No. 694,561
6 Claims. (Cl. 255—1.8)



3. A drilling device, a comprising a thrust collar, a central bore in said collar, a hollow shaft rotatably mounted in said central bore of said thrust collar, means for connecting one end of said shaft to a string of drill pipe, means for connecting the other end of said shaft to a rotary bore hole drill, a plurality of extensible pins in said collar, the axes of said pins being positioned at about 90° to the axis of said shaft.

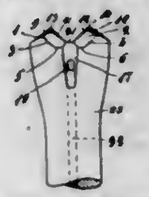
2,641,445
COMBINED ROTARY AND IMPACT DRILL WITH FLUID COUPLING
Robert E. Snyder, Los Angeles, Calif., assignor to Snyder Oil Tool Corporation, a corporation of California
Application November 7, 1949, Serial No. 125,925
15 Claims. (Cl. 255—3)

1. A rotary impact drill intended for connection to a rotatable drill stem, which includes: a rotary member adapted to be connected to said drill stem for movement therewith; a bit receiving member; a fluid coupling connected between said rotary member and said bit receiving member to rotate the latter at a speed less than that of said rotary member, whereby relative rotation beween said members is produced; a hammer reciprocably mounted on one of said members to deliver impacts to said bit receiving member;



and cam means operatively connected between said relatively rotating members and to said hammer to reciprocate the latter when relative rotation exists between said drill stem and said bit receiving member.

2,641,446
BORE CROWN FOR PERCUSSION DRILLING
Didrik Wilhelm Haglund, Sandviken, and Sven Erik Elström, Stockholm, Sweden, assignors to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden, a joint-stock company of Sweden
Application February 28, 1949, Serial No. 78,832
In Sweden February 28, 1948
9 Claims. (Cl. 255—64)

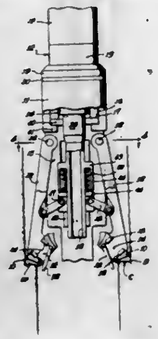


1. A rock drill or boring crown for percussion drilling including a drill head having a pair of inclined recesses diverging forwardly and disposed symmetrically with respect to the central axis at the working end of the drill head, each recess forming a seat for receiving and supporting a cutting element; and a pair of substantially flat plate-like cutting elements of substantially rectangular cross section, each having two relatively greater opposite sides of greater width than height and four narrow sides or edges, the cutting elements being individually mounted on the drill head with one of the relatively greater sides of each cutting element fitting in one of the recesses and the opposite relatively greater side of the cutting elements facing said central axis of said drill head in at least partly exposed open positions.

2,641,447
HOOK TOOTH ROTARY DRILL BIT AND CUTTER
Archer W. Kammerer, Fullerton, Calif.
Application January 9, 1950, Serial No. 137,537
2 Claims. (Cl. 255—76)

1. A conical side roller cutter for a rotary well drilling bit having peripheral teeth extending

from the large end of the cutter to its small end, the base portions of the teeth at the small end of the cutter being disposed outwardly of the normal base cone of the cutter and the tooth portions at the large end of the cutter having their outer ends extending transversely outward to a greatly increased extent beyond the outer ends of the adjacent intermediate tooth portions, the depth of each tooth portion at the large end



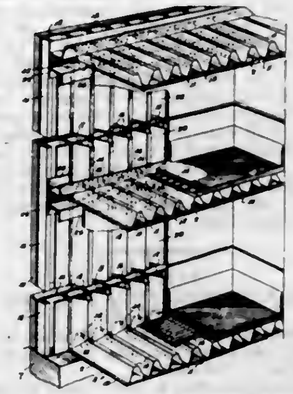
of the cutter being greatly increased over the depth of each intermediate tooth portion, the outer end portion of each tooth at the large end of the cutter being inclined to the axis of rotation of the cutter to a greater extent than the outer end of each intermediate tooth portion of the cutter, whereby the tooth portions at the large end of the cutter form hooks with the back cone portions of said teeth.

2,641,448
FENCING POST
Ivah Arthur Duke, Epsom, Auckland, New Zealand
Application September 10, 1951, Serial No. 245,799
In New Zealand September 18, 1950
5 Claims. (Cl. 256—48)



1. In a fence, an elongated post having at least one flat face extending longitudinally thereof, said post having a plurality of mutually closely spaced grooves extending transversely of said flat face only, mutually spaced fence wire members contacting said post, securing members encircling said post and each engaging a wire member on opposite sides of its respective post, and one of each mutually engaged wire and securing members lying in only a selected number of said grooves whereby the spacing of the wire members may be varied and additional wire members may be added without modifying said post.

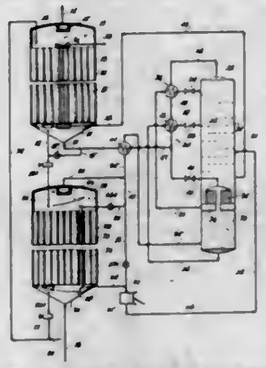
2,641,449
BUILDING CONSTRUCTION
John C. Antony, Pittsburgh, Pa.
Application November 14, 1947, Serial No. 786,129
3 Claims. (Cl. 257—8)



2. In a building construction comprising a combined floor and ceiling, side walls, upright channel members, and a three-channel support secured to the side wall, said side wall and said combined floor and ceiling being provided with upright and horizontal channel members, respectively, said three-channel support having one channel opening laterally and horizontally and receiving the adjacent ends of the horizontal channel members, said three-channel support also having channels opening upwardly and downwardly, respectively, and receiving the adjacent ends of the upright side wall channels, said three channels of the three-channel support being arranged substantially in superposed relation, said horizontal channel members having openings therein in both the top and bottom portions thereof, said three-channel support also having openings therein communicating with both horizontal and upright channel members whereby a conditioning fluid may be propelled through all of said channel members and said three-channel supports, all of said channel members and the three channel support being of sheet steel, in combination with an air conditioning unit, said channel members being otherwise closed whereby said building construction may be air conditioned solely by direct radiation from said channel members.

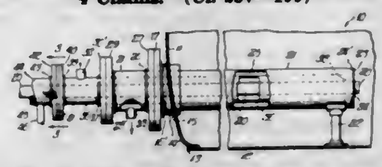
2,641,450
METHOD OF TRANSFERRING HEAT BY A POWDERED THERMOPHORE IN A STATE OF DENSE PHASE FLUIDIZATION
Paul W. Garbo, Freeport, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application October 19, 1946, Serial No. 704,416
13 Claims. (Cl. 257—55)

4. In the method of transferring heat from one gaseous medium to another wherein one gaseous medium is passed upwardly through a mass of powdered thermophore in a state of dense phase fluidization, another gaseous medium is passed upwardly through another mass of said thermophore in a state of dense phase fluidization, and said thermophore is circulated betwen the two said masses, the improvement which comprises dividing each of the two said masses in a plurality of longitudinally extending channels arranged in parallel, each of said channels having an effective size of a pipe having an internal radius falling within the range of from about ¼



inch to about 2 inches, and maintaining temperature gradients in opposite directions along the vertical dimension of the two said masses in a plurality of longitudinally extending channels.

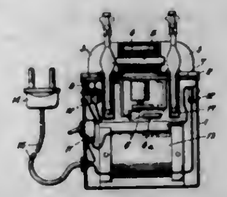
2,641,451
HEAT EXCHANGER
Edward W. Kaiser, Chicago, Ill.
Application November 4, 1950, Serial No. 194,173
4 Claims. (Cl. 257—199)



1. For combination with a tank containing a liquid to be maintained at an elevated temperature, a tank nipple for connection to a wall of the tank, an inner pipe extending through said tank nipple and opening into the tank through which the liquid therein can flow, an outer pipe extending through and having sealed connection to said tank nipple and surrounding and spaced from said inner pipe, an intermediate pipe extending into and having sealed connection to said outer pipe outside of said tank nipple, said intermediate pipe being spaced from said inner and outer pipes and constituting a baffle in the space therebetween, closure means within the tank between said outer and inner pipes, closure means without said tank between said intermediate and inner pipes, and conduit means connected to said outer and intermediate pipes without the tank for circulating through said space between said inner and outer pipes as directed by said baffle a heated fluid for maintaining the liquid in the tank and in said inner pipe at the elevated temperature.

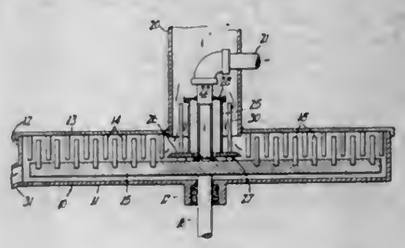
2,641,452
ELECTROMAGNETIC TYPE OF MIXER
Otto Wagner, Berlin-Schlachtensee, Germany
Application July 19, 1950, Serial No. 174,629
In Germany May 6, 1949
7 Claims. (Cl. 259—1)

1. Mixing apparatus comprising, in combination, a vessel of non-magnetic material for holding a liquid to be mixed; a mixing member located in said vessel, said mixing member being made of magnetic material; electromagnetic means comprising a solenoid and windings therearound, said solenoid having an end thereof located next to a side wall of said vessel, and said end of said solenoid having a shape corresponding to the shape of said vessel wall; and interrupter means



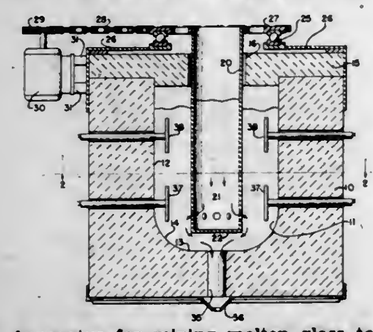
operatively connected to said windings for interrupting current flowing through the same so as to thereby interrupt magnetic forces emanating from said solenoid, whereby said mixing member is moved about in a liquid in said vessel by the interrupted magnetic forces emanated from said solenoid, so that the movement of said mixing member agitates the liquid.

2,641,453
PIN MIXER
Robert R. Teale, Snyder, N. Y., assignor to National Gypsum Company, Buffalo, N. Y.
Application April 21, 1951, Serial No. 222,170
7 Claims. (Cl. 259—8)



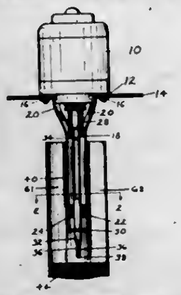
1. In a pin mixer, a generally cylindrical casing having a vertical axis and radially extending top and bottom walls, a plurality of stationary mixing pins projecting downwardly from the top wall of said casing, a discoidal rotor in said casing having a plurality of upwardly projecting mixing pins, located so as to pass between the stationary mixing pins upon rotation of said rotor, rotary drive means at the under side of said rotor, an inlet conduit communicating with said mixer concentrically through said top wall, and a second conduit extending within said first conduit centrally thereof and downwardly in said mixer substantially below the lower end of the first conduit, sleeve means carried by said rotor with its lower end adjacent to the lower end of said second conduit and extending upwardly between said conduits concentrically and spaced radially from both conduits, and a concentric cap carried by said second conduit and extending over the upper end of said sleeve means, whereby said cap and said sleeve means insure isolation of the materials of the two conduits until they merge in the mixing chamber.

2,641,454
APPARATUS AND METHOD FOR MIXING MOLTEN GLASS
Dominick Labino, Maumee, Ohio, assignor to Glass Fibers, Inc., Waterville, Ohio, a corporation of Ohio
Application January 27, 1951, Serial No. 208,126
11 Claims. (Cl. 259—8)



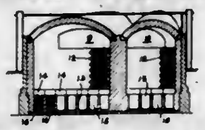
1. Apparatus for mixing molten glass to increase the homogeneity of the glass mixture, comprising, a receptacle for receiving and containing a body of molten glass, said receptacle having a centrally located discharge opening in the bottom wall thereof, a second receptacle positioned within said first receptacle axially of the discharge opening and having an open top forming an inlet opening for molten glass and a closed bottom, said second receptacle having the closed bottom in close proximity to said discharge opening and having a plurality of openings in the side wall thereof positioned in close proximity to the closed bottom of the receptacle, and means supporting said second receptacle relative to said first receptacle for rotation of said second receptacle within said first receptacle.

2,641,455
DEVICE WHICH AERATES WATER
Eugene M. Poirot, Lawrence County, Mo.
Application June 24, 1949, Serial No. 101,129
2 Claims. (Cl. 261—29)



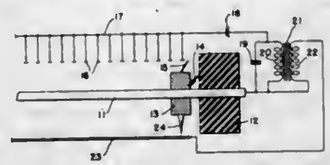
2. A water-aerating device that comprises an impeller which has an extended hollow shaft and a blade that extends transversely of said shaft and that projects radially outwardly beyond said shaft, said blade being of resilient material, an inlet in said shaft, an outlet in said shaft, a radially-extending plate disposed closely above said outlet, said plate coacting with water around said shaft to momentarily retard upward flow of air issuing from said outlet, a guard that telescopes over said impeller, recesses in said guard that extend coaxially of said guard, and a motor to rotate said impeller, said blade being dimensioned to engage said guard and be bent thereby as said shaft rotates, said blade being disposed intermediate the top and bottom of said guard and being adapted to draw water into the bottom of said guard and to draw air from said outlet, said blade moving said air and water out to the ends of said blade and urging that air and water into said recesses in said guard whereby said blade can dispel a mixture of water and air from the top of said guard.

2,641,456
HEAT RECOVERY APPARATUS
William E. Schmertz, Pittsburgh, Pa.
Application December 22, 1949, Serial No. 134,476
1 Claim. (Cl. 263—15)



In a regenerative heat recovery apparatus having a checker chamber and a flue, the invention comprising a plurality of reticulated baffle elements of relatively thin high temperature resistant sheet metal located in the flue adjacent the checker chamber and extending crosswise of the flue, the openings in the successive reticulated baffles being staggered relative to one another whereby gases may flow therethrough but a barrier is provided against direct radiation of heat, said metal baffles having a relatively small mass in proportion to their surface area so that they may quickly heat and cool.

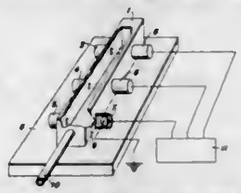
2,641,457
RECORDING DECELEROMETER
Henry Carleton, Silver Spring, Md.
Application December 22, 1948, Serial No. 66,695
15 Claims. (Cl. 264—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



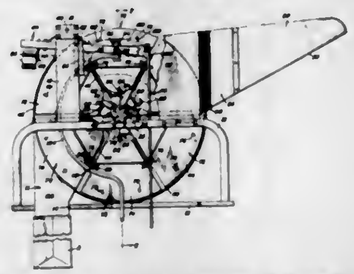
1. A device for measuring acceleration comprising means adapted to move with acceleration along a path, an oscillatory circuit, sliding contact means associated with the first means for energizing said circuit simultaneously with the onset of acceleration of the first means, and means coupled to said oscillatory circuit and adapted to record oscillations in the circuit.

2,641,458
ACCELEROMETER
John J. Gilvarry, Santa Monica, and David F. Rutland, Pacific Palisades, Calif., assignors to North American Aviation, Inc.
Application March 5, 1949, Serial No. 79,768
5 Claims. (Cl. 264—1)

1. Measuring means comprising a container subject to acceleration, means for projecting a plurality of small masses uniformly into said container in a predetermined direction, means for instantaneously sensing the presence of said masses at predetermined planes in the container, and means operably associated with said sensing means for measuring the time necessary for each of said masses to travel from one of said predetermined planes to another, to thereby obtain quantities of which the acceleration to which said container is subject in said predetermined direction is a function.
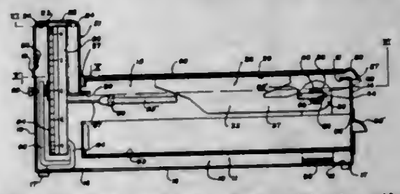


2,641,459
WEIGHING APPARATUS
Clifford B. McHale and Emil H. Janssen, Torrington, Wyo.; said Janssen assignor to said McHale
Application March 15, 1949, Serial No. 81,430
8 Claims. (Cl. 265—27)



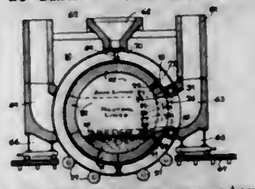
1. Weighing apparatus comprising a scale beam mounted to rock about a horizontal axis, a pair of spaced parallel cradles carried by the scale beam, an annular group of segmental shaped buckets mounted to move about a horizontal axis between the cradles, each bucket having a wholly open outer end, means for mounting the buckets for rotation and to permit radial movement thereof, means for moving the buckets radially relative to the last-mentioned horizontal axis, releasable means holding said buckets against radial movement; and lugs on each side of each bucket, said lugs projecting laterally from said buckets and engaging the cradles to support their respective buckets on the scale beam.

2,641,460
TORSION WEIGHING DEVICE
Kenneth R. Larson, Des Plaines, Ill.
Application February 23, 1946, Serial No. 649,485
3 Claims. (Cl. 265—68)

1. In a weighing scale, the combination with a housing, of a torsion resisting elongated member anchored at both extremities to said housing, spaced bracket arms anchored at one extremity to said torsion resisting elongated member to provide a support at the other extremity thereof free of said housing, a weight supporting platform member fixed to said last named bracket arm extremity to impart twist to said torsion resisting elongated member, a rod anchored at one extremity to said torsion resisting elongated member to extend between and parallel to said bracket arms, and calibrated indicating means in said housing in operative connection with the other extremity of said rod for displacement by said torsion resisting member to measure the twist thereof in terms of the weight supported on said platform.



2,641,461
BESSEMER CONVERTER
Reed Lewis, Pittsburgh, Pa., assignor to Crucible Steel Corporation of America, New York, N. Y., a corporation of New Jersey
Application May 17, 1951, Serial No. 226,815
13 Claims. (Cl. 266—36)

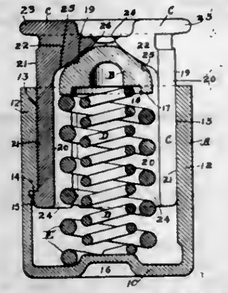


1. A side-blow bessemer converter, comprising: a vessel of generally closed configuration having a port formed therein for charging, pouring and escape of combustion products, tuyère means adjacent said port for introducing a gaseous oxidizing fluid under pressure into said vessel, said vessel being shaped to provide a pair of hearths, disposed on opposite sides respectively of said port, acid refractory means lining one said hearth and basic refractory means lining the other said hearth, said acid and basic refractory linings being spaced apart by an intermediate zone including said port, neutral refractory means lining said intermediate zone and separating said acid and basic linings from each other, and means mounting said vessel for rotation about an axis substantially perpendicular to the axis of said port whereby a charge of molten ferrous metal may be bessermized in said hearths successively.

2,641,462
FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
William E. Withall, Hinsdale, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 23, 1950, Serial No. 145,651
2 Claims. (Cl. 267—9)

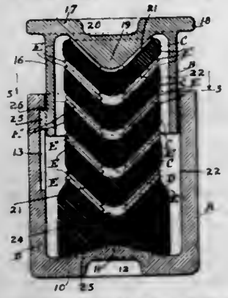
1. In a friction shock absorber, the combination with a friction casing; of elongated friction shoes slidingly telescoped within the casing, said shoes having lateral inward enlargements at their outer ends; a combined wedge and spring follower member inwardly of said enlargements, said member and enlargements of said shoes

having engaging wedge faces, said engaging wedge faces being rounded lengthwise; and spring means within the casing bearing at its



outer end on said combined wedge and spring follower member for yieldingly opposing inward movement of the latter.

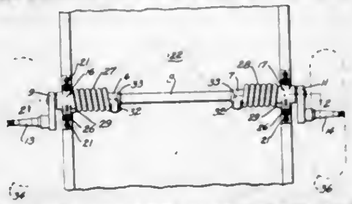
2,641,463
FRICTION SNUBBER FOR RAILWAY CAR TRUCK SPRINGS
Harry W. Mulcahy, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 1, 1950, Serial No. 153,457
9 Claims. (Cl. 267—9)



1. In a friction shock absorbing mechanism, the combination with a pair of members relatively movable toward and away from each other lengthwise of the mechanism; of yielding means interposed between and bearing on said members, respectively, said yielding means comprising a plurality of rubber pads arranged in series lengthwise of the mechanism, adjacent pads having respectively opposed, complementary surfaces diverging outwardly away from the longitudinal central axis of the mechanism, and two sets of friction plates with the plates of said sets in sliding contact with each other interposed between adjacent pads, said sets of plates being secured to said pads, respectively, certain plates of each set being at opposite sides of the longitudinal center line of the mechanism.

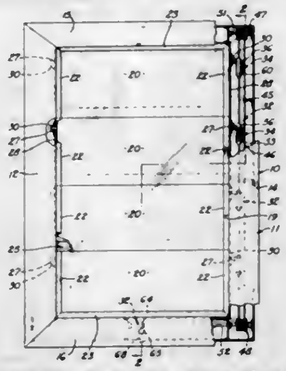
2,641,464
VEHICLE AXLE
Frank F. Linn, Venice, Calif., assignor, by mesne assignments, to Daisy A. Linn and John B. Long, as trustees
Application September 26, 1950, Serial No. 186,745
6 Claims. (Cl. 267—11)

1. A vehicle axle comprising, a pair of shafts, means connecting said shafts in endwise alignment for relative rotation about a common central axis, wheel spindles carried by said shafts in spaced substantially parallel relation to said axis, bearings surrounding and journalling said shafts for rotation and formed for attachment to a vehicle body to be supported by said axle, helical springs surrounding said shafts and having their



opposite ends connected to said shafts and said bearings to resiliently resist rotative movement of said shafts in said bearings, and a torsional member having its opposite ends secured to said shafts to resiliently resist relative rotation of said shafts with respect to each other.

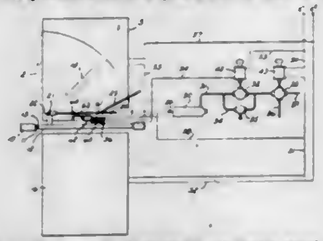
2,641,465
LOUVER WINDOW AND ACTUATING MECHANISM THEREFOR
Neil W. Snow, South Pasadena, Calif.
Application June 30, 1951, Serial No. 234,518
15 Claims. (Cl. 268—23)



1. In a louver window constituted by a plurality of louvers, the combination of: a fixed cam juxtaposed to an edge of each of said louvers and mounted on a frame member of said window; longitudinally shiftable supporting means disposed in said frame member adjacent said cam; a cam follower positioned adjacent said cam and supported on said supporting means for longitudinal movement over said cam; an element on said edge of each of said louvers engageable by said follower; and an actuator operatively connected to said supporting means for moving said follower over said cam to urge each of said louvers outwardly simultaneously in a direction away from said cam.

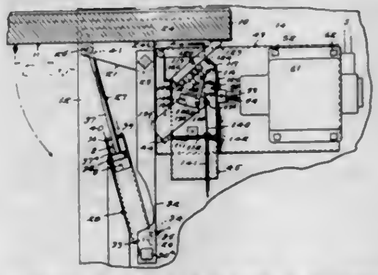
2,641,466
CONTROL MEANS FOR AUTOMATICALLY OPERATED DOORS
Sheldon S. Roby, Meriden, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application March 17, 1950, Serial No. 150,280
8 Claims. (Cl. 268—34)

5. Control means for an automatically operated door comprising a door actuator connected to the door for actuating said door from a closed to open position, means including a first electrical circuit for controlling said actuator to cause said door to be moved by said actuator toward open position, a first switch disposed at one side of the door in serial relation with said first circuit for opening and closing same, means including a second electrical circuit for causing said actuator to move said door at a reduced speed, a second switch disposed at the opposite side of the door, a selector switch responsive to the position of the door con-



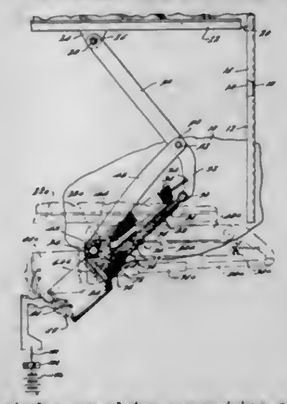
nected to the said electrical circuits and to the second switch for connecting said second switch in said second electrical circuit to cause said door to be moved at said reduced speed when both said first and second switches are closed, and for disconnecting said second switch from said second circuit and, instead, connecting said second switch in parallel with the first switch after the door has opened a predetermined amount to thereby cause said door to be moved at its normal speed when either of said first and second switches remain closed.

2,641,467
GARAGE DOOR OPENER
George E. Reed, Pontiac, Mich.
Application March 7, 1951, Serial No. 214,285
1 Claim. (Cl. 268—75)



A hydraulic lift for a pivoted door comprising crank means carried by the door, a hydraulic lift means operatively connected to said crank means, a pump means communicating hydraulic pressure to said lift means, power means operatively connected to said pump, said pump means having a pressure release valve, switch means in circuit with said power means, said switch being rockably supported and rockable from a circuit connecting position to a circuit disconnecting position, an extension member rockable with said switch and engageable with the door on movement thereof to an open position for rocking the switch to the circuit disconnecting position, a rockable lever, cam means operatively connected to said lever, said cam means being engageable with said release valve, connecting means between said lever and said switch for effecting circuit closure of the switch on rocking of the lever in one direction with said cam means engageable with said release valve on rocking of said lever in an opposite direction, and a remotely disposed means for rocking said lever.

2,641,468
WINDOW REGULATOR
Clifford C. Jackson, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 2, 1950, Serial No. 193,709
11 Claims. (Cl. 268—124)

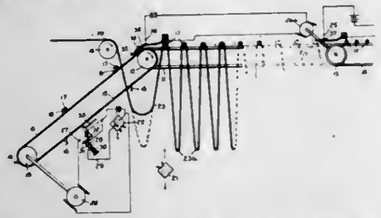


1. A window regulator comprising a pivotally supported member having portions swingable through arcs, a window panel supported for sliding movement toward and away from the point of pivotal support of the member aforesaid, a link carried by a said swingable portion of the pivotally supported member and having one end connected to the window panel, complementary threaded members one within the other and each providing an outer end portion relatively separable with respect to the other outer end portion upon relative rotation of the threaded members, means mounting the respective outer end portions of the threaded members to the other end of the link and to a portion of the pivotally supported member for pivotal movement relative thereto and including a bearing journalling a certain of said threaded members for relative rotation relative thereto, and means for rotating said certain threaded member to change the angular relation between the link and pivotally supported member for causing the said one end of the link and the window panel to move relative to said point of pivotal support of the pivotally supported member.

2,641,469
FESTOON DRIER
Alfred H. Pagell, Brockton, Mass.
Application June 17, 1947, Serial No. 755,176
15 Claims. (Cl. 271—2.2)

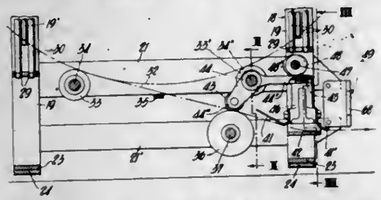
11. In a festoon drier, the combination with a number of endless, substantially horizontal festoon chains arranged in series, an endless conveyor having spaced apart pairs of dogs for supporting travelling sticks and for delivering the same to the first of said festoon chains, and means for feeding a web of material to be dried downwardly in a plane intersecting the path of the sticks on the conveyor near the delivery end of the latter for the formation of the initial

festoons, of a separate driving unit for each of said festoon chains and said conveyor, each driving unit including an electric motor and an energizing circuit therefor, a device emitting a beam of light, a photoelectric cell arranged to receive said beam of light until the initial festoon being formed has reached a predetermined length, a switch in the energizing circuit of said conveyor driving motor, a spring urging said switch into closed position, a control circuit including said photoelectric cell and a solenoid having an armature operatively connected with said switch, said solenoid tending to open said switch and to keep it open against the force of said spring as long as the light beam reaches said



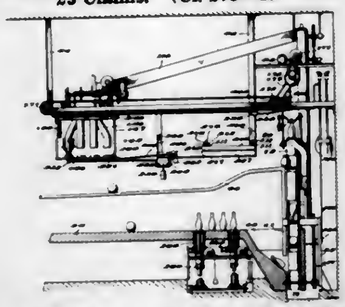
photoelectric cell, a latch for locking said switch in closed position and having a portion disposed adjacent said conveyor to be engaged by successive dogs on the conveyor to trip the latch, a normally open spacing switch in the energizing circuit of each festoon chain driving motor, and a contact arm of predetermined length at the receiving end of each festoon chain and extending rearwardly beyond said end to close the energizing circuit of the associated festoon chain driving motor while a stick passes under the length of said contact arm on to the associated festoon chain, the length of said contact arms decreasing from the first festoon chain to each successive festoon chain.

2,641,470
DEVICE FOR HOLDING COILS OF STRAPPING WITH MEANS FOR DELIVERING LENGTHS THEREFROM
Anton J. Friedl, Chicago, Ill., assignor to United States Steel Corporation, a corporation of New Jersey
Application August 12, 1949, Serial No. 109,952
4 Claims. (Cl. 271—2.3)



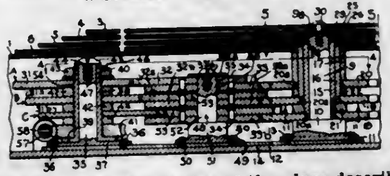
1. Apparatus for feeding elongated material from coils thereof comprising a driving roller adapted to be peripherally engaged by the free ends of the material unwound from the coils, a lever for each coil pivoted adjacent said roller, a pressure roller journaled on each lever cooperating with said driving roller and adapted to press the free end of one coil of material against it, a spring engaging each lever and constantly tending to tilt it and move the pressure roller toward the driving roller, and a shaft having lever-tilting portions spaced therealong and also spaced angularly from each other about the axis of the shaft and thereby being engageable selectively with said levers and adapted to tilt them against the force of said springs.

2,641,471
BOWLING PIN SETTING MACHINE
Journey F. Timberlake, Charlottesville, Va.
Application January 8, 1947, Serial No. 720,787
23 Claims. (Cl. 273—43)



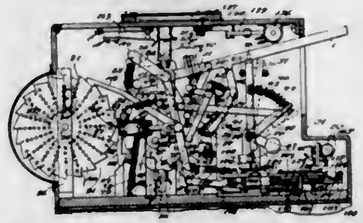
12. In a mechanical bowling pin setting machine for use with a bowling alley, the combination of a pin magazine positioned above the alley, movable closure means cooperating with said magazine and normally retaining the pins in the magazine, power means for moving said closure means to pin releasing positions, pin receiving means located in the floor of the alley in the set positions of the pins and movable to elevated pin receiving positions, power means for moving said pin receiving means to said elevated positions, and means associated with both of said power means for assuring that said pin receiving means reach said elevated positions prior to the moving of said closure means to pin releasing positions.

2,641,472
RACING GAME DEVICE
Howard J. Murphy, Lynnfield, Mass.
Application April 29, 1949, Serial No. 90,520
2 Claims. (Cl. 273—86)



1. An amusement device of the class described including a plurality of trains of gear members, an object in mechanical assembly with each of said trains so as to be rotated thereby, each of said gear trains including a drive gear and a second gear having intermeshing gear elements, said gears being of different radii at points of intermesh to rotate said second gear at constantly varying speeds a third gear assembled with said second gear to rotate therewith, and a fourth gear of smaller diameter than said third gear in intermeshing engagement therewith, said third gear being constructed and arranged with relation to said second gear to transmit said varying speed of said second gear to said fourth gear, said fourth gear having means for rotating said object, and means for driving said drive gear.

2,641,473
CHANCE APPARATUS
Burton E. Stalter, Buckeye Lake, Ohio
Application December 11, 1947, Serial No. 791,019
7 Claims. (Cl. 273—138)



1. An amusement apparatus including a plurality of operating levers each mounted for movement independently of the other levers for selective operation individually and in combination, a code wheel, a pair of opposed bearing members rotatably mounting said code wheel, a plurality of electrically conductive contacts that are irregularly spaced apart in said code wheel, a plurality of sets of electrically conductive contacts that are spaced at regular intervals on each of said bearing members in the path of the contacts in said code wheel, an electrical circuit connected to each set of the contacts on said bearing members and the contacts in said code wheel being adapted for selective engagement with the contacts on said bearing members, means responsive to the operation of any lever to advance the code wheel, a lever interpolated in the electrical circuit to each set of contacts on one of said bearing members, a switch interpolated in the electrical circuit to each set of contacts on the other of said bearing members in the path of said levers and each of said circuits being adapted to be closed when the code wheel is in a predetermined position in relation to operation of selected levers to engage their respective selected switches so that certain of the contacts on said code wheels are in engagement with certain of the contacts on said bearing members, and win-indicating means operable upon the movement of each of said levers, whereby each actuation of the levers due to the spacing of the contacts on said code wheel and said bearing members may or may not cause a circuit to the win-indicating means to be energized by the closing of certain of said interengaged circuits.

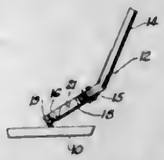
2,641,474
RECORD CHANGING PHONOGRAPH
Johan Samuel Zandelin, Stockholm, Sweden, assignor to Industriaktiebolaget Luxor, Motala, Sweden, a corporation of Sweden
Application June 5, 1947, Serial No. 752,739
In Sweden December 8, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 8, 1965
2 Claims. (Cl. 274—10)

1. In a record changing phonograph, a stationary post having an offset upper portion to provide a shoulder for temporarily supporting a pile of records of which the lowermost record may be displaced laterally into concentric relation with the post, a record displacing member swingably mounted on a transverse pivot in said stationary post and also movable in longitudinal direction, said record displacing member being provided at its upper end with a projection adapted normally to engage the central hole of the lowermost record of the pile and with a shoulder arranged at the base of said projection substantially at a level with the shoulder of the post, when the displacing member is in its upper position, for temporarily supporting the pile of records when the displacing member is swung to a position in which said shoulder is outside the periphery of said stationary post, and a driving mechanism for said displacing member, said driving mechanism being adapted first to swing the record displacing member in a direc-



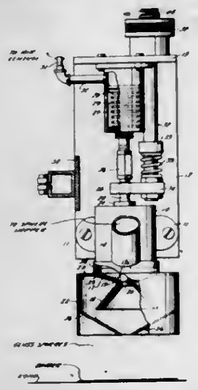
tion for moving the lowermost record of the pile into concentric relation with the post, then to lower the record displacing member so as to separate the lowermost record from the remainder of the pile and place the latter upon the shoulder of the post, then to swing the record displacing member back so as to release the record supported by the same and allow said record to descend along the post, and finally to raise the record displacing member so as to cause the upper projection thereof to engage the central hole of the next record of the pile.

2,641,475
PHONOGRAPH STYLUS
Benjamin B. Bauer, Oak Park, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois
Application November 22, 1947, Serial No. 787,572
7 Claims. (Cl. 274—38)



3. A stylus for reproducing sound records comprising, a shank, a pair of spaced prongs each including an end extending from said shank, a compliant element secured at opposite ends to said spaced prongs and extending substantially directly across the space between said prongs, a vertically resilient arm attached at one end to said shank and attached to said compliant element intermediate said prongs, and a record engaging point attached at the other end of said arm and protruding laterally from between the ends of said prongs, said ends of said prongs and the tip of said point lying substantially in the same plane perpendicular to a record in the normal playing position thereof.

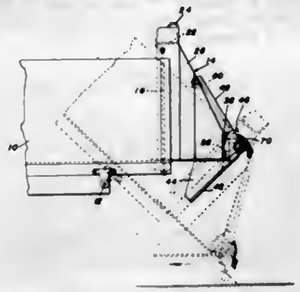
2,641,476
APPARATUS FOR DISPENSING SMALL ARTICLES OVER A RESTRICTED AREA
James J. Keleher, Sacramento, Calif., assignor to Prismo Products, Inc., Dayton, Ohio, a corporation of New York
Application January 14, 1948, Serial No. 2,338
8 Claims. (Cl. 275—2)



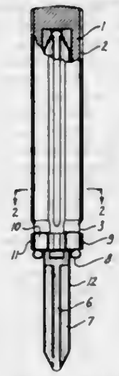
1. An apparatus for dispensing beads over an elongate narrow area of a road surface, comprising a bead receptacle adapted to be connected with a vehicle for movement therewith and having in the bottom thereof an outlet through which beads may flow by gravity, a movable valve member to open and close said outlet, said valve member having a part extending about and laterally beyond said outlet into the path of the beads discharged through said outlet to deflect and spread said beads, a skirt connected with said receptacle, extending downwardly beyond the same in laterally spaced relation to said outlet and terminating adjacent to but spaced from said road surface to limit the spread of said beads to an area defined by said skirt, baffles carried by and extending inwardly from said skirt below said valve member to distribute said beads substantially uniformly over said area, an actuating device connected with said valve and biased in valve closing direction, and a power operated device acting through said actuating member to move said valve member to outlet opening position.

2,641,477
MATERIAL SPREADING BOX
Samuel J. Davis and Wilton W. Thomason, Brownfield, Tex.
Application August 18, 1950, Serial No. 180,199
3 Claims. (Cl. 275—2)

1. An attachment for a truck body to constitute a tailgate therefor, said attachment comprising an aggregate spreader which includes a housing located at the discharge end of the truck body, said housing having a discharge opening therein, a shaft mounted for rotation adjacent said discharge opening and on the exterior of said housing, a plurality of curved valve plates, each valve plate having a tube connected therewith, said tubes being mounted rotatively upon said shaft mounting said valve plates in sealing relationship with said discharge opening, coupling pins for selectively securing said tubes to said shaft, and an actuator connected with said shaft for rotating the same whereby upon rotation of said shaft said valve plates secured thereto are operated.



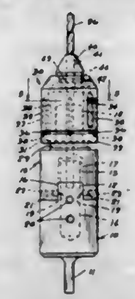
2,641,478
SCREW DRIVER
Joseph A. Sigg, Pittsburgh, Pa.
Application October 18, 1947, Serial No. 780,635
3 Claims. (Cl. 279—23)



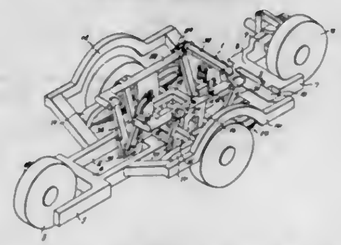
1. In a screw driver having interchangeable bits, a handle portion therefor and clamping means at the inner end of the handle portion comprising a sheet metal member having crimped ends interacting with a shoulder of the handle portion and having looped ends constituting spring members for yieldingly engaging the body of the screw driver, said clamping means having a depending body portion of the shape of the screw driver shank for receiving the screw driver shank.

2,641,479
ELECTRIC DRILL ADAPTER KIT
Samuel F. Gabricle, Brooklyn, N. Y.
Application June 29, 1951, Serial No. 234,339
3 Claims. (Cl. 279—76)

1. A drill adaptor, comprising a master chuck for engaging into a drill chuck and having an axial opening, a drill bit holder engageable on said master chuck and having at its top a cylindrical projection formed at its base with a bearing support shoulder and having an axial opening into which a drill bit may engage in order to project from the top of said drill bit holder and in order that the bottom of said drill bit may extend down into said axial opening of said master chuck, means for releasably latching said drill bit holder on said master chuck, means for releasably holding said drill bit firmly connected with said cylindrical projection, and a stationary drill bit support mounted on said drill bit holder and comprising an inner collar engaging over said cylindrical projection and provided with a bearing engaging said bearing support shoulder, an outer collar longitudinally slidably mounted on said inner collar, resilient means urging said outer collar to an out position on said inner collar, and a drill bit steadying member mounted on said outer collar and having an axial opening through which said drill bit may pass.

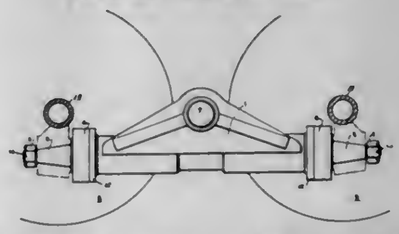


2,641,480
BANKING AUTOMOTIVE VEHICLE
Charles Bancroft, New Canaan, Conn.
Application July 29, 1950, Serial No. 176,746
6 Claims. (Cl. 280—87)



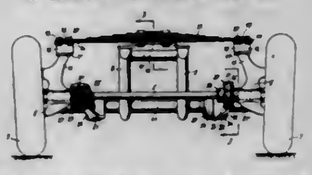
5. A vehicle including a main frame, a subframe, means for interconnecting said frames so that they are substantially immovable longitudinally and are shiftable laterally respecting each other, means for holding said frames substantially parallel to each other when said subframe is located at a predetermined lateral position relative to said main frame and for translating motion of said subframe laterally from said position into tilting motion of said main frame relative to said subframe, laterally spaced wheels connected to said subframe to support it laterally stably relative to a supporting surface, front and rear wheels, means for pivotally steeringly connecting said front wheel to said main frame and means for pivotally steeringly connecting said rear wheel to said main frame, respectively in front of and behind said subframe and with said front and rear wheels substantially in alignment with each other longitudinally respecting said main frame, means for oppositely steering said front and rear wheels to corresponding steering angles relative to said main frame, and means for steering said rear wheel to different steering angles relative to said main frame respecting the steering angle of said front wheel, said rear wheel being pivoted to said main frame with a backward castor angle by said means for pivotally steeringly connecting said rear wheel to said main frame, said rear wheel having means for biasing it to steer towards a predetermined steering angularity relative to said frame.

2,641,481
BOGIE BEAM CONSTRUCTION
William D. Chaplin, Dereham, England, assignor to Cranes (Dereham) Limited, Dereham, Norfolk, England
Application February 21, 1950, Serial No. 145,510
In Great Britain March 17, 1949
2 Claims. (Cl. 280—104.5)



1. An axle mounting for heavy duty bogies for wheel axles of road vehicles, comprising, in combination, a hollow bogie beam with its longitudinal axis below the axes of the wheel axles and having a central pivotal mounting, an antifriction bearing with axis parallel to said bogie beam axis and mounted in each end of said beam, two anti-friction bearings mounted centrally within said beam and in axial aligment with said end bearings respectively, two shafts in said beam each mounted in one of said end and central bearings respectively and extending substantially half the length of said beam, a trunnion carried by each shaft and extending beyond the respective end of the beam and end bearing, and means for securing on said trunnions the supporting axle connecting a pair of wheels.

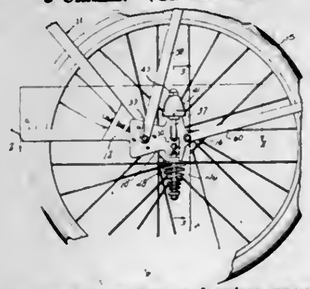
2,641,482
WHEEL SUSPENSION MECHANISM FOR ROAD VEHICLES
Karl Wilfert, Stuttgart-Degerloch, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application June 29, 1951, Serial No. 234,255
In Germany July 1, 1950
5 Claims. (Cl. 280—106.5)



1. In a wheel suspension mechanism for a road vehicle, the combination comprising an axle, a frame having a frame portion extending upwardly to a level above said axle, a pair of wheels carrying said axle, guiding arms mounted on said frame for pivotal movement about a transverse axis thereof and connected to said axle and adapted to guide the same relatively to said

frame for upward and downward motion, brackets on said axle projecting upwardly therefrom, rubber blocks on said brackets, and a transverse spring firmly mounted intermediate its ends on said frame portion and having its ends connected to said rubber blocks, said ends and blocks lying at the height of the center of gravity of the vehicle.

2,641,483
PARALLEL TWIN-FLEX SPRING SUSPENSION FOR TWO-WHEELED VEHICLES
William M. Price, Towson, Md.
Application November 10, 1950, Serial No. 195,022
3 Claims. (Cl. 280—285)



1. In a bicycle, a frame having parallel rear fishtail portions, a rear wheel disposed between said fishtail portions, a pair of parallel bracket members secured to the respective fishtail portions, said bracket members being formed with vertically extending arcuate slots, an axle rotatably supporting said wheel and extending slidably through said slots, an upstanding link pivotally connected to each end of said axle, an extensible coil spring surrounding each of said links, the top end of each spring being secured to the top end of the associated link and the lower end of each spring being secured to a bracket member, a depending link pivotally connected to each end of the axle, a compressible coil spring surrounding each depending link, the lower end of each compressible spring engaging the lower end of its associated depending link and the upper end of each compressible spring bearing on the associated bracket member, whereby downward movement of the frame relative to the axle will be cushioned by said springs, a pair of arms each having one end thereof pivoted about said axle adjacent opposite ends of said axle, each arm being formed with a slot adjacent the opposite end thereof, and a pair of bolts fixed to said frame at opposite sides thereof, said bolts being received within said slots in said arms and guiding said arms, whereby canting of said axle in said first named slot is prevented.

2,641,484
PROTECTIVE BOOK COVER
Arthur Brody, Newark, N. J.
Application July 14, 1950, Serial No. 173,775
4 Claims. (Cl. 281—34)



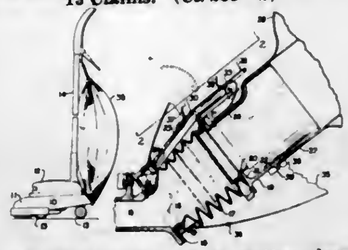
1. A protective book cover comprising a laminated sheet consisting of adhesively bonded outer and inner layers, the outer layer being composed of a plastic sheet which is waterproof, translucid and tear resistant but too limp to retain a crease, the inner layer being composed of opaque relatively stiff paper well adapted to be folded and to retain a crease, said paper layer being composed of spaced parts which define between them a gap so positioned that the medial region of the book cover adapted to overlie the spine of the book to be covered consists only of said translucid material.

2,641,485
VALVED PIPE FITTING
Guillaume M. Dupuy, Shanghai, China
Application July 26, 1949, Serial No. 106,911
9 Claims. (Cl. 284—18)



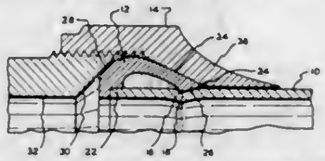
6. A valved coupling assembly comprising first and second conduit sections, means releasably connecting said sections together, a valve seat mounted in said first section, a valve supporting member mounted in said first section adjacent said valve seat, a valve, means resiliently connecting said valve to said supporting member and yieldingly urging said valve towards its valve seat, means carried by said second section and movable in said first section for urging said valve from its seat against the resistance of said resilient connecting means, means in said first section for rocking the valve about a diametrical axis therethrough upon movement of the valve from its seat, said movable means having a valve support means for engaging and supporting said valve when the latter has been moved from said valve seat.

2,641,486
JOINT FOR FILTER UNIT FOR SUCTION CLEANERS
John E. Vance, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 8, 1949, Serial No. 126,117
13 Claims. (Cl. 285—2)



1. The combination with a suction cleaner of the type having a body, a motor-fan unit, a propelling handle pivoted to said body and an exhaust air passageway, of a filter adapter assembly for releasably securing a paper filter to said exhaust air passageway, said adapter including a rigid cylindrical conduit, means for connecting the forward end thereof to said passageway, an elongated depression in the outer surface of said conduit restricted to one side thereof and extending lengthwise of said conduit, said depression being positioned to underlie the inlet end of a paper filter bag, means for gathering and clamping a filter onto said conduit comprising movable means mounted on said conduit near the forward end thereof, said gathering means being movable against the outer surface of a filter inlet in an area opposite said depression so as to depress said filter into said depression until said filter grips said conduit tightly and in an air tight manner, said gathering means also being movable away from said depression to release the same for withdrawal from said conduit and from said gathering means.

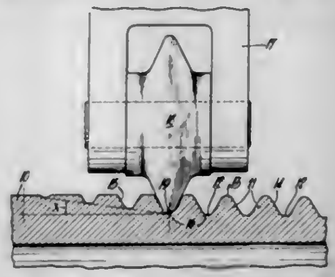
2,641,487
FLARELESS RIGID TUBE END FITTING
Roger R. La Marre, Jackson, Mich., assignor to Aeroquip Corporation, Jackson, Mich., a corporation of Michigan
Application July 13, 1949, Serial No. 104,410
1 Claim. (Cl. 285—122)



In a rigid flareless tube end fitting having a tubular externally threaded adaptor portion with a conical sealing and stop portion and an internally threaded union nut having a conical sleeve portion in axial opposition to the conical portion of the adaptor, a sealing sleeve for the tube having an abutment end and an axially spaced deformable end, said sleeve having prior to deformation an internal diameter throughout the major portion of its length which will receive with a sliding fit one end of a tube with the minor portion of said sleeve at said abutment end being in the form of an inturned flange with which the tube end abuts, the abutment end of said sleeve being of substantially greater cross-sectional area than that of said deformable end to present a rigid relatively undeformable sealing and abutment portion radially spaced from said inturned flange and engaging with the conical portion of the adaptor only at a point adjacent the threaded engagement between the adaptor and the nut, the outer surface of said sleeve bulging outward adjacent said abutment end and then having a generally inward tapering surface toward said deformable end to terminate in a tapered nose portion, the interior of said sleeve being concaved on opposite sides of an intermediate point adjacent the tapered nose portion of said sleeve to provide an annular interior and deformable knife edge and to reduce the cross-sectional area of the tapered portion of said sleeve at the deformable end, the outer tapered surface of said sleeve opposite said knife edge being slightly curved at the point of initial engagement with the conical surface of the nut whereby said curved surface is deformable and said knife edge is contractable upon the tube with the terminal portion of said tapered nose contiguous with the tube.

2,641,488
METHOD AND MEANS FOR INCREASING BENDING FATIGUE STRENGTH OF ROTARY STEEL DRILL PIPES
Jerry Jay Dunn, Ellwood City, and William O. Clinedinst, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey
Application November 12, 1947, Serial No. 785,432
3 Claims. (Cl. 285—146)

1. In a steel drill pipe section having external screw threads for engagement by an internally screw threaded coupling and having fade-out threads, the threads being of the V-type and having rounded roots, means for counteracting the loss of bending fatigue strength in the threaded region comprising cold worked por-



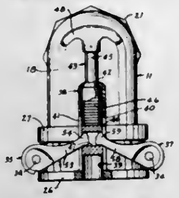
tions in the roots of said coupling-engaging and fade-out threads, the amount of cold reduction progressively increasing from the end of the pipe section to the region of the last thread adapted to be engaged by the coupling and progressively decreasing through the fade-out threads.

2,641,489
COUPLING CONSTRUCTION
Victor A. Hedberg, Jr., Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application September 15, 1949, Serial No. 115,810
1 Claim. (Cl. 285—166)



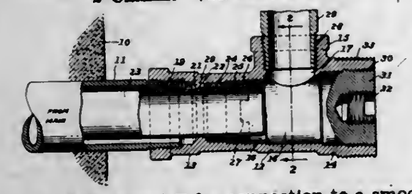
In a pipe coupling for threadless unflared pipe, a body member having a cylindrical bore of such diameter as to fit over the end of the pipe, an interior conical shoulder projecting into the inner end of said cylindrical bore and against which the end of the pipe to be coupled may be abutted, a nut surrounding the pipe for threaded connection with the body, a coupling sleeve having a smooth internal bore to fit around the pipe in advance of the nut, the forward portion of said sleeve being generally conical, a circumferential rib projecting outwardly from the intermediate part of said conical forward portion, said body member having an interior sloping wall against which the rib and leading end of said sleeve engage when the nut is threaded into the body with the forward end of the nut in abutting relation with the adjacent end of the sleeve, the angle of slope of said conical wall being greater than the angle of taper of the sleeve whereby upon continued threading of the nut the sleeve is deformed inwardly in the vicinity of the rib and forward end portion, thus necking the pipe inwardly while the sleeve is moving axially on the pipe and the end of the pipe is being forced firmly against said conical shoulder, which shoulder serves as an anchor to prevent the end of the pipe from collapsing inwardly, said sleeve and rib consisting of metal of substantially the same hardness as said nut whereby said rib still projects above the surface of the sleeve after the sleeve and pipe have been deformed inwardly.

2,641,490
COUPLING DEVICE WITH SPRING PRESSED TIGHTENERS
John T. Krapp, Port Washington, N. Y.
Application December 6, 1950, Serial No. 199,433
8 Claims. (Cl. 285—171)



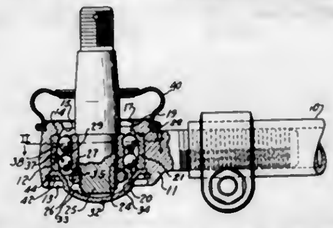
1. In a separable coupling device, a tubular male member having a seating face on one end thereof and an annular groove on the exterior thereof adjacent to said end, a female member including a tubular portion having an interior shoulder, a gasket on said shoulder adapted to be engaged by said seating face, oppositely disposed cam means on said female member, said cam means being pivotally carried on said female member and adapted to engage said annular groove and to force said seating face into fluid tight engagement with said gasket, a boss on said female member having an interior bore with a shoulder formed therein, a common actuator reciprocally carried in said bore and having a lateral passage therethrough, curved lever extensions on each of said cam means extending into said passage, and spring means on said actuator within said bore and abutting said shoulder for urging said lever extensions of said cam means in a direction to cause said cam means to force said seating face into said tensional engagement with said gasket.

2,641,491
REPLACEMENT T OR FITTING
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application January 14, 1949, Serial No. 70,886
2 Claims. (Cl. 285—210)



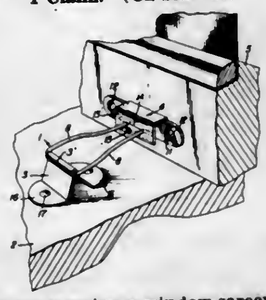
1. A replacement T for connection to a smooth walled tube concentrically enclosed by and extending from a discontinued service pipe, comprising: a one-piece body having a straight longitudinal bore therethrough and a lateral bore in communication with said longitudinal bore; a screw thread in said body at one end of said longitudinal bore for engagement with the service pipe; an annular internal flange projecting from said longitudinal bore adjacent said screw thread for enclosing the tube; a packing ring in said longitudinal bore abutting the inside surface of said flange; a gland nut in said longitudinal bore abutting the inside surface of said packing ring; an internal plug-engaging screw thread in said body at the other end of said longitudinal bore; and an external screw thread in said body at the plug-engaging end thereof substantially concentric with said internal screw thread and adapted for engaging fluid-tight tool-inserting mechanism.

2,641,492
SEALED UNIVERSAL BALL BEARING JOINT
William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio
Application January 12, 1949, Serial No. 70,513
9 Claims. (Cl. 287—90)



1. In a sealed universal joint, a housing having a cylindrical bore through one end; a ledge in the inner wall of said housing; an inwardly extending flange adjacent one end of said bore in said housing, the inside edge of said flange having oppositely flared outer and inner edges; a self aligning two-ball ball race bearing unit in said bore of the housing; a shaft inside said bearing unit, said unit having inner and outer ball races, means to secure the inner race of said bearing unit on said shaft; means to secure said outer race in said housing with one end thereof contacting said ledge; an arcuate shaped retaining member closing the open end of said bore in said housing; said member having an surface extension corresponding to the curved surface of said outer ball bearing race; stop means to limit the angle of oscillation of said shaft; and a flexible seal between said shaft and said flanged end of said housing.

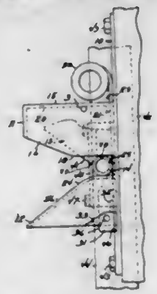
2,641,493
WINDOW SCREEN LATCH
Walter W. Flugrath, New Braunfels, Tex.
Application April 3, 1950, Serial No. 153,669
1 Claim. (Cl. 292—19)



A latch for securing a window screen to a window sill comprising a channel member with a front flange having ends attachable to said screen and a relatively shorter rear depending flange having a downwardly opening T-shaped slot therein forming a restricted entrance to the wider portion of the slot, and a pivotal member attachable to said sill and including resilient

sides flexible toward each other into engagement to enable the same to pass upwardly through said entrance into the wider portion of said slot for reaction apart to engage opposite ends of the wider portion of the slot, said sides terminating in lateral end portions hooking behind said depending flange when said sides are engaged with the ends of the wider portion of the slot, said lateral end portions being of an overall length when said sides are engaged greater than the length of the wider portion of the slot to prevent said lateral end portions from pulling out of said wider portion if said sides are engaged while in the wider portion of the slot.

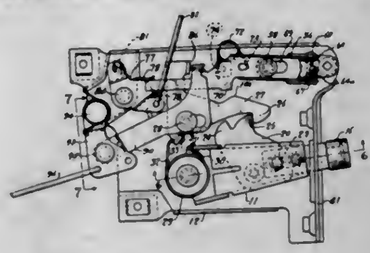
2,641,494
GATE LATCH
Allen Eugene Burris, Sabinal, Tex.
Application September 7, 1949, Serial No. 114,365
3 Claims. (Cl. 292—189)



1. A gate latch comprising a base plate, an upper and lower guide arranged in spaced apart relation adapted to receive a pin therebetween, each of said guides having an upper and lower portion, said guides extending from one side of said base plate, the upper portion of said upper guide including a web and the lower portion of said upper guide having an inclined guiding surface, said web being provided with an elongated opening to receive a trigger, there being registering slots in said upper and lower guides, said trigger including a plate slidably positioned in said slots, flanges on said guides arranged contiguous to said slots for guiding said trigger, the upper portion of the lower guide including a web, and having an inclined guiding surface, the said inclined guiding surfaces extending inwardly toward each other from the outer ends of the upper and lower guides, said trigger being provided with a notch having a lip portion extending downwardly therefrom to form a hook portion adapted to receive a pin, there being a beveled surface on the trigger extending upwardly from the lowermost portion of the lip portion so that said pin strikes the beveled surface to move the trigger upwardly to permit the pin to engage behind the lip portion of the trigger.

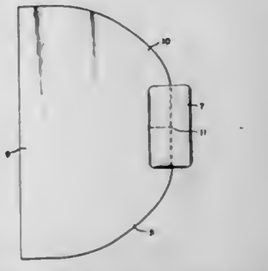
2,641,495
DOOR LOCK
James D. Leslie, Detroit, and Clyde H. Schamel, Royal Oak, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 28, 1947, Serial No. 788,534
12 Claims. (Cl. 292—229)

1. In a door lock, a bolt shiftable from unlocked position to locked position and from locked position to unlocked position, a detent, and a lever having one arm operatively associated with said lock bolt so that movement of said lock bolt swings said lever about its fulcrum, a spring urging said detent toward said lever, the other arm of said lever having a tooth provided with a cam surface, movement of said lock bolt from unlocked to locked position causing said cam surface to cam said detent outwardly until said cam surface clears said detent whereupon said spring



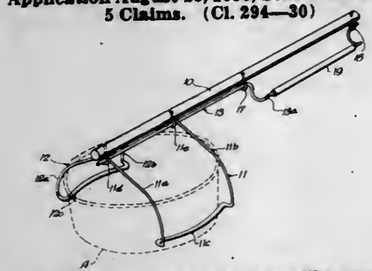
moves said detent into interengaged relation with said tooth and said detent acts through said lever to retain the bolt in locked position, the first mentioned arm of said lever being shorter than the second mentioned arm whereby any force exerted by said bolt in an unlocking direction against said first mentioned lever arm produces a substantially lesser force acting through said longer arm against said detent.

2,641,496
PASTRY LIFTER AND SETTER
Theresa M. Benezet and Wilbert L. Benezet, New York, N. Y.
Application August 19, 1946, Serial No. 691,617
3 Claims. (Cl. 294—1)



1. A culinary aid for the preparation of pie pastry and the like, said aid comprising a pair of members each having a body of sheet form contoured to be temporarily combinedly positioned in underlying relation in substantially planar alinement to a prepared crust layer to support the layer for transfer to and positioning on the pie plate utensil preparatory to baking, said members being adapted to be withdrawn after the layer has been positioned and prior to the baking activities, each body presenting a semi-circular area of the combined contour, each body additionally carrying an upstanding flange opposite the straight side of the area with the upper zone of the flange carrying a handle to thereby locate the handles as oppositely spaced beyond the crust area and free to introduce and to withdraw the members relative to the layer.

2,641,497
LIFTER FOR UTENSILS AND THE LIKE
John L. Thomas, Portland, Oreg.
Application August 26, 1950, Serial No. 181,609
5 Claims. (Cl. 294—30)



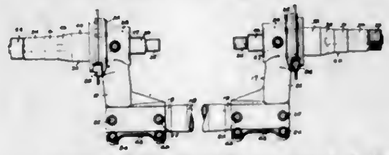
1. A lifter for utensils and the like comprising a handle, a first U-shaped jaw having eyes formed near the free ends thereof and having its free ends secured in said handle, a rod constituting an auxiliary handle substantially coextensive with said handle and rotatably mounted in bearings on said handle and in said eyes in said first jaw, said rod having an offset portion parallel with said handle for manipulating the same, and a second U-shaped jaw secured on said rod in opposed position to said first jaw.

2,641,498
WHEEL FOR RAIL VEHICLES
Pierre M. Bourdon, Paris, France, assignor to Puiseux; Boulanger et Cie, trading under the name "Manufacture de c/c Michelin," Paris, France, a company of France
Application April 9, 1946, Serial No. 660,793
In France June 28, 1945
2 Claims. (Cl. 295—31)



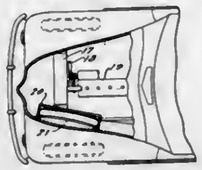
1. A wheel for railway vehicles comprising a pneumatic tire having flexible sidewalls and a tread for engagement with a rail, said tread having a transverse width at least equal to the distance between the outermost surfaces of said sidewalls, a rim for mounting said tire, an annular guide flange having its inner periphery detachably fixed to said rim and its outer periphery adjacent to one edge of said tread, and an annular bead on the outer periphery of said guide flange overlapping said tread in proximity thereto and defining with said tread a narrow annular gap substantially perpendicular to the median plane of said tire.

2,641,499
AXLE CONSTRUCTION
Alfred A. Gassner, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application March 7, 1947, Serial No. 733,097
4 Claims. (Cl. 295—36)



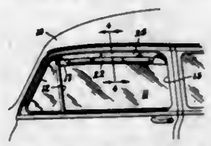
1. A drop axle structure comprising a lower member, upstanding arms fixed at their lower end portions to the end portions of the lower member, a stub axle extending through the upper end portion of each arm, each of said stub axles having a wheel bearing portion on the end projecting beyond the outer side of the associated arm, an out-of-round bearing portion entirely on the end projecting beyond the inner side of the associated arm and radius rod anchor sleeves having interior surfaces complimentary to and mounted on the out-of-round portions of the stub axles, and means fixing the stub axles to the arms.

2,641,500
VEHICLE HAVING OFFSET RADIATOR AND TIRE LOCATED ADJACENT THERETO
Brooks Walker, Piedmont, Calif.
Original application October 23, 1946, Serial No. 705,089. Divided and this application July 6, 1949, Serial No. 103,293
3 Claims. (Cl. 296—37.2)



1. In an automobile having a hood over a radiator located at the front of an engine compartment of the automobile body, a spare tire, and a carrier for said spare tire under said hood at the side of the radiator located to have portions of the tire extending forwardly and rearwardly thereof, said radiator being disposed transversely of the body with its center offset from the center of the body toward the side opposite to that containing said tire carrier.

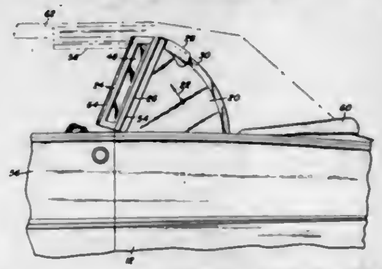
2,641,501
PRESSURE-RELIEF ACCESSORY FOR AUTOMOBILE BODIES
Clayton Ensey, Rockville, Ind.
Application May 27, 1952, Serial No. 290,298
4 Claims. (Cl. 296—44)



4. An automobile accessory comprising an elongated, narrow plate having a longitudinal

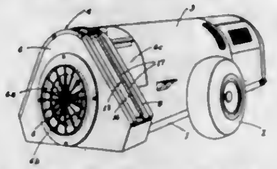
port therethrough, an outwardly projecting flange along one of the longer edges thereof, oppositely projecting flanges along the two shorter edges thereof, and a channel formed along the other of the longer edges of said plate, a flap hinged to said plate and overlying said port to completely close the same, spring means engageable with said flap to resiliently hold the same in such port closing position, and a shield supported on said plate to overlie said flap, said shield opening toward the said other longer edge of said plate.

2,641,502
AUXILIARY WINDSHIELD FOR CONVERTIBLE AUTOMOBILES
Lawrence G. Gunion, Lake Orion, and James Clarkson, Ferndale, Mich.
Application December 13, 1950, Serial No. 200,642
3 Claims. (Cl. 296—85)



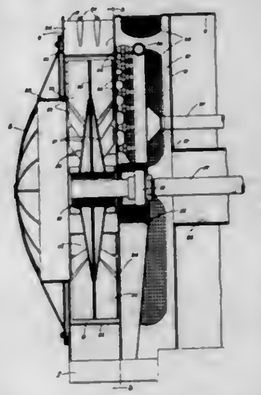
1. In combination with a convertible automobile body including a front windshield assembly and a pair of transversely spaced rear side windows, an auxiliary windshield assembly spaced rearwardly from the front windshield assembly and extending transversely between and abutting front edges of said rear windows, and mounting means including a pair of clamp members positioned on upper edges of the respective rear windows, inwardly projecting hinge pins provided on said clamp members, and hinge blocks provided at the upper edge on opposite ends of said auxiliary windshield assembly and rotatably mounted on said hinge pins whereby the auxiliary windshield assembly is attached to said rear windows and may be swung forwardly and upwardly relative thereto, said clamp members constituting sole support means for said auxiliary windshield assembly.

2,641,503
DUPLEX SPRAY MACHINE
David Porter Wright, Oakland, and Richard Harrison Fish, Morgan Hill, Calif., assignors to Air-O Fan Products Corporation, Gilroy, Calif., a corporation of California
Application March 27, 1950, Serial No. 152,142
4 Claims. (Cl. 299—37)



3. An agricultural spray machine comprising a fan casing having an elongated air blast outlet slot, a power driven fan operative to create an air blast outwardly of said slot, an elongated substantially flat vane pivotally mounted in the casing inwardly adjacent to the slot and longitudinally thereof and transversely edgewardly extended through the slot, a power actuated crank mechanism, connections between the crank mechanism and the vane operative to oscillate the vane in the slot, a plurality of nozzles mounted on the edge of the vane extended through the slot and directed outwardly of the slot in substantial alignment with the vane, and means for supplying fluid spray material under pressure to the nozzles.

2,641,504
AGRICULTURAL SPRAYING MACHINE
Mayes R. Robinson, Gilroy, Calif., assignor to Air-O Fan Products Corporation, Gilroy, Calif., a corporation of California
Application August 2, 1948, Serial No. 41,958
8 Claims. (Cl. 299—41)

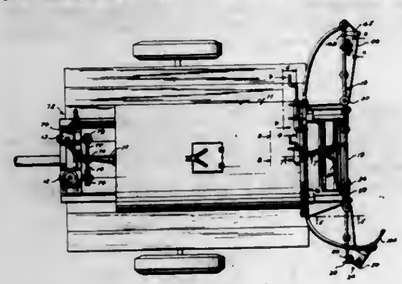


1. An agricultural spraying machine including means forming a chamber having an air outlet opening therein, power driven means to cause an air stream of substantial volume to flow out of the chamber through the outlet opening, a row of spaced deflector vanes mounted in the chamber in position to deflect the air stream, flowing out of said opening, in a predetermined pattern, means to adjust said vanes to alter their outer end setting and so vary said pattern, and means to spray a liquid into the air stream after its directional or pattern control by the vanes; said last named means being nozzles on the vanes mounted to discharge from adjacent their outer ends, the vanes having reservoirs therein and the nozzles communicating with said reservoirs, and means to supply spray liquid into the reservoirs in any position of adjustment of the vanes.

2,641,505
POWER SPRAYER FOR CHEMICAL HERBICIDES
Moore Valois, Napoleonville, La.
Application December 3, 1948, Serial No. 63,383
3 Claims. (Cl. 299—42)

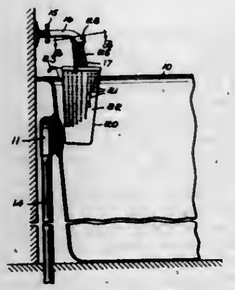
1. In a power sprayer for chemical herbicides, a mobile frame, a tank for the herbicide disposed upon the frame, a center boom section pivotally attached for upward and downward movement

relative to the frame, an outer boom section pivoted to each end of the center boom section for horizontal swinging movement relative to the center boom section, means defining discharge outlets in each of said boom sections, spring means normally maintaining each of said outer boom sections in horizontal alinement with the center boom section, means operatively connected with the center boom section to move the center boom section about its pivot to the frame, a pair of spools rotatably mounted upon said tank,



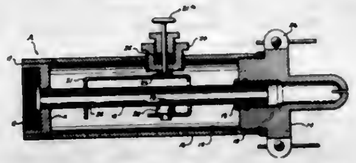
a cable extending from one of said outer boom sections to one of said spools, a second cable extending from the other of said outer boom sections to the other of said spools, and an operating device associated with said spools to rotate either or both of said spools to wind the cable thereon to move either or both of the outer boom sections about their pivots.

2,641,506
SOAP CONTAINER AND DISPENSER
Frank J. Lowthers, Boston, Mass.
Application March 30, 1950, Serial No. 152,889
1 Claim. (Cl. 299—83)



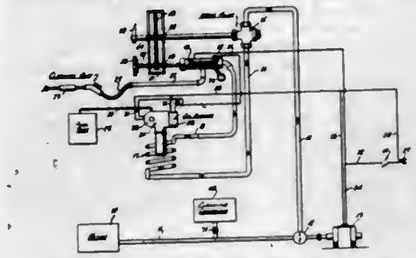
A soap container and dispenser of the kind described, comprising an open-ended cylindrical receptacle having a closed base and integral upper and lower portions formed with longitudinally tapering sides and with the closed base at the smaller diameter, said lower portion being unperforated approximately one-fourth its length above the base to provide a soap-holding compartment, said upper portion comprising a partly perforated area and a diametrically opposite solid water-striking area, and means disposed adjacent the top of said upper portion to retain said container in water-receiving position beneath a water-faucet.

2,641,507
DEVICE FOR ADMIXING A CLEANSING AGENT WITH A STREAM OF FLUID
George F. McGregor, Toronto, Ontario, Canada, assignor of fifty per cent to W. E. T. Ryan, Toronto, Ontario, Canada
Application June 2, 1950, Serial No. 165,773
4 Claims. (Cl. 299—83)



1. A device for admixing a cleansing agent with a liquid from a hose comprising a conduit, one end of said conduit being connectable to the free end of a hose, the opposite end of said conduit terminating in a nozzle, a sealed cleansing agent jacket surrounding at least a portion of said conduit, said conduit being formed with a hole whereby the interior of said jacket communicates with the interior of said conduit, a valve for said hole in said conduit, and manually operable valve operating means operable from the exterior of said jacket for opening and closing said valve over said hole.

2,641,508
CONTROLS FOR STEAM-WATER CLEANING APPARATUS
Francis E. Stoner and Scott W. Lillie, Dayton, Ohio; said Stoner assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application February 24, 1949, Serial No. 78,074
9 Claims. (Cl. 299—84)



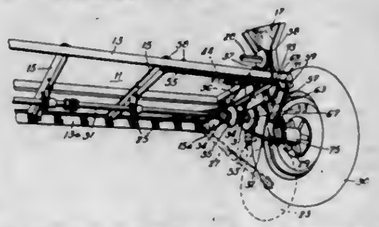
1. In a machine for obtaining a controlled discharge of water and steam for cleaning and like purposes; a water source; a pump for withdrawing water from said source; a coil supplied with water under pressure by said pump and having an inlet and an outlet side; a spray gun communicating with the outlet side of said coil; a pipeline interconnecting said source, said pump, said coil, and said gun; an adjustable volume flow control valve arranged in said pipeline between said pump and the inlet side of said coil; an adjustable thermostat in said pipeline between the outlet side of said coil and said gun; an oil burner for heating said coil; an electrical circuit for initiating operation of said oil burner and of said pump; a switch in said circuit operable by said thermostat; and actuating means having a common connection thereto for effecting simultaneous and corresponding adjustments of said thermostat and of said water valve.

2,641,509
SPRAY NOZZLE
Clyde E. Yost, Evansville, Ind.
Application April 27, 1948, Serial No. 23,462
5 Claims. (Cl. 299—154)



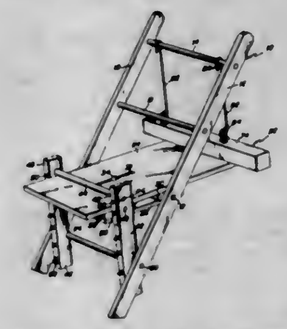
1. A spray nozzle comprising a body having a fluid passage portion formed in said body below the outer surface of said body, said passage portion having passage walls which taper outwardly with concave curvature towards said body outer surface and in the direction of flow of fluid through said passage portion, said body being formed with a transverse fluid discharge slot extending inwardly from said body outer surface and terminating in ends located on the opposite sides of said passage portion, said slot having opposing flat walls intersecting said body outer surface in opposing lines of intersection, said opposing walls tapering inwardly towards the direction of flow through said passage portion and intersecting said concave passage walls along a line of intersection which defines an elliptical opening, and the surfaces of said opposing walls of said slot between said outer surface of said body and said concave passage walls increasing in depth from the center of the slot to said ends of the slot.

2,641,510
WHEEL SUSPENSION
Bernard J. Schill, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application June 2, 1947, Serial No. 751,714
3 Claims. (Cl. 301—125)



1. In combination in apparatus of the class described, a frame, a support wheel, and means for mounting said support wheel on said frame, said means including an offset shaft and a support bracket, said bracket being adapted to engage angularly-disposed sections of said offset shaft, and comprising an annular portion which is adapted to extend around one of said shaft sections and a clamping portion which is angularly disposed relative to said annular portion and which is adapted to receive the other shaft section, the outer face of said annular portion being provided with an annular recess or groove which is adapted to co-act with the hub of said support wheel so as to provide an abutment bearing surface which absorbs inward thrusts of said support wheel hub and being provided with an annular extension which co-acts with said hub to provide a sand cap, said clamping portion of said bracket having openings for receiving a clamping member for attaching said bracket to the shaft section adjacent said clamping portion, and said clamping portion having means for rigidly interconnecting same with said frame.

2,641,511
LADDER WORK PLATFORM
Milton B. McClure, Atlanta, Ga.
Application January 26, 1950, Serial No. 140,575
4 Claims. (Cl. 304—31.5)



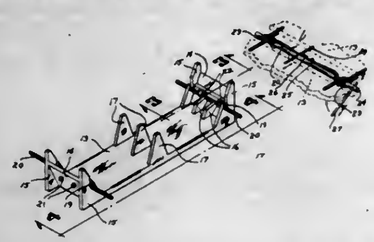
1. A ladder attachment comprising a work platform having inner and outer ends, a second platform disposed below said platform, first and second pairs of spaced cleats secured to the top of the second platform, a pair of vertical columns, vertically spaced members connecting the columns adjacent the upper ends thereof, the outer end of said work platform being slidably received between said members, said work platform having an elongated slot therein, a fastener slidably extending through said slot and connecting the platforms intermediate said pairs of cleats, said first pair of cleats receiving the lower of said members rotatably therebetween and the second pair of cleats being adapted to receive a selected ladder rung therebetween, and means carried adjacent the lower ends of said columns for adjustably and rotatably securing the columns to a ladder rung below the selected rung.

2,641,512
ENDLESS TREAD FOR VEHICLES
Chester I. Leveke, Des Moines, Iowa
Application June 9, 1950, Serial No. 167,172
7 Claims. (Cl. 305—10)

1. In an endless tread for prime movers having wheels, a flexible member arranged in a U-shape, a plurality of pad members capable of having their respective ends secured to corresponding opposite portions of said flexible member, and a means for connecting the two free ends and loop of said flexible member together.

4. In a pad of an endless tread traction means for the wheel of a prime mover, an elongated base portion with upwardly and outwardly extending ends, a triangular member extending away from the wheel engaging surface and from all four corners; said triangular members lying

in planes parallel to the longitudinal axis of said base portion and each inner edge of said triangular members forming an obtuse angle with the plane of said wheel engaging side of said base portion, vertical slots in said triangular members for receiving flexible cables, holes in the upwardly and outwardly extending ends, and bolts



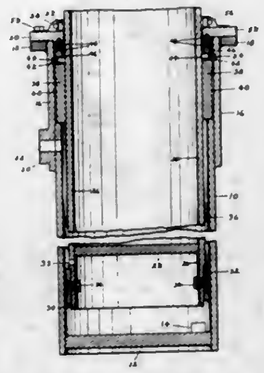
in said holes for engagement with any flexible cables placed in said slots of said triangular members; said bolts being the sole elements positioned in the space defined by a projection of the planes of said upwardly and outwardly extending ends in a direction perpendicular to said last mentioned planes.

2,641,513
BRUSH HANDLE CONNECTION
Paul A. Fryda, West Allis, Wis.
Application September 30, 1948, Serial No. 51,939
1 Claim. (Cl. 306—6)



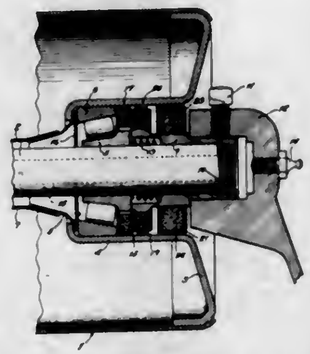
In combination with a brush having a brush back, said back having a transverse recessed portion across its top thereof, an arcuate bracket terminating in vertical anchor plates spanning said brush back over the recessed portion, said anchor plates being secured to said brush back adjacent said recessed portion at both ends thereof, said arcuate bracket and vertical anchor plates having a slot therein extending substantially to the bottom of the recessed portion at both ends thereof, flanges on the outer edges of said arcuate bracket, a handle member having a threaded bolt secured to one end thereof, said threaded bolt projecting through said slot, a curved nut secured to said projecting bolt, said curved nut having a width slightly smaller than the width between the flanges and the width of the recessed portion, said slotted arcuate bracket and vertical anchor plates guiding said handle and nut into and out of said recessed portion whereby said handle may be disposed and fixed in any position through a span of at least 180° with reference to the top of said brush back.

2,641,514
LIFTING DEVICE
Harvard Kaufmann Hecker, Clayton, Mo., assignor to Curtis Manufacturing Company, a corporation of Missouri
Application September 14, 1949, Serial No. 115,715
4 Claims. (Cl. 308—4)



1. A lifting device that comprises a cylinder which has a ground inner surface with "high" spots and "low" spots, said cylinder including an elongated tube with a closed bottom and an open top and a short tube of larger diameter fixedly secured in telescoping relation to said elongated tube at the upper end of said elongated tube, the top of said elongated tube constituting an inwardly projecting shoulder intermediate the top and bottom of said cylinder, a guide bearing, said guide bearing being a sleeve which has an outer diameter smaller than the inner diameter of said short tube but larger than the inner diameter of said elongated tube, one portion of the exterior of said guide bearing fitting loosely within said short tube and another portion of the exterior of said guide bearing being cut away to have a diameter smaller than the diameter of the first said portion of the exterior of said guide bearing, whereby said guide bearing can tilt within said short tube, said guide bearing having the lower end thereof resting upon the top of said elongated tube and having the upper end thereof disposed below the upper end of said short tube, an annular retainer for said guide bearing that is disposed within said short tube and is securable to said cylinder adjacent the upper end of said guide bearing and that overlies part of the upper end of said guide bearing and thus limits appreciable longitudinal movement of said guide bearing while permitting limited tilting of said guide bearing relative to said short tube, an annular pressure-distributing ring disposed within said short tube between the bottom of said retainer and the upper end of said guide bearing, a piston slidably disposed within said guide bearing and said cylinder for reciprocating movement, a guide shoe adjacent the bottom of said piston, said guide shoe being dimensioned to move through said elongated tube and to follow said "high" spots and "low" spots in guiding said piston, and packing positioned adjacent the top of said retainer, said guide bearing being tiltable to permit said guide shoe to follow said "high" spots and "low" spots, the positioning of said packing adjacent said top of said retainer limiting leakage past said packing.

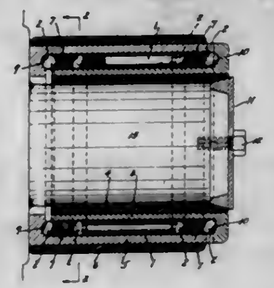
2,641,515
IDLER BEARING SEAL
William F. Bankauf, East Paterson, William E. Herrmann, Maywood, and Hamilton M. Ross, Wortendyke, N. J., assignors to Hewett-Robins Incorporated, Buffalo, N. Y., a corporation of New York
Application September 20, 1950, Serial No. 185,814
3 Claims. (Cl. 308—20)



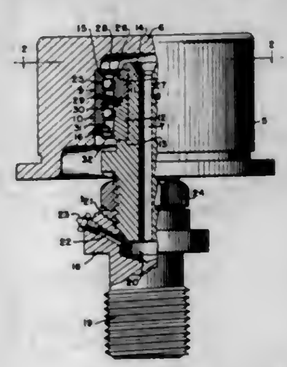
1. A bearing seal for an idler of the kind including a pulley having a cylindrical hub casing, a hollow shaft extending therethrough, an antifriction bearing between the casing and the shaft at the inner end of the casing and a collar secured to the shaft and extending from the bearing to the outer end of the shaft, comprising an annular grease seal element adjacent the outer end of the anti-friction bearing having its outer periphery engaged with the hub casing for rotation therewith; a pair of spaced washer members secured to the collar with clearance between their outer peripheries and the hub casing, the inner of said washer members lying adjacent the outer surface of the grease seal element; a second annular grease seal element located between the washer members with its outer periphery engaged with the hub casing for rotation therewith; an annular shell of inwardly opening U-section, on the outer side of said washer members, encircling but spaced from the collar and secured to the hub casing for rotation therewith; an annular dust seal element clamped in said shell with its inner periphery engaging the collar; and a gasket washer encircling but spaced from the shaft on the inner side of the bearing, the outer periphery of said gasket washer having sealing engagement with the hub casing.

2,641,516
COMBINED ROLLER AND BALL BEARING
Anthony Bakane, Birmingham, Ala.
Application June 8, 1951, Serial No. 230,581
1 Claim. (Cl. 308—174)

A combined roller and ball bearing of the character described comprising, a plurality of identical metal rollers and a plurality of identical metal balls, an inner housing and an outer housing, two identical rings mounted within said housings, said rings having a plurality of identical cavities in one of their side faces, said cavities positioned close to each other, each of said housings having a circular groove in one end portion thereof, balls positioned and seated in between the said cavities in one face of each ring and the grooves in the housings, each end of said rollers having a cavity therein, a ball positioned between the end of each roller and a cavity in the face of the adjacent ring.

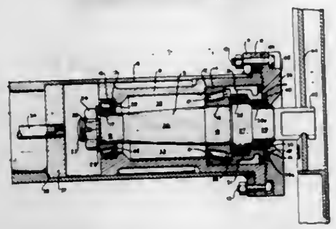


2,641,517
PULLEY
Ernest D. Meadows, Atlanta, Ga., assignor to Meadows Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application January 3, 1949, Serial No. 68,838
4 Claims. (Cl. 308—187)



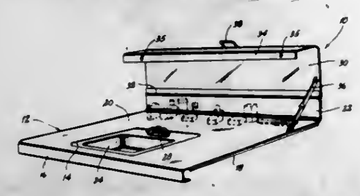
1. In a device of the character indicated, a central supporting member having a central lubricating passage therein, antifriction-bearing means including a first race ring supported by said support member, means to be rotated upon said support member and carrying a second race ring of said antifriction bearing means, one of said support means and of said rotatable means effectively closing-off an end of said antifriction bearing means with said passage in communication with the space within said closed-off end, and seal means for said end of said antifriction-bearing means, said seal means having a relatively restricted opening communicating between said passage and the inside of said antifriction-bearing means, the contacting cooperating parts of said bearing means being wholly on the axial side of said seal means away from said closed end, whereby said seal means may serve to guard against excessive application of lubricant to said bearing means via said passage.

2,641,518
SPINDLE BEARING ASSEMBLY
John M. Trammell, Denver, Colo., assignor to Colorado Iron Works Company, Denver, Colo., a corporation of Maine
Application June 30, 1949, Serial No. 102,351
5 Claims. (Cl. 308—187.1)



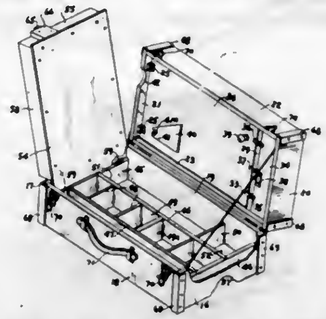
1. In a spindle bearing assembly having a hollow rotary main shaft, a spindle projecting into the end of the hollow shaft, a bearing carrier disposed within said hollow shaft, bearings located between the spindle and carrier, and a retainer member of stepped formation fitted into the outer end of the bearing carrier, the improvement which comprises a closure member engaging the bearing carrier and retainer member, spaced packing units of different diameters disposed between the spindle and the retainer member, and sealing means disposed between the retainer member and closure member, said sealing means comprising an annular groove located in one thereof and packing material located in the groove and engaging the other thereof.

2,641,519
COMBINATION BASIN AND UTILITY SPACE BATHROOM FIXTURE
Bernard F. McMahon, Clayton, Mo.
Application February 25, 1950, Serial No. 146,258
2 Claims. (Cl. 312—284)



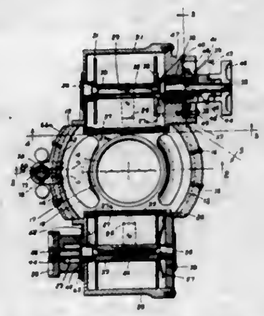
1. In combination, a bathroom fixture comprising a basin platform including a substantial portion extending rearwardly and transversely of the usual basin portion of the fixture and forming a utility space base, a transversely disposed panel extending upwardly from the rear edge of said platform, and a cover of substantially L-cross section pivotally connected to the upper edge of said rear panel forming with said panel and utility space base an enclosed utility space, the front free edge of said cover engaging said utility space base when in closed position, said cover extending over the entire article receiving platform, said cover being movable to and from closed position without entry of the free edge into the normal utility space thereby eliminating articles being knocked over, the surface of said utility space base being smooth and readily accessible, thus facilitating cleaning.

2,641,520
FISHING TACKLE BOX
George E. Moore, Detroit, Mich.
Application February 24, 1950, Serial No. 146,092
6 Claims. (Cl. 312—291)



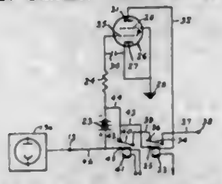
1. A fishing tackle box of the class described, a box-like structure open at one end; a plurality of partitions in said box-like structure for dividing the same into a plurality of compartments, said partitions being of less height and depth than said box and terminating at their edges below the edges of said box; a cover swingably mounted on one of said partitions and swingable downwardly into closing position for closing said compartments; a box-like structure mounted on the outer face of said cover plate, said cover plate forming the bottom of said last named box-like structure; a plurality of partitions in said last named box-like structure dividing the same into a plurality of compartments; and a cover swingably mounted on said last named box-like structure for lying upon said partitions and closing said compartments, said cover being adapted for lying flush with the upper edges of said first named box-like structure.

2,641,521
RECORDING MEANS OF MISSILE DISPENSING TUBES OF ANGLE DETERMINING DEVICES
Thomas O. Brandon, Cucamonga, Calif.
Application April 13, 1948, Serial No. 20,818
4 Claims. (Cl. 346—2)
(Granted under Title 35, U. S. Code (1952), sec. 266)



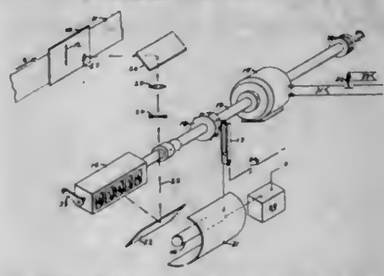
3. In combination in a missile dispensing tube for a sextant or the like angle determining instrument having means for fixing the tube relative to the frame of the instrument, said tube having oppositely disposed wall extensions at its lower end providing oppositely disposed openings therebetween, said opposite openings facing in a direction parallel to the plane of the frame and parallel to the plane of swing of the missile dispensing tube, a shell comprising a base portion having oppositely disposed upstanding walls engaging said wall extensions of said tube in face to face relation, said base portion of said shell extending laterally beyond said tube at either side thereof, spool housings removably mounted on said lateral base extensions, spools in said housings disposed to provide recording strip material carried by said spools to pass across the lower end of said tube, said spools comprising a supply spool and a winding spool having their axes normal to the plane of the frame, a hand wheel for said winding spool disposed for access outwardly of the frame, and a hand knob for the supply spool extending toward the frame and accessible through an opening in the frame, and means providing interlocking engagement between said spool housing and said lateral base extensions rendering said spool housings removable therefrom.

2,641,522
DIGITAL READER
Gilbert W. King, South Lincoln, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application January 14, 1950, Serial No. 138,652
17 Claims. (Cl. 346—33)



1. In an electrical circuit having input terminals and output terminals, the combination of a first channel adapted to be interposed between said input and output terminals, a second channel adapted to be interposed between said input and output terminals and including a source of electrical energy, and electrical means responsive to a function of the signal input to said input terminals and of the voltage of said source, for selectively controlling the interposition of said first and second channels between said input and output terminals.

2,641,523
PHOTOGRAPHIC TIME RECORDING
John C. Beckman and Ernest M. Whitley, San Mateo, Calif., assignors to Beckman & Whitley, Inc., San Carlos, Calif., a corporation of California
Application August 11, 1947, Serial No. 768,010
2 Claims. (Cl. 346—107)



1. An apparatus for photographically recording time on the film of a strip film camera wherein the image of a moving object is exposed on a moving film through a slitted mask which comprises a counting device, a motor for driving said device to effect the display thereon of numerals corresponding to time intervals, means for illuminating the counting device periodically with said time intervals to effect exposure thereof on the film, means for starting the timing device from zero position with the start of a race whereby the finish of the race exposed on the film will be accompanied by a record of the time, and means for projecting the image of the counting device onto the film at a point spaced from the slit in said mask to compensate starting lag in the motor and align the time record with the image of the moving object on the film.

CHEMICAL

2,641,524
ACRYLONITRILE-VINYL AMINE INTERPOLYMERS AND METHOD OF MAKING
David W. Chaney, Nether Providence, Pa., and Helen G. Sommar, Wilmington, Del., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1949, Serial No. 104,592
16 Claims. (Cl. 8—55)

1. An acrylonitrile interpolymer containing acrylonitrile and vinyl amine in the interpolymer molecule.

15. A method of producing an acrylonitrile interpolymer containing, in the interpolymer molecule, acrylonitrile and vinyl amine, which comprises the step of treating a shaped article of an acrylonitrile polymer containing CN groups and $CONH_2$ groups with an aqueous alkaline solution of sodium hypochlorite of from 3 to 6% concentration for from 5 seconds to 30 minutes, at a temperature inversely related to the treating time between 65° C. and 35° C.

2,641,525
METHOD OF POURING INGOTS
William F. Walter, Jr., Greenock, and William J. Wysor, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey
No Drawing. Application June 14, 1950, Serial No. 168,144
1 Claim. (Cl. 22—189)

In a method of pouring steel ingots, the steps including making a composition consisting essentially of granulated bituminous coal of a size such that 95% will pass through a 40-mesh screen but not more than 50% will pass through a 200-mesh screen, flour ground from

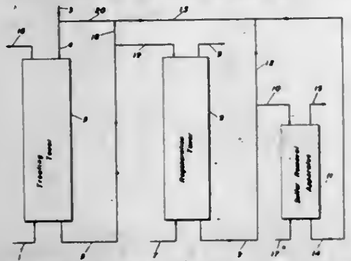
steamed corn kernels and water, in the proportions of about 100 pounds of coal, about 10 pounds of flour and about 20 gallons of water, coating the interior walls of an ingot mold with said composition and teeming liquid steel into the mold, said coating having the property of remaining substantially unaffected above the level of the steel in the mold and burning off progressively just ahead of the steel surface as it rises, thereby affording a pronounced deoxidizing action at said surface.

2,641,526

GAS PURIFICATION

Koerner E. Leutz, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application April 12, 1949, Serial No. 86,891
11 Claims. (Cl. 23—2)



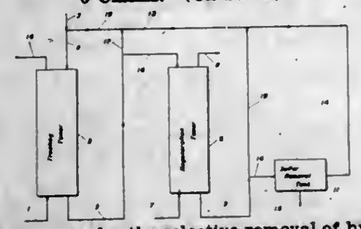
1. Process for selectively removing H_2S from gases also containing CO_2 which comprises: contacting in a treating zone a gas containing H_2S and CO_2 with a treating agent comprising an aqueous suspension of ferrous hydroxide thereby to form iron sulfide; removing from said treating zone a gas containing substantially all of the CO_2 originally present, but substantially less than all of the H_2S originally present; separately removing from said treating zone the fouled treating agent now containing iron sulfide in suspension; regenerating the removed treating agent by contact with free-oxygen-containing gas in a regeneration zone; re-introducing the regenerated treating agent into said treating zone; measuring the pH of the regenerated treating agent and adjusting said pH, thereby to maintain the regenerated treating agent in acidic condition and at a pH not less than 4 substantially throughout the duration of the process.

2,641,527

RECOVERY OF SULFUR FROM GASES

Koerner E. Leutz, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application April 12, 1949, Serial No. 86,892
6 Claims. (Cl. 23—2)



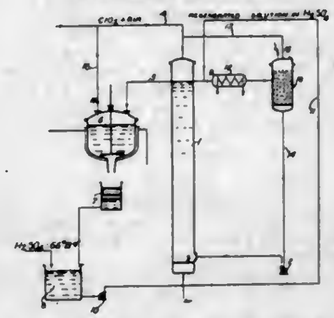
1. A process for the selective removal of hydrogen sulfide from a gaseous mixture containing the same and carbon dioxide which comprises treating said gaseous mixture with a treating agent consisting essentially of water and, dissolved therein, an iron salt soluble in water and having a weakly acidic, organic anion, said treating agent being acidic and having a pH within the range 4–7; and continuing the treatment until a precipitate of insoluble iron sulfide is formed.

2,641,528

MANUFACTURE OF CHLORINE DIOXIDE OF LOW CHLORINE CONTENT

Max Louis Audoynaud, Oullin, France, assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

Application July 27, 1949, Serial No. 107,032
In France August 7, 1948
3 Claims. (Cl. 23—152)



1. A process of producing chlorine dioxide which comprises passing a current of finely divided inert gas into a solution warmed to about 55° to 60° C. and consisting essentially of a metallic chlorate in a concentrated mineral acid selected from the group consisting of sulfuric and phosphoric acids, and recovering the resulting chlorine dioxide which has been released and removed from the solution by the action of the current of finely divided inert gas.

2,641,529

PRODUCTION OF MAGNESIA

Leslie W. Austin, San Jose, Calif., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware

No Drawing. Application May 17, 1950, Serial No. 162,609
16 Claims. (Cl. 23—201)

1. Process for preparing crystalline magnesia which comprises intimately admixing a finely divided magnesium compound which yields periclase upon firing containing at least 95% MgO and less than 2.0% CaO and less than 2.0% SiO_2 and an aluminum compound, said aluminum compound being added in an amount to provide up to 1.5% aluminum as added calculated as Al_2O_3, based on the total weight of the fired product, and firing said mixture to form high purity periclase.

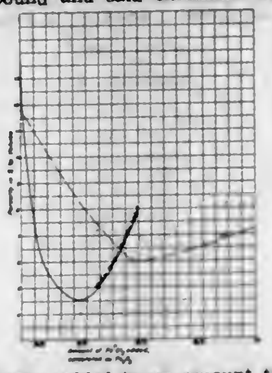
2,641,530

PRODUCTION OF MAGNESIA

Leslie W. Austin, San Jose, Calif., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

Application June 27, 1949, Serial No. 101,650
18 Claims. (Cl. 23—201)

1. Process for preparing crystalline magnesia which comprises uniformly admixing a finely divided magnesium compound which will yield periclase upon firing and containing at least 95% MgO, not over 2% CaO, and not over 2% SiO_2 on the fired basis, a water solution of an iron compound and a chromium-containing material, said iron compound and said chromium-containing



material being added in an amount to provide up to a total of 1.0% of Fe_2O_3 plus Cr_2O_3, as added, in the fired product, and firing said admixture at a temperature of at least 1300° C. to form periclase, said iron compound being added to provide a minimum amount of on the order of about ½% Fe_2O_3.

2,641,531

PREPARATION OF PERICLASE

Leslie W. Austin, San Jose, and Clarence A. Rick, Menlo Park, Calif., assignors to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

No Drawing. Application November 8, 1949, Serial No. 126,247
21 Claims. (Cl. 23—201)

1. A process for preparing dense periclase refractory material which comprises intimately admixing a finely divided periclase-forming magnesium compound containing at least 95.0% MgO and not over 2.0% of SiO_2 on the ignited basis, chromium material as a crystallization promoter, and at least one secondary crystallization promoting metal compound adapted to form a refractory multiple oxide upon firing, said metal being selected from the group consisting of aluminum, beryllium, cobalt, lead, copper, manganese, nickel, vanadium, zinc and zirconium, said metal compound being added to provide a minimum amount on the order of about ½%, said chromium material and said metal compound being added in total amount up to about 2.0%, said amounts being based on the total weight of the fired product and calculated as the oxides, and firing said admixture to form a well-crystallized periclase.

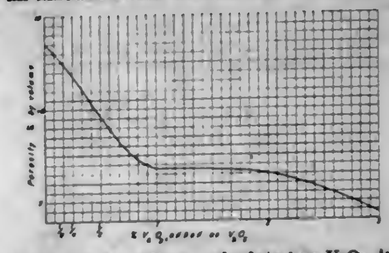
2,641,532

PREPARATION OF MAGNESIUM OXIDE

James C. Hicks, Menlo Park, Calif., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

Application November 8, 1949, Serial No. 126,106
12 Claims. (Cl. 23—201)

1. Process for preparing crystalline magnesia which comprises uniformly admixing a finely divided magnesium compound which upon firing will form periclase containing at least 95.0% magnesium oxide and not over 2.0% silica and at least one substance chosen from the group consisting of vanadium and vanadium compounds in an amount which will provide up to about 5%



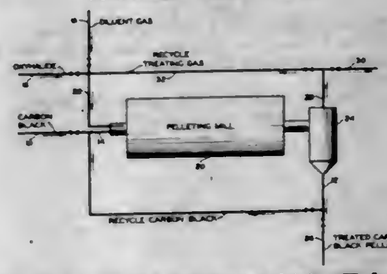
by weight of vanadium, calculated as V_2O_3, in the fired product, and firing said mixture at a temperature of at least 1300° C. to form crystalline magnesia.

2,641,533

TREATMENT OF CARBON BLACK WITH OXYHALIDES

Martin R. Cines and William T. Nelson, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application November 6, 1950, Serial No. 194,292
15 Claims. (Cl. 23—209.1)



1. A process for treating a high pH furnace carbon black having a pH of from 8.5 to 10.1 to substantially lower its pH and thereby increase the scorch time of a rubber mix compounded therewith which comprises. contacting said carbon black with an oxyhalide selected from the group consisting of nitrogen oxyhalides, sulfur oxyhalides, phosphorus oxyhalides, and mixtures thereof, at a temperature of from atmospheric to 400° F. and recovering a resulting carbon black having a substantially reduced pH.

2,641,534

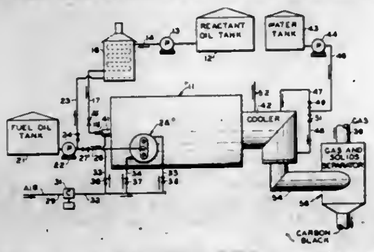
CARBON BLACK FURNACE AND PROCESS FOR MAKING CARBON BLACK

Joseph C. Krejci, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 14, 1950, Serial No. 200,816
4 Claims. (Cl. 23—209.4)

2. A carbon black furnace comprising in combination a first cylindrical chamber of greater diameter than length and a second cylindrical coaxial chamber of lesser diameter communicating therewith, said second chamber being of greater length than diameter, a hydrocarbon injector disposed to discharge a stream of hydrocarbons predominately axially into said first chamber, and a fuel burner disposed to discharge hot gases into said first chamber, said fuel burner comprising a body comprising a first cylin-

drical pipe of greater diameter than length and a second cylindrical pipe of lesser diameter communicating therewith, said second pipe being of greater length than diameter and having an open outlet end communicating with said first chamber with the longitudinal axis of said second pipe disposed predominately tangent to the



adjacent inner wall of said first chamber, a fuel injector disposed to discharge fuel into said second pipe and an air injector comprising a third pipe having an outlet communicating with said first pipe and disposed to discharge air into said first pipe predominately tangent to the adjacent inner wall of said first pipe.

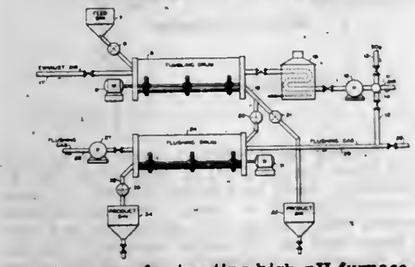
2,641,535

TREATMENT OF FURNACE BLACKS

Martin R. Cines, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 14, 1949, Serial No. 87,473

4 Claims. (Cl. 23—209.9)



1. A process for treating high pH furnace carbon black which comprises: introducing said carbon black into a dry pelleting zone; contacting said carbon black with a free oxygen-containing gas containing, as an added constituent, sulfur dioxide in an amount of from 0.01 to 5 per cent by volume at a rate of from 5 to 50 cubic feet of said air per pound of carbon black introduced at a temperature of at least 32° F.; pelleting said carbon black within said pelleting zone; removing from said pelleting zone resulting carbon black pellets having a pH of from 3 to 7; and withdrawing a resulting gas stream from said pelleting zone.

2,641,536

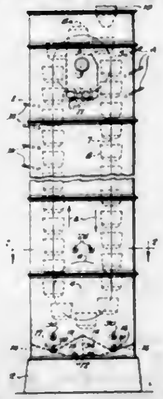
FLAKE REMOVAL FOR SOLVENT EXTRACTION TOWERS

Charles B. Upton, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio

Application March 18, 1949, Serial No. 82,079

13 Claims. (Cl. 23—310)

13. In the method of solvent extraction in which a series of separate charges of loose solids are conducted first in a vertically descending path and then in a vertically ascending path, during which solvent is passed by gravity in succession through the charges in each path, and collected in a gutter at the bottom of each path, that improvement which comprises screening off some of the solvent free of larger solids through



a wall of the gutter, then flushing the sides of the gutter with some of the solvent and solids collected in the gutter to wash into the gutter any solids adhering to the sides of the gutter and thereby prevent the building up on the sides of the gutter of any ridges and collections of solids that might interfere with the free flow of solids and solvent into the gutter.

2,641,537

PRODUCTION OF SALT BRINE

Joseph Avery Dunn and Horace W. Diamond, St. Clair, Mich., assignors, by mesne assignments, to Diamond Crystal Salt Co., St. Clair, Mich., a corporation of Michigan

No Drawing. Application October 28, 1946, Serial No. 706,087

3 Claims. (Cl. 23—311)

1. The method of making pure salt brine of substantially uniform and saturated concentration by percolation which comprises forming refined evaporated salt particles into dense hard aggregates having a specific gravity of at least 1.5 and being capable of dissolving in percolating water without disintegration, said aggregates being large enough not to pass through a 14-mesh screen, and percolating water through a bed of such aggregates.

2,641,538

PREVENTING DISCOLORATION OF FUEL OILS

Ralph B. Thompson, Hinsdale, and Joseph A. Chenicek, Bensenville, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 6, 1950, Serial No. 154,438

8 Claims. (Cl. 44—63)

1. A fuel oil heavier than gasoline containing, as a retarder of discoloration, a compound selected from the group consisting of a benzalaminoalkanol and a furfuralaminoalkanol, the alkanol group of said compound containing from about 2 to about 12 carbon atoms.

2,641,539

PREVENTING DISCOLORATION OF FUEL OIL

Ralph B. Thompson, Hinsdale, and Joseph A. Chenicek, Bensenville, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 12, 1950, Serial No. 155,552

10 Claims. (Cl. 44—73)

1. A fuel oil heavier than gasoline containing from about 0.0005% to about 1.0% by weight of an additive mixture comprising (1) from about 10% to about 50% by weight of a benzalaminoalkanol in which the alkanol group contains from about 2 to about 12 carbon atoms per molecule, (2) from about 10 to about 70% by weight of an alkanol amine containing from about 8 to about 40 carbon atoms per molecule, (3) from about 10 to about 70% by weight of an alkyl amine containing from about 6 to about 20 carbon atoms per molecule and (4) from about 1 to about 20% by weight of a metal deactivator comprising a compound capable of forming chelate compounds with metals.

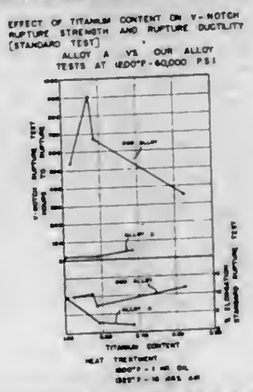
2,641,540

FERROUS BASE CHROMIUM-NICKEL-TITANIUM ALLOY

Gunther Mohling, Loudonville, and Wasil W. Dyrkacz, Newtonville, N. Y., assignors to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania

Application July 19, 1951, Serial No. 237,534

8 Claims. (Cl. 75—128)



1. A commercially producible and forgeable austenitic alloy steel suitable for moving part usage and having an inherently good rupture ductility with a high notch rupture strength at elevated temperatures of about 1000 to 1300° F., in which manganese, chromium, nickel, titanium, molybdenum and vanadium are the only essential elements, are critical within the ranges specified, and the specified contents of the elements manganese and vanadium are essentially in solid solution form in the alloy, and in which aluminum may be present in incidental amounts and up to about 2.50% with the presence of cobalt of up to about 25%; the composition consisting of carbon in a relatively small amount up to a maximum of about .15%, about .50 to 3.00% manganese, up to about 1.50% silicon, about 5 to 22% chromium, about 7 to 50% nickel, about .50 to 3.50% titanium, about .25 to 2.00% molybdenum, about .10 to 1.50% vanadium, and the remainder iron with incidental impurities.

2,641,541

PRODUCTION OF FIBER FROM FLAX STRAW

Sidney D. Wells, Combined Locks, Wis., assignor to The Institute of Paper Chemistry, Appleton, Wis., a corporation of Wisconsin

No Drawing. Application September 13, 1949, Serial No. 115,549

4 Claims. (Cl. 92—15)

4. The method of producing bast fibers containing less than 10 per cent non-bast materials and having a degree of polymerization in excess of 1000 before bleaching, comprising the steps of immersing flax tow, containing over 60 per cent bast fiber, in a .05N sodium hydroxide solution for about 24 hours, removing the solution from said tow, re-immersing the tow in 1N sodium hydroxide solution for about 24 hours, removing the solution from said tow, re-immersing the tow in .15N sodium hydroxide solution for about 24 hours, removing the solution from said tow, said sodium hydroxide solutions being maintained at a temperature of about 70° F., subjecting the chemically treated tow to attrition to break the bonds between the bast and non-bast materials and produce a pulp, washing said pulp to remove a substantial portion of non-bast materials, dispersing .5 part, by weight, of said pulp in each 100 parts, by weight, of water, and subjecting the dispersion to centrifugal forces to effect further removal of the non-bast materials from the bast fibers.

2,641,542

DETOXIFYING TUNG MEAL

David G. Ulrey, St. Petersburg, Fla., assignor to Van M. Darsey, Detroit, Mich.

No Drawing. Application July 19, 1950, Serial No. 174,797

20 Claims. (Cl. 99—2)

1. A method of reducing the concentration of toxic ingredients in tung meal which comprises the step of treating said meal with a compound selected from the group consisting of ammonia and amines having a boiling point less than about 250° F.

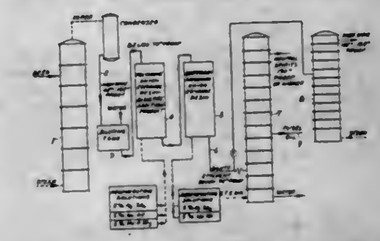
2,641,543

ION EXCHANGE TREATMENT OF ALCOHOL SOLUTIONS

Earl D. Unger, Le Roy A. Smith and Herman F. Willkie, Louisville, Ky., assignors to Joseph E. Seagram & Sons, Inc., Shively, Ky., a corporation of Indiana

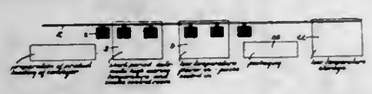
Application January 11, 1950, Serial No. 137,908

10 Claims. (Cl. 99—48)



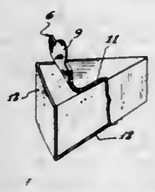
2. The process of treating an alcohol solution containing congeneric products of fermentation which comprises: contacting the solution with a reactive insoluble bisulfite material and with a quaternary ammonium anion exchange material.

2,641,544
METHOD FOR FLAVORING MEAT PRODUCTS
Leland C. Parker, Elmira, N. Y.
Application May 9, 1950, Serial No. 160,975
3 Claims. (Cl. 99—107)



1. A process for producing a flavoring coating on patties of fresh meat comprising the steps of drawing the juices of the meat to the surface of the pattie by exposure to a searing temperature, simultaneously impregnating the hot adherent juices with an aromatic flavoring material, and then immediately sealing the flavor in the juices and forming an adherent preservative envelope for the fresh meat by quickly congealing the juices by cooling the meat to a preserving temperature.

2,641,545
MANUFACTURE OF SOFT SURFACE CURED CHEESE
John H. Kraft, Chicago, Ill., assignor to Kraft Foods Company, Chicago, Ill., a corporation of Delaware
Application April 11, 1951, Serial No. 220,489
6 Claims. (Cl. 99—116)



1. As an article of manufacture, a soft, surface cured, mold ripened cheese encased in a mold pad and having a soft interior portion and which includes a porous fabric lying at the interface between said mold pad and said soft interior portion.

2,641,546
PROCESS FOR THE MANUFACTURE OF FROZEN COMESTIBLES
Clinton W. Decker, Pullman, Wash.
No Drawing. Application July 27, 1949, Serial No. 107,147
8 Claims. (Cl. 99—136)

1. A process for reducing sandiness in frozen comestibles of the class consisting of ice cream and ice milk comprising the steps of adding to and intimately mixing with the comestible liquid mix after pasteurization and prior to freezing a small amount of material consisting of lactose crystals in discrete form, and then freezing the mix.

2,641,547
FLAVORING COMPOSITION
James W. Evans, Highland, Ind., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application November 27, 1950, Serial No. 197,846
4 Claims. (Cl. 99—140)

1. A seasoning composition containing fat, seasoning, and gelatinized starch flakes, a major proportion of the starch being of a particle size larger than 50-mesh, the starch flakes having a thickness within the range of $\frac{1}{10000}$ to $\frac{1}{100}$ of an inch, the fat being present in the ratio of from 2 to 9 parts of fat per part of gelatinized starch flakes.

2,641,548
METHOD OF PRESERVING AVOCADOS
Helen W. Heinrich, Little Rock, Calif.
No Drawing. Application April 6, 1950, Serial No. 154,440
4 Claims. (Cl. 99—154)

1. The method of preserving avocado meat which includes blanching the meat in an edible vegetable oil for about one minute at a temperature of from 185° F. to 220° F.

2,641,549
METHOD FOR PREPARING CONDENSED MILK AND SUCH PRODUCTS CONTAINING LACTOSE
Robbert de Vletter, Leeuwarden, Netherlands, assignor to N. V. Lijempf, Leeuwarden, Netherlands
No Drawing. Application March 13, 1950, Serial No. 149,443. In the Netherlands March 16, 1949
3 Claims. (Cl. 99—200)

1. The method of treating a sweetened condensed milk solution supersaturated with lactose which normally deposits large insoluble lactose crystals to cause formation of crystals therein of a size less than about 10μ comprising seeding each cubic millimeter of said supersaturated solution with sufficient particles of lactose crystals insoluble therein exceeding about 400,000 in number of a particle size less than 2.2μ, said number of seeding crystals being applied prior to crystallization of lactose from said supersaturated lactose solution corresponding to the maximum number that would be formed normally with rapid cooling and agitation and said particel size of said seeding crystals corresponding to the maximum critical size whereby after crystallization about said seeding crystals as a nucleus of lactose by deposition from said supersaturated solution would produce crystals less than about 10μ whereby normally applied continuous agitation and rapid cooling is unnecessary.

2,641,550
PROCESS FOR OBTAINING VOLATILE FLAVORS
Kenneth G. Dykstra, Albion, N. Y., and Domenic De Felice, Morristown, N. J.
No Drawing. Application July 17, 1951, Serial No. 237,306
19 Claims. (Cl. 99—205)

1. A process for obtaining volatile flavor constituents and essences in a high degree of concentration from aromatic materials including fruits, vegetables, spices, flowers and the like which comprises vaporizing the volatile flavor constituents in the aromatic material under conditions which prevent impairment of the quality of said constituents, condensing and removing the bulk of the water vapor at a temperature above 32° F., condensing the heavier less volatile base flavor constituents at a temperature within the range of about 32° F. to −95° F., and condensing the more volatile fresh-like flavor constituents at a temperature below −130° F.

2,641,551
METAL COATING COMPOSITION
Herschel G. Smith, Wallingford, Troy L. Cantrell, Lansdowne, and Earl E. Fisher, Yeadon, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 20, 1949, Serial No. 105,902
8 Claims. (Cl. 106—14)

3. A liquid coating composition of the class described consisting essentially of from about 15 to 30 per cent blown asphalt, about 5 to 10 per cent microcrystalline wax, up to 25 per cent filler, up to 10 per cent of a low molecular weight resinous material selected from the group consisting of hydrogenated rosin, rosin and coumarone indene resin 0.01 to 2 per cent of a primary fatty amine salt of 3-methylbutyl, 2-ethylhexyl orthophosphoric acid, and a solvent.

2,641,552
DIELECTRIC MATERIAL
William J. Lies, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
No Drawing. Application May 1, 1950, Serial No. 159,365
4 Claims. (Cl. 106—39)

1. A ceramic dielectric comprising a fired body containing from about 80% to about 99% of titanium dioxide and from about 1% to about 20% of a modifying agent consisting of from 25 to 35 parts of aluminum oxide, 5 to 15 parts of boric oxide, 30 to 40 parts of silicon dioxide, 10 to 20 parts of calcium oxide and 5 to 15 parts of zirconium dioxide.

2,641,553
PREPARATION OF TWO-SIDED MOSAIC
Raymond L. Rulison, Berkley Heights, and Gordon K. Teal, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1948, Serial No. 67,912
2 Claims. (Cl. 117—33.2)

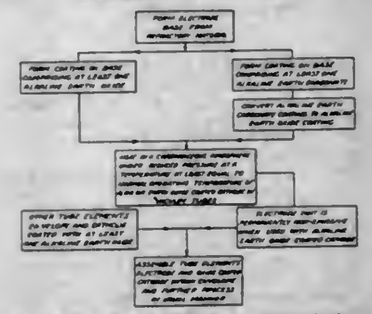


1. The method of preparing a two-sided target comprising the steps of forming an apertured metallic screen having at least 400 apertures to the linear inch with the interiors of the apertures coated with insulating material, placing one side of said screen against a porous support member, pouring over the screen for filling each aperture an aqueous suspension of finely divided solid particles of reducible compounds selected from the group of metals consisting of nickel, copper and silver and of such size that they can pass through the apertures of the screen but not pass through the pores of the support member, applying a difference in pressure between opposite sides of the supporting member for forcing the vehicle of the suspension through the pores of the support member while leaving the solid particles in the apertures of the screen, and reducing the solid particles to metallic form.

2,641,554
PROCESS OF PRINTING TEXTILE FABRIC
Paul L. Meunier, Wilmington, Del., and Robert J. Summerill, Westville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 26, 1951, Serial No. 258,288
5 Claims. (Cl. 117—38)

1. A process of coloring textile fabric which comprises printing the same with an aqueous starch paste containing, in addition to pigment, a binder and a curing catalyst, and then subjecting the fabric to curing at a temperature of about 210° F. to 250° F., the binder being a water-soluble triazone resin obtained by reacting with formaldehyde and acid, at a pH between 0.25 and 4, upon a condensation product of diethylenetriamine, urea and formaldehyde, said binder being present in said aqueous paste in proportion of 0.15 to 4% by weight based on the weight of the entire printing paste, and the catalyst being a compound adapted to furnish acid at the curing temperature.

2,641,555
NONEMISSIVE ELECTRODE AND METHOD OF MAKING
Charles V. Litton, Redwood City, Calif.
Application January 18, 1950, Serial No. 139,186
2 Claims. (Cl. 117—46)



1. A method for making a non-emissive electrode for use in electron discharge devices comprising the steps of forming a base from a refractory metal element selected from the group of non-ferrous metallic elements having a boiling point of 2900 degrees C. or over, a cubic lattice crystalline structure, and appearing in the periodic table in group V or a higher group, consisting of tantalum, platinum, nickel and molybdenum; coating said base with an alkaline earth oxide, and heating the oxide electrode in an atmosphere of a hydrocarbon oil vapor that readily penetrates the pores of the oxide electrode at a temperature sufficient to decompose the hydrocarbon and leave a carbon residue.

2,641,556
MAGNETIC SHEET MATERIAL PROVIDED WITH A SEPARATOR COATING AND METHOD OF MAKING SAME
John C. Robinson, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 14, 1951, Serial No. 215,650
7 Claims. (Cl. 117—46)

1. The method which comprises providing magnetic sheet material with a coating composed

of a suspension of a finely divided refractory separator material in water containing from about 0.3 to 2% by weight of methyl cellulose, drying the coating, at such a temperature and such a rate that the film forming properties of the methyl cellulose are not destroyed, mechanically processing the coated material to place it in the physical condition desired prior to the final anneal thereof to develop its optimum magnetic properties, and box annealing the coated sheet material in multi-ply assembly to develop the magnetic preperties thereof and to form on said sheet material a tightly adhering coating of the inorganic separator material.

2,641,557
PAPER WITH IMPROVED PRINTING CHARACTERISTICS
Barrett K. Green, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
No Drawing. Application November 18, 1948, Serial No. 60,839
3 Claims. (Cl. 117—152)

1. Printing paper including as adsorptive ink bleed resistant print-receiving material particles of solid material the major portion of which are particles of attapulgite in its needle-shaped crystalline form and in its adsorptive condition.

3. The printing paper of claim 1 in which the attapulgite is applied as a constituent of a print-receiving paper surface coating.

2,641,558
WATER REPELLENCE FIXATIVE TREATMENT
Stephen F. Urban, Kenmore, and Warren B. Blumenthal, Niagara Falls, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 24, 1948, Serial No. 67,254
7 Claims. (Cl. 117—154)

1. A process for inducing water repellance in cellulosic fibrous materials which comprises immersing the fibrous material in an aqueous bath containing ammonium dicarbonato zirconylate and a water soluble soap, and thereafter immersing said so treated material in an aqueous solution containing a salt which yields a cation of a metal selected from the group of metals of groups three, four and eight of Mendeleeff's periodic arrangement of the elements, then rinsing and drying the material.

2,641,559
METHOD OF CLEANING AND DESCALING FERROUS ARTICLES AND A BATH THEREFOR
Matti H. Pakkala and Freeman J. Phillips, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey
No Drawing. Application September 8, 1948, Serial No. 48,328
6 Claims. (Cl. 134—3)

1. The process of cleaning ferrous articles which comprises contacting the articles with a fused mixture relatively free of moisture and organic matter, consisting essentially of the following composition given in percentages by weight:

	Per cent
Alkali metal nitrate	40 to 99.9
Alkali metal nitrite	0 to 60
Alkali metal oxide (containing at least 2 atoms of oxygen per molecule)	0.1 to 5.0

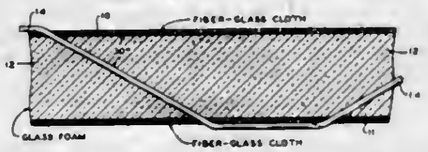
6. A cleaning bath for an oxide-coated ferrous metal article which consists essentially of a fused mixture relatively free of moisture and organic matter, having substantially the following composition in percentages by weight:

	Per cent
Alkali metal nitrate	40 to 99.9
Alkali metal nitrite	0 to 60
Alkali metal oxide (containing at least 2 atoms of oxygen per molecule)	0.1 to 5.0

2,641,560
MEANS OF APPLYING A FLUX
Norris O. Taylor, Media, Pa.
No Drawing. Application July 12, 1949, Serial No. 104,381
3 Claims. (Cl. 148—23)

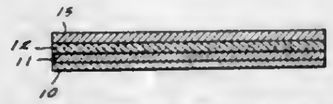
3. A fluxing compound, consisting of a carrier composed of a high melting point fatty substance and a minor portion of zinc soap, and a pre-fused mixture of finely ground soldering flux whose fusion temperature is higher than that of either component of the carrier, said flux being intimately dispersed in the carrier to the extent of substantially twenty percent up to as much flux as the carrier will support.

2,641,561
SANDWICH-TYPE RADOME PANEL
Eric A. Black, Red Bank, N. J.
Application September 8, 1949, Serial No. 114,631
1 Claim. (Cl. 154—45.9)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In an ultra-high frequency system in which an antenna is mounted on an airplane, a sandwich-type housing for said antenna comprising two sheets of fiber-glass cloth in spaced and substantially parallel relation with respect to each other, glass foam interposed between said sheets, the thickness of said fiber-glass sheets being substantially less than that of said glass foam providing an electromagnetic energy transparent housing, and fiber-glass cords reenforcing said panel, each of said cords passing through said panel at an angle of substantially thirty degrees to the respective surfaces thereof and then running along said surfaces a relatively short distance and again passing through said panel at substantially said angle in interlaced fashion, each of said cords being secured at substantially all points along its length to the adjacent glass material, said angle being such that said cords offer a minimum of interference to the passage of electromagnetic energy through said sheets and glass foam.

2,641,562
DECALCOMANIA
Victor E. Chartrand and Paul E. James, Dallas, Tex.
Application November 2, 1950, Serial No. 193,678
2 Claims. (Cl. 154—46.8)

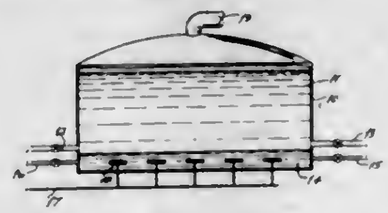


2. A decalcomania comprising a paper carrier, a decalcomania member, a water soluble adhesive on one side of said decalcomania member securing said decalcomania member to said carrier whereby said decalcomania member may be removed therefrom when said carrier has been moistened, a permanently tacky water insoluble coating on the other side of said decalcomania member and formed of phthalic anhydride, glycerine, cocoanut oil and xylol, and a water soluble non-tacky non-adhesive protective coating completely covering said tacky coating.

2,641,563
INSECTICIDAL AND ACARICIDAL COMPOSITION COMPRISING PROPYLENE GLYCOL AND ALKALI AMMONIUM SULFO SULFIDE
Joseph B. Moore, Edina, Minn., assignor to McLaughlin Gormley King Company, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application May 16, 1951, Serial No. 226,739
12 Claims. (Cl. 167—14)

1. A water miscible spray composition for agricultural spraying purposes comprising propylene glycol and alkali ammonium sulfo sulfide.

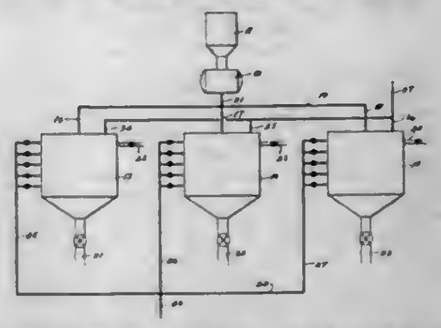
2,641,564
PROCESS OF REMOVING SULFUR FROM PETROLEUM HYDROCARBONS AND APPARATUS
Claude E. ZoBell, La Jolla, Calif., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Application March 31, 1948, Serial No. 18,275
6 Claims. (Cl. 195—3)



1. Apparatus for effecting the reaction between a liquid material and hydrogen in the presence of enzymatic catalysts comprising a reaction chamber, at least two physically-separated tank-like compartments in the bottom of said chamber arranged to contain liquid microbiological nutrient medium of greater density than the liquid to be processed, the medium in one of said compartments being charged with an enzymatic catalyst and the medium in another compartment being charged with a hydrogen-producing bacteria, a fluid connection to charge liquid to be treated to said reaction chamber in a manner to contact the medium in said compartments, and a fluid connection to remove resultant products from said reaction chamber.

5. A method of removing sulfur from petroleum hydrocarbons containing relatively complex sulfur compounds which comprises subjecting said hydrocarbons to contact with a substantial amount of hydrogen in the presence of hydrogenase-producing microorganisms selected from the group consisting of *Desulfovibrio desulfuricans* and *Sporovibrio*, effecting said contact in the presence of a nutrient medium for said microorganisms whereby sulfur is split from said complex compounds in the form of gaseous products and removing said gaseous products therefrom.

2,641,565
TREATMENT OF SHALE
Robert T. Sanderson, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application April 14, 1948, Serial No. 20,867
4 Claims. (Cl. 195—3)



1. A method for treating kerogen-type oil shales for the purpose of facilitating the separation and recovery of hydrocarbon, bituminous substances and the like associated therewith, which comprises subjecting said materials to the action of microorganisms selected from the group consisting of *Clostridium sporogenes*, *Clostridium histolyticicum*, *Clostridium lentoputrescens*, *Pseudomonas fluorescens* and mixtures thereof, in the presence of a microbiological nutrient medium capable of supporting the metabolism of said microorganism.

2,641,566
RECOVERY OF HYDROCARBONS
Claude E. ZoBell, La Jolla, Calif., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 15, 1948, Serial No. 27,363
5 Claims. (Cl. 195—3)

1. A method of treating hydrocarbons and bituminous materials such as those encountered in combination with inorganic aggregate underground deposits and shales and similar formations for the purpose of facilitating separation and recovery of such substances which comprises the steps of contacting said substances with a substantial quantity of oxygen-free hydrogen in the presence of hydrogenase-producing microorganisms selected from the group consisting of *Desulfovibrio desulfuricans* and *Sporovibrio*, effecting said contact in the presence of a microbiological nutrient medium and removing the resulting products.

2,641,567
METHOD OF PRODUCING PENICILLINS
David Perlman, Princeton, and Asger F. Langlykke, Highland Park, N. J., assignors to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia
No Drawing. Application February 25, 1950, Serial No. 146,401
2 Claims. (Cl. 195—36)

2. The method which comprises culturing a penicillin-producing Penicillium in contact with a liquid nutrient medium containing not more than about 1.25% of a carbohydrate source of carbon and energy, the remaining caloric requirement of the culture being provided by a fatty oil, the quantity of fatty oil being at least about 0.75%.

2,641,568

PROCESS FOR PREPARING FUNGAL AMYLASE FROM BUTANOL-ACETONE FERMENTATION STILLAGE

Samuel C. Beesch, Philadelphia, Pa., assignor to Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application March 7, 1949, Serial No. 80,102

1 Claim. (Cl. 195—73)

A process for preparing fungal amylase which comprises forming an aqueous mash comprising essentially the stillage from the fermentation of a member of the group consisting of molasses and grain employing *Clostridium acetobutylicum*, adding about 1% ground corn meal, 0.5% calcium carbonate, 0.002 gram per liter of zinc sulfate powder and 0.014 gram per liter of aluminum powder, adjusting the pH to approximately 5.5, sterilizing the mash by heating at approximately 250° F., cooling, inoculating with approximately 5% inoculum of *Aspergillus niger*, and incubating at about 30° C., for about 48–120 hours while introducing air thereinto.

2,641,569

WAX REFINING PROCESS

Willem Martin Mazee and Anna Barta Swart, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application July 21, 1952, Serial No. 300,124. In the Netherlands July 26, 1951

7 Claims. (Cl. 196—20)

1. In a method of sweating a predominantly paraffin wax to separate therefrom undesirable constituents in the liquid phase, the steps comprising preparing the wax cake for sweating by cooling a molten paraffin wax in a perforated receptacle to a temperature at which a solid wax cake is formed, said solid comprising a wax skeleton being associated with an original pore volume, the latter being initially occupied by liquid constituents at the commencement of sweating, and raising the temperature of said cake at a rate between about 0.025° and about 0.075° F. per minute within a temperature range between about 90° and about 150° F. while maintaining a mechanical pressure on the wax cake of between about 0.3 and about 15 pounds per square inch, whereby the original pore volume of the wax cake is varied by no more than about 10% until at least 90% of the sweated constituents are removed from the cake.

2,641,570

SWEETENING PETROLEUM OILS

Harold A. Ricards, Jr., Cranford, and Byron M. Vanderbilt and Erving Arundale, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 4, 1950, Serial No. 147,764

4 Claims. (Cl. 196—29)

1. Process for sweetening a virgin petroleum naphtha which comprises contacting the naphtha with an oxygen-containing gas in the presence of a sodium hydroxide having a concentration between 0.5 and 10% by weight and containing about 0.05 and 1% of alkali metal rosinate and 0.05 and 0.5% of petroleum phenols, mechanically agitating the mixture to form an emulsion and then cooling the emulsion about 10–50° C. whereupon the emulsion separates into an oil and an aqueous phase.

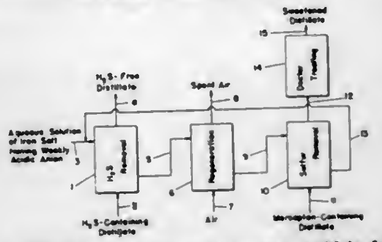
2,641,571

REMOVAL OF OBJECTIONABLE SULFUR COMPOUNDS FROM MINERAL OIL DISTILLATES

Koerner Edward Leutz, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application December 31, 1949, Serial No. 136,209

4 Claims. (Cl. 196—30)



1. Method for removing hydrogen sulfide from a light mineral oil distillate by use of a treating agent which is regenerated during the process which comprises: contacting an H_2S-containing light mineral oil distillate in liquid phase with a liquid aqueous treating agent comprising an aqueous solution of an iron salt having a weakly acidic, organic anion and having solubility in water greater than 10 grams per liter at ordinary temperatures without heating, thereby to react hydrogen sulfide in said distillate with said iron salt to form iron sulfide in said aqueous treating agent; contacting said aqueous treating agent with free-oxygen-containing gas thereby to react said iron sulfide in said aqueous treating agent with the oxygen in said gas to form elemental sulfur in said aqueous treating agent and to regenerate said aqueous treating agent; and reusing the regenerated treating agent for contacting with additional H_2S-containing light mineral oil distillates.

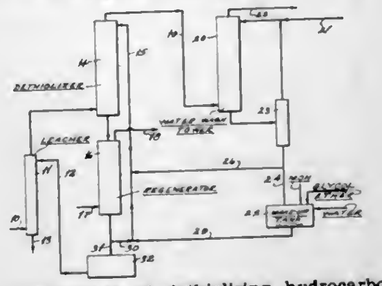
2,641,572

DETHIOLIZING HYDROCARBONS

James L. Meadows, Robert H. Howell, Ambrose J. Startz, and Gordon H. Miller, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application November 30, 1951, Serial No. 259,178

7 Claims. (Cl. 196—32)



1. The process of dethiolizing hydrocarbons that comprises contacting the hydrocarbons in a dethiolizing zone with a solution of alkali metal hydroxide and glycol ether to effect removal of mercaptans, regenerating the used treating solution in a regenerating zone, maintaining a cyclic flow of treating solution as between the dethiolizing zone and regenerating zone, withdrawing from the dethiolizing-regenerating cycle portion of the treating solution and contacting it with hydrocarbon charging stock flowing to the system to thereby leach the glycol ether from the treating solution and withdrawing the separated alkaline material from the system.

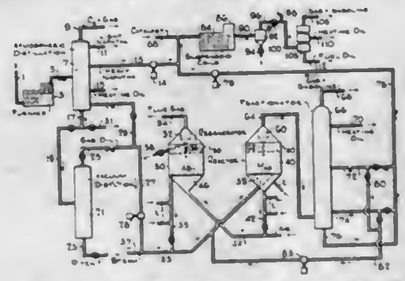
2,641,573

PRODUCTION OF MOTOR FUELS FROM PETROLEUM OILS

John Weikart, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 30, 1950, Serial No. 198,252

11 Claims. (Cl. 196—49)



1. In the process of producing motor fuels from crude petroleum which comprises subjecting crude petroleum to distillation to produce a heavy virgin naphtha fraction boiling between about 200 and 450° F. and a gas oil fraction, subjecting said gas oil fraction to catalytic cracking in a cracking zone in the presence of a dense turbulent fluidized mass of subdivided cracking catalyst at motor fuel producing conditions, withdrawing catalyst from said mass, regenerating said withdrawn catalyst in a regeneration zone by a combustion reaction to remove carbonaceous deposits and reheat the catalyst, returning hot regenerated catalyst from said regeneration zone to said mass, withdrawing cracked products from said cracking zone, fractionating said cracked products in a fractionation zone, withdrawing from said fractionation zone a fraction containing motor fuels and a cycle oil fraction boiling above about 700° F., the improvement which consists of combining at least a major portion of said cycle oil fraction with at least a portion of said heavy virgin naphtha fraction to produce a mixture containing about 20–80 vol. percent of virgin naphtha, passing said mixture substantially in the vapor phase through a narrowly confined path at temperatures of about 1000°–1200° F., pressures of about 300–600 p. s. i. g. and residence times corresponding to throughputs of about 5–20 v./v./hr. in the presence of finely divided cracking catalyst suspended in said mixture in a proportion of about 2 to 30 pounds of catalyst per liquid barrel of mixed feed, withdrawing reaction products from said path and recovering motor fuels from said reaction products.

2,641,574

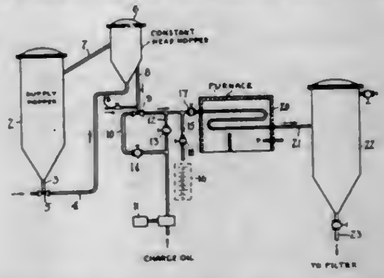
PROCESS AND APPARATUS FOR DECOLORIZING OIL

Stanley Arthurs, Solon, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application July 21, 1949, Serial No. 105,941

2 Claims. (Cl. 196—147)

2. The process of de-colorizing fluid oils comprising feeding a pulverulent contact agent from the bottom of a supply source to the bottom of a constant head zone through a conduit by introducing a gas under pressure into the conduit and maintaining a fluidized agitated mass of agent in the constant head zone, passing the overflow of the agent from the upper part of the constant head zone back to the source of supply, feeding the oil through a conduit having an entraining zone therein, feeding the contact agent from an intermediate portion of the constant head zone to the entraining zone through a conduit connecting the two zones feeding an additional pressurized gas into the last named conduit to maintain the agent in an agitated state and prevent clogging in the conduit, proportioning the rate of feed of the pulverulent agent and oil by by-passing a controlled amount of oil around the entraining zone, and collecting the oils and agent in a receiving tank.



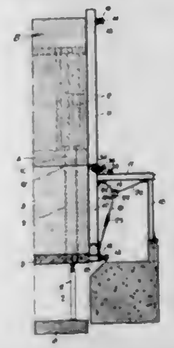
2,641,575

COKE OVEN BUCKSTAY STRUCTURE

Carl Otto, Manhasset, N. Y.

Application January 21, 1949, Serial No. 71,829

5 Claims. (Cl. 202—268)



1. In a coke oven battery comprising a masonry upper section with elongated coking chambers therein extending between the opposite sides of the batteries and with heating walls at the sides of the coking chambers and comprising a lower masonry section with chambers therein for preheating gaseous combustion material, said upper section having a higher average thermal expansion in the horizontal direction transverse to the length of the battery than said lower section, the improvement comprising vertical buckstays at the sides of the battery each comprising a lower section and an upper section movable rela-

tive to said lower section and yielding means directly interconnecting the adjacent upper and lower buckstay sections for differential movement of the sections, the said connection directly opposing the movement of the upper section relative to the lower section, and associated means for regulating the relative movements of the adjacent upper and lower buckstay sections.

2,641,576

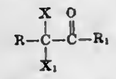
PHOTOPOLYMERIZATION PROCESS AND COMPOSITIONS

Carrol C. Sachs, North Hollywood, and John Bond, Los Angeles, Calif., assignors to Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif., a corporation of Nevada

No Drawing. Application November 6, 1948, Serial No. 58,814

11 Claims. (Cl. 204—158)

1. As a composition of matter, a catalyzed photopolymerizable resinophor composition consisting essentially of an ethylenically unsaturated resinophor containing dispersed therein a minor proportion of a halogenated mono ketaldonyl having the formula:



where R is selected from the group consisting of halogen atoms and monovalent hydrocarbon groups consisting solely of hydrogen and carbon atoms, X is a halogen atom, X_1 is selected from the group consisting of halogen atoms and hydrogen atoms, and R_1 is selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups consisting solely of hydrogen and carbon atoms.

2,641,577

LITHIUM-CALCIUM LUBRICATING GREASE COMPOSITION

Rosemary O'Halloran, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 22, 1951, Serial No. 233,099

6 Claims. (Cl. 252—40)

1. A lubricating composition which comprises a lubricating oil thickened to a grease consistency with a mixture of the lithium and calcium soaps of an unsubstituted substantially saturated high molecular weight saponifiable material wherein the molar ratio of the lithium soap to the calcium soap is within a range of from 6:1 to 3:1.

2,641,578

COMPOUNDED LUBRICATING OIL

Charles A. Weisel, Somerville, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 16, 1950, Serial No. 150,103

8 Claims. (Cl. 252—51.5)

1. A composition consisting essentially of a mineral lubricating oil containing dissolved therein 0.01 to 10% of an amine salt of pentachlorophenol, the amine portion of said salt containing a total of not less than eight carbon atoms and is a member of the class consisting of aliphatic and cycloaliphatic amines.

2,641,579

AZEOTROPIC REFRIGERANT COMPOSITION OF MONOCHLORODIFLUOROMETHANE AND CHLOROPENTAFLUOROETHANE

Anthony Francis Benning, Woodstown, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 2, 1951, Serial No. 213,674

2 Claims. (Cl. 252—67)

1. A low-boiling refrigerant composition which consists of a mixture of monochlorodifluoromethane and chloropentafluoroethane in which the mol percent of monochlorodifluoromethane is 63.

2,641,580

AZEOTROPIC REFRIGERANT COMPOSITION OF 1,1-DIFLUOROETHANE AND MONOCHLOROPENTAFLUOROETHANE

Hamilton Lewis, Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 2, 1951, Serial No. 213,673

2 Claims. (Cl. 252—67)

1. A low-boiling refrigerant composition which consists of a mixture of 1,1-difluoroethane and monochloropentafluoroethane in which the mole percent of monochloropentafluoroethane is 69.

2,641,581

METHOD OF TRANSMITTING HEAT

Ettore Da Fano, Somerville, N. J., assignor, by mesne assignments, to John B. Pierce Foundation, New York, N. Y., a corporation of New York

No Drawing. Application August 3, 1949, Serial No. 108,430. In Great Britain December 6, 1948

2 Claims. (Cl. 252—78)

1. In a process for transmitting heat to materials in indirect contact with a heat transmitting medium, the step of employing as a heat transmitting medium a mixture consisting essentially of at least two of the compounds triisopropyl-mono-phenyl orthosilicate, di-isopropyl-diphenyl orthosilicate and mono-isopropyl-triphenyl orthosilicate.

2,641,582

REGENERATION OF A PLATINUM-CONTAINING CATALYST

Vladimir Haensel, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 3, 1950, Serial No. 188,279

2 Claims. (Cl. 252—416)

1. The method of reactivating a carbonized catalyst comprising alumina, from about 0.01% to about 1% by weight of platinum and from about 0.1% to about 8% by weight of halogen, which comprises treating said catalyst with air at a temperature of from about 500° to about 700° F. for a period of from about 6 to about 30 hours and then further treating the catalyst with air at a temperature of from 800° to 1000° F. for a period from about 1 to about 6 hours.

2,641,583

PROCESS FOR PRODUCING SILICA GEL SPHERES IN OIL

John L. Gring, Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 15, 1948, Serial No. 54,817

2 Claims. (Cl. 252—448)

1. In the production of discrete particles of silica gel in substantially spherical form, the improvement which consists of spraying a stable aqueous solution of sodium silicate above an oil saturated with sulfur dioxide wherein the sprayed droplets of said solution drop into the oil, and recovering the particles from the acidic oil.

2,641,584

ADHESIVE COMPOSITIONS, INCLUDING AN AMYLACEOUS MATERIAL AND A TRIAZONE

Thomas A. Martone, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 26, 1951, Serial No. 253,447

6 Claims. (Cl. 260—17.3)

1. An aqueous adhesive and finishing composition which contains from 10 to 30% by weight of an amylaceous material, from 0.5 to 2% by weight aluminum sulfate calculated as the anhydrous salt, and from 0.3 to 5% by weight of a water-soluble reaction product of urea, formaldehyde and a primary amine, said reaction product containing triazone rings in which methylene groups are attached to the nitrogen atoms adjacent to the carbonyl group, said triazone rings being formed during reaction of the urea, formaldehyde and the amine in alkaline solution, there being employed in the preparation of the said reaction product for each mole of the primary amine from $0.75p$ to n moles of urea, where p represents the number of primary amino groups and n represents the total number of amino groups in each molecule of primary amine, and at least $(2u+1.5p)$ moles of formaldehyde, where u represents the number of moles of urea used.

2,641,585

SYNTHETIC FIBER PREPARATION FROM SOLUTIONS OF ACRYLONITRILE POLYMERS IN DIMETHYL PHOSPHITE

George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application November 21, 1950, Serial No. 196,942

7 Claims. (Cl. 260—30.6)

1. A new composition of matter comprising a homogeneous miscible mixture of from 65 to 95 per cent by weight of dimethyl phosphite and from five to 35 per cent of a copolymer of at least 75 per cent of acrylonitrile and up to 25 per cent of another copolymerizable monomer.

2,641,586

THIXOTROPIC COMPOSITIONS

Birger W. Nordlander, Schenectady, and John A. Loritsch, Scotia, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1949, Serial No. 136,413

11 Claims. (Cl. 260—40)

1. A thixotropic composition comprising (1) a polymerizable solventless varnish comprising a liquid unsaturated alkyd resin obtained by the esterification of a mixture of ingredients comprising a polyhydric alcohol and an alpha unsaturated alpha, beta polycarboxylic acid and (2) a filler effective to maintain said composition in the fluid state under mechanical agitation and in the gel state in the absence of such agitation comprising a material selected from the class consisting of Georgia kaolin, catalpo clay, bucca clay, Kentucky ball clay, bentonite clay containing more than 0.3 percent by weight thereof moisture, and bentonite clay treated to bring the pH of the latter to the acid side, the aforesaid fillers, with the exception of the bentonite filler, comprising from 40 to 60 percent, by weight, of the total weight of the solventless varnish and the filler, the bentonite filler comprising from 30.3 to 60 percent, by weight, of the total weight of the bentonite and solventless varnish.

2,641,587

THIXOTROPIC COMPOSITIONS

Birger W. Nordlander and Robert E. Burnett, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1949, Serial No. 136,418

8 Claims. (Cl. 260—40)

1. A thixotropic composition comprising a polymerizable liquid comprising a liquid unsaturated alkyd resin obtained by the esterification of a mixture of ingredients comprising a polyhydric alcohol and an alpha unsaturated alpha, beta polycarboxylic acid and a polymerizable glycol ester of methacrylic acid and a filler selected from the class consisting of catalpo clay, bucca clay, Kentucky ball clay, Georgia kaolin and bentonite, the said filler comprising, by weight, from 35 to 53 percent of the total weight of the filler and the polymerizable liquid, and the unsaturated alkyd resin being present, by weight, in an amount up to at most one part of the latter per part of the aforesaid polymerizable glycol ester.

2,641,588

HALOGEN CONTAINING RESIN STABILIZED WITH AN ORGANO TIN COMPOUND

William E. Leistner and Olga H. Knoepke, Brooklyn, N. Y., assignors to Argus Chemical Laboratory, Inc., a corporation of New York

No Drawing. Application February 7, 1952, Serial No. 270,532

7 Claims. (Cl. 260—45.75)

1. A plastic composition having improved heat stability at temperatures of about 350° F. and improved surface appearance after storage, said plastic composition comprising a blend of a polyvinyl halide and a stabilizer therefor, said stabilizer having the general formula

$$R'_n—Sn—X_{4-n}$$

wherein R' represents a radical selected from the group consisting of alkyl, aryl, oxyalkyl, oxyaryl, and the furfuryl and tetrahydrofurfuryl radicals, X an ester of a mercaptoacid having from 2–6 carbon atoms, whose sulfur atom is linked to the tin, and n an integral number from 1–3.

2,641,589

COMPOSITION OF FLUID METHYL POLYSILOXANES

Pierre Jean Chevalier, Lyon, France, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a French body corporate

No Drawing. Application November 28, 1949, Serial No. 129,881. In France December 7, 1948

2 Claims. (Cl. 260—46.5)

1. A process for the production of a composition of fluid methyl polysiloxanes which comprises hydrolysing at room temperature in solution in diethyl ether methyl halogeno-silanes having a CH_3:Si ratio of between 1.15 and 1.35 using liquid water as the sole hydrolysing agent, subjecting the methyl polysiloxane resin thus obtained to distillation under reduced pressure and recovering as a distillate the composition of fluid methyl polysiloxanes as the fraction of a low degree of condensation which has a CH_3:Si ratio of between 1.15 and 1.35 which contains only 8 to 20 silicon atoms in the polysiloxane molecule which boils between 120 and 250° C. at a pressure of 8 mm. of mercury, and which gels under the action of lead naphthenate at room temperature.

2,641,590

CARBON MONOXIDE COPOLYMERS AND A CATALYTIC PROCESS FOR THEIR PREPARATION

Ernest L. Little, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 18, 1950, Serial No. 180,301

24 Claims. (Cl. 260—63)

1. A process which comprises reacting carbon monoxide with a monoolefin at a temperature of at least 250° C. under a pressure of at least 1000 atmospheres in the presence of a catalyst selected from the class consisting of elementary alkali metals, alkali metal hydrides, alkali metal alkyls, alkali metal aryls, alkali metal aralkyls, sodiumanthracene, lithiumanthracene and sodiumacridine.

2,641,591

METHOD OF MANUFACTURING ACETONE-FORMALDEHYDE CONDENSATION PRODUCTS

Dmitry M. Gagarine, Danville, Va., assignor to Dan River Mills, Incorporated, a corporation of Virginia

No Drawing. Application May 12, 1949, Serial No. 92,958

1 Claim. (Cl. 260—64)

A process of producing an acetone-formaldehyde condensation reaction product comprising preparing a solution of one mol of acetone, from about two to four mols of formaldehyde, approximately 0.1% to 1.5% of sodium hydroxide as a strong alkali catalyst and approximately 0.2% to 3% sodium carbonate as a milder alkali catalyst, based on the total weight of the condensation reactants, dividing this solution into a plurality of relatively small batches and confining each of these batches prior to any substantial reaction in separate tightly sealed substantially filled containers capable of withstanding pressures of about 16 pounds per square inch wherein the condensation reaction may take place over a period of time with a controlled rise in temperature and increase in pressure within each of the containers, and maintaining said reaction mixture within the containers until the catalysts have exhausted and the resulting acetone-formaldehyde condensation reaction product is quiescent, said batches being of such a size as will develop an autogenous pressure of about 16 pounds per square inch.

2,641,592

PRODUCTION OF POLYETHYLENE TEREPHTHALATE WITH COBALTOUS ACETATE AS CATALYST

Charles H. Hofrichter, Jr., Madison, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 24, 1951, Serial No. 238,380

12 Claims. (Cl. 260—75)

1. In the process for producing filament- and film-forming polyethylene terephthalate wherein ethylene glycol is reacted under ester interchange conditions with an ester of terephthalic acid and a saturated aliphatic monohydric alcohol containing from 1 to 4 carbon atoms, and the resulting glycol terephthalate is polymerized, the improvement which comprises carrying out the polymerization reaction in the presence of catalytic amounts of cobaltous acetate.

2,641,593

POLYAMIDE RESINS

Howard M. Teeter and John C. Cowan, Peoria, Ill., assignors to United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 27, 1950, Serial No. 152,270

13 Claims. (Cl. 260—78)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for producing a synthetic resin comprising reacting one molecular proportion of an adduct of the group consisting of an unsaturated fatty acid containing at least 7 carbon atoms, an ester of such an acid, mixtures of said acids, and mixtures of said esters, with an anhydride selected from the group consisting of citraconic anhydride and itaconic anhydride, with approximately five molecular proportions of a hydrocarbon primary diamine at a temperature of from 100° C. to 200° C. until a fusible linear resin is formed, the unsaturation of said acid and ester being ethylenic bonds solely.

2,641,594

VINYLIDENE BIS(HYDROCARBON SULFONES) AND THEIR POLYMERS

Arthur L. Barney, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 16, 1951, Serial No. 226,747

23 Claims. (Cl. 260—79.3)

1. A vinylidene bis(hydrocarbon sulfone) in which the hydrocarbon radical in each hydrocarbon sulfone group is free from aliphatic unsaturation.

2,641,595

PRODUCTION OF CLEAR TRANSPARENT POLYMERS

Robert F. Leary, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 31, 1949, Serial No. 136,392

1 Claim. (Cl. 260—88.1)

In a process for copolymerizing a mixture of isobutylene and styrene at a temperature of about

—80° C. to —100° C. in the presence of aluminum chloride dissolved in methyl chloride as solvent, the improvement which comprises maintaining a continuously agitated polymerizing mixture of said styrene and isobutylene in a constant concentration in 2 to 4 volumes of methyl chloride as solvent and at a constant volume, maintaining a substantially constant conversion level of said polymerizing mixture at about 40 to 80% conversion, continuously adding a mixture of 38 to 32% by weight of isobutylene and 62 to 68% by weight of styrene in a substantially fixed ratio relative to each other to said polymerizing mixture, simultaneously continuously removing isobutylene, styrene and a copolymerization product containing about 58 to 62% combined styrene and having an intrinsic viscosity of about 0.7 to 1.5 and a light transmission of at least 60% in ¼" molded layer from the polymerizing mixture, and adjusting the ratio of the total amount of isobutylene and styrene added to the mixture of isobutylene, styrene and product removed so that the concentration of isobutylene and styrene and product in the polymerizing mixture is maintained constant.

2,641,596

ORGANIC DERIVATIVES OF TETRAVALENT TIN

William E. Leistner, Brooklyn, and Arthur C. Hecker, Richmond Hill, N. Y., assignors to Argus Chemical Laboratory, Inc., a corporation of New York

No Drawing. Application February 7, 1952, Serial No. 270,531

12 Claims. (Cl. 260—98)

1. As a new compound, a product corresponding to the formula

$$R_n—Sn—X_{4-n}$$

wherein R stands for a radical selected from the group consisting of alkyl, aryl, oxyalkyl, oxyaryl, furfuryl and tetrahydrofurfuryl radicals, X for an ester of a monobasic mercapto acid having from 2 to 6 carbon atoms with a monohydric alcohol, the sulfur atom being linked to the tin, and n for an integral number from 1 to 3.

2,641,597

FURANS AND METHOD OF PRODUCTION

Moses Wolf Goldberg, Upper Montclair, and Albert Israel Rachlin, Hackensack, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application February 1, 1952, Serial No. 269,618

15 Claims. (Cl. 260—251)

1. A compound of the class consisting of 2-phenyl-5-(R-phenyl)furans and the acid addition salts thereof, wherein R is a member of the group consisting of 4,5-dihydro-2-imidazolyl, 4,5-dihydro-C-lower alkyl-2-imidazolyl, and 1,4,5,6-tetrahydro-2-pyrimidyl radicals.

10. A process which comprises reacting a 2-phenyl-5-[(α-imino lower alkoxy methyl)phenyl]furan hydrochloride with a member of the group consisting of 1,2-diamino- and 1,3-diamino alkanes to form 2-phenyl-5-(R-phenyl)furans, wherein R is a member of the group consisting of 4,5-dihydro-2-imidazolyl, 4,5-dihydro-C-lower alkyl-2-imidazolyl, and 1,4,5,6-tetrahydro-2-pyrimidyl radicals.

2,641,598

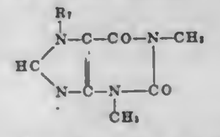
IODOMETHYLATE COMPOUNDS OF THE DIMETHYL XANTHINE SERIES

Alexis J. M. Moussalli, André Soubiran, and Pierre Chabrier, Paris, France

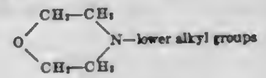
No Drawing. Application June 13, 1949, Serial No. 98,872. In France June 28, 1948

2 Claims. (Cl. 260—253)

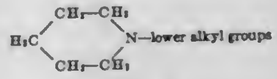
2. An iodomethylate quaternary ammonium compound of a tertiary-amino-alkyl-dimethyl-xanthine of the general formula



in which R_7 stands for a group selected from the class consisting of (di-lower-alkyl-amino)-lower alkyl groups,



and



2,641,599

DIBENZOYLETHYLENE COMPOUNDS AND METHOD FOR PRODUCING THE SAME

Moses Wolf Goldberg, Upper Montclair, and Albert Israel Rachlin, Maywood, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application November 24, 1950, Serial No. 197,491

8 Claims. (Cl. 260—309.6)

1. A compound selected from the group consisting of 1-benzoyl-2-[p-(4,5-dihydro-2-imidazolyl)benzoyl]ethylene and 1-benzoyl-2-(p-guanylbenzoyl)-ethylene, and the acid addition salts thereof.

2,641,600

ALKENYLATION OF FURANS

Arthur A. Harban, Lansing, Ill., and Carl E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application November 30, 1950, Serial No. 198,482

8 Claims. (Cl. 260—346.1)

1. The process of preparing an alkenyl furan that comprises reacting a furan compound, having an unsubstituted alpha hydrogen, with a conjugated diolefin having between four and about twelve carbon atoms per molecule at a temperature between about —30° and 60° C. in the presence of at least about 0.02 mol of non-olefinic hydrocarbon sulfonic acid, per mol of the selected furan compound, in the form of a sulfonic acid-oxonium salt complex catalyst, that is stable under reaction conditions and is formed by mixing a non-olefinic hydrocarbon sulfonic acid having at most five carbon atoms per molecule with a saturated ether compound that is capable of forming a complex with the sulfonic acid.

2,641,601

FURANS AND METHOD OF PREPARATION

Moses Wolf Goldberg, Upper Montclair, and Albert Israel Rachlin, Maywood, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application November 24, 1950, Serial No. 197,492
6 Claims. (Cl. 260—347.3)

1. A compound of the class consisting of 2,5-diphenyl-furans and 2,5-diphenyl-monochlorofurans wherein at least one of the phenyls has attached thereto a member of the group consisting of guanyl, and dialkylaminoalkylcarbamyl radicals, and the acid addition salts thereof.

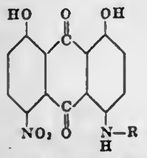
2,641,602

1,8-DIHYDROXY - 5 - NITRO - 4 - HYDROXYETHYLPHENYL AMINOANTHRAQUINONE COMPOUNDS

James M. Straley and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 29, 1950, Serial No. 198,243
10 Claims. (Cl. 260—380)

1. The anthraquinone compounds having the general formula:



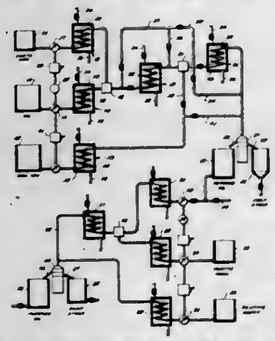
wherein R represents a phenylethyl alcohol nucleus.

2,641,603

REFINING OF GLYCERIDE OILS

Benjamin Clayton, Pasadena, Calif.

Application September 18, 1950, Serial No. 185,434
5 Claims. (Cl. 260—425)



5. The process of alkali refining a glyceride oil, which comprises, mixing a concentrated aqueous solution of caustic soda with said oil, said solution of caustic soda having a concentration between approximately 25° and 50° Bé. and being added in an amount sufficient to neutralize the acidity of said oil without providing any substantial excess of said caustic soda, maintaining the temperature of said oil and solution of caustic soda at a temperature not higher than approximately 110° F., thereafter admixing an aqueous solution of soda ash with said oil and continuously centrifugally separating the resulting aqueous soapstock from said oil at a temperature between approximately 100° and 160° F., said solution of soda ash having a concentration between approximately 10° and 20° Bé. and being added in an amount sufficient to cause said soapstock to separate cleanly from said oil, and thereafter mixing said oil with a solution of caustic soda having a concentration between approximately 20° and 50° Bé. and in an amount between approximately 0.5% and 4% of the weight of said oil, and continuously centrifugally separating an additional amount of soapstock from said oil at a temperature between approximately 120° and 180° F.

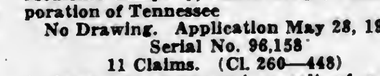
2,641,604

ALUMINUM SALTS OF DIBASIC AMINO ACIDS

John W. Le Maistre and Irvine W. Grote, Chattanooga, Tenn., assignors to The Chattanooga Medicine Company, Chattanooga, Tenn., a corporation of Tennessee

No Drawing. Application May 28, 1949, Serial No. 96,158
11 Claims. (Cl. 260—448)

1. As a new compound, a salt of a dibasic amino acid having the formula



where X is a member of the group consisting of the alkali metals, alkaline earth metals, ammonium ion, hydroxy substituted alkaline earth metal ion, and $Al(OH)_2$ and m and n are integers 1 or 2.

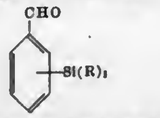
2,641,605

TRIORGANOSILYLBENZALDEHYDES

Kurt C. Frisch and Phiroze D. Shroff, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application May 15, 1952, Serial No. 288,037
5 Claims. (Cl. 260—448.2)

1. A composition of matter comprising a compound having the general formula



where R is a monovalent hydrocarbon radical selected from the class consisting of alkyl, aryl, aralkyl, alkaryl, cycloalkyl and cycloalkene radicals.

2,641,606

PROCESS FOR PRODUCTION OF TETRA ESTERS OF DIPHOSPHORIC ACID

Leonard W. Harris, Richmond, George R. Sanders, El Cerrito, and Carroll C. Cassil, Berkeley, Calif., assignors to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware

No Drawing. Application November 29, 1946, Serial No. 713,116
4 Claims. (Cl. 260—461)

1. A process of preparing tetra-alkyl diphosphates which comprises intimately reacting a phosphorus oxyhalogenide with a trialkyl phosphate in which the alkyl radicals contain from 1 to 3 carbon atoms in a molar ratio of one mol of the former to from 4 to 7 mols of the latter at a reaction temperature of at least 130° C. and below the decomposition temperature of the resulting tetra-alkyl diphosphate.

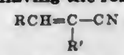
2,641,607

METHOD FOR PREPARING UNSATURATED NITRILES

Charles J. Albisetti, Jr., and Norman G. Fisher, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Continuation of application Serial No. 101,905, June 28, 1949. This application June 15, 1950, Serial No. 168,387
15 Claims. (Cl. 260—465.3)

1. A method for preparing unsaturated nitriles which comprises heating at a temperature of 215° to 330° C. under superatmospheric pressure of 25 to 1020 atmospheres, a mixture free from a polymerization catalyst and containing a neutral ethylenically unsaturated compound having from 1 to 2 ethylenically unsaturated non-conjugated double bonds as the sole aliphatic carbon-to-carbon unsaturation, and having adjacent to one of the doubly bonded carbons a carbon atom having attached thereto at least one hydrogen atom and the said doubly bonded carbon atoms being free of cyano groups attached thereto, and a 2-alkenenitrile having the formula



wherein R and R′ are selected from the class consisting of hydrogen and alkyl radicals, and separating from the reaction mixture as the resulting product an unsaturated nitrile having at least six carbon atoms and having a non-conjugated double bond attached to the carbon in the 5-position.

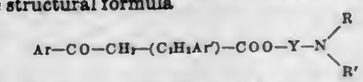
2,641,608

BASICALLY SUBSTITUTED ALKYL ESTERS OF γ-AROYLARYLBUTYRIC ACIDS AND THEIR SALTS

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 3, 1950, Serial No. 172,023
17 Claims. (Cl. 260—469)

1. The new group of organic compounds consisting of the esters of aroylarylbutyric acids of the structural formula



and the non-toxic salts thereof, wherein Ar and Ar′ are members of the group consisting of phenyl radicals and halogen-, lower alkyl- and methoxy-substituted phenyl radicals, Y is a lower alkylene radical, and NRR′ is a member of the class consisting of lower dialkylamino and morpholino radicals.

2,641,609

THERAPEUTIC COMPOUND AND METHOD OF PREPARING THE SAME

Richard U. Schock, Jr., Waukegan, and Donalee L. Tabern, Lake Bluff, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application May 11, 1950, Serial No. 161,466
11 Claims. (Cl. 260—479)

1. A compound selected from the class consisting of 2,3,5-trihydroxybenzoic acid, a 2,3,5-trialkacyl ester of 2,3,5-trihydroxybenzoic acid, said acyl group containing up to and including four carbon atoms, and their water-soluble salts of a non-toxic metal selected from the class consisting of alkali metal, alkaline earth metal, and the ammonium ion.

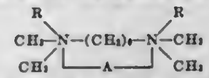
2,641,610

QUATERNARY AMMONIUM SALTS

Harry James Barber, Dagenham, England, assignor to May & Baker Limited, Dagenham, England, a British company

No Drawing. Application October 18, 1951, Serial No. 252,003. In Great Britain October 27, 1950
3 Claims. (Cl. 260—501)

1. A compound of the general formula:



where R represents a member of the class consisting of methyl and ethyl and A represents the residue of 2:2-dihydroxy-1:1-dinaphthylmethane-3:3-dicarboxylic acid (embonic acid)

2,641,611

METHOD OF PRODUCING BERYLLIUM BASIC ACETATE

Henry C. Kawecki, Temple, Pa., assignor to The Beryllium Corporation, Reading, Pa., a corporation of Delaware

No Drawing. Application September 12, 1947, Serial No. 773,737
13 Claims. (Cl. 260—541)

1. The method of producing beryllium basic actate which comprises heating to a temperature of 70–90° C. a mixture of beryllium oxide and a stoichiometric excess of acetic anhydride whereby exothermic reaction therebetween is initiated, permitting the mixture to react, and recovering the beryllium basic acetate so produced.

2,641,612

VANILLIC ACID DIETHYLAMIDE

Karl Kratzl and Erich Kvasnicka, Vienna, Austria, assignors to Osterreichische Stickstoffwerke Aktiengesellschaft, Linz (Donau), Austria

No Drawing. Application July 7, 1950, Serial No. 172,614. In Austria July 15, 1949
1 Claim. (Cl. 260—559)

An analeptic compound consisting of vanillic acid diethylamide, which has a very marked action on the respiratory center and on blood pressure.

2,641,613

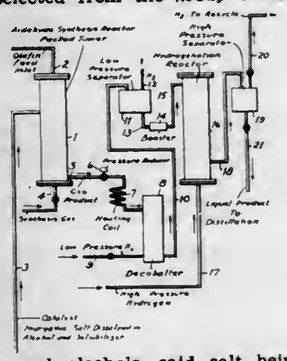
CATALYTIC SYNTHESIS OF ALCOHOLS

Joseph K. Mertzweiller, Baton Rouge, and Paul T. Parker, East Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 1, 1948, Serial No. 36,516
4 Claims. (Cl. 260—604)

1. In a continuous carbonylation process wherein olefinic carbon compounds, carbon monoxide and hydrogen are contacted at elevated temperatures and at a pressure in the range of from 2,000 to 4,000 p. s. i. g., with a carbonylation catalyst under conditions to produce aldehydes containing one more carbon atom than said olefinic carbon compounds, the improvement which comprises subjecting the reactants to synthesizing conditions of temperature and pressure in the presence of a catalyst comprising an inorganic salt of cobalt dissolved in an or-

ganic solvent which is a first stage carbonylation product selected from the group consisting of



aldehydes and alcohols, said salt being solubilized by an alkyl ether of ethylene glycol.

2,641,614

CONDENSATION PRODUCTS OF STYRENE OXIDE WITH ALKYLENE OXIDES AND METHOD OF MAKING THE SAME

Edgar C. Britton and Peter S. Petrie, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application January 2, 1951, Serial No. 204,082
8 Claims. (Cl. 260—611)

1. A polymeric composition comprising a mixture of interpolymers of styrene oxide and at least one alkylene oxide containing from 2 to 4 carbon atoms in the molecule, which mixture of interpolymers has an average molecular weight of at least 300, and in which mixture of interpolymers the styrene oxide and the alkylene oxide are chemically combined in amounts corresponding to from 0.1 to 9 molecular proportions of the styrene oxide per molecular equivalent proportion of the alkylene oxide.

5. A method of making a polymeric composition consisting of a mixture of polyglycols having an average molecular weight of at least 300, which comprises interpolymerizing a mixture consisting of styrene oxide and at least one alkylene oxide containing from 2 to 4 carbon atoms in the molecule, in amounts corresponding to from 0.1 to 9 molecular proportions of the styrene oxide per molecular equivalent proportion of the alkylene oxide, by heating the oxide reactants in liquid phase while in admixture with from 1 to 10 per cent by weight of a glycol and from 0.1 to 0.5 per cent of an alkali metal hydroxide to a reaction temperature between 80° and 200° C. at superatmospheric pressure.

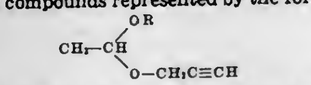
2,641,615

MIXED ACETALS OF 2-PROPYN-1-OL

Roger F. Kleinschmidt, Belvidere, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 22, 1952, Serial No. 267,705
6 Claims. (Cl. 260—615)

1. New compounds represented by the formula:



wherein R is an alkyl group of from 1 to 4 carbon atoms.

2,641,616

PURIFICATION OF CHEMICAL COMPOUNDS

Leo Philipp Ellinger, London, England, assignor to The British Oxygen Company Limited, London, England, a British company

No Drawing. Application July 26, 1950, Serial No. 176,059. In Great Britain June 17, 1949
7 Claims. (Cl. 260—616)

1. In the preparation of a vinyl ether by vinylating an alcohol of the C_4–C_8 range, the step of reducing the alcohol content of a mixture containing the vinyl ether and its corresponding alcohol by treating the mixture with a scrubbing solvent consisting essentially of an aqueous solution of a salt selected from the group consisting of alkali metal phenates, cresylates, and xylenates, said solution containing at least 20% by weight of the alkali metal salt, to form a solution of the alcohol therein, and subsequently separating the alcohol solution so formed.

2,641,617

HALOGENATION PRODUCTS OF 1,1-DIPHENYL-2,2-DIMETHYL-PROPANE

Edward F. Rogers, Middletown, and Horace D. Brown, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application February 16, 1950, Serial No. 144,593
3 Claims. (Cl. 260—649)

1. An insecticidal composition comprising a halogenation product of 1,1-diphenyl-2,2-dimethyl-propane selected from the group consisting of the reaction product of the chlorination of 1,1-diphenyl-2,2-dimethyl-propane under conditions favoring ring substitution wherein the boiling point is between 160° C. and 187° C. at 1 mm. pressure and the chlorine component does not exceed about 32.3% on a weight basis and the reaction product of the bromination of 1,1-diphenyl-2,2-dimethyl-propane under conditions favoring ring substitution wherein the boiling point is between 150° C. and 187° C. at 1 mm. pressure and the bromine component does not exceed 40.8% on a weight basis.

2,641,618

HYDROGENATION OF 1,1-DIPHENYL-2,2-DIMETHYL-PROPANOL-1

Edward F. Rogers, Middletown, and Horace D. Brown, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application February 16, 1950, Serial No. 144,592
2 Claims. (Cl. 260—667)

1. The process that comprises reacting 1,1-diphenyl-2,2-dimethyl-propanol-1 with hydrogen in the presence of a copper chromite catalyst, and recovering the 1,1-diphenyl-2,2-dimethyl-propane thus formed.

2,641,619

PRODUCTION OF DIOLEFINS FROM OLEFINS

Charles R. Noddings, George W. Waldron and John W. Corey, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 26, 1950, Serial No. 202,808
4 Claims. (Cl. 260—680)

1. In a method wherein an olefine having at least 4 carbon atoms in the unsaturated carbon chain of the molecule is dehydrogenated to form a corresponding aliphatic conjugated diolefine by passing the olefine, together with steam, at reaction temperatures not exceeding 750° C. through a bed of a dehydrogenation catalyst comprising, as its catalytically active principal ingredient, a normal calcium nickel ortho-phosphate material having, chemically combined with the phosphate radicals, from 6 to 12 atoms of calcium per atom of nickel, the step of supporting the bed of catalyst on, and confining it by, surfaces of at least one substantially inert solid material, of the group consisting of nickel-free chromium alloy steels and ceramic materials which are solid and rigid at the reaction temperature, while carrying out the reaction by passing the heated reaction vapors through the catalyst bed and into contact with the material confining the bed.

2,641,620

PROCESS FOR THE FINISHING OF POLYISOBUTYLENE

Joseph R. Quelly, Cranford, and Stanley A. Sankus, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 18, 1950, Serial No. 150,562
3 Claims. (Cl. 260—683.15)

3. In the process for preparing low sulfur content dimer and trimer polymers of isobutylene by the selective sulfuric acid absorption and polymerization of isobutylene, the improvement which comprises percolating the isobutylene polymers through activated charcoal, caustic neutralizing the percolated polymers and distilling the neutralized polymers to obtain the desired dimer and trimer polymers.

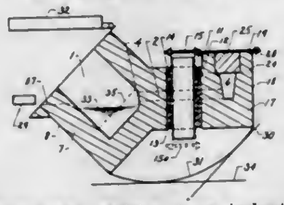
ELECTRICAL

2,641,621

ELECTRIC INDUCTION FURNACE

Albert E. Greene, Evergreen Point, Medina, Wash.

Application February 27, 1950, Serial No. 146,527
5 Claims. (Cl. 13—29)



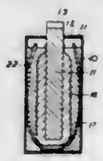
1. A submerged resistor type induction furnace comprising a main chamber for holding molten metal, two substantially straight melting channels connecting the bottom section of the main chamber with a lower submerged chamber of slightly larger cross section than the tubes, said straight channels being inclined at an angle to permit the introduction of a cleaning tool thru them from the upper part of the main chamber above the level of the molten metal, and a transformer assembly threading the secondary loop formed by the melting channels.

2,641,622

ELECTRIC PRIMARY CELL

William F. Higgins and Robert Geoffrey Wilkinson, Clifton Junction, near Manchester, England, assignors to Magnesium Elektron Limited, Clifton Junction, near Manchester, England

Application April 25, 1952, Serial No. 284,264
In Great Britain April 27, 1951
8 Claims. (Cl. 136—120)



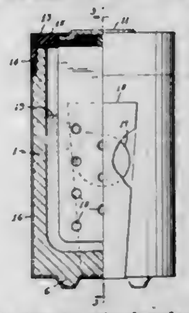
1. An electric dry cell having a consumable metal anode, a cathode, an electrolyte, and a sacrificial anode made of a metal or alloy more electropositive than the said metal anode, the sacrificial anode allowing the metal anode to be consumed during normal use of the cell but minimising the corrosion of the metal anode during periods when the cell is not in use.

2,641,623

PRIMARY BATTERY CELL

Gunnar A. F. Winckler, Milford, and Otto K. Reinhardt, West Haven, Conn., assignors to Olin Industries, Inc.

Application June 16, 1949, Serial No. 99,448
9 Claims. (Cl. 136—12)



2. A cathode for an air-depolarized cell comprising a substantially dry, porous cup formed of a molded mixture of an air-depolarized cathode material and a water-repellent binder, the amount of the binder in the molded mixture being such that the cup is air-permeable but is impermeable to electrolyte, said cup being adapted to form a container for a metal anode and an electrolyte solution.

2,641,624

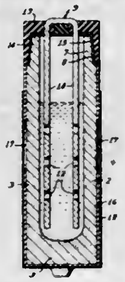
CELL

Gunnar A. F. Winckler, Milford, and Otto K. Reinhardt, West Haven, Conn., assignors to Olin Industries, Inc.

Original application June 16, 1949, Serial No. 99,448. Divided and this application June 16, 1950, Serial No. 168,478
2 Claims. (Cl. 136—125)

2. A cell element comprising a U-shaped strip of metal, the two legs of which are adapted to

form the anode of a cell, the metal strip being headed at the loop to provide an anchorage flange and a terminal portion, and a cap of molded plastic material, the strip of metal being



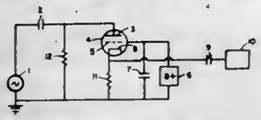
molded into the cap at the loop of the U with the anchorage flange embedded wholly within the cap and the terminal portion exposed at the outer side of the cap, the plastic cap being adapted to form the closure of a cell.

2,641,625
BATTERY CONTAINER
William B. Elmer, Lakewood, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application February 25, 1946, Serial No. 650,051
6 Claims. (Cl. 136—166)



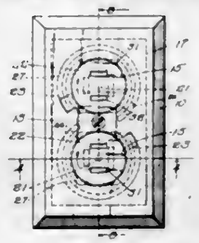
1. A container for an electric battery, comprising a casing of sheet metal for receiving battery electrodes and electrolyte and being open at one end in unassembled condition of the container, said casing having an inner annular ledge axially spaced from the casing edge at said end, a gasket disposed on said ledge, a metal plate contacting said gasket for covering said casing end and having an annular peripheral portion extending away from said gasket in juxtaposition to and surrounded by said casing, and a seal joining said casing and said portion of said cover near and along their respective edges.

2,641,626
ATTENUATING VACUUM TUBE VOLTMETER
David Gurevics, New York, N. Y., assignor to Freed Transformer Company, Inc., a corporation of New York
Application September 4, 1948, Serial No. 47,781
2 Claims. (Cl. 171—95)



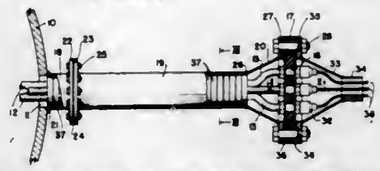
1. In a voltage metering circuit adapted to measure a relatively high A. C. voltage across a variable condenser connected in a series resonant circuit of relatively high Q, a tube volt meter, a source of high D. C. potential, a vacuum tube arrangement including an anode type electrode coupled to said condenser, a cathode type output electrode coupled to said tube volt meter; and a grid type electrode coupled to said D. C. source at the positive terminal thereof; the negative terminal being resistance coupled to said anode type and cathode type electrodes respectively.

2,641,627
SAFETY COVER PLATE FOR FLUSH TYPE ELECTRIC WALL RECEPTACLES
David C. Lewis, Chicago, Ill.
Application June 13, 1952, Serial No. 293,233
7 Claims. (Cl. 174—67)



1. A safety cover plate for attachment to a flush type electric wall receptacle having a socket with spaced slots, comprising: a face plate; a thin base plate of dielectric material secured to the face plate, said base plate having a relatively thick portion which has an arcuate edge defining a socket-receiving recess to receive the end of a socket in said receptacle, said base plate having spaced slots therein to be registered with the slots in the socket; an arcuate spring-receiving channel in the other side of the base plate and formed in said thick portion; a disc-receiving recess formed in said other side of the base plate and surrounded by the channel, said disc-receiving recess being in register with the socket-receiving recess, whereby only a very thin plate portion overlies the socket; an integral boss formed at the center of said disc-receiving recess; a thin disc of dielectric material having a center recess by which it is rotatably positioned on said boss in said disc-receiving recess, said disc having spaced slots therein adapted to be aligned with the slots in the base plate; and a spring in the channel bearing upon the disc to urge said disc to rotate toward a position disaligning said slots.

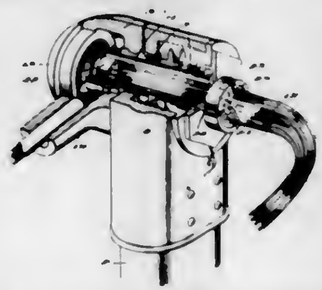
2,641,628
POTHEAD
James O. Jackson, Crafton, Pa., assignor to Pittsburgh-Des Moines Company, a corporation of Pennsylvania
Application April 5, 1948, Serial No. 18,882
8 Claims. (Cl. 174—75)



1. In a device for transmitting electric current to the interior of a hollow structure adapt-

ed to operate at elevated temperatures and in combination with such a hollow structure, multiple spaced bare electrical conductors which are subjected to such elevated temperatures and extend outwardly from the interior of such hollow structure through and beyond an opening in one of its walls and which throughout the major part of their length beyond such wall are straight and parallel and have their outer ends spread apart; a diaphragm through which such spread apart ends extend, a metallic conduit comprising a straight portion, which surrounds and parallels the straight portions of such conductors, and a flaring outer end portion, which surrounds and is spaced from the spread apart ends of such conductors and connects with an outer peripheral portion of such diaphragm, and multiple disks of electrically insulating and heat conducting material having substantially flat parallel ends and being provided with through openings for said electrical conductors which are located on the straight parallel portions of such conductors, contact the inner surface of the straight portion of such conduit, and substantially fill such straight portion so that a relatively large drop in temperature occurs in the electrical conductors between the point at which each passes through the opening in the wall of the hollow structure and the point at which each enters such diaphragm.

2,641,629
CONTROL WHEEL AND WIRING
James H. Bennett, Jr., Towson, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application January 25, 1950, Serial No. 140,410
5 Claims. (Cl. 174—86)



1. In a control wheel assembly including a support, a control wheel having a hub mounted on said support for limited oscillation relative thereto about a predetermined axis, a plurality of electrical devices carried by said wheel, and a plurality of electric leads for said devices carried by said support and extending to said devices; means for supporting said leads comprising a spacer element rigidly carried by said support adjacent said axis, and a second spacer element spaced axialy from said first spacer element and rigidly supported by said hub, each of said spacer elements being provided with a plurality of spaced holes extending therethrough substantially parallel to said axis, one for each of said plurality of leads, said leads extending from said support, through the holes in said first spacer, then through the corresponding holes in said second spacer and thence to said devices, said leads, when said wheel is in neutral position, being spaced from one another and extending substantially parallel to said axis between said spacers, and one of said spacers being adapted to resiliently oppose axial movement of said leads during rotation of said control wheel from its neutral position.

2,641,630
HIGH-VOLTAGE MULTIPLIER PROBE
Gerald N. Goldberger, Flushing, and Victor I. Robinson, Far Rockaway, N. Y., assignors to Precision Apparatus Co., Inc., Elmhurst, N. Y., a corporation of New York
Application January 6, 1949, Serial No. 69,472
20 Claims. (Cl. 175—183)



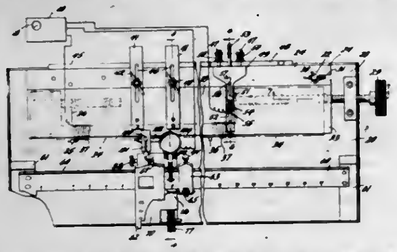
5. A high voltage multiplier probe comprising a head made of high voltage insulation, a hollow handle made of synthetic resin, an insulation barrier between said head and said handle, said head having a tubular sleeve of reduced diameter extending rearwardly therefrom and received within said handle, a grounded flashover shield made of tubular metal disposed between the sleeve and the handle, a metal tip on said head, and a resistor cartridge received and protectively housed within said head and sleeve, the rear end of the handle receiving a shielded cable, the inner end of the cable being connected to a center contact, the metal sheath or shield of said cable being connected to a stationary metal ring electrically connected by means of a compression spring to an axially slidable metal ring having a diameter such as to bear against the rear end of the flashover shield, said cartridge bearing against a second compression spring at one end, the arrangement being such that when the head is assembled with the handle the cartridge is yieldably connected to the center contact of the cable, and the shield is independently yieldably connected to the shield of the cable.

6. A high voltage multiplier probe comprising a head and sleeve made of the same high voltage insulation and contiguous in end to end relation, a hollow handle made of synthetic resin, said sleeve being a tubular sleeve of reduced diameter extending rearwardly directly from the head for approximately the length of the handle and being received within said handle, a metal tip on said head, and a resistor cartridge received and protectively housed within said sleeve and electrically connected to said tip, whereby a hand holding the probe is protected from the cartridge by both the sleeve and the handle.

2,641,631
FIXTURE FOR TESTING CARD POTENTIOMETERS
Vidal Ducasse, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 3, 1951, Serial No. 204,212
12 Claims. (Cl. 175—183)

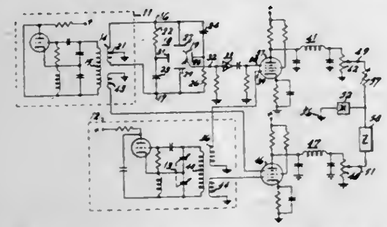
1. A card potentiometer testing fixture comprising a base, a flat potentiometer card supporting plate movably mounted to the base, means for moving the plate relative to the base, a calibrated bar secured to the base, a calibrated means slidably mounted on the bar for indicating the position of the calibrated means with respect to

the bar, and means secured to the calibrated means and movable on the base for making elec-



trical contact with the winding of the potentiometer card.

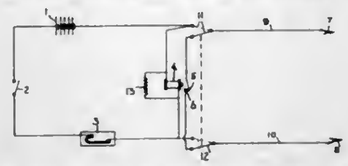
2,641,632
IMPEDANCE MEASURING INSTRUMENT
George R. Gamertsfelder, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application April 3, 1951, Serial No. 218,980
8 Claims. (Cl. 175—183)



4. An impedance measuring instrument comprising, first and second oscillation generators, a first modulator, circuit means for impressing signals generated by each of said first and second oscillation generators on said first modulator whereby a beat frequency signal is obtained, a second modulator, means for impressing a signal generated by one of said oscillation generators on said second modulator, means for phase shifting a signal generated by the other of said oscillation generators, circuit means for impressing said phase shifted signal on said second modulator, output circuits for said first and second modulators forming one branch of a four arm bridge circuit, the remaining arms of which consist of an adjustable calibrated impedance and an impedance whose magnitude is unknown, and a null indicator connected between the juncture of said modulator output circuits and the juncture of said adjustable and unknown impedance.

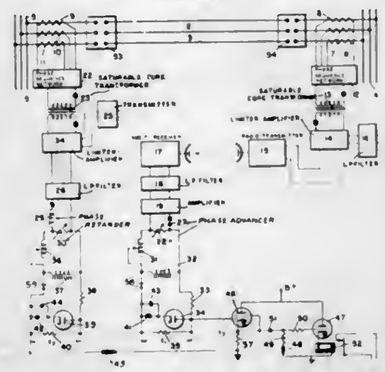
2,641,633
WIRE TRACER
Harry W. Hosford, Jr., Shaker Heights, Ohio
Application March 2, 1949, Serial No. 79,172
1 Claim. (Cl. 175—183)

An electric circuit tester adapted to be used in conjunction with a receiver such as an earphone or the like, comprising a portable housing, a first electric circuit in said housing including in series a source of direct current, a manually closable normally open switch, and a current responsive thermostatic interrupter; a second electric circuit in said housing including a relay winding and a high resistance shunt connected across said winding; a third electric circuit in said housing including normally open switch contacts adapted to be actuated in response to energization of said winding; two manually operable selector switches likewise located in said housing each comprising a pair of contacts and a contact making element selectively movable into engagement therewith, said first and second electric circuits being connected in parallel to one pair of corresponding contacts of said switches and said third electric circuit being connected across the other pair of



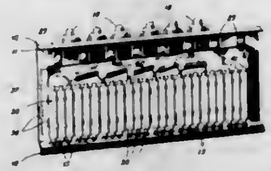
corresponding switch contacts; a test lead connected to each such switch element and extending from said housing; such test leads being provided with connector means at the respective free ends thereof for connection to the circuit to be tested; and means mechanically connecting such switch elements for simultaneous movement, whereby said selector switches in one position will connect such leads to said first and second electric circuits and in another position to said third electric circuit.

2,641,634
PHASE COMPARISON ELECTRONIC RELAY PROTECTIVE SYSTEM
Donald J. Marihart, Carnation, Wash.
Application June 29, 1950, Serial No. 171,172
4 Claims. (Cl. 175—294)
(Granted under Title 35, U. S. Code (1952), sec. 266)



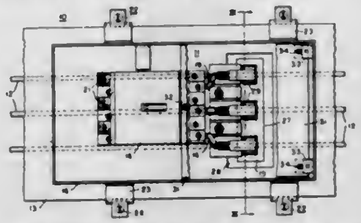
1. In a protective relay system for an electric power transmission line, the combination of means for deriving, at one end of a line, two single-phase voltages, respectively indicative of the phase of the phase-sequence currents at the two ends of the line, means for deriving from each of said two voltages a sequence of flat-topped electrical pulses of like polarity and each of approximately 140° electrical length, which, under normal line conditions, are non-concurrent, but which under fault conditions in said line become concurrent and productive of a voltage which is the sum of the voltages of the two pulses, a grid-controlled gaseous discharge tube and means for supplying to the grid thereof a negative bias voltage, and means for opposing said bias voltage with the voltage of said pulses, said tube firing when said pulses become concurrent.

2,641,635
SUBMINIATURE ELECTRON TUBE CIRCUIT STRUCTURE
Robert K-F Seal, Englewood, N. J., and Clinton O. Lindseth, Silva, N. Dak., assignors to the United States of America as represented by the Secretary of the Navy
Application February 29, 1952, Serial No. 274,270
6 Claims. (Cl. 175—298)
(Granted under Title 35, U. S. Code (1952), sec. 266)



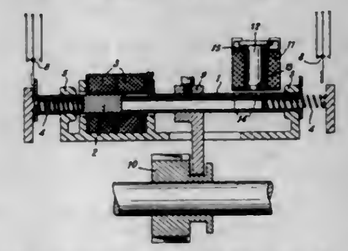
1. A chassis structure for a multitube subminiature circuit array comprising: a conductive panel having two parallel rows of spaced spring fingers, two elongate strips, the fingers of each row removably engaging a different one of these strips, a plurality of subminiature tube shields fastened in linear parallel alignment transverse to both strips and having their longitudinal axis parallel to the plane of the panel, whereby these shields may be quickly detached from the panel as a unit.

2,641,636
BUS DUCT AND PLUG-IN UNIT
William F. Born and Joseph C. Langaunet, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 10, 1949, Serial No. 132,348
4 Claims. (Cl. 175—307)



1. The combination with a bus duct housing having an opening therein providing access to bus bars within the housing, of a plug-in unit comprising a metal housing having an openable cover on the front thereof and an opening through the back thereof with stab connectors extending through the opening in the back of the housing for engaging the bus bars, edges of the opening in the back of the plug-in unit housing being spaced from the stab connectors to provide an opening substantially larger than the cross-sectional area of the stab connectors, thereby affording a view of the outer ends of the connectors when looking into the housing and through the opening in the back thereof, a barrier disposed within the plug-in unit housing beneath the cover thereof, said barrier extending across the stab connectors to protect the inner ends of the connectors when the cover of the housing is open, and said barrier being composed of transparent material and disposed over the opening in the plug-in unit housing to make the stab connectors and the bus bars visible through the barrier and the openings in the plug-in unit housing and the bus duct housing when said openings are substantially aligned.

2,641,637
REMOTE CONTROL DEVICE FOR MULTIPLE-SPEED GEAR BOXES
François d'Ozouville, Paris, France, assignor to Siper S. A., Emsallah, Tangier, a corporation of the Tangier Zone
Application March 13, 1950, Serial No. 149,364
In Switzerland March 29, 1949
11 Claims. (Cl. 175—335)

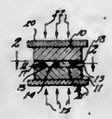


1. An operating arrangement for a device e. g., a gear adapted to be moved into and out of operative position by a sliding member comprising, in combination, an operating member; means for slidably mounting said operating member between inoperative position and operative position; first electromagnet means associated with said slidable operating member for sliding the same from inoperative position into operative position; a first energizing electric circuit connected to said first electromagnet means for energizing the same for movement of said slidable operating member from inoperative into operative position; blocking means associated with said slidable operating member movable between inoperative position permitting free sliding of said slidable operating member and operative position engaging and blocking said slidable operating member so as to prevent sliding thereof; second electromagnet means associated with said blocking means for moving the same from an inoperative position into operative position; a second energizing electric circuit connected to said second electromagnet means for energizing the same for movement of said blocking means into operative position; and switch means actuated by said slidable operating member when the same reaches its operative position and, upon actuation, connecting said second energizing electric circuit so as to energize said second electromagnet means, moving said blocking means into operative position and thus holding said slidable operating member in its operative position.

2,641,638
LINE-CONTACT TRANSISTOR
Jacques I. Pantchechnikoff, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 27, 1952, Serial No. 278,805
7 Claims. (Cl. 175—366)

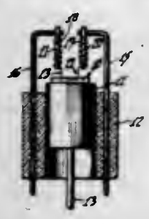
1. A transistor device comprising two bodies of semi-conducting material, each having a discrete surface area, a first filamentary conductor pro-

viding a first electrode in contact with both of said surface areas, a second filamentary conductor providing a second electrode in contact with only one of said surface areas, a third filamentary conductor providing a third electrode in contact with only the other one of said surface



areas, said conductors being disposed substantially parallel and closely adjacent to each other, an additional electrode in low-resistance contact with another surface area of each of said bodies, and means for providing and maintaining intimate contact between said conductors and the respective surface areas of said bodies.

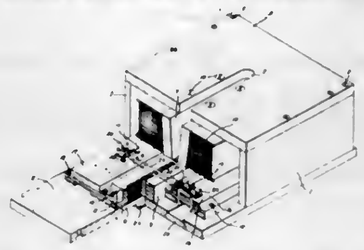
2,641,639
POINT ELECTRODE FOR SEMICONDUCTOR DEVICES
Bernard N. Slade, Morristown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 23, 1949, Serial No. 134,660
4 Claims. (Cl. 175—366)



1. A semi-conductor device comprising a semiconducting body having a substantially plane surface, a metallic film covering said body with the exception of a predetermined area of said plane surface, a pair of mandrels supported above said surface and extending substantially at right angles thereto, and a pair of fine metallic wire compression springs, each surrounding one of said mandrels and having a free end in contact with said predetermined surface area and extending substantially at right angles thereto.

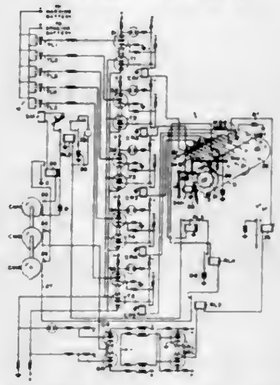
2,641,640
LIGHT VALVE
Charles A. Hisserich, Malcolm C. Henderson, and Kenneth K. Wyckoff, San Diego, Calif., assignors to the United States of America as represented by the Secretary of the Navy
Application August 2, 1944, Serial No. 547,780
16 Claims. (Cl. 175—368)

1. A light valve comprising: a frame; a pair of magnets mounted on said frame with an air gap between their matching poles, said magnets provided with a plurality of aligned apertures for transmitting light through said magnets; a plurality of mechanically resonant electrical conductors positioned in said air gap, each of said conductors resonant at a different frequency; means on said frame for mounting said conductors across corresponding ones of said apertures; means for supplying an alternating signal to said conductors whereby resonate movement of certain of said conductors results in a substantial increase in the intensity of light



transmitted by the corresponding of said apertures.

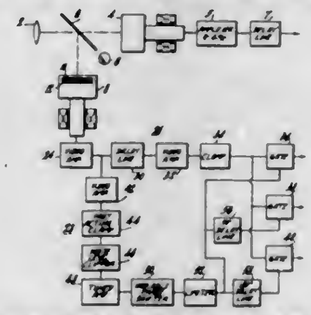
2,641,641
ELECTRONIC CODE TELEGRAPH READING AND REPEATING SYSTEM
William Stanley Westerman Edgar, Jr., New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application February 15, 1949, Serial No. 76,486
17 Claims. (Cl. 178—2)



1. A permutation code reading apparatus comprising an electronic device individual to each impulse of the permutation code, an input circuit and an output circuit for each of said devices, means for applying permutation code signals to said input circuits to operate said devices selectively, individual electronic means coupled in a predetermined manner with the output circuit of each of said devices, means for modifying said manner of coupling in accordance with a predetermined permutation code and means common to each of said individual means and operative only when the permutation code signal applied to said input circuits corresponds to said predetermined permutation code.

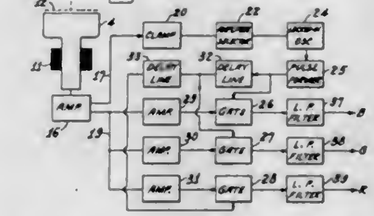
2,641,642
COLOR TELEVISION CAMERA
William L. Behrend, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1951, Serial No. 264,020
6 Claims. (Cl. 178—5.4)

6. A color television camera comprising the combination of a first pick-up tube and a second pick-up tube, said pick-up tubes having electron guns for producing electron beams and apparatus for causing said beams to scan a raster, optical apparatus for focusing a scene to be televised onto each of said pick-up tubes, means for causing the signals generated by said second tube



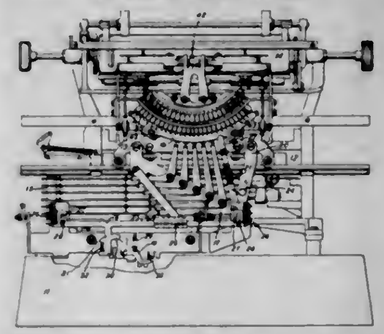
to successively represent the intensity of the different component colors as its beam scans across the raster, a plurality of gating devices connected to the output of said second pick-up tube so as to receive said signals, and means for rendering said gates capable of separating and passing said signals.

2,641,643
COLOR TELEVISION CAMERA
John W. Wentworth, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 1, 1950, Serial No. 198,532
1 Claim. (Cl. 178—5.4)



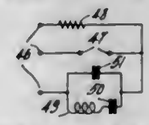
A color television camera comprising in combination a first pick-up tube and a second pick-up tube, said pick-up tubes having means for projecting a beam of electrons and means for causing said electrons to scan a raster, optical apparatus for focusing an image to be televised onto each of said pick-up tubes, means for causing the signals developed by the scanning action of the beam in said second pick-up tube to have an amplitude determined by the intensity of successive sequences of different component colors, means for supplying a signal between at least some of said sequences having an amplitude greater than any one of the signals in the adjacent sequence, a clamping circuit to which said signals are applied, an amplitude selecting circuit connected to the output of said clamping circuit, an oscillator, means for controlling the frequency of said oscillator in response to the output of said amplitude selecting circuit, a plurality of gate circuits adapted to receive said signals, a pulse forming circuit connected to the output of said oscillator and delay lines connected between said pulse forming circuit and each of said gates, the amount of delay being such that the gates are successively conductive in synchronism with the change in the component color represented by successive signals.

2,641,644
PRINTING SUPPRESSION MECHANISM FOR TELETYPEWRITERS
Sidney Warren Beyland, Bellerose, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application April 9, 1951, Serial No. 220,936
13 Claims. (Cl. 178—23)



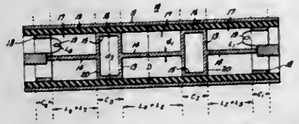
9. In a teletypewriter system having typebars operable for causing received intelligence to be recorded, means responsive to certain teletypewriter signals for preventing all said typebars from becoming effectively operated whereby received intelligence is not recorded in a line of typing, and other means automatically operated at the end of a predetermined interval in said line of typing for releasing the first-mentioned means to resume recording of the received intelligence.

2,641,645
PHASE SHIFTING OR DELAY NETWORK
Maurice Artzt, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 16, 1949, Serial No. 127,742
7 Claims. (Cl. 178—44)



1. A delay network comprising balanced input terminals, one of which also serves as an output terminal, a further separate output terminal, a resistive arm connected between one of said balanced input terminals and said separate output terminal, and a reactive arm connected between said other input terminal and said separate output terminal and comprising at least three reactance elements, two of said elements being one of the two types of inductive and capacitive and the other element being of the other type, said elements being connected in series and parallel relationship to provide at least one parallel and one series resonance.

2,641,646
COAXIAL LINE FILTER STRUCTURE
Henry P. Thomas, Fayetteville, N. Y., assignor to General Electric Company, a corporation of New York
Application August 10, 1949, Serial No. 109,444
3 Claims. (Cl. 178—44)



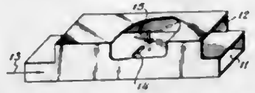
1. A high frequency ladder type filter comprising co-extensive inner and outer conductors, means providing a plurality of axially separated sections of relatively small interconductor spacing within said filter to produce distributed shunt capacitances of predetermined magnitudes, means providing a plurality of axially separated sections of relatively large interconductor spacing within said filter alternating with said first sections to produce distributed series inductances of predetermined magnitudes, a pair of conducting members respectively located at either end of said filter intermediate said inner and outer conductors but out of direct electrically conductive contact therewith, each of said conducting members having an outer peripheral surface in closely spaced relation to the inner peripheral surface of said outer conductor to provide a shunt capacitance therewith, and inductance means connected between said inner conductor and each of said conducting members to provide terminating sections including a shunting series resonant network.

2,641,647
TUNING DEVICE
Gus W. Wallin, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application June 14, 1949, Serial No. 99,064
13 Claims. (Cl. 178—44)



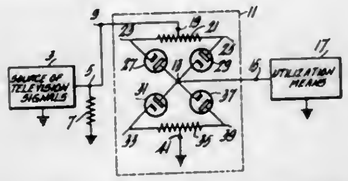
1. A coaxial tuner comprising a cylindrical outer conductor, an inner conductor positioned substantially centrally in said outer conductor and including a portion connected to said outer conductor at one end thereof, a core movable axially into a space between a first portion of said inner conductor and a first portion of said outer conductor at said one end thereof for providing a variable inductance therebetween, a radially expansible collet disposed in the other end of said outer conductor, a layer of compressible dielectric material interposed between said collet and the inner wall of said outer conductor, and an adjusting member cooperating with said collet for expanding the same and compressing said dielectric material to provide a variable capacitance between said collet and said outer conductor, said inner conductor and said collet being electrically connected so that said variable inductance and said variable capacitance are connected in parallel.

2,641,648
DIRECTIONAL COUPLER
Samuel Sensiper, Cambridge, Mass., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application January 25, 1949, Serial No. 72,591
3 Claims. (Cl. 178—44)



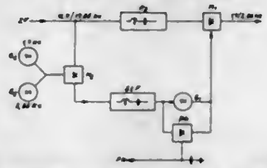
1. A wide band directional coupler including a pair of hollow tube wave guides, said wave guides extending in parallel adjacent relationship with a common side between, and a probe extending through the common side and projecting partly into the interior of each of the wave guides for coupling the electric fields, the common side having a longitudinal slot therethrough coupling the magnetic fields, the maximum dimension of the slot being perpendicular to the longitudinal axis of each of the wave guides, the slot and probe being positioned adjacent each other and centered in the same transverse plane relative to the longitudinal axes of the wave guides.

2,641,649
WAVE SHAPING CIRCUIT
Robert H. Pierce, Palatine, Ill., assignor to Radio Corporation of America, a corporation of Delaware
Application June 26, 1951, Serial No. 233,594
6 Claims. (Cl. 178—44)



1. An electrical control circuit comprising four conduction devices each having a direction of greater conductivity, means connecting said four conduction devices to a common point in such a way that the directions of greater conductivity of a first and a second of said conduction devices are towards said common point and that the directions of greater conductivity of a third and a fourth of said conduction devices are away from said common point, an impedance connected between the terminal of said first and third conduction devices not connected to said common point, an impedance connected between the terminal of said second and fourth conduction devices not connected to said common point, a signal input circuit located between two points on each of said impedances, and a signal output circuit located between said common point and one of said points on said impedances.

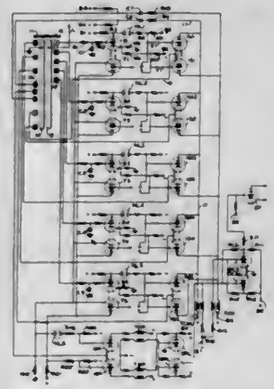
2,641,650
FREQUENCY CONTROL FOR TELEGRAPH RECEIVERS
Dieter Leypold and Hans Rudolph, Munich, and Heinz Jürgens, Munich-Solln, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Munich, Germany, a corporation of Germany
Application October 5, 1950, Serial No. 188,628
In Germany May 13, 1949
7 Claims. (Cl. 178—69)



1. In a telegraph receiver circuit coacting with a frequency-keyed transmitter and having an incoming signal-receiving branch which modulates the incoming marker and spacing signal frequencies to form intermediate frequencies; a line for receiving said intermediate frequencies, a single auxiliary modulator connected with said line for directly receiving therefrom the intermediate frequencies corresponding to said marker and to said spacing signals, respectively, oscillator means coacting with said auxiliary modulator to produce a plurality of carrier frequencies therefor which cause said auxiliary modulator to place said marker and spacer intermediate frequencies in an identical frequency range, a control frequency filter connected with the output of said modulator for receiving the frequencies produced thereby, said control frequency filter being operative to filter out the two frequencies corresponding to said marker and spacing signals, respectively, and discriminating means connected with the output of said control frequency filter for adjusting the modulation of the incoming signal frequencies in said incoming signal-receiving circuit branch.

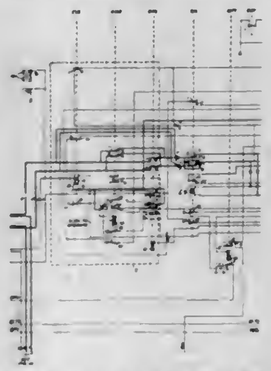
2,641,651
ELECTRONIC CODE TELEGRAPH READING AND REPEATING SYSTEM
William Stanley Westerman Edgar, Jr., New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Original application February 15, 1949, Serial No. 76,486. Divided and this application January 12, 1951, Serial No. 205,659
14 Claims. (Cl. 178—70)

6. Apparatus for repeating permutation code telegraph signal impulses from an incoming circuit, comprising a plurality of receiving electron discharge tubes each having an input circuit intercoupling the grid and cathode electrodes of the respective receiving tubes and an output circuit intercoupling the anode and cathode electrodes of the respective receiving tubes, a distributor for applying the signal impulses received over said incoming circuit selectively to the input circuits of said receiving tubes thereby selectively to render said receiving tubes conductive and non-conductive in accordance with the polarity of said signal impulses, a plurality of pairs of selector electron discharge tubes each having an input circuit and a normally open output circuit, a first plurality of voltage divider networks each intercoupling the input circuit of one of the tubes in each of said pairs of selector tubes and the anode electrodes of the respective receiving tubes thereby to place said one tube in each of said pairs in conductive condition solely when a negative impulse is applied to the input circuit of the corresponding receiving tubes, a second plurality of voltage divider networks each intercoupling the input circuits of the other tubes in each of said pairs of selector tubes and the cathode electrodes of the respective receiving tubes thereby to place said other tube in each of said pairs in conductive condition solely when a



positive impulse is applied to the input circuit of the corresponding receiving tube, means for completing the output circuits of each pair of selector tubes in sequential order, signal repeating means associated with the output circuits of said selector tubes and selectively responsive to the operation of said pairs of selector tubes, and means to derive from said repeating means a permutation code telegraph signal corresponding to said received signal impulses.

2,641,652
REVERTIVE CALL CIRCUITS
Frank A. Morris, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Original application April 23, 1947, Serial No. 743,415. Divided and this application June 21, 1949, Serial No. 100,373
3 Claims. (Cl. 178—17)



1. In a telephone system, a plurality of multiparty lines, each line having a calling sleeve con-

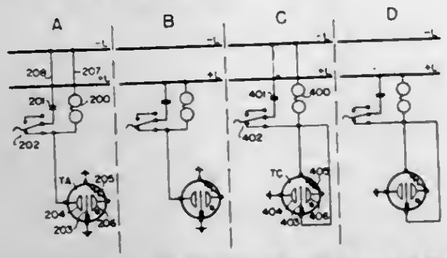
ductor and a called sleeve conductor, means including a plurality of link circuits for inter-connecting said lines, means for making a calling line busy to incoming calls from other lines, means in one of said link circuits for detecting the idle or busy condition of a called line upon the selection of said called line, a discriminating relay individual to said one link circuit and having an operating winding, means including the calling sleeve conductor of a calling line for operating said discriminating relay by energizing said operating winding in response to the selection of an idle called line, means including both of said sleeve conductors for shunting said operating winding of said discriminating relay and thereby preventing its operation when the calling and called line is one and the same, and means controlled by said discriminating relay for revertively signalling stations on said calling and called line.

2,641,653

RINGEB CIRCUIT USING COLD CATHODE TUBE

Harold C. Pye, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application April 5, 1950, Serial No. 154,107
9 Claims. (Cl. 179—86)



1. In a telephone system, a line having a source of energy intermittently connected thereto, a tuned circuit comprising a condenser and the coil of a ringer included in a parallel connection with each other to thereby form an oscillating circuit and said tuned circuit also being connected in a series circuit including a portion of said line, said source and ground, and means connected in said series circuit for causing the intermittent connection of said energy source thereto to sustain oscillations of said tuned circuit, thereby operating said ringer.

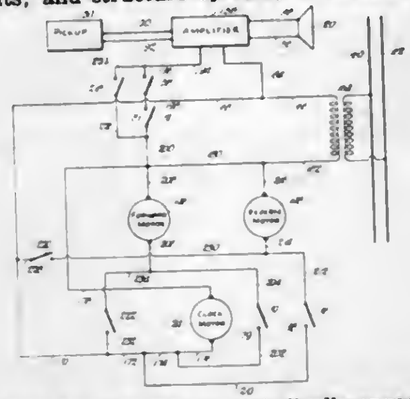
2,641,654

COMBINATION CHRONOMETER AND SOUND REPRODUCING INSTRUMENT

John T. Offutt, Parkville, Mo., assignor of one-fourth to Raymond W. Gregg, Parkville, Mo.

Application May 31, 1949, Serial No. 96,357
9 Claims. (Cl. 179—100.1)

1. In apparatus having a constant speed rotatable shaft, and a sound reproducer including a movable sound track, electrical means for advancing said sound track, a first electrical circuit for said electrical means, a pick-up responsive to the moving sound track for generating electrical voltages, an amplifier coupled with said pick-up for converting said voltages to audio-frequency signals, and a second electrical circuit for said amplifier, the improvement of which comprises a normally open switch in each of said circuits respectively; mechanism operably connected with the shaft and disposed to periodically engage the switches for a predetermined period of time as the shaft rotates to close the switches for said period of time; a circuit breaker in one of said circuits; and structure operably connected with



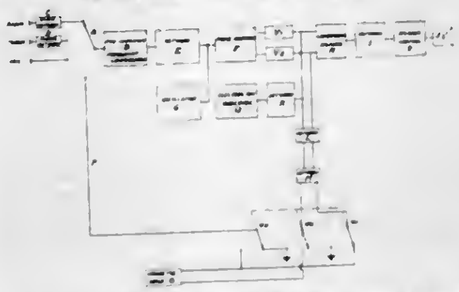
the shaft and disposed to periodically engage the circuit breaker to alternately open and close the latter.

2,641,655

MAGNETIC RECORDING AND REPRODUCING CIRCUITS

Lloyd J. Bobb, Glenside, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 24, 1947, Serial No. 787,644
19 Claims. (Cl. 179—100.2)



1. A magnetic recording system comprising in combination with a source of signal voltage to be recorded, a source of alternating polarizing voltage of frequency substantially higher than the highest signal component, a power amplifier simultaneously driven by both of said sources, a magnetic recording head having a single winding energized by both signal and polarizing currents developed by said amplifier, and circuit connections between the output of said power amplifier and said head for delivering the output of the amplifier to the head and having means to selectively attenuate said signal voltage.

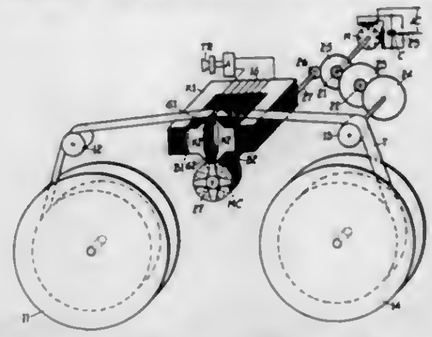
2,641,656

SOUND RECORDING AND REPRODUCING APPARATUS

Robert H. Dicke, Princeton, N. J.

Application May 17, 1950, Serial No. 162,479
22 Claims. (Cl. 179—100.2)

1. The method of recording and reproducing sound which consists in converting sound vibrations into electromagnetic density oscillations, in resolving these magnetic density oscillations into a plurality of separate magnetic path components, in beating each magnetic path component with a frequency related frequency in a manner so as to create comparative low beat frequencies some of which characterize a direction of phase rotation, in magnetically recording these beat frequencies each for its specific duration on a magnetizable record tape, in reproducing these magnetic beat frequencies, and in again beating them at the same frequencies and relative phase as the



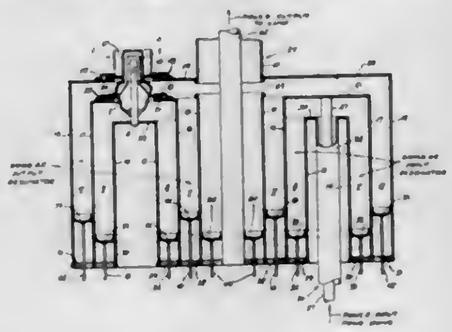
original magnetic path components from which they were created were beat so as to reproduce the aforementioned various frequency components, and in converting the last mentioned frequency components into sound.

2,641,657

RADIO-FREQUENCY TRANSMISSION DEVICE

Donald H. Preist, Tiburon, and Byron O. Ballou, San Bruno, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California

Application April 18, 1949, Serial No. 88,182
2 Claims. (Cl. 179—171)



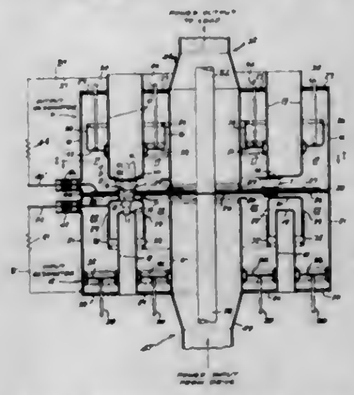
1. A radio-frequency transmission device comprising a plurality of electron tube units disposed in a circle about an axis and each having electrodes including an anode and cathode, an output cavity resonator common to the tube units and having two communicating, axially extending, annular cavity sections, the output resonator being coaxial with said circle and having a conductor connected to an anode of each of the tube units, an input cavity resonator common to the tube units and having two communicating, axially extending, annular cavity sections, the input resonator being coaxial with said circle and having a conductor connected to a cathode of each of said tube units, the axial dimension of each cavity being substantially greater than the radial dimension thereof, an output transmission line coaxial with said circle and coupled to the output resonator, a tuning stub coaxial with said circle and forming an extension of the output line, and an input transmission line spaced from said axis and coupled to the input resonator.

2,641,658

RADIO-FREQUENCY GENERATOR

Donald H. Preist, Mill Valley, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California

Application December 8, 1950, Serial No. 199,825
7 Claims. (Cl. 179—171)



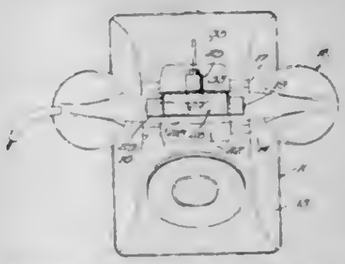
1. A radio-frequency generator comprising a plurality of tetrodes disposed in a circle about an axis and each having an anode and screen grid and control grid and cathode, output and input resonators each comprising an annular cavity extending axially of said circle and having inner and outer conductors, the axial dimension of said resonator being substantially greater than the radial dimension thereof, the anode of each tetrode being electrically connected to the inner conductor of the output resonator and the cathode of each tetrode being electrically connected to the inner conductor of the input resonator, means coupling the screen grid of each tetrode to the outer conductors of the resonators, and an annular hollow conductor extending axially of the input resonator and encircling the inner conductor thereof, said hollow conductor being open at one end and electrically connected to the control grid of each tetrode at the other end.

2,641,659

TELEPHONE LOCK

Archie M. Benson, North Hollywood, Calif.

Application January 23, 1952, Serial No. 267,733
2 Claims. (Cl. 179—189)



1. An article of manufacture, in a telephone lock adapted for use with a telephone of the removable hand set type including a cradle portion having depressible plungers mounted therein, a hand set portion for seating on said cradle portion, a carrying recess opening rearwardly centrally beneath the cradle portion, and a downwardly depending rib extending across the rear

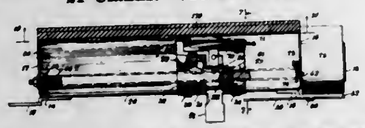
margin of said recess; a locking bracket comprising a body portion, a pair of flange portions offset from the plane of said body portion and extending laterally from the transverse margins of said body portion, and a mounting flange depending from one longitudinal edge of said body portion, and a lock member extending through said mounting flange and rigidly fixed thereto and having a locking arm extending beneath said body portion to interlock with the rib of the carrying recess to retain the lock assembled with the telephone with the lateral flanges overlying and depressing the cylindrical plungers of the telephone and the mounting flange overlying the carrying recess.

2,641,660
DISTRIBUTOR STABILIZER
James A. McKenna, San Francisco, Calif.
Application August 17, 1951, Serial No. 242,334
5 Claims. (Cl. 200—19)



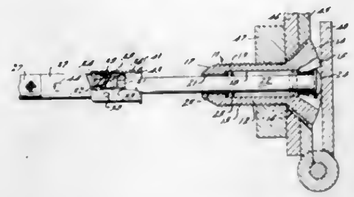
1. In a distributor for an internal combustion engine including a housing having cylindrical walls and a movable circuit breaker support plate mounted in said housing for oscillatory movement about the axis of the latter and including a fixed plate secured to said housing transversely of said axis and slidably supporting said movable plate, a device for preventing tilting of said movable plate with respect to said fixed plate comprising: a support adapted to be secured to said fixed plate adjacent its periphery and a bearing element carried by said support and adapted to engage a portion of said movable plate adjacent its periphery and on the side of the latter opposite said fixed plate for preventing tilting of said portion away from said fixed plate.

2,641,661
LATERAL TIMER SWITCH
George O. Puerner, Robert J. Aust, and Leonard Tulauskas, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application November 1, 1951, Serial No. 254,424
21 Claims. (Cl. 200—33)



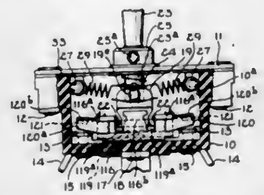
2. A control device for sequentially actuating a series of electrical circuits comprising plural contact means for closing and opening said electrical circuits, said plural contact means adapted to be moved together in a straight line direction, fixed terminal means cooperating with said plural contact means for opening and closing said electrical circuits situated adjacent thereto, wiper means connecting said plural contact means to said terminals while said plural contact means are moving in a straight line direction, said wiper means movable concurrently with said contact means, and means for driving said contact means along said direction so that a series of electrical circuits may be completed in accordance with a determined pattern as said contacts move.

2,641,662
COMBINED SWITCH AND FASTENER
John W. Lilley, Ferndale, Mich., assignor of fifty-five per cent to Michael J. Basso, Detroit, Mich.
Application May 22, 1951, Serial No. 227,640
27 Claims. (Cl. 200—54)



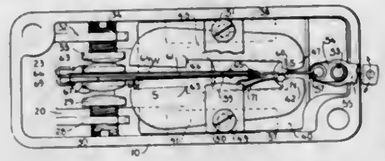
1. In combination, a rotatably applied fastener having a shank portion, a plunger within said shank portion, the head of said plunger being movable between a position extending outwardly from said shank portion and a position retracted within said shank portion, an electrical contact movable by said plunger during movement of the latter between its said positions, and a second electrical contact engageable by said first contact during said movement, the two contacts being in engagement when the plunger is in one of its said positions and in spaced relation when the plunger is in its other position.

2,641,663
ELECTRIC SWITCH
Alvin W. Krieger, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 28, 1949, Serial No. 107,223
7 Claims. (Cl. 200—67)



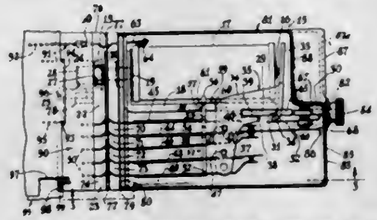
1. A multi-position snap acting switch adapted to selectively control a plurality of electric circuits comprising, in combination, a pair of cooperating contacts for each electric circuit controlled, a rocking element having a plurality of pivotal points and carrying at each of its ends one contact of each of said pairs of contacts, snap acting means for oscillating said element alternately about one or the other of its pivotal points, said means comprising a toggle member having selective pivotal points and a pair of over-center springs individually connected between opposite ends of said element and said toggle member for selective movement of one or the other of said contact carrying ends of said element into and out of engagement with its cooperating contact in response to reverse movements of said toggle member about its pivotal points selectively, said over-center springs biasing the respective ends of said element in opposite directions upon engagement of any of said pairs of contacts.

2,641,664
SWITCH
James B. Knutson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 18, 1948, Serial No. 49,916
6 Claims. (Cl. 200—67)



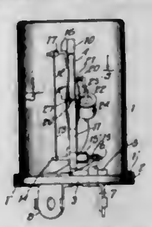
2. In a snap switch, means forming a plurality of magnetic poles, an armature having a first portion movable selectively toward and away from each of a spaced pair of said poles of opposite polarity, said armature having a second portion movable selectively toward and away from each of a second spaced pair of poles of opposite polarity, a pivotal support for said armature adjacent the first portion thereof, actuating means for moving said support to move the first portion of said armature with respect to said first pair of poles, and means including a pair of contacts for limiting the ratio of possible movement of the second portion of said armature to the length of the air gap between the second pair of poles to a value less than the ratio of movement of the first portion of the armature to the length of the air gap between the first pair of poles, said limiting means restricting movement of the second portion of said armature to a range substantially midway between the second pair of poles.

2,641,665
ELECTROMAGNETIC RELAY ARMATURE MOUNTING AND BIASING
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 21, 1946, Serial No. 698,488
3 Claims. (Cl. 200—87)



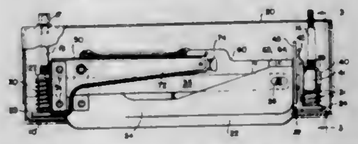
1. In an electromagnetic relay having contact springs, a plate-like armature extending over a pole of the electromagnet of said relay and operatively associated with said springs, said armature having as its fulcrum end two extending side lugs bent out of plane of said armature and forming a slot therebetween, a fixed member having a board portion providing fulcrums at its edge to engage said lugs and a central extension carried by said member fitted within said slot, and spring means adjustably attached to said extension and extending substantially in parallelism therewith, said spring means bearing directly against said lugs to urge said armature against said fulcrums and away from the pole of the electromagnet, whereby to impart a predetermined spring tension to said armature, independent of the tension exerted thereagainst by said contact springs.

2,641,666
VANE TYPE THERMAL SWITCH
Philip Sitser, Irvington, N. J., assignor to Tung-Sol Electric Inc., a corporation of Delaware
Continuation of application Serial No. 496,187, July 26, 1943. This application January 11, 1949, Serial No. 70,285
4 Claims. (Cl. 200—113)



1. A thermal switch comprising a frame, a fixed contact, a flat spring fastened at one end to the frame and carrying a contact at the free end thereof positioned for engagement with said fixed contact when the spring is moved against the bias thereof, a buckling vane having its ends fastened against the frame in a constrained position to cause a portion thereof to snap from one position to another when operated, thermal responsive means for actuating the buckling vane, and means coupling said portion of the vane with said spring at a point between the ends thereof for imparting to the free end of said spring positive movement to close the contacts in response to movement of said portion of the buckling vane which is substantially greater than that of said vane portion and imparting a wiping movement to the spring carried contact upon engagement and disengagement with the fixed contact.

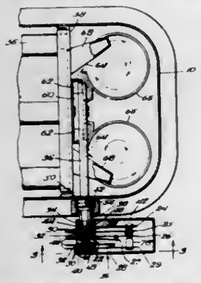
2,641,667
SURFACE THERMOSTAT
Paul F. Shivers, Edina, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 23, 1950, Serial No. 145,773
10 Claims. (Cl. 200—137)



7. In a thermostat responsive to the temperature of a surface, an expansible element including a portion having an elongated recess adapted to engage a cylindrical surface, a non-expansible element and a switch carried by said expansible element, a switch actuator interconnecting said elements and said switch, a frame surrounding said expansible element and having an opening in the surface engaging portion thereof to receive the surface engaging portion of said expansible element, said surface engaging portion of said frame being shaped to engage the cylindrical surface to assure alignment of said recess in said expansible element with a longitudinal

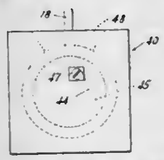
element of the cylindrical surface, and spring means acting between said expansible element and said frame biasing said portion of said expansible element to a position extending through the opening in said frame.

2,641,668
THERMAL SWITCH
Michael J. Larocco, Berkeley, Calif., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application August 3, 1949, Serial No. 108,283
9 Claims. (Cl. 200—138)



1. An electric switch of the thermal type comprising a one-piece ceramic base having two parallel leg portions and a transverse portion extending between said leg portions, a stack of aligned leaf members having portions thereof disposed between the leg portions of said base, at least one of said leaf members being a bimetallic heat-responsive member, and the other leaf members being resilient contact members arranged for actuation by said heat-responsive member as the temperature thereof varies, insulating members interspersed with the contact members in said stack, a heat-conducting rod extending through said stack and said transverse portion of said base, said bimetallic member being in heat-conductive relationship to said rod and moving in response to the heat derived therefrom, said rod having a shoulder portion disposed on one side of said stack and a threaded end portion protruding from the other side of said stack, and a nut threaded on said end portion for securing said stack to said transverse portion, with the leg portions of said base preventing said leaf members from turning relative to said rod.

2,641,669
ELECTRIC SWITCH
Mannes N. Glickman, Nutley, N. J.
Original application August 31, 1948, Serial No. 47,050, now Patent No. 2,597,080, dated May 20, 1952. Divided and this application December 15, 1951, Serial No. 261,808
7 Claims. (Cl. 200—152)



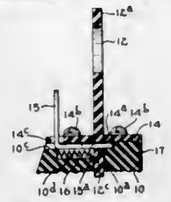
1. A switch comprising a housing including a pair of opposed walls, opposed facing contact means on said walls, a rotatable circuit closer located between said contact means and including terminals respectively associated with each of said contact means, each pair of associated contact means and terminals having relative slidable engagement in a predetermined arcuate path.

2,641,670
SERRATED CONTACT
Herbert C. Graves, Jr., Wilkinsburg, Pa., assignor to Gibson Electric Company, Pittsburgh, Pa., a corporation
Application August 22, 1950, Serial No. 180,756
9 Claims. (Cl. 200—166)
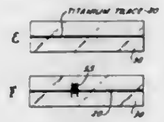


1. In an electrical circuit breaker having a contact carrying arm, an electrical contact mounted on said arm, said contact being made of suitable electrical conducting metals, said contact having any desirable shape and containing serrations on one face, said serrations consisting of circular concentric rings, said rings consisting of hills forming valleys isolated from each other, said valleys being partially filled with another contact material of a lower melting point than the material of said first mentioned contact.

2,641,671
ELECTRIC SWITCH
Martin F. Koenig, Milwaukee, and Ralph A. Millermaster, Whitefish Bay, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 27, 1949, Serial No. 135,088
8 Claims. (Cl. 200—169)



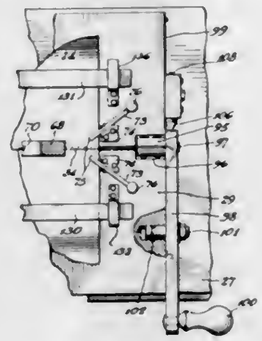
4. A front operated plug-type isolating switch comprising an insulating base having a longitudinal recess opening to the front surface thereof and having at least one transverse slot, a pair of cooperating and spaced stationary contacts mounted in said slot, a combined operating member and bridging contactor carrier comprising a flat insulating plate disposed within said longitudinal recess with a free sliding fit and being interposed between said stationary contacts at all times, said operating member having mounted thereon a contactor for bridging said stationary contacts when said operating member is in its innermost position, and latching means for preventing accidental movement of said operating member to its innermost position comprising a flat sliding member adapted for passage through an opening in said operating member when in its outermost position, and spring means underlying said sliding member to urge the latter through the opening in said operating member to automatically effect latching of the latter when the aforementioned opening therein becomes alined with said sliding member.

2,641,672
ELECTRICAL CONDUCTOR
Norman C. Parrish, Redondo Beach, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application May 8, 1950, Serial No. 160,609
4 Claims. (Cl. 201—63)



1. An insulated electrical conductor comprising a ceramic foundation member having a highly polished surface, a continuously conductive trace of titanium metal on said polished surface, said trace being friction bonded only to said polished surface, a layer of conductive material plated on said trace at at least two points spaced along said trace, and conductive connections fastened to said conductive plated layer.

2,641,673
WELDING APPARATUS
Robert E. Dahl, Hinsdale, Ill., assignor of one-half to Advance Transformer Co., Chicago, Ill., a corporation of Illinois
Application March 13, 1951, Serial No. 215,235
4 Claims. (Cl. 219—8)



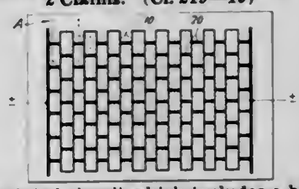
1. In a welding machine of the character described, and including a mandrel, means for setting the edge of a sheet metal member on a given line of said mandrel which comprises, a slot extending the length of the mandrel and having the center thereof coinciding with said line, an elongate gauging member in said slot and movable up and down therein and having an edge adapted to protrude from the slot, said edge having a thickness equal to substantially one-half the width of the slot, a lever pivoted to the mandrel and having one end arranged at the end of the slot and movable up and down thereat, said gauging member extending out of the slot and engaging the said one end of the lever so that pivotal movement of the lever will move the gauging member in and out of the slot.

2,641,674
METHOD OF JOINING THIN METALLIC SHEETS
Howard S. Orr and Alfred Teplitz, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey
Application December 3, 1951, Serial No. 259,646
6 Claims. (Cl. 219—10)



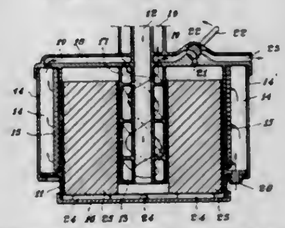
1. A method of joining two thin metallic pieces comprising adhesively attaching a thin platen of metal whose conductivity is higher than that of said pieces to one of the pieces adjacent an edge thereof, lapping an edge of the other piece over this edge of the first piece and over said platen, adhesively attaching said platen to said second piece, and applying an electrical resistance weld to the lapped edges of the pieces through said platen.

2,641,675
PRINTED ELECTRICAL CONDUCTOR
Wilson H. Hannahs, Westbury, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application January 17, 1950, Serial No. 138,983
2 Claims. (Cl. 219—19)



1. A printed circuit which includes a base, terminal points for the attachment of electronic circuit elements and film-like conducting paths between said terminal points, said conducting paths consisting of a group of parallel paths frequently connected at equipotential points and having equal current densities.

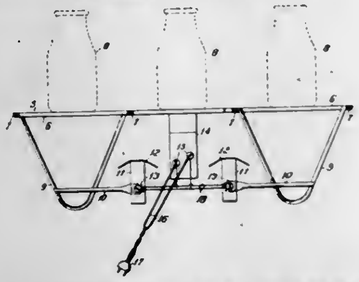
2,641,676
APPARATUS FOR MELTING WAXY COMPOUNDS FOR SPRAYING PURPOSES
Sten A. W. Jeurling, Stockholm, Sweden
Application July 18, 1950, Serial No. 174,477
In Sweden June 5, 1950
3 Claims. (Cl. 219—19)



1. A combined heater for melting and liquefying waxy compounds for spray gun discharge and for heating air to be used in the spraying process,

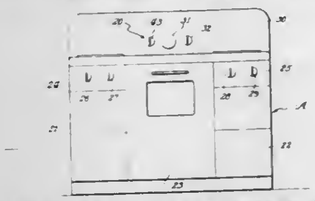
comprising in combination a receptacle for the compound to be heated, an air heating chamber arranged around and on the outside of said receptacle, an electric heating element located within said air heating chamber adjacent the wall of said receptacle and means for passing air through said air heating chamber to said spray gun.

2,641,677
HEATER FOR BOTTLED BEVERAGES
James W. Taylor, Brunswick, Ga.
Application October 5, 1950, Serial No. 188,598
7 Claims. (Cl. 219—37)



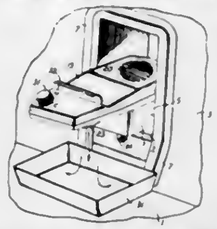
6. A bottled beverage heater comprising a rack for supporting beverage containers thereon, said rack comprising a plurality of spaced rods and connecting cross rods secured thereto, leg members secured to some of the spaced rods, an arm secured to said leg members, a heating element mounted between a pair of said arms and extending substantially throughout the width of said rack, and a deflector disposed at an angle away from said rack and carried over said heating element.

2,641,678
SAFETY SWITCH FOR RANGES
Clarence M. Hardy, Effingham, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 24, 1948, Serial No. 23,069
3 Claims. (Cl. 219—37)



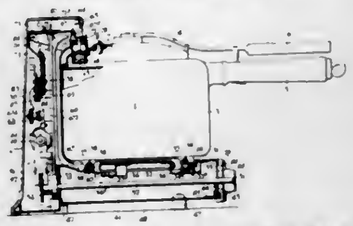
1. For an electric range: means defining a cabinet including a front panel surface and a table top surface having a backboard panel extending upwardly from said table top surface at the rear of said cabinet, an electric circuit for said range, a two circuit heating element in said electric circuit and disposed on said table top surface, a first manually operable control means for said two circuit heating element for selectively controlling energization of one or the other or both of said two circuit heating element, and a second control means interposed in said electrical circuit and comprising a dial rotatable between on and off positions at the will of the operator to control energization and deenergization of said two circuit heating element independently of said first manually operable control means, said first manually operable control means being disposed on the front panel surface of said range and said second manually operable control means being disposed on the lower regions of said backboard panel of said range within convenient reach of the operator but out of reach of small children.

2,641,679
FOOD CONDITIONER FOR COOKING RANGES
Almer H. Brodbeck, Webster Groves, Mo., assignor to Magic Chef, Inc., a corporation of New Jersey
Application November 26, 1951, Serial No. 258,266
17 Claims. (Cl. 219—39)



16. A food conditioner for a cooking range having a substantially horizontal working surface and an upwardly extending back panel adjacent said working surface; said back panel having an opening, pivot means adjacent the opening, an enclosed blower unit swingable on said pivot means from a retracted position in the opening to an extended position, said blower unit containing a motor-driven fan, a duct extending from said fan, said duct having an outlet and a heater in the duct between the motor and the outlet, said outlet being arranged for projection of air substantially downward toward said working surface when the blower unit is in extended position, the unit having a face portion adapted to cover the opening when the blower unit is in retracted position.

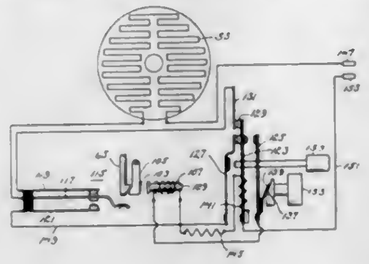
2,641,680
COOKING APPARATUS
Charles Roger Turner and Paul Garfield Turner, Enfield, Springfield Township, Montgomery County, Pa., assignors to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 2, 1947, Serial No. 777,496
30 Claims. (Cl. 219—43)



1. In an apparatus for controlling the operation of a pressure cooking vessel, electrical heating means for heating said vessel, a current-operable thermostatic switch device connected

in circuit with said heating means so as to effect intermittent energization of said heating means, whereby to reduce the heat output of said heating means, a normally closed switch connected in parallel with said device, thus normally short-circuiting said device, and means for opening said switch to render said device operable when the pressure in said vessel has reached a predetermined value.

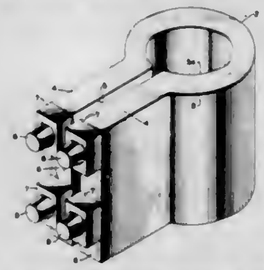
2,641,681
COFFEE MAKER
Philip E. Williman, Maple Park, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application November 10, 1951, Serial No. 255,796
5 Claims. (Cl. 219—44)



5. In combination in a coffee maker or the like, a container for water, an electric heater therefore, a basket submersible in water in said container, lifting means for moving said basket out of submerged position, a first bimetal bar responsive to the temperature of said container, two sets of contacts operable thereby at different temperatures, a change-over switch operable when said basket is submerged for causing the higher-temperature set of said contacts to control said heater for energizing it, a second bimetal bar, a timing heater for one of said bars, timer contacts jointly operated by said two bars, said higher-temperature contacts being operable to reduce the rate of energization of said container heater and energizing said timer-heater in response to said container reaching that higher temperature, said timing contacts being operable by the dissimilar responses of said two bimetal bars to said timing heater for actuating said lifting means and for operating said change-over switch to connect the container-heater to the lower-temperature set of contacts operable by said first bimetal bar for control thereby.

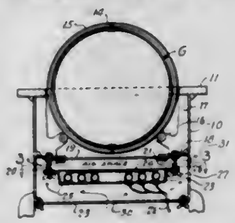
2,641,682
INDUCTION HEATING UNIT
Philip M. McKenna, Greensburg, Pa., assignor to Kennametal Inc., Latrobe, Pa., a corporation of Pennsylvania
Application April 4, 1949, Serial No. 85,391
6 Claims. (Cl. 219—47)

1. An induction electrical heating coil comprising a solid bar of sintered hard metal composition consisting essentially of titanium carbide and an auxiliary metal of the iron group, continuous in cross section, said bar having a main tubular portion forming a coil between end portions, and said end portions being provided with terminals for connection to a source of high-frequency electrical current, the composition of the metal bar consisting, by weight, of about 40 to 80% titanium carbide, 5 to 50% columbium-



tantalum-titanium carbide, and 15 to 20% auxiliary metal of the iron group.

2,641,683
INDIRECTLY ILLUMINATED GLOBE ASSEMBLY
Raymond R. Dupler, Toledo, Ohio
Application November 5, 1949, Serial No. 125,757
1 Claim. (Cl. 240—2)

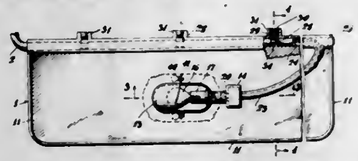


An indirectly illuminated globe assembly comprising a housing having side walls, a ring extending inwardly from said side walls and separating the housing into upper and lower compartments, a translucent legend-bearing globe in the upper compartment, a translucent plate carried by the ring and covering the opening therein, threaded rod means depending from said ring, a second translucent plate below said first plate and carried by said rod means, a flanged trayline casing having a reflecting surface directly beneath said second plate and carried by said rod means, fluorescent tubes in coil form within said casing, and adjusting elements on the lower end of said rod means whereby to support said second plate and casing and to enable adjusting movement thereof toward and away from said first plate.

2,641,684
VISOR AND LIGHT FOR AUTOMOBILE INTERIOR
Vincent J. Dillon, Jersey City, N. J.
Application June 22, 1951, Serial No. 233,061
1 Claim. (Cl. 240—7.1)

An automobile visor comprising a sheet of material having a tubular passageway extending along one edge thereof and a bulb housing projecting above its upper surface at a location spaced from said tubular passageway and a wire-receiving passageway having one end communicating with said housing and another end communicating with said tubular passageway, and means for supporting the visor for adjustment about said edge comprising a tubular member in and extending along a portion only of the

length of said tubular passageway having an open end in said tubular passageway spaced from an end of the tubular passageway and from said other end of the wire-receiving passageway, said tubular passageway between the open end of the



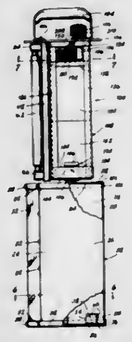
tubular member and said other end of the wire-receiving passageway being adapted to freely contain a length of electric wiring to facilitate twisting of the wiring upon adjustment of the sheet with respect to said tubular member.

2,641,685

FLUORESCENT HAND LAMP CONSTRUCTION

Joseph G. Pessina, St. Louis, Mo., assignor to Emro Manufacturing Company, Incorporated, St. Louis, Mo.

Application May 22, 1951, Serial No. 227,555
5 Claims. (Cl. 240—10.65)



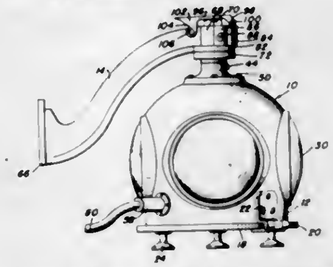
1. In a fluorescent hand lamp construction: a substantially rectangular casing provided with an arcuate lens in the front wall and a generally rectangular opening in the top wall thereof; a cover plate for normally sealing said opening; a skeleton framework depending from and rigidly secured at its upper end to the underside of the cover plate; a latching mechanism hingedly mounted on the lower end portion of the framework for releasably supporting a pair of superposed B batteries within said framework; spaced retainer clips mounted on the bottom wall of the casing for engaging the free lower corner portions of said depending framework; an arcuate reflector vertically coextensive with and supported by the framework in spaced relation to said lens member; a fluorescent tube disposed between the reflector and said lens also supported by said framework; a switch and an assembly of wiring and related elements forming in combination with said tube and said batteries a conventional fluorescent lighting system mounted in said framework between the uppermost B battery and said cover plate; an actuating stem for the switch projecting upwardly through the cover plate; a manually rotatable knob rigidly secured to the projecting end of said stem; and a handle rigid with said cover plate for lifting from the casing the unitary assembly comprising said framework, said cover plate, and all of the elements supported thereby, and for inserting said assembly into said casing.

2,641,686

ROTATABLE ELECTRICAL MARKER LIGHT FOR TRAINS

Alfred B. Carruthers, Fort Scott, Kans.

Application January 11, 1951, Serial No. 205,570
2 Claims. (Cl. 240—24)



1. A marker light for trains comprising a casing including a dome shaped top wall, an integral ferrule on said dome, a spindle including a threaded end extending through said ferrule, a flange carried by said spindle overlying the end of said ferrule, a threaded locking collar threadedly engaging the threaded end of said spindle, said ferrule being non-rotatably secured between said flange and said locking collar, an intermediate portion on said spindle, a collar non-rotatably attached to said intermediate portion of said spindle, a support arm, a sleeve on said arm, said spindle extending through said sleeve with the intermediate portion abutting said sleeve, a plurality of circumferentially spaced parallel bores extending longitudinally in said collar, a flange on said sleeve, said flange having a bore alignable with the bores of said collar, a plunger mounted on said sleeve and extending through the bore of said flange, said plunger being selectively engageable in the bores of said collar.

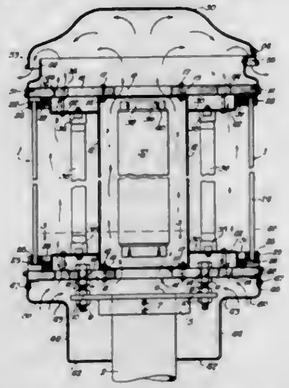
2,641,687

FLUORESCENT LIGHTING FIXTURE HAVING AIR-COOLED LAMP AND BALLAST CHAMBER

William S. Akely, Oak Park, Ill., assignor to The Guardian Export Packers Corporation, Oak Park, Ill., a corporation of Illinois

Application February 23, 1950, Serial No. 145,792
9 Claims. (Cl. 240—25)

5. A lighting fixture comprising a light transmitting casing forming a lamp chamber, means for supporting fluorescent lamps in said lamp chamber, a rain shedding shroud structure forming an air chamber attached to the upper end of said casing and including means forming an air exhaust passage from said air chamber terminating in a downwardly facing air outlet, a rain shedding shroud structure forming an air chamber attached to the lower end of said casing and having a downwardly directed air inlet port therein, each of said shroud structures having openings therein to said lamp chamber to provide an air flow passageway between said air chambers through said lamp chamber, means in said casing forming an air duct between said air chambers distinct from said lamp chamber, and a ballast in said air duct whereby said lamp chamber and said ballast chamber are cooled by



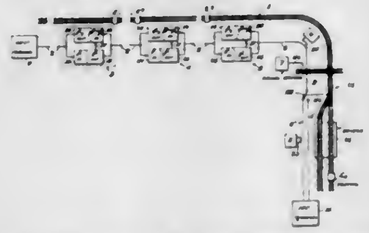
individual air streams flowing between said air chambers.

2,641,688

RADIO ECHO PULSE SYSTEM FOR VEHICLES FOLLOWING A FIXED ROUTE

Paul R. Adams, Cranford, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application February 27, 1946, Serial No. 650,703
21 Claims. (Cl. 246—8)



1. A safety device for vehicles following a fixed route, comprising a conductor for pulse signals of the radar type said conductor extending along said route, a radio-frequency pulse transmitter coupled to said conductor, a signal warning station located remotely from said transmitter along said route and also coupled to said conductor, an object located along said route but further remote from said transmitter than is said station, means at said station to receive pulses transmitted over said conductor from said transmitter, means at said station controlled by the received pulses to re-transmit radio frequency pulses back to said conductor, and means at said station to introduce a time delay between the received and retransmitted pulses which delay is correlated with the distance between said station and said object.

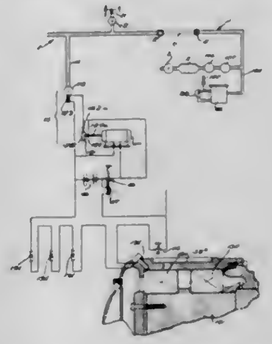
2,641,689

PNEUMATIC SIGNALING

Edward J. Poitras, Holliston, Mass.

Application January 12, 1950, Serial No. 138,129
16 Claims. (Cl. 246—169)

1. In combination with a railway car including the trucks, wheel axles and their journal bearings, the car equipped with a pneumatic line adapted for signalling, normally closed venting means in heat-subject relation to one or more of the bearings for opening in response to overheating thereof, and telegraphic pneumatic relay means comprising a chambered body having a port and a conduit therefrom to the venting means for actuation of the relay means thereby, said body having a passage connected in com-



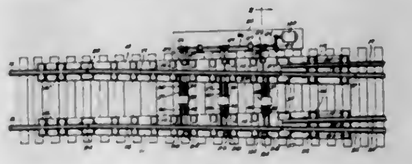
munication with the pneumatic line of the car and leading from the body to atmosphere thereby to vent the line to impress a signal thereon, closure means controlling and normally blocking signalling venting of the passage, and periodic pressure-responsive means associated with the body for so predeterminedly operating the closure means on opening of the heat-subject venting means as to distinctively code the signal impressed on the pneumatic line, said relay means being interposed directly between the venting means and the pneumatic line.

2,641,690

TRACK SWITCH

Archibald J. McLeish, Morrisville, Pa.

Application March 29, 1948, Serial No. 17,649
2 Claims. (Cl. 246—240)



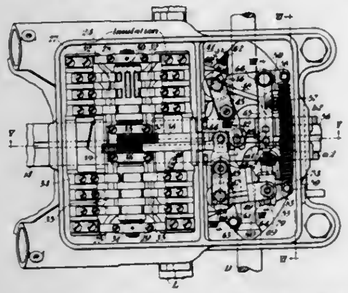
1. In a railroad switch, the combination which comprises rail sections positioned in openings between spaced ends of rails, sole plates positioned under the said rail sections and rails and permanently connected to the said rails, connecting elements retaining the rail sections on the sole plates and positioned to provide lateral travel of said rail sections, a transversely disposed rod connecting said rail sections at one end, a traveller positioned on said transverse rod, springs on opposite sides of the traveller for urging the traveller to a point midway between the rails, a threaded bar extended through the said traveller, and means rotating the said threaded bar to actuate the said rail sections.

2,641,691

RAILWAY SWITCH OPERATING APPARATUS

Herbert L. Bone, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application January 17, 1950, Serial No. 139,005
8 Claims. (Cl. 246—253)



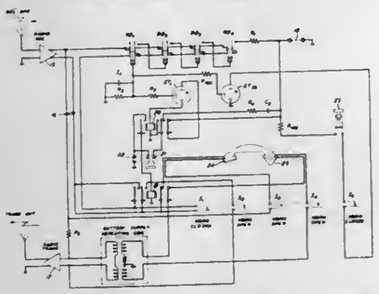
1. The combination with a motion plate movable to two extreme positions, two members normally movable in unison from one extreme position through an intermediate position to a second extreme position by said motion plate in moving from one extreme position to its other extreme position, and means for moving one of said movable members to its intermediate position when said motion plate and said members are in either of their extreme positions; of a latch stud for one of said movable members, said stud having an enlarged portion and a cam surface on said enlarged portion, a latching member pivoted to the other of said movable members, a cam surface on said latching member normally engaging the cam surface of said stud, an arcuate surface and a shoulder on said latch member; said shoulder engaging the cam surface of said stud when one of said movable members is moved to its intermediate position by said moving means, said arcuate surface engaging the enlarged portion of said latch stud to hold said member in its intermediate position.

2,641,692

MOBILE RADIO TELEPHONE SYSTEM

Benjamin F. Lewis, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 27, 1949, Serial No. 112,775
10 Claims. (Cl. 250—6)



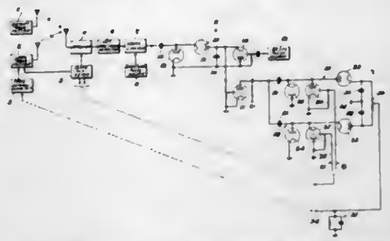
1. A radio telephone system comprising a central office and a plurality of outlying radio stations, each of said stations having a radio transmitter and a radio receiver, means at said central office for calling a selected one of said stations by transmission therefrom of a distinctive call signal, switching means at a called station under control of a local subscriber for connecting the output of the radio receiver thereof to the input of the radio transmitter thereof, whereby a received call signal is retransmitted, receiving means and cooperating switching means at said central office to interrupt transmission therefrom of said call signals upon reception thereat of said retransmitted signals, and further switching means at said called station operable upon interruption of said call signals transmitted from said central office to condition said station for talking.

2,641,693

LOCAL TRANSMITTER FREQUENCY CONTROL CIRCUIT

Emile Labin, New York, Sidney Frankel, Forest Hills, and Martin Silver, New York, N. Y., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application November 18, 1944, Serial No. 564,140
12 Claims. (Cl. 250—17)



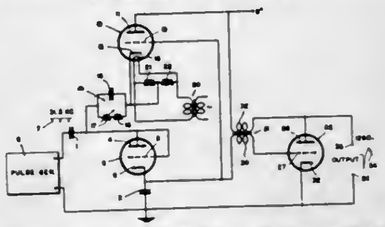
1. A radio system for supplying a voltage indicative of the difference between two given alternately received frequencies, comprising a third frequency source, voltage deriving means including a cycle counter circuit for alternately mixing each of said given frequencies with said third frequency to provide in a given alternation two uni-directional voltages each proportional to a respective one of said given frequencies, and means for differentially combining said voltages whereby a resultant is obtained which is proportional to the difference between the first-mentioned two frequencies.

2,641,694

PULSE COUNTER

Clyde E. Hallmark, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana

Application April 27, 1946, Serial No. 665,593
19 Claims. (Cl. 250—27)



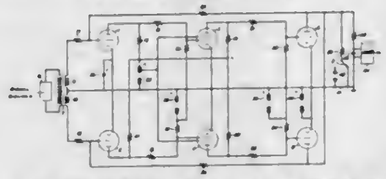
1. An impulse counter comprising a charging condenser, a storage condenser, unilaterally conducting means for connecting said condensers in series, means for applying pulses to said charging condenser, an electron discharge device controlled by the voltages across said condensers for applying across said storage condenser substantially equal voltage increments in response to said pulses, and means responsive to and operative at a predetermined voltage across said storage condenser for discharging said storage condenser to a predetermined potential.

2,641,695

LINEAR RECTIFIER

Clarence A. Lovell, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 30, 1949, Serial No. 135,929
8 Claims. (Cl. 250—27)



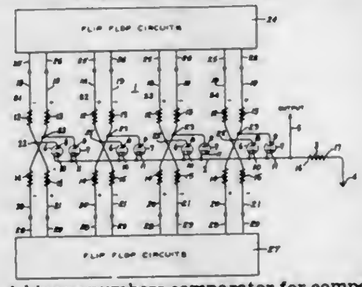
1. In combination, a source of signal-modulated waves, a load resistor, two high gain amplifiers with their inputs connected in push-pull to said source and with their outputs connected in parallel to said load resistor, two equal resistors connecting the same side of said load resistor to points of respectively opposite phase in said inputs, and an integrating circuit connected to said load resistor.

2,641,696

BINARY NUMBERS COMPARATOR

Simon B. Woolard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 18, 1950, Serial No. 139,272
9 Claims. (Cl. 250—27)



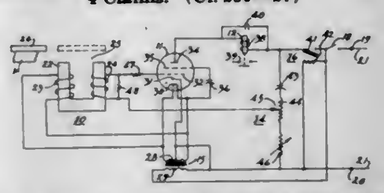
1. A binary numbers comparator for comparing two binary numbers one with the other and for developing one output voltage signal in response to a lack of identity and a different output voltage signal in response to an identity of the two numbers being compared comprising a plurality of pairs of rectifiers, said rectifiers each having an input and an output electrode and becoming conductive in response to a predetermined positive voltage applied to said input electrode, a common output means electrically connected to said output electrodes of all of said pairs of rectifiers, a common grounded resistor means electrically connected to said output electrodes of all of said pairs of rectifiers, a first and a second pair of resistors for each pair of rectifiers, connections for electrically connecting one of each of said pairs of resistors to a different one of the input electrodes of its associated pair of rectifiers, and connections for connecting each pair of resistors to a source of selective voltage representing a particular binary character.

2,641,697

ELECTRONIC LIMIT CONTROL CIRCUIT

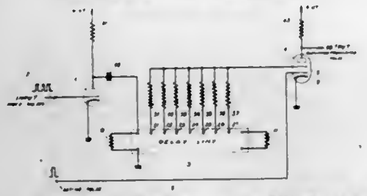
Charles Allan Schurr, Euclid, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 18, 1950, Serial No. 139,178
4 Claims. (Cl. 250—27)



1. A control circuit comprising a gaseous electronic tube having a grid, cathode, and plate, means connecting said cathode and plate in a plate circuit, means for connecting said plate circuit to a source of alternating voltage to provide a cathode-plate voltage between said cathode and plate, and electro-responsive device in said plate circuit responsive to the conductivity of said tube, a transformer having a primary winding arranged to be supplied with an alternating voltage from said source and having a secondary winding, said transformer having a core common to said primary and secondary windings and providing a flux path exposed for entry by a relatively movable iron vane, whereby the degree of electromagnetic coupling between said primary and secondary windings is varied upon relative movement of the vane into and out of said path and the secondary voltage induced in said secondary winding thereby lags the primary voltage by an angle materially less than 180° and has a magnitude dependent upon the relative position of said vane and flux path, a phase shifting means arranged to be supplied from a source of alternating voltage and, when so supplied, being operative to provide a substantially constant alternating voltage capable of being placed substantially 180° out of phase with said secondary voltage, circuit means so interconnecting said phase shifting means and said secondary winding that said constant voltage is substantially 180° out of phase with said secondary voltage thereby to produce a resultant alternating voltage substantially equal to the arithmetical difference between said opposed voltages, said circuit means including means operative to impress said resultant alternating voltage between the grid and cathode of said tube, with one of its components at least approximately in phase with said cathode-plate voltage, for controlling the conductivity thereof, and said core being formed to so define said flux path that the entry of the vane thereinto changes the active flux of the transformer to cause said resultant alternating voltage to increase in a direction such that said increased resultant alternating voltage is at least approximately in phase opposition to said cathode-plate voltage, whereby the conductivity of said tube may be controlled in accordance with the relative position of said vane and said flux path.

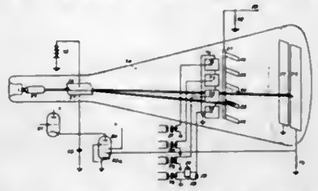
2,641,698
DELAY LINE DECODER
Paul François Marie Gloess and Louis Joseph Libois, Paris, France
Application November 1, 1949, Serial No. 124,772
In France November 13, 1948
10 Claims. (Cl. 250—27)



1. A device for translating intelligence represented by groups of coded electric voltage pulses into variable amplitude voltage pulses, each of said groups consisting of a constant integer number of successive voltage pulses of predetermined duration, each of said pulses being of one of two possible signalling conditions, said two conditions respectively being that of zero voltage, and that of a voltage of a predetermined amplitude and polarity, said device comprising a delay line having a propagation time at least equal to the duration of one of said groups, resistances for terminating both ends of said delay line so as to avoid signal reflection at said ends of said delay line, means for impressing said signals constituted by groups of coded pulses upon one end of said delay line, taps staggered along the length of said delay line at intervals related to time intervals between successive pulses pertaining to a same group, a plurality of resistances in a voltage dividing arrangement, each resistance being connected by one of its terminals to one of said taps on said delay line and by its other terminal to a common point, a gating amplifier, means for impressing voltage received at said common point upon the input of said gating amplifier, a pulse generator delivering recurrent control voltage pulses so as to render said gating amplifier operative only during predetermined recurrent time intervals, and means for impressing voltage received from the output of said gating amplifier upon a working circuit.

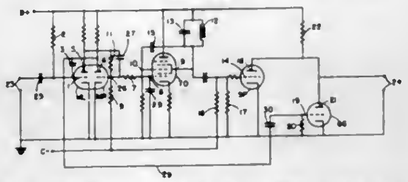
2,641,699
MULTIPLEX PULSE TIME MODULATION SYSTEM
Paul François Marie Gloess and Louis Joseph Libois, Paris, France
Application March 25, 1949, Serial No. 83,302
In France March 27, 1948
4 Claims. (Cl. 250—27)

1. In a multiplex time division pulse communication system using recurrent groups of pulses, each group comprising a number of pulses at least equal to that of the communication channels plus one, and wherein the individual modulation signals of a number of communication channels are represented by the time intervals between two successive pulses in each group, transmitting apparatus comprising a cathode-ray beam tube including electro-optical means for flattening its beam in a direction parallel to a given first direction, a first deflecting device for periodically deflecting said beam in a second direction perpendicular to said first direction and bringing it back rapidly to its initial positon, a second deflecting device comprising pairs of electrodes, in number equal to that of communication channels for deflecting said beam in said first direction, each pair of electrodes being submitted to a unipolar voltage obtained by adding to the alternating modulation signal voltage of one corresponding communication channel a rectified direct-current component substantially proportional to the amplitude of said signal voltage, a rake-shaped electrode connected to a point at a fixed potential through a first resistor and arranged so as to be swept by the beam during its movement parallel to said second direction, a



target connected to a point at a fixed potential through a second resistor and arranged so as to be struck by the beam after its having swept said rake-shaped electrode, means for impressing voltage received at the terminals of said second resistor so as to influence deflection speed of above said first deflecting device, and means for impressing voltage received at the terminals of said first resistor upon a communication circuit.

2,641,700
PULSE GROUP GENERATOR
Conrad H. Hoeppner, Washington, D. C.
Application November 14, 1945, Serial No. 628,637
12 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)

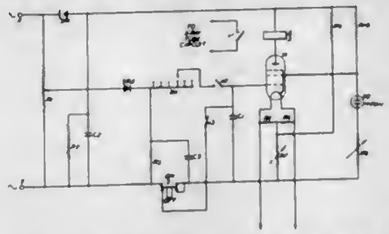


6. A means for producing voltage pulses which comprises, means generating a rectangular voltage, a sine wave oscillator fed by said rectangular voltage operative responsive thereto to generate a sine wave voltage whose period is many times shorter than the duration of said rectangular voltage, and combining means connected to receive said sine wave voltage and said rectangular voltage for amplitude modulating said rectangular voltage in accordance with a portion of each cycle of said sine wave voltage, said portion being that generated during the interval in which said cycle exceeds a predetermined amplitude of one sense.

2,641,701
TIMING DEVICE
Thomas Moore, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 30, 1947, Serial No. 771,457
In Great Britain November 29, 1946
2 Claims. (Cl. 250—27)

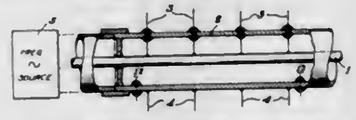
1. An electronic timing device comprising a current supply source, a source of biasing voltage, an electron valve having control grid, cathode and anode electrodes, a relay connected in series between said anode electrode and said current

supply source, said relay operating responsive to flow of current in said valve, a charging circuit comprising a condenser and resistor in series, said condenser being connected between said control



grid electrode and said cathode electrode, and means including said relay for connecting both said condenser and said control grid electrode to said source of biasing potential upon operation of said relay.

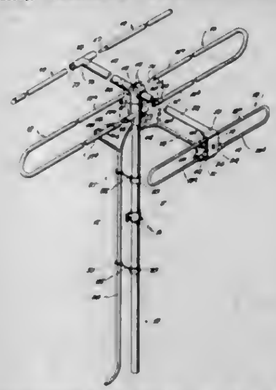
2,641,702
CONTROL OF WAVE LENGTH IN WAVE GUIDE AND COAXIAL LINES
Nathaniel L. Cohen, Teaneck, Ladislas Goldstein, Weehawken, and William Sichak, Lyndhurst, N. J., assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 22, 1948, Serial No. 55,862
2 Claims. (Cl. 250—33.63)



1. A high frequency wave transmission line, comprising a hollow member defining a wave-propagating line upon which high frequency waves are impressed, an enclosed gas-tight device extending along a predetermined length of the interior of said member, said device containing a filling of an ionizable gaseous medium, electrodes at opposite ends of said device, means to adjust the potential between said electrodes to control the density through said medium to stabilize the physical wave length of the waves propagated along said line within said medium, and a plurality of radiator elements coupled to said wave propagating line through the ionizing device at spaced points along said device, said means to adjust being controlled to present the high frequency energy at the same relative phase to said radiators over a range of frequency of said high frequency source.

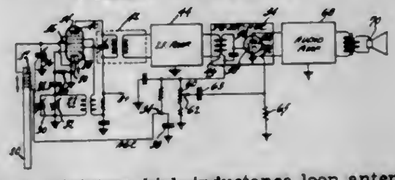
2,641,703
ANTENNA STRUCTURE
Charles F. Valach, Berwyn, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application September 21, 1949, Serial No. 116,951
6 Claims. (Cl. 250—33.65)

1. In an antenna structure the sub-combination of a horizontal cross arm, a plurality of fittings secured to said cross arm at spaced apart points therein, a pair of mounting sockets on each of said fittings, each of said sockets being disposed perpendicularly to the cross arm, each pair of said sockets comprising a single transverse aperture through the fitting, with an internal abutment at its center to act as a locating stop for antenna elements mounted therein, and



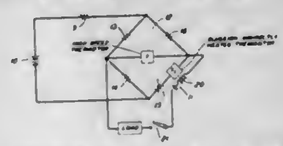
means comprising a set screw on each side of the locating stop for securing the antenna elements in said sockets.

2,641,704
HIGH-INDUCTANCE LOOP ANTENNA AND SYSTEM
Harold B. Stott, Glenolden, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application August 3, 1950, Serial No. 177,363
8 Claims. (Cl. 250—33.67)



1. A miniature high-inductance loop antenna for reception of electromagnetic waves comprising in combination, an elongated ferromagnetic core having a relative ratio of length to diameter of substantially no less than 16 to 1 and no more than 50 to 1, and antenna coil windings spread over a small section of the length of said core at substantially one end thereof, whereby the antenna occupies a minimum of spaces without sacrificing functional performance.

2,641,705
STABILIZED OSCILLATOR
Luther W. Hussey, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 4, 1946, Serial No. 714,089
9 Claims. (Cl. 250—36)



1. In combination with an oscillation generator including an element having a preselected

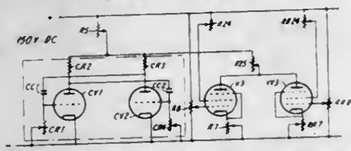
resistance characteristic, a source of direct current for biasing said element to a certain point on said characteristic whereby oscillations are generated, a load having a tuned network for utilizing the generated oscillations, means including a thermally variable resistor to connect said element, and load in a series circuit to said source for stabilizing the amplitudes of the generated oscillations, said resistor being responsive to the generated oscillations for changing its effective resistance and thereby varying the amount of direct current supplied to said element to tend to stabilize the amplitudes of the generated oscillations.

2,641,706

CONTROLLABLE MULTIVIBRATOR CIRCUIT

Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 23, 1949, Serial No. 100,803
2 Claims. (Cl. 250—36)



1. In a circuit for obtaining the resultant potential of a plurality of variant quantities comprising a first source of varying potential representing one of said quantities, a first source of supplementing potential representing a constant quantity operating upon said one of said quantities, means operably coupled to said supplementing potential to control the effectiveness thereof with respect to said first source, a first electron discharge device comprising an anode, a cathode and a control grid, said first varying potential and said first supplementing potential being applied to the grid of said first device whereby the current flow thereof varies accordingly, a second source of varying potential representing another of said quantities, a second source of supplementing potential representing a constant quantity operating upon said another of said quantities, means operably coupled to said second supplementing potential to control the effectiveness thereof with respect to said second source, a second electron discharge device comprising an anode, a grid and a cathode, said second sources of varying potential and supplementing potential being applied to the grid of said second device whereby as the potential applied thereto varies there is a direct variation in current flow through said second device, a third electron discharge device, means coupling said second device to said third device such that said current flow through said second device induces an inverse change in said third device, means coupling said first and third devices to a common anode impedance across which a resultant potential equal to the difference between the output potential of said first and second devices may be derived.

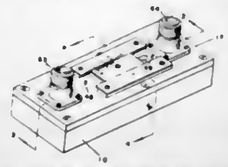
2,641,707

FREQUENCY RESPONSIVE APPARATUS

John L. Barker, Norwalk, Conn., assignor to Eastern Industries, Incorporated, East Norwalk, Conn., a corporation of Delaware

Application October 15, 1948, Serial No. 54,783
11 Claims. (Cl. 250—39)

1. Frequency responsive apparatus for high frequency electrical energy including a substantially rigid metal casing providing a longitudinal internal cavity and a relatively narrow slot communicating with said cavity and extending along a relatively short portion of its length, said casing formed to serve as the outer conductor of a closed concentric line, a conductor centrally disposed in said cavity and electrically connected to said casing at the ends of said cavity to serve as the central conductor of such closed concentric line, a mass having a dielectric constant substantially different from air and principally in the form of



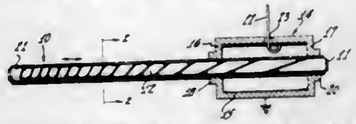
a relatively thin-walled elongated sleeve disposed in substantially spaced relation between said central conductor and said outer conductor within said cavity and extending along said central conductor for a relatively small part of the length of the latter, and an adjustable support for said mass with respect to said casing and extending into such slot for so disposing said mass and variably positioning said mass along said central conductor whereby said line may be tuned over a range of frequency.

2,641,708

VARIABLE RESONANT STRUCTURE

Wendell L. Carlson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 29, 1950, Serial No. 152,607
9 Claims. (Cl. 250—40)



1. A variable resonant structure for varying the tuning response of a high frequency electrical circuit over a relatively wide high frequency range comprising a ribbon conductor disposed spirally about a fixed axis with a predetermined varying pitch to provide an elongated spiral inductor, the inductance of which varies in a predetermined manner along said axis, two conductive members spaced a distance of several conductor widths apart from each other and near said inductor, a dielectric spacer between said members and said inductor, thereby to form two capacitances with said inductor, and means for relatively moving said inductor and said members in the direction of the axis to bring different portions of the spiral inductor between said members.

2,641,709

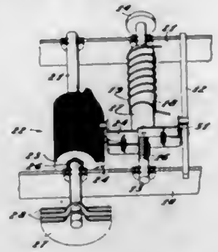
FREQUENCY CORRECTION DEVICE

Harris Stover, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application February 13, 1952, Serial No. 271,369
5 Claims. (Cl. 250—40)

1. A motion translating device comprising a pair of end plates, a guide member supported between said end plates, a first shaft rotatably supported between said end plates and formed

with a threaded portion between, a coil form mounted to one of said end plates about said first shaft, a coil of wire wound about said coil form, a tuning slug threadedly connected to said first shaft and movable within the confines of said coil form, a transverse follower extending from one end of the tuning slug and engageable



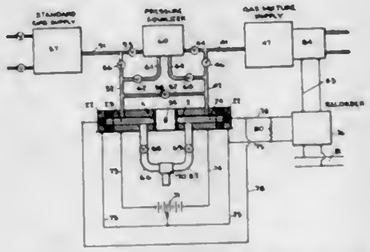
with said guide, a second shaft rotatably supported between said plates adjacent the first shaft, a plurality of discs mounted on said second shaft and adjustable angularly about the shaft, a tab extending from each of said discs, and a second transverse follower extending from said tuning slug and engageable with said tabs.

2,641,710

RADIOLOGICAL GAS ANALYSIS

Domenick J. Pompeo, Oakland, and John W. Otvos, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application March 2, 1951, Serial No. 213,528
10 Claims. (Cl. 250—43.5)



1. A method for analyzing a gaseous medium for its composition, comprising the steps of establishing two electrical fields of substantially equal constant potential in two separate zones, flowing a gas of known composition through each of said zones while maintaining the gas therein at substantially equal constant pressures, subjecting the gas in said two zones to beta radiation of substantially equal constant intensity, combining the ionization currents produced in said two zones by said radiation in opposition to each other in such a manner as to reduce the resultant current to zero, discontinuing the flow of the gas of known composition through one of the chambers, flowing a gas of unknown composition through said chamber while maintaining constant conditions of pressure and radiation substantially as before, combining the ionization currents produced in the two chambers in opposition to each other, and determining the composition of the unknown gas by measuring the resultant current.

2,641,711

PHOTOCELL SENSITIVE TO ELECTRO-MAGNETIC RADIATIONS

Giovanni Tommasi, Rome, Italy

Application March 8, 1949, Serial No. 80,248
In Italy January 14, 1949
19 Claims. (Cl. 250—83.3)



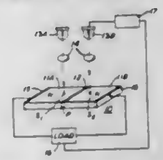
1. An apparatus sensitive to electro-magnetical radiations of a wavelength greater than 6 microns comprising an optical system adapted to reproduce a real image by means of said radiations, a layer of a sensitive substance composed of a material selected from the group consisting of a metalloid element and a compound selected from the group consisting of a binary chemical compound of a metal and a binary chemical compound of a metalloid in which the curve of the resistivity shows a first portion located in the zone of the low temperature wherein the resistivity is substantially constant with increase in temperature, a second portion located in the temperature zones immediately below the room temperature, wherein the resistivity rapidly decreases with increases in temperature and a third portion wherein the resistivity increases with increases in temperature with a course analogous to that of the metallic conductors, an insulating support, said layer being disposed on said insulating support in at least one portion, at least two sets of parallel conductors passing through said support and ending on different surfaces thereof, said conductors being disposed in such a manner that at least on the side of the surface covered with the sensitive substance their ends form a uniform mosaic so that each portion of the substance is in contact with at least one end of a conductor extending to each of said different surfaces and all the ends of the conductors of the several sets are in contact over said surface with at least a portion of the sensitive substance, an electrical circuit in which each of said insulated portions of said sensitive substance and the respective conductors are inserted, a device connected in said circuit for visually detecting the variations of the electrical state of the circuit, a chamber opaque to said radiations and containing said optical system and sensitive substance, and means for cooling said chamber.

2,641,712

PHOTOELECTRIC DEVICE

Reymond J. Kircher, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 13, 1951, Serial No. 236,616
9 Claims. (Cl. 250—204)



1. A photoelectric device comprising a body of semi-conductive material having therein a zone of one conductivity type between and contiguous

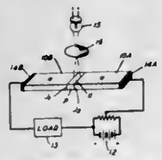
with a pair of outer zones of the opposite conductivity type, terminal connections to said outer zones, and optical lens means for directing a pair of light beams against said body, each beam incident upon a respective one of said outer zones.

2,641,713

SEMICONDUCTOR PHOTOELECTRIC DEVICE

John N. Shive, Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 21, 1951, Serial No. 216,754
6 Claims. (Cl. 250—211)



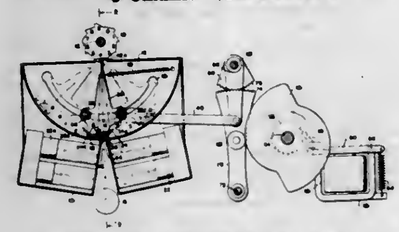
1. A photosensitive device comprising a body of semiconductive material having therein and extending inwardly from one face thereof a pair of zones of one conductivity-type separated by and contiguous with a zone of the opposite conductivity-type, the thickness of the intermediate zone being no greater than the diffusion length of charge carriers normally in minority in said intermediate zone, means for impressing a biasing potential between said pair of zones, and means for directing light against said one face.

2,641,714

OPTICAL RECORD READING DEVICE

Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 1, 1951, Serial No. 249,111
6 Claims. (Cl. 250—220)



1. Means for reading a plurality of indicia representing surfaces of a record device comprising, a common reading station, means for presenting each indicia representing surface of a record device at said common reading station in a different angular relation to a fixed plane passing through said common reading station, means for projecting a beam of light against an indicia representing surface presented at said reading station, a light sensitive device, a light reflecting member mounted for movement through a plurality of positions corresponding to the different angular positions of presentation of indicia representing surfaces at said reading station, light reflecting surfaces on said member adapted to direct a ray of light reflected from a differently disposed indicia representing surface to said light sensitive device in each of its positions of movement, and means for moving said light reflecting member through its several positions.

2,641,715

APPARATUS FOR MEASURING THE SPEED OF ELONGATED PRODUCTS

Charles B. Hull, University Heights, and Carl C. Keller, Shaker Heights, Ohio, assignors to United States Steel Corporation, a corporation of New Jersey

Application February 12, 1947, Serial No. 728,110
2 Claims. (Cl. 250—233)



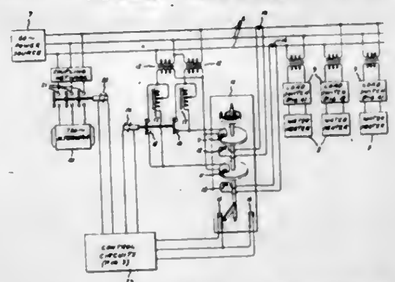
1. A device for obtaining an indication of the speed of a traveling elongated product comprising a base, a photo-cell mounted thereon, an arm pivoted to said base for tilting movement in a vertical plane, and projecting over the path of the product substantially normal thereto, a shaft journaled in said arm in alinement therewith, a shutter disc on said shaft adapted to engage the product and be driven thereby, a cantilever arm extending from said base over the path of the product and a light source on said arm adapted to project a beam of light onto said photo-cell through an opening in said disc.

2,641,716

LOAD CONTROL APPARATUS

Donald R. Hyer, Peabody, and Edward E. Lynch, Wakefield, Mass., assignors to General Electric Company, a corporation of New York

Application June 27, 1952, Serial No. 295,888
7 Claims. (Cl. 307—35)



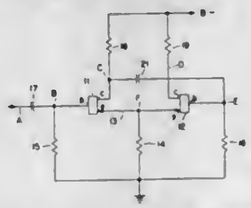
7. A load control system for selectively connecting a plurality of load devices to an electric power distribution system in accordance with varying power requirements on the system, comprising a plurality of load switches respectively connected between such load devices and the system, each of said load switches being operable to connect its associated load device to the system upon receipt of a carrier-current signal of about three to twelve seconds' duration and operable to disconnect its associated load device from the system upon receipt of a carrier-current signal of about twenty to forty seconds' duration, carrier-current supply means, a watt-responsive device having a first set of contacts which close only when the power requirements on the system fall below a first preset value and a second set of contacts which close only when the power requirements on the system exceed a second greater preset value, biasing means for selectively raising said first preset value by a predetermined amount to keep said first set of contacts closed until such power requirements increase by a desired increment, means controlled by said first set of contacts for automatically connecting said supply means to the distribution system and actuating said biasing means for a time interval in the order of three to twelve seconds, and means controlled by said second set of contacts for automatically connecting said supply means to the distribution system for a time interval in the order of forty seconds.

2,641,717

TRANSISTOR ONE-SHOT MULTIVIBRATOR

Dolan H. Toth, Spring Lake Park, Minn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application August 28, 1952, Serial No. 306,813
3 Claims. (Cl. 307—88)



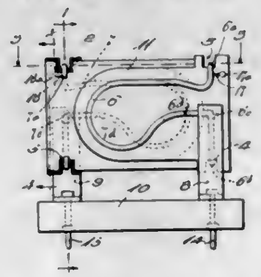
3. A high frequency pulse amplifying circuit comprising a power supply grounded at one of two terminals thereof, capacitive coupling means for supplying a pulse to said circuit, a pair of current amplifying transistors connected together at the emitters thereof and having the collectors thereof severally connected through similar resistors to the ungrounded terminal of said power supply, said emitters being connected to ground through a common resistor, and the base of one said transistor being connected through a capacitance to the collector of the other transistor and to ground through a resistor, whereby stable conduction is effected in said one transistor, said other transistor effecting amplification of said pulse.

2,641,718

METHOD OF MOUNTING THICKNESS SHEAR MODE QUARTZ CRYSTAL OSCILLATOR PLATES

Wallace H. E. Samuelson, Carlisle, Pa., assignor to Selectronics, Inc., Carlisle, Pa., a corporation of Pennsylvania

Application April 20, 1949, Serial No. 88,554
9 Claims. (Cl. 310—9.4)



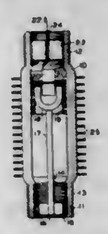
1. A piezoelectric crystal system comprising a quartz crystal plate of the AT-cut type, having X, Y and Z' axes with its edges sensibly parallel to the X and Z' axes and having spaced notches so positioned that a line connecting the corresponding notches on opposite edges is parallel to the Z' axis, a minimal moment of inertia mounting for said plate having inhibition of normal displacement due to a bending mode comprising compressive spring means establishing electrical connection with opposite faces of the quartz plate and terminating in hooks engaging the notches in the plate, and means for supporting and providing electrical connection to said compressive spring means.

2,641,719

DETONATION METER PICKUP

Max M. Adams, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 25, 1949, Serial No. 106,586
6 Claims. (Cl. 310—25)



1. A detonation meter pickup comprising, in combination, an elongated casing, means for securing said casing to the cylinder of an internal combustion engine, a pressure sensitive diaphragm at one end of said casing, a generally cylindrical coil secured to said casing and having its axis perpendicular to the axis of said casing, a U-shaped permanent magnet having its legs mounted in encircling relation to said coil to produce a magnetic field in the region of said coil, a metal rod secured at one end to said magnet and at its other end to said diaphragm, and members of insulating material mounting said permanent magnet for longitudinal movement relative to the coil but preventing transverse movement thereof relative to the coil whereby movements of said diaphragm are transmitted to said magnet, thereby to vary said magnetic field in the region of said coil.

2,641,720

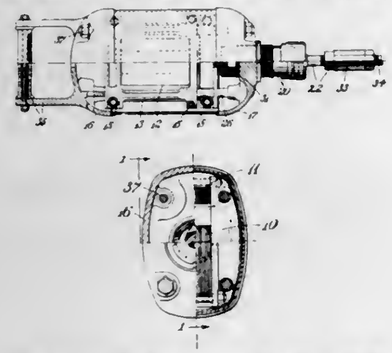
ELECTROMAGNETIC VIBRATOR

Donald Arnott Stewart, Hammersmith, London, England, assignor to Westool Limited, St. Helen's Auckland, England, a British company

Application December 29, 1949, Serial No. 135,611
In Great Britain January 17, 1949
2 Claims. (Cl. 310—28)

1. A portable electro-magnetic vibrator for use with an alternating supply of known frequency comprising a laminated core arranged to provide two pole faces, an energizing coil associated with said core, which core is clamped between two plates, two heads arranged at opposite ends of and secured to said two plates, a hand-grip secured to one head, the other of which heads is provided with a threaded bore, an externally threaded tubular member engaging said threaded bore and having an internal flange intermediate of its ends, a bearing at one end of said tubular member, a rod extending through said bearing,

abutments on said rod on opposite sides of said flange, an armature secured to said rod and spaced a short distance from said pole faces, helical springs encircling said rod on opposite sides of said flange, each of which engage said flange and one of said abutments, the mass of

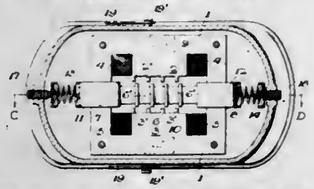


which armature energizing coil and heads on the one hand, and the mass of the rod and armature on the other hand and the stiffness of the springs are so selected in relation to the frequency of supply that resonance is set up when the energizing coil is energized.

2,641,721
SANDING, SCRAPING, AND POLISHING MACHINE

Enrique List, Buenos Aires, Argentina, assignor to ITEM Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina, a corporation of Argentina

Application March 27, 1951, Serial No. 217,696
4 Claims. (Cl. 310—29)

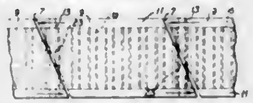


1. In a machine having a reciprocating motion for polishing, sanding and abrading, the combination comprising, a flat shell-like casing having an opening at its lower side, a magnetic stator housed within said casing, means for connecting said stator to the interior of said casing, said stator having three legs formed with longitudinally aligned openings for an armature, the center leg having a rectangular opening, the opposite sides of said opening having uniformly spaced teeth, coil means on the stator in connection with a source of alternating current, guide means fixed to the inside of the casing, an armature supported and guided by the guide means for longitudinal motion with respect to said stator and having a number of teeth equal to the number of teeth on the one side of the stator opening, the spacing of the armature teeth being uniform and equal to that of the teeth on the stator, two cylindrical compression springs each mounted on the inside of the casing and in opposition to one another, and engaging opposite ends of the armature thereby normally urging said armature to a neutral position in which the stator teeth are out of alignment with the armature teeth, and a work plate affixed to the armature reciprocatable therewith and projecting from the opening in the casing below the lower side thereof for engagement with a surface to be treated.

2,641,722
EDDY-CURRENT RING CONSTRUCTION FOR ELECTRICAL MACHINES

Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware

Application September 13, 1950, Serial No. 184,599
9 Claims. (Cl. 310—105)

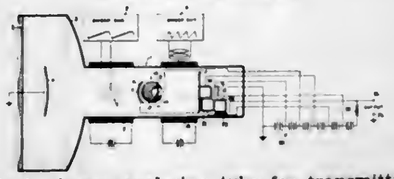


1. An eddy-current ring construction for electrical machines comprising a hub, a spaced surrounding segmental drum having slots determining its segments, and web members joining the hub and the drum, the general extension of each web member being axial but being of S-shaped contour, each web member comprising a U-shape in outline to provide axially spaced legs connecting the hub and adjacent segments respectively and to provide an intermediate space therein spanning a slot between adjacent segments.

2,641,723
TELEVISION IMAGE ANALYZING TUBE

Philo T. Farnsworth, Freyburg, Maine, assignor to Capehart-Farnsworth Corporation, a corporation of Delaware

Application July 29, 1950, Serial No. 176,732
7 Claims. (Cl. 313—65)



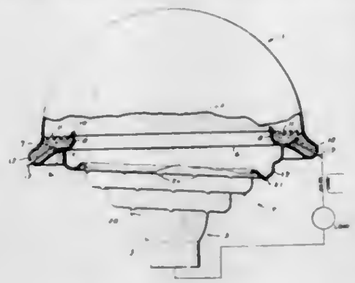
1. An image analyzing tube for transmitting successive lines of an image signal comprising an elongated control storage element, signal means to establish successive voltage charges along said control element corresponding with the image signal lines, an elongated secondary emissive electrode mounted in the field of influence of said control element and shielded from said signal means, an electron beam source directed toward said electrode, means for successively scanning said beam along said secondary emissive electrode to release secondary electrons whereby a cathode source under the influence of said field of influence is provided and means for collecting said released secondary electrons.

2,641,724
MERCURY RECTIFIER TUBE

Reuben S. Tice, Monterey, Calif., assignor of sixty-five per cent to George Hart, Pebble Beach, Calif.

Application March 7, 1950, Serial No. 148,075
13 Claims. (Cl. 313—170)

1. In a mercury rectifier tube having a hollow body; a pair of spaced pools of mercury supported within said body providing a cathode pool and an anode pool, said cathode pool being annular, means for supporting said cathode pool spaced around said anode pool with the level of said cathode pool above that of said anode pool, means for applying an electrical potential across

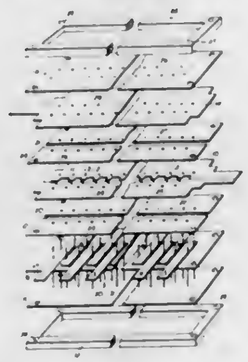


said pools for causing vaporization of mercury in the latter, said body including a condensing surface above said pools for condensing the vaporized mercury and means for conducting the mercury condensate to said annular cathode pool to fill the latter for overflow to said anode pool.

2,641,725
ELECTRONIC DISCHARGE TUBE

Emile Touraton and Camille Weill, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application July 10, 1951, Serial No. 235,914
In France June 30, 1950
4 Claims. (Cl. 313—193)

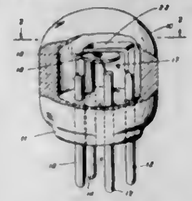


1. A gaseous discharge tube selectively responsive to the receipt of a series of successive impulses, comprising in combination, an enclosing envelope containing a filling of an ionizable gaseous medium, a plurality of discrete cathodes arranged in successive equally spaced array, an anode common to all said cathodes and equally spaced therefrom, a plurality of glow discharge transfer electrodes also arranged in successive array there being one such transfer electrode located between each pair of adjacent cathodes, a conductive shielding electrode located between said cathodes and said anode, said shielding electrode having a series of windows each aligned with a corresponding cathode to permit the passage of electrons between the corresponding cathode and said anode, each of said windows being constituted of two sections one of which is larger than the other and with the larger section registering with only a part of the area of the corresponding cathode the smaller section of each window being located closer to a preceding cathode than to a succeeding cathode to cause the glow discharge to be shifted in a predetermined direction to successive cathodes in response to successive impulses impressed on said transfer electrodes.

2,641,726
ELECTRON DISCHARGE DEVICE AND METHOD OF FABRICATION

Luther E. Cisne, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 7, 1950, Serial No. 154,575
9 Claims. (Cl. 313—249)

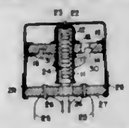


4. An electrode assembly for an electron discharge device comprising a plurality of lead-in wires, the internal end of one of said wires being flat and defining an anode, the internal end of another of said wires being a flat disc defining a control electrode, said disc having an aperture therein, the internal ends of two of said wires supporting a V-shaped filament, the ends of said filament extending laterally into the ends of said two wires, and a globule of emitting material supported at the apex of said V and extending into said aperture.

2,641,727
CATHODE INSULATOR

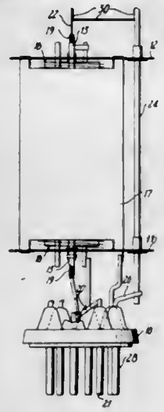
Eric Pohle, Clifton, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware

Application May 24, 1950, Serial No. 163,981
6 Claims. (Cl. 313—250)



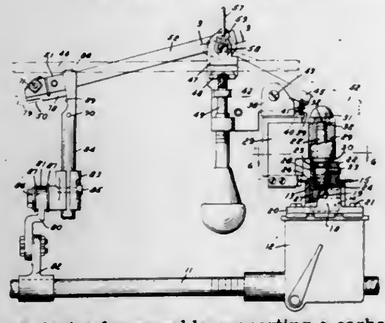
1. In a cathode ray tube comprising a tubular electron emitting hot cathode and a tubular cold grid electrode coaxial with and surrounding said cathode, an insulating disk having a surface substantially perpendicular to the axis of said tubular electrodes, said disk having a central aperture in which said cathode is secured, the outer periphery of said disk being secured to said tubular portion of said grid, a trough in said disk surrounding said central aperture and intermediate said central aperture and said periphery, the wall of said trough nearer to said central aperture being substantially parallel to the axis of said cathode cylindrical portion and facing said grid.

2,641,728
HEATER CONNECTOR
Bayard R. Corson, Fishkill, and A. V. Platter, Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 146,332
3 Claims. (Cl. 313—278)



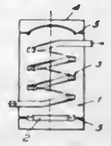
1. In a vacuum tube having a spiral heater element fixedly connected at one end; a first conductive member connected to the other end of said element and extending longitudinally therefrom; a ribbon shaped connector affixed at one end to said first member and extending substantially perpendicularly therefrom and rigidly affixed at its other end, the two faces of said ribbon shaped connector being in planes substantially coincidental with a plane formed by the transverse axis of said first member so that the expansion and contraction of said element caused by the heating and cooling thereof is substantially longitudinal with said first member because said ribbon shaped connector, due to its shape, offers the least resistance to the longitudinal movement of said first member.

2,641,729
CARBON HOLDER FOR ARC LAMPS
Harrison L. Cronkhite, Wyandotte, Mich.
Application June 16, 1951, Serial No. 232,011
16 Claims. (Cl. 314—4)



1. A device for movably supporting a carbon to be first burned and a main carbon, of the type wherein said main carbon is retained in an assembly carried by a support for pivotal movement about an axis transverse to the path of movement of said device, said carbon to be first burned is retained in a projecting holder carried by said assembly for pivotal movement about an axis transverse to the path of movement of said device, and said carbons are successively positioned in the arc of a lamp by a stationary supporting member located in the path of movement of said device; characterized by said projecting holder including a supporting arm, a carbon clamping element positioned laterally thereon, said supporting arm being pivotally connected to said main carbon retaining assembly in lateral relationship to said stationary supporting member for noninterfering movement relative thereto.

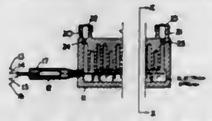
2,641,730
VELOCITY MODULATION AMPLIFIER TUBE
Emile Touraton, André Piquet, and Claude Dumousseau, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 7, 1947, Serial No. 778,361
In France August 21, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires August 21, 1966
1 Claim. (Cl. 315—3)



An amplifier of the velocity modulated type comprising a tubular envelope, an annular cathode within said envelope, an annular focussing electrode adjacent said cathode forming an electron gun therewith for producing an annular electron beam, a target electrode in the path of said electron beam, and a helical wave guide positioned between said electron gun and said target electrode, said wave guide helix having an inside diameter less than the diameter of said annular beam and an outside diameter greater than the diameter of said electron beam, said wave guide having a helical slot throughout its length, the diameter of the slot helix being substantially the diameter of said annular beam whereby said beam may pass through said slot throughout the length of said wave guide, said wave guide being open at both ends for the application of waves to be amplified at the end adjacent said cathode, and for the collection of the applied waves at the end adjacent said target electrode, said wave guide helix having a pitch such that electrons of said beam take substantially the same time passing from one turn to the next adjacent turn as said waves to be amplified in passing around a single turn.

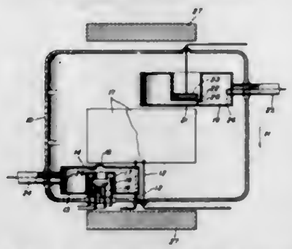
2,641,731
WAVE PROPAGATING ELECTRON DISCHARGE DEVICE
Albert Walter Lines, Stratford-on-Avon, England, assignor, by mesne assignments, to English Electric Valve Company Limited, London, England, a corporation of England
Application September 27, 1948, Serial No. 51,439
In Great Britain October 6, 1947
7 Claims. (Cl. 315—4)

1. An electromagnetic wave propagating structure adapted to support an electromagnetic wave having a phase velocity less than the free-space velocity of propagation, said structure comprising a conductive boundary surface formed with a series of resonators distributed



along its length, the spacing between successive resonators being varied according to a cyclically repeated pattern including at least three resonators and three spaces between resonators in each cycle of the pattern.

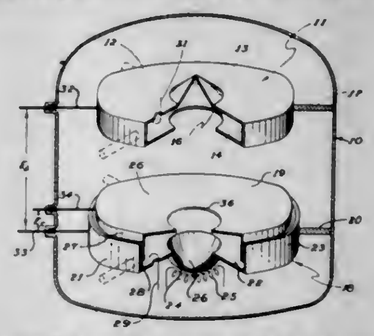
2,641,732
ELECTRON DISCHARGE DEVICE OF THE VELOCITY VARIATION TYPE
William G. Shepherd, St. Paul, Minn., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 1, 1949, Serial No. 78,924
4 Claims. (Cl. 315—6)



1. An electron discharge device comprising a cavity resonator having a rectangular inlet aperture in one wall thereof, an electron gun laterally offset with respect to said resonator for projecting a cylindrical electron stream in the direction substantially normal to said wall, means adjacent said gun for velocity varying said stream, and means for converting the cylindrical velocity varied stream into a density varied line focus stream at said aperture comprising means for producing crossed magnetic and electric fields in the region between said aperture and said velocity varying means, the magnetic field being parallel to said direction of projection of said cylindrical stream.

2,641,733
HIGH-FREQUENCY TUBE
Donald B. Harris and Ralph L. McCreary, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application January 8, 1951, Serial No. 204,882
2 Claims. (Cl. 315—6)

1. A high frequency electronic device comprising, an evacuated envelope, an anode structure wholly within and supported by said envelope, a cathode structure supported within said envelope in axial alignment with said anode, said anode comprising a relatively short hollow cylindrical member, one end wall of said hollow cylindrical member formed with a central opening, said cathode comprising, a pair of discs with short peripheral flanges, the flange of one of said discs mounted telescopically within the flange of the other disc, said discs being spaced remote from each other, said flanges telescopically overlapping each other, and the first of said discs



formed with a central opening in axial alignment with said anode.

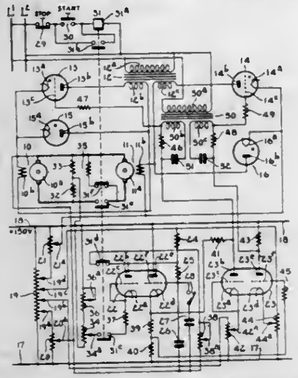
2,641,734
MICROWAVE DEVICE
David H. Sloan, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application September 3, 1947, Serial No. 771,852
13 Claims. (Cl. 315—39)

1. In a combination with a microwave device, a cavity resonator having a transverse dimension greater than the wave length at which it operates and means spaced substantially an integral number of half wavelengths from the axis of said resonator for exciting electrical oscillations therein, said resonator having formed therein a plurality of substantially radial slots to intersect the currents of parasitic modes of oscillation of the resonator as a whole.

2,641,735
ELECTRONIC MOTOR CONTROL SYSTEM
William H. Elliot, Whitefish Bay, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 12, 1949, Serial No. 132,493
8 Claims. (Cl. 318—141)

1. The combination with an electron tube connected to an alternating current supply source and having a control electrode for regulation of its rectified output, of means for subjecting said

control electrode to an alternating potential out of phase with the anode potential of said tube, a constant voltage source, a capacitor, means including a resistor connected in circuit with said capacitor constantly acting to charge the latter with a current derived from said constant voltage source, a normally active discharge path for said capacitor, means operable to interrupt said



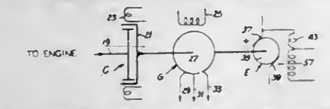
discharge path, means in circuit with said capacitor and acting when said discharge path is interrupted to limit the maximum potential to which said capacitor is charged, and means in circuit with said constant voltage source and supplying said control electrode with a unidirectional potential varying in magnitude with the potential of said capacitor.

2,641,736

GENERATOR CONTROLLED MOTOR SYSTEM

Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware

Application May 7, 1951, Serial No. 224,877
18 Claims. (Cl. 318—148)



1. In combination, an A. C. motor normally adapted to be supplied with electrical power of a predetermined frequency, an A. C. generator supplying electrical power to said motor, an electrically-controlled slip coupling through which the generator is driven, said coupling having a field coil controlling its slip, said A. C. generator having a D. C. field coil, a D. C. generator driven by the coupling and connected to excite the field coils of the A. C. generator and coupling, and a current regulator responsive to the voltage of the D. C. generator connected between the D. C. generator and the field coil of the coupling, said current regulator being adapted to reduce the excitation of the field coil of the coupling when the speed of the main generator tends to exceed a value at which the frequency of the main generator output exceeds the predetermined frequency for which the A. C. motor is adapted normally to operate.

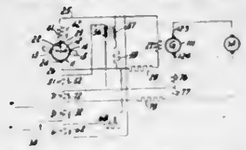
11. Generating apparatus comprising a generator adapted to supply electric power to a load, an electrically controlled slip coupling through which the generator is driven, said coupling having a field coil controlling its slip, a slip regulating control including speed-responsive means for varying the field excitation of the field coil of the coupling, an underspeed-protection control including switch means responsive to the generator speed adapted to disconnect the generator from its load when the speed of the generator falls below a predetermined value, and an overspeed-protection control including switch means responsive to the generator speed adapted to deenergize the field coil of the coupling when the speed of the generator is increased above a predetermined value.

2,641,737

DYNAMOELECTRIC MACHINE

Luther E. Blanchett, South Milwaukee, and Charles L. Steffen, Milwaukee, Wis., assignors to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application July 9, 1948, Serial No. 37,743
4 Claims. (Cl. 322—19)



1. In a dynamoelectric machine, including a main generator and an amplidyne exciter therefor, the combination of: a stator for said amplidyne; a rotor for said amplidyne, having a commutator; a pair of substantially short-circuited primary brushes adapted to provide a primary circuit through said amplidyne rotor; a pair of secondary brushes electrically displaced from said primary brushes; a separate field winding for said main generator; a secondary circuit through said amplidyne rotor containing said secondary brushes and said separate field winding; an independently excited control field winding on said stator for controlling the secondary characteristics of said amplidyne and having when excited a component of excitation along substantially the same axis and in opposition to the armature reaction excitation of electric current in said secondary circuit; a compensating field winding on said stator having when excited a component of excitation responsive to electric current in said secondary circuit and along substantially the same axis and in opposition to said armature reaction excitation; and a shunt-connected winding on said stator connected in shunt relationship to said separate field winding and having whenever the control field winding is excited a component of excitation responsive to and substantially in phase with the voltage across said separate field winding and normally in substantially the same direction as the excitation component of the control field winding.

2,641,738

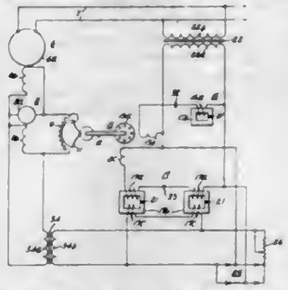
ELECTRIC REGULATOR RESPONSIVE TO PHASE DIFFERENCE OF TWO CURRENTS

Daniel J. Sikorra, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application January 20, 1951, Serial No. 207,011
9 Claims. (Cl. 323—66)

1. In a system for maintaining a quantity substantially constant at a predetermined value, the combination of regulating means including a motor for controlling the magnitude of said quantity, said motor comprising a first field coil and a second field coil, a linear reactor connected in

series with said first field coil to form a first circuit, a saturable reactor having a reactance winding and a control winding, means connecting said reactance winding in series with said second field coil to form a second circuit, a source of alternating current for energizing said first and second circuits, the relative phase of the currents in said first and second circuits determining the direction of rotation of said motor, and means connected to said control winding for



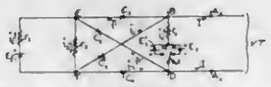
impressing on said control winding a unidirectional voltage proportional to the magnitude of said quantity to cause the saturation of said saturable reactor to vary in response to variations in the magnitude of said quantity, whereby said motor rotates in the one or the other direction in response to variations in said quantity from said predetermined value to maintain said quantity substantially constant at said predetermined value.

2,641,739

VOLTAGE CONTROLLER

Raymond Jacques Charles Roquet, Paris, France

Application July 28, 1948, Serial No. 41,289
In France August 27, 1947
8 Claims. (Cl. 323—75)



1. Voltage reversing and regulating device for applying a direct-current voltage to the input terminals of a working circuit of resistance having a value R, in a direction reversible at will, and for maintaining this voltage constant in absolute value irrespective of its direction of application, said device comprising a source of standard direct current voltage of value e_1, a plurality of auxiliary sources of direct-current voltage average of value e_2 but whose actual voltage may appreciably differ from e_2, a connecting-circuit for connecting one selected at will of said auxiliary sources of average voltage e_2 on one side directly to one of the terminals of above-said working circuit and on the other side to one of the terminals of a second resistance of value r_3, the first terminal of which is connected to the second terminal of said working circuit, a circuit arranged in a Wheatstone bridge having each of its arms constituted by an element of a symmetrical electric conductivity connected in such a direction that current flow through an external circuit connected to a first pair of arm junction points of said Wheatstone bridge is possible only in one direction, the second pair of arm junction points of said Wheatstone bridge being connected to said working circuit, a second resistance connected to said first pair of arm junction points of said Wheatstone bridge and electrical connections for connecting the said standard source to said first pair of arm junction points of said Wheatstone bridge in such a direction that current from said standard source cannot flow through said bridge, above-said voltages and resistance values being chosen so as to fulfill the condition:

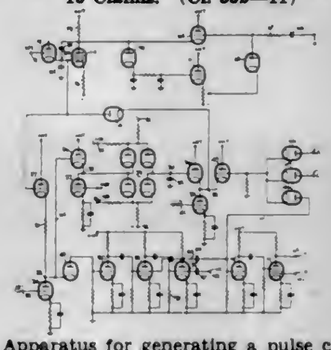
$$e_1R(r_2+r_3)+e_1r_2r_3=e_2Rr_3$$

2,641,740

ELECTRICAL PULSE CODE SIGNALING SYSTEM

Maurice Moise Levy, London, England, assignor to The General Electric Company Limited, London, England

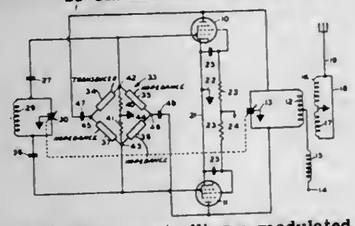
Application December 21, 1950, Serial No. 201,928
In Great Britain December 23, 1949
13 Claims. (Cl. 332—11)



1. Apparatus for generating a pulse code signal representative of a voltage level with respect to a datum level, comprising means for repeatedly generating a pulse cycle comprising a first train of pulses of progressively decreasing amplitude followed at least by a second similar train of pulses of progressively decreasing amplitude, the ratio of the amplitude of each pulse in each train to the amplitude of the next preceding pulse in the same train being substantially constant and the length of each train being at most one half of the time between successive voltage levels to be coded, means for subtracting the peak voltages of successive pulses in said first train from a succession of voltage values to produce resultant voltages respectively, the first of said voltage values being the said voltage level and each of the remaining voltage values being that obtained in the nearest preceding subtraction in which the resultant voltage value is of the same sign as the said voltage level with respect to the datum level and in which a last resultant voltage remains after subtraction of the voltage corresponding to the final pulse of the train, means to amplify by a predetermined factor the difference between the last resultant voltage and the datum level and means for subtracting the peak voltages of successive pulses in said second train from a succession of voltage values to produce resultant voltages respectively, the first of said voltage values being the amplified last resultant voltage and each of the remaining voltage values being that obtained in the nearest preceding subtraction in which the resultant voltage is of the same sign as the amplified last resultant voltage with respect to the datum level and means for generating pulse signal elements which correspond one to each of the pulses in each pulse cycle and distinguish between those pulses in the pulse cycle which

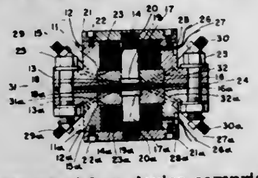
gave rise to resultant voltages of the same sign as the said voltage level and the amplified last resultant voltage with respect to the datum level and those which gave rise to resultant voltages of the opposite sign.

2,641,741
CRYSTAL CONTROLLED MODULATED OSCILLATOR
Glen Peterson, Tulsa, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 21, 1949, Serial No. 77,658
15 Claims. (Cl. 332—26)



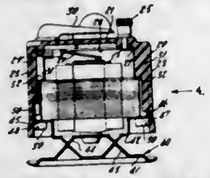
1. A circuit for controlling a modulated oscillator which comprises, in combination, a radio frequency amplifier having an input circuit and an output circuit, a null-type network including a transducer for converting seismic waves into impedance variations representative thereof, means including a piezo-electrical crystal, and a variable impedance connected in circuit with said transducer to form a null-type network, means for feeding the output of said network to the input circuit of said amplifier, and means for feeding back a portion of the amplifier output to the input of said network.

2,641,742
PRESSURE PICKUP
Charles M. Wolfe, Glendora, and John E. Miller, Altadena, Calif., assignors, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio
Application September 20, 1948, Serial No. 50,048
8 Claims. (Cl. 336—30)



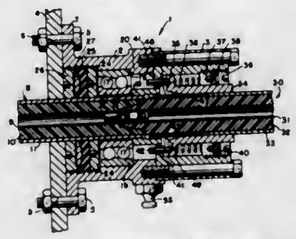
1. A pressure pickup device comprising a pair of oppositely disposed housings, each of said housings having a peripheral surface, said surfaces being plane and facing each other, a diaphragm having its peripheral portion secured between said plane facing surfaces, the housings and diaphragm being of magnetic material, each of said housings having a core of magnetic material forming with the housing a magnetic path, each core having its longitudinal axis extending substantially perpendicular to the diaphragm and leaving a gap between the core and the diaphragm, a coil around each core, and a non-magnetic annular element at the end of each housing adjacent the diaphragm and lying between the core and the periphery of the housing and providing fluid-tight junction with the core and the housing, each of said annular elements being dished to provide relief from the diaphragm and acting as diaphragm stops, and a fluid conduit means leading from outside the device into the space at each side of the diaphragm, whereby the diaphragm deflects in accordance with the difference of pressure on the two sides of the diaphragm.

2,641,743
TRANSFORMER
Joseph L. Bonanno, Madison, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application July 26, 1949, Serial No. 106,860
3 Claims. (Cl. 336—90)



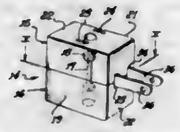
1. A variable voltage step-down transformer having a preassembled voltage reducing unit with rectangular magnetizable field structure, primary winding, and secondary winding, part of the latter winding having an upper exposed contact face, a housing unit in the form of a downwardly opening molded insulating body closed at the top and having guide members to slidably receive the field structure and position it in the housing; and stops to space the contact face of the secondary below the top of the housing, a pivoted contact arm secured to the under face of the insulating body and bearing on the face of the secondary winding, an arm operating finger secured to the contact arm and disposed above the top of the insulating body, two binding posts carried by the top of the body, a fixed conducting strap extending from one binding post to the arm pivot; a wire connecting the other binding post with the secondary winding; and a metal base secured to the housing, the base engaging the bottom of the core to hold it against the stops.

2,641,744
COUPLING DEVICE FOR RELATIVELY ROTATABLE COAXIAL CABLES
David C. de Packh, United States Navy, and James E. Pugh, Jr., Washington, D. C.
Application May 11, 1945, Serial No. 593,175
7 Claims. (Cl. 339—8)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a coupling device for electrically connecting a coaxial transmission line to a relatively rotatable coaxial transmission line, a coupling housing, a collar mounted on one end of one coaxial transmission line and supported in said housing, a second collar mounted on an opposed end of the relatively rotatable transmission line and rotatably supported in said housing, means carried by said first collar for urging the associated transmission line into engagement with the end of the rotatable coaxial transmission line, means carried by said first collar and engageable with said housing to prevent rotation of said first transmission line, a sleeve carried by said collar, the forward portion of said sleeve engaging the inner side of said second collar to electrically connect the outer conductors of said transmission lines, and a plug of electrically conductive material having its rear portion mounted in the inner conductor of said non-rotatable line and its forward portion extending into and engaging the inner conductor of said rotatable transmission line.

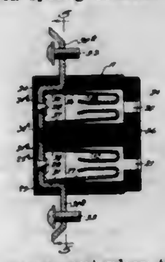
2,641,745
MULTIPLE OUTLET CONNECTOR
Glen Harpster, Los Angeles, Calif.
Application October 10, 1949, Serial No. 120,469
4 Claims. (Cl. 339—159)



1. A multiple outlet electrical plug comprising: a body of dielectric material, said body having a pair of parallel end surfaces and a plurality of angularly related substantially flat sides in planes perpendicular to said end surfaces; a pair of spaced recesses in the body, said recesses lying in planes parallel to the end surfaces and perpendicular to the planes of said sides, each of said recesses including opposing wall faces of dielectric body material; a pair of identical, slightly convex, disk-shaped unitary electrical distributors of resilient metal in said recesses, each distributor having a continuous peripheral portion and a plurality of integrally formed, resilient fingers extending inwardly therefrom, said fingers being slightly inclined to the plane of the recess, each said distributor having a surface area virtually equal to that of its housing recess and afforded a limited axial movement therein; and a pair of parallel prong-receiving apertures in each side of the body, each of said apertures being in communication with one of the recesses and arranged to guide a prong into sliding contact with one of said resilient fingers, all of said apertures lying in a pair of spaced, parallel planes, each of said last-named planes passing substantially through the middle of the recess in communication with the apertures in such plane.

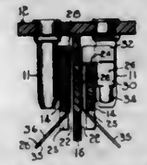
2,641,746
PLUG-IN ELECTRICAL RECEPTACLE
Walter P. Keller, Chicago, Ill.
Application June 28, 1949, Serial No. 101,838
4 Claims. (Cl. 339—191)

1. A receptacle for a prong-type plug comprising a base member provided with a recess, a spring contact member adapted to receive in spring engagement a prong of said plug, said contact member being formed for entry in said recess and being provided with a pair of side extensions situated respectively on opposite sides of said contact member, and a cover member comprising a slot positioned over the recess to admit the prong to engagement with the contact member and being provided also with a foot adapted to enter the recess alongside the contact member, said spring contact member being



clamped against movement when the cover member and base member are fitted together by the pressure of the foot on one of said side extensions and by the pressure of the rim of the cover member on the other of said side extensions.

2,641,747
ELECTRICAL CONNECTOR
Bengt J. Johanson, Chicago, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application January 14, 1949, Serial No. 70,861
3 Claims. (Cl. 339—192)

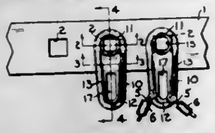


1. A multiple jack and plug assembly, comprising an insulating back plate and an insulating jack support plate assembled in spaced relation thereto, said support plate having notched portions in the edge thereof, and a plurality of plug-receiving jacks assembled with the plates, each jack comprising a flat base adapted to be assembled between the plates, a pair of supporting arms extending outwardly from the upper portion of the base, a pair of plug-receiving contact members depending from the supporting arms, said contact members being spaced laterally from the base and receiving a section of the support plate therebetween, said supporting arms being disposed to rest in the notched portion of the supporting plate, an a tail portion attached to the lower portion of the base, said tail being disposed at an angle to the plane of the base immediately below the supporting plate, to engage another edge of the plate and retain the jack in assembled relation with the plate.

2,641,748
SOLDERING LUG
Arthur C. Peters, Midlothian, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application May 10, 1949, Serial No. 92,263
2 Claims. (Cl. 339—277)

1. A soldering lug for electrically connecting a plurality of electrical conductors comprising an elongated body of thin sheet metal having opposite head and tail portions and provided with a peripheral convexed rim, an integral tubular eyelet drawn from said head portion and extending

perpendicularly thereto, and provided with an upsettable terminal end portion for securing said lug to a support, the outer peripheral edge of said convexed rim being downturned below the plane



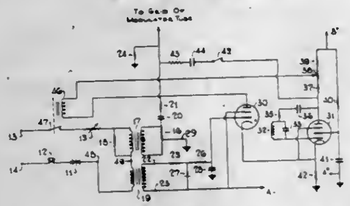
of said body to provide a support biting edge, and said tail portion being apertured between opposite side portions of said convexed rim and providing a conductor-receiving loop.

2,641,749

TIME BREAK RECORDING IN SEISMIC PROSPECTING

Franklin L. Lawrence, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 15, 1951, Serial No. 261,901
7 Claims. (Cl. 340—15)



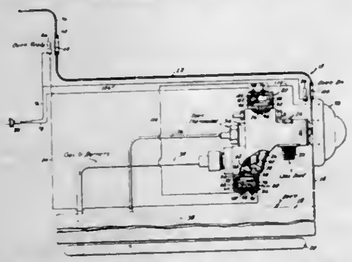
1. In combination, a firing circuit for an explosive charge, a source of current for said circuit, a signal source, means adding a pulse of selected polarity to said signal source upon closing of said firing circuit and a pulse of opposite polarity to said signal source upon opening of said firing circuit when said explosive charge detonates, auxiliary switch means in series with said firing circuit and means acting to open said auxiliary switch means upon generation of said pulse of opposite polarity.

2,641,750

INDICATOR SYSTEM FOR GAS HEATED APPLIANCES

Vincent J. Evans, Lakewood, Ohio, assignor to The Wilcolator Company, Elizabeth, N. J., a corporation of Delaware

Application January 27, 1951, Serial No. 208,171
4 Claims. (Cl. 340—222)



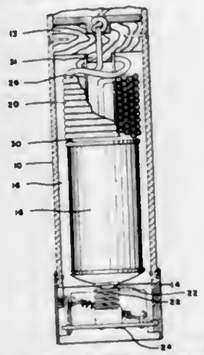
1. A gas heated appliance comprising a gas heating means, a thermostat including a control valve for regulating the supply of gas to the heating means in response to changes in the temperature of the appliance, an electrical "ready" indicating means for indicating when the appliance is heated to a predetermined temperature set by the thermostat, a first pressure switch responsive to changes in gas pressure for controlling the supply of electric current to the "ready" indicating means, said switch including a switch closing member normally biased to closed position, means for conducting gas from the downstream side of said control valve to said pressure switch to move said member to open position, a second pressure switch responsive to changes in gas pressure and having a switch closing member biased to open position, means for supplying current from the second switch to the first switch, and means for conducting gas from the upstream side of said control valve to said second switch to move its closing member to closed position, whereby closing of said valve by the thermostat reduces the gas pressure on said first pressure switch permitting its switch closing member to move to closed position and thereby actuate said indicating means.

2,641,751

HYDROPHONE CASING

Russell I. Mason, New London, John F. Ripken, Waterford, and Hector F. Bernier, Jr., Danielson, Conn., assignors to the United States of America as represented by the Secretary of the Navy

Application May 11, 1944, Serial No. 535,170
6 Claims. (Cl. 340—8)



1. A fluid tight casing releasably carried within a chamber immersible in a fluid medium, said casing having a closure cap, a suspension cable in said chamber having one end secured to a portion of the chamber, a tube upstanding from the casing providing means on which the cable is coiled, means projecting from the cap by which the tube is affixed to the cap and through which the other end of the cable is guided to the interior of the casing, and elastic means tight around the cable and compressibly engaging in the projecting means to make a fluid tight coupling between the projecting means and said cable.

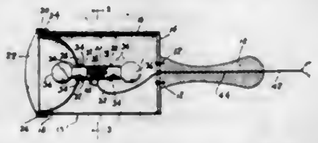
2,641,752

SPOTLIGHT AND FLARE FOR AUTOMOTIVE VEHICLES

Nicholas M. Naymik, Cleveland, Ohio

Application August 8, 1952, Serial No. 303,305
5 Claims. (Cl. 340—321)

1. A combined spotlight and flare for automotive vehicles comprising: a casing having a translucent cylindrical side wall; a reflector closing one end of the casing; a bulb mounted in the reflector to cast its beams through said end of the



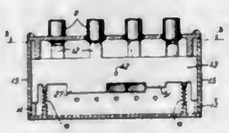
casing; a second bulb mounted in the casing between the reflector and the other end thereof; and means for connecting said bulbs in circuit with the battery of an automotive vehicle.

2,641,753

PHOTOELECTRIC KEYBOARD

Walter S. Oliwa, Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application July 14, 1951, Serial No. 236,840
15 Claims. (Cl. 340—345)



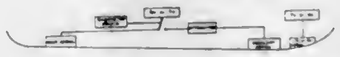
1. A keyboard coding unit comprising means to create a plurality of light beams, a phototube controlled by each beam, key operated means for selectively affecting the control by certain of said beams on their phototubes, and for affecting the control by a pair of said beams on their phototubes, one beam of said pair being affected subsequent to all others, an amplifier associated with each phototube, a series of coincidence gates having a common output and each prepared for operation by the amplifier associated with one of said certain beams, pulse generating means for pulsing the gates seriatim, the prepared gates being operated thereby, a stable trigger pair set by the amplifier associated with the first affected beam of said pair and reset by the amplifier associated with the subsequently operated beam of the pair, and means operated by the resetting action of the trigger pair to initiate an operation of said pulse generator.

2,641,754

TERRAIN CLEARANCE INDICATOR

John Ernest Clegg, Malvern, England, assignor to National Research Development Corporation, London, England, a British corporation

Application February 26, 1948, Serial No. 11,068
In Great Britain April 12, 1946
11 Claims. (Cl. 343—12)



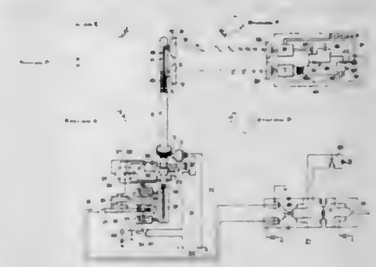
1. Radio distance-measuring apparatus comprising a transmitter having an aerial, arranged to radiate a modulated radio-frequency wave, a receiver having an aerial to receive waves reflected from objects whose distance from the apparatus is to be measured, means adapted continuously to compare the phase of a modulation-frequency component of reflected waves with the phase of modulating oscillations derived directly from the transmitter, display means for indicating the magnitude of the phase difference, said aerials being spaced apart and having a narrow beam of radiation in their direction of separation, the spacing being such that at the receiver aerial a preponderance of reflected waves over leakage waves arriving directly from the transmitter within a range of distance corresponding to a change of phase of said modulation-frequency component by at least a substantial fraction of 360°, said radio-frequency wave being modulated by at least two modulating oscillations of different frequencies, a plurality of display means operating in dependence on the phase of different modulation frequency, said radio-frequency wave being frequency modulated by one of said modulating oscillations and amplitude modulated by another.

2,641,755

SHORT-WAVE DIRECTIONAL RADIO COMMUNICATION SYSTEM

Everhard H. B. Bartelink, Bronxville, N. Y., assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application November 22, 1950, Serial No. 197,101
20 Claims. (Cl. 343—100)



1. A short-wave radio communication system comprising a central office and a plurality of stations remotely disposed thereabout, each equipped with radio transmitter and receiver; a directional antenna system rotatably mounted at the central office to scan said stations successively during rotation; means for continuously rotating said antenna preparatory to the transmission of a carrier wave from one of said stations; and means at said central office responsive to a carrier wave transmitted from any one of said stations for arresting said antenna rotation, with the antenna pointing toward said station, and for thereafter releasing said antenna to continue said continuous rotation upon cessation of said carrier wave.

2,641,756

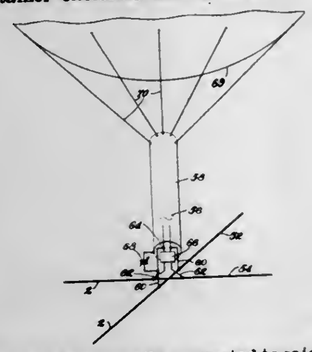
ANTENNA SYSTEM

Sven H. M. Dodington, Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware

Application March 26, 1943, Serial No. 480,604
3 Claims. (Cl. 343—100)

1. In combination, a radiator adapted to radiate substantially horizontally polarized waves, an

oscillation generator, said generator being connected to said radiator for energizing same, and a container enclosing said generator, said container being electrically connected to said radiator and together therewith being adapted to radiate vertically polarized waves.

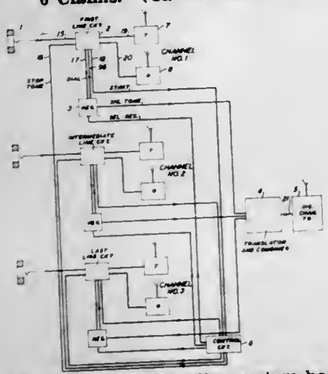


2,641,757

AUTOMATIC MULTICHANNEL SELECTION

Daniel F. Hoth, Millburn, N. J., and Robert O. Soffel, Hastings on Hudson, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 17, 1950, Serial No. 162,516
6 Claims. (Cl. 343—177)



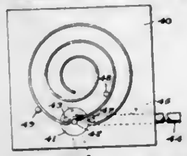
3. A radiant energy signaling system having a plurality of radiant energy signaling channels allotted thereto for the transmission of carrier waves, said system including a signaling station comprising in combination a plurality of transmitting means each operable to radiate carrier energy over a respectively different one of said channels continuously, a plurality of line circuits each extending to a respectively different one of said transmitting means, each of said line circuits including a tone circuit having a source of idle tone normally connected thereover to the associated transmitting means for modulating its carrier energy, a single source of stop tone, a plurality of connecting circuits extending from said stop tone source to each of said line circuits, each of said line circuits having control means for conditioning it for the transmission of intelligence signals to the associated transmitting means for modulation of its carrier energy, and electroresponsive means in each of said line circuits responsive to the operation of the associated control means for disconnecting the associated idle tone source from the associated tone circuit and for substituting therefor said stop tone source.

2,641,758

SPRING COIL FOR CUSHIONS, MATTRESSES, AND THE LIKE

David I. Levine, Swampscott, Mass., assignor to Spring Unit Development Co., Lynn, Mass., a partnership

Application June 24, 1948, Serial No. 34,937
1 Claim. (Cl. 5—256)



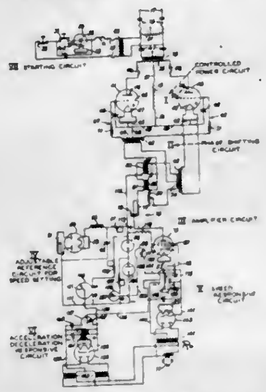
A double-cone coil spring constituting a length of conically wound wire terminating in end convolutions representing the bases of the cones, each end convolution having an inturned portion near the free end thereof and the free end knotted upon a spiral portion of the wire at a point substantially 360° removed from said inturned portion, and each end convolution having an S-shaped bend on the other side of the knot from the inturned portion but closely adjacent the knot, to prevent said knot from sliding outwardly on the spiral portion of the wire and the entire portion of each end convolution between its inturned portion and its S-shaped bend being of substantially uniform radius to form a substantially complete circle, said knot being positioned inwardly substantially an equal distance between both extremities of the main arc of the circle.

2,641,759

CONTROL APPARATUS FOR FLUCTUATING ELECTROMECHANICAL SYSTEMS

Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware

Application May 19, 1950, Serial No. 162,989
15 Claims. (Cl. 310—94)

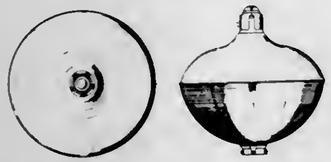


1. Electrical apparatus adapted to provide a corrective signal in an excitation control circuit for dynamoelectric machinery comprising rotary means driven by the machinery to be controlled by said circuit, said rotary means being adapted to provide a speed-responsive voltage, a first control network and a second control network responsive to said voltage, means in the first network comprising a first resistance adapted to produce a speed-responsive voltage component of said signal, means in the second network comprising a second resistance and a capacitor connected in series therewith adapted to produce a transient voltage component of said signal in response to change in voltage from the rotary means, the resistances in said first and second networks being connected in series in said control circuit.

DESIGNS

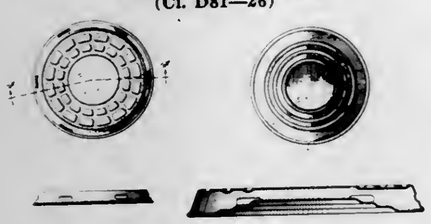
JUNE 9, 1953

169,798
LAMP FIXTURE
Allan Anthony, Maywood, Ill.
Application June 17, 1952, Serial No. 20,238
Term of patent 14 years
(Cl. D48—31)



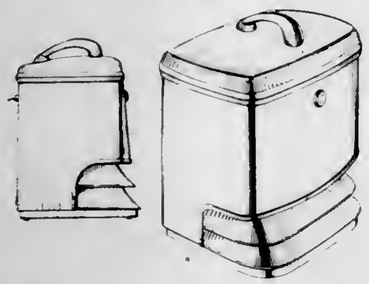
The ornamental design for a lamp fixture, substantially as shown.

169,799
FLAME PAD OR SIMILAR ARTICLE
Vincent Paul Bourne-Vanneck, New York, N. Y.
Application October 10, 1952, Serial No. 21,794
Term of patent 14 years
(Cl. D81—26)

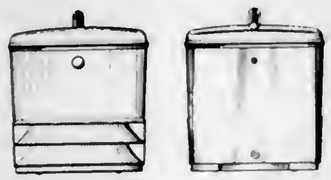


The ornamental design for a flame pad or similar article, as shown.

169,800
PORTABLE HOT-AIR HEATER
Charles R. Burgess, Detroit, Mich.
Application February 12, 1953, Serial No. 23,590
Term of patent 14 years
(Cl. D81—10)

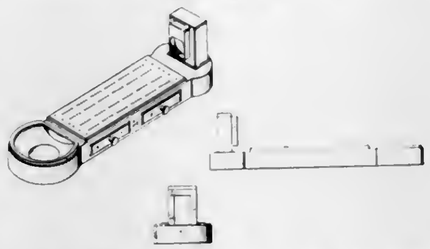


169,800—Continued



The ornamental design for a portable hot-air heater, as shown.

169,801
CRIBBAGE BOARD OR SIMILAR ARTICLE
Anthony V. Capodanno, North Attleboro, Mass.
Application January 26, 1953, Serial No. 23,295
Term of patent 14 years
(Cl. D34—5)



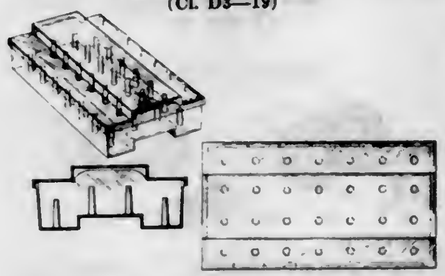
The ornamental design for a cribbage board or similar article, substantially as shown.

169,802
CANE-DOLL
Fern Carver, Chicago, Ill.
Application February 9, 1953, Serial No. 23,489
Term of patent 3½ years
(Cl. D34—4)



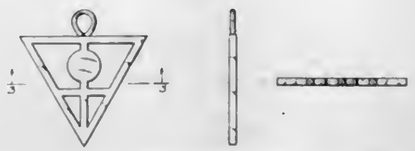
The ornamental design for a cane-doll, as shown.

169,803
SPOOL BOX
Walter H. Collins, Summit, N. J.
Application January 15, 1953, Serial No. 23,145
Term of patent 7 years
(Cl. D3—19)



The ornamental design for a spool box, substantially as shown.

169,804
PENDANT
Marindo De Stefano, Brooklyn, N. Y.
Application December 12, 1952, Serial No. 22,681
Term of patent 14 years
(Cl. D45—17)



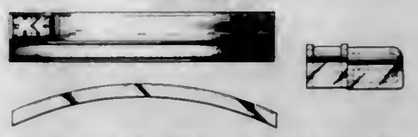
The ornamental design for a pendant, as shown.

169,805
UPHOLSTERED SOFA
Einer Eck, Peru, Ind.
Application September 19, 1952, Serial No. 21,526
Term of patent 3½ years
(Cl. D15—11)



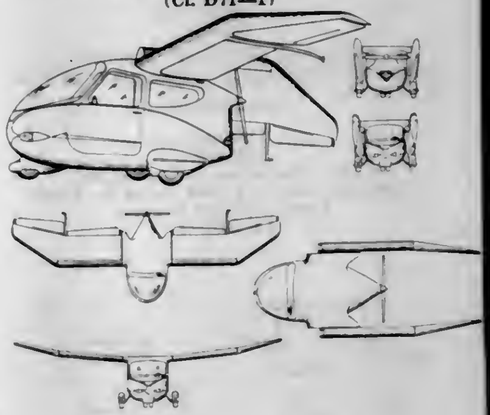
The ornamental design for an upholstered sofa, as shown and described.

169,806
BRACELET DISPLAY STAND
Armand J. Garreau, Newport, R. I.
Application June 14, 1951, Serial No. 15,537
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a bracelet display stand, as shown.

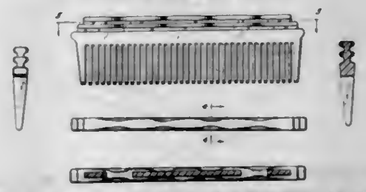
169,807
COMBINATION AUTOMOBILE-AIRPLANE
Adelard J. Gero, Jr., Taftville, Conn.
Application August 26, 1952, Serial No. 21,197
Term of patent 14 years
(Cl. D71—1)





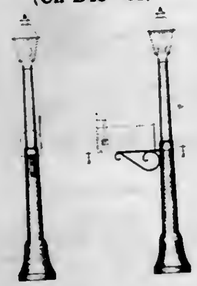
The ornamental design for a combination automobile-airplane, substantially as shown.

169,808
COMB
Harold Goldman, Bronx, N. Y.
Application February 19, 1953, Serial No. 23,697
Term of patent 14 years
(Cl. D86—8)



The ornamental design for a comb, as shown.

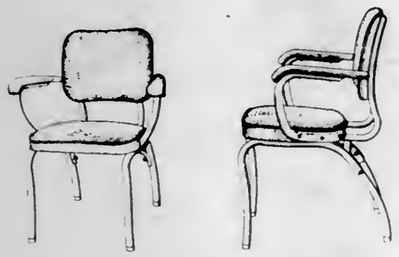
169,809
COMBINED LAMPPOST AND MAILBOX SUPPORT
John H. Hagen, Canton, Ohio
Application January 19, 1953, Serial No. 23,190
Term of patent 14 years
(Cl. D48—31)





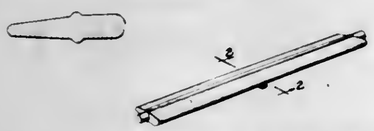
The ornamental design for a combined lamppost and mailbox support, substantially as shown and described.

169,810
CHAIR
Bertis F. Hamilton, Columbus, Ind.
Application August 2, 1952, Serial No. 20,883
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair, as shown.

169,811
LOUVER BOARD
Paul P. Heinley, Malibu, Calif.
Application June 23, 1952, Serial No. 20,315
Term of patent 14 years
(Cl. D21—6)



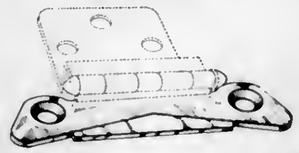
The ornamental design for a louver board, as shown and described.

169,812
COMBINED LUNCH BOX AND VACUUM BOTTLE UNIT
Paul Hellman, New York, N. Y.
Application March 26, 1952, Serial No. 19,057
Term of patent 7 years
(Cl. D58—2)



The ornamental design for a combined lunch box and vacuum bottle unit, as shown and described.

169,813
HINGE
Robert A. Jorgensen, Edmonds, Wash.
Application February 9, 1953, Serial No. 23,484
Term of patent 14 years
(Cl. D10—9)



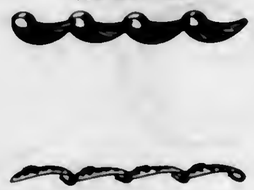
The ornamental design for a hinge, as shown and described.

169,814
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,538
Term of patent 7 years
(Cl. D45—16)



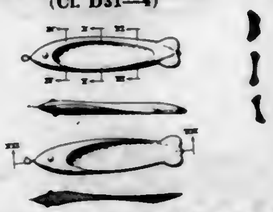
The ornamental design for a necklace or the like, substantially as shown and described.

169,815
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,540
Term of patent 7 years
(Cl. D45—16)



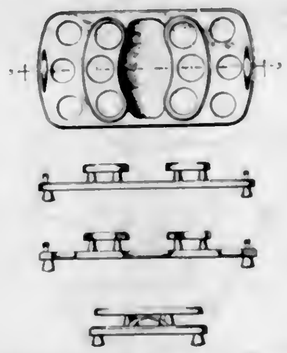
The ornamental design for a link chain for a necklace or the like, substantially as shown.

169,816
FISHING LURE
Fred Kirkman, Solana Beach, Calif.
Application March 16, 1953, Serial No. 24,036
Term of patent 14 years
(Cl. D31—4)



The ornamental design for a fishing lure, substantially as shown.

169,817
SERVING TRAY
Milton F. Klein, Glens Falls, N. Y., assignor to Jaxton Manufacturing Corporation, Glens Falls, N. Y., a corporation of New York
Application February 17, 1953, Serial No. 23,655
Term of patent 7 years
(Cl. D44—10)



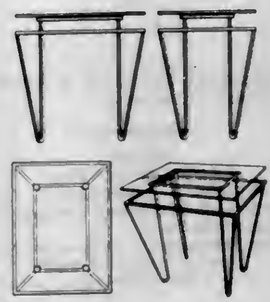
The ornamental design for a serving tray, as shown.

169,818
ADJUSTABLE CHAISE
Albert P. Krikorian, Agawam, Mass.
Application November 3, 1952, Serial No. 22,108
Term of patent 7 years
(Cl. D15—11)



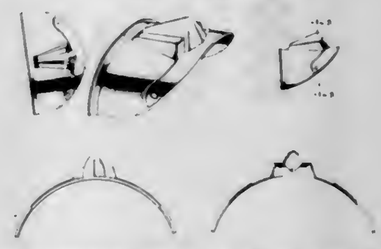
The ornamental design for an adjustable chaise, as shown and described.

169,819
TABLE
Earl R. Kupferer, St. Louis, Mo.
Application March 25, 1953, Serial No. 24,193
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table, as shown.

169,820
HEADLAMP VISOR
David Pattis, Chicago, Ill., assignor to Patt Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application February 4, 1953, Serial No. 23,447
Term of patent 7 years
(Cl. D48—32)



The ornamental design for a headlamp visor, as shown.

169,821
WOVEN PLASTIC FABRIC
Vaclav Petracek, Elmhurst, N. Y., assignor to Hafner Associates, Inc., New York, N. Y.
Application October 24, 1952, Serial No. 21,971
Term of patent 7 years
(Cl. D92—1)



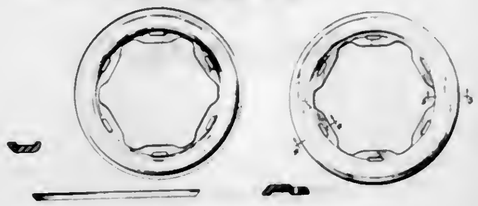
The ornamental design for a woven plastic fabric, substantially as shown.

169,822
LADY'S STOCKING
Melvin A. Rickert, Lambertville, N. J., assignor to Amwell Full Fashioned Hosiery Company, Inc., Lambertville, N. J.
Application February 27, 1953, Serial No. 23,813
Term of patent 14 years
(Cl. D47—7)



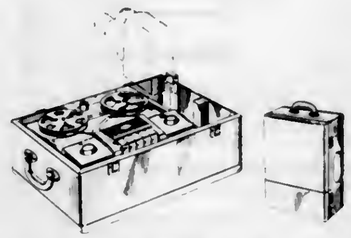
The ornamental design for a lady's stocking, as shown.

169,823
SKI POLE RING
Finn Ronne, Glen Echo, Md.
Application November 22, 1949, Serial No. 6,186
Term of patent 14 years
(Cl. D34—14)



The ornamental design for a ski pole ring, as shown.

169,824
AUDIO VISUAL UNIT
Luther M. Sandwick, New York, N. Y., assignor to Wilcox-Gay Corporation, Charlotte, Mich., a corporation of Michigan
Application December 30, 1952, Serial No. 22,917
Term of patent 14 years
(Cl. D26—14)



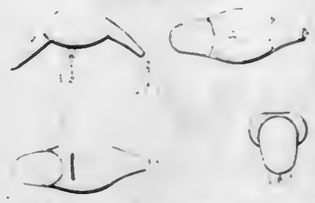
The ornamental design for an audio visual unit, as shown and described.

169,825
COMBINED MONEY CLIP AND STAMP HOLDER
Eugene Schildkraut, Great Neck, N. Y.
Application January 9, 1953, Serial No. 23,082
Term of patent 7 years
(Cl. D87—3)



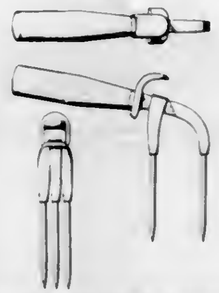
The ornamental design for a combined money clip and stamp holder, substantially as shown and described.

169,826
ARTIFICIAL FISH BAIT
George A. Schmidt, Southfield Township, Oakland County, Mich.
Application March 30, 1953, Serial No. 24,255
Term of patent 14 years
(Cl. D31—4)



The ornamental design for an artificial fish bait, as shown and described.

169,827
CARVING AID FORK
Joseph Schoenfeld, San Diego, Calif.
Application February 13, 1953, Serial No. 23,601
Term of patent 14 years
(Cl. D44—29)



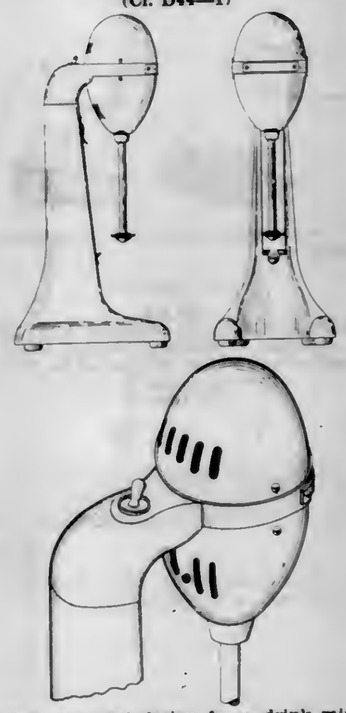
The ornamental design for a carving aid fork, as shown.

169,828
NECKLACE OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application January 27, 1953, Serial No. 23,310
Term of patent 3½ years
(Cl. D45—16)



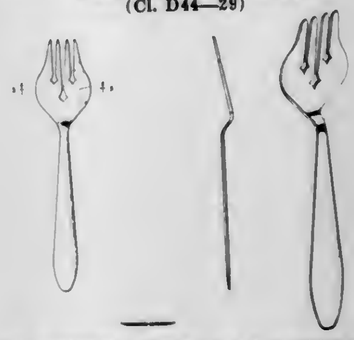
The ornamental design for a necklace or similar article, as shown.

169,829
DRINK MIXER
Arthur W. Seyfried and Peter W. Lahr, Racine, Wis.
Application December 6, 1952, Serial No. 22,590
Term of patent 14 years
(Cl. D44—1)



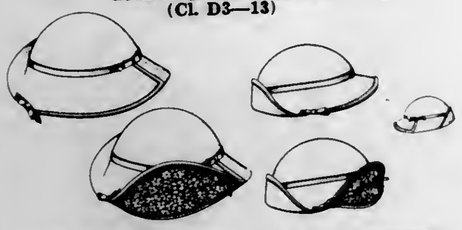
The ornamental design for a drink mixer, as shown and described.

169,830
COMBINED SALAD FORK AND KNIFE
Judy A. St. Clair, Fort Worth, Tex.
Application June 19, 1952, Serial No. 20,280
Term of patent 14 years
(Cl. D44—29)



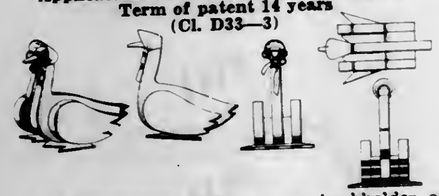
The ornamental design for a combined salad fork and knife, as shown.

169,831
HAT
Marianne Tuteur, New York, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application April 5, 1952, Serial No. 19,201
Term of patent 3½ years
(Cl. D3—13)



The ornamental design for a hat, substantially as shown.

169,832
BOOKHOLDER OR SIMILAR ARTICLE
Jefferson P. Waldrop, Jackson, Miss.
Application June 20, 1952, Serial No. 20,289
Term of patent 14 years
(Cl. D33—3)



The ornamental design for a bookholder or similar article, as shown.

169,833
COMBINED MANTEL ORNAMENT AND FLOWER HOLDER
William E. Young and Phyllis L. Young, Portland, Oreg.
Application June 10, 1952, Serial No. 20,110
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a combined mantel ornament and flower holder, substantially as shown.

June 16, 1953 Volume 671 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*
U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business May 29, 1953

Total number of patent applications awaiting action, 98,275. Date of oldest new application, August 18, 1952; date of oldest amended application, August 13, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
		5-25-53	1
*(C. E. D.) KEELY, J. E.	9-3-52	9-2-52	1461
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	9-29-52	9-16-52	1121
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	11-11-52	10-9-52	1042
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-12-52	9-11-52	1455
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	9-19-52	9-22-52	1010
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-18-52	8-13-52	2592
6. SURLE, H., Carbon Chemistry (part)	9-18-52	9-16-52	1559
7. GONSALVES, J. E., Optics; Photography (part)	9-15-52	9-13-52	1633
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	9-23-52	9-12-52	1251
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	9-26-52	9-26-52	1285
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	9-8-52	9-9-52	1145
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	9-8-52	9-7-52	1206
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	9-9-52	9-5-52	1274
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	9-22-52	9-18-52	1453
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	9-3-52	9-5-52	1695
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	9-12-52	9-12-52	1660
16. LOVEWELL, N. N., Television; Telephony; Recorders	9-16-52	9-15-52	1597
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	10-9-52	10-2-52	677
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-8-52	9-4-52	1155
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	9-24-52	9-25-52	1294
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	9-9-52	9-4-52	1269
21. MADER, R. C., Textiles	9-16-52	9-22-52	935
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	9-8-52	9-4-52	843
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	10-28-52	10-27-52	1074
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	9-4-52	9-2-52	1253
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	9-29-52	9-29-52	1833
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	9-11-52	9-4-52	1207
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	10-1-52	9-9-52	1092
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	9-12-52	9-11-52	1183
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	10-29-52	10-29-52	1327
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	8-30-52	9-1-52	2440
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	10-4-52	10-11-52	1258
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-16-52	9-15-52	1828
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	9-9-52	9-9-52	1197
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	10-23-52	10-16-52	1171
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	9-23-52	9-24-52	1086
36. McFADYEN, A. D., Measuring and Testing	9-30-52	9-27-52	1724
37. LEVY, M. L., Electricity-Switches, Welding, Heating	9-30-52	9-25-52	1504
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	11-19-52	11-10-52	1707
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	12-4-52	12-4-52	1007
40. DRUMMOND, E. J., Receptacles (part); Packages	10-13-52	10-8-52	1468
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.			

*Commissioner's Examiner's Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	9-16-52	9-15-52	1826
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	9-17-52	9-19-52	1735
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	10-7-52	10-8-52	1330
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	9-2-52	9-2-52	1073
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	9-4-52	9-4-52	1645
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	9-13-52	9-4-52	1860
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	9-27-52	9-23-52	1306
50. BENGEL, W. G., Synthetic Resins; Rubber	11-12-52	11-14-52	1560
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	9-8-52	9-8-52	1634
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	10-21-52	10-21-52	1862
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	9-26-52	9-27-52	970
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy, Applications.	9-15-52	9-5-52	1825
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	9-17-52	9-8-52	951
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	10-10-52	10-9-52	1253
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-25-52	10-17-52	1626
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	9-9-52	8-29-52	1393
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	10-1-52	9-29-52	1405
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	9-22-52	9-16-52	991
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	10-1-52	10-1-52	1165
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	9-8-52	9-4-52	1850
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	9-4-52	9-3-52	1800
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	9-18-52	9-16-52	831
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	10-1-52	9-26-52	1681
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	10-29-52	10-24-52	1390
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	9-25-52	9-24-52	1563
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	8-20-52	8-15-52	3287
DESIGNS: A—BREHM, G. L., Industrial Arts	1-30-53	1-30-53	861
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	2-2-53	2-9-53	728

Number of new applications received week ending May 15, 1953

PATENTS 1,488 DESIGNS 103 REISSUES 5 TOTAL 1,596

Total number of trade-mark applications awaiting action (including renewals and republications), 10,767. Date of oldest new application, January 2, 1953; date of oldest amended application, January 2, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	1-2-53	1-2-53	2531
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	1-21-53	1-15-53	2534
Renewals (All Classes)	4-1-53	5-1-53	608
Republications (All Classes)	4-6-53	4-28-53	335
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	1-19-53	1-21-53	2496
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-13-53	1-5-53	2263

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Aber Company Inc., The, Houston, Tex. Weather-proof coating composition. Serial No. 605,389, June 16. Class 16.

Adco, Inc., Sedalia, Mo. Dry-cleaning preparations. Serial No. 618,720, June 16. Class 52.

Admes S. A. R. L., Geneva, Switzerland. Automatic watches. Serial No. 611,748, June 16. Class 27.

Aktiebolaget Tetra Pak, Lund, Sweden. Package forming, filling, and sealing machines. Serial No. 623,384, June 16. Class 23.

Aktiebolaget Tetra Pak, Lund, Sweden. Package forming, filling, and sealing machines. Serial No. 623,386, June 16. Class 23.

Alan Record Co., Inc., Boston, Mass. Grooved phonograph records. Serial No. 636,401, June 16. Class 36.

Allied Van Lines, Inc., Broadview, Ill. Storage and packing of household goods and for the transportation of household goods. Serial No. 638,624, June 16. Class 105.

Alloy Steel and Metals Company, Los Angeles, Calif. Rock crushers, sheave blocks, sheave anchors, etc. Serial No. 605,829, June 16. Class 23.

Amco Athletic Apparel Corp., New York, N. Y. Men's, women's, boys', and girls' jackets. Serial No. 622,421, June 16. Class 39.

American Cyanamid Company, New York, N. Y. Clothing. Serial No. 625,183, June 16. Class 39.

American Federation of Technical Engineers, Washington, D. C. Blueprints and engineering drawings. Serial No. 627,027, June 16. Class 38.

American Field Seed Co.: *See*—
Berry Seed Company.

American Gem Society, Los Angeles, Calif. Repairing jewelry and mounting precious stones and gems. Serial No. 547,960, June 16. Class 103.

American Metallic Chemicals Corp., New York, N. Y., and Portland, Oreg. Manganese dioxide. Serial No. 635,734, June 16. Class 6.

American Radiator & Standard Sanitary Corporation, New York, N. Y. Plastic wall tile. Serial No. 632,348, June 16. Class 12.

American White Cross Laboratories, Inc., The, New Rochelle, N. Y. Surgical dressings, adhesive plasters, adhesive bandage, etc. Serial No. 613,316, June 16. Class 44.

Apex Tire & Rubber Co., Pawtucket, R. I. Plastic garden hose. Serial No. 640,663, June 16. Class 35.

Apothecaries Hall Co., Waterbury, Conn. Rust preventing phosphate coating. Serial No. 635,341, June 16. Class 16.

Arkansas Company Inc., Newark, N. J. Detergents, soaps, and scouring agents. Serial No. 627,663, June 16. Class 52.

Arlington Corporation, St. Paul, Minn. Metal platters and serving trays. Serial No. 636,872, June 16. Class 13.

Armco Mercantile Co., Chicago, Ill. Magnifying spectacles. Serial No. 639,608, June 16. Class 26.

Armour and Company, assignee: *See*—
Lookout Oil and Refining Company.

Atlanta Boat Works: *See*—
Turner, Claude H.

Atlantic Machine Tool Works, Inc., Newington, Conn. Manufacturing on a custom basis gages, jigs, fixtures, etc. Serial No. 620,186, June 16. Class 100.

Atlas Overall Company, Philadelphia, Pa. Men's and women's dungarees. Serial No. 577,016, June 16. Class 39.

Balatone, Cooke & Rayonese Limited, Manchester, England. Men's and boys' hats, scarves, coats, etc. Serial No. 627,786, June 16. Class 39.

Banton Corporation, The, New York, N. Y., and San Francisco, Calif. Hunters' gloves. Serial No. 641,491, June 16. Class 39.

Barr, W. M., & Company, Memphis, Tenn. Complete line of cleaning compounds. Serial No. 613,490, June 16. Class 52.

Barry, R. G., Corporation, Columbus, Ohio. Scuffs or slippers. Serial No. 607,920, June 16. Class 39.

Bates, R. W., Piece Dye Works, Inc., Garnerville, N. Y. Treating rayon and acetate suiting fabrics. Serial No. 637,697, June 16. Class 166.

Bausch & Lomb Optical Company, Rochester, N. Y. Eyeshields and goggles. Serial No. 636,508, June 16. Class 26.

Baxter Rubber Company, Newark, N. J. Hoses, packings, and diaphragms. Serial No. 639,101, June 16. Class 35.

Bee Chemical Company, Chicago, Ill. Strippable protective coating composition. Serial No. 619,378, June 16. Class 16.

Bell & Howell Company, Chicago, Ill. Sound accompanied motion picture projectors. Serial No. 639,614, June 16. Class 24.

Benmore Distilleries Limited, Glasgow, Scotland. Scotch whisky. Serial No. 633,295, June 16. Class 49.

Berry Seed Company, also doing business under the names Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa. Plant hormones combined with seed disinfectants and protectants. Serial No. 626,142, June 16. Class 10.

Bigren Limited, Greenford, England. Lubricating oil. Serial No. 630,827, June 16. Class 15.

Blue Ridge Pressure Castings, Inc., Lehighton, Pa. Metal die castings. Serial No. 623,932, June 16. Class 14.

Bona-Fido Dog Food Co.: *See*—
Cormier, Madeleine.

Borden Company, The, New York, N. Y. Cheese. Serial No. 639,551, June 16. Class 46.

Bowers Lighter Company, Kalamazoo, Mich. Pyrophoric pocket and table lighters, flints, and smoking pipe cleaners. Serial No. 630,308, June 16. Class 8.

Bridgeport Moulded Products, Inc., Fairfield, Conn. Drinking glass coasters, napkin holders, etc. Serial No. 629,834, June 16. Class 2.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Hypodermic syringe. Serial No. 629,347, June 16. Class 44.

Bryant Chemical Corporation, North Quincy, Mass. Liquid resin coating. Serial No. 622,799, June 16, 1953. Class 16.

Buck Engineering Company, Inc., Freehold, N. J. Vacuum tube testing and inspecting apparatus and instruments. Serial No. 604,355, June 16. Class 26.

Burl Laboratories, Inc., Beverly, N. J. Medicine as a relief for patients suffering from hay fever, etc. Serial No. 629,535, June 16. Class 18.

Butterworth System, Incorporated, Bayonne, N. J. Tank cleaning service and renting of machines. Serial No. 589,423, June 16. Class 103.

C & F Doll Fashions, Owensboro, Ky. Doll clothing. Serial No. 644,540, June 16. Class 22.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black used as an ingredient of protective and decorative coatings. Serial No. 623,400, June 16. Class 16.

Cahn, Bernard, Co. Inc., New York, N. Y. Wallets and purses. Serial Nn. 639,618, June 16. Class 3.

Cameto, Leon, doing business under the name and style of Production Foundry Company, Oakland, Calif. Surgical and medical body supports. Serial No. 627,320, June 16. Class 44.

Cannon Shoe Company, Baltimore, Md. Ladies' shoes. Serial No. 636,339, June 16. Class 39.

Capp, Theron E., Duncan, Okla. Binders for holding accounting forms and blank forms therefor. Serial No. 623,645, June 16. Class 37.

Carr & Day & Martin Limited, New Southgate, London, England. Saddle soap. Serial No. 618,228, June 16. Class 52.

Carson, Henry, Flushing, N. Y. Insecticides and household deodorants. Serial No. 629,284, June 16. Class 6.

Casual Sportswear Co. Inc., New York, N. Y. Men and women's slacks and trousers. Serial No. 632,242, June 16. Class 39.

Cavu Clothes, Inc., Cincinnati, Ohio. Clothing. Serial No. 639,263, June 16. Class 39.

Century Industries, Inc., Chicago, Ill. Picture, photograph, and mirror frames. Serial No. 616,278, June 16. Class 32.

Chalet, Inc., Dallas, Tex. Women's, misses', juniors', and children's dresses, suits, etc. Serial No. 617,188, June 16. Class 39.

Chi Psi Fraternity, Ann Arbor, Mich. Services rendered by the member chapters and members for male college students. Serial No. 561,802, June 16. Class 100.

Chun King Sales, Inc., Duluth, Minn. Chicken chow mein, chow mein noodles, bean sprouts, etc. Serial No. 636,340, June 16. Class 46.

Cincinnati Butchers' Supply Company, The, assignee: *See*—
Meat Packers Equipment, Inc.

City Stores Company, Philadelphia, Pa. Ladies' coats and suits. Serial No. 636,342, June 16. Class 39.

Cleaver, Albert M., Fontana, Calif. Plastic sealing and coating composition. Serial No. 635,251, June 16. Class 16.

College Inn Food Products Company, Chicago, Ill. Gin, anisette, and brandy. Serial No. 615,158, June 16. Class 49.

Commercial Solvents Corporation, New York, N. Y. Nitrogen solutions used as or in the production of soil fertilizers. Serial No. 627,930, June 16. Class 10.

Commonwealth Shoe and Leather Company, Whitman, Mass. Shoes. Serial No. 640,194, June 16. Class 39.

Continental Mills, Inc., Philadelphia, Pa. Men's, women's, boys', girls', children's, and infants' overcoats, topcoats, coats, etc. Serial No. 639,530, June 16. Class 39.

Cormier, Madeleine, doing business as Bona-Fido Dog Food Co., New York, N. Y. Canned dog food. Serial No. 636,345, June 16. Class 46.

Corn Products Refining Company, New York, N. Y. Polysaccharide, glucuronolactone, sodium glucuronate, etc. Serial No. 627,117, June 16. Class 6.

Corn Products Refining Company, New York, N. Y. Glucuronolactone, sodium glucuronate and potassium glucuronate for use in the treatment of rheumatoid and other froms of arthritis, etc. Serial No. 627,118, June 16. Class 18.

Country Distillers: *See*—
Foster Trading Corporation, The.

Craftshire Sports, Inc., New York, N. Y. Women's and misses' suits. Serial No. 631,651, June 16. Class 39.

Crucible Steel Company of America, New York, N. Y. Semi-finished castings. Serial No. 624,932, June 16. Class 14.

Crystal, David, Inc., New York, N. Y. Ladies' dresses, skirts, suits, etc. Serial No. 630,765, June 16. Class 39.

Dari-King System, Kansas City, Mo. Frozen dairy products. Serial No. 590,074, June 16. Class 46.

Delaware Punch Company of America, The, San Antonio, Tex. Concentrates used in the preparation of maltless soft drinks. Serial No. 636,971, June 16. Class 45.

Denham, James E., doing business under the fictitious name Skiparel Mfg. Co., Reseda, Calif. Exercising apparatus. Serial No. 624,678, June 16. Class 22.

Denham, Pauline, Yarns, Petaluma, Calif. Knitting yarns. Serial No. 630,925, June 16. Class 43.

Denney, Frances, Philadelphia, Pa. Perfumes and toilet waters. Serial No. 639,212, June 16. Class 51.

Dependable Machine Company, Greensboro, N. C. Woodworking machinery. Serial No. 634,524, June 16. Class 23.

Diversey Corporation, The, Chicago, Ill. Solution feeding attachment for commercial can washers, bottle washers and the like. Serial No. 613,562, June 16. Class 26.

DoAll Company, The, Des Plaines, Ill. Steel ink. Serial No. 630,396, June 16. Class 11.

Dominettes Company: *See*—
Sachs, Frank.

Donovan, Marion, Saugatuck, Conn. Facial tissue. Serial No. 630,061, June 16. Class 37.

Dow Corning Corporation, Midland, Mich. Silicone treated fabrics for use in polishing glass, etc. Serial No. 614,654, June 16. Class 29.

Drum Equipment Corporation, Elizabeth, N. J. Metal drum and container reconditioning equipment. Serial No. 607,319, June 16. Class 23.

Duplan Corporation, The, New York, N. Y. Textile fabrics. Serial No. 640,555, June 16. Class 42.

Dupli-Color Products Co., Inc., Chicago, Ill. Plastic coating sprays. Serial No. 619,929, June 16. Class 16.

Eagle Clothes, Inc., New York, N. Y. Men's clothing. Serial No. 607,848, June 16. Class 39.

Eastern Art Products, Chicago, Ill. Picture frames; table tops; and glass ornamental trimming for table tops. Serial No. 596,488, June 16. Class 32.

Electric Indicator Company, Inc., Stamford, Conn. Electrical motors, electrical generators, and components thereof. Serial No. 639,814, June 16. Class 21.

Electronic Beam Corporation, Yonkers, N. Y. Testing apparatus used for measuring leakages and shorts in radio and television sets. Serial No. 637,990, June 16. Class 26.

Ellena Brothers, Etiwanda, Calif. Grape juice. Serial No. 632,553, June 16. Class 45.

Enamel Products Company, The, Cleveland, Ohio. Chalk boards. Serial No. 641,032, June 16. Class 50.

Erie Resistor Corporation, Erie, Pa. Resistors. Serial No. 628,683, June 16. Class 21.

Esa-Wood Corporation, New York, N. Y. Wooden doors. Serial No. 628,193, June 16. Class 12.

Everfast Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 612,490, June 16. Class 42.

Expanded Rubber Company Limited, Croydon, Surrey, England. Natural and synthetic expanded and non-expanded rubber and resin materials. Serial No. 608,415, June 16. Class 1.

Expanded Rubber Company Limited, Croydon, Surrey, England. Natural and synthetic expanded and non-expanded rubber and resin materials. Serial No. 608,968, June 16. Class 1.

Family Products, Inc., assignor to Inapak Corporation, Chicago, Ill. Vitamin-mineral food supplement. Serial No. 609,970, June 16. Class 18.

Farber Brothers, Inc., Memphis, Tenn. Automobile seat covers. Serial No. 639,094, June 16. Class 19.

Fawcett, Henry J., Cleveland, Ohio. Apparatus for steam-treating clothes. Serial No. 626,614, June 16. Class 24.

Feder Industries, Inc., New York, N. Y. Ladies' slippers. Serial No. 623,048, June 16. Class 39.

Federated Department Stores, Inc., Cincinnati, Ohio. Hand sewing needles, pins, snap fasteners, etc. Serial No. 628,754, June 16. Class 40.

Ferber Corporation, Englewood, N. J. Ball point pens, fountain pens, mechanical pencils, etc. Serial No. 639,029, June 16. Class 37.

Fiat Società per Azioni, Turin, Italy. Locks and metallic cabinets for use as safes. Serial No. 633,046, June 16. Class 25.

Food Machinery and Chemical Corporation, New York, N. Y. Purifying, catalytic, and decolorizing materials. Serial No. 639,752, June 16. Class 6.

Foot Pleasure Shoe Company, St. Louis, Mo. Shoes. Serial No. 592,140, June 16. Class 39.

Forney, Harold R., Surprise, Nebr. Extensible hitches employed for coupling a tractor to a cargo transporting wagon. Serial No. 613,308, June 16. Class 23.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 640,450, June 16. Class 42.

Foster Trading Corporation, The, doing business as T. W. Samuels Distillery, Old Jordan Distillery, Our Own Distillery and Country Distillers, Louisville, Ky. Whiskey. Serial No. 637,650, June 16. Class 49.

Fougera, E., & Co., Inc., New York, N. Y. Solution of succinonitrile. Serial No. 626,870, June 16. Class 18.

Fox River Tractor Co., Appleton, Wis. Forage harvesters, forage blowers, bale brakers, etc. Serial No. 627,366, June 16. Class 23.

Franklin Simon & Co. Inc., New York, N. Y. Women's, misses', and girls' shoes. Serial No. 630,097, June 16. Class 39.

Frishman & Gintel, New York, N. Y. Mink fur stoles, mink fur capes, mink fur jackets, etc. Serial No. 636,847, June 16. Class 39.

Gallelier, Incorporated, Cleveland, Ohio. Anesthesia administering parts. Serial No. 638,844, June 16. Class 44.

General Motors Corporation, Detroit, Mich. Shock absorbing devices and parts thereof for vehicles. Serial No. 624,882, June 16. Class 19.

General Shoe Corporation, Nashville, Tenn. Shoes. Serial No. 635,261, June 16. Class 39.

Getz Bros. & Co., San Francisco, Calif. Fractional horsepower electric motors. Serial No. 631,555, June 16. Class 21.

Globe Distributing Company, The, Washington, D. C. Wines. Serial No. 613,911, June 16. Class 47.

Goldblatt Bros. Inc., Chicago, Ill. Ladies' underwear, slips, nightgowns, and pajamas. Serial No. 614,698, June 16. Class 39.

Golde Manufacturing Co., Chicago, Ill. Photographic projectors. Serial No. 580,658, June 16. Class 26.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles. Serial No. 637,273, June 16. Class 39.

Grand Order of the Sword of Bunker Hill, The, Olney, Ill. Stimulating in its members an interest in charity, good fellowship, and patriotism. Serial No. 636,592, June 16. Class 100.

Gray Marine Motor Company, Detroit, Mich. Internal combustion engines; governors and engine speed controlling mechanisms, power transmissions, etc. Serial Nos. 602,029–30, June 16. Class 23.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Fresh oysters. Serial No. 639,991, June 16. Class 46.

Greenspon, Louis, Inc., Clayton, Mo. Line metal pipe and tubing. Serial No. 640,119, June 16. Class 13.

Greenwich Preserving Co., Inc., Dunkirk, N. Y. Jams, jellies, fruit preserves, etc. Serial Nos. 630,708–9, June 16. Class 46.

Griswold Seed Co.: *See*—
Berry Seed Company.

Handcraft Company, Inc., Princeton, Wis. Shoes. Serial No. 627,745, June 16. Class 39.

Happy Valley Orchards: *See*—
Stiefvater, Gerhard W.

Harmon, F. S., Manufacturing Company, Tacoma, Wash. Dinette and kitchen tables. Serial No. 634,370, June 16. Class 32.

Hatco Chemical Company, Kearny, N. J. Plasticizers. Serial No. 643,683, June 16. Class 6.

Heminway & Bartlett Mfg. Co., The, Watertown, Conn. Thread. Serial No. 624,741, June 16. Class 43.

Her Majesty Underwear Company, West Columbia, S. C., and New York, N. Y. Infants', girls', pre-teens', teens', women's slips, half slips, panties, etc. Serial No. 511,389, June 16. Class 39.

Hercules Powder Company, Wilmington, Del. Cellulose gum. Serial No. 637,311, June 16. Class 1.

Hess, Reuben, Benton Harbor, Mich. Ointment. Serial No. 621,148, June 16. Class 18.

Higgins, Inc., New Orleans, La., assignee of Higgins Industries, Inc. Mixture of Portland cement and other materials. Serial No. 525,319, June 16. Class 12.

Higgins Industries, Inc.: *See*—
Higgins, Inc.

Hiller Bros. & Hiller, Inc., New York, N. Y. Ladies' outer garments. Serial No. 636,982, June 16. Class 39.

Holmes, Maurice O. W., Vancouver, British Columbia, Canada. Cleaning fluid. Serial No. 629,018, June 16. Class 52.

Horizon Fishing Rod Servicer Co., Philadelphia, Pa. Fishing rod clamp. Serial No. 627,065, June 16. Class 22.

House of Mabellee: *See*—
Parker, Mabel.

Hoyt and Worthen Tanning Corporation, Haverhill, Mass. Thin leathers. Serial No. 594,460, June 16. Class 1.

Humko Co., The, doing business under the name of Tri-State Refining Co., Memphis, Tenn. Hydrogenated lard. Serial No. 627,508, June 16. Class 46.

Hurd, George B., Inc., New York, N. Y. Writing paper and envelopes. Serial No. 637,592, June 16. Class 37.

Inapak Corporation, assignee: *See*—
Family Products, Inc.

Indiana Steel Products Company, The, Valparaiso, Ind. Permanent magnets. Serial No. 623,960, June 16. Class 21.

International Minerals & Chemical Corporation, Chicago, Ill. Cigarettes. Serial No. 639,995, June 16. Class 17.

International Research and Development Corporation, Columbus, Ohio. Electrically responsive vibration detecting and indicating apparatus. Serial No. 638,085, June 16. Class 26.

Jack Charles, Inc., Milwaukee, Wis. Men's and women's sport shirts and under shirts and men's dress shirts. Serial No. 627,749, June 16. Class 39.

Jacobs, Karl M., Fowler, Ind. Combined table and chair. Serial No. 628,539, June 16. Class 32.

Jaymar Specialty Company, Brooklyn, N. Y. Tiny tot toys. Serial No. 629,732–3, June 16. Class 22.

Jeep, Vincent J., Chicago, Ill. Food and drink catering service. Serial No. 527,362, June 16. Class 100.

Kathryn, Inc., Chicago, Ill. Ammoniated chewing gum. Serial No. 582,436, June 16. Class 46.

Kayser, Julius, & Co., New York, N. Y. Hosiery. Serial No. 630,339, June 16. Class 39.

Kehr Paper Products Co., Philadelphia, Pa. Wrapping paper. Serial No. 634,372, June 16. Class 37.

Kemart Corporation, San Francisco, Calif. Artists' high-light white and wash black paints. Serial No. 615,513, June 16. Class 16.

Kilby Steel Company, Anniston, Ala. Metal grain storage bins. Serial No. 641,619, June 16. Class 2.

Kleckner, David, & Son, Inc., Ozone Park, N. Y. Food colors, gelatine desserts, chocolate, vanilla, butter scotch, etc., puddings, etc. Serial No. 596,848, June 16. Class 46.

Kratt, Wm., Co., Union, N. J. Harmonicas. Serial No. 626,946, June 16. Class 36.

Laher Spring and Tire Corporation, Oakland, Calif. Automobile and truck pneumatic tires. Serial No. 624,279, June 16. Class 35.

Lake Shore Engineering Company, Iron Mountain, Mich. Grey iron castings, bars, and plates. Serial No. 638,771, June 16. Class 14.

La Mour, Inc., Minneapolis, Minn. Color shampoo and shampoo tints. Serial No. 606,304, June 16. Class 52.

Lamb, Alfred, & Son Limited, London, England. Rum. Serial No. 615,124, June 16. Class 49.

Laminated Screens, Inc., New York, N. Y. Articles for interior decorating—namely, screens, etc. Serial No. 633,310, June 16. Class 32.

La Spirotechnique, Paris, France. Diving gear, that is, respiratory apparatus. Serial No. 589,454, June 16. Class 44.

Leschen, A., & Sons Rope Company, St. Louis, Mo. Wire rope. Serial No. 592,735, June 16. Class 7.

Lion Manufacturing, Inc., Columbus, Ohio. Electronic instrument which simultaneously registers the amplitude of vibration in linear displacement, etc. Serial No. 613,647, June 16. Class 26.

Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company. Shortening. Serial Nos. 627,199–200, June 16. Class 46.

Loomtogs, Inc., New York, N. Y. Junior and misses' skirts, slacks, shorts, etc. Serial No. 629,576, June 16. Class 39.

Luster Art Company, Salt Lake City, Utah. Modeling clays. Serial No. 598,660, June 16. Class 1.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts and pajamas. Serial No. 638,963, June 16. Class 39.

Manley, Inc., Kansas City, Mo. Popped popcorn. Serial No. 569,334, June 16. Class 46.

Manufacturing Laboratories, Inc., Boston, Mass. Leather dressing, preservative, and softening composition. Serial No. 635,602, June 16. Class 6.

Markell, Maurice J., New York, N. Y. Men's, women's, and children's shoes. Serial No. 636,486, June 16. Class 39.

Mattel, Incorporated, Los Angeles, Calif. Children's toys. Serial No. 640,073, June 16. Class 22.

May, Milton B., Oklahoma City, Okla. Combined gift certificate and greeting card. Serial No. 636,570, June 16. Class 37.

Mead Johnson & Company, Evansville, Ind. Infusion sets. Serial No. 634,986, June 16. Class 44.

Meat Packers Equipment, Inc., Melbourne, Fla., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Plate and adapter unit for grinding machines. Serial No. 617,258, June 16. Class 23.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's suits, sport coats, topcoats, etc. Serial No. 639,948, June 16. Class 39.

Michigan Peat, Inc., New York, N. Y. Peat, peat moss, and humus. Serial No. 592,918, June 16. Class 1.

Mid-Continent Seeds Inc.: *See*—
Berry Seed Company.

Modern Village Stores, Inc., El Monte, Calif. Checkout counter with built-in motor and conveyor belt. Serial No. 628,003, June 16. Class 23.

Montmorency Distillery Ltd., Beaupre, Quebec, Canada. Whiskey. Serial No. 634,650, June 16. Class 49.

Monumental Manufacturing Corporation, Hanover, Pa. Bowling pins. Serial Nos. 644,773–4, June 16. Class 22.

Muralo Company, Inc., The, New Brighton and Staten Island, N. Y. Paints. Serial No. 609,221, June 16. Class 16.

Murphy Ranch Company, Whittier, Calif. Fresh citrus fruits. Serial No. 637,784, June 16. Class 46.

Mutual Broadcasting System, Inc., New York, N. Y. Radio broadcasting services. Serial No. 612,468, June 16. Class 104.

Myers, Harry, and Company, Inc., Baltimore, Md. Men's and boys' suits, overcoats, rain-coats, etc. Serial No. 635,568, June 16. Class 39.

Narmco, Inc., San Diego, Calif. Fiberglass scrim fabric impregnated with adhesive. Serial No. 626,899, June 16. Class 5.

National Hygienic Products Corp., Akron, Ohio. Prophylactic rubber articles. Serial No. 638,595, June 16. Class 44.

National Package Drugs, Inc., St. Louis, Mo. Cough syrup. Serial No. 621,023, June 16. Class 18.

National Retailer-Owned Grocers, Inc., Chicago, Ill. Canned vegetables, canned mushrooms, canned prepared spaghetti, etc. Serial No. 564,146, June 16. Class 46.

National Sure-Fit Quilting Co., Inc., New York, N. Y. Quilted mattress pads and protectors. Serial No. 630,015, June 16. Class 42.

Newark Pattern Works, assignor to Shell-O-Matic, Inc., Newark, N. J. Mold making machinery. Serial No. 630,901, June 16. Class 23.

Newgren, Rose R., Gates Mills, Ohio. Rodenticides. Serial No. 633,212, June 16. Class 6.

Newport Mineral Water Co. Inc., Newport, Ky. Noncaloric carbonated maltless soft drink. Serial No. 637,136, June 16. Class 45.

News Syndicate Co. Inc., New York, N. Y. Comic strips. Serial No. 625,995, June 16. Class 38.

Noma Electric Corporation, New York, N. Y., and Hamilton, Ohio, assignor to Radio Corporation of America, New York, N. Y. Gas stoves, ovens, and parts thereof. Serial No. 625,078, June 16. Class 34.

Oakford Company, The, Peoria, Ill. Toilet tissue, writing tablets, paper kitchen towels. Serial No. 537,721, June 16. Class 37.

Oberman Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 630,344, June 16. Class 42.

Oberman, M. A., & Son, St. Louis, Mo. Removable insoles for shoes. Serial No. 638,371, June 16. Class 39.

Old Jordan Distillery: *See*—
Foster Trading Corporation, The.

Ossola, J., Co.: *See*—
Ossola, J., Co. Inc.

Ossola, J., Co. Inc., also known as J. Ossola Co., New York, N. Y. Spiced olives. Serial No. 633,694, June 16. Class 46.

Ouimet, C. P., Shoe Company Limited, Montreal, Quebec, Canada. Women's shoes. Serial No. 636,186, June 16. Class 39.

Our Own Distillery: *See*—
Foster Trading Corporation, The.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Air filters. Serial Nos. 551,196–6, June 16. Class 31.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Acoustic tile and sound absorbing baffles. Serial No. 635,148, June 16. Class 12.

Pacific Lumber Company, The, San Francisco, Calif. Organic acid group. Serial No. 638,211, June 16. Class 6.

Pacific Lumber Company, The, San Francisco, Calif. Sodium salt. Serial No. 638,212, June 16. Class 6.

Packaging Materials Corp., Providence, R. I. Corrugated paper board. Serial Nos. 626,816–18, June 16. Class 37.

Pan American World Airways, Inc., New York, N. Y. Transportation of passengers and freight by aircraft, etc. Serial No. 619,309, June 16. Class 105.

Parker, Mabel, doing business under the trade name and style of House of Mabellee, Arlington, Va. Hair pomade. Serial No. 640,223, June 16. Class 51.

Patco Mfg. Co.: *See*—
Thompson, Paul J.

Pate Oil Company, Milwaukee, Wis. Automotive vehicle inspection, lubrication, repair, etc. Serial No. 535,601, June 16. Class 103.

Pennsylvania Refining Company, Butler, Pa. Hand tool in the form of a conduit. Serial No. 596,356, June 16. Class 23.

Petermann Co., Union City, N. J. Non-alcoholic, maltless, grape-flavored soft drinks. Serial No. 636,731, June 16. Class 45.

Petite Miss Co., New York, N. Y. Ladies' coats. Serial No. 638,311, June 16. Class 39.

Pevely Dairy Company, St. Louis, Mo. Vegetable fat frozen dessert. Serial No. 638,094, June 16. Class 46.

Pfizer, Chas., & Co. Inc., Brooklyn, N. Y. Penicillin preparation. Serial No. 638,440, June 16. Class 18.

Pharma-Craft Corporation, The, New York, N. Y. Germicidal soap. Serial No. 637,528, June 16. Class 52.

Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Floor enamels, implement paint, screen paint, etc. Serial No. 533,358, June 16. Class 16.

Philadelphia Childrens Wear Show, Inc., Philadelphia, Pa. Advertising the goods of others. Serial No. 699,450, June 16. Class 101.

Pittsburgh Corning Corporation, Pittsburgh, Pa. Architectural glass. Serial No. 569,013, June 16. Class 12.

Pittsburgh Lectromelt Furnace Corporation, Pittsburgh, Pa. Bottom hinged buckets adapted to be suspended from a crane hook or other maneuvering apparatus. Serial No. 627,221, June 16. Class 23.

Procter & Gamble Company, The, Cincinnati, Ohio. Soluble cleaner, cleanser, and detergent. Serial No. 634,545, June 16. Class 52.

Production Foundry Company: *See*—
Cameto, Leon.

Quaker Rubber Corporation, Philadelphia, Pa. Lawn hose and conveyor belting. Serial No. 641,208, June 16. Class 35.

Qualcast Limited, Derby, England. Metal castings. Serial No. 628,872, June 16. Class 14.

Radio Corporation of America, assignee: *See*—
Noma Electric Corporation.

Raybestos-Manhattan, Inc., Passaic, N. J. Asbestos yarns and asbestos thread. Serial No. 628,715, June 16. Class 43.

Red Devil Tools, Irvington, N. J. Putty chisels, wall paper trimmers, paper hangers' straight edges, etc. Serial No. 568,400, June 16. Class 23.

Reed & Carnrick, Jersey City, N. J. Medicine—namely, a barbiturate-containing sedative, tranquillizer and muscle relaxant. Serial No. 640,360, June 16. Class 18.

Republic Steel Corporation, assignee: *See*—
Truscon Steel Company.

Rice Growers Association of California, Sacramento, Calif. Rice polish. Serial No. 640,009, June 16. Class 46.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Electric igniters for fuel burners, electric switches, and valves. Serial No. 626,415, June 16. Class 21.

Robins, Dave, Dallas, Tex. Women's hats. Serial No. 630,092, June 16. Class 39.

Rockwood Paint Manufacturing Co., Rockford, Ill. Ready mixed colorants. Serial Nos. 624,298–9, June 16. Class 16.

Rogers Pump Co.: *See*—
Rogers, Vernon R.

Rogers, Vernon R., doing business as Rogers Pump Co., Oshkosh, Wis. Sump pumps, coolant pumps, vacuum pumps, etc. Serial No. 550,440, June 16. Class 23.

Rootie Kazootie, Inc., New York, N. Y. Toy hand puppets. Serial No. 644,689, June 16. Class 22.

Rose-Derry Company, Newton, Mass. Mattresses. Serial No. 617,213, June 16. Class 32.

Round, David, & Son, Cleveland, Ohio. Trolleys; cranes; winches; hoists, etc. Serial Nos. 601,643–4, June 16. Class 23.

Roy, Milton, Company, Philadelphia, Pa. Air-powered controlled volume pump. Serial No. 621,423, June 16. Class 26.

Russell Manufacturing Company, The, Alexander City, Ala. Men's and boys' apparel and sportswear. Serial No. 618,099, June 16. Class 39.

Sachs, Frank, doing business as Dominettes Company, Detroit, Mich. Game. Serial No. 634,119, June 16. Class 22.

Saffell, Gene E., Minneapolis, Minn. Combination mailing envelopes and partially printed business statements. Serial No. 618,762, June 16. Class 37.

Samuels, T. W., Distillery: *See*—
Foster Trading Corporation, The.

Sanson Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. Serial No. 630,451, June 16. Class 39.

Saperstein, A. M., Chicago, Ill. Entertainment services. Serial No. 630,783, June 16. Class 107.

Schenley Laboratories, Inc., New York, N. Y. Tablet consisting of a sedative and muscular relaxant. Serial No. 627,964, June 16. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Sedative and muscular relaxant. Serial No. 627,966, June 16. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Polyvinyl pyrrolidone in bulk. Serial No. 627,971, June 16. Class 18.

Schoellkopf Company, The, Dallas, Tex. Gun cases, saddle scabbards, pistol holsters and cartridge cases. Serial No. 628,227, June 16. Class 9.

Sears, Roebuck and Co., Chicago, Ill. Men's, young men's, and youths' clothing. Serial No. 559,332, June 16. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Shoe soles. Serial No. 639,840, June 16. Class 39.

Seminole Flavor Company, Chattanooga, Tenn. Orange-flavored, carbonated, non-alcoholic, non-cereal, maltless beverages. Serial No. 576,289, June 16. Class 45.

Seminole Flavor Company, Chattanooga, Tenn. Grape-flavored, carbonated, non-alcoholic, non-cereal, maltless beverages. Serial No. 576,290, June 16. Class 45.

Sewai, Wong, doing business as Wing Lee Wai, San Francisco, Calif., and Hong Kong, China. Alcohol beverage. Serial No. 636,310, June 16. Class 49.

Shell-O-Matic, Inc., assignee: *See*—
Newark Pattern Works.

Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's basketball shoes. Serial No. 629,961, June 16. Class 39.

Simonix Company, Chicago, Ill. Hard paste waxlike material for providing a coating or film. Serial No. 635,887, June 16. Class 16.

Skelly Oil Company, Kansas City, Mo. Gas utilization equipment—namely, storage and utilization tanks. Serial No. 634,553, June 16. Class 2.

Skiparel Mfg. Co.: *See*—
Denham, James E.

Sociedad Importadora Comercial Americana, Buenos Aires, Argentina, South America. Grooved phonograph records. Serial No. 633,088, June 16. Class 36.

Societe Vinicole de Pauillac (Societe Anonyme), Pauillac, France. Wines. Serial No. 628,783, June 16. Class 47.

Spinnerin Yarn Co., Inc., South Hackensack, N. J. Yarn. Serial No. 640,816, June 16. Class 43.

Standard Food Products Corp., Brooklyn, N. Y. Brandy. Serial No. 583,176, June 16. Class 46.

Standard Oil Company, The, Cleveland, Ohio. Motor oil. Serial No. 639,9[illegible], June 16. Class 15.

Standard Seed Co.: *See*—
Berry Seed Company.

Standard Seed and Feed Company: *See*—
Berry Seed Company.

Stanley Works, The, New Britain, Conn. Knobs. Serial No. 640,232, June 16. Class 13.

Star Brush Manufacturing Co., Inc., Boston, Mass. Brushes. Serial No. 603,901, June 16. Class 29.

Stedman Manufacturing Company, Asheboro, N. C. Men's and boys' underwear. Serial No. 630,457, June 16. Class 39.

Stein, Hall & Company, Inc., New York, N. Y. Tapioca flour. Serial No. 643,440, June 16. Class 46.

Stellad Products, Inc., Indianapolis, Ind. Liquid cleaner. Serial No. 636,910, June 16. Class 52.

Stiefvater, Gerhard W., doing business as Happy Valley Orchards, Chico, Calif. Shelled, plain almonds. Serial No. 593,375, June 16. Class 46.

Stienen, Ernest A., New York, N. Y. Dyeing machinery, drying machinery, and machines for extracting fluid from textiles. Serial No. 611,047, June 16. Class 23.

Stineway Drug Company, Chicago, Ill. Women's hosiery. Serial No. 605,926, June 16. Class 39.

Stratoflex, Inc., Fort Worth, Tex. Metal hose fittings and couplings. Serial No. 633,394, June 16. Class 13.

Sulfur-8 Chemical Co., Inc., Brooklyn, N. Y. Hair and scalp conditioner. Serial No. 621,917, June 16. Class 51.

Sunnen Products Company, St. Louis, Mo. Hones, abrasive stones, abrasive grains, etc. Serial No. 603,317, June 16. Class 4.

Superior Sleeprite Corporation, Chicago, Ill. Mattresses and box springs. Serial No. 613,350, June 16. Class 32.

Supreme Products, Inc., Chicago, Ill. Chucks and parts thereof, and chuck key and chuck adaptor. Serial No. 617,065, June 16. Class 23.

Technology Instrument Corporation, Acton, Mass. Measuring instrument. Serial No. 639,448, June 16. Class 26.

Tektronix, Inc., Portland, Oreg. Electronic measuring instruments and auxiliary apparatus. Serial No. 635,104, June 16. Class 26.

Thalheim's Wearwell Shoe Co., Inc., New York, N. Y. Leather and rubber shoes. Serial No. 622,870, June 16. Class 39.

Thompson Bros. Shoe Co., Brockton, Mass. Children's boots and shoes. Serial Nos. 554,736–7, June 16. Class 39.

Thompson, Paul J., doing business as Patco Mfg. Co., Philadelphia, Pa. Hot air conduits and registers. Serial No. 637,093, June 16. Class 34.

Tingue, Brown & Co., New York, N. Y. Cotton padding for laundry machinery rolls. Serial No. 622,912, June 16. Class 24.

Trachtenberg, Alice, Zurich, Switzerland. Brochures, leaflets, textbooks. Serial No. 626,929, June 16. Class 38.

Tri-State Refining Co.: *See*—
Humko Co., The.

Truscon Steel Company, Youngstown, assignor to Republic Steel Corporation, Cleveland, Ohio. Unfinished pressed steel stampings. Serial No. 611,203, June 16. Class 14.

Tun Tavern Detachment, Marine Corps League, Philadelphia, Pa. Providing welfare and social services to veterans, etc. Serial No. 631,450, June 16. Class 100.

Turnec, Claude H., doing business under the style name of Atlanta Boat Works, Atlanta, Ga. Power driven boats. Serial No. 636,751, June 16. Class 19.

Union Packing Co. (Canada) Ltd., Toronto, Ontario, Canada. Canned hams. Serial No. 638,678, June 16. Class 46.

United Aircraft Products, Inc., Dayton, Ohio. Oil tanks for aircraft. Serial No. 618,136, June 16. Class 19.

United States Gypsum Company, Chicago, Ill. Wall coatings in the nature of paint. Serial No. 607,057, June 16. Class 16.

United States Shoe Corporation, The, Cincinnati, Ohio. Shoes. Serial No. 638,334, June 16. Class 39.

Virginia Smelting Company, West Norfolk, Va. Printed publications. Serial No. 550,278, June 16. Class 38.

Waldron, John, Corporation, Highland Park, N. J. Roll coater, impregnator, and laminator machines. Serial No. 641,586, June 16. Class 28.

Waxide Paper Company, Kansas City, Mo. Coated, strong, moldable, and moisture vapor retaining paper. Serial No. 619,690, June 16. Class 37.

Wayne Weavers, Inc., Philadelphia, Pa. Various fabrics. Serial No. 630,363, June 16. Class 42.

Weidner Canning Company: *See*—
Weidner, Charles J.

Weidner, Charles J., doing business under the name Weidner Canning Company, Plymouth, Ind. Pickles and pickle relish. Serial No. 630,247, June 16. Class 46.

Weicraft Products Co., Inc., North Liberty, Ind. Back rests for seats. Serial No. 627,157, June 16. Class 32.

White, Bob, doing business under the name Bob White Organization, Miami, Fla. Fruit and imitation fruit concentrates and bases for making non-alcoholic maltless soft drinks and punch. Serial No. 637,412, June 16. Class 45.

White, Bob, Organization: *See*—
White, Bob.

Wilkins-Rogers Milling Company, Inc., Washington, D. C. Wheat flour, self-rising flour, and feed. Serial No. 627,160, June 16. Class 46.

Willard Storage Battery Company, Cleveland, Ohio. Storage batteries. Serial No. 638,561, June 16. Class 21.

Willard and Ware, Yakima, Wash. Trout bait. Serial No. 634,389, June 16. Class 22.

Willoform Mfg. Co., Inc., New York, N. Y. Girdles. Serial No. 640,827, June 16. Class 39.

Willson Products, Inc., Reading, Pa. Sun glasses. Serial No. 639,600, June 16. Class 26.

Winders & Geist, Inc., Lincoln, Nebr. Conduits for electrical wiring. Serial No. 630,913, June 16. Class 21.

Wing Lee Wai: *See*—
Sewai, Wong.

Wohl Shoe Company, St. Louis, Mo. Shoes. Serial No. 544,955, June 16. Class 39.

Woodmanse Mfg. Co., Freeport, Ill. Belt driven, shallow and deep well, ejector or jet pumps. Serial No. 640,367, June 16. Class 23.

Woodzan Co., Inc., The, Ridgewood, N. J. Floor finish varnish and reducer therefor. Serial No. 618,430, June 16. Class 16.

Wright Leather Specialty Co., St. Louis, Mo. Articles made of plastics, namely, billfolds, coin purses, etc. Serial No. 614,599, June 16. Class 3.

Wynn, Clarence M., doing business as Wynoil Laboratories, Azusa, Calif. Compound useable as a gasoline dehydrating additive and carburetor cleaner. Serial No. 618,391, June 16. Class 52.

Wynoil Laboratories: *See*—
Wynn, Clarence M.

Young Foods, Inc., Danville, Ill. Nuts. Serial No. 640,991, June 16. Class 46.

Zeller Corporation, The, Defiance, Ohio. Steel and alloy steel machined parts, forgings, and stampings. Serial No. 632,705, June 16. Class 14.

Zion Countryside Bakers, The: *See*—
Zion Industries, Inc.

Zion Industries, Inc., doing business as The Zion Countryside Bakers, Zion, Ill. Cookies. Serial No. 607,108, June 16. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abion Finishes, Inc., Newark, N. J. Polyvinyl chloride. 576,082, June 16; Serial No. 634,024, published Mar. 17, 1953. Class 6.

Adler Sons Shoe Corp., New York, N. Y. Leather shoes and insoles therefor. 575,769, June 16; Serial No. 572,542, published Mar. 24, 1953. Class 39.

Advance Car Mover Company, Inc., Appleton, Wis. Railroad car moving tool. 575,874, June 16; Serial No. 619,278, published Mar. 10, 1953. Class 23.

Aeroplane Spinner Manufacturing Co., The: *See*—
Scanian, E. S.

Affiliated Retailers, Inc., New York, N. Y. Chairs, tables, metal stools, etc. 575,923, June 16; Serial No. 624,179, published Mar. 31, 1953. Class 32.

Aircraft-Marine Products Inc., Harrisburg, Pa. Dielectric material. 575,833, June 16; Serial No. 610,777, published Mar. 31, 1953. Class 21.

Aktiebolaget Orrefors Glasbruk, Orrefors, Sweden. Lamp globes, lamp shades, and lamp lenses, etc. 575,928, June 16; Serial No. 624,803, published Mar. 24, 1953. Class 21.

Aktiebolaget Vibro-Verken, Stockholm, Sweden. Electrically-driven vibrators; vibrating units, etc. 575,858, June 16; Serial No. 616,005, published Mar. 24, 1953. Class 21.

Aktiebolaget Vibro-Verken, Stockholm, Sweden. Pneumatic and internal combustion engine-driven vibrators and vibrating units, etc. 575,859, June 16; Serial No. 616,006, published Mar. 10, 1953. Class 23.

Aldens, Inc., Chicago, Ill. Living room, kitchen, dining room, and bedroom furniture. 575,819, June 16; Serial No. 605,781, published Mar. 31, 1953. Class 32.

Alexander Packing Corporation, New York, N. Y. Canned sardines. 575,855, June 16; Serial No. 615,039, published Mar. 17, 1953. Class 46.

Allied Stores Corporation: *See*—
Hahn Department Stores, Inc.

All-Sil Welding Metals, Inc., New York, N. Y. Fluxes. 576,124, June 16; Serial No. 638,682, published Mar. 17, 1953. Class 6.

Aloff, Alexander, doing business under the name Chicago Packing Company, Chicago, Ill. Smoked dried boneless fish. 576,041, June 16; Serial No. 631,968, published Mar. 17, 1953. Class 46.

American Bemberg Corporation, to Beaunit Mills, Inc., New York, N. Y. Fabrics. 299,627, renewed Dec. 13, 1952. O. G. June 16. Class 42.

American Colloid Co., Chicago, Ill. Finely divided bentonite. 356,773–4, May 10, 1938. Corrected. O. G. June 16. Class 1.

American Distilling Company, The, Pekin, Ill., doing business as Waldo Springs Distilling Company, Sausalito, Calif. Vodka. 576,067, June 16; Serial No. 633,006, published Mar. 24, 1953. Class 49.

American Hominy Company, Indianapolis, Ind., to Decatur Milling Company, Inc., Decatur, Ill. Corn-product adhesive paste. 90,619, re-renewed Mar. 11, 1953. O. G. June 16. Class 5.

American Molasses Company, New York, N. Y. Sugar, sugar syrup, invert sugar and liquid sugar. 576,023, June 16; Serial No. 631,193, published Mar. 17, 1953. Class 46.

American Saw and Manufacturing Company, Springfield, Mass. Hole saws. 575,878, June 16; Serial No. 619,796, published Jan. 20, 1953. Class 23.

Ampersand Press, The: *See*—
Patterson, Stephen H., Jr.

Amston Silver Company, Inc., Amston, Conn., assignor to The Elimore Silver Co., Inc. Sterling silver flatware. 576,137, June 16; Serial No. 573,701. Class 28.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Vegetable oil food products. 576,024, June 16; Serial No. 631,232, published Mar. 17, 1953. Class 46.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere in the United States. Vegetable oil food products. 576,093, June 16; Serial No. 634,516, published Mar. 17, 1953. Class 46.

Anita Modes, Inc., New York, N. Y. Ladies' dresses. 575,933, June 16; Serial No. 625,249, published Mar. 10, 1953. Class 30.

Ansonia Mills, Inc., Ansonia, Conn., Taunton, Mass., and New York, N. Y. Automobile seat cover fabric. 575,937, June 16; Serial No. 625,513, published Mar. 31, 1953. Class 42.

Antro Gardens, Inc., Lyons, N. Y. Plant food. 575,990, June 16; Serial No. 629,710, published Mar. 17, 1953. Class 10.

Apex Tool Company, Incorporated, The, Bridgeport, Conn. Parts for airplane engines. 575,776, June 16; Serial No. 581,638, published Mar. 24, 1953. Class 23.

Applied Biochemists and Associates: *See*—
Domogalla, Bernard.

Arborite Company Limited, The, Town of La Salle, Quebec, Canada. Electrical insulating material. 576,113, June 16; Serial No. 635,674, published Mar. 24, 1953. Class 21.

Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Polymerized marine oil. 576,078, June 16; Serial No. 633,830, published Mar. 17, 1953. Class 6.

Arnold Products, Inc., Opa Locka, Fla. Storm windows. 575,979, June 16; Serial No. 629,187, published Feb. 17, 1953. Class 12.

Associated Merchandising Corporation, The, New York, N. Y. Men's shoes. 575,901, June 16; Serial No. 622,193, published Mar. 24, 1953. Class 39.

Asthmanefrin Company, Incorporated, doing business under the assumed business name and style of Vaponefrin Company, Portland, Oreg., and Upper Darby, Pa. Solution used in the treatment of asthma and hay fever. 575,984, June 16; Serial No. 629,341, published Feb. 17, 1953. Class 18.

Atlantic Clothing Co., Inc., New York, N. Y. Men's and boys' suits, topcoats, overcoats, etc. 575,869, June 16; Serial No. 618,281, published Feb. 24, 1953. Class 39.

Austin, Guy D., Miami, Fla. Commercial fertilizer. 576,070, June 16; Serial No. 633,192, published Mar. 17, 1953. Class 10.

B. & B. Shoe Company, Chicago, Ill. Shoes and slippers. 575,828, June 16; Serial No. 609,355, published Mar. 24, 1953. Class 39.

Baar & Beards, Inc., New York, N. Y. Ladies' and misses' scarves, stoles, midriffs, etc. 576,013, June 16; Serial No. 630,871, published Mar. 10, 1953. Class 39.

Babson Bros. Co., Chicago, Ill. Milking apparatus. 576,143, June 16; Serial No. 606,360. Class 23.

Baker Brush Co., Inc., New York, N. Y. Paint brushes. 575,885, June 16; Serial No. 620,716, published Mar. 24, 1953. Class 29.

Baker Clothes, Inc., Philadelphia, Pa. Men's clothing. 576,004, June 16; Serial No. 630,376, published Mar. 10, 1953. Class 39.

Baker Perkins Company, Inc., to Baker Perkins Inc., Saginaw, Mich. Machine for dissolving cellulose xanthate in dilute sodium hydroxide solution to produce viscose. 303,129, renewed May 9, 1953. O. G. June 16. Class 23.

Baker Perkins Inc.: *See*—
Baker Perkins Company, Inc.

Balderacchi, John J., doing business as G. P. Food Distributors, Greensboro, N. C. Fresh and frozen dressed poultry, frozen fish, oleomargarine, etc. 575,881, June 16; Serial No. 619,983, published Mar. 17, 1953. Class 46.

Baldwin-Lima-Hamilton Corporation: *See*—
Baldwin Locomotive Works, The.

Baldwin Locomotive Works, The, Eddystone, Pa., now by change of name Baldwin-Lima-Hamilton Corporation. Machines for testing the strength of materials; instruments responsive to and instrumenta for measuring, indicating, and recording strain, etc. 575,802, June 16; Serial No. 595,052, published Feb. 3, 1953. Class 26.

Bally, Inc., New York, N. Y. Ladies' and misses' shoes. 575,778, June 16; Serial No. 584,889, published Mar. 24, 1953. Class 39.

Bally, Inc., New York, N. Y. Ladies' and misses' shoes. 575,870, June 16; Serial No. 618,283, published Mar. 24, 1953. Class 39.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 575,970–1, June 16; Serial Nos. 628,606–7, published Mar. 31, 1953. Class 42.

Banfi Products Corp., New York, N. Y. Laxative salt. 575,991, June 16; Serial No. 629,764, published Feb. 17, 1953. Class 18.

Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa. Women's hosiery. 576,089–90, June 16; Serial Nos. 634,290–1, published Mar. 17, 1953. Class 39.

Barber-Colman Company, Rockford, Ill. Solenoid or electric motor driven power operators. 575,926, June 16; Serial No. 624,627, published Mar. 17, 1953. Class 21.

Barclay, Jas., & Co. Limited, Detroit, Mich., and Peoria, Ill. Canadian whiskey. 575,951, June 16; Serial No. 627,038, published Mar. 3, 1953. Class 49.

Beaunit Mills, Inc.: *See*—
American Bemberg Corporation.

Beebe Rubber Company, Nashua, N. H. Heels and soles. 576,001, June 16; Serial No. 630,181, published Mar. 24, 1953. Class 39.

Bell Answering System, The, Washington, D. C. Telephone answering service and mail address service. 559,999, June 10, 1952. Canceled Apr. 29, 1953. O. G. June 16. Class 101.

Bernard-Moteurs, S. A., Paris, France. Automobiles, motor boats and radiators, and frames therefor. 575,792, June 16; Serial No. 591,143, published Mar. 31, 1953. Class 19.

Bersworth Chemical Company, Framingham, Mass. Chelating agent. 575,968, June 16; Serial No. 628,460, published Mar. 17, 1953. Class 6.

Bersworth Chemical Company, Framingham, Mass. Chelating agent. 575,969, June 16; Serial No. 628,461, published Mar. 24, 1953. Class 6.

Bersworth Chemical Company, Framingham, Mass. Agricultural fertilizer. 576,080, June 16; Serial No. 633,966, published Mar. 24, 1953. Class 10.

Betzel, A. E., assignee: *See*—
Uttz, William A.

Betzel, A. E., Jr., assignee: *See*—
Uttz, William A.

Betzel, Charles A., assignee: *See*—
Uttz, William A.

Betzel Specialty Manufacturing Company, assignee: *See*—
Uttz, William A.

Betzel, William A., assignee. *See*—
Uttz, William A.

Bib Corporation, The, Lakeland, Fla. Canned fruit juices. 575,948, June 16; Serial No. 626,779, published Mar. 17, 1953. Class 46.

Bingham Brothers Company, New York, N. Y. Printers' rollers. 575,956, June 16; Serial No. 627,550, published Mar. 10, 1953. Class 23.

Birshtein Furniture Studios, Norfolk, Va. Coated and uncoated fabrics. 575,903, June 16; Serial No. 622,295, published Mar. 31, 1953. Class 42.

Bishop, Stanley E., doing business as The Ted Bishop Company, Boston, Mass. Men's, women's, and children's golf shoes. 575,867, June 16; Serial No. 617,858, published Mar. 24, 1953. Class 39.

Bishop, Ted, Company, The: *See*—
Bishop, Stanley E.

Bisquit Dubouché & Compagnie, Laporte Bisquit & Compagnie, Successeurs, Societe a Responsabilite Limitee, Jarnac, France. Brandy. 575,770, June 16; Serial No. 573,611, published Mar. 3, 1953. Class 49.

Blackwelder Manufacturing Co., Rio Vista, Calif. Agricultural equipment. 575,849, June 16; Serial No. 613,582, published Mar. 10, 1953. Class 23.

Bloser Baby Shoe Co., doing business under the name Tiny Twidler Shoe Company, Gettysburg, Pa. Infants' shoes. 576,042, June 16; Serial No. 631,975, published Mar. 24, 1953. Class 39.

Blue Bell, Inc., Greensboro, N. C. Men's, women's, and children's dungarees; men's and children's Western dungarees, etc. 576,039, June 16; Serial No. 631,918, published Mar. 10, 1953. Class 39.

Boepple Sportswear Mills, Inc., New York, N. Y. Women's, misses' and girls' slipover and cardigan sweaters. 576,055, June 16; Serial No. 632,593, published Mar. 17, 1953. Class 39.

Bois, Erven Lucas, Incorporated, Englewood, N. J. Gin. 575,918, June 16; Serial No. 623,642, published Feb. 17, 1953. Class 49.

Bombara, Carlo, doing business as New Art Shop, Jamaica, N. Y. Furniture. 595,962, June 16; Serial No. 627,922, published Mar. 31, 1953. Class 32.

Bonanno, Francis A., doing business as Francis A. Bonanno Co., Dayton, Ohio. Wines. 575,791, June 16; Serial No. 591,069, published Mar. 24, 1953. Class 47.

Bonanno, Francis A., Co.: *See*—
Bonanno, Francis A.

Bong-Fong, Inc., Los Angeles, Calif. Frozen food products. 576,117, June 16; Serial No. 636,200, published Mar. 24, 1953. Class 46.

Bonoll Packing Corporation: *See*—
Crisafulli, Stefano.

Bonus Savings Stamp Co., Kansas City, Mo. Blank savings stamp books. 575,808, June 16; Serial No. 600,465, published Jan. 27, 1953. Class 37.

Booth Bottling Co., Inc., Philadelphia, Pa. Non-alcoholic, maltless beverages. 575,959, June 16; Serial No. 627,797, published Mar. 3, 1953. Class 45.

Borden Company, The, doing business under the assumed trade-name of Georgia-Carolina Dairies, New York, N. Y. Ice cream, sherbet, and ice cream cake rolls. 575,826, June 16; Serial No. 608,813, published Mar. 17, 1953. Class 46.

Borg-Warner Corporation, Chicago, Ill. Non-electric brakes and brake assemblies for automotive and aviation vehicles, and booster units therefor, etc. 575,786, June 16; Serial No. 589,557 published Mar. 31, 1953. Class 19.

Borg-Warner Corporation, Chicago, Ill. Closures for openings in buildings. 575,886, June 16; Serial No. 620,799, published Feb. 17, 1953. Class 12.

Bosch Brewing Company, Houghton, Mich. Beer. 575,902, June 16; Serial No. 622,196, published Mar. 10, 1953. Class 48.

Botany Mills, Inc.: *See*—
Botany Worsted Mills.

Botany Worsted Mills, to Botany Mills, Inc., Passaic, N. J. Textile fabrics. 305,633, renewed Aug. 22, 1953. O. G. June 16. Class 42.

Bound Brook Oil-Less Bearing Company, Bound Brook, N. J. Metal and graphite bearings, bushings and thrust bearings. 576,097, June 16; Serial No. 634,627, published Mar. 10, 1953. Class 23.

Boylin, Frank, Inc., New York, N. Y. Misses' coats and suits. 575,916, June 16; Serial No. 623,395, published Mar. 24, 1953. Class 39.

Braff, Leidner & Eisenstadt Corp., New York, N. Y. Ladies', misses', and women's coats and suits. 575,965, June 16; Serial No. 628,188, published Mar. 24, 1953. Class 39.

Brambler, Irving, doing business as Ed-U-Cards, New York, N. Y. Card games. 576,034–5, June 16; Serial Nos. 631,787–8, published Mar. 31, 1953. Class 22.

Brand, William, and Co., Inc., The, Willimantic, Conn. Electric insulation material. 575,853, June 16; Serial No. 614,278, published Mar. 31, 1953. Class 21.

Brass, Edward A., Norwood, La. Fire alarm apparatus, railway signal controls, traffic signals and associated control apparatus, etc. 409,136, Sept. 19, 1944. Republished June 16. Class 21.

Brevitt Shoes Limited, Leicester, England. Men's, women's, and children's boots, shoes and slippers, and belts. 575,875, June 16; Serial No. 619,489, published Mar. 24, 1953. Class 39.

Brunsviga Maschinenwerke, A. G., Braunschweig, Germany. Calculating and adding machines. 575,938, June 16; Serial No. 625,563, published Feb. 3, 1953. Class 26.

Buegeleisen & Jacobson, Inc., New York, N. Y. Accordions. 575,822, June 16; Serial No. 606,262, published Mar. 31, 1953. Class 36.

Burgess Battery Company, Freeport, Ill. Electric dry batteries. 575,842, June 16; Serial No. 611,682, published Mar. 31, 1953. Class 21.

California Growers Wineries, Cutler, Calif. Wines. 575,803, June 16; Serial No. 596,651, published Mar. 24, 1953. Class 47.

Campbell, S., & Son Limited, to Campbells (Distillery) Llimted, Glasgow, Scotland. Scotch whisky. 305,137, renewed Aug. 8, 1953. O. G. June 16. Class 49.

Campbells (Distillery) Limited: *See*—
Campbell, S., & Son Limited.

Carborundum Company, The, Niagara Falls, N. Y. Sheet material coated with abrasive grains. 576,148, June 16; Serial No. 611,828. Class 4.

Cardinal China Co., Carteret, N. J. Glass dishes. 576,157, June 16; Serial No. 631,465. Class 33.

Carnation Company, Los Angeles, Calif. Milk products. 575,865, June 16; Serial No. 617,390, published Mar. 17. Class 46.

Carolina Manufacturing Company, Greenville, S. C. Handkerchiefs. 575,772, June 16; Serial No. 577,039, published Mar. 10, 1953. Class 39.

Carter Dry Goods Company, Louisville, Ky. Men's and boys' jackets, sport vests, blouses, etc. 575,930, June 16; Serial No. 624,929, published Mar. 3, 1953. Class 39.

Cass Products Company: *See*—
Cassidy, Peter L.

Cassidy, Peter L., doing business as Cass Products Company, Chicago, Ill. Plastic sealing compound. 575,935, June 16; Serial No. 625,338, published Feb. 17, 1953. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Calcined gypsum plaster. 575,883, June 16; Serial No. 621,544, published Feb. 17, 1953. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Flooring compound. 575,900, June 16; Serial No. 622,142, published Feb. 17, 1953. Class 12.

Cessna Aircraft Company, The, Wichita, Kans. Airplanes and parts therefor. 576,100, June 16; Serial No. 634,888, published Mar. 31, 1953. Class 19.

Chadwick, Earl L., doing business as Earl L. Chadwick Company, Portland, Oreg. Combination shearing, trimming, and edging tools. 576,045, June 16; Serial No. 632,291, published Mar. 10, 1953. Class 23.

Chadwick, Earl L., Company: *See*—
Chadwick, Earl L.

Champ-Items, Inc., St. Louis, Mo. Automotive service products. 575,795, June 16; Serial No. 592,475, published Mar. 31, 1953. Class 19.

Champion Paper and Fibre Company, The, Hamilton, Ohio. Printing paper. 576,068, June 16; Serial No. 633,100, published Feb. 10, 1953. Class 37.

Charabot & Co., Inc., New York, N. Y. Aldehydes, alcohols, and natural and essential oils. 576,116, June 16; Serial No. 635,951, published Mar. 17, 1953. Class 6.

Charles of the Ritz Operating Corporation, New York, Manhasset, and White Plains, N. Y., East Orange, N. J., and elsewhere. Haircutting, shampooing, rinsing, bleaching and dyeing hair, etc. 576,132, June 16; Serial No. 603,835, published Mar. 31, 1953. Class 100.

Chef's Shelf, Inc., Kenosha, Wis. Kitchen shelf. 575,925, June 16; Serial No. 624,446, published Mar. 31, 1953. Class 32.

Chekhov Publishing House of the East European Fund, Inc.: *See*—
East European Fund, Inc.

Chicago Packing Company: *See*—
Aloff, Alexander.

Chicago Tribune: *See*—
Tribune Company.

Churtons, Limited, Liverpool, England. Scotch whiskey. 575,814, June 16; Serial No. 602,083, published Mar. 3, 1953. Class 49.

Clean-E-Ze Manufacturing Company: *See*—
Schultz, William W.

Cleveland Graphite Bronze Company, The, Cleveland, Ohio. Automotive clutches and parts thereof. 576,104, June 16; Serial No. 635,083, published Mar. 31, 1953. Class 23.

Cleveland Graphite Bronze Company, The, Cleveland, Ohio. Engine parts. 576,105, June 16; Serial No. 635,084, published Mar. 31, 1953. Class 23.

Cleveland Heater Company, The, Cleveland, Ohio. Gas water heaters and their structural parts. 303,556, renewed May 30, 1953. O. G. June 16. Class 34.

Coast Insulating Products, Los Angeles, Calif. Rock wool. 575,760, June 16; Serial No. 541,513, published Feb. 17, 1953. Class 12.

Cohen, Isaac, & Son Clothes Co., Inc., New York, N. Y. Men's topcoats and overcoats. 575,816, June 16; Serial No. 604,421, published Mar. 10, 1953. Class 39.

Colorvue Screen Company: *See*—
Epsen, Edward J.

Commonwealth Color & Chemical Company, New York, N. Y. Non-ionic, fatty arid ester type dispersing agent. 575,934, June 16; Serial No. 625,254, published Mar. 17, 1953. Class 52.

Comfort Manufacturing Company, Chicago, Ill. Astringents, astringent cerates, bleach creams, etc. 304,491, renewed July 11, 1953. O. G. June 16. Class 51.

Compagnie Generale de Telegraphie Sans Fil, Paris, France. Electronic tubes. 575,946, June 16; Serial No. 625,890, published Mar. 31, 1953. Class 21.

Compagnie Internationale Des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium. Machines for the manufactuee of concrete. 301,723, renewed Mar. 14, 1953. O. G. June 16. Class 23.

Comunidad Vina San Jose-Tocornal, Santiago, Chile. Burgundy wine. 575,914, June 16; Serial No. 623,126, published Mar. 24, 1953. Class 47.

Conductive Hospital Accessories Corporation, Boston, Mass. Slippers. 575,999, June 16; Serial No. 629,989, published Mar. 24, 1953. Class 39.

Continental Screw Company, New Bedford, Mass. Screws, bolts, nuts, etc. 576,159, June 16; Serial No. 634,733. Class 13.

Cook, Dave, Sporting Goods Co., Denver, Colo. Spelled and unspelled fishing hooks. 575,834, June 16; Serial No. 610,834, published Mar. 31, 1953. Class 22.

Core, John Calvin, Jr., Huntington, W. Va. Non-alcoholic, maltless soft drinks. 576,017, June 16; Serial No. 630,987, published Mar. 3, 1953. Class 45.

Corn Products Refining Company, New York, N. Y. Monthly publication. 304,186, renewed June 27, 1953. O. G. June 16. Class 38.

Cott Beverage Corporation, New Haven, Conn. Carbonated nonalcoholic maltless beverages. 575,871, June 16; Serial No. 618,290, published Mar. 10, 1953. Class 45.

Crane & Co. Inc.: *See*—
Eaton, Crane & Pike Company.

Creamette Company, The, Minneapolis, Minn. Macaroni shells; ready-cut spaghetti; thin spaghetti, etc. 576,129, June 16; Serial No. 640,728, published Mar. 24, 1953. Class 46.

Crest Foods Co., Ashton, Ill. Stabilizer including vegetable gum and pectin. 575,888, June 16; Serial No. 620,874, published Mar. 17, 1953. Class 46.

Crest Foods Co., Ashton, Ill. Stabilizer suitable for use in frozen desserts. 575,889, June 16; Serial No. 620,875, published Mar. 17, 1953. Class 46.

Crisafulli, Stefano, New York, to Bonoll Packing Corporation, Brooklyn, N. Y. Olive oil. 304,230, renewed June 27, 1953. O. G. June 16. Class 46.

Crown Cork & Seal Company, Inc.: *See*—
New Process Cork Company.

Crucible Steel Company of America: *See*—
Halcomb Steel Company.

Cummings, A. J., Co., Clinton, Iowa. Blank or partially printed certificates. 575,907–8, June 16; Serial Nos. 622,763–4, published Feb. 17, 1953. Class 37.

Cummins-Chicago Corp., Chicago, Ill. Portable electric tools. 575,929, June 16; Serial No. 624,875, published Mar. 24, 1953. Class 21.

Curtis, Wilbur, Company, Inc., Los Angeles, Calif. Glass vacuum coffee makers. 576,141, June 16; Serial No. 600,164. Class 13.

Dache, Lilly, Inc., New York, N. Y. Women's hats, dresses, gloves, etc. 575,986, June 16; Serial No. 629,499, published Feb. 3, 1953. Class 39.

Daimler-Benz Aktiengesellschaft: *See*—
Daimler-Motoren-Gesellschaft.

Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Electric motors, ignition-batteries, accumulators, etc. 90,874, re-renewed Apr. 1, 1953. O. G. June 16. Class 21.

Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Machinery castings, anchors, bed-plates, etc. 91,855, re-renewed June 8, 1953. O. G. June 16. Class 14.

Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Hammers, chisels, spanners, etc. 93,081, re-renewed Aug. 19, 1953. O. G. June 16. Class 23.

Danflou, Jean, Paris, France. Champagne wines. 575,966, June 16; Serial No. 628,260, published Mar. 24, 1953. Class 47.

Dan River Mills, Incorporated: *See*—
Riverside & Dan River Cotton Mills, Inc.

Dautrich, Herbert, Stony Creek Mills, Pa. Entertainment service. 576,167, June 16; Serial No. 620,665. Class 107.

Davidson Brothers Corp., The, New York, N. Y. Ladies' and misses' slips and nightgowns. 541,240, Apr. 17, 1951. Canceled May 1, 1953. O. G. June 16. Class 39.

Dawnwood Farms: *See*—
Long, Dorothy A.

Day, J. H., Company, Incorporated, The, Cincinnati, Ohio. Bakery equipment. 575,848, June 16; Serial No. 618,123, published Feb. 24, 1953. Class 23.

Daystrom, Incorporated, Elizabeth, N. J. Embossed or mechanically grooved sound recording and reprodneing tape. 575,944, June 16; Serial No. 626,446, published Mar. 31, 1953. Class 36.

Daystrom, Incorporated, Elizabeth, N. J. Wood-plastic furniture. 575,981, June 16; Serial No. 629,234, published Mar. 17, 1953. Class 32.

Dayton Rubber Company, The, Dayton, Ohio. Pillows and mattresses. 576,069, June 16; Serial No. 634,837, published Mar. 31, 1953. Class 32.

Decatur Milling Company, Inc.: *See*—
American Hominy Company.

Denison Mattress Factory, Denison, Tex. Mattresses and box springs. 575,939, June 16; Serial No. 625,663, published Mar. 31, 1953. Class 32.

Dental Applied Research Laboratory: *See*—
Wolfram, R. Sutter.

De Quenin Oller, Frederico P., Madrid, Spain. Flavoring extracts, vegetable oil, meat and vegetable sauces, etc. 575,839, June 16; Serial No. 611,144, published Mar. 17, 1953. Class 46.

Devoe & Raynolds Company, Inc., New York, N. Y. Wallpapers. 576,038, June 16; Serial No. 632,060, published Feb. 24, 1953. Class 37.

Domogalla, Bernard, doing business as Applied Biochemists and Associates, Butler, Wis. Algaecides and water treating compounds. 576,127, June 16; Serial No. 639,693, published Mar. 24, 1953. Class 6.

Donovan Enterprises, Saugatuck, Conn. Bibs. 575,954, June 16; Serial No. 627,427, published Mar. 10, 1953. Class 39.

Dougherty, Videll, doing business under the style and title of Polly-Dell Textile Stencils, Glasco, Kans. Stencils. 576,043, June 16; Serial No. 632,115, published Feb. 24, 1953. Class 37.

Drackett Company, The, Cincinnati, Ohio. Air freshener preparation. 576,114, June 16; Serial No. 635,746, published Mar. 24, 1953. Class 6.

Drew, E. F., & Co., Inc., New York, N. Y. Edible soya bean oils. 575,832, June 16; Serial No. 610,616, published Mar. 24, 1953. Class 46.

Driver-Harris Company, Harrison, N. J. Wire especially adapted for electrical purposes. 304,738, renewed July 18, 1953. O. G. June 16. Class 21.

Driver-Harris Company, Harrison, N. J. Wire especially adapted for electrical purposes. 304,741, renewed July 18, 1953. O. G. June 16. Class 21.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Nets for use in the fishing industry. 575,992, June 16; Serial No. 629,770, published Mar. 31, 1953. Class 22.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 438,943, May 18, 1948. Republished June 16. Class 1.

Eagle Signal Corporation, Moline, Ill. Electrically operated, switch actuated, motor driven circuit timers. 575,796, June 16; Serial No. 592,557, published Feb. 3, 1953. Class 26.

East European Fund, Inc., doing business under the name of Chekhov Publishing House of the East European Fund, Inc., New York, N. Y. Books. 575,993, June 16; Serial No. 629,782, published Mar. 17, 1953. Class 38.

Eastern Packing Company, Inc., Linden, N. J. Chopped horse meat. 575,793, June 16; Serial No. 591,286, published Mar. 24, 1953. Class 46.

Easy Method Auto Driver Training School Inc., Washington, D. C. Auto driver training. 576,135, June 16; Serial No. 628,681, published Mar. 31, 1953. Class 107.

Eaton, Crane & Pike Company, Pittsfield, to Crane & Co. Inc., Dalton, Mass. Writing-paper, printing-paper, envelopes, etc. 93,084, re-renewed Aug. 19, 1953. O. G. June 16. Class 37.

Edcraft Corporation, New York, N. Y. Picture puzzles. 576,153, June 16; Serial No. 624,188. Class 22.

Ed-U-Cards: *See*—
Brambier, Irving.

Elektrogerätebau Ceslwid G. m. b. H., Erlangen, Germany. Rod-shaped electric heating resistors. 575,830, June 16; Serial No. 610,169, published Mar. 31, 1953. Class 21.

Elier, Marlin, Deerfield Beach, Fla. Combination clearing and cultivating farm implement. 575,856, June 16; Serial No. 615,374, published Feb. 24, 1953. Class 23.

Ellmore Silver Co., Inc., The, assignee: *See*—
Amston Silver Company, Inc.

Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton piece goods. 575,787, June 16; Serial No. 589,571, published Mar. 31, 1953. Class 42.

Engelman, Alex E., El Centro, Calif. Fresh vegetables and melons. 576,119, June 16; Serial No. 636,516, published Mar. 24, 1953. Class 46.

Epp, Reverend Theodore, Lincoln, Nebr. Promoting interest in religion and the Bible. 576,133, June 16; Serial No. 620,987, published Mar. 31, 1953. Class 100.

Epsen, Edward J., doing business under the name Colorvue Screen Company, Omaha, Nebr. Multicolor filter screen. 576,149, June 16; Serial No. 616,906. Class 26.

Erwin Mills, Inc.: *See*—
Gribbon, Lange & Steven.

Essex Manufacturing Co. Inc., New York, N. Y. Umbrella display stands. 576,006, June 16; Serial No. 630,482, published Mar. 31, 1953. Class 32.

Eatey Piano Corp., Bluffton, Ind. Pianos. 575,952, June 16; Serial No. 627,257, published Mar. 31, 1953. Class 36.

Etablissements "Le Simplex" L. Juy: *See*—
Juy, Lucien.

Euclid Candy Company of California, Inc., San Francisco, Calif. Candy. 303,011, renewed May 9, 1953. O. G. June 16. Class 46.

Evans Industries, Inc., Marion, Ind. Canned dog food. 576,014, June 16; Serial No. 630,928, published Mar. 17, 1953. Class 46.

Faber, A. W., Inc.: *See*—
Faber-Castell, A. W., Pencil Company, Incorporated.

Faber-Castell, A. W., Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc. Wood encased lead pencils, crayons, rubber erasers, etc. 575,753, June 16; Serial No. 516,064, published Mar. 3, 1953. Class 37.

Faber-Castell, A. W., Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc. Lead pencils, crayons, ink pencils, etc. 575,754, June 16; Serial No. 520,098, published Feb. 24, 1953. Class 37.

Falstaff Brewing Corporation: *See*—
Lemp, Wm. J., Brewing Co.

Fansteel Metallurgical Corporation, North Chicago, Ill. Tantalum oxide, tantalum carbide, sodium tungstate, etc. 576,126, June 16; Serial No. 639,622, published Mar. 24, 1953. Class 6.

Farnsworth, Ednah H., Cuba, N. Y. Baked goods. 576,018, June 16; Serial No. 631,053, published Mar. 17, 1953. Class 46.

Federal Enterprises, Inc., Chicago, Ill. Electrically operated sirens. 575,973, June 16; Serial No. 628,685, published Mar. 31, 1953. Class 21.

Feldstein, Morris, & Son, Inc., New York, N. Y. Top lifts, tapa and strips for heels and soles for shoes. 576,009, June 16; Serial No. 630,773, published Mar. 24, 1953. Class 39.

Fenway Coats, Inc., New York, N. Y. Women's and misses' coats. 371,416, Sept. 26, 1939. Republished June 16. Class 39.

Fenwick, James, Company, Portland, Oreg. Canned and frozen vegetables, and canned fruits. 575,866, June 16; Serial No. 617,583, published Mar. 24, 1953. Class 46.

Ferroxcube Corporation of America, New York, N. Y. Permanent ferrite magnets. 575,980, June 16; Serial No. 629,194, published Mar. 31, 1953. Class 21.

Fisher Dairy and Cheese Company, Wapakoneta, Ohio. Cheese. 524,333, Apr. 25, 1950. Canceled Apr. 24, 1953. O. G. June 16. Class 46.

Fisher Dairy and Cheese Company, Wapakoneta, Ohio. Cheese. 525,912, June 6, 1950. Canceled Apr. 24, 1953. O. G. June 16. Class 46.

Flood Safety Products Company, Chicago, Ill. Plastic cover lens. 575,780, June 16; Serial No. 586,156, published Feb. 3, 1953. Class 26.

Florida Frozen Fish Products, Inc., Sarasota, Fla. Frozen shrimp. 576,065, June 16; Serial No. 633,052, published Mar. 17, 1953. Class 46.

Ford, J. B., Company, The, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning compound. 301,519, renewed Mar. 7, 1953. O. G. June 16. Class 52.

Foreman Brothers, Fresno, Calif. Real estate brokerage. 576,166, June 16; Serial No. 612,998. Class 102.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper towels, paper napkins, etc. 575,798, June 16; Serial No. 593,341, published Feb. 24, 1953. Class 37.

Foundation Laboratories, Inc.: *See*—
Syntex Veterinary Products Co., Inc.

Four Guys Products, Inc., New York, N. Y. Toy novelty. 576,070, June 16; Serial No. 633,763, published Mar. 31, 1953. Class 22.

Franklin Textile Corporation, New York, N. Y. Sheets, pillow-cases and sheeting. 305,166, renewed Aug. 8, 1953. O. G. June 16. Class 42.

Franklin Textile Corporation, New York, N. Y. Cotton fabrics, towels, pillow cases, etc. 305,286, renewed Aug. 8, 1953. O. G. June 16. Class 42.

Freeman Shoe Corporation, Beloit, Wis. Men's shoes. 576,074, June 16; Serial No. 633,575, published Mar. 24, 1953. Class 39.

Fuhrman, Emil, New York, N. Y. Men's shoes, dress, negligee, and work shirts, neckties, etc. 575,932, June 16; Serial No. 625,067, published Mar. 24, 1953. Class 39.

G. P. Food Distributors: *See*—
Balderacchi, John J.

Gelgy Company, Inc., New York, N. Y. Insecticide. 576,145, June 16; Serial No. 607,382. Class 6.

General Aniline & Film Corporation, New York, N. Y. Photographic chemicals. 575,854, June 16; Serial No. 614,296, published Mar. 4, 1952. Class 6.

Georgia-Carolina Dairies: *See*—
Borden Company, The.

Getz Bros. & Co., San Francisco, Calif. Fractional horsepower electric motor rheostat controls. 576,028, June 16; Serial No. 631,554, published Mar. 31, 1953. Class 21.

Gibbs & Company, Incorporated, Baltimore, Md. Canned vegetables, canned fruits, canned hominy, etc. 305,918, renewed Aug. 29, 1953. O. G. June 16. Class 46.

Gilbert, A. C., Company, The, New Haven, Conn. Electric fans, electric beverage mixers, electric motors, etc. 301,576, renewed Mar. 7, 1953. O. G. June 16. Class 21.

Gilbert, A. C., Company, The, New Haven, Conn. Electrical vibrators for therapeutical use and electric hair dryers. 302,126, renewed Mar. 28, 1953. O. G. June 16. Class 44.

Glenkyle Knitting Mills, Inc., Newark, N. J. Children's knit outerwear and children's beach-wear. 575,864, June 16; Serial No. 617,247, published Feb. 24, 1953. Class 39.

Glenray Sales & Mfg. Co., Quincy, Mich. Electrically operated machines. 575,967, June 16; Serial No. 628,353, published Mar. 17, 1953. Class 21.

Goble Disc Works, Fowler, Calif., assignor to The Massey-Harris Company, Racine, Wis. Earth working tools and parts thereof. 575,768, June 16; Serial No. 563,536, published Mar. 24, 1953. Class 23.

Goldberg, David A., Westwood, N. J. Men's wear. 576,011, June 16; Serial No. 630,839, published Mar. 10, 1953. Class 39.

Goldfarb, M.—My Florist Inc., New York, N. Y., and elsewhere in the United States. Flowers and plants. 576,139, June 16; Serial No. 590,152. Class 1.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Soles and heels. 576,059, June 16; Serial No. 632,670, published Mar. 24, 1953. Class 39.

Gordon Foods, Inc., Atlanta, Ga. Potato chips; popped corn; cookies; etc. 575,844, June 16; Serial No. 612,065, published Mar. 17, 1953. Class 46.

Goss Printing Press Company, The, Chicago, Ill. Power operated printing presses and parts thereof. 575,824, June 16; Serial No. 607,756, published Feb. 17, 1953. Class 23.

Goudie, R. A., & Sons, Providence, R. I. Engraving designs on textile rolls, etc. 576,165, June 16; Serial No. 605,213. Class 106.

Grace-LeeProducts Inc., Minneapolis, Minn. Antiseptic soap. 576,142, June 16; Serial No. 600,608. Class 52.

Grandpa Brands Company, Cincinnati, Ohio. Non-alcoholic, maltless beverage. 575,841, June 16; Serial No. 611,224, published Mar. 3, 1953. Class 45.

Gregor Chocolates, Inc., New York, N. Y. Candy. 576,138, June 16; Serial No. 578,389. Class 46.

Gribbon, Lange & Steven, New York, N. Y., to Erwin Mills, Inc., Durham, N. C. Cotton piece goods. 90,325, renewed Feb. 18, 1953. O. G. June 16. Class 42.

Griffin Chemical Company, San Francisco, Calif. Polyhydroxy alcohol-fatty acid esters. 576,121, June 16; Serial No. 636,930, published Mar. 17, 1953. Class 6.

Griffiths, Edward M., to Kasenit Limited, London, England. Chemical case-hardening material. 90,886, renewed Apr. 8, 1953. O. G. June 16. Class 6.

H. & K. Hosiery Co., New York, N. Y. Women's hosiery. 576,081, June 16; Serial No. 633,979, published Mar. 17, 1953. Class 39.

Haas, Haruch & Co., Los Angeles, Calif. Canned fruits, canned vegetables, canned fish, etc. 576,063, June 16; Serial No. 632,881, published Mar. 17, 1953. Class 46.

Haberle, Lawrence B., doing business under the name of Southwest Company, Jacksonville, Tex. All purpose sauce. 575,850, June 16; Serial No. 613,668, published Mar. 24, 1953. Class 46.

Hadley, Charles R., Company, Los Angeles, Calif. Accounting boards and record sheets and forms. 575,811, June 16; Serial No. 601,726, published Mar. 3, 1953. Class 37.

Haertel, Walter, Company, Minneapolis, Minn. Fur and garment cleaning and storage services. 576,130, June 16; Serial No. 557,605, published Sept. 26, 1950. Class 103.

Haertel, Walter, Company, Minneapolis, Minn. Fur and garment cleaning and storage services. 576,131, June 16; Serial No. 557,606, published Oct. 10, 1950. Class 103.

Hahn Department Stores, Inc., Wilmington, Del., by Allied Stores Corporation, New York, N. Y. Women's ready-to-wear and accessories. 302,058, Mar. 28, 1933. Republished June 16. Class 39.

Hahn, William, & Company, Washington, D. C. Shoes. 575,765, June 16; Serial No. 552,376, published Mar. 24, 1953. Class 39.

Halcomb Steel Company, Syracuse, to Crucible Steel Company of America, New York, N. Y. Crucible-steel, electric steel, and high-speed steel. 91,865, re-renewed June 13, 1953. O. G. June 16. Class 14.

Haloid Company, The, Rochester, N. Y. Developera consisting of a mixture of electroscopic powder and granular material, etc. 576,118, June 16; Serial No. 636,288, published Mar. 17, 1953. Class 6.

Handel Society, Inc., New York, N. Y. Mechanically grooved phonograph records. 575,831, June 16; Serial No. 610,304, published Mar. 31, 1953. Class 36.

Harvitz, Abe M., doing business under the name Los Angeles Sportogs Company, Los Angeles, Calif. Men's, women's and boys' leather outer garments. 576,015, June 16; Serial No. 630,934, published Mar. 10, 1953. Class 39.

Hastinge, A. W., & Co. Inc., Somerville, Mass. Metal molding. 575,942, June 16; Serial No. 626,327, published Feb. 17, 1953. Class 12.

Hecker, B., Co., New York, N. Y. Shower slippers and clogs. 576,046, June 16; Serial No. 632,372, published Mar. 24, 1953. Class 39.

Heller, William, Incorporated, New York, N. Y. Piece goods. 575,961, June 16; Serial No. 627,879, published Mar. 31, 1953. Class 42.

Hettrick Manufacturing Company, The, Toledo, Ohio. Hunting clothes. 575,836, June 16; Serial No. 610,908, published Mar. 10, 1953. Class 39.

Heyden Chemical Corporation, New York, N. Y. Penicillin preparation. 575,897, June 16; Serial No. 621,824, published Feb. 17, 1953. Class 18.

High Precision, Incorporated, Hamden, Conn. Clutches and clutch and shaft assemblies. 576,091, June 16; Serial No. 634,371, published Mar. 10, 1953. Class 23.

Hilltop Farm Feed Company, Minneapolis, Minn. Poultry feed. 414,331, June 5, 1945. Restricted. O. G. June 16. Class 46.

Hoak Packing Company, Inc., Fresno, Calif. Fresh grapes. 576,083, June 16; Serial No. 634,086, published Mar. 24, 1953. Class 46.

Hobart Electric Mfg. Co., The, to The Hobart Manufacturing Company, Troy, Ohio. Electric coffee-mills, electric meat-choppers, electric bone-grinders, etc. 92,217, re-renewed June 24, 1953. O. G. June 16. Class 21.

Hobart Manufacturing Company, The: *See*—
Hobart Electric Mfg. Co., The.

Hobbs Manufacturing Company, Worcester, Mass. Die presses. 576,066, June 16; Serial No. 633,056, published Feb. 17, 1953. Class 23.

House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' coats, suits, jackets and skirts. 576,094, June 16; Serial No. 634,094, published Mar. 24, 1953. Class 39.

Howard's Automotive and Racing Cams: *See*—
Johansen, Howard A.

Hubbs & Corning Company, by Hubbs Corporation, Baltimore, Md. Wrapping and toilet papers. 294,487, May 31, 1932. Republished June 16. Class 37.

Hubbs Corporation: *See*—
Hubbs & Corning Company.

Hughes, James B.: *See*—
Skoot Company, The.

Hull Dye Works, Derby, Conn. Dyeing and finishing fabrics. 576,168, June 16; Serial No. 632,940. Class 106.

Hunter-Wilson Distilling Co. Inc., Bristol, Pa., and New York, N. Y. Alcoholic beverages. 576,101, June 16; Serial No. 634,900, published Mar. 24, 1953. Class 49.

Huter-Quest & Co., Inc., Louisville, Ky. Fruit acid solution for food purposes, baking powder, fondants, etc. 575,943, June 16; Serial No. 626,328, published Mar. 17, 1953. Class 46.

Huth-James Shoe, Inc., Milwaukee, Wis. Men's leather shoes. 576,022, June 16; Serial No. 631,160, published Mar. 24, 1953. Class 39.

Imperial Chemical Industries Limited, London, England. Detonators and safety fuses. 576,040, June 16; Serial No. 631,933, published Mar. 17, 1953. Class 9.

Imperial Knife Company, Inc., Providence, R. I. Pocket knives. 575,762, June 16; Serial No. 546,704, published Feb. 17, 1953. Class 23.

Imperial Knife Company, Inc., Providence, R. I. Flatware of base metal. 576,161, June 16; Serial No. 636,528. Class 23.

Indoken Perlite Company, St. Bernard, Ohio. Aggregate for fertilizer. 576,087, June 16; Serial No. 634,256, published Mar. 24, 1953. Class 10.

Industrial Lamp Corporation, Elkhart, Ind. Electrical desk, table, and pin up lamps. 576,036, June 16; Serial No. 631,868, published Mar. 24, 1953. Class 21.

International Paper Company, New York, N. Y. Kraft paperboard. 576,053, June 16; Serial No. 632,564, published Feb. 24, 1953. Class 37.

International Pulverizing Corporation, Camden, N. J. Pulverized limestone, sold as an ingredient of paint. 321,034, Jan. 15, 1935. Canceled May 1, 1953. O. G. June 16. Class 16.

International Pulverizing Corporation, Camden, N. J. Pulverized carbons, etc. 323,734, Apr. 30, 1935. Canceled May 1, 1953. O. G. June 16. Class 1.

International Register Company, Chicago, Ill. Coin-operated time switches. 575,801, June 16; Serial No. 594,717, published Feb. 3, 1953. Class 26.

Isenberg, Rudolf A., Palo Alto, Calif. Breakfast food. 575,860, June 16; Serial No. 616,033, published Mar. 17, 1953. Class 46.

Jensen-McLean Co., Inc., Seattle, Wash. Textile products. 575,894, June 16; Serial No. 621,561, published Mar. 31, 1953. Class 42.

Jets Inc., New York, N. Y. Shirts. 575,977, June 16; Serial No. 629,025, published Mar. 10, 1953. Class 39.

Jiffy Specialty Mfg. Co., Inc.: *See*—
Uttz, William A.

Johansen, Howard A., doing business under the firm name of Howard's Automotive and Racing Cams, Los Angeles, Calif. Reground cam shafts. 576,158, June 16; Serial No. 633,405. Class 23.

Johnson, Lorenzo, doing business as Johnson's Nox-Static Labs, Dallas, Tex. Chemical preparation. 576,155, June 16; Serial No. 625,014. Class 6.

Johnson, S. C., & Son, Inc., Racine, Wis. Long-handled cloth-faced applicator. 575,892, June 16; Serial No. 621,519, published Mar. 24, 1953. Class 29.

Johnson, S. C., & Son, Inc., Racine, Wis. Liquid polish. 576,163, June 16; Serial No. 640,317. Class 4.

Johnson's Nox-Static Labs: *See*—
Johnson, Lorenzo.

Juy, Lucien, doing business under the name Etablissements "Le Simplex" L. Juy, Dijon, Cote-d'Or, France. Change-speed gears, quick-release wheel bearings, etc. 575,781, June 16; Serial No. 586,974, published Mar. 10, 1953. Class 23.

Kagran Corporation, assignee: *See*—
Smith, Robert E.

Kansas City White Goods Manufacturing Company: *See*—
Snower, William.

Kasenit Limited: *See*—
Griffiths, Edward M.

Kaufmann Bros. & Bondy, Inc., to The Reiss-Premier Corporation, West New York, N. J. Pipes. 301,592, renewed Mar. 7, 1953. O. G. June 16. Class 8.

Kaynee Company, The, Cleveland, Ohio. Boys' shirts. 302,205, renewed Apr. 4, 1953. O. G. June 16. Class 39.

Keasbey & Mattison Company, Ambler, Pa. Asbestos-cement product. 300,366, renewed Jan. 17, 1953. O. G. June 16. Class 12.

Kennedy, Woodford A.: *See*—
Wak Incorporated.

Kester Solder Company, Chicago, Ill. Solder. 303,268, renewed May 16, 1953. O. G. June 16. Class 14.

Kester Solder Company, Chicago, Ill. Solder. 303,279, renewed May 16, 1953. O. G. June 16. Class 14.

Kester Solder Company, Chicago, Ill. Soldering fluxes. 304,081, renewed June 20, 1953. O. G. June 16. Class 6.

Keuffel & Esser Company, Hoboken, N. J. Measuring tapes. 575,805, June 16; Serial No. 598,534, published Feb. 3, 1953. Class 26.

Keystone Cabinet Company, Littlestown, Pa. Kitchen cabinets. 576,095, June 16; Serial No. 634,598, published Mar. 31, 1953. Class 32.

Keystone Packing Co., Ilwaco, Wash. Canned salmon. 576,008, June 16; Serial No. 630,712, published Mar. 17, 1953. Class 46.

King Cotton, Inc., Dalton, Ga. Chenille bedspreads, chenille and loop rugs, chenille tufted yard goods, etc. 575,960, June 16; Serial No. 627,824, published Nov. 18, 1952. Class 42.

Kisky, J. B., Co.: *See*—
Kisky, John B.

Kisky, John B., doing business as J. B. Kisky Co., Portland, Oreg. Flavored coatings for frozen confections and a vegetable oil used as a thinner for said coatings. 576,062, June 16; Serial No. 632,841, published Mar. 24, 1953. Class 46.

Kling Photo Supply Corporation, assignee: *See*—
Peerless Camera Stores, Inc.

Knapp-Monarch Company, St. Louis, Mo. Electrical appliances. 575,817, June 16; Serial No. 604,584, published Mar. 17, 1953. Class 21.

Kohler Co., Kohler, Wis. Paste. 301,822, renewed Mar. 14, 1953. O. G. June 16. Class 5.

Kohler Co., Kohler, Wis. Heating boilers and radiators. 303,273, renewed May 16, 1953. O. G. June 16. Class 34.

Koret, Samuel, New York, N. Y. Handbags. 367,770, May 30, 1939. Republished June 16. Class 3.

Kovacs, Louis, doing business as Kovax Products, New York, N. Y. Men's and women's belts. 576,051, June 16; Serial No. 632,481, published Feb. 24, 1953. Class 39.

Kovax Products: *See*—
Kovacs, Louis.

Laird & Co., Inc., Eatontown, to Laird & Co., Inc., Scobeyville, N. J. Vinegar. 305,903, renewed Aug. 29, 1953. O. G. June 16. Class 46.

La Marche, Austin W., doing business as La Marche Mfg. Co., Chicago, Ill. Electrical converters. 575,945, June 16; Serial No. 626,579, published Mar. 31, 1953. Class 21.

La Marche Mfg. Co.: *See*—
La Marche, Austin W.

Lamson and Goodnow Manufacturing Company, Shelburne Falls, Mass. Butchers', bakers', druggists', and painters' tools. 576,136, June 16; Serial No. 534,452. Class 23.

Lanak-Roehl Mfg. Co., Minneapolis, Minn. Ink marking pens. 576,047, June 16; Serial No. 632,380, published Feb. 24, 1953. Class 37.

Large Charge Corporation of America, Inc., Tarpon Springs, Fla. Food seasoning. 576,032, June 16; Serial No. 631,625, published Mar. 17, 1953. Class 46.

Latil Corporation, New York, N. Y. Technical or engineering services. 576,164, June 16; Serial No. 534,536. Class 100.

Laudar Company, The, Thomson, Ga. Partially printed forms. 575,829, June 16; Serial No. 610,131, published Feb. 24, 1953. Class 37.

Laudar Company, The, Thomson, Ga. Partially printed forms. 575,835, June 16; Serial No. 610,853, published Feb. 24, 1953. Class 37.

Leadway Stores Corporation: *See*—
Leadway Stores Corporation, The.

Leadway Stores Corporation, The, Wilmington, Del., to Leadway Stores Corporation, San Francisco, Calif. Canned fruits. 301,329, renewed Feb. 28, 1953. O. G. June 16. Class 46.

Leadway Stores Corporation, The, Wilmington, Del., to Leadway Stores Corporation, San Francisco, Calif. Salad dressing, vinegar, canned vegetables. 303,133, renewed May 9, 1953. O. G. June 16. Class 46.

Lederwarenfabrik Kritzler K.-G., Rebbelroth, Rez. Koln (District Cologne) Germany. Suitcases, traincases, briefcases, etc. 572,564–5, Mar. 31, 1953. Corrected. O. G. June 16. Class 3.

Leeko Mfg. Co., Inc., New York, N. Y. Furniture. 576,092, June 16; Serial No. 634,375, published Mar. 17, 1953. Class 32.

Lee's, Mrs., Pies, Inc., Los Angeles, Calif. Pies, icebox cookie rolls, layer cakes, etc. 575,987, June 16; Serial No. 629,575, published Mar. 31, 1953. Class 46.

Lehon Company, The, Chicago, Ill. Celery bleaching paper, letterheads, billheads, etc. 444,776–7, June 16; Serial Nos. 520,738–9, published Feb. 3, 1953. Class 37.

Lemp, Wm. J., Brewing Co., to Falstaff Brewing Corporation, St. Louis, Mo. Beer. 40,948–9, re-renewed Aug. 18, 1953. O. G. June 16. Class 48.

Lerman, Monroe A., Long Island City, N. Y. Combination hand brake and throttle control. 576,151, June 16; Serial No. 620,546. Class 19.

Les Perfums Worth De Paris, Inc.: *See*—
Societe Worth.

Li & Fung, Ltd., Hong Kong, China. Firecrackers and fireworks. 576,106, June 16; Serial No. 635,089, published Mar. 24, 1953. Class 9.

Lindquist, Alexander O., New Britain, Conn. All-purpose sauce, meat sauce, fish sauce, etc. 576,012, June 16; Serial No. 630,848, published Mar. 17, 1953. Class 46.

Long, Dorothy A., doing business as Dawnwood Farms, Amenia, N. Y. Formula feed. 575,868, June 16; Serial No. 618,172, published Mar. 17, 1953. Class 46.

Los Angeles Sportogs Company: *See*—
Harvitz, Abe M.

Macdonald & Muir Limited, Leith, Scotland. Scotch whisky. 575,005, June 16; Serial No. 630,432, published Mar. 10, 1953. Class 49.

MacGregor Sport Products, Inc., Cincinnati, Ohio. Paraphernalia for all kinds of athletic contests. 576,102, June 16; Serial No. 634,945, published Mar. 31, 1953. Class 22.

Madrass-Fabriken Dux Aktiebolag, Malmo, Sweden. Chairs, easy chairs, sofas and beds, etc. 575,779, June 16; Serial No. 585,713, published Mar. 31, 1953. Class 32.

Maggie Magnetic, Inc.: *See*—
Magnetic Merchandising, Inc.

Magnatex Limited, Harlington, England. Motors. 575,909, June 16; Serial No. 622,837, published Mar. 10, 1953. Class 23.

Magnetic Merchandising, Inc., New York, N. Y., now by change of name Maggie Magnetic, Inc. Magnetic pencil holders and bulletin board assemblies. 575,780, June 16; Serial No. 590,902, published Feb. 24, 1953. Class 37.

Maier Brewing Company, Los Angeles, Calif. Beer. 575,890, June 16; Serial No. 620,921, published Mar. 3, 1953. Class 48.

Makowsky, Jacques, Pomfret Center, Conn. Dressed domestic guinea and dressed China geese. 575,782, June 16; Serial No. 587,441, published Mar. 17, 1953. Class 46.

Malahy, Andrew J., doing business as U. S. Optical Company, New York, N. Y. Sun-glasses. 576,140, June 16; Serial No. 598,087. Class 26.

Mallinckrodt Chemical Works, St. Louis, Mo. Light-sensitive, acid-resistant coating for use by photoengravers. 576,156, June 16; Serial No. 629,374. Class 6.

Marinette Paper Company: *See*—
Veldown Company, Inc.

Markwell Manufacturing Company, Inc., New York, N. Y. Hand-operated stapling machines. 576,152, June 16; Serial No. 623,803. Class 23.

Marshall Burns, Inc., Chicago, Ill. Knives, forks, spoons, etc. 575,921, June 16; Serial No. 623,973, published Mar. 10, 1953. Class 23.

Martin Fireproofing Corporation, Buffalo, N. Y. Saws. 575,847, June 16; Serial No. 612,458, published Mar. 10, 1953. Class 23.

Martini & Rossi Corporation, New York, N. Y. Vermouth. 575,915, June 16; Serial No. 623,151, published Mar. 3, 1953. Class 47.

Martin's, Brooklyn, N. Y. Handmade dresses and slips, coats and bonnets, snowsuits, etc. 575,873, June 16; Serial No. 618,973, published Mar. 17, 1953. Class 39.

Massey-Harris Company, The, assignee: *See*—
Goble Disc Works.

McCarthy, Elizabeth, Glendale, Calif. Card game. 575,924, June 16; Serial No. 624,283, published Mar. 31, 1953. Class 22.

McGee, Hugh C. N., Dry Ridge, Ky. Live bait containers. 576,115, June 16; Serial No. 633,880, published Mar. 31, 1953. Class 22.

Menasha Products Company, Menasha, Wis. Paper napkins. 338,716, Sept. 15, 1936. Canceled May 15, 1953. O. G. June 16. Class 37.

Menasha Products Company, The, Menasha, Wis. Paper napkins. 335,219, May 26, 1936. Canceled May 15, 1953. O. G. June 16. Class 37.

Mennen Company, The, Newark, N. J. After-shave lotion, a deodorant, and a hair preparation. 576,098, June 16; Serial No. 634,640, published Feb. 17, 1953. Class 51.

Mercury Chemical Corporation, Chicago, Ill. Refinisher for leather. 576,120, June 16; Serial No. 636,792, published Mar. 17, 1953. Class 6.

Merry Manufacturing Co., Bothell, Wash. Garden cultivator. 575,877, June 16; Serial No. 619,764, published Mar. 10, 1953. Class 23.

Metal Electric Processing Company, The, Toledo, Ohio. Copper brazing of steel parts. 576,134, June 16; Serial No. 621,076, published Mar. 31, 1953. Class 106.

Metro Dyestuff Corporation, West Warwick, R. I. Dyes, pigments, water-repellents, etc. 576,125, June 16; Serial No. 639,585, published Mar. 17, 1953. Class 6.

Metropolitan Shoemakers, Inc., Chicago, Ill. Ladies' shoes. 575,818, June 16; Serial No. 604,856, published Mar. 24, 1953. Class 39.

Meyer, Emanuel M., New York, N. Y. Ladies' and children's shoes. 575,884, June 16; Serial No. 620,520, published Mar. 24, 1953. Class 39.

Michels, Peter J., Inc., Brooklyn, N. Y. Barbers' razors and shears. 575,941, June 16; Serial No. 625,914, published Jan. 20, 1953. Class 23.

Midtown Manufacturing Corp., New York, N. Y. Plastic hanger frames for holding price tags. 575,906, June 16; Serial No. 622,612, published Mar. 24, 1953. Class 37.

Milani, Louis, Foods, Inc., Los Angeles, Calif. Sauce. 575,950, June 16; Serial No. 627,000, published Mar. 24, 1953. Class 46.

Miller and Rhoads, Incorporated, Richmond, Va. Sterling silver flatware, silver plated flatware, sterling silver or silver plated hollowware, etc. 575,912, June 16; Serial No. 623,108, published Mar. 17, 1953. Class 28.

Miller and Rhoads, Incorporated, Richmond, Va. Household cleaning brushes; dust cloths, and silverware polishing cloths. 575,913, June 16; Serial No. 623,109, published Mar. 24, 1953. Class 29.

Milwaukee Chair Company, Milwaukee, Wis. Chairs. 575,985, June 16; Serial No. 629,447, published Mar. 31, 1953. Class 32.

Minot, Hooper & Co., New York, N. Y., to Textron Incorporated, Providence, R. I. Finished pillow cases. 301,483, renewed Mar. 7, 1953. O. G. June 16. Class 42.

Minot, Hooper & Co., New York, N. Y., to Textron Incorporated, Providence, R. I. Finished sheets. 301,485, renewed Mar. 7, 1953. O. G. June 16. Class 42.

Missouri Pickle Company, doing business under the name The Pickle Barrel, Los Angeles, Calif. Pickles and pickle relish. 575,957, June 16; Serial No. 627,592, published Mar. 17, 1953. Class 46.

Mohawk Motor Lines, Inc., Nashville, Tenn. Transportation of freight. 576,169, June 16; Serial No. 637,933. Class 105.

Monroe Company, The, Colfax, Iowa. Table tops. 576,084, June 16; Serial No. 634,154, published Mar. 17, 1953. Class 32.

Montecito Apparel, Inc., Santa Barbara, Calif. Ladies' and men's sportswear. 576,029, June 16; Serial No. 631,561, published Mar. 24, 1953. Class 39.

Moorman Manufacturing Company, Quincy, Ill. Mechanical feed mixer. 575,774, June 16; Serial No. 580,086, published Mar. 31, 1953. Class 23.

Morrison Steel Products Inc., Buffalo, N. Y. Utility truck body. 576,147, June 16; Serial No. 611,711. Class 19.

Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. 576,054, June 16; Serial No. 632,568, published Feb. 10, 1953. Class 23.

Mountain Laboratories, Inc., Warrenton, Va. Preparation for the treatment of calf scours. 575,988, June 16; Serial No. 629,681, published Feb. 17, 1953. Class 18.

Moyer Manufacturing Company, The, Youngstown, Ohio, and New York, N. Y. Men's trousers. 575,994, June 16; Serial No. 629,858, published Mar. 17, 1953. Class 39.

Muirhead & Co. Limited, Beckenham, Kent, England. Long distance transmitting and recording apparatus, and electro-sensitive recording paper. 575,851, June 16; Serial No. 614,055, published Mar. 24, 1953. Class 21.

Muller-Barringer, New York, N. Y. Occasional tables, end tables, cocktail tables, etc. 575,891, June 16; Serial No. 621,023, published Mar. 31, 1953. Class 32.

Murray Company of Texas, Inc., The, Dallas, Tex. Cotton gins, cotton feeders, cotton elevators, etc. 575,815, June 16; Serial No. 603,075, published Feb. 3, 1953. Class 23.

Murray Hill Restaurant, Inc., New York, N. Y. Condiment sauces; cooked wild rice; canned fish, etc. 575,840, June 16; Serial No. 611,191, published Mar. 24, 1953. Class 46.

Murray, Kay, Sportswear, Inc., Boston, Mass. Dresses, jackets, skirts, etc. 575,784, June 16; Serial No. 589,460, published Aug. 19, 1952. Class 39.

Mutual Stationers Supply Corporation, New York, N. Y. Staple removing devices. 575,953, June 16; Serial No. 627,272, published Mar. 10, 1953. Class 23.

National Milling and Chemical Company, Philadelphia, Pa. Soap compound, soap for laundry use, soap for textile trade, etc. 302,130, renewed Mar. 28, 1953. O. G. June 16. Class 4.

National Silver Company, New York, N. Y. Base metal table cutlery. 576,037, June 16; Serial No. 631,882, published Mar. 10, 1953. Class 23.

National Sure-Fit Quilting Co., Inc., New York, N. Y. Quilted mattress pads and protectors. 576,000, June 16; Serial No. 630,017, published Nov. 18, 1952. Class 42.

National Vitamin Corporation, Washington, D. C. Vitamin capsules. 575,863, June 16; Serial No. 616,439, published Feb. 17, 1953. Class 18.

Nehi Corporation, Columbus, Ga. Carbonated cola beverage. 575,759, June 16; Serial No. 533,043, published Mar. 3, 1953. Class 45.

Neiman-Marcus Company, Dallas, Tex. Mink skins and pelts. 576,085, June 16; Serial No. 634,158, published Mar. 17, 1953. Class 1.

New Art Shop: *See*—
Bombara, Carlo.

New England Shank Co., Inc., Hillsborough, N. H., and Somerville, Mass. Shanks for shoes. 576,019, June 16; Serial No. 631,065, published Mar. 24, 1953. Class 39.

New Process Cork Company, New York, N. Y., to Crown Cork & Seal Company, Inc., Baltimore, Md. Cork disks and washers. 92,965, re-renewed Aug. 5, 1953. O. G. June 16. Class 50.

New York Knitting Mills, Inc., New York, N. Y. Women's hosiery, fabric gloves, scarves, etc. 575,846, June 16; Serial No. 612,269, published Mar. 17, 1953. Class 39.

Nippon Gakki Seizo Kabushiki Kaisha, Hamamatsu-City, Japan. Harmonicas. 575,910, June 16; Serial No. 622,004, published Mar. 31, 1953. Class 36.

Noel Manufacturing Company, Inc., New York, N. Y. Display and exhibit lighting units. 575,883, June 16; Serial No. 620,359, published Mar. 31, 1953. Class 21.

Nopco Chemical Company, Harrison, N. J. Vitamin D concentrates. 575,978, June 16; Serial No. 629,180, published Feb. 24, 1953. Class 18.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion engines. 576,033, June 16; Serial No. 631,733, published Jan. 20, 1953. Class 23.

Northeastern Plastics, Inc., Boston, Mass. Moistening for stamps, envelopes, gummed tape, etc. 575,989, June 16; Serial No. 629,685, published Mar. 10, 1953. Class 37.

Northern Star Plating and Finishing Co., Rockford, Ill. Fishing knives. 444,775, June 16; Serial No. 501,470, published Mar. 10, 1953. Class 23.

Notter, Conrad C.: *See*—
Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik.

Nox-Kwik Company, Baltimore, Md. Liniment. 304,567, renewed July 11, 1953. O. G. June 16. Class 18.

O. K. Tool Company, Inc., The, Milford, N. H. Cutters and holders therefor for lathes, shapers, planers and boring mills; boring heads, facing heads, etc. 576,111, June 16; Serial No. 635,489, published Mar. 31, 1953. Class 23.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Women's and girls' boots, skirts, belts, etc. 575,895, June 16; Serial No. 621,640, published Mar. 17, 1953. Class 39.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Hand lotion and colognes. 575,896, June 16; Serial No. 621,647, published Feb. 17, 1953. Class 51.

Oakley, Annie, Enterprises, Inc., assignee: *See*—
Oakley, Annie, Enterprises.

Omag Optik und Mechanik A. G., Neuallschwil-Basel, Switzerland. Photographic lenses, photographic optical filters, photographic enlargers, etc. 575,810, June 16; Serial No. 601,272, published Feb. 3, 1953. Class 26.

Orchard Paper Co., St. Louis, Mo. Merchandise wrapping paper. 575,936, June 16; Serial No. 625,489, published Feb. 24, 1953. Class 37.

Oxford Metal Spinning Co., Inc., also known as Oxford Metal Spinning Company, Inc., Philadelphia, Pa. Electrically operated china table and boudoir lamps and metal floor, and table and boudoir lamps. 575,917, June 16; Serial No. 623,428, published Mar. 24, 1953. Class 21.

Oxford Metal Spinning Company, Inc.: *See*—
Oxford Metal Spinning Co., Inc.

Oxford Paper Company, New York, N. Y. Paper. 304,707, renewed July 18, 1953. O. G. June 16. Class 37.

Palnallay Company, Inc., Findlay, Ohio. Denture cleanser. 575,995, June 16; Serial No. 629,860, published Feb. 17, 1953. Class 51.

Palm Beach Fabrics, Inc., Boynton Beach, Fla. Piece goods. 575,820, June 16; Serial No. 606,170, published Mar. 31, 1953. Class 42.

Palms Peanut Company, The, Albuquerque, N. Mex. French fried peanuts. 575,898, June 16; Serial No. 621,836, published Mar. 24, 1953. Class 46.

Pan Pharmacals, Inc., New York, N. Y. Pharmaceutical preparation. 575,843, June 16; Serial No. 612,030, published Feb. 17, 1953. Class 18.

Paper Manufacturers Co., Philadelphia, Pa. Small paper rolls. 575,790, June 16; Serial No. 590,943, published Feb. 10, 1953. Class 37.

"Parfums Christian Dior," Paris, Seine, France. Face and body creams, etc. 508,868, Apr. 19, 1949. Canceled Apr. 21, 1953. O. G. June 16. Class 51. (Formerly Class 6.)

Parke, Davis & Company, Detroit, Mich. Remedy for rheumatic affections. 82,115, re-renewed June 17, 1953. O. G. June 16. Class 18.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils and desk sets. 305,672, renewed Aug. 22, 1953. O. G. June 16. Class 37.

Paterson Parchment Paper Company, Bristol, Pa. Translucent and transparent types of parchmentized tracing papers. 575,927, June 16; Serial No. 624,702, published Feb. 24, 1953. Class 37.

Patterson, Stephen H., Jr., doing business as The Ampersand Press, Princeton, N. J. Books, pamphlets, brochures, etc. 570,120, Feb. 10, 1953. Corrected. O. G. June 16. Class 38.

Pearson, Evelyn, Inc., New York, N. Y. Women's wearing apparel. 575,931, June 16; Serial No. 625,025, published Mar. 24, 1953. Class 39.

Peek, Robert M., doing business as Superior Flour Co., Little Rock, Ark., assignor, by decree of distribution to R. M. Peek, Jr. Wheat flour, corn meal, poultry feed, etc. 575,771, June 16; Serial No. 575,086, published Mar. 24, 1953. Class 46.

Peek Robert M., Jr., assignee: *See*—
Peek Robert M.

Peerless Camera Stores, Inc., assignor to Kling Photo Supply Corporation, New York, N. Y. Photographic apparatus. 575,806, June 16; Serial No. 600,226, published Mar. 27, 1951. Class 26.

Pendleton Woolen Mills, Portland, Oreg. Men's outer shirts. 575,976, June 16; Serial No. 628,867, published Mar. 10, 1953. Class 39.

Peter, Paul, Inc., Naugatuck, Conn. Candy. 576,112, June 16; Serial No. 635,661, published Mar. 17, 1953. Class 46.

Pickle Barrel, The: *See*—
Missouri Pickle Company.

Pippin Construction Equipment, Inc., Hartford and White River Junction, Vt. Back hoe digger attachments. 576,162, June 16; Serial No. 639,143. Class 23.

Plotkin, Abe L., doing business as Youth-O-Pedic Shoe Center, Scranton, Pa. Shoes. 575,800, June 16; Serial No. 593,934, published Mar. 24, 1953. Class 39.

Polk Miller Products Corporation, Richmond, Va. Tick powder and flea powder. 576,010, June 16; Serial No. 632,688, published Mar. 17, 1953. Class 6.

Polly-Dell Textile Stencils: *See*—
Dougherty, Videll.

Prestige Chair Corporation, Newton, N. C. Upholstered furniture. 575,947, June 16; Serial No. 626,638, published Mar. 31, 1953. Class 32.

Price Battery Corporation: *See*—
Witherbee Storage Battery Co. Inc.

Price Cravat Co., Inc., New York, N. Y. Men's neckwear. 576,026, June 16; Serial No. 631,493, published Mar. 10, 1953. Class 39.

Prim Hosiery, Incorporated, Chester, Ill. Ladies' hosiery. 576,079, June 16; Serial No. 633,872, published Mar. 17, 1953. Class 39.

Prima Footwear Company: *See*—
Prima, Incorporated.

Prima, Incorporated, doing business as Prima Footwear Company, Columbus, Ohio. Women's and misses' shoes. 575,801, June 16; Serial No. 616,243, published Mar. 24, 1953. Class 39.

Publicker Commercial Alcohol Company, to Publicker Industries Inc., Philadelphia, Pa. Pure grain alcohol. 303,807, renewed June 6, 1953. O. G. June 16. Class 49.

Publicker Industries Inc.: *See*—
Publicker Commercial Alcohol Company.

Raab-Meyerhoff, M. H., Co., Inc., Philadelphia, Pa. Collars. 576,930, June 16; Serial No. 631,577, published Mar. 10, 1953. Class 39.

Rancher's Pride Foods, assignee: *See*—
Washington Creamery Company.

Red Wing Shoe Company, Inc., Red Wing, Minn., and Dallas, Tex. Men's and boys' leather shoes, boots, and oxfords. 575,773, June 16; Serial No. 578,898, published Mar. 24, 1953. Class 39.

Reed, H. B., & Company, Hammond, Ind. Roofing granules. 575,812, June 16; Serial No. 601,849, published Mar. 17, 1953. Class 12.

Reiff, Samuel S., doing business under the style and title of Reiff Shoe Co., Denver, Colo. Men's, women's, and children's moccasins. 575,958, June 16; Serial No. 627,601, published Mar. 3, 1953. Class 39.

Reiff Shoe Co.: *See*—
Reiff, Samuel S.

Reiss, Dr. Rudolf, Chemische Werke: *See*—
Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik.

Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, to C. C. Notter, doing business as Dr. Rudolf Reiss Chemische Werke, Berlin, Germany. Medicines for the treatment of venereal diseases, etc. 296,499, renewed Aug. 9, 1952. O. G. June 16. Class 18.

Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, to C. C. Notter, doing business as Dr. Rudolf Reiss Chemische Werke, Berlin, Germany. Suppositories, medicines against spasms of all kinds etc. 298,731, renewed Nov. 1, 1952. O. G. June 16. Class 18.

Reiss-Premier Corporation, The: *See*—
Kaufmann Bros. & Bondy, Inc.

Reico: *See*—
Reliance Merchandise Co., Inc.

Reliance Merchandise Co., Inc., doing business under the style Reico, Chicago, Ill. Pocket and hunting knives. 576,072, June 16; Serial No. 633,431, published Feb. 17, 1953. Class 23.

Remington Rand Inc., New York, N. Y. Filing cabinets. 575,766, June 16; Serial No. 557,558, published Mar. 17, 1953. Class 32.

Rice-Stix, Inc., St. Louis, Mo. Piece goods. 576,108, June 16; Serial No. 635,375, published Mar. 31, 1953. Class 42.

Riley, J. A., & Co., New York, N. Y. Knitted, netted, and textile fabrics. 575,845, June 16; Serial No. 612,136, published Mar. 31, 1953. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Sheets, sheeting and pillowcases. 430,686, June 17, 1947. Canceled Apr. 21, 1953. O. G. June 16. Class 42.

Roger, Henry, doing business as Rolab, Sandy Hook Conn. Sound film editing data. 575,870, June 16; Serial No. 619,550, published Feb. 3, 1953. Class 26.

Rolab: *See*—
Roger, Henry.

Rondout Metal Products Co., Inc., New York, N. Y. Folding canvas baby carriage adapted for use as an automobile bed. 576,025, June 16; Serial No. 631,377, published Mar. 31, 1953. Class 19.

Rose Manufacturing Company, Beacon, N. Y. Fungicides, insecticides, and disinfectants. 576,044, June 16; Serial No. 632,269, published Mar. 17, 1953. Class 6.

Roseth Corporation, Brooklyn, N. Y. Polyethylene laminated paper. 575,996, June 16; Serial No. 629,955, published Feb. 10, 1953. Class 37.

Rubber Corporation of California, The, Garden Grove, Calif. Canvas and rubber footwear. 576,064, June 16; Serial No. 632,903, published Mar. 24, 1953. Class 39.

Ruth Shoe Company, Newburyport, Mass. Shoes. 575,904, June 16; Serial No. 622,413, published Mar. 24, 1953. Class 39.

Ryder, W., & Co.: *See*—
Shields, Frank N.

S. & S. Cone Corporation, New York, N. Y. Ice cream cones. 301,170, renewed Feb. 21, 1953. O. G. June 16. Class 40.

Sagner's, A., Son, Baltimore, Md. Men's suits, pants, and overcoats. 576,010, June 16; Serial No. 630,800, published Mar. 10, 1953. Class 39.

Scanlan, E. S., doing business as The Aeroplane Spinner Manufacturing Co., Denver, Colo. Fishing spinners, artificial fish lures, and artificial bait. 576,016, June 16; Serial No. 630,904, published Mar. 31, 1953. Class 22.

Schalet-Pollack Corporation, New York, N. Y. Buttons. 575,783, June 16; Serial No. 587,825, published Jan. 20, 1953. Class 40.

Schenley Import Corporation, New York, N. Y. Canadian whiskey. 575,963, June 16; Serial No. 627,962, published Mar. 3, 1953. Class 40.

Schenley Import Corporation, New York, N. Y. Wines. 576,075, June 16; Serial No. 633,739, published Mar. 3, 1953. Class 47.

Scheuchzer, Auguste, Lausanne, Switzerland. Railway bed maintenance machines. 576,038, June 16; Serial No. 631,894, published Mar. 10, 1953. Class 23.

Schlunderberg, Wm.-T. J. Kurdle Company, The, Baltimore, Md. Chickens. 576,061, June 16; Serial No. 632,694, published Mar. 17, 1953. Class 46.

Schmikler, Henry, doing business as White Holland Farm, Whitman, Mass. Dressed turkeys and turkey meat. 576,123, June 16; Serial No. 637,335, published Mar. 31, 1953. Class 46.

Schultz, William W., doing business as Clean-E-Ze Manufacturing Company, Philadelphia, Pa. Chemically-treated cleaning and polishing cloths. 575,955, June 16; Serial No. 627,466, published Mar. 17, 1953. Class 29.

Schwalm, Theo. R., Lancaster, Pa. Watch dials, hands, and numerals. 576,154, June 16; Serial No. 624,612. Class 27.

Scott Products Co.: *See*—
Scott, T. Philip.

Scott, T. Philip, doing business as Scott Products Co., Chicago, Ill. Electrical floor and table lamps. 576,069, June 16; Serial No. 633,126, published Mar. 31, 1953. Class 21.

Scovill Manufacturing Company, Waterbury, Conn. Bank pins, dressmaker pins, silk pins, etc. 575,899, June 16; Serial No. 621,987, published Feb. 10, 1953. Class 40.

Scruggs-Vandervoort-Barney Dry Goods Company, to Scruggs-Vandervoort-Barney, Inc., St. Louis, Mo. Ladies' shoes. 301,353, renewed Feb. 28, 1953. O. G. June 16. Class 39.

Scruggs-Vandervoort-Barney, Inc.: *See*—
Scruggs-Vandervoort-Barney Dry Goods Company.

Seaplant Chemical Corporation, New Bedford, Mass. Irish moss extractives. Irish moss extractives with added ingredients, etc. 575,982, June 16; Serial No. 629,257, published Mar. 17, 1953. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Electrical apparatus. 575,809, June 16; Serial No. 600,988, published Mar. 24, 1953. Class 21.

Seeman Brothers, Inc., New York, N. Y. Preparation for washing, coating, and strengthening textiles and textile fabrics. 576,088, June 16; Serial No. 634,271, published Mar. 17, 1953. Class 52.

See-Teeth Products, Inc., San Diego, Calif. Tooth brushes. 576,150, June 16; Serial No. 618,555. Class 29.

Selmer, H. & A., Inc., Elkhart, Ind. Grooved phonograph records. 575,857, June 16; Serial No. 615,859, published Mar. 31, 1953. Class 36.

Sexton, John, & Co., Chicago, Ill. Paper towels, facial tissues, and toilet tissues. 576,002, June 16; Serial No. 630,216, published Mar. 10, 1953. Class 37.

Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Pens. 303,041, renewed May 9, 1953. O. G. June 16. Class 37.

Sheppard Envelope Company, Worcester, Mass. Correspondence envelopes. 575,763, June 16; Serial No. 549,281, published Feb. 10, 1953. Class 37.

Sherman Paper Products Corporation, Newton, Mass. Corrugated wrapping paper. 576,071, June 16; Serial No. 633,335, published Feb. 10, 1953. Class 37.

Shields, Frank N., trading as W. Ryder & Co., Bradford, England. Mineral and aerated waters, nonalcoholic maltless soft drinks and syrups. 576,049, June 16; Serial No. 632,446, published Mar. 22, 1953. Class 45.

Shields, Frank N., trading as W. Ryder & Co., Bradford, England. Beer, ale, and porter. 576,050, June 16; Serial No. 632,447, published Mar. 17, 1953. Class 48.

Shlansky, Philip, & Sons, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, and outer skirts. 575,882, June 16; Serial No. 620,234, published Mar. 24, 1953. Class 39.

Shoe Corporation of America, Columbus, Ohio. Shoes. 575,767, June 16; Serial No. 559,253, published Mar. 24, 1953. Class 39.

Shoe Corporation of America, Columbus, Ohio. Rubber boots. 575,997, June 16; Serial No. 629,959, published Mar. 24, 1953. Class 39.

Sicks' Seattle Brewing & Malting Co., Seattle, Wash. Beer. 575,972, June 16; Serial No. 628,663, published Mar. 24, 1953. Class 48.

Simpson Logging Company, Seattle, Wash. Hardboard. 576,086, June 16; Serial No. 634,219, published Feb. 17, 1953. Class 12.

Singer, Irving, New York, N. Y. Men's hats. 558,126, Apr. 22, 1952. Canceled May 8, 1953. O. G. June 16. Class 39.

Singer Manufacturing Company, The, Elizabeth, N. J. Family and manufacturing sewing-machines, parts thereof, etc. 93,127, re-renewed Aug. 19, 1953. O. G. June 16. Class 23.

Singer Manufacturing Company, The, Elizabeth, N. J. Sewing-machine needles. 93,128, re-renewed Aug. 19, 1953. O. G. June 16. Class 23.

Sjostrom, John E., Company, Philadelphia, Pa. Fitted and movable laboratory science desks, laboratory tables, and laboratory benches, etc. 575,922, June 16; Serial No. 624,162, published Feb. 3, 1953. Class 26.

Skoot Company, The, Hamilton and Dayton, to J. B. Hughes, doing business as The Skoot Company, Hamilton, Ohio. Liniment. 302,411, renewed Apr. 18, 1953. O. G. June 16. Class 18.

Slater, Rodger & Company, Limited, Glasgow, Scotland. Whisky. 303,257, renewed May 16, 1953. O. G. June 16. Class 49.

Smith, Robert E., assignor to Kagran Corporation, New York, N. Y. Album holders for records and mechanically grooved records. 575,799, June 16; Serial No. 593,750, published Mar. 31, 1953. Class 36.

Snower, William, Kansas City, Mo., sole trustee for Kansas City White Goods Manufacturing Company. Cotton table cloths and napkins and cotton piece goods. 575,872, June 16; Serial No. 618,943, published Mar. 31, 1953. Class 42.

Société à Responsabilité Limitée dite: Comptoir de l'Industrie Cotonniere, Etablissements Boussac, Paris, France. Impregnated and rubberized cotton fabric. 576,056, June 16; Serial No. 632,631, published Mar. 31, 1953. Class 42.

Societe a Responsabilite Limitee Kunkelmann & Cie, Reims, Marne, France. Champagne. 575,785, June 16; Serial No. 589,476, published Mar. 3, 1953. Class 47.

Societe a Responsabilite Limitee Parfums Christian Dior, Paris, France. Perfumes, toilet waters, etc. 528,275, Aug. 1, 1950. Canceled Apr. 21, 1953. O. G. June 16. Class 51.

Societe Anonyme Jeanne Lanvin, Paris, France. Men's suits, outer shirts, and neckties. 576,027, June 16; Serial No. 631,520, published Mar. 10, 1953. Class 39.

Societe Worth, Paris, France, to Les Parfums Worth De Paris, Inc., New York, N. Y. Perfumes. 301,937, renewed Mar. 21, 1953. O. G. June 16. Class 51.

Societe Worth, Paris, France, to Les Parfums Worth De Paris, Inc., New York, N. Y. Perfumes. 303,565, renewed May 30, 1953. O. G. June 16. Class 51.

Sommer & Kaufmann, San Francisco, Calif. Women's, misses', and children's shoes. 575,752, June 16; Serial No. 510,804, published Mar. 24, 1953. Class 39.

Southwest Company: *See*—
Huberle, Lawrence B.

Sovig, Conrad, Co., San Francisco, Calif. Fast hardening color finish, cementitious in nature. 575,837, June 16; Serial No. 616,996, published Feb. 17, 1953. Class 12.

Spiller, Herman, trading as Spiller Hosiery Company, also known as Spiller Hosiery Co., Doylestown, Pa. Women's and misses' hosiery. 576,048, June 16; Serial No. 632,397, published Mar. 17, 1953. Class 39.

Spiller Hosiery Co.: *See*—
Spiller, Herman.

Spiller Hosiery Company: *See*—
Spiller, Herman.

Spitzer Bros., Inc., New York, N. Y. Wines. 322,638, Mar. 12, 1935. Canceled May 1, 1953. O. G. June 16. Class 47.

Spratt's Patent Limited, London, England. Biscuits. 92,281, re-renewed June 24, 1953. O. G. June 16. Class 46.

Standard Mattress Company, The, Hartford, Conn. Mattresses. 575,974, June 16; Serial No. 626,724, published Mar. 31, 1953. Class 32.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Polish or gloss for cleaning, brightening, and polishing all kinds of furniture, etc. 92,838, re-renewed July 29, 1953. O. G. June 16. Class 4.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oils. 301,882, renewed Mar. 21, 1953. O. G. June 16. Class 15.

Stein-Tex, Inc., New York, N. Y. Cotton piece goods. 549,726, Oct. 16, 1951. Canceled Apr. 24, 1953. O. G. June 16. Class 42.

Stetson & Ellison Co., Camden, Del., and New York, N. Y., to Stetson and Ellison Company, Chicago, Ill. Canned vegetables. 92,139, re-renewed June 17, 1953. O. G. June 16. Class 46.

Stetson and Ellison Company: *See*—
Stetson & Ellison Co.

Stieh, William M., & Co., Inc., Teaneck, N. J. Heavy metal decontamination compositions. 576,122, June 16; Serial No. 637,153, published Mar. 24, 1953. Class 6.

Stitzel-Weller Distillery, Shively, Ky. Whiskey. 575,946, June 16; Serial No. 626,595, published Mar. 3, 1953. Class 49.

Stodart, James & George, Limited, Dumbarton, Scotland. Scotch whisky. 575,821, June 16; Serial No. 606,243, published Mar. 3, 1953. Class 49.

Stratton Equipment Company, Cleveland, Ohio. Floor cranes. 526,460, June 13, 1950. Canceled Apr. 28, 1953. O. G. June 16. Class 23.

Strohmeyer & Arpe Company, New York, N. Y. Olives. 576,128, June 16; Serial No. 640,237, published Mar. 24, 1953. Class 46.

Suds-All Company, Inc., Evanston, Ill. Soap and for sudsing cleaner and detergent. 576,146, June 16; Serial No. 607,524. Class 52.

Summers Fertilizer Company, Inc., The, Baltimore, Md. Fertilizers. 576,107, June 16; Serial No. 635,152, published Mar. 24, 1953. Class 10.

Superior Flour Co.: *See*—
Peek, Robert M.

Swift & Company, Chicago, Ill. Lard. 576,103, June 16; Serial No. 635,004, published Mar. 17, 1953. Class 46.

Syntex Veterinary Products Co., Inc., New York, N. Y., now by change of name Foundation Laboratories, Inc. Medicinal hormone preparation. 576,100–10, June 16; Serial Nos. 635,444–5, published Mar. 3, 1953. Class 18.

Television Associates, Inc., Michigan City, Ind. Continuous film reels, motion picture projectors, dollies for television cameras, etc. 575,788, June 16; Serial No. 590,190, published Feb. 3, 1953. Class 26.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,058, Oct. 31, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,274, Nov. 21, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,276, Nov. 21, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,279–80, Nov. 21, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,282, Nov. 21, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,284, Nov. 21, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,291, Nov. 21, 1911; republished June 16. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,295, Nov. 21, 1911; republished June 16. Class 15.

Texas Instruments Incorporated, Dallas, Tex. Transistors, portable radio transmitter-receivers, components of radar and sonar equipment. 575,975, June 16; Serial Nos. 628,725, published Mar. 31, 1953. Class 21.

Textron Incorporated: *See*—
Minot, Hooper & Co.

Thayer, Inc., Gardner, Mass. Pads in the nature of mattresses. 575,949, June 16; Serial No. 626,968, published Mar. 17, 1953. Class 32.

Thurlow Glove Company, Portland, Oreg. Leather moccasins. 576,007, June 16; Serial No. 630,554, published Mar. 24, 1953. Class 39.

Tiny Twidler Shoe Company: *See*—
Bloser Baby Shoe Co.

Todd Company, Inc., The, Rochester, N. Y. Check book covers. 576,031, June 16; Serial No. 631,583, published Mar. 10, 1953. Class 37.

Travenol Laboratories, Inc., Morton Grove, Ill. Injectable neregen. 576,057, June 16; Serial No. 632,636, published Feb. 17, 1953. Class 18.

Tribune Company, sometimes identified merely as Chicago Tribune, Chicago, Ill. Beauty column. 575,880, June 16; Serial No. 619,981, published Mar. 10, 1953. Class 38.

Tube Light Engineering Company, New York, N. Y. Electrical, gaseous discharge sign manufacturers' supplies and accessories. 575,751, June 16; Serial No. 500,427, published Mar. 31, 1953. Class 21.

Turney, J. G., & Son Limited, London, England. Whisky, rum, gin, and brandy. 302,738, renewed Apr. 25, 1953. O. G. June 16. Class 49.

United Buff Products Corporation, Passaic, N. J. Contact wheel. 575,879, June 16; Serial No. 619,957, published July 29, 1952. Class 23.

U. S. Optical Company: *See*—
Malsby, Andrew J.

United States Rubber Company, New York, N. Y. Men's boots and shoes. 575,823, June 16; Serial No. 607,729, published Mar. 24, 1953. Class 39.

United States Rubber Company, New York, N. Y. Men's and children's shoes. 575,920, June 16; Serial No. 623,858, published Mar. 24, 1953. Class 39.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Constructional steel sections, bars, and plates. 575,905, June 16; Serial No. 622,468, published Feb. 17, 1953. Class 12.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Electrical cable. 576,020–1, June 16; Serial Nos. 631,135–6, published Mar. 31, 1953. Class 21.

United States Steel Corporation: *See*—
United States Steel Company.

Uttz, William A., doing business as Jiffy Specialty Mfg. Co., Inc., Fort Worth, assignor to A. E. Betzel, A. E. Betzel, Jr., and W. A. and C. A. Betzel, doing business as Betzel Specialty Manufacturing Company, Arlington, Tex. Flaherman's kit. 575,019, June 16; Serial No. 623,783, published Mar. 31, 1953. Class 22.

Vanity Fair Co., New York, N. Y. Phonographs and record players. 575,964, June 16; Serial No. 627,991, published Mar. 31, 1953. Class 36.

Vaponefrin Company: *See*—
Asthmanefrin Company, Incorporated.

Veland Products, Inc., Cleveland, Ohio. Skin lotion and face cream. 575,827. June 16; Serial No. 608,842, published Mar. 10, 1953. Class 51.

Veldown Company, Inc., New York, N. Y., to Marinette Paper Company, Marinette, Wis. Cleansing tissue. 301,442, renewed Feb. 28, 1953. O. G. June 16. Class 37.

Veterans of Foreign Wars of the United States, Kansas City, Mo. Overseas caps, ties, uniform shirts, etc. 575,862, June 16; Serial No. 616,260, published Feb. 24, 1953. Class 39.

Vindobona Importing Co.: *See*—
Zelinka, Hans.

Vintex Corporation of America, New York, N. Y. Interlining fabrics. 576,096, June 16; Serial No. 634,614, published Mar. 31, 1953. Class 42.

Vogue Products Company, Detroit, Mich. Plastic tray. 576,144, June 16; Serial No. 606,914. Class 2.

Wak Incorporated, to W. A. Kennedy, doing business as Wak Industries, Charlotte, N. C. Pick counters for textile machines and revolution recording devices. 303,321, renewed May 23, 1953. O. G. June 16. Class 26.

Wak Industries: *See*—
Wak Incorporated.

Waldes & Co., Prague-Wrachowitz, Austria-Hungary, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Snap-buttons. 92,150, re-renewed June 17, 1953. O. G. June 16. Class 40.

Waldes Koh-I-Noor, Inc.: *See*—
Waldes & Co.

Waldo Springs Distilling Company: *See*—
American Distilling Company, The.

Wall-Streeter Shoe Company, North Adams, Mass. Men's and women's and children's shoes. 575,011, June 16; Serial No. 623,005, published Mar. 24, 1953. Class 39.

Ward Leonard Electric Company, Mount Vernon, N. Y. Electrical resistors. 576,052, June 16; Serial No. 632,495, published Mar. 17, 1953. Class 21.

Warshauer, Benjamin, Stockton, Calif. Women's shoes. 576,003, June 16; Serial No. 630,362, published Mar. 24, 1953. Class 39.

Washington Co-Operative Farmers Association, Seattle, Wash. Poultry and egg products. 575,738, June 16; Serial No. 530,137, published Mar. 17, 1953. Class 46.

Washington Creamery Company, Seattle, Wash., assignor to Rancher's Pride Foods, Portland, Oreg. Boned turkey, turkey and broth, egg noodles and turkey, etc. 575,775, June 16; Serial No. 580,386, published July 11, 1950. Class 46.

Waters, James L., Inc., Framingham, Mass. Analyzers for the quantitative determination of constituents in gas mixtures and liquid mixtures. 575,777, June 16; Serial No. 583,899, published Feb. 3, 1953. Class 26.

Weinberger Garment Company, St. Louis, Mo. Women's dresses, suits, skirts, etc. 575,983, June 16; Serial No. 629,336, published Mar. 24, 1953. Class 39.

Weiner, M. A., Company, Sioux City, Iowa. Belts, suspenders, mufflers, etc. 575,807, June 16; Serial No. 600,460, published Mar. 10, 1953. Class 39.

Weiner, Simon, New York, N. Y. Shoes. 373,434, Dec. 5, 1939. Canceled May 1, 1953. O. G. June 16. Class 39.

Wellco Shoe Corporation, Waynesville, N. C. Shoes. 575,804, June 16; Serial No. 597,185, published Mar. 24, 1953. Class 39.

Wennonah Cotton Mills Company, Lexington, N. C. Textile fabrics. 576,073, June 16; Serial No. 633,523, published Mar. 31, 1953. Class 42.

West Point Lawn Products, assignor to West Point Products Corporation, West Point, Pa. Turf cultivating wheeled implement. 575,852, June 16; Serial No. 614,276, published Feb. 24, 1953. Class 23.

West Point Products Corporation, assignee: *See*—
West Point Lawn Products.

West Virginia Packing Corporation, Huntington, W. Va. Fruit preserves and jellies. 575,781, June 16; Serial No. 346,531, published Mar. 17, 1953. Class 46.

Western Condensing Company, San Francisco, Calif. Dried whey. 576,160, June 16; Serial No. 635,617. Class 46.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets; papeteries. 575,735, June 16; Serial No. 526,015, published Feb. 10, 1953. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 575,756, June 16; Serial No. 526,087, published Feb. 24, 1953. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Correspondence paper and papeteries. 575,757, June 16; Serial No. 526,105, published Mar. 10, 1953. Class 37.

Westinghouse Electric Corporation: *See*—
Westinghouse Electric & Manufacturing Company.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., to Westinghouse Electric Corporation, Mansfield, Ohio. Electric sadirons. 302,877, renewed May 2, 1953. O. G. June 16. Class 21.

Westminster Shoe Co. Inc., Westminster, Md. Shoes. 575,838, June 16; Serial No. 611,052, published Mar. 24, 1953. Class 39.

White Holland Farm: *See*—
Schnikler, Henry.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental operative abrading unit. 575,825, June 16; Serial No. 608,729, published Mar. 24, 1953. Class 44.

Wiegand, Edwin L., Company, Pittsburgh, Pa. Tubular sheathed embedded-resistor electric heating units and parts thereof. 575,887, June 16; Serial No. 620,866, published Mar. 31, 1953. Class 21.

Willson Products, Inc., Reading, Pa. Safety helmets and dust protective hoods and masks. 575,797, June 16; Serial No. 593,311, published Mar. 10, 1953. Class 39.

Winer Sportswear, Inc., Paterson, N. J. Boys' and girls' clothing. 576,077, June 16; Serial No. 633,812, published Mar. 17, 1953. Class 39.

Witherbee Storage Battery Co.: *See*—
Witherbee Storage Battery Co. Inc.

Witherbee Storage Battery Co. Inc., Belleville, N. J., to Price Battery Corporation, doing business as Witherbee Storage Battery Co., Hamburg, Pa. Storage batteries. 299,413, renewed Dec. 6, 1952. O. G. June 16. Class 21.

Witt's Market House, Inc., Minneapolis, doing business as Witt's Med-O-Sweet Farm, Osseo, Minn. Dressed poultry. 575,764, June 16; Serial No. 532,373, published Mar. 24, 1953. Class 46.

Witt's Med-O-Sweet Farm: *See*—
Witt's Market House, Inc.

Wolfram, R. Sutter, doing business as Dental Applied Research Laboratory, Queens Village, N. Y. Dental products. 575,794, June 16; Serial No. 592,402, published Mar. 24, 1953. Class 44.

World Merchandise Exchange & Trading Co., Inc., New York, N. Y. Hand sewing needles. 575,998, June 16; Serial No. 620,980, published Feb. 10, 1953. Class 40.

Wurlitzer, Rudolph, Company, The, De Kalb, Ill. Pianos. 355,363, Mar. 15, 1938. Canceled Apr. 21, 1953. O. G. June 16. Class 36.

Wyandotte Chemicals Corporation: *See*—
Ford, J. B., Company, The.

Youth-O-Pedic Shoe Center: *See*—
Plotkin, Abe L.

Zelinka, Hans, doing business under the firm and style of Vindobona Importing Co., New York, N. Y. Scythes. 575,813, June 16; Serial No. 601,970, published Dec. 30, 1952. Class 23.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Finely divided bentonite. American Colloid Co. 356,773–4. May 10, 1938. Corrected. O. G. June 16.

Flowers and plants. M. Goldfarb—My Florist Inc. 576,139, June 16; Serial No. 590,152.

Leather. Eagle-Ottawa Leather Company. 438,943. May 18, 1948. Republished June 16.

Mink skins and pelts. Neiman-Marcus Company. 576,085, June 16; Serial No. 634,158, published Mar. 17, 1953.

Pulverized carbons, etc. International Pulverizing Corporation. 323,734, Apr. 30, 1935. Canceled May 1, 1953. O. G. June 16.

CLASS 2

Tray, Plastic. Vogue Products Company. 576,144, June 16; Serial No. 606,914.

CLASS 3

Handbags. S. Koret. 367,770, May 30, 1939. Republished June 16.

Suitcases, traincases, briefcases, etc. Lederwarenfabrik Kritzler K.-G. 572,564–5, Mar. 31, 1953. Corrected. O. G. June 16.

CLASS 4

Polish, Liquid. S. C. Johnson & Son, Inc. 576,163, June 16; Serial No. 640,317.

Polish or gloss for cleaning, brightening and polishing all kinds of furniture, etc. Standard Oil Company. 92,838, re-renewed July 29, 1953. O. G. June 16.

Sheet material coated with abrasive grains. The Carborundum Company. 576,148, June 16; Serial No. 611,828.

Soap compound, soap for laundry use, soap for textile trade, etc. National Milling and Chemical Company. 302,130, renewed Mar. 28, 1953. O. G. June 16.

CLASS 5

Adhesive paste, Coru-product. American Hominy Company. 90,619, re-renewed Mar. 11, 1953. O. G. June 16.

Paste. Kohler Co. 301,822, renewed Mar. 14, 1953. O. G. June 16.

CLASS 6

Air freshener preparation. The Drackett Company. 576,114, June 16; Serial No. 635,746, published Mar. 24, 1953.

Aldehydes, alcohols, and natural and essential oils. Charabot & Co., Inc. 576,116, June 16; Serial No. 635,051, published Mar. 17, 1953.

Algaecides and water treating compounds. B. Domogalla. 576,127, June 16; Serial No. 639,093, published Mar. 24, 1953.

Chelating agent. Bersworth Chemical Company. 575,968, June 16; Serial No. 628,460, published Mar. 17, 1953.

Chelating agent. Bersworth Chemical Company. 575,969, June 16; Serial No. 628,461, published Mar. 24, 1953.

Chemical case-hardening material. E. M. Griffiths. 90,986, re-renewed Apr. 8, 1953. O. G. June 16.

Chemical preparation. L. Johnson. 576,155, June 16; Serial No. 625,014.

Decontamination compositions, Heavy metal. William M. Stieh & Co., Inc. 576,122, June 16; Serial No. 637,153, published Mar. 24, 1953.

Developers consisting of a mixture of electroscopic powder and granular material, etc. The Haloid Company. 576,118, June 16; Serial No. 636,288, published Mar. 17, 1953.

Dyes, pigments, water-repellents, etc. Metro Dyestuff Corporation. 576,125, June 16; Serial No. 630,585, published Mar. 17, 1953.

Fluxes. All-Sil Welding Metals, Inc. 576,124, June 16; Serial No. 638,682, published Mar. 17, 1953.

Fungicides, insecticides, and disinfectants. Rose Manufacturing Company. 576,044, June 16; Serial No. 632,269, published Mar. 17, 1953.

Insecticide. Geigy Company, Inc. 576,145, June 16; Serial No. 607,382.

Irish moss extractives, Irish moss extractives with added ingredients, etc. Seaplant Chemical Corporation. 575,982, June 16; Serial No. 629,257, published Mar. 17, 1953.

Light-sensitive, acid-resistant coating for use by photo-engravers. Maillinckrodt Chemical Works. 576,156, June 16; Serial No. 629,374.

Photographic chemicals. General Aniline & Film Corporation. 575,854. June 16; Serial No. 614,296, published Mar. 4, 1952.

Polyhydroxy alcohol-fatty acid esters. Griffin Chemical Company. 576,121, June 16; Serial No. 636,930, published Mar. 17, 1953.

Polymerized marine oil. Archer-Daniels-Midland Company. 576,078, June 16; Serial No. 633,830, published Mar. 17, 1953.

Polyvinyl chloride. Abton Finishes, Inc. 576,082, June 16; Serial No. 634,024, published Mar. 17, 1953.

Refinisher for leather. Mercury Chemical Corporation. 576,120, June 16; Serial No. 636,792, published Mar. 17, 1953.

Soldering fluxes. Kester Solder Company. 304,081, renewed June 20, 1953. O. G. June 16.

Tantalum oxide, tantalum carbide, sodium tungstate, etc. Fansteel Metallurgical Corporation. 576,126, June 16; Serial No. 639,622, published Mar. 24, 1953.

Tick powder and flea powder. Polk Miller Products Corporation. 576,060, June 16; Serial No. 632,088, published Mar. 17, 1953.

CLASS 8

Pipes. Kaufmann Bros. & Bondy, Inc. 301,592, renewed Mar. 7, 1953. O. G. June 16.

CLASS 9

Detonators and safety fuses. Imperial Chemical Industries Limited. 576,040, June 16; Serial No. 631,933, published Mar. 17, 1953.

Firecrackers and fireworks. Li & Fung, Ltd. 576,106, June 16; Serial No. 635,089, published Mar. 24, 1953.

CLASS 10

Aggregate for fertilizer. Indoken Perlite Company. 576,087, June 16; Serial No. 634,256, published Mar. 24, 1953.

Fertilizer, Agricultural. Bersworth Chemical Company. 576,080, June 16; Serial No. 633,966, published Mar. 24, 1953.

Fertilizer, Commercial. G. D. Austin. 576,070, June 16; Serial No. 633,192, published Mar. 17, 1953.

Fertilizers. The Sommers Fertiliser Company, Inc. 576,107, June 16; Serial No. 635,152, published Mar. 24, 1953.

Plant food. Antro Gardens, Inc. 575,990, June 16; Serial No. 629,710, published Mar. 17, 1953.

CLASS 12

Asbestos-cement product. Keasbey & Mattison Company. 300,366, renewed Jan. 17, 1953. O. G. June 16.

Closures for openings in buildings. Borg-Warner Corporation. 575,886, June 16; Serial No. 620,799, published Feb. 17, 1953.

Constructional steel sections, bars, and plates. United States Steel Company. 575,905, June 16; Serial No. 622,468, published Feb. 17, 1953.

Fast hardening color finish, cementitious in nature. Conrad Sovig Co. 575,837, June 16; Serial No. 610,996, published Feb. 17, 1953.

Flooring compound. Certain-teed Products Corporation. 575,900, June 16; Serial No. 622,142, published Feb. 17, 1953.

Hardboard. Simpson Logging Company. 576,086, June 16; Serial No. 634,219, published Feb. 17, 1953.

Metal molding. A. W. Hastings & Co. Inc. 575,942, June 16; Serial No. 626,327, published Feb. 17, 1953.

Plaster, Calcined gypsum. Certain-teed Products Corporation. 575,893, June 16; Serial No. 621,544, published Feb. 17, 1953.

Rock wool. Coast Insulating Products. 575,760, June 16; Serial No. 541,513, published Feb. 17, 1953.

Roofing granules. H. B. Reed & Company. 575,812, June 16; Serial No. 601,849, published Mar. 17, 1953.

Sealing compound, Plastic. P. L. Casaldy. 575,935, June 16; Serial No. 625,338, published Feb. 17, 1953.

Windows, Storm. Arnold Products, Inc. 575,979, June 16; Serial No. 629,187, published Feb. 17, 1953.

CLASS 13

Coffee makers, Glass vacuum. Wilbur Curtis Company, Inc. 576,141, June 16; Serial No. 600,164.

Screws, bolts, nuts, etc. Continental Screw Company. 576,139, June 16; Serial No. 634,733.

CLASS 14

Crucible-steel, electric steel, and high-speed steel. Halcomb Steel Company. 91,865, re-renewed June 13, 1953. O. G. June 16.

Machinery castings, anchors, bed-plates, etc. Daimler-Motoren-Gesellschaft. 91,855, re-renewed June 3, 1953. O. G. June 16.

Solder. Kester Solder Company. 303,268, renewed May 16, 1953. O. G. June 16.

Solder. Kester Solder Company. 303,279, renewed May 16, 1953. O. G. June 16.

CLASS 15

Oils, Lubricating. Standard Oil Company of California. 301,882, renewed Mar. 21, 1953. O. G. June 16.

Oils, Lubricating. The Texas Company. 84,058, Oct. 31, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,274, Nov. 21, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,276, Nov. 21, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,279–80, Nov. 21, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,282, Nov. 21, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,284, Nov. 21, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,291, Nov. 21, 1911. Republished June 16.

Oils, Lubricating. The Texas Company. 84,295, Nov. 21, 1911. Republished June 16.

CLASS 16

Pulverized limestone, sold as an ingredient of paint. International Pulverizing Corporation. 321,034, Jan. 15, 1935. Canceled May 1, 1953. O. G. June 16.

CLASS 18

Injectable pyrogen. Travenol Laboratories, Inc. 576,057, June 16; Serial No. 632,636, published Feb. 17, 1953.

Laxative salt. Banfi Products Corp. 575,991, June 16; Serial No. 629,764, published Feb. 17, 1953.

Liniment. Nox-Kwik Company. 304,567, renewed July 11, 1953. O. G. June 16.

Liniment. The Skoot Company. 302,411, renewed Apr. 18, 1953. O. G. June 16.

Medicinal hormone preparation. Syntex Veterinary Products Co., Inc. 576,109–10, June 16; Serial Nos. 633,444–5, published Mar. 3, 1953.

Medicines for the treatment of venereal diseases, etc. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik. 296,499, renewed Aug. 9, 1952. O. G. June 16.

Penicillin preparation. Heyden Chemical Corporation. 575,897, June 16; Serial No. 621,824, published Feb. 17, 1953.

Pharmaceutical preparation. Pan Pharmacals, Inc. 575,843, June 16; Serial No. 612,030, published Feb. 17, 1953.

Preparation for the treatment of calf scours. Mountain Laboratories, Inc. 575,988, June 16; Serial No. 629,681, published Feb. 17, 1953.

Remedy for rheumatic affections. Parke, Davis & Company. 92,115, re-renewed June 17, 1953. O. G. June 16.

Solution used in the treatment of asthma and hay fever. Asthmanefrin Company, Incorporated. 575,984, June 16; Serial No. 629,341, published Feb. 17, 1953.

Suppositories, medicines against spasms of all kinds, etc. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik. 298,731, renewed Nov. 1, 1952. O. G. June 16.

Vitamin capsules. National Vitamin Corporation. 575,863, June 16; Serial No. 616,439, published Feb. 17, 1953.

Vitamin D concentrates. Nopco Chemical Company. 575,978, June 16; Serial No. 629,180, published Feb. 24, 1953.

CLASS 19

Airplanes and parts therefor. The Cessna Aircraft Company. 576,100, June 16; Serial No. 634,888, published Mar. 31, 1953.

Automobiles, motor boats and radiators, and frames therefor. Bernard-Moteurs, S. A. 575,792, June 16; Serial No. 591,143, published Mar. 31, 1953.

Automotive service products. Champ-Items, Inc. 575,795, June 16; Serial No. 592,475, published Mar. 31, 1953.

Folding canvas baby carriage adapted for use as an automobile bed. Rondout Metal Products Co., Inc. 576,025, June 16; Serial No. 631,377, published Mar. 31, 1953.

Hand brake and throttle control, Combination. M. A. Lerman. 576,151, June 16; Serial No. 620,546.

Non-electric brakes and brake assemblies for automotive and aviation vehicles, and booster units therefor, etc. Borg-Warner Corporation. 575,786, June 16; Serial No. 589,557, published Mar. 31, 1953.

Truck body. Utility. Morrison Steel Products Inc. 576,147, June 16; Serial No. 611,711.

CLASS 21

Batteries, Electric dry. Burgess Battery Company. 575,842, June 16; Serial No. 611,682, published Mar. 31, 1953.

Batteries, Storage. Witherbee Storage Battery Co. Inc. 299,413, renewed Dec. 6, 1952. O. G. June 16.

Dielectric material. Aircraft-Marine Products Inc. 575,833, June 16; Serial No. 610,777, published Mar. 31, 1953.

Electric coffee-mills, electric meat-choppers, electric bone-grinders, etc. The Hobart Electric Mfg. Co. 92,217, re-renewed June 24, 1953. O. G. June 16.

Electric insulation material. The William Brand and Co., Inc. 575,853, June 16; Serial No. 614,278, published Mar. 31, 1953.

Electric motor rheostat controls, Fractional horsepower. Getz Bros. & Co. 576,028, June 16; Serial No. 631,554, published Mar. 31, 1953.

Electric motors, ignition-batteries, accumulators, etc. Daimler-Motoren-Gesellschaft. 90,874, re-renewed Apr. 1, 1953. O. G. June 16.

Electric tools, Portable. Cummins-Chicago Corp. 575,929, June 16; Serial No. 624,875, published Mar. 24, 1953.

Electrical apparatus. Sears, Roebuck and Co. 575,809, June 16; Serial No. 600,988, published Mar. 24, 1953.

Electrical appliances. Knapp-Monarch Company. 575,817, June 16; Serial No. 604,584, published Mar. 17, 1953.

Electrical cable. United States Steel Company. 576,020–1, June 16; Serial Nos. 631,135–6, published Mar. 31, 1953.

Electrical converters. A. W. La Marche. 575,945, June 16; Serial No. 626,579, published Mar. 31, 1953.

Electrical gaseous discharge sign manufacturer's supplies and accessories. Tube Light Engineering Company. 575,751, June 16; Serial No. 500,427, published Mar. 31, 1953.

Electrical insulating material. The Arborite Company Limited. 576,113, June 16; Serial No. 635,674, published Mar. 24, 1953.

Electrical resistors. Ward Leonard Electric Company. 576,052, June 16; Serial No. 632,495, published Mar. 17, 1953.

Electrically-driven vibrators; vibrating units, etc. Aktiebolaget Vibro-Verken. 575,858, June 16; Serial No. 616,005, published Mar. 24, 1953.

Electrically operated machines. Glenray Sales & Mfg. Co. 575,967, June 16; Serial No. 628,353, published Mar. 17, 1953.

Electronic tubes. Compagnie Generale de Telegraphie Sans Fil. 575,940, June 16; Serial No. 625,890, published Mar. 31, 1953.

Fans, Electric, electric beverage mixers, electric motors, etc. The A. C. Gilbert Company. 301,576, renewed Mar. 7, 1953. O. G. June 16.

Fire alarm apparatus, railway signal controls, traffic signals and associated control apparatus, etc. E. A. Brass. 409,136, Sept. 19, 1944. Republished June 16.

Heating units and parts thereof, Tubular sheathed embedded-resister electric. Edwin L. Wiegand Company. 575,887, June 16; Serial No. 620,866, published Mar. 31, 1953.

Lamp globes, lamp shades, and lamp lenses, etc. Aktiebolaget Orrefors Glasbruk. 575,928, June 16; Serial No. 624,803, published Mar. 24, 1953.

Lamps, Electrical desk, table, and pin up. Industrial Lamp Corporation. 576,036, June 16; Serial No. 631,868, published Mar. 24, 1953.

Lamps, Electrical floor and table. T. P. Scott. 576,060, June 16; Serial No. 633,126, published Mar. 31, 1953.

Lamps, Electrically operated china table and boudoir, and metal floor and table and boudoir lamps. Oxford Metal Spinning Co., Inc. 575,917, June 16; Serial No. 623,428, published Mar. 24, 1953.

Lighting units, Display and exhibit. Noel Manufacturing Company, Inc. 575,883, June 16; Serial No. 620,359, published Mar. 31, 1953.

Permanent ferrite magnets. Ferroxcube Corporation of America. 575,980, June 16; Serial No. 629,194, published Mar. 31, 1953.

Rod-shaped electric heating resistors. Elektrogerätebau Ceswid G. m. b. H. 575,830, June 16; Serial No. 610,169, published Mar. 31, 1953.

Sadirons, Electric. Westinghouse Electric & Manufacturing Company. 302,877, renewed May 2, 1953. O. G. June 16.

Sirens, Electrically operated. Federal Enterprises, Inc. 575,973, June 16; Serial No. 628,685, published Mar. 31, 1953.

Solenoid or electric motor driven power operators. Barber-Colman Company. 575,926, June 16; Serial No. 624,627, published Mar. 17, 1953.

Transistors, portable radio transmitter-receivers, components of radar and sonar equipment. Texas Instruments Incorporated. 575,975, June 16; Serial No. 628,725, published Mar. 31, 1953.

Transmitting and recording apparatus and electro-sensitive recording paper, Long distance. Muirhead & Co. Limited. 575,851, June 16; Serial No. 614,055, published Mar. 24, 1953.

Wire especially adapted for electrical purposes. Driver-Harris Company. 304,738, renewed July 18, 1953. O. G. June 16.

Wire especially adapted for electrical purposes. Driver-Harris Company. 304,741, renewed July 18, 1953. O. G. June 16.

CLASS 22

Bait containers, Live. H. C. N. McGee. 576,115, June 16; Serial No. 635,880, published Mar. 31, 1953.

Fisherman's kit. W. A. Uttz. 575,919, June 16; Serial No. 623,783, published Mar. 31, 1953.

Fishing hooks, Snelled and unsnelled. Dave Cook Sporting Goods Co. 575,834, June 16; Serial No. 610,834, published Mar. 31, 1953.

Fishing spinners, artificial fish lures, and artificial bait. E. S. Scanlan. 576,016, June 16; Serial No. 630,964, published Mar. 31, 1953.

Game, Card. E. McCarthy. 575,924, June 16; Serial No. 624,283, published Mar. 31, 1953.

Games, Card. I. Brambier. 576,034–5, June 16; Serial Nos. 631,787–8, published Mar. 31, 1953.

Nets for use in the fishing industry. Drummondville Cotton Company, Limited. 575,992, June 16; Serial No. 629,779, published Mar. 31, 1953.

Paraphernalia for all kinds of athletic contests. MacGregor Sport Products, Inc. 576,102, June 16; Serial No. 634,945, published Mar. 31, 1953.

Puzzles, Picture. Edcraft Corporation. 576,153, June 16; Serial No. 624,188.

Toy novelty. Four Guys Products, Inc. 576,076, June 16; Serial No. 633,763, published Mar. 31, 1953.

CLASS 23

Agricultural equipment. Blackwelder Manufacturing Co. 575,849, June 16; Serial No. 613,582, published Mar. 10, 1953.

Back hoe digger attachments. Pippin Construction Equipment, Inc. 576,162, June 16; Serial No. 630,143.

Bakery equipment. The J. H. Day Company, Incorporated. 575,848, June 16; Serial No. 613,123, published Feb. 24, 1953.

Base metal table cutlery. National Silver Company. 576,037, June 16; Serial No. 631,882, published Mar. 10, 1953.

Cam shafts, Reground. H. A. Johansen. 576,158, June 16; Serial No. 633,495.

Change-speed gears, quick-release wheel bearings, etc. L. Juy. 575,781, June 10; Serial No. 586,974, published Mar. 10, 1953.

Clearing and cultivating farm implement, Combination. M. Eller. 575,856, June 16; Serial No. 615,374, published Feb. 24, 1953.

Clutches and clutch and shaft assemblies. High Precision, Incorporated. 576,091, June 16; Serial No. 634,371, published Mar. 10, 1953.

Clutches and parts thereof, Automotive. The Cleveland Graphite Bronze Company. 576,104, June 16; Serial No. 635,083, published Mar. 31, 1953.

Contact wheel. United Bluff Products Corporation. 575,879, June 16; Serial No. 619,957, published July 29, 1952.

Cotton gins, cotton feeders, cotton elevators, etc. The Murray Company of Texas, Inc. 575,815, June 16; Serial No. 603,075, published Feb. 3, 1953.

Cranes, Floor. Stratton Equipment Company. 526,460. June 13, 1950. Canceled Apr. 28, 1953. O. G. June 16.

Cultivating wheeled implement, Turf. West Point Lawn Products. 575,852, June 16; Serial No. 614,276, published Feb. 24, 1953.

Cultivator, Garden. Merry Manufacturing Co. 575,877, June 16; Serial No. 619,764, published Mar. 10, 1953.

Cutters and holders therefor for lathes, shapers, planers and boring mills; boring heads, facing heads, etc. The O. K. Tool Company, Inc. 576,111, June 16; Serial No. 635,480, published Mar. 31, 1953.

Die presses. Hobbs Manufacturing Company. 576,066, June 16; Serial No. 633,056, published Feb. 17, 1953.

Engine parts. The Cleveland Graphite Bronze Company. 576,105, June 16; Serial No. 635,084, published Mar. 31, 1953.

Flatware of base metal. Imperial Knife Company, Inc. 576,161, June 16; Serial No. 636,528.

Hammers, chisels, spanners, etc. Daimler-Motoren-Gesellschaft. 93,081, re-renewed Aug. 19, 1953. O. G. June 16.

Internal combustion engines. Nordberg Manufacturing Company. 576,033, June 16; Serial No. 631,753, published Jan. 20, 1953.

Knives, Fishing. Northern Star Plating and Finishing Co. 444,775, June 16; Serial No. 501,470, published Mar. 10, 1953.

Knives, forks, spoons, etc. Marshall Burns, Inc. 575,921, June 16; Serial No. 623,973, published Mar. 10, 1953.

Knives, Pocket. Imperial Knife Company, Inc. 575,762, June 16; Serial No. 546,704, published Feb. 17, 1953.

Knives, Pocket and hunting. Reliance Merchandise Co., Inc. 576,072, June 16; Serial No. 633,431, published Feb. 17, 1953.

Machines for dissolving cellulose xanthate in dilute sodium hydroxide solution to produce viscose. Baker Perkins Company, Inc. 303,129, renewed May 9, 1953. O. G. June 16.

Machines for the manufacture of concrete. Compagnie Internationale Des Pieux Armes Frankignoul, Societe Anonyme. 301,723, renewed Mar. 14, 1953. O. G. June 16.

Mechanical feed mixer. Moorman Manufacturing Company. 575,774, June 16; Serial No. 580,085, published Mar. 31, 1953.

Metal and graphite bearings, bushings and thrust bearings. Bound Brook Oil-Less Bearing Company. 576,097, June 16; Serial No. 634,627, published Mar. 10, 1953.

Milking apparatus. Babson Bros. Co. 576,143, June 16; Serial No. 606,360.

Motors. Magnatex Limited. 575,909, June 16; Serial No. 622,837, published Mar. 10, 1953.

Parts for airplane engines. The Apex Tool Company, Incorporated. 575,776, June 16; Serial No. 581,638, published Mar. 24, 1953.

Pneumatic and internal combustion engine-driven vibrators and vibrating units, etc. Aktiebolaget Vibro-Verken. 575,859, June 16; Serial No. 616,006, published Mar. 10, 1953.

Printers' rollers. Bingham Brothers Company. 575,956, June 16; Serial No. 627,550, published Mar. 10, 1953.

Printing presses and parts thereof, Power operated. The Goss Printing Press Company. 575,824, June 16; Serial No. 607,756, published Feb. 17, 1953.

Railway bed maintenance machines. A. Scheuchzer. 576,038, June 16; Serial No. 631,894, published Mar. 10, 1953.

Razors and shears, Barbers'. Peter J. Michels, Inc. 575,941, June 16; Serial No. 625,914, published Jan. 20, 1953.

Saws. Martin Fireproofing Corporation. 575,847, June 16; Serial No. 612,458, published Mar. 10, 1953.

Saws, Hole. American Saw and Manufacturing Company. 575,878, June 16; Serial No. 619,796, published Jan. 20, 1953.

Scythes. H. Zelinka. 575,813, June 16; Serial No. 601,970, published Dec. 30, 1952.

Sewing-machine needles. The Singer Manufacturing Company. 93,128, re-renewed Aug. 19, 1953. O. G. June 16.

Sewing machines. Morse Sewing Machine and Supply Corp. 576,054, June 16; Serial No. 632,568, published Feb. 10, 1953.

Sewing-machines, parts thereof, etc., Family and manufacturing. The Singer Manufacturing Company. 93,127, re-renewed Aug. 19, 1953. O. G. June 16.

Staple removing devices. Mutual Stationers Supply Corporation. 575,953, June 16; Serial No. 627,272, published Mar. 10, 1953.

Stapling machines, Hand-operated. Markwell Manufacturing Company, Inc. 576,152, June 16; Serial No. 623,803.

Tool, Railroad car moving. Advance Car Mover Company, Inc. 575,874, June 16; Serial No. 619,278, published Mar. 10, 1953.

Tools and parts thereof, Earth working. Goble Disc Works. 575,768, June 16; Serial No. 563,536, published Mar. 24, 1953.

Tools, Butchers', bakers', druggists', and painters'. Lamson and Goodnow Manufacturing Company. 576,136, June 16; Serial No. 534,452.

Tools, Combination shearing, trimming, and edging. E. L. Chadwick. 576,045, June 16; Serial No. 632,291, published Mar. 10, 1953.

CLASS 26

Analyzers for the quantitative determination of constituents in gas mixtures and liquid mixtures. James L. Waters, Inc. 575,777, June 16; Serial No. 583,899, published Feb. 3, 1953.

Calculating and adding machines. Brunsviga Maschinenwerke, A. G. 575,938, June 16; Serial No. 625,563, published Feb. 3, 1953.

Circuit timers, Electrically operated, switch actuated, motor driven. Eagle Signal Corporation. 575,796, June 16; Serial No. 592,557, published Feb. 3, 1953.

Film reels, Continuous, motion picture projectors, dollies for television cameras, etc. Television Associates, Inc. 575,788, June 16; Serial No. 590,190, published Feb. 3, 1953.

Fitted and movable laboratory science desks, laboratory tables, and laboratory benches, etc. John E. Sjostrom Company. 575,922, June 16; Serial No. 624,162, published Feb. 3, 1953.

Lens, Plastic cover. Flood Safety Products Company. 575,780, June 16; Serial No. 586,156, published Feb. 3, 1953.

Lenses, Photographic, photographic optical filters, photographic enlargers, etc. Omag Optik und Mechanik A. G. 575,810, June 16; Serial No. 601,272, published Feb. 3, 1953.

Machines for testing the strength of materials; instruments responsive to, and instruments for measuring, indicating, and recording strain, etc. The Baldwin Locomotive Works. 575,802, June 16; Serial No. 595,032, published Feb. 3, 1953.

Measuring tapes. Keuffel & Esser Company. 575,805, June 16; Serial No. 598,534, published Feb. 3, 1953.

Multicolor filter screen. E. J. Epsen. 576,149, June 16; Serial No. 616,906.

Photographic apparatus. Peerless Camera Stores, Inc. 575,800, June 16; Serial No. 600,226, published Mar. 27, 1951.

Pick counters for textile machines and revolution recording devices. Wak Incorporated. 303,321, renewed May 23, 1953. O. G. June 16.

Sound film editing data. H. Roger. 575,870, June 16; Serial No. 619,550, published Feb. 3, 1953.

Sun-glasses. A. J. Malaby. 576,140, June 16; Serial No. 598,087.

Time switches, Coin-operated. International Register Company. 575,801, June 16; Serial No. 594,717, published Feb. 3, 1953.

CLASS 27

Watch dials, hands, and numerals. T. R. Schwalm. 576,154, June 16; Serial No. 624,612.

CLASS 28

Sterling silver flatware. Amston Silver Company, Inc. 576,137, June 16; Serial No. 573,701.

Sterling silver flatware, silver plated flatware, sterling silver or silver plated hollowware, etc. Miller and Rhoads, Incorporated. 575,912, June 16; Serial No. 623,108, published Mar. 17, 1953.

CLASS 29

Brushes, Household cleaning; dust cloths, and silverware polishing cloths. Miller and Rhoads, Incorporated. 575,913, June 16; Serial No. 623,109, published Mar. 24, 1953.

Brushes, Paint. Baker Brush Co., Inc. 575,885, June 16; Serial No. 620,716, published Mar. 24, 1953.

Brushes, Tooth. See-Teeth Products, Inc. 576,150, June 16; Serial No. 618,555.

Cleaning and polishing cloths, Chemically-treated. W. W. Schultz. 575,955, June 16; Serial No. 627,466, published Mar. 17, 1953.

Cloth-faced applicator, Long-handled. S. C. Johnson & Son, Inc. 575,892, June 16; Serial No. 621,519, published Mar. 24, 1953.

CLASS 32

Cabinets, Filing. Remington Rand Inc. 575,766, June 16; Serial No. 557,558, published Mar. 17, 1953.

Cabinets, Kitchen. Keystone Cabinet Company. 576,095, June 16; Serial No. 634,598, published Mar. 31, 1953.

Chairs. Milwaukee Chair Company. 575,985, June 16; Serial No. 620,447, published Mar. 31, 1953.

Chairs, easy chairs, sofas and beds, etc. Madrass-Fabriken Dux Aktiebolag. 575,779, June 16; Serial No. 585,713, published Mar. 31, 1953.

Chairs, tables, metal stools, etc. Affiliated Retailers, Inc. 575,923, June 16; Serial No. 624,179, published Mar. 31, 1953.

Display stands, Umbrella. Essex Manufacturing Co. Inc. 576,006, June 16; Serial No. 630,482, published Mar. 31, 1953.

Furniture. C. Bombara. 595,962, June 16; Serial No. 627,922, published Mar. 31, 1953.

Furniture. Lesko Mfg. Co., Inc. 576,092, June 16; Serial No. 634,375, published Mar. 17, 1953.

Furniture, Living room, kitchen, dining room, and bedroom. Aldens, Inc. 575,819; June 16; Serial No. 605,781, published Mar. 31, 1953.

Furniture, Upholstered. Prestige Chair Corporation. 575,947, June 16; Serial No. 626,638, published Mar. 31, 1953.

Furniture, Wood-plastic. Daystrom, Incorporated. 575,981, June 16; Serial No. 629,234, published Mar. 17, 1953.

Kitchen shelf. Chef's Shelf, Inc. 575,925, June 16; Serial No. 624,446, published Mar. 31, 1953.

Mattresses. The Standard Mattress Company. 575,974, June 16; Serial No. 628,724, published Mar. 31, 1953.

Mattresses and box springs. Denison Mattress Factory. 575,939, June 16; Serial No. 625,663, published Mar. 31, 1953.

Pads in the nature of mattresses. Thayer, Inc. 575,949, June 16; Serial No. 626,968, published Mar. 17, 1953.

Pillows and mattresses. The Dayton Rubber Company. 576,099, June 16; Serial No. 634,837, published Mar. 31, 1953.

Table tops. The Monroe Company. 576,084, June 16; Serial No. 634,154, published Mar. 17, 1953.

Tables, Occasional, end tables, cocktail tables, etc. Muller-Barringer. 575,891, June 16; Serial No. 621,023, published Mar. 31, 1953.

CLASS 33

Glass dishes. Cardinal China Co. 576,157, June 16; Serial No. 631,465.

CLASS 34

Boilers, Heating, and radiators. Kohler Co. 303,273, renewed May 16, 1953. O. G. June 16.

Heaters and their structural parts, Gas water. The Cleveland Heater Company. 303,556, renewed May 30, 1953. O. G. June 16.

CLASS 36

Accordions. Buegeleisen & Jacobson, Inc. 575,822, June 16; Serial No. 606,262, published Mar. 31, 1953.

Album holders for records, and mechanically grooved records. R. E. Smith. 575,799, June 16; Serial No. 593,750, published Mar. 31, 1953.

Harmonicas. Nippon Gakki Seizo Kabushiki Kaisha. 575,910, June 16; Serial No. 622,904, published Mar. 31, 1953.

Phonograph records, Grooved. H. & A. Selmer, Inc. 575,857, June 16; Serial No. 615,859, published Mar. 31, 1953.

Phonograph records, Mechanically grooved. Handel Society, Inc. 575,831, June 16; Serial No. 610,364, published Mar. 31, 1953.

Phonographs and record players. Vanity Fair Co. 575,964, June 16; Serial No. 627,991, published Mar. 31, 1953.

Pianos. Estey Piano Corp. 575,952, June 16; Serial No. 627,257, published Mar. 31, 1953.

Pianos. The Rudolph Wurlitzer Company. 355,363, Mar. 15, 1938. Canceled Apr. 21, 1953. O. G. June 16.

Sound recording and reproducing tape, Embossed or mechanically grooved. Daystrom, Incorporated. 575,944, June 16; Serial No. 626,446, published Mar. 31, 1953.

CLASS 37

Accounting boards and record sheets and forms. Charles R. Hadley Company. 575,811, June 16; Serial No. 601,726, published Mar. 3, 1953.

Blank or partially printed certificates. A. J. Cummings Co. 575,907–8, June 16; Serial Nos. 622,783–4, published Feb. 17, 1953.

Blank savings stamp books. Bonus Savings Stamp Co. 575,808, June 16; Serial No. 600,405, published Jan. 27, 1953.

Check book covers. The Todd Company, Inc. 576,031, June 16; Serial No. 631,583, published Mar. 10, 1953.

Envelopes, Correspondence. Sheppard Envelope Company. 575,763, June 16; Serial No. 549,281, published Feb. 10, 1953.

Moisteners for stamps, envelopes, gummed tape, etc. Northeastern Plastics, Inc. 575,989, June 16; Serial No. 629,685, published Mar. 10, 1953.

Paper, Oxford Paper Company. 304,797, renewed July 18, 1953. O. G. June 16.

Paperboard, Kraft. International Paper Company. 576,053, June 16; Serial No. 632,564, published Feb. 24, 1953.

Paper, Celery bleaching, letterheads, billheads, etc. The Lehon Company. 444,776–7, June 16; Serial Nos. 529,738–9, published Feb. 3, 1953.

Paper, Correspondence, and papeteries. Western Tablet & Stationery Corporation. 575,757, June 16; Serial No. 526,105, published Mar. 10, 1953.

Paper, Corrugated wrapping. Sherman Paper Products Corporation. 576,071, June 16; Serial No. 633,335, published Feb. 10, 1953.

Paper, Merchandise wrapping. Orchard Paper Co. 575,936, June 16; Serial No. 625,489, published Feb. 24, 1953.

Paper napkins. Menasha Products Company. 335,219, May 26, 1936. Canceled May 15, 1953. O. G. June 16.

Paper napkins. The Menasha Products Company. 338,716, Sept. 15, 1936. Canceled May 15, 1953. O. G. June 16.

Paper, Polyethylene laminated. Roseth Corporation. 575,996, June 16; Serial No. 629,955, published Feb. 10, 1953.

Paper, Printing. The Champion Paper and Fibre Company. 576,068, June 16; Serial No. 633,100, published Feb. 10, 1953.

Paper rolls, Small. Paper Manufacturers Co. 575,790, June 16; Serial No. 590,943, published Feb. 10, 1953.

Paper tablets. Western Tablet & Stationery Corporation. 575,756, June 16; Serial No. 526,087, published Feb. 24, 1953.

Paper tablets; papeteries. Western Tablet & Stationery Corporation. 575,755, June 16; Serial No. 526,015, published Feb. 10, 1953.

Paper, Toilet, paper towels, paper napkins, etc. Fort Howard Paper Company. 575,798, June 16; Serial No. 593,341, published Feb. 24, 1953.

Paper towels, facial tissues, and toilet tissues. John Sexton & Co. 576,002, June 16; Serial No. 630,216, published Mar. 10, 1953.

Papers, Translucent and transparent types of parchmentized tracing. Paterson Parchment Paper Company. 575,927, June 16; Serial No. 624,702, published Feb. 24, 1953.

Papers, Wrapping and toilet. Hubba & Corning Company. 294,487, May 31, 1932; republished June 16, 1953.

Partially printed forms. The Laudar Company. 575,829, June 16; Serial No. 610,131, published Feb. 24, 1953.

Partially printed forms. The Laudar Company. 575,835, June 16; Serial No. 610,853, published Feb. 24, 1953.

Pencil holders, Magnetic, and bulletin board assemblies. Magnetic Merchandising, Inc. 575,780, June 16; Serial No. 590,902, published Feb. 24, 1953.

Pencils, Lead, crayons, ink pencils, etc. A. W. Faber-Castell Pencil Company, Incorporated. 575,754, June 16; Serial No. 520,098, published Feb. 24, 1953.

Pencils, Wood encased lead, crayons, rubber erasers, etc. A. W. Faber-Castell Pencil Company, Incorporated. 575,753, June 16; Serial No. 516,064, published Mar. 3, 1953.

Pens. W. A. Sheaffer Pen Company. 303,041, renewed May 9, 1953. O. G. June 16.

Pens, Fountain, mechanical pencils and desk sets. The Parker Pen Company. 305,672, renewed Aug. 22, 1953. O. G. June 16.

Pens, Ink marking. Lanak-Roehl Mfg. Co. 576,047, June 16; Serial No. 632,380, published Feb. 24, 1953.

Plastic hanger frames for holding price tags. Midtown Manufacturing Corp. 575,906, June 16; Serial No. 622,612, published Mar. 24, 1953.

Stencils. V. Dougherty. 576,043, June 16; Serial No. 632,115, published Feb. 24, 1953.

Tissue, Cleansing. Veldown Company, Inc. 301,442, renewed Feb. 28, 1953. O. G. June 16.

Wallpapers. Devroe & Raynolds Company, Inc. 576,058, June 16; Serial No. 632,666, published Feb. 24, 1953.

Writing-paper, printing-paper, envelopes, etc. Eaton, Crane & Pike Company. 93,084, re-renewed Aug. 10, 1953. O. G. June 16.

CLASS 38

Beauty column. Tribune Company. 575,880, June 16; Serial No. 619,981, published Mar. 10, 1953.

Books. East European Fund, Inc. 575,993, June 16; Serial No. 629,782, published Mar. 17, 1953.

Books, pamphlets, brochures, etc. S. H. Patterson, Jr. 570,120, Feb. 10, 1953. Corrected. O. G. June 16.

Publication, Monthly. Corn Products Refining Company. 304,186, renewed June 27, 1953. O. G. June 16.

CLASS 39

Apparel, Women's wearing. Evelyn Pearson, Inc. 575,931, June 16; Serial No. 625,025, published Mar. 24, 1953.

Belts, Men's and women's. L. Kovacs. 576,051, June 16; Serial No. 632,481, published Feb. 24, 1953.

Belts, suspenders, mufflers, etc. M. A. Weiner Company. 575,807, June 16; Serial No. 600,400, published Mar. 10, 1953.

Bibs. Donovan Enterprises. 575,954, June 16; Serial No. 627,427, published Mar. 10, 1953.

Boots and shoes, Men's. United States Rubber Company. 575,823, June 16; Serial No. 607,729, published Mar. 24, 1953.

Boots, Rubber. Shoe Corporation of America. 575,997, June 16; Serial No. 629,059, published Mar. 24, 1953.

Boots, shoes, and slippers, and belts, Men's, women's, and children's. Brevitt Shoes Limited. 575,875, June 16; Serial No. 619,489, published Mar. 24, 1953.

Boots, skirts, belts, etc., Women's and girls'. Annie Oakley Enterprises. 575,895, June 16; Serial No. 621,646, published Mar. 17, 1953.

Caps, Overseas, ties, uniform shirts, etc. Veteran of Foreign Wars of the United States. 575,862, June 16; Serial No. 616,260, published Feb. 24, 1953.

Clothes, Hunting. The Hettrick Manufacturing Company. 575,830, June 16; Serial No. 610,968, published Mar. 10, 1953.

Clothing, Boys' and girls'. Winer Sportswear, Inc. 576,077, June 16; Serial No. 633,812, published Mar. 17, 1953.

Clothing, Men's. Baker Clothes, Inc. 576,004, June 16; Serial No. 630,376, published Mar. 10, 1953.

Coats and suits, Ladies', misses', and women's. Braff, Leidner & Eisenstadt Corp. 575,965, June 16; Serial No. 628,188, published Mar. 24, 1953.

Coats and suits, Misses'. Frank Boylin, Inc. 575,916, June 16; Serial No. 623,395, published Mar. 24, 1953.

Coats, suits, jackets, and outer skirts, Ladies' and misses'. Philip Shlansky & Sons, Inc. 575,882, June 16; Serial No. 620,234, published Mar. 24, 1953.

Coats, suits, jackets, and skirts, Ladies' and misses'. The House of Swansdown, Inc. 576,094, June 16; Serial No. 634,594, published Mar. 24, 1953.

Coats, Women's and misses'. Fenway Coats, Inc. 371,416, Sept. 26, 1939. Republished June 16.

Collars. M. H. Raab-Meyerhoff Co., Inc. 576,030, June 16; Serial No. 631,577, published Mar. 10, 1953.

Dresses and slips, Handmade, coats and bonnets, snowsuits, etc. Martin's. 575,873, June 16; Serial No. 618,973, published Mar. 17, 1953.

Dresses, Jackets, skirts, etc. Kay Murray Sportswear, Inc. 575,784, June 16; Serial No. 589,460, published Aug. 19, 1952.

Dresses, Ladies'. Anita Modes, Inc. 575,933, June 16; Serial No. 625,249, published Mar. 10, 1953.

Dresses, suits, skirts, etc., Women's. Weinberger Garment Company. 575,983, June 16; Serial No. 629,336, published Mar. 24, 1953.

Dungarees, Men's, women's, and children's; men's and children's Western dungarees, etc. Blue Bell, Inc. 576,039, June 16; Serial No. 631,918, published Mar. 10, 1953.

Footwear, Canvas and rubber. The Rubber Corporation of California. 576,064, June 16; Serial No. 632,903, published Mar. 24, 1953.

Garments, Men's, women's, and boys' leather outer. A. M. Harvitz. 576,015, June 16; Serial No. 630,934, published Mar. 10, 1953.

Handkerchiefs. Carolina Manufacturing Company. 575,772, June 16; Serial No. 577,939, published Mar. 10, 1953.

Hats, dresses, gloves, etc., Women's. Lilly Daché, Inc. 575,986, June 16; Serial No. 629,499, published Feb. 3, 1953.

Hats, Men's. I. Singer. 558,126, Apr. 22, 1952. Canceled May 8, 1953. O. G. June 16.

Heels and soles. Beebe Rubber Company. 576,001, June 16; Serial No. 630,181, published Mar. 24, 1953.

Helmets, Safety, and dust protective hoods and masks. Willson Products, Inc. 575,797, June 16; Serial No. 593,311, published Mar. 10, 1953.

Hosiery, fabric gloves, scarves, etc., Women's. New York Knitting Mills, Inc. 575,846, June 16; Serial No. 612,269, published Mar. 17, 1953.

Hosiery, Ladies'. Prim Hosiery, Incorporated. 576,079, June 16; Serial No. 633,872, published Mar. 17, 1953.

Hosiery, Women's. Barbara Jean's Beauty Sheer Hosiery, Inc. 576,089–90, June 16; Serial Nos. 634,290–1, published Mar. 17, 1953.

Hosiery, Women's. H. & K. Hosiery Co. 576,081, June 16; Serial No. 633,979, published Mar. 17, 1953.

Hosiery, Women's and misses'. H. Spiller. 576,048, June 16; Serial No. 632,397, published Mar. 17, 1953.

Jarkets, sport vests, blouses, etc., Men's and boys'. Carter Dry Goods Company. 575,930, June 16; Serial No. 624,929, published Mar. 3, 1953.

Men's wear. D. A. Goldberg. 576,011, June 16; Serial No. 630,839, published Mar. 10, 1953.

Moccasins, Leather. Thurlow Glove Company. 576,007, June 16; Serial No. 630,554, published Mar. 24, 1953.

Moccasins, Men's, women's, and children's. S. S. Reid. 575,958, June 16; Serial No. 627,601, published Mar. 3, 1953.

Neckwear, Men's. Price Cravat Co., Inc. 576,026, June 16; Serial No. 631,493, published Mar. 10, 1953.

Outerwear, Children's knit, and children's beach-wear. Glengyle Knitting Mills, Inc. 575,864, June 16; Serial No. 617,247, published Feb. 24, 1953.

Ready-to-wear and accessories, Women's. Hahn Department Stores, Inc. 302,058, Mar. 28, 1933. Republished June 16.

Scarves, stoles, midriffs, etc., Ladies' and misses'. Baar & Beards, Inc. 576,013, June 16; Serial No. 630,871, published Mar. 10, 1953.

Shanks for shoes. New England Shank Co., Inc. 576,019, June 16; Serial No. 631,065, published Mar. 24, 1953.

Shirts. Jets Inc. 575,977, June 16; Serial No. 629,025, published Mar. 10, 1953.

Shirts, Boys'. The Kaynee Company. 302,205, renewed Apr. 4, 1953. O. G. June 16.

Shirts, Men's outer. Pendleton Woolen Mills. 575,976, June 16; Serial No. 628,867, published Mar. 10, 1953.

Shoes. William Hahn & Company. 575,765, June 16; Serial No. 552,376, published Mar. 24, 1953.

Shoes. A. L. Plotkin. 575,800, June 16; Serial No. 593,934, published Mar. 24, 1953.

Shoes, Ruth Shoe Company. 575,904, June 16; Serial No. 622,413, published Mar. 24, 1953.

Shoes. Shoe Corporation of America. 575,767, June 16; Serial No. 559,253, published Mar. 24, 1953.

Shoes, S. Weiner. 373,434, Dec. 5, 1939. Canceled May 1, 1953. O. G. June 16.

Shoes, Wellco Shoe Corporation. 575,804, June 16; Serial No. 597,185, published Mar. 24, 1953.

Shoes, Westminster Shoe Co. Inc. 575,838, June 16; Serial No. 611,052, published Mar. 24, 1953.

Shoes and insoles therefor, Leather. Adler Sons Shoe Corp. 575,769, June 16; Serial No. 572,342, published Mar. 24, 1953.

Shoes and slippers. B. & B. Shoe Company. 575,828, June 16; Serial No. 609,355, published Mar. 24, 1953.

Shoes, boots, and oxfords, Men's and boys' leather. Red Wing Shoe Company, Inc. 575,773, June 16; Serial No. 578,898, published Mar. 24, 1953.

Shoes, dress, negligee and work shirts, neckties, etc., Men's. E. Fuhrman. 575,932, June 16; Serial No. 625,067, published Mar. 24, 1953.

Shoes, Infants'. Bloser Baby Shoe Co. 576,042, June 16; Serial No. 631,975, published Mar. 24, 1953.

Shoes, Ladies'. Metropolitan Shoemakers, Inc. 575,818, June 16; Serial No. 604,856, published Mar. 24, 1953.

Shoes, Ladies'. Scruggs-Vandervoort-Barney Dry Goods Company. 301,353, renewed Feb. 28, 1953. O. G. June 16.

Shoes, Ladies' and children's. E. M. Meyer. 575,884, June 16; Serial No. 620,520, published Mar. 24, 1953.

Shoes, Ladies' and misses'. Bally, Inc. 575,778, June 16; Serial No. 584,889, published Mar. 24, 1953.

Shoes, Ladies' and misses'. Bally, Inc. 575,870, June 16; Serial No. 618,283, published Mar. 24, 1953.

Shoes, Men's. The Associated Merchandising Corporation. 575,901, June 16; Serial No. 622,193, published Mar. 24, 1953.

Shoes, Men's. Freeman Shoe Corporation. 576,074, June 16; Serial No. 633,575, published Mar. 24, 1953.

Shoes, Men's and children's. United States Rubber Company. 575,920, June 16; Serial No. 623,858, published Mar. 24, 1953.

Shoes, Men's and women's and children's. Wall-Streeter Shoe Company. 575,911, June 16; Serial No. 623,095, published Mar. 24, 1953.

Shoes, Men's leather. Huth-James Shoe, Inc. 576,022, June 16; Serial No. 631,160, published Mar. 24, 1953.

Shoes, Men's, women's, and children's golf. S. E. Bishop. 575,867, June 16; Serial No. 617,858, published Mar. 24, 1953.

Shoes, Women's. B. Warshauer. 576,003, June 16; Serial No. 630,362, published Mar. 24, 1953.

Shoes, Women's and misses'. Prima, Incorporated. 575,861, June 16; Serial No. 616,243, published Mar. 24, 1953.

Shoes, Women's, misses' and children's. Sommer & Kaufmann. 575,752, June 16; Serial No. 510,864, published Mar. 24, 1953.

Slippers. Conductive Hospital Accessories Corporation. 575,999, June 16; Serial No. 629,989, published Mar. 24, 1953.

Slippers and clogs, Shower. B. Hecker Co. 576,046, June 16; Serial No. 632,372, published Mar. 24, 1953.

Slips and nightgowns, Ladies' and misses'. The Davidson Brothers Corp. 541,240, Apr. 17, 1951. Canceled May 1, 1953. O. G. June 16.

Soles and heels. The Goodyear Tire & Rubber Company. 576,059, June 16; Serial No. 632,670, published Mar. 24, 1953.

Sportswear, Ladies' and men's. Montecito Apparel, Inc. 576,020, June 16; Serial No. 631,361, published Mar. 24, 1953.

Suits, outer shirts and neckties, Men's. Societe Anonyme Jeanne Lanvin. 576,027, June 16; Serial No. 631,520, published Mar. 10, 1953.

Suits, pants, and overcoats, Men's. A. Sagner's Son. 576,010, June 16; Serial No. 630,800, published Mar. 10, 1953.

Suits, topcoats, overcoats, etc., Men's and boys'. Atlantic Clothing Co., Inc. 575,869, June 16; Serial No. 618,281, published Feb. 24, 1953.

Sweaters, Women's misses', and girls' slipover and cardigan. Roepple Sportswear Mills, Inc. 576,035, June 16; Serial No. 632,393, published Mar. 17, 1953.

Topcoats and overcoats, Men's. Isaac Cohen & Son Clothes Co., Inc. 575,816, June 16; Serial No. 604,421, published Mar. 10, 1953.

Top lifts, taps and stripe for heels and soles for shoes. Morris Feldstein & Son, Inc. 576,009, June 16; Serial No. 630,773, published Mar. 24, 1953.

Trousers, Men's. The Moyer Manufacturing Company. 575,994, June 16; Serial No. 629,858, published Mar. 17, 1953.

CLASS 40

Buttons. Schalet-Pollack Corporation. 575,783, June 16; Serial No. 587,825, published Jan. 20, 1953.

Needles, Hand sewing. World Merchandise Exchange & Trading Co., Inc. 575,998, June 16; Serial No. 629,980, published Feb. 10, 1953.

Pins, Bank, dressmaker pins, silk pins, etc. Scovill Manufacturing Company. 575,899, June 16; Serial No. 621,987, published Feb. 10, 1953.

Snap-buttons. Waldes & Co. 92,150, re-renewed June 17, 1953. O. G. June 16.

CLASS 42

Bedspreads, Chenille, chenille and loop rugs, chenille tufted yard goods, etc. King Cotton, Inc. 575,960, June 16; Serial No. 627,824, published Nov. 18, 1952.

Fabric, Automobile seat cover. Ansonia Mills, Inc. 575,937, June 16; Serial No. 625,513, published Mar. 31, 1953.

Fabric, Impregnated and rubberized cotton. Société à Responsabilité Limitée dite: Comptoir de l'Industrie Cotonnière, Etablissements Boussac. 576,036, June 16; Serial No. 632,631, published Mar. 31, 1953.

Fabrics. American Bemberg Corporation. 289,627, renewed Dec. 13, 1952. O. G. June 16.

Fabrics. Joseph Bancroft & Sons Co. 575,970–1, June 16; Serial Nos. 628,606–7, published Mar. 31, 1953.

Fabrics, Coated and uncoated. Birshtein Furniture Studios. 575,903, June 16; Serial No. 622,295, published Mar. 31, 1953.

Fabrics, Cotton, towels, pillow cases, etc. Franklin Textile Corporation. 305,286, renewed Aug. 8, 1953. O. G. June 16.

Fabrics, Interlining. Vintex Corporation of America. 576,096, June 16; Serial No. 634,614, published Mar. 31, 1953.

Fabrics, Knitted, netted, and textile. J. A. Riley & Co., Inc. 575,845, June 16; Serial No. 612,136, published Mar. 31, 1953.

Fabrics, Textile. Botany Worsted Mills. 305,633, renewed Aug. 22, 1953. O. G. June 16.

Fabrics, Textile. Wennonah Cotton Mills Company. 576,073, June 16; Serial No. 633,523, published Mar. 31, 1953.

Piece goods. William Heller, Incorporated. 575,961, June 16; Serial No. 627,879, published Mar. 31, 1953.

Piece goods. Palm Beach Fabrics, Inc. 575,820, June 16; Serial No. 606,170, published Mar. 31, 1953.

Piece goods. Rice-Stix, Inc. 576,108, June 16; Serial No. 635,375, published Mar. 31, 1953.

Piece goods, Cotton. Ely & Walker Dry Goods Company. 575,787, June 16; Serial No. 589,571, published Mar. 31, 1953.

Piece goods, Cotton. Gribbon, Lange & Steven. 90,325, re-renewed Feb. 18, 1953. O. G. June 16.

Piece goods, Cotton. Stein-Tex, Inc. 549,726, Oct. 16, 1951. Canceled Apr. 24, 1953. O. G. June 16.

Pillow cases, Finished. Minot, Hooper & Co. 301,483, renewed Mar. 7, 1953. O. G. June 16.

Quilted mattress pads and protectors. National Sure-Fit Quilting Co., Inc. 576,000, June 16; Serial No. 630,017, published Nov. 18, 1952.

Sheets, Finished. Minot, Hooper & Co. 301,485, renewed Mar. 7, 1953. O. G. June 16.

Sheets, pillow-cases and sheeting. Franklin Textile Corporation. 305,166, renewed Aug. 8, 1953. O. G. June 16.

Sheets, sheeting and pillowcases. Riverside & Dan River Cotton Mills, Inc. 430,686, June 17, 1947. Canceled Apr. 21, 1953. O. G. June 16.

Table cloths and napkins. Cotton, and cotton piece goods. W. Snower. 575,872, June 16; Serial No. 618,943, published Mar. 31, 1953.

Textile products. Jensen-McLean Co., Inc. 575,894, June 16; Serial No. 621,561, published Mar. 31, 1953.

CLASS 44

Dental operative abrading unit. The S. S. White Dental Manufacturing Company. 575,825, June 16; Serial No. 608,729, published Mar. 24, 1953.

Dental products. R. S. Wolfram. 575,794, June 16; Serial No. 592,402, published Mar. 24, 1953.

Electrical vibrators for therapeutical use and electric hair dryers. The A. C. Gilbert Company. 302,126, renewed Mar. 28, 1953. O. G. June 16.

CLASS 45

Beverage, Carbonated Cola. Nehi Corporation. 575,759, June 16; Serial No. 533,043, published Mar. 3, 1953.

Beverage, Non-alcoholic, maltless. Grandpa Brands Company. 575,841, June 16; Serial No. 611,224, published Mar. 3, 1953.

Beverages, Carbonated nonalcoholic maltless. Cott Beverage Corporation. 575,871, June 16; Serial No. 618,290, published Mar. 10, 1953.

Beverages, Non-alcoholic, maltless. Booth Bottling Co., Inc. 575,959 June 16; Serial No. 627,797, published Mar. 3, 1953.

Mineral and aerated waters, nonalcoholic maltless soft drinks and syrups. F. N. Shields. 576,049, June 16; Serial No. 632,440, published Mar. 22, 1953.

Soft drinks, Non-alcoholic, maltless. J. C. Core, Jr. 576,017, June 16; Serial No. 630,987, published Mar. 3, 1953.

CLASS 46

Baked goods. E. H. Farnsworth. 576,018, June 16; Serial No. 631,053, published Mar. 17, 1953.

Biscuits. Spratt's Patent Limited. 92,281, re-renewed June 24, 1953. O. G. June 16.

Candy. Euclid Candy Company of California, Inc. 303,011, renewed May 9, 1953. O. G. June 16.

Candy. Gregor Chocolates, Inc. 576,138, June 16; Serial No. 578,389.

Candy. Peter Paul, Inc. 576,112, June 16; Serial No. 635,661, published Mar. 17, 1953.

Canned and frozen vegetables, and canned fruits. James Penwick Company. 575,866, June 16; Serial No. 617,583, published Mar. 24, 1953.

Canned dog food. Evans Industries, Inc. 576,014, June 16; Serial No. 630,928, published Mar. 17, 1953.

Canned fruit juices. The Bib Corporation. 575,948, June 16; Serial No. 626,779, published Mar. 17, 1953.

Canned fruits. The Leadway Stores Corporation. 301,329, renewed Feb. 28, 1953. O. G. June 16.

Canned fruits, canned vegetables, canned fish, etc. Haas, Baruch & Co. 576,063, June 16; Serial No. 632,881, published Mar. 17, 1953.

Canned salmon. Keystone Packing Co. 576,008, June 16; Serial No. 630,712, published Mar. 17, 1953.

Canned sardines. Alexander Packing Corporation. 575,855, June 16; Serial No. 615,039, published Mar. 17, 1953.

Canned vegetables. Stetson & Ellison Co. 92,139, renewed June 17, 1953. O. G. June 16.

Canned vegetables, canned fruits, canned hominy, etc. Gibbs & Company, Incorporated. 305,918, renewed Aug. 29, 1953. O. G. June 16.

Cheese. Fisher Dairy and Cheese Company. 524,333, Apr. 25, 1950. Canceled Apr. 24, 1953. O. G. June 16.

Cheese. Fisher Dairy and Cheese Company. 525,912, June 6, 1950. Canceled Apr. 24, 1953. O. G. June 16.

Chickens. The Wm. Schluderberg-T. J. Kurdle Company. 576,001, June 16; Serial No. 632,694, published Mar. 17, 1953.

Coatings for frozen confections, Flavored, and a vegetable oil used as a thinner for said coatings. J. B. Kisky. 576,062, June 16; Serial No. 632,841, published Mar. 24, 1953.

Feed, Formula. D. A. Long. 575,868, June 16; Serial No. 618,172, published Mar. 17, 1953.

Feed, Poultry. Hilltop Farm Feed Company. 414,331, June 5, 1945. Restricted. O. G. June 16.

Fish, Smoked dried boneless. A. Aloff. 576,041, June 16; Serial No. 631,968, published Mar. 17, 1953.

Flavoring extracts, vegetable oil, meat and vegetable sauces, etc. F. D. de Quenin Olier. 575,839, June 16; Serial No. 611,144, published Mar. 17, 1953.

Flour, Wheat, corn meal, poultry feed, etc. R. M. Peek. 575,771, June 16; Serial No. 575,086, published Mar. 24, 1953.

Food, Breakfast. R. A. Isenberg. 575,860, June 16; Serial No. 616,033, published Mar. 17, 1953.

Food products, Frozen. Bong-Fong, Inc. 576,117, June 16; Serial No. 636,200, published Mar. 24, 1953.

Food seasoning. Large Charge Corporation of America, Inc. 576,032, June 16; Serial No. 631,625, published Mar. 17, 1953.

Fruit acid solution for food purposes, baking powders, fondants, etc. Huter-Quest & Co., Inc. 575,943, June 16; Serial No. 626,328, published Mar. 17, 1953.

Fruit preserves and jellies. West Virginia Packing Corporation. 575,761, June 16; Serial No. 546,531, published Mar. 17, 1953.

Grapes, Fresh. Hoak Packing Company, Inc. 576,083, June 16; Serial No. 634,086, published Mar. 24, 1953.

Guinea, Dressed domestic, and dressed China geese. J. Makowsky. 575,782, June 16; Serial No. 587,441, published Mar. 17, 1953.

Ice cream cones. S. & S. Cone Corporation. 301,170, renewed Feb. 21, 1953. O. G. June 16.

Ice cream, sherbet, and ice cream cake rolls. The Borden Company. 575,826, June 16; Serial No. 608,813, published Mar. 17, 1953.

Lard. Swift & Company. 576,103, June 16; Serial No. 635,004, published Mar. 17, 1953.

Macaroni shells; ready-cut spaghetti; thin spaghetti, etc. The Creamette Company. 576,129, June 16; Serial No. 640,728, published Mar. 24, 1953.

Meat, Chopped horse. Eastern Packing Company, Inc. 575,793, June 16; Serial No. 591,286, published Mar. 24, 1953.

Milk products. Carnation Company. 575,865, June 16; Serial No. 617,390, published Mar. 17, 1953.

Olive oil. Stefano Crisafulli. 304,230, renewed June 27, 1953. O. G. June 16.

Olives. Strohmeyer & Arpe Company. 576,128, June 16; Serial No. 640,237, published Mar. 24, 1953.

Peanuts, French fried. The Palms Peanut Company. 575,898, June 16; Serial No. 621,836, published Mar. 24, 1953.

Pickles and pickle relish. Missouri Pickle Company. 575,937, June 16; Serial No. 627,592, published Mar. 17, 1953.

Pies, Icebox cookie rolls, layer cakes, etc. Mrs. Lee's Pies, Inc. 575,987, June 16; Serial No. 629,575, published Mar. 31, 1953.

Potato chips; popped corn; cookies; etc. Gordon Foods, Inc. 575,844, June 16; Serial No. 612,065, published Mar. 17, 1953.

Poultry and egg products. Washington Co-Operative Farmers Association. 575,758, June 16; Serial No. 530,137, published Mar. 17, 1953.

Poultry, Dressed. Witt's Market House, Inc. 575,764, June 16; Serial No. 552,373, published Mar. 24, 1953.

Poultry, Fresh and frozen dressed, frozen fish, oleomargarine, etc. J. J. Balderacchi. 575,881, June 16; Serial No. 619,983, published Mar. 17, 1953.

Salad dressing, vinegar, canned vegetables. The Leadway Stores Corporation. 303,133, renewed May 9, 1953. O. G. June 16.

Sauce, Louis Milani Foods, Inc. 575,950, June 16; Serial No. 627,000, published Mar. 24, 1953.

Sauce, All purpose. L. B. Haberle. 575,850, June 16; Serial No. 613,668, published Mar. 24, 1953.

Sauces, Condiment; cooked wild rice; canned fish, etc. Murray Hill Restaurant, Inc. 575,840, June 16; Serial No. 611,191, published Mar. 24, 1953.

Sauce, All-purpose, meat sauce, fish sauce, etc. A. O. Lindquist. 576,012, June 16; Serial No. 630,848, published Mar. 17, 1953.

Shrimp, Frozen. Florida Frozen Fish Products, Inc. 576,065, June 16; Serial No. 633,052, published Mar. 17, 1953.

Soya bean oils, Edible. E. F. Drew & Co., Inc. 575,832, June 16; Serial No. 610,616, published Mar. 24, 1953.

Stabilizer including vegetable gum and pectin. Crest Foods Co. 575,888, June 16; Serial No. 620,874, published Mar. 17, 1953.

Stabilizer suitable for use in frozen desserts. Crest Foods Co. 575,889, June 16; Serial No. 620,875, published Mar. 17, 1953.

Sugar, sugar syrup, invert sugar and liquid sugar. American Molasses Company. 576,023, June 16; Serial No. 631,193, published Mar. 17, 1953.

Turkey, Boned, turkey and broth, egg noodles and turkey, etc. Washington Creamery Company. 575,775, June 16; Serial No. 580,386, published July 11, 1950.

Turkeys, Dressed, and turkey meat. H. Schmikler. 576,123, June 16; Serial No. 637,335, published Mar. 31, 1953.

Vegetable oil food products. Anderson, Clayton & Co. 576,024, June 16; Serial No. 631,232, published Mar. 17, 1953.

Vegetable oil food products. Anderson, Clayton & Co. 576,093, June 16; Serial No. 634,516, published Mar. 17, 1953.

Vegetables and melons, Fresh. A. E. Engelman. 576,119, June 16; Serial No. 636,516, published Mar. 24, 1953.

Vinegar. Laird & Co., Inc. 305,903, renewed Aug. 29, 1953. O. G. June 16.

Whey, Dried. Western Condensing Company. 576,160, June 16; Serial No. 635,617.

CLASS 47

Champagne. Societe a Responsabilite Limitee Kunkelmann & Cie. 575,785, June 16; Serial No. 589,476, published Mar. 3, 1953.

Champagne wines. J. Dapfieu. 575,906, June 16; Serial No. 628,260 published Mar. 24, 1953.

Vermouth. Martini & Rossi Corporation. 575,915, June 16; Serial No. 623,151, published Mar. 3, 1953.

Wine, Burgundy. Comunidad Vina San Jose-Tocornal. 575,914, June 16; Serial No. 623,126, published Mar. 24, 1953.

Wines. F. A. Bonanno. 575,791, June 16; Serial No. 591,069, published Mar. 24, 1953.

Wines, California Growers Wineries. 575,803, June 16; Serial No. 596,651, published Mar. 24, 1953.

Wines, Schenley Import Corporation. 576,075, June 16; Serial No. 633,739, published Mar. 3, 1953.

Wines, Spitzer Bros., Inc. 322,638, Mar. 12, 1935. Canceled May 1, 1953. O. G. June 16.

CLASS 48

Beer, Bosch Brewing Company. 575,902, June 16; Serial No. 622,196, published Mar. 10, 1953.

Beer, Wm. J. Lemp Brewing Co. 40,948-9, re-renewed Aug. 18, 1953. O. G. June 16.

Beer, Maier Brewing Company. 575,890, June 16; Serial No. 620,921, published Mar. 3, 1953.

Beer, Sicks' Seattle Brewing & Malting Co. 575,972, June 16; Serial No. 628,663, published Mar. 24, 1953.

Beer, ale and porter. F. N. Shields. 576,050, June 16; Serial No. 632,447, published Mar. 17, 1953.

CLASS 49

Alcoholic beverages. Hunter-Wilson Distilling Co. Inc. 576,101, June 16; Serial No. 634,000, published Mar. 24, 1953.

Brandy. Bisquit Dubouché & Compagnie, Laporte Bisquit & Compagnie, Successeurs, Societe a Responsabilite Limitee. 575,770, June 16; Serial No. 573,611, published Mar. 3, 1953.

Gin. Erven Lucas Bols, Incorporated. 575,918, June 16; Serial No. 623,642, published Feb. 17, 1953.

Pure grain alcohol. Publicker Commercial Alcohol Company. 303,807, renewed June 6, 1953. O. G. June 16.

Vodka. The American Distilling Company. 576,067, June 16; Serial No. 633,096, published Mar. 24, 1953.

Whisky. Stitzel-Weller Distillery. 575,946, June 16; Serial No. 626,595, published Mar. 3, 1953.

Whiskey, Canadian. Jas. Barclay & Co. Limited. 575,951, June 16; Serial No. 627,058, published Mar. 3, 1953.

Whiskey, Canadian. Schenley Import Corporation. 575,963, June 16; Serial No. 627,962, published Mar. 3, 1953.

Whiskey, Scotch. Churtons Limited. 575,814, June 16; Serial No. 602,083, published Mar. 3, 1953.

Whisky, Slater, Rodger & Company, Limited. 303,257, renewed May 16, 1953. O. G. June 16.

Whisky, rum gin, and brandy. J. G. Turney & Son Limited. 302,738, renewed Apr. 25, 1953. O. G. June 16.

Whisky, Scotch. S. Campbell & Son Limited. 305,157, renewed Aug. 8, 1953. O. G. June 16.

Whisky, Scotch. Macdonald & Muir Limited. 576,065, June 16; Serial No. 630,432, published Mar. 10, 1953.

Whisky, Scotch. James & George Stodart, Limited. 575,821, June 16; Serial No. 606,243, published Mar. 3, 1953.

CLASS 50

Cork disks and washers. New Process Cork Company. 92,905, re-renewed Aug. 5, 1953. O. G. June 16.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. Comfort Manufacturing Company. 304,491, renewed July 11, 1953. O. G. June 16.

Denture cleanser, Palmalfay Company, Inc. 575,995, June 16; Serial No. 629,860, published Feb. 17, 1953.

Face and body creams, etc. "Parfums Christian Dior." 508,868, Apr. 19, 1949. Canceled Apr. 21, 1953. O. G. June 16.

Lotion, After-shave, a deodorant, and a hair preparation. The Mennen Company. 576,098, June 16; Serial No. 634,649, published Feb. 17, 1953.

Lotion, Hand, and colognes. Annie Oakley Enterprises. 575,896, June 16; Serial No. 621,647, published Feb. 17, 1953.

Lotion, Skin, and face cream. Veland Products, Inc. 575,827, June 16; Serial No. 608,842, published Mar. 10, 1953.

Perfumes. Societe Worth. 301,937, renewed Mar. 21, 1953. O. G. June 16.

Perfumes. Societe Worth. 303,565, renewed May 30, 1953. O. G. June 16.

Perfumes, toilet waters, etc. Societe a Responsabilite Limitee Parfums Christian Dior. 528,275, Aug. 1, 1950. Canceled Apr. 21, 1953. O. G. June 16.

CLASS 52

Cleaning compound. The J. B. Ford Company. 301,519, renewed Mar. 7, 1953. O. G. June 16.

Non-ionic, fatty acid ester type dispersing agent. Commonwealth Color & Chemical Company. 575,934, June 16; Serial No. 625,254, published Mar. 17, 1953.

Soap and for sudsing cleaner and detergent. Suds-All Company, Inc. 576,146, June 16; Serial No. 607,524.

Preparation for washing, coating and strengthening textiles and textile fabrics. Seeman Brothers, Inc. 576,088, June 16; Serial No. 634,271, published Mar. 17, 1953.

Soap, Antiseptic. Grace-Lee Products Inc. 576,142, June 16; Serial No. 600,668.

CLASS 100

Haircutting, shampooing, rinsing, bleaching and dyeing hair, etc. Charles of the Ritz Operating Corporation. 576,132, June 16; Serial No. 603,835, published Mar. 31, 1953.

Promoting interest in religion and the Bible. Reverend T. Epp. 576,133, June 16; Serial No. 620,987, published Mar. 31, 1953.

Technical or engineering services. Latil Corporation. 576,164, June 16; Serial No. 534,536.

CLASS 101

Telephone answering service and mail address service. The Bell Answering System. 559,999, June 10, 1952. Canceled Apr. 29, 1953. O. G. June 16.

CLASS 102

Real estate brokerage. Foreman Brothers. 576,166, June 16; Serial No. 612,998.

CLASS 103

Fur and garment cleaning and storage services. Walter Haertel Company. 576,130, June 16; Serial No. 557,605, published Sept. 26, 1950.

Fur and garment cleaning and storage services. Walter Haertel Company. 576,131, June 16; Serial No. 557,606, published Oct. 10, 1950.

CLASS 105

Transportation of freight. Mohawk Motor Lines, Inc. 576,169, June 16; Serial No. 637,933.

CLASS 106

Copper brazing of steel parts. The Metal Electric Processing Company. 576,134, June 16; Serial No. 621,076, published Mar. 31, 1953.

Dyeing and finishing fabrics. Hull Dye Works. 576,168, June 16; Serial No. 632,940.

Engraving designs on textile rolls, etc. R. A. Goudie & Sons. 576,165, June 16; Serial No. 605,213.

CLASS 107

Auto driver training. Easy Method Auto Driver Training School Inc. 576,135, June 16; Serial No. 628,681, published Mar. 31, 1953.

Entertainment service. Herbert Deutrich. 576,167, June 16; Serial No. 620,665.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

New Jersey Machine Corporation, assignee: *See*—
Von Hofe, George W.

Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Label applying mechanism. Re. 23,668. June 16.

LIST OF PLANT PATENTEES

Corliss Bros., Inc., assignee: *See*—
Corliss, Clifford D.

Corliss, Clifford D., assignor to Corliss Bros., Inc., Gloucester, Mass. Euonymus fortunei plant. 1,194, June 16.

Corliss, Clifford D., assignor to Corliss Bros., Inc., Gloucester, Mass. Euonymus fortunei plant. 1,195, June 16.

Engkvist, Bror, Halsingborg, Sweden, assignor, by mesne assignments, to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,196, June 16.

Jackson & Perkins Company, assignee: *See*—
Engkvist, Bror.
Kordes, Wilhelm.

Kordes, Wilhelm, Holstein, Germany, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,197, June 16.

LIST OF DESIGN PATENTEES

American Floor Surfacing Machine Company, The, assignee: *See*—
Latimer, Charles A., and Freund.

Arvin Industries, Inc., assignee: *See*—
Farr, Edward A.

Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer trough. 169,834, June 16.

Billingsley, William F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 169,835, June 16.

Billingsley, William F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 169,836, June 16.

Blander, Julius, Brooklyn, N. Y. Spreader tool. 169,837, June 16.

Blum, Louis, New York, N. Y. Textile fabric. 169,838, June 16.

Borg-Warner Corporation, assignee: *See*—
Trombley, Bertrand N.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Del Mas, Christy M., assignors to Grace-Mas Enterprises, Inc., New York, N. Y. Closure for collapsible tubes. 169,839, June 16.

Desley Fabrics, Division of J. H. Thorp and Co. Inc., assignee: *See*—
Holland, Annette.

Everfast Fabrics, Inc., assignee: *See*—
Molenaor, Edna M.

Farr, Edward A., assignor to Arvin Industries, Inc., Columbus, Ind. Heater. 169,840, June 16.

Fath, Arthur, Blue Ash, Ohio. Gardening tool headpiece. 169,841, June 16.

Freund, Dean H.: *See*—
Latimer, Charles A., and Freund.

Gaggia, Giovanni, Milan, Italy. Combination pressure coffee maker and dispenser. 169,842, June 16.

Gerson, Samuel L., Wilmington, Del. Combined cleaver, tenderizer, and saw or similar article. 169,843, June 16.

Goodman Manufacturing Company, assignee: *See*—
Bergmann, Ernst R.

Goodrich, B. F., Company, The, assignee: *See*—
Billingsley, William F.

Grace-Mas Enterprises, Inc., assignee: *See*—
Del Mas, Christy M.

Holland, Annette, assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y. Textile fabric or similar article. 169,844, June 16.

Holland, Annette, assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y. Textile fabric or similar article. 169,845, June 16.

Hotchner, Fred, Los Angeles, Calif. Toy bug. 169,846, June 16.

Inman, Mahlon, Nashville, Tenn. Set of playing cards. 169,847, June 16.

Josephson, Léon, Paris, France. Brassière. 169,848, June 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,849, June 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,850, June 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 169,851, June 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,852, June 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,853, June 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,854, June 16.

Kay, Stanley W., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 169,855, June 16.

Kay, Stanley W., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 169,856, June 16.

Keyes Fibre Company, assignee: *See*—
Williams, Philip M.

Klint, Bernard C., assignor to B. C. and G. Klint, D. and E. Nyberg, and R. E. Klint, copartners, doing business at Rockford, Ill., under the firm name of Ny-Lint Tool & Mfg. Co. Toy vehicle tire. 169,857, June 16.

Klint, Grace, assignee: *See*—
Klint, Bernard C.

Klint, Ragnar E., assignee: *See*—
Klint, Bernard C.

Latimer, Charles A., and D. H. Freund, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio. Electric chain saw. 169,858, June 16.

Mason, William H., Los Altos, Calif., assignor to Zip Products Co. Staple puller. 169,859, June 16.

Molenaor, Edna M., Rutherford, N. J., assignor to Everfast Fabrics, Inc., New York, N. Y. Textile fabric. 169,860, June 16.

Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,861, June 16.

Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,862, June 16.

Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,863, June 16.

Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,864, June 16.

Nesco, Inc., assignee: *See*—
Wagner, Franz.

Nyberg, David, assignee: *See*—
Klint, Bernard C.

Nyberg, Emma, assignee: *See*—
Klint, Bernard C.

Nye, Clarence, Reading, Pa. Stocking. 169,865, June 16.

Ny-Lint Tool & Mfg. Co., assignee: *See*—
Klint, Bernard C.

LIST OF REISSUE PATENTEES

TO WHOM

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New Jersey Machine Corporation, assignee: *See*—
Von Hofe, George W.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Label applying mechanism. Re. 23,668, June 16.

LIST OF PLANT PATENTEES

Corliss Bros., Inc., assignee: *See*—
Corliss, Clifford D.
Corliss, Clifford D., assignor to Corliss Bros., Inc., Gloucester, Mass. Euonymus fortunei plant. 1,194, June 16.
Corliss, Clifford D., assignor to Corliss Bros., Inc., Gloucester, Mass. Euonymus fortunei plant. 1,195, June 16.
Engkvist, Bror, Helsingborg, Sweden, assignor, by mesne assignments, to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,196, June 16.
Jackson & Perkins Company, assignee: *See*—
Engkvist, Bror.
Kordes, Wilhelm.
Kordes, Wilhelm, Holstein, Germany, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,197, June 16.

LIST OF DESIGN PATENTEES

American Floor Surfacing Machine Company, The, assignee: *See*—
Latimer, Charles A., and Freund.
Arvin Industries, Inc., assignee: *See*—
Farr, Edward A.
Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer trough. 169,834, June 16.
Billingsley, William F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 169,835, June 16.
Billingsley, William F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 169,836, June 16.
Blander, Julius, Brooklyn, N. Y. Spreader tool. 169,837, June 16.
Bluhm, Louis, New York, N. Y. Textile fabric. 169,838, June 16.
Borg-Warner Corporation, assignee: *See*—
Trombley, Bertrand N.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Del Mas, Christy M., assignors to Grace-Mas Enterprises, Inc., New York, N. Y. Closure for collapsible tubes. 169,839, June 16.
Desley Fabrics, Division of J. H. Thorp and Co. Inc., assignee: *See*—
Holland, Annette.
Everfast Fabrics, Inc., assignee: *See*—
Molenaor, Edna M.
Farr, Edward A., assignor to Arvin Industries, Inc., Columbus, Ind. Heater. 169,840, June 16.
Fath, Arthur, Blue Ash, Ohio. Gardening tool headpiece. 169,841, June 16.
Freund, Dean H.: *See*—
Latimer, Charles A., and Freund.
Gaggia, Giovanni, Milan, Italy. Combination pressure coffee maker and dispenser. 169,842, June 16.
Gerson, Samuel L., Wilmington, Del. Combined cleaver, tenderizer, and saw or similar article. 169,843, June 16.
Goodman Manufacturing Company, assignee: *See*—
Bergmann, Ernst R.
Goodrich, B. F., Company, The, assignee: *See*—
Billingsley, William F.
Grace-Mas Enterprises, Inc., assignee: *See*—
Del Mas, Christy M.
Holland, Annette, assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y. Textile fabric or similar article. 169,844, June 16.
Holland, Annette, assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y. Textile fabric or similar article. 169,845, June 16.
Hotchner, Fred, Los Angeles, Calif. Toy bug. 169,846, June 16.
Inman, Mahlon, Nashville, Tenn. Set of playing cards. 169,847, June 16.
Josephson, Léon, Paris, France. Brassière. 169,848, June 16.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,849, June 16.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,850, June 16.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 169,851, June 16.
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Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 169,853, June 16.
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Kay, Stanley W., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 169,855, June 16.
Kay, Stanley W., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 169,856, June 16.
Keyes Fibre Company, assignee: *See*—
Williams, Philip M.
Klint, Bernard C., assignor to B. C. and G. Klint, D. and E. Nyberg, and R. E. Klint, copartners, doing business at Rockford, Ill., under the firm name of Ny-Lint Tool & Mfg. Co. Toy vehicle tire. 169,857, June 16.
Klint, Grace, assignee: *See*—
Klint, Bernard C.
Klint, Ragnar E., assignee: *See*—
Klint, Bernard C.
Latimer, Charles A., and D. H. Freund, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio. Electric chain saw. 169,858, June 16.
Mixson, William H., Los Altos, Calif., assignor to Zip Products Co. Staple puller. 169,859, June 16.
Molenaor, Edna M., Rutherford, N. J., assignor to Everfast Fabrics, Inc., New York, N. Y. Textile fabric. 169,860, June 16.
Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,861, June 16.
Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,862, June 16.
Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,863, June 16.
Myser, Henri J., Mount Vernon, Ill. Toy airplane or similar article. 169,864, June 16.
Nesco, Inc., assignee: *See*—
Wagner, Frans.
Nyberg, David, assignee: *See*—
Klint, Bernard C.
Nyberg, Emma, assignee: *See*—
Klint, Bernard C.
Nye, Clarence, Reading, Pa. Stocking. 169,865, June 16.
Ny-Lint Tool & Mfg. Co., assignee: *See*—
Klint, Bernard C.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Kay, Stanley W.

Rice, Earl A., Mercersburg, Pa. Annular transparent aquarium. 169,866, June 16.

Sanford Products, Incorporated, assignee: *See*—
Sanford, Roy S.

Sanford, Roy S., assignor to Sanford Products, Incorporated, Woodbury, Conn. Coffee table. 169,867, June 16.

Schwartz, Stanley M., assignor to R. Weinstein, Los Angeles, Calif. Table or similar article. 169,868, June 16.

Shapiro, Charles, assignor to Shapiro & Son Curtain Corp., New York, N. Y. Bedspread or similar article. 169,869, June 16.

Shapiro, Charles, assignor to Shapiro & Son Curtain Corp., New York, N. Y. Bedspread or similar article. 169,870, June 16.

Shapiro & Son Curtain Corp., assignee: *See*—
Shapiro, Charles.

Speer, Harold L. and M. K., Santa Cruz, Calif. Illuminable shadow box or similar article. 169,871, June 16.

Speer, Marcherette K.: *See*—
Speer, Harold L. and M. K.

Thatcher Glass Manufacturing Company, Inc., assignee: *See*—
York, Raymond R.

Trombley, Bertrand N., Birmingham, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Combined top and backguard control panel for a washing machine. 169,872, June 16.

Vogl, Hugh W., Wilmette, Ill. Lawn aprinkler or the like. 169,873, June 16.

Wagner, Franz, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis. Combined electric roaster and cabinet. 169,874, June 16.

Wagner, Franz, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis. Electric roaster. 169,875, June 16.

Wagner, Franz, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis. Electric roaster. 169,876, June 16.

Wagner, Franz, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis. Electric roaster. 169,877, June 16.

Washington, Nathaniel W., Ephrata, Wash. Manipulative toy. 169,878, June 16.

Weinberg, Sol, New York, N. Y. Textile fabric. 169,879, June 16.

Regina Weinstein, assignee: *See*—
Schwartz, Stanley M.

Weinstein, Regina.

Williams, Edwin H., Louisville, Ky. Practice golf club. 169,880, June 16.

Williams, Philip M., Oakland, assignor to Keyes Fibre Company, Portland, Maine. Packing member for fragile articles. 169,881, June 16.

Williams, Philip M., Oakland, assignor to Keyes Fibre Company, Portland, Maine. Packing member for fragile articles. 169,882, June 16.

Williams, Philip M., Oakland, assignor to Keyes Fibre Company, Portland, Maine. Packing member for fragile articles. 169,883, June 16.

York, Raymond R., assignor to Thatcher Glass Manufacturing Company, Inc., Elmira, N. Y. Bottle. 169,884, June 16.

Zip Producta Co., assignee: *See*—
Mason, William H.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1953

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Abbott Laboratories, assignee: *See*—
Hasbrouck, Richard B.

Acme Brick Company, assignee: *See*—
Cushing, Ivan E., and Slaughter.

Adams, Stafford M. S., Windsor, Ontario, assignor to Truscon Steel Company of Canada, Limited, Walkerville, Ontario, Canada. Making metal cross bar joints. 2,641,825, June 16.

Admiral Corporation, assignee: *See*—
Carlson, Reuben C.
Eck, Floyd R.
Swanson, Edward W.

Aeroquip Corporation, assignee: *See*—
Lafoon, Charles A.

Aerosol Corporation of America, assignee: *See*—
Dautrebande, Lucien.

Ahlbrecht, Arthur H., White Bear Township, Ramsey County, T. S. Reid, New Canada Township, Ramsey County, and D. R. Husted, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Fluorinated acrylates and polymers. 2,642,416, June 16.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Howell, Wallace E.

Aircraft Radio Corporation, assignee: *See*—
McCouch, Gordon P.

Airkem, Inc., assignee: *See*—
Meek, George W., and Wheeler.

Akaboshi, Michijiro: *See*—
Tomonari, Tsukumo, and Akaboshi.

Aktiebolaget Svenska Kullagerfabriken, assignee: *See*—
Gothberg, Karl E. A., and Sandahl.
Palmgren, Nils A.

Aktiengesellschaft Fuer Technische Studien, assignee: *See*—
Keller, Curt.

Albert, Calvin, Brooklyn, N. Y. Sculpturing. 2,641,859, June 16.

Albrecht, Alexander J., West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet registering mechanism. 2,642,283, June 16.

Albright, Robert B., assignor to Philco Corporation, Philadelphia, Pa. Antenna for television receivers. 2,642,528, June 16.

Alderson, Dwight A., East Alton, R. V. Wakefield, Roxana, and E. P. Reichardt, Wood River, assignors to Olin Industries, Inc., East Alton, Ill. Reclaiming single base smokeless powder. 2,642,350, June 16.

Alexander, Carl Z., Chatham, N. J. Stand boiler with vertical flue, circulating coil, and indirectly heated domestic supply. 2,642,040, June 16.

Allbright-Nell Company, The, assignee: *See*—
Allbright, Norman J., and Illsley.

Allbright, Norman J., and R. W. Illsley, assignors to The Allbright-Nell Company, Chicago, Ill. Automatic apparatus for injecting curing liquid into hog bellies and the like. 2,641,990, June 16.

Alliano, Joseph H., Santa Ana, Calif. Driving tool for eye-screws. 2,642,105, June 16.

Alric, Gustave C. A., Troyes, assignor to "Etablissements Doron," Troyes (Aube), France. Yarn feeding method and apparatus for knitting machines. 2,641,913, June 16.

Altman, Samuel P., Dayton, Ohio. Servo loading stand. 2,641,925, June 16.

Aluminum Company of America, assignee: *See*—
Newsome, James W.

American Brake Shoe Company, assignee: *See*—
Avery, Howard S.
Dairymple, William P.
Olson, Walter J.
Whisler, Thomas C.

American Cyanamid Company, assignee: *See*—
Herkenhoff, Earl C.
Lecher, Hans Z., and Whitehouse.

American Hoist & Derrick Co., assignee: *See*—
Gaslnk, Lewis T.

American Laundry Machinery Company, The, assignee: *See*—
Johnson, George W.

American Steel Foundries, assignee: *See*—
Tack, Carl E., Bachman, and Kayler.

American Viscose Corporation, assignee: *See*—
McDermott, Henry J.

Anderson, David E., R. A. Kolonick, and W. Raymor, assignors to Thompson Products, Inc., Cleveland, Ohio. Supplemental fuel feed device. 2,642,082, June 16.

Anderson, Eric W., Chicago, Ill. Sausage linking machine. 2,641,798, June 16.

Anderson, John T., Portland, Oreg. Synchronizer. 2,642,234, June 16.

Anderson, Olof G.: *See*—
Cletus, Carl A., and Anderson.

Anderson, Ralph F., assignee: *See*—
Anderson, Swan F.

Anderson, Swan F., assignor of one-half to R. F. Anderson, Rockford, Ill. Balancing device. 2,641,877, June 16.

Anderson, Tore N.: *See*—
Coolidge, Roger S., Keely, Smith, and Anderson.

Anderson, Walter A., Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y. Register selecting mechanism for accounting machines. 2,642,222, June 16.

Andersson, Bengt R., and K. E. V. Qvarfordt, Gothenburg, Sweden. Pot type oil burner. 2,642,130, June 16.

Andresen, John H., Jr., Port Washington, assignor to Kollsman Instrument Corporation, Elmhurst, N. Y. Magnetic drag tachometer. 2,642,274, June 16.

Andrews, Marianne, assignee: *See*—
Cipolla, Joseph S.

Aries, Robert S., and A. Pollak, New York, N. Y. Dissolving ash containing sodium sulfide and sodium carbonate. 2,642,399, June 16.

Armentrout, Arthur L., Long Beach, Calif. Recovering lost circulation in drilling wells. 2,642,268, June 16.

Armour, Charles H., assignee: *See*—
Armour, Sarah T.

Armour, Sarah T., assignor of fifty per cent to C. H. Armour, Bono, Ark. Knockdown cabinet. 2,642,330, June 16.

Armstrong, Clifford H., assignor to Copes Regulators Limited, London, England. Valve. 2,642,254, June 16.

Armstrong Cork Company, assignee: *See*—
Scott, Wylmer L.

Arnold, Herrick R., Wilmington, and J. E. Carnahan, New Castle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal tungstite catalyzed hydrogenation process. 2,642,463, June 16.

Arrow-Hart & Hegeman Electric Company, The, assignee: *See*—
Dietrich, Walter L.
Johnson, David W.

Arthur, Robert A., assignor to The Garrett Corporation, Los Angeles, Calif. Auxiliary pressure relief, vacuum relief, and dump valve. 2,641,986, June 16.

Ashley, John W., and J. F. Leahy, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel drilling machine. 2,642,103, June 16.

Atlantic Refining Company, The, assignee: *See*—
Woods, John P.

Atlas Powder Company, assignee: *See*—
Kasehagen, Leo.

Avery, Howard S., Mahwah, N. J., assignor to American Brake Shoe Company, New York, N. Y. Binder for filler materials in tubular welding rods. 2,642,516, June 16.

Babcock & Wilcox Company, The, assignee: *See*—
Rivers, Heyward.

Bachman, Fred E.: *See*—
Tack, Carl E., Bachman, and Kayler.

Backer, Philip C., Middlesex, and H. E. Van Hoesen, South Branch, N. J., assignors to Research Corporation, New York, N. Y. System for energizing electrical precipitators and the like. 2,642,149, June 16.

Barkhouse, Headley T., Sunningdale, England. Mechanism for feeding sheets to rotary drum machines. 2,642,282, June 16.

Backhouse, Headley T., Sunningdale, England. Sheet registering apparatus. 2,642,284, June 16.

Bagg, Earle W., Sans Souci, Mich. Remote control for arc welding. 2,642,515, June 16.

Baird, Robert W., Inverness, Miss. Cotton stripper. 2,641,890, June 16.

Baker & Company Incorporated, assignee: *See*—
Dowson, Arthur G.

Baker, Thomas R., Sunnyvale, and E. J. Pagendarm, San Mateo, assignors to Bemis-Jason Machine Co., San Francisco, Calif. Blank magazine for folding box machines. 2,642,285, June 16.

Baker, William R., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Radio-frequency oscillator. 2,642,531, June 16.

Baldwin Company, The, assignee: *See*—
Knohlaugh, Armand F.

Baldwin Rubber Company, assignee: *See*—
McDonald, Angus, and Strobel.

Balluff, Carl E.: *See*—
Pedley, Howard L. and H. C., and Balluff.

Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Pedally controlled power-operated vehicle brake applying apparatus. 2,642,165, June 16.

Bardons and Oliver, Inc., assignee: *See*—
Kylin, Henrik O.

Barnes, James I., Mickleton, and A. O. Pukkila, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Separation of wax from residual lubricating oil. 2,642,378, June 16.

Barr, John M., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Diaphragm assembly and making same. 2,642,090, June 16.

Barrett, Claudius S., Palos Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Average computer. 2,642,223, June 16.

Barrons, Keith C., assignor to The Dow Chemical Company, Midland, Mich. Method and composition for the control of undesired vegetation. 2,642,354, June 16.

Barry-Wehmiller Machinery Company, assignee: *See*—
Wehmiller, Frederick W., and Nekola.

Batchelor, Clyde S., Upper Stepney, and H. J. Cofek, Bridgeport, Conn., assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Heat hardening of friction materials. 2,641,801, June 16.

Bates, Jackson W., Ovid, Mich. Dual light source for cameras. 2,642,518, June 16.

Bath, Cyril, Company, The, assignee: *See*—
Bath, Cyril J., and Ebert.

Bath, Cyril J., Chagrin Falls, and R. J. Ebert, Euclid, assignors to The Cyril Bath Company, Cleveland, Ohio. Metal forming press. 2,642,114, June 16.

Baucom, Carson D., Raleigh, N. C. Self-aid high-pressure metering system. 2,641,907, June 16.

Bauer, La Verne N., Philadelphia, H. T. Neher, Bristol, and W. L. Van Horne, assignors to Rohm & Haas Company, Philadelphia, Pa. Copolymers of maleic esters and long chain alkyl methacrylates. 2,642,414, June 16.

Bayliss, Alan J., Wembley, assignor to The General Electric Company Limited, London, England. Radio communication system. 2,642,524, June 16.

Baynes, William C., Washington, D. C. Greeting card and envelope assembly. 2,642,182, June 16.

Beach, Theodore L., Jr., New Carlisle, Ohio. Rear-vision mirror. 2,642,244, June 16.

Beatty, William R., Highlands, N. J., and O. A. Short, Staten Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Mat finish enamels for aluminum. 2,642,364, June 16.

Beck, Charles E., Park Ridge, assignor to Motorola, Inc., Chicago, Ill. Universal head mounting having a resilient positioning pad. 2,642,475, June 16.

Beck, Gasper P.: *See*—
Fisher, Harland S., and Beck.

Becton Dickinson and Company, assignee: *See*—
Lawshe, Errol R.
May, Edwin A.

Bedell, Karl L.: *See*—
Hollingsworth, John H., and Bedell.

Bedford, Alexander W., Jr., and E. F. Goetz, Schenectady, N. Y., assignors to General Electric Company. Two-shoe industrial type brake. 2,642,160, June 16.

Bedford, Charles F., Houston, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Apparatus for treating wells. 2,642,139, June 16.

Beeler, William R., Tampa, Fla. Scrap paper spear. 2,642,306, June 16.

Beidler, Edward A., Columbus, assignor, by mesne assignments, to Crowley-Republic Steel Corporation, Cleveland, Ohio. Low-temperature reduction of nickel chloride. 2,642,356, June 16.

Beidler, Edward A., Columbus, assignor, by mesne assignments, to Crowley-Republic Steel Corporation, Cleveland, Ohio. Low-temperature reduction of cobalt chloride. 2,642,357, June 16.

Bell, Albert E.: *See*—
Layte, Ralph R., and Bell.

Bell, Albert E., Union, assignor to Purolator Products, Inc., Newark, N. J. Filter unit construction. 2,642,187, June 16.

Bell & Gossett Company, assignee: *See*—
Moore, Robert E.

Bell, Joseph D., deceased, San Francisco, Calif.; P. B. Bell, administratrix. Exercise machine. 2,642,288, June 16.

Bell, Pearl B., administratrix: *See*—
Bell, Joseph D.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Duhrendorf, Frederick G.
Fritschi, Walter W., Soffel, and Weaver.
Kreer, John G., Jr.
Locke, George A., and Weaver.
Riddell, George, and Soucy.
Winslow, Field H.

Beltz, Rober C.: *See*—
Glaze, Herbert L., and Beltz.

Bemiss-Jason Machine Co., assignee: *See*—
Baker, Thomas R., and Pagendarm.

Bendix Aviation Corporation, assignee: *See*—
Deardorff, Clinton E.
House, Bryan E.
Kimball, Vernon R., and Drenkard.
MacCallum, Alan M.
Price, Earl R.
Russell, James L.
Teague, Walter D., Jr., and Volk.
Waterman, Herbert C.

Beresin, Morris, Philadelphia, Pa. Dental articulator. 2,641,838, June 16.

Berger, Charles V., Western Springs, and V. Haensel, Hinsdale, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic reforming of hydrocarbons. 2,642,383, June 16.

Berger, Charles V., Western Springs, and V. Haensel, Hinsdale, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic reforming of hydrocarbons. 2,642,385, June 16.

Berger, Jack, Laurelton, assignor to Diesel Oil Burner Corp. of N. Y., Jamaica, N. Y. Water heater. 2,642,271, June 16.

Bergh, Charles J., Vandalia, assignor to The Dayton Pump & Mfg. Co., Dayton, Ohio. Centrifugal pump. 2,642,004, June 16.

Bergstrom, Carl P., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter. 2,642,095, June 16.

Berindel, Matthew, Cheam, and W. Tennet, Wallington, England, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement for X-ray tubes. 2,642,540, June 16.

Berry, Henry S.: *See*—
Fitzgerald, Harold J., and Berry.

Beyer, Walter O., Pittsburgh, Pa. Mobile pipe line. 2,642,311, June 16.

Biegert, George, Elmhurst, N. Y., assignor to Mergenthaler Linotype Company. Spaceband and manufacturing same. 2,642,181, June 16.

Binckley, Sydney W., Hollywood, Calif. Gas gravitometer. 2,641,923, June 16.

Bindszus, William, Rutherford, N. J. Razor blade backing machine. 2,642,111, June 16.

Black, James B., and W. F. Shurts, Rockford, Ill., assignors to Twin Disc Clutch Company, Racine, Wis. Power transmission. 2,642,168, June 16.

Black, Robert B., Corpus Christi, Tex. Dental handpiece. 2,641,839, June 16.

Blakely, Robert E.: *See*—
Bryce, James W., and Blakely.

Bloch, Alfred: *See*—
Henderson, John, Bloch, and Davis.

Bobrowski, Stanley F., New Britain, and S. L. Bobrowski, Bristol, Conn. Linoleum cutter. 2,641,834, June 16.

Bobrowski, Stanley L.: *See*—
Bobrowski, Stanley F. and S. L.

Bode, Robert G., Chicago, assignor to The Norwood Company, Morton Grove, Ill. Collapsible stand. 2,642,247, June 16.

Boehm, Charles H., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Uniform dressing of contact rolls. 2,641,872, June 16.

Boeing Airplane Company, assignee: *See*—
Wright, Gilbert F.

Bohn, August J., Atlanta, Ga. Water removing device for vehicle ventilating windows. 2,642,308, June 16.

Bolle, Léon, assignor of one-half to La Nationale S. A., Geneva, Switzerland. Lighter. 2,641,915, June 16.

Boltauzer, Matthew P., Willoughby, Ohio. Foldable necktie rack. 2,642,194, June 16.

Bond, George R., Jr., Paulsboro, N. J., assignor to Houdry Process Corporation, Wilmington, Del. Refining hydrocarbon oils. 2,642,382, June 16.

Borkowski, Leon P., and R. C. Lampe, Stamford, Conn., assignors to Electrolux Corporation, New York, N. Y. Vacuum cleaner with bag ejector. 2,642,151, June 16.

Borns, Millard C., Muskegon, Mich. Foldable table and bench combination. 2,642,123, June 16.

Boston Machine Works Company, assignee: *See*—
Osgood, Walter P.

Boudreau, Charles, Branby, Quebec, Canada. Belt fastener. 2,641,812, June 16.

Bouffart, Maurice, Brussels, Belgium. Apparatus for cooling combustion chambers of movable power plants with an oxidizing agent. 2,641,904, June 16.

Bowan, Walter J.: *See*—
Mueller, Frank H., and Bowan.

Bowar, Earl C., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electrical connector. 2,642,474, June 16.

Boyer, Charles J., West Reading, assignor to Willson Products, Inc., Reading, Pa. Air line respirator filter cartridge holder. 2,642,061, June 16.

Brach, E. J., & Sons, assignee: *See*—
Zimmer, Clyde R.

Bradley, Harris W., and H. K. Livingston, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkali metal dispersions and their use as diesel fuel additives. 2,642,345, June 16.

Bradley, John M., Pampa, Tex., assignor to Standard Oil Development Company. Liquid-liquid extraction tower. 2,642,341, June 16.

Braendel, Felix W., Teaneck, N. J., assignor to Groov-Pin Corporation. Driver tool for self-tapping inserts. 2,641,948, June 16.

Breco Manufacturing Company, assignee: *See*—
Hanna, Glenn E.

Breese Burners, Inc., assignee: *See*—
Breese, James L.

Breese, James L., assignor to Breese Burners, Inc., Santa Fe, N. Mex. Burner for immersion heaters. 2,642,129, June 16.

Bretthauer, Hermann, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany. Focusing hood for photographic cameras. 2,641,955, June 16.

Breul, Fredric W., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimming mechanism for sewing machines. 2,642,020, June 16.

Brewer, William L., Jr., Port Townsend, Wash. Tractor with six driven wheels. 2,642,144, June 16.

Bright, Harold T., Elmhurst, assignor to King Pneumatic Tool Company, Chicago, Ill. Control means for power lawn mowers. 2,641,889, June 16.

Briner, William M.: *See*—
Olfutt, George, and Briner.

Brink, Edwin H., assignor to Masonite Corporation, Laurel, Miss. Roller coating machine for rigid sheet material. 2,642,030, June 16.

Brodheim, Morris, Philadelphia, Pa. Adjustable hose clamp. 2,641,817, June 16.

Brody, Samuel M., New York, N. Y. Window awning. 2,642,133, June 16.

Brooksbank, Jack: *See*—
West, Joseph, and Brooksbank.

Brown, Charles H., Washington, D. C., E. F. Cox, Albuquerque, N. Mex., R. MacHenry, Prospect Park, Pa., and E. Finkle, Washington, D. C. Apparatus for recovering practice torpedoes. 2,641,780, June 16.

Brown, Cicero C., Houston, Tex. Valve. 2,642,140, June 16.

Brown, Earl W., Miami, Fla. Automatic clutch. 2,642,167, June 16.

Brown, Fordyce M.: *See*—
Morrison, Charles A., and Brown.

Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Inhaler. 2,642,063, June 16.

Brown Oil Tools, Inc., assignee: *See*—
Potts, Ernest L.

Brown, William E., Santa Ana, Calif. Cutterhead guard for vertical spindle shapers. 2,642,104, June 16.

Bruins, Paul F., Douglaston, N. Y., E. P. Wilkinson, Dallas, Tex., and E. P. Rittershausen, Hempstead, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Esterified aromatic hydrocarbon plasticizers and compositions containing same. 2,642,407, June 16.

Bruins, Paul F., Douglaston, N. Y., E. P. Wilkinson, Dallas, Tex., and E. P. Rittershausen, Hempstead, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. 1 2-ethyl-hexanol-1 esters of the Friedel-Crafts maleic anhydride-aromatic hydrocarbon adducts and process. 2,642,455, June 16.

Brunk, Harold J., assignor to The C. F. Pease Company, Chicago, Ill. Cylindrical photoprinting machine. 2,641,980, June 16.

Bryant, Donald D., Huntington, W. Va. Journal box lid. 2,642,320, June 16.

Bryce, Elixabeth S., executrix: *See*—
Bryce, James W., and Blakely.

Bryce, James W., deceased (by E. S. Bryce, Glen Ridge, and The National Newark and Essex Banking Company of Newark, Newark, N. J., executors), and R. T. Blakely, Amityville, assignors to International Business Machines Corporation, New York, N. Y. Photographic color recording machine. 2,641,976, June 16.

Buccicone, Dario, Gary, Ind. Magnetic rail conveyer. 2,642,174, June 16.

Buckeye Iron & Brass Works, assignee: *See*—
Conklin, Robert M., and Herring.

Buckeye Steel Castings Company, The, assignee: *See*—
Settles, James C., and Furniss.

Burklus, Albert O., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Journal box lid. 2,642,319, June 16.

Buell, Halsey W.: *See*—
Foss, Carl W., and Buell.

Buffalo Forge Company, assignee: *See*—
Heath, William R.

Bügel, Roelof D., G. H. Jonker, and J. H. van Santen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Combination of at least two condensers electrically connected in parallel. 2,642,476, June 16.

Buhler, Gebruder, assignee: *See*—
Thalmann, Emil.

Buhrendorf, Frederick G., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for the winding of endless bands. 2,642,281, June 16.

Bukolt, Victor J., Stevens Point, Wis. Drop side crib. 2,641,775, June 16.

Bump Pumn Co., The, assignee: *See*—
Dale, Vernon F., and Reed.

Burgan, Joseph N., Ambridge, Pa. Ventilator. 2,641,087, June 16.

Burke, George F. C.: *See*—
Leahy, James F., and Burke.

Burnett, Rudolph S., Memphis, Tenn. Veneer cutting machine. 2,642,136, June 16.

Burr, Ned, assignor to Chicago Cardboard Company, Chicago, Ill. Display frame. 2,641,858, June 16.

Bussiere, George, Los Angeles, Q. C. Johnson, Torrance, and J. E. Straub, Manhattan Beach, Calif., assignors to North American Aviation, Inc. Gun blast door. 2,641,967, June 16.

Butler, George S., Sunbury, Ohio. Garden weeder. 2,642,305, June 16.

Butler, John M., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Acylated polystyrene. 2,642,398, June 16.

Butterfield, Louis B., Plainfield, and J. H. Sulzer, Union Beach, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Control circuit for continuously operating electrophotographic printers. 2,641,997, June 16.

California Research Corporation, assignee: *See*—
Laurey, Henry E.

Campbell, Archie D., Whiting, Ind. Ice-cream cone dipping apparatus. 2,642,029, June 16.

Capehart, Ashbourne D., Oxford, and E. A. Hines, Henderson, N. C. Clock control time period signal device. 2,642,490, June 16.

Capital Industrial Fabricators, Inc., assignee: *See*—
Regnier, Gerard M.

Carbee, Sheldon, Melrose, Mass. Folding crib. 2,641,774, June 16.

Carborundum Company, The, assignee: *See*—
Foss, Carl W., and Buell.

Carlson, Reuben C., River Grove, assignor to Admiral Corporation, Chicago, Ill. Tuner indicator and control. 2,642,026, June 16.

Carnahan, James E.: *See*—
Arnold, Herrick R., and Carnahan.

Carothers, Campbell M.: *See*—
Pitts, William A., and Carothers.

Carpenter Container Corporation, assignee: *See*—
Carpenter, Herbert L.

Carpenter, Herbert L., Amityville, assignor to Carpenter Container Corporation, Brooklyn, N. Y. Making fiber drums having metal closures. 2,641,827, June 16.

Carroll, Kenneth G., Cranford, and D. S. Miller, Westfield, N. J., assignors to United States Steel Corporation. Apparatus for determining coating thickness. 2,642,537, June 16.

Carter, Clarence F., Danville, Ill. Oscillating valve mechanism. 2,642,215, June 16.

Carter, Clarence F., Danville, Ill. Filling head for vacuum powder filling machines. 2,642,216, June 16.

Carter, Stanley R., Chicago, Ill. Method and apparatus for increasing contrast of transparencies. 2,641,963, June 16.

Caterpillar Tractor Co., assignee: *See*—
Wagner, Harold H., and Williams.

Catlin, Arthur W., assignor to Manitowoc Shipbuilding Company, Manitowoc, Wis. Valve. 2,642,259, June 16.

Cattey, Ernest L., assignee: *See*—
Murphy, Stephen J.

Caustin, William, San Jose, and C. J. Gustafson, Los Gatos, Calif.; said C. J. Gustafson assignor by decree of distribution to G. Rye. Luminiferous cane. 2,642,319, June 16.

Celanese Corporation of America, assignee: *See*—
Prossen, Louis F.

Cessna Aircraft Company, assignee: *See*—
Grabendike, William F.

Champlin, Philip T., Little Valley, N. Y. Cheese and butter knife. 2,641,832, June 16.

Chapin, Gerald K., Catonsville, Md. Shower bath for invalids. 2,641,770, June 16.

Charet, Murray J.: *See*—
Cooper, Benjamin, and Charet.

Chase Foundry & Manufacturing Company, The, assignee: *See*—
Mahoney, Thomas R.

Chemische Werke Huls Gesellschaft mit beschränkter Haftung, assignee: *See*—
Wenning, Heinrich.

Cheney, Harry A., A. W. Fairbairn, and O. L. Davis, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of methallyl halides. 2,642,464, June 16.

Cherry-Burrell Corporation, assignee: *See*—
Lippold, Adolph J.

Chesser, Cecil E., Hebron, assignor to Newark Stove Company, Newark, Ohio. Oil range and tank. 2,642,060, June 16.

Chevalier, Pierre J., Lyon, assignor to Societe Des Usines Chimiques Rhone-Poulenc, Paris, France. Preparing polymethyl siloxanes and product. 2,642,411, June 16.

Chicago Cardboard Company, assignee: *See*—
Burr, Ned.

Chicago Pump Company, assignee: *See*—
Lamb, Miles A., Klein, Stranberg, and Frankowski.

Chicago Railway Equipment Company, assignee: *See*—
Ekhaim, Herbert W.

Chittick, Charles Y., Waban, Mass. Flexible corrugated sheet material and fabricating same. 2,642,372, June 16.

Chodroff, Saul : *See*—
Kapp, Roland, Chodroff, and Sofield.

Christensen, Niels A., South Euclid, Ohio. Valve mechanism. 2,642,087, June 16.

Christensen, Paul M. : *See*—
Cole, Thomas M., and Christensen.

Christiansen, James B., Highland Park, Mich., assignor to General Mills, Inc. Feed calculator. 2,642,224, June 16.

Christiansen, William S., and A. C. Rissberger, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Photographic printing frame. 2,641,979, June 16.

Christie, Cleve F., assignor of twenty-five per cent to D. A. Harrison, Knoxville, Tenn. Air control valve for carburetor gaskets. 2,642,089, June 16.

Cincinnati Milling Machine Co., The, assignee : *See*—
Decker, Jacob, and Kearns.
Haas, Frederick S.
Kirby, Roy G.
Kirby, Roy G., Morgan, and Decker.
Plimmer, Alfred G.
Roehm, Erwin G.

Cipolla, Joseph S., Brooklyn, assignor to F. J. Hale, New York, N. Y., as trustee for F. J. Hale, J. Garvey, M. Andrews, and J. S. Cipolla. Apparatus for permanently waving hair on the human head. 2,642,071, June 16.

Cipolla, Joseph S., Brooklyn, assignor to F. J. Hale, New York, N. Y., as trustee for F. J. Hale, J. Garvey, M. Andrews, and J. S. Cipolla. Apparatus for permanently waving hair on the human head. 2,642,072, June 16.

Clark, George R., and L. F. Miller, assignors to Eastman Kodak Company, Rochester, N. Y. Light-sensitive baryta-coated photographic paper. 2,642,362, June 16.

Clark, Joseph B., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Hydraulic completion of wells. 2,642,142, June 16.

Clarke-Built Limited, assignee : *See*—
Goldsmith, Thomas L.

Clarostat Mfg. Co., Inc., assignee : *See*—
Mucher, George J.

Clausing, Henry O., assignor to Vulcan Corporation, Portsmouth, Ohio. Shoe last. 2,641,783, June 16.

Clearing Machine Corporation, assignee : *See*—
Zimmerman, Louis.

Clemens, Edwin S., New Orleans, La. Means for brewing beverages and the like. 2,641,992, June 16.

Cletus, Carl A., and O. G. Anderson, San Diego, Calif. Concrete floor compactor. 2,641,975, June 16.

Cleveland Pneumatic Tool Company, The, assignee : *See*—
Lindow, Arthur L.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Tertiary-aminoalkyl 4-substituted-2-(tertiary-aminoalkoxy) benzoates and their synthesis. 2,642,429, June 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Lower alkyl 4-substituted-2-(tertiary-aminoalkoxy) benzoates and their preparation. 2,642,432, June 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Quaternary ammonium salts of lower alkyl 4-substituted-2-(tertiary-aminoalkoxy) benzoates and their preparation. 2,642,434, June 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Quaternary ammonium salts of tertiary-aminoalkyl 4-substituted-2-(tertiary-aminoalkoxy) benzoates and their preparation. 2,642,435, June 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. 4-substituted-2-(tertiary-aminoalkoxy)-benzonitriles and their preparation. 2,642,436, June 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Quaternary ammonium salts of 4-substituted-2-(tertiary-aminoalkoxy) benzonitriles and their preparation. 2,642,437, June 16.

Clyde Iron Works, Inc., assignee : *See*—
Fox, Robert P.

Cochran, George B., Sutherland, Nebr. Adjustable automobile seat. 2,642,120, June 16.

Cofek, Henry, J. : *See*—
Batchelor, Clyde S., and Cofek.

Coffey, Edward J., and P. E. Fischer, Minneapolis, Minn., assignors to General Mills, Inc. Fruit juice extraction mechanism. 2,642,106, June 16.

Cohen, Charles A., Roselle Park, and F. Knuth, Jr., Sayreville, N. J., assignors to Standard Oil Development Company. Treating method for high-boiling esters. 2,642,389, June 16.

Cohen, Oscar P., Watertown, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Treating keratinous yarns and compositions therefor. 2,642,332, June 16.

Cole, Thomas M., New York, N. Y., and P. M. Christensen, West Orange, assignors to Federal Electric Products Company, Newark, N. J. Automatic circuit breaker with calibration provision. 2,642,509, June 16.

Coles, Robert F., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Producing 7-bromo-5-chloroisatin and the corresponding sodium salt of isatic acid. 2,642,439, June 16.

Collura, Francesco : *See*—
Hart, Marion R., and Collura.

Compagnie du Celluloid Petitcollin-Oyonnithe, assignee : *See*—
Villemejane, Jacques.

Condon, Donald F., Houston, Tex. Rubber based metallic skate guard. 2,642,291, June 16.

Conklin, Robert M., Columbus, and H. W. Herring, Linworth, assignors, by mesne assignments, to Buckeye Iron & Brass Works, Dayton, Ohio. Loading valve and method of controlling fluid flow. 2,642,086, June 16.

Connors, George H., assignor to Highway Trailer Company, Edgerton, Wis. Automatic inflating device. 2,642,110, June 16.

Cook, Philip E., South Bend, Ind. Baby crib convertible into a pinypen. 2,641,772, June 16.

Coolidge, Roger S., Center Sandwich, N. H., H. W. Keely, New York, N. Y., R. S. Smith, Norwalk, Conn., and T. N. Anderson, Huntington Station, N. Y. Portable rechargeable flashlight. 2,642,520, June 16.

Cooper, Benjamin, New York, N. Y. Interlock system. 2,641,919, June 16.

Cooper, Benjamin, New York, and M. J. Charet, Brooklyn, N. Y., said Charet assignor to said Cooper. Roof drainage system for toll booth canopies. 2,642,017, June 16.

Cooper, Charles L., Los Angeles, Calif. Drive system for roller coasters. 2,642,005, June 16.

Coover, Harry W. : *See*—
Stanin, Theodore E., Dickey, and Coover.

Coover, Harry W., Jr. : *See*—
Dickey, Joseph B., Stanin, and Coover.

Coover, Harry W., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Polymers of phosphonic acid diamides with ureas. 2,642,413, June 16.

Copes Regulators Limited, assignee : *See*—
Armstrong, Clifford H.

Cordier, David E., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Production of moldable compositions comprising an unsaturated alkyd and kaolin coated with a heterocyclic amine-formaldehyde resin. 2,642,409, June 16.

Corner, Eugene S., Maplewood, and C. S. Lynch, Plainfield, N. J., assignors to Standard Oil Development Company. Olefin polymerization catalyst and its preparation. 2,642,402, June 16.

Cotsworth, Albert, III, Oak Park, Ill., assignor to Zenith Radio Corporation. Television receiver. 2,642,491, June 16.

Cottle, Delmer L. : *See*—
Morway, Arnold J., Young, and Cottle.

Coult, Russell A., Sutherlin, Oreg. Vacuum hair removal system for barber shops. 2,641,790, June 16.

Cowan, Clifton J., Providence, R. I., assignor to Paul Flato Sales Corporation, New York, N. Y. Compact and similar article. 2,642,202, June 16.

Cox, Everett F. : *See*—
Brown, Charles B., Cox, MacHenry, and Finkle.

Cox, Jerome R., trustee, assignee : *See*—
Filak, Andrew M.

Cox, Maurice W., Berwyn, assignor to Universal Oil Products Company, Chicago, Ill. Reforming of hydrocarbons boiling within the gasoline range utilizing a platinum-alumina-halide catalyst. 2,642,384, June 16.

Cox, William J., Woodruff, Utah. Tire tool. 2,642,265, June 16.

Crompton & Knowles Loom Works, assignee : *See*—
Bergstrom, Carl P.
Darwin, Clifford.
Holmes, Elbridge R.

Crosland, Edward M., Culcheth, near Warrington, and J. F. Naylor, assignors to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Sheeting machine for dough. 2,642,014, June 16.

Cross, Ralph E., Grosse Pointe, Mich. Transfer apparatus. 2,642,179, June 16.

Crossley, Charles C., Point Edward, Ontario, Canada. Float-equipped aircraft. 2,642,239, June 16.

Crowley-Republic Steel Corporation, assignee : *See*—
Beidler, Edward A.

Crown Cork & Seal Company, Inc., assignee : *See*—
Erhardt, John E., Jr., and Duffy.

Crown Zellerbach Corporation, assignee : *See*—
Dupasquier, Joseph H.

Crum, Dennis R., Escalon, Calif. Ridger. 2,641,983, June 16.

Crutchley, Douglas, assignee : *See*—
Teall, Oliver E.

Currie, Chester C., assignor to Dow Corning Corporation, Midland, Mich. Siloxane boundry lubricants. 2,642,395, June 16.

Currivan, John F., Dayton, Ohio, assignor, by mesne assignments, to Embart Manufacturing Company. Tilting bucket bottle loader. 2,642,212, June 16.

Curtis Automotive Devices, Inc., assignee : *See*—
Gates, Richard L.

Curtiss-Wright Corporation, assignee : *See*—
Kerr, John A.
Sollinger, Ferdinand P.
Westcott, William B., Jr.
Wishart, Herbert W.

Cushing, Ivan E., and G. M. Slaughter, assignors to Acme Brick Company, Fort Worth, Tex. Hearth furnace. 2,642,019, June 16.

Dale, Vernon F., and G. W. Reed, Onalaska, assignors to The Bump Pump Co., La Crosse, Wis. Pump by-passing assemblage. 2,642,001, June 16.

Dalrymple, Philip W., Wellesley Farms, Mass., assignor to The International Glass Company, Inc., New York, N. Y. Mounting method. 2,641,879, June 16.

Dalrymple, William P., Rochester, N. Y., assignor to American Brake Shoe Company, Wilmington, Del. Engine starter mechanism. 2,642,055, June 16.

Damschroder, Rudolph E., and H. C. Yutzy, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic silver halide emulsions sensitized with water-insoluble gold compounds. 2,642,361, June 16.

Daniel, Thomas M., Birmingham, Ala. Metal panel fence. 2,642,269, June 16.

Dapos, Max, assignor of one-fifth to H. Thiebaud, and one-fifth to J. F. Sani, New Philadelphia, Ohio. Traffic light. 2,642,563, June 16.

Darrah, Thomas E. : *See*—
Gill, Walter H., and Darrah.

Darwin, Clifford, Paxton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 2,642,094, June 16.

Dary, Dorothee C., Sunnyvale, Calif. Set of nested chairs. 2,642,119, June 16.

Dautrebande, Lucien, Brussels, Belgium, assignor to Aerosol Corporation of America, New York, N. Y. Apparatus for obtaining aerosols of superior quality. 2,642,150, June 16.

Davis, Henry R., Jr., assignee : *See* —
Straw, Clayton.

Davis, Herbert L. : *See*—
Henderson, John, Bloch, and Davis.

Davis, Herman : *See*—
Grimson, Herman, and Davis.

Davis, Orrls L. : *See*—
Cheney, Harry A., Fairbairn, and Davis.

Davis, Rooney W., Webster Groves, assignor of one-half to H. C. Weeman, St. Louis, Mo. Method of and an apparatus for steaming, forming, finishing, and restoring garment pockets. 2,642,209, June 16.

Dayton Pump & Mfg. Co., The, assignee : *See*—
Bergh, Charles J.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. 2-hydroxyethyl 2-phenylethyl sulfide as a fungicide. 2,642,373, June 16.

Dearborn Motors Corporation, assignee : *See*—
Richey, Clarence B.
Sawyer, Frederick D.

Deardorff, Clinton E., San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Self-locking adjustable rod collar. 2,642,299, June 16.

Dearing, Edmund R., Homewood, Ala., assignor to United States Steel Corporation. Baffle type silencer with a buffer chamber. 2,642,147, June 16.

De Burgh, Albert R., Redondo Beach, Calif. Conveyer system. 2,642,176, June 16.

Decker, Jacob : *See*—
Kirby, Roy G., Morgan, and Decker.

Decker, Jacob, and B. A. Kearns, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Precision grinding machine. 2,641,876, June 16.

Deering Milliken Research Trust, assignee : *See*—
Klein, Norman E.
Strother, Fred P.

De Gier, Johannes, and J. Peper, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Forming a smooth surface on a substratum. 2,642,365, June 16.

Dennis, Franklin L., Clayton, W. H. King, and H. C. Myers, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Separation of wax and asphalt from hydrocarbon oil. 2,642,379, June 16.

Depew, Daniel : *See*—
Parsons, George B., and Depew.

Dewar, James R., Rochester, N. Y. Telephone pay station coin box system. 2,642,496, June 16.

Dial, James M., Orlando, Fla. Subcaliber attachment for barrels of guns. 2,641,860, June 16.

Diamond Expansion Bolt Company, Inc., assignee : *See*—
Karlitsky, John.

Dickey, Joseph B. : *See*—
Stanin, Theodore E., Dickey, and Coover.

Dickey, Joseph B., T. E. Stanin, and H. W. Coover, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Solutions of polymers of acrylonitrile. 2,642,406, June 16.

Dickinson, Norman L., Basking Ridge, assignor to The M. W. Kellogg Company, Jersey City, N. J. Heat transfer between exothermic and endothermic reactions. 2,642,381, June 16.

Diebold, Incorporated, assignee : *See* —
Talmage, John H., and Finley.

Diesel Oil Burner Corp. of N. Y., assignee : *See*—
Berger, Jack.

Dietrich, Walter L., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Adjustable multiple circuit control switch. 2,642,503, June 16.

Ditta A. Gazzoni & Co., assignee : *See*—
Negri, Mario.

Dixon, Walter J., U. S. Army, Fort Lee, Va. Permanently attached closure device for containers. 2,642,204, June 16.

Doane Agricultural Service, Inc., assignee : *See*—
Perkins, Hernon G.

Dodson, Jaydee I., Chicago, Ill., assignor to United States Steel Corporation. Thermocouple mounting for use in molten steel. 2,642,468, June 16.

Dohrer, Francis J., Seattle, Wash. Centrifugal dust and cinder collector. 2,642,152, June 16.

Donald, William P., Cleveland, assignor to Wean Equipment Corporation, Euclid, Ohio. Branding sheet. 2,641,998, June 16.

Donofrio, Alfonso M., assignor, by mesne assignments, to McKay-Davis Chemical Corporation, Toledo, Ohio. Packaging equipment. 2,641,881, June 16.

Doran, Joseph, St. Louis, Mo., assignor to J. J. Doran, Barrington, Ill. Fishing device. 2,641,861, June 16.

Doran, Joseph J., assignee : *See*—
Doran, Joseph.

Dotson, Orrie E., assignor to Lisbon Machine Company, Incorporated, Lisbon, Ohio. Hoist. 2,642,266, June 16.

Dow Chemical Company, The, assignee : *See*—
Barrons, Keith C.
Sweeney, Arthur W.
Wheaton, Robert M., and Harrington.
White, Halbert C.

Dow Corning Corporation, assignee : *See*—
Currie, Chester C.

Downey, Paul M., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Hydroxy substituted aliphatic ether derivatives of nitrogen heterocycles. 2,642,430, June 16.

Downingtown Manufacturing Company, assignee : *See*—
Ellis, Enright A.

Dowson, Arthur G., London, England, assignor to Baker & Company Incorporated, Newark, N. J. Electrode for sparking plugs and their manufacture. 2,642,053, June 16.

Dowty Equipment Limited, assignee : *See*—
Knights, Richard N., and Frye.

Drenkard, Adam, Jr. : *See*—
Kimball, Vernon R., and Drenkard.

Drew, John, Kent, assignor to National Rubber Machinery Company, Akron, Ohio. Garbage grinder control mechanism. 2,642,232, June 16.

Drezner, John J., assignor to United Specialties Company, Chicago, Ill. Forming filter housings. 2,641,826, June 16.

Drohomer, Alex, Santa Ana, Calif. Clipper attachment for lawn mowers. 2,641,893, June 16.

Dube, John B., Dallas, Tex. Apparatus for producing lightweight aggregates. 2,642,273, June 16.

Duesenberg, Denny D., assignor to Perfect Circle Corporation, Hagerstown, Ind. Piston ring. 2,642,323, June 16.

Du Fault, Homer D., Easthampton, assignor to Heatbath Appliances, Inc., Indian Orchard, Springfield, Mass. Gas burner secondary air-feed ring and baffle. 2,642,131, June 16.

Duffy, Joseph S. : *See*—
Erhardt, John E., Jr., and Duffy.

Dungler, Julien, Basel, Switzerland. Apparatus for continuously treating lengthy cellulose material. 2,641,850, June 16.

Dungler, Julien, Basel Switzerland. Combination drying and squeezing device for cloth-dyeing machines. 2,641,917, June 16.

Dunnington, Edwin T., Indianapolis, Ind. Chain saw link. 2,642,102, June 16.

Dupasquier, Joseph H., Oregon City, Oreg., assignor to Crown Zellerbach Corporation, San Francisco, Calif. Dripless steam shower pipe. 2,642,314, June 16.

Du Pont, E. I., de Nemours & Company, assignee : *See*—
Arnold, Herrick R., and Carnahan.
Beatty, William R., and Short.
Bradley, Harris W., and Livingston.
Gilbert, Harvey N.
Livingston, Herbert K.
Pike, Ralph E.
Sawyer, Roscoe H.

Duro-Test Corporation, assignee : *See*—
Williams, Rollo G.

Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La Roche Inc., Nutley, N. J. α-amino-α,α-diphenylacetic acid derivatives and preparing same. 2,642,433, June 16.

Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La-Roche Inc., Nutley, N. J. Pyridindoles and manufacture. 2,642,438, June 16.

Dyer, Harry B. : *See*—
Hall, Arthur L., and Dyer.

Eames, William F., Westfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Selectively zoned elevator system. 2,642,158, June 16.

Easter, John W., Acton, London, assignor to Ozalid Company Limited, London, England. End connection for tubular lamps. 2,642,521, June 16.

Eastern Malleable Iron Company, The, assignee : *See*—
Pelcin, Albert L.

Eastman Kodak Company, assignee: *See*—
Christiansen, William S., and Rissberger.
Clark, George R., and Miller.
Coover, Harry W., Jr.
Damschroder, Rudolph E., and Yutzy.
Dickey, Joseph B., Stanin, and Coover.
Hull, David C., and Hakemeyer.
Hutchison, Miller R., Jr.
Jungjohann, Vernon H.
Kenyon, William O., Waugh, and Taylor.
Murrison, Charles A., and Brown.
Parks, William A.
Scharf, Philip T., and Keenan.
Stanin, Theodore E., Dickey, and Goover.
Urbach, Franz.
Waugh, George P., and Kenyon.
Wengel, Raymond W.

Eaton Manufacturing Company, assignee: *See*—
Russell, Robert C.

Ebert, Robert J.: *See*—
Bath, Cyril J., and Ebert.

Eck, Floyd R., Des Plaines, assignor to Admiral Corporation, Chicago, Ill. Refrigerant testing system. 2,641,929, June 16.

Eckhardt, Owen S., and I. E. Knapp, Columbia, Miss., assignors to Leach Brothers, Inc. Recovering rosin. 2,642,425, June 16.

Edds, William, assignee: *See*—
Teall, Oliver E.

Ederer, R. J., Company, assignee: *See*—
Sonnberger, Rudolph.

Edmonds, Garfield J., Philadelphia, Pa. Machine for skinning vegetables and the like. 2,642,107, June 16.

Elmco Corporation, The, assignee: *See*—
Royle, Edwin B.

Eisenbart, Henry L., Fowler, Kans. Drawbar pull gauge device. 2,641,926, June 16.

Eisler, Charles, South Orange, N. J. Continuous tube crack-off machine. 2,641,870, June 16.

Eitel-McCullough, Inc., assignee: *See*—
Preist, Donald H.

Ekholm, Herbert W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway brake beam safety connector structure. 2,642,161, June 16.

Electrolux Corporation, assignee: *See*—
Borkoski, Leon P., and Lampe.

Eliot, Theodore Q.: *See*—
Steitz, Alfred, Jr., Grekel, Eliot, and Weaver.

Elkins, John L., Long Beach, Calif. Rotatable welding ground clamp. 2,642,560, June 16.

Ellinwood, George G., assignee: *See*—
Shine, Thomas.

Ellis, Enright A., Villanova, assignor to Downingtown Manufacturing Company, Downingtown, Pa. Paper stock pulper. 2,641,971, June 16.

Emerson, William S., and R. A. Heimsch, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. N-carboxyalkyl-o-amino toluic acids and their alkyl esters. 2,642,456, June 16.

Emerson, William S., and R. A. Heimsch, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Dialkyl ar-carboxydihydrocinnamates. 2,642,457, June 16.

Emhart Manufacturing Company, assignee: *See*—
Currivan, John F.

Enamel Products Company, The, assignee: *See*—
Taylor, Ralph E.

Endter, Waldemar A., Long Beach, Calif. Keeper mechanism. 2,642,301, June 16.

Engert, George A., North Hoosick, N. Y. Cylinder mold for papermaking machines. 2,641,972, June 16.

English Electric Company Limited, The, assignee: *See*—
Page, Frederick W., and Hooker.

Enoch, Duard W., assignor to Interstate Bakeries Corporation, Kansas City, Mo. Means for continuous shaping, feeding, and sheeting of dough. 2,642,013, June 16.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine attachment for basting. 2,642,021, June 16.

Epstein, David W., Princeton, N. J., assignor to Radio Corporation of America. Schmidt television projector having meniscus to correct for antihalation lens. 2,642,488, June 16.

Erhardt, John E., Jr., and J. S. Duffy, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Adjustable torsion shaft in flying shears. 2,641,937, June 16.

Erickson, Floyd R., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing 2-sulfobenzoic acid. 2,642,458, June 16.

Eschenbrenner, Hector X., Columbus, Ohio. Apparatus for molding concrete pipe. 2,641,818, June 16.

"Etablissements Poron," assignee: *See*—
Airic, Gustave C. A.

Ethicon Suture Laboratories Incorporated, assignee: *See*—
Henderson, John, Bloch, and Davis.

Evans, Thomas C., Russell, Kans. Safety stirrup. 2,641,883, June 16.

Fabrique d'Horlogerie Chs Tissot & Fils S. A., assignee: *See*—
Galley, Fritz.

Fahrni, Fred, Zurich, Switzerland. Composite wooden board. 2,642,371, June 16.

Fairbairn, Alasdair W.: *See*—
Cheney, Harry A., Fairbairn, and Davis.

Fairchild Engine and Airplane Corporation, assignee: *See*—
Parsons, George B., and Depew.

Falk, Max, assignee: *See*—
Glauber, Henry.

Farm Fresh Milk Corporation, assignee: *See*—
Moerl, John C.

Federal Electric Products Company, assignee: *See*—
Cole, Thomas M., and Christensen.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Galley, Harris.
Wallace, Milner W.

Feed Products Company, assignee: *See*—
West, Edward S., and Van Bruggen.

Feinstein, Samuel, Brooklyn, assignor to Servomechanisms, Inc., Mineola, N. Y. Method and apparatus for comparing electric signals. 2,642,544, June 16.

Felber, Sidney, New York, N. Y. Erasing shield. 2,642,172, June 16.

Fello, Harold G.: *See*—
McCarty, Lewis C., Jr., and Fello.

Fellows Gear Shaper Company, The, assignee: *See*—
Miller, Edward W.

Ferguson, H. K., Company, The, assignee: *See*—
Hainsworth, Bruce A.

Ferguson, Harry, Inc., assignee: *See*—
Nelson, Noral A.

Fetterly, Lloyd C., Seattle, Wash., assignor to Shell Development Company, San Francisco, Calif. Dewaxing process. 2,642,377, June 16.

Feyes, Joseph F., San Francisco, Calif. Combined ignition key and emergency brake reminder mechanism. 2,642,145, June 16.

Filak, Andrew M., Lakewood, assignor to J. R. Coz, Columbus, Ohio, as trustee. Eyebrow pencil. 2,642,039, June 16.

Finkle, Earl: *See*—
Brown, Charles B., Cox, MacHenry, and Finkle.

Finley, Robert W.: *See*—
Talmage, John H., and Finley.

Finnicum, Donald E.: *See*—
Tigert, Clyde R., and Finnicum.

Fischer, Paul E.: *See*—
Coffey, Edward J., and Fischer.

Fischer, Willard H., assignor to Wee Moderns, Inc., New York, N. Y. Child's outerwear ensemble. 2,641,764, June 16.

Fisher, Harland S., Metuchen, and G. P. Beck, Highland Park, N. J., assignors to Johnson & Johnson. Bandage cutting and assembling machine. 2,642,116, June 16.

Fisher, Virgil E.: *See*—
Rice, Elmo, and Fisher.

Fisk, Gustaf L., New Fairfield, Conn. Apparatus for cold reducing metal bars. 2,642,280, June 16.

Fitzgerald, Harold J., Milwaukee, and H. S. Berry, Fox Point Village, Wis.; said Berry assignor to said Fitzgerald. Display cabinet. 2,642,329, June 16.

Fitzgerald, Robert L., New Britain, assignor of one-half to H. A. Stoddard, West Port, Conn. Control mechanism for commercial laundry machines. 2,642,080, June 16.

Flam, John, assignee: *See*—
Winger, Stover C.

Flato, Paul, Sales Corporation, assignee: *See*—
Cowan, Clifton J.

Fontein, Freerk J., assignor to Stamicarbon N. V., Heerlen, Netherlands. Refining of starch. 2,642,185, June 16.

Food Machinery and Chemical Corporation, assignee: *See*—
Vandermeer, Myrton L.

Fortin, Gerard, St.-Gedeon, Lac-St.-Jean, Quebec, Canada. Child's sleigh. 2,642,292, June 16.

Foss, Carl W., and H. W. Buell, assignors to The Carborundum Company, Niagara Falls, N. Y. Waterproof sandpaper and backing therefor. 2,642,349, June 16.

Fox, Robert P., assignor to Clyde Iron Works, Inc., Duluth, Minn. Crane propelled drive. 2,642,007, June 16.

Franch, Louis O., Milwaukee, Wis. Fuel injection apparatus. 2,642,315, June 16.

Francis, Alfred W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Separation of hydrocarbons and hydrocarbon derivatives. 2,642,421, June 16.

Frandi, Antonio E., Mexico City, Mexico. Automobile wheel mounting. 2,642,316, June 16.

Frank, Harry E., assignee: *See*—
Lasky, Wayne E., and Senff.

Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, assignee: *See*—
Bretthauer, Hermann.

Frankel, Sidney, Bergenfield, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Broadband loop antenna. 2,642,529, June 16.

Frankowski, Julius H.: *See*—
Lamb, Miles A., Klein, Stranberg, and Frankowski.

Frick, Robert P., Palisades, assignor of one-half to G. F. Smyth, Inglewood, Calif. Chair. 2,642,121, June 16.

Fritschi, Walter W., Manhasset, R. O. Soffel, Hastings-on-Hudson, and A. Weaver, Port Washington, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voice frequency signaling circuit. 2,642,500, June 16.

Frye, Colin M.: *See*—
Knights, Richard N., and Frye.

Fukami, Masaharu: *See*—
Uji, Tatsuro, Sugiura, and Fukami.

Fuller Company, assignee: *See*—
Lintz, Mark.

Fulton Company, The, assignee: *See*—
Riemann, Howard C.

Furniss, Loree E.: *See*—
Settles, James C., and Furniss.

Gabrielsen, Christian, assignor to Rowe Manufacturing Co., Inc., Whippany, N. J. Advertising display clock assembly. 2,641,856, June 16.

Gair, Robert, Company, Inc., assignee: *See*—
Vable, Raymond.

Gale, Rowland A., Yonkers, N. Y., and J. T. Haigh, assignors to Pillsbury Mills, Inc., Minneapolis, Minn. Protected enzyme preparation. 2,642,376, June 16.

Galley, Harris, Belleville, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y. Ring oscillator pulse producing circuit. 2,642,526, June 16.

Galley, Fritz, assignors to Fabrique d'Horlogerie Chs Tissot & Fils S. A., Le Locle, Switzerland. Universal timekeeper. 2,641,898, June 16.

Garland, Charles S., and F. H. Rogers, London, England. Filter. 2,642,186, June 16.

Garner, Philip J., Hooton, Wirral, and S. E. Miles, Mold, England, assignors to Shell Development Company, San Francisco, Calif. Production of olefinic hydrocarbons. 2,642,466, June 16.

Garofano, Joseph, Hartsdale, N. Y. Ornamentation of articles made of plastics. 2,642,390, June 16.

Garrett Corporation, The, assignee: *See*—
Arthur, Robert A.
Jensen, Raymond W.

Garriss, Thurman W., Burgaw, N. C. Sketching apparatus. 2,641,840, June 16.

Garvey, John, assignee: *See*—
Cipolla, Joseph S.

Gary, Wright W., Jr., Pasadena, Calif. Alkaline battery. 2,642,469, June 16.

Gasink, Lewis T., Rose Township, Ramsey County, assignor to American Hoist & Derrick Co., St. Paul, Minn. Plural cable clamp. 2,641,810, June 16.

Gates, Richard L., assignor to Curtis Automotive Devices, Inc., Dayton, Ohio. Vent valve. 2,642,261, June 16.

Gehm, Harry W., Metuchen, and L. T. Purcell, Pompton Lakes, assignors to Limestone Products Corporation of America, Newton, N. J. Neutralization of liquids. 2,642,303, June 16.

Gehring, Fred, San Francisco, Calif. Stamp applying machine. 2,642,200, June 16.

Geiger, Willard L., Tonawanda, and G. A. Wescott, Jr., Kenmore, assignors to Tronics, Inc., Buffalo, N. Y. Electric control device. 2,642,485, June 16.

Geistert, Edward C., Grand Rapids, Mich., assignor to Lear, Incorporated, Chicago, Ill. Safety locking device for nuts. 2,642,108, June 16.

Geidhof, Peter E., and L. Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation. Fluid control means. 2,642,085, June 16.

General Aniline & Film Corporation, assignee: *See*—
Cojes, Robert F.
Randall, David I., and Renfrew.
Renfrew, Edgar E., and Randall.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Bedford, Alexander W., Jr., and Goetz.
Miller, Homer H.
Powers, James H.

General Electric Company Limited, The, assignee: *See*—
Bayliss, Alan J.
Levy, Maurice M.

General Mills, Inc., assignee: *See*—
Christiansen, James B.
Coffey, Edward J., and Fischer.

General Motors Corporation, assignee: *See*—.
Sampson, Frederick W.

Geoffrion, Arthor J., Manhasset, assignor to Lapwell Watch Case Corp., Greenvale, N. Y. Watchcase. 2,641,901, June 16.

George, Ethel M., executrix: *See*—
Hanlman, Clyde A., and Hilferty.

German, Aloys T., Humphrey, Nebr. Hoisting cradle. 2,642,198, June 16.

Gersmehl, Vern R., Sr., Cheyenne, Wyo. Toy rocket. 2,642,280, June 16.

Giesler, Herbert H.: *See*—
Hinaken, Howard W., and Giesler.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grisé, Alfred L.

Gilbert, Edward: *See*—
Wilhelm, Wilbur F., Jr., and Gilbert.

Gilbert, Harvey N., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of sodium carbide and acetylene. 2,642,347, June 16.

Gill, Reva, Brooklyn, N. Y. Decorative cover for beadboards. 2,641,779, June 16.

Gill, Walter H., and T. E. Darrah, Belleville, Ontario, Canada. Lock with key ejector. 2,641,920, June 16.

Gilmont, Roger: *See*—
Stone, Bertram M., and Gilmont.

Glauber, Henry, assignor of one-third to M. Falk, New York, N. Y. Portable armrest device. 2,642,117, June 16.

Glase, Herbert L., South Pasadena, and R. C. Beltz, Glendale, Calif., assignors, by mesne assignments, to Read Standard Corporation. Selective distributing apparatus. 2,642,177, June 16.

Goetz, Ernest F.: *See*—
Bedford, Alexander W., Jr., and Goetz.

Goborel, Fernand P., Antony, France, assignor to International Standard Electric Corporation, New York, N. Y. Route-selecting automatic telephone system. 2,642,499, June 16.

Goldsmith, Thomas L., assignor, by mesne assignments, to Clarke-Built Limited, London, England. Closure appliance for bottle capping machinery. 2,642,213, June 16.

Goldstein, Raymond, Woodside, assignor to The Sperry Corporation, Great Neck, N. Y. Fail safe limit switch. 2,642,557, June 16.

Goodman, Merl L., Adams County, Colo. Timecard rack. 2,642,189, June 16.

Goodrich, B. F., Company, The, assignee: *See*—
Hollerith, Charles.
Morningstar, Marion G., Schollenberger, and Stueber.

Gorin, Everett, Castle Shannon, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Separation of hydrocarbons and hydrocabon derivatives. 2,642,422, June 16.

Gorin, Everett, Castle Shannon, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Urea-olefin complexes. 2,642,423, June 16.

Gorin, Everett, Pittsburgh, Pa., and R. E. Kinney, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Separating hydrocarbons with thiourea. 2,642,424, June 16.

Gothberg, Karl E. A., Goteborg, and S. Sandahl, Heden, assignors to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Lubricating system. 2,642,156, June 16.

Gottscho, Adolph, Inc., assignee: *See*—
Jackson, John K.

Gowland, John P., Santa Barbara, Calif. Wheeled toy. 2,641,863, June 16.

Gowland, John P., Palo Alto, Calif. Toy locomotive. 2,641,865, June 16.

Gowland, John P., Santa Barbara, Calif. Writing instrument. 2,642,042, June 16.

Grabendike, William F., assignor to Cessna Aircraft Company, Wichita, Kans. Metal furniture. 2,642,126, June 16.

Grable, Donovan B., and W. A. Vock, Long Beach, Calif. Well pipe vibrating apparatus. 2,641,927, June 16.

Graham, William T., Amarillo, Tex. Winged wheeled harrow. 2,641,886, June 16.

Grant, George W., Hucyrus, Ohio. Producing dentures. 2,641,802, June 16.

Grant, Max L., assignee: *See*—
Ingraham, Elmer C.

Greco, Ralph, assignor to Vanity Corset Company, Inc., New York, N. Y. Girdle. 2,641,762, June 16.

Greenawalt, John E., Bronxville, N. Y. Conversion of sodium sulfide to sodium sulfite. 2,642,336, June 16.

Greenmun, Leo S., Avoca, N. Y. Artificial denture. 2,641,835, June 16.

Greiner, Emil, Company, The, assignee: *See*—
Stone, Bertram M., and Gilmont.

Grekel, Howard: *See*—
Steitz, Alfred, Jr., Grekel, Eliot, and Weaver.

Grether, Tobias, Camarillo, assignor of one-fourth to Ventura Farms Frozen Foods, Incorporated, Oxnard, Calif. Bean harvester. 2,641,888, June 16.

Griffin, Harold F., and M. C. Wright, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Tool joint lubricator. 2,642,034, June 16.

Grimson, Herman, and H. Davis, Chicago, Ill. Control apparatus for laundry and washing machines. 2,642,563, June 16.

Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Combined pump and air separator unit. 2,642,148, June 16.

Groov-Pin Corporation, assignee: *See*—
Braendel, Felix W.

Guice, Edgar P., assignee: *See*—
Waitman, Adolf E.

Gundlach, Joseph J., Belleville, Ill. Angle gauging device for use with shears. 2,641,845, June 16.

Gunz, Johanna: *See*—
Paulette, Charles H., and Gunz.

Gustafson, Carl J.: *See*—
Caustin, William, and Gustafson.

Haas, Frederick S., Orgonia, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Automatic truing mechanism. 2,641,873, June 16.

Haase, Heinrich E.: *See*—
Lager, Eric W., Haase, and Prohaska.

Haddad, George J., and J. H. Wells, Pittsburgh, Pa., assignors to United States Steel Corporation. Method and apparatus for crystallizing naphthalene. 2,642,465, June 16.

Haensel, Vladimir: *See*—
Berger, Charles V., and Haensel.

Hagemeyer, Hugh J., Jr.: *See*—
Hull, David C., and Hagemeyer.

Haigh, John T.: *See*—
Gale, Rowland A., and Haigh.

Hainsworth, Bruce A., Shaker Heights, assignor to The H. K. Ferguson Company, Cleveland, Ohio. Freight handling system. 2,642,197, June 16.

Hale, Frank J., trustee, assignee: *See*—
Cipolla, Joseph S.

Hall, Arthur L., and H. B. Dyer, Tampa, Fla., said Dyer assignor to said Hall. Telephone lock. 2,642,501, June 16.

Hall, Harold F., Portland, Oreg. Rotary moldboard plow. 2,641,984, June 16.

Hamann, Kuno E., Long Island City, N. Y., assignor to J. A. Lamprecht, Elizabeth, N. J. Selective article vending machine. 2,642,171, June 16.

Hammond, John H., Jr., Gloucester, Mass. Television type facsimile transmission system. 2,642,492, June 16.

Hanna, Glenn E., assignor to Breco Manufacturing Company, Baltimore, Md. Coupling. 2,642,297, June 16.

Hanson, Melvin A., assignee: *See*—
Lasky, Wayne E., and Seniff.

Harrington, Donald F.: *See*—
Wheaton, Robert M., and Harrington.

Harris, Jay C., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Surface-active composition. 2,642,400, June 16.

Harris, Lawrence R., Vida, Oreg. Manually operated fender reshaping roller. 2,641,945, June 16.

Harris, Ralph E., Long Beach, assignor to F. A. Pachmayr, Culver City, Calif. Harpoon gun. 2,642,056, June 16.

Harrison, Dovie A., assignee: *See*—
Christie, Cleve F.

Harshberger, Russell P., Altadena, Calif. Earthworking machine. 2,641,982, June 16.

Hart, Marion R., and F. Collura, New York, N. Y. Flight position locator. 2,641,843, June 16.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Berindel, Matthew, and Tennet.
Bügel, Roelof D., Jonker, and van Santen.
De Gier, Johannes, and Peper.
Rodenhuis, Klaas.
Visch, Henri M.

Hartman, Richard A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Separable fastener. 2,641,814, June 16.

Hasbrouck, Richard B., Waukegan, assignor to Abbott Laboratories, North Chicago, Ill. Piperazine salts of cyclopentanopolyhydrophenanthrene - 3 - monosulfates. 2,642,427, June 16.

Hascall, Richard C., Detroit, Mich. Electric circuit operating device. 2,642,504, June 16.

Haskell, Herbert T., Carlsbad, N. Mex. Paper padding press. 2,641,781, June 16.

Haulman, Clyde A., Hyattsville, Md., and D. J. Hilferty, deceased (by E. M. George, executrix), Riverdale, Md. Coaxial transmission line switch. 2,642,495, June 16.

Hawaiian Canneries Company, Limited, assignee: *See*—
Horner, Albert, and Story.

Haynes, Clyde H., Elyria, Ohio. Automobile bumper guard jack. 2,642,304, June 16.

Heatbath Appliances, Inc., assignee: *See*—
Du Fault, Homer D.

Heath, William R., assignor to Buffalo Forge Company, Buffalo, N. Y. Fan housing. 2,642,219, June 16.

Heatilator, Inc., assignee: *See*—
James, Paul W., and Reynolds.

Heehler, Arthur C.: *See*—
McDowell, Thomas E., and Heehler.

Heigl, John J., Cranford, N. J., assignor to Standard Oil Development Company. Multicomponent gas analyzer. 2,642,536, June 16.

Heimsch, Robert A.: *See*—
Emerson, William S., and Heimach.

Hein, Charles E.: *See*—
Riopelle, Earl F., and Hein.

Heizer, Edward J., Mountain Lakes, assignor to Specialties Development Corporation, Belleville, N. J. Yarn tensioning device. 2,642,236, June 16.

Helding, Herbert W., Highland Park, Ill. Color analyzing and synthesizing device. 2,641,853, June 16.

Helton, William H., Burns, Kans. Sleeve puller. 2,641,831, June 16.

Henderson, John, New Market, A. Bloch, and H. L. Davis, Highland Park, N. J., assignors to Ethicon Suture Laboratories Incorporated. Hemostatic compositions. 2,642,375, June 16.

Hept, Ralph W., Bronson, Mich., assignor to Kingston Products Corporation, Kokomo, Ind. Directional turn indicator. 2,642,505, June 16.

Herkenhoff, Earl C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Ion exchange process with magnetic ion exchange resins. 2,642,514, June 16.

Herring, Harold W.: *See*—
Conklin, Robert M., and Herring.

Hickey, Eldon E., assignee: *See*—
Waltman, Adolf E.

Highway Trailer Company, assignee: *See*—
Connors, George H.

Hilferty, Daniel J.: *See*—
Haulman, Clyde A., and Hilferty.

Hines, Edward A.: *See*—
Capehart, Ashbourne D., and Hines.

Hinsken, Howard W., and H. H. Giesler, Buffalo, N. Y. Folding leg structure for tables. 2,642,325, June 16.

Hobson, Lawrence M., Portland, Oreg. Bracket receptacle. 2,642,191, June 16.

Hoe, R., & Co., Inc., assignee: *See*—
Albrecht, Alexander J.
Wieking, William C.

Hoffert, William J.: *See*—
Robinson, Alfred K., and Hoffert.

Hoffmann-La Roche Inc., assignee: *See*—
Duschinsky, Robert.

Hogan, John P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of high octane fuel components. 2,642,467, June 16.

Hojlo, Roy, Worland, Wyo. Beet harvester. 2,641,802, June 16.

Hollerith, Charles, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Locked bolt. 2,642,109, June 16.

Hollingsworth, John H., Altadena, and K. L. Bedell, assignors to Holly Manufacturing Company, Pasadena, Calif. Wall heater. 2,642,270, June 16.

Holly Manufacturing Company, assignee: *See*—
Hollingsworth, John H., and Bedell.

Holm, Julius A., assignor of one-third to S. G. Wales, Jr., one-sixth to W. Lindstrom, and one-sixth to L. Lindstrom, Iron River, Mich. Snowplow attachment. 2,642,294, June 16.

Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Cloth roll mounting for narrow ware looms. 2,642,096, June 16.

Holophane Company, Inc., assignee: *See*—
Wince, Vearl S.

Hooker, Stanley G.: *See*—
Page, Frederick W., and Hooker.

Hoppens, Harold A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Polymerization in the presence of organic hydroperoxide and metal salt drier. 2,642,410, June 16.

Horn, Henry J., U. S. Navy, and C. M. Russell, Washington, D. C. Wave form converter. 2,642,525, June 16.

Horne, Joseph W., and P. R. Tisot, Laramie, Wyo., assignors to the United States of America as represented by the Secretary of the Interior. Recovery of waxes from shale oil. 2,642,380, June 16.

Horner, Albert, and P. E. Story, Kapaa, Kauai, assignors to Hawaiian Canneries Company, Limited, Kapaa, Hawaii. Mechanical weight classifier. 2,642,184, June 16.

Houdaille-Hershey Corporation, assignee: *See*—
Boehm, Charles H.

Houdry Process Corporation, assignee: *See*—
Bond, George R., Jr.

House, Bryan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,642,159, June 16.

Howell, Wallace E., Lexington, Mass., assignor to the United States of America as represented by the Secretary of the Air Force. Icing condition indicating means. 2,641,928, June 16.

Howling, Benjamin W. and M. C., Billings, Mont. Bird nest frame. 2,642,038, June 16.

Howling, Marie C.: *See*—
Howling, Benjamin W. and M. C.

Hull, David C., and H. J. Hagemeyer, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Isomerization of alkyl vinyl ethers. 2,642,460, June 16.

Hunter, Robert H., Gates Mills, and E. J. Kasper, Cleveland, Ohio; said Kasper assignor to said Hunter. Dishwashing machine and method. 2,642,369, June 16.

Hurd, Charles D.: *See*—
Kreuz, Kenneth L., and Hurd.

Husted, Donald R.: *See*—
Ahlbrecht, Arthur H., Reid, and Husted.

Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Combined electromagnetically actuated clutch and brake. 2,642,169, June 16.

Huyton, Alfred, Burnley, assignor to Joseph Lucas Limited, Birmingham, England. Liquid fuel combustion chamber. 2,641,903, June 16.

Hydrocarbon Research, Inc., assignee: *See*—
Keith, Percival C.

Illig, George D., assignor, by mesne assignments, to C. B. Roberts, Lockport, N. Y., as trustee. Feed ring with drain grooves for rotating grindstone wood grinding machines. 2,642,231, June 16.

Illsley, Ralph W.: *See*—
Allbright, Norman J., and Illsley.

Imperial Chemical Industries Limited, assignee: *See*—
May, Winston E., and Scott.
Woolcock, James W.

Infante, Samuel J., Bloomfield, assignor to P. B. Molinaro, Verona, N. J. Plastic tooth mounting. 2,641,837, June 16.

Infilco Incorporated, assignee: *See*—
Paulette, Charles H., and Ounz.

Ingraham, Elmer C., Cambridge, Mass., assignor to M. L. Grant, Providence, R. I. Coin hopper and chute. 2,642,073, June 16.

Ingwersen, Richard C., assignor to Mechanical Products, Inc., Jackson, Mich. Switch. 2,642,510, June 16.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Horne, Joseph W., and Tisot.

International Business Machines Corporation, assignee: *See*—
Bryce, James W., and Siskely.
Luhn, Hans P.

International Glass Company, Inc., The, assignee: *See*—
Dalrymple, Philip W.

International Projector Corporation, assignee: *See*—
Stephans, J Larry.

International Standard Electric Corporation, assignee: *See*—
Frankel, Sidney.
Gohorel, Fernand P.
Terry, Victor J., and Kelly.
Wilson, James H.

Interstate Bakeries Corporation, assignee: *See*—
Enoch, Duard W.

Invisible Glass Company of America, Inc., assignee: *See*—
McCormick, William E.

Ireland, Ralph J., Mankato, Minn. Transport device for disk harrows. 2,641,885, June 16.

Irving Air Chute Company, Inc., assignee: *See*—
Loxham, John.

Ismah Corporation of New York, assignee: *See*—
Shamah, Israel.

Jackson, John K., Westfield, assignor, by mesne assignments, to Adolph Gottscho, Inc., Hillside, N. J. Marking apparatus. 2,641,999, June 16.

James, Paul W., Fayetteville, and H. G. Reynolds, assignors to Heatilator, Inc., Syracuse, N. Y. Counterbalancing spring hinge. 2,641,795, June 16.

Janness, William E., Wheeling, assignor to Lighting Products, Inc., Highland Park, Ill. Electric lighting fixture support. 2,642,251, June 16.

Jaros, Edward F., Arcadia, assignor to Schoen Products Company, Gardena, Calif. Easel construction. 2,641,964, June 16.

Jeanneret, R., & Co., assignee: *See*—
Jeanneret, Robert H.

Jeanneret, Robert H., Saint Imier, assignor to R. Jeanneret & Co., Excelsior Park, Saint Imier, Bern, Switzerland. Chronograph setting hammer system. 2,641,899, June 16.

Jeanneret, Robert H., Saint-Imier, assignor to R. Jeanneret & Co., Excelsior Park, Saint-Imier, Switzerland. Timepiece with chronograph. 2,641,900, June 16.

Jennings, Victor E., Ripley, Tenn. Support for retractable ladder for vehicles. 2,642,217, June 16.

Jensen, Adolph V., Council Bluffs, Iowa. Bed tent. 2,641,776, June 16.

Jensen, Povl E., Copenhagen, Valby, Denmark. Metal string for musical instruments. 2,641,949, June 16.

Jensen, Raymond W., assignor to The Garrett Corporation, Los Angeles, Calif. Combination pressure relief, vacuum relief, and dump valve. 2,641,985, June 16.

Johnson A., & Company (London) Limited, assignee: *See*—
Porges, Leo, and Sawyer.

Johnson, David W., New Britain, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Rotary selector switch with bias. 2,642,502, June 16.

Johnson, George W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Washing machine with vacuum drying. 2,641,916, June 16.

Johnson, Gordon, Company, assignee: *See*—
Johnson, Gordon W.

Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Poultry picking machine. 2,641,796, June 16.

Johnson, Harry A., Omaha, Nebr. Adjusting injectors. 2,642,647, June 16.

Johnson, Joe M., near Iowa Park, Tex. Valve. 2,642,262, June 16.

Johnson & Johnson, assignee: *See*—
Fisher, Harland S., and Beck.

Johnson, Lloyd E., Parma, assignor to Sparks-Withington Company, Jackson, Mich. Universal mounting for tension disk for air horns. 2,642,028, June 16.

Johnson, Quinton C.: *See*—
Bussiere, George, Johnson, and Straub.

Johnson, Ralph E., Rahway, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Darning attachment for sewing machines. 2,642,022, June 16.

Johnson, Virginia C.: *See*—
Mayer, Ivan, and Johnson.

Jones, Jack W., Chester, assignor to Sun Oil Company, Philadelphia, Pa. Device for detecting or measuring magnetic fields. 2,642,479, June 16.

Jonker, Gerard H.: *See*—
Bügel, Roelof D., Jonker, and Van Santen.

Judson, Albert L., Portland, Oreg., assignor, by mesne assignments, to On-A-Lite Corporation, Peoria, Ill. Lighting fixture. 2,642,561, June 16.

Junghahnn, Vernon H., assignor to Eastman Kodak Company, Rochester, N. Y. Intermittent film-feeding mechanism. 2,641,962, June 16.

Kahma, Aarno A.: *See*—
Puranen, Maunu, and Kahma.

Kapp, Roland, Newark, N. J., S. Chodroff, Brooklyn, N. Y., and L. Sofield, Red bank, assignors to Nopco Chemical Company, Harrison, N. J. Production of 7-dehydrosterols. 2,642,446, June 16.

Karasek, Stanislaus, Vienna, Austria. Collapsible camp bed. 2,641,777, June 16.

Karitzky, John, Cranford, assignor to Diamond Expansion Bolt Company, Inc., Garwood, N. J. Drive ring. 2,642,242, June 16.

Kaschagen, Leo, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Continuous hydrogenation of sugars. 2,642,462, June 16.

Kasnowich, Anthony M., Grand Rapids, Mich. Arm support for operating beds. 2,642,230, June 16.

Kasper, Elmer J.: *See*—
Hunter, Robert H., and Kasper.

Kayler, Frank H.: *See*—
Tack, Carl E., Bachman, and Kayler.

Kearns, Bernard A.: *See*—
Decker, Jacob, and Kearns.

Kebbon, Earl R., Chatham, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Floatable thermometer. 2,641,930, June 16.

Keely, Harry W.: *See*—
Coolidge, Roger S., Keely, Smith, and Anderson.

Keenan, William J.: *See*—
Scharf, Philip T., and Keenan.

Keith, Percival C., Peapack, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Process and apparatus for exothermic reactions. 2,642,346, June 16.

Keller, Curt, Kusnacht, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Closed circuit power plant having bypass means to regulate heat input to earh turbine. 2,641,905, June 16.

Kelley, George G., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Multichannel analyzer. 2,642,527, June 16.

Kellogg, M. W., Company, The, assignee: *See*—
Dickinson, Norman L.

Kelly, James F., Chicago, Ill. Article holder. 2,642,190, June 16.

Kelly, Richard: *See*—
Terry, Victor J., and Kelly.

Kenmar Manufacturing Company, The, assignee: *See*—
Maurer, Robert A.

Kennedy, Truman H., Elizabeth Township, Allegheny County, and S. Webb, Pleasant Hills, Pa., assignors to United States Steel Corporation. Apparatus for straightening pipe. 2,642,113, June 16.

Kent, Henry, deceased, New York, N. Y.; P. Kent, executrix. Cerium base alloy. 2,642,358, June 16.

Kent, Paula, executrix: *See*—
Kent, Henry.

Kenyon, William O.: *See*—
Waugh, George P., and Kenyon.

Kenyon, William O., G. P. Waugh, and E. W. Taylor, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of polyvinyl alcohol. 2,642,420, June 16.

Kerr, John A., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Combination ram jet and turbojet. 2,641,902, June 16.

Kimball, Raymond, assignor to C. E. Perry, Pasadena, Calif. Pencil holder for telephone instruments. 2,641,809, June 16.

Kimball, Vernon R., Maywood, and A. Drenkard, Jr., Teaneck, assignors to Bendix Aviation Corporation, Teterboro, N. J. Control system. 2,642,567, June 16.

Kindorf, Orlan C., San Francisco, Calif. Clamp for hanging pipe and the like. 2,642,243, June 16.

King, Edward E., Los Angles, Calif. Spray gun. 2,642,317, June 16.

King, H. A., assignee: *See*—
Peirce, Thomas H.

King, H. A., Co., assignee: *See*—
Peirce, Thomas H.

King Pneumatic Tool Company, assignee: *See*—
Bright, Harold T.

King, William H.: *See*—
Dennis, Franklin L., King, and Myers.

Kingston Products Corporation, assignee: *See*—
Hept, Ralph W.

Kinney, Robert E.: *See*—
Gorin, Everett, and Kinney.

Kipp, Ralph P., Ossining, N. Y. Power buck saw. 2,642,101, June 16.

Kirby, Roy G., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Grinding machine. 2,641,874, June 16.

Kirby, Roy G., J. M. Morgan, Jr., and J. Decker, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Grinding wheel speed regulator. 2,641,875, June 16.

Kircher, Paul J., Plainville, assignor to Landers, Frary & Clark, New Britain, Conn. Indicator for flatiron control means. 2,642,027, June 16.

Kirkham, Hall, Cleveland, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y. Flow control valve. 2,642,088, June 16.

Kissling, Hans, St. Martin, Switzerland. Tube closing system. 2,642,208, June 16.

Klebes & Co., assignee: *See*—
Mussgüller, Johann F. W.

Klein, Joseph J.: *See*—
Lamb, Miles A., Klein, Stranberg, and Frankowski.

Klein, Norman E., Clemson, assignor to Deering Milliken Research Trust, Pendleton, S. C. Process and apparatus for converting textile fibers. 2,641,804, June 16.

Knapp, Ismond E.: *See*—
Eckhardt, Owen S., and Knapp.

Knights, Richard N., Hucclecote, and C. M. Frye, Longlevens, assignors to Dowty Equipment Limited, Cheltenham, England. Mine roof support. 2,641,906, June 16.

Knoblaugh, Armand F., assignor to The Baldwin Company, Cincinnati, Ohio. Aligning and freeing bearings. 2,641,828, June 16.

Knoth, Fred, Jr.: *See*—
Cohen, Charles A., and Knoth.

Knox, Donald G., Long Beach, and J. W. Lawrence, Jr., Los Angeles, Calif., assignors to The National Supply Company, Pittsburgh, Pa. Plunger lift device. 2,642,002, June 16.

Koch, Gustav H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air translating apparatus. 2,642,220, June 16.

Kolb, Robert H., Houston, Tex., assignor to Shell Development Company, Emeryville, Calif. Collapsible packer for well instruments. 2,642,141, June 16.

Kollsman Instrument Corporation, assignee: *See*—
Andresen, John H., Jr.

Kolonick, Richard A.: *See*—
Anderson, David E., Kolonick, and Raymor.

Korsmo, Alfred, Hopkins, and M. Ronning, St. Louis Park, assignors to Minneapolis-Moline Company, Hopkins, Minn. Row crop implement-tractor combination. 2,641,887, June 16.

Kramer, Jack M., Los Angeles, Calif. Baby pen for automobiles. 2,641,773, June 16.

Kreer, John G., Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave translating system. 2,642,473, June 16.

Kreuz, Kenneth L., Fishkill, N. Y., and C. D. Hurd, Evanston, Ill., assignors to The Texas Company, New York, N. Y. Nitrothienyl ketones. 2,642,440, June 16.

Krize, Frank, Jr., Natchez, Miss. Bottle screw cap remover. 2,641,043, June 16.

Krusberger, Joseph F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine. 2,642,180, June 16.

Kruse, Carl H., assignee: *See*—
Phipps, Frank A.

Kyllo, Henrik O., assignor to Bardons and Oliver, Inc., Cleveland, Ohio. Automatic head for machine tools. 2,641,938, June 16.

L & M Engineering Corp., assignee: *See*—
McShane, John F., and Logan.

Lacy, Charles J., Olivette, Mo. Interlocking bricks. 2,641,921, June 16.

Ladrach, Aaron G., deceased, late of Akron, Ohio, by D. B. Ladrach, administratrix, Akron, Ohio, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Electromagnetic gauging equipment. 2,641,841, June 16.

Ladrach, Dorothy B., administratrix: *See*—
Ladrach, Aaron G.

Laffoon, Charles A., Miami, Fla., assignor to Aeroquip Corporation, Jackson, Mich. Hose covering stripping tool. 2,641,944, June 16.

Lager, Eric W., Palos Park, H. E. Haase, Chicago, and J. J. Prohaska, La Grange, Ill., assignors to Swift & Company. Adhesive applier for fiber containers. 2,642,031, June 16.

Lamb, Clyde C., Milwaukie, Oreg. Furniture made of stamped or molded material and adapted for nesting. 2,642,118, June 16.

Lamb, Miles A., Chicago, J. J. Klein, Glencoe, W. C. Stranberg, Elmhurst, and J. H. Frankowski, Chicago, Ill., assignors to Chicago Pump Company. Making corrugated tubes. 2,641,836, June 16.

Lampe, Robert C.: *See*—
Borkoski, Leon P., and Lampe.

Lamprecht, Joseph A., assignee: *See*—
Hamann, Kuno E.

La Nationale S. A., assignee: *See*—
Bolle, Léon.

Landers, Frary & Clark, assignee: *See*—
Kircher, Paul J.

Landolt, Karl, Zurich, Switzerland. Double twist spindle. 2,641,806, June 16.

Lane, Clarence A., Aldan, Pa. Collapsible tube contents dispenser having a winding key and rollers. 2,642,205, June 16.

Lang, Ivan R., Omaha, Nebr. Coat retainer. 2,642,210, June 16.

Langos, Alfred F., assignor to Langson Manufacturing Co., Chicago, Ill. Paper bursting toy gun. 8,641,868. June 16.

Langson Manufacturing Co., assignee: *See*—
Langos, Alfred F.

Langston, Samuel M., Co., assignee: *See*—
Sperling, Arthur F., and Schroeder.

La Porte, Francis L., assignee: *See*—
La Porte, Louis F.

La Porte, Louis F., Wellston, Mo., assignor to F. L. La Porte, Burlingame, Calif. Refrigerator defrosting means. 2,641,908, June 16.

Lapwell Watch Case Corp., assignee: *See*—
Geoffrion, Arthur J.

La Rosa, Elizabeth, McKeesport, Pa. Rubber glove. 2,641,767, June 16.

Laskowski, Stanley C.: *See*—
Clinton, Raymond O., and Laskowski.

Lasky, Wayne E., Bloomington, Ill., and R. W. Seniff, Baltimore, Md., assignors of one-quarter to M. A. Hanson, and one-quarter to H. E. Frank, Bloomington, Ill. 2,642,478, June 16.

Lau Blower Company, The, assignee: *See*—
Wilken, Carl E.

Laurey, Henry E., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Catalyst recovery. 2,642,401, June 16.

Lawler, Carlton, Dallas, Tex. Plate and cover therefor. 2,641,912, June 16.

Lawrence, James W., Jr.: *See*—
Knox, Donald G., and Lawrence.

Lawshe, Errol R., Ridgewood, assignor to Becton Dickinson and Company, Rutherford, N. J. Injection device. 2,642,064, June 16.

Lawson, William L., Forest Hills, assignor to Whitehouse Products, Inc., Brooklyn, N.Y. Camera shutter mechanism with synchronizer. 2,641,978, June 16.

Layte, Ralph R., Westfield, and A. E. Bell, Union, assignors to Purolator Products, Inc., Rahway, N. J. Replaceable filter unit construction. 2,642,188, June 16.

Leach Brothers, Inc., assignee: *See*—
Eckhardt, Owen S., and Knapp.

Leahy, James F.: *See*—
Ashley, John W., and Leahy.

Leahy, James F., Beverly, and G. F. C. Burke, Fairhaven, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoe and heel attached thereto. 2,641,852, June 16.

Lear, Incorporated, assignee: *See*—
Geistert, Edward C.

Leber, Benjamin F., Chicago, Ill. Perambulator frame. 2,642,296, June 16.

Lecher, Hans Z., Plainfield, and K. C. Whitehouse, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Halogen addition products of 1,4-dihydroanthraquinone. 2,642,445, June 16.

Leckrone, Roy J., Mount Lebanon, assignor to Pittsburgh Engineering and Machine Company, Pittsburgh, Pa. Ingot stripper. 2,641,806, June 16.

Lee, George H., Troy, N. Y. Fertility computing device. 2,642,225, June 16.

Leighton, Edgar C., Springfield, Pa. License plate holder. 2,641,815, June 16.

Leroy, Denis, Rennes, France. Apparatus for limb reeducation. 2,642,286, June 16.

Leupold & Stevens Instruments, Inc., assignee: *See*—
Stevens, John C.

Levy, Maurice M., Ottawa, Ontario, Canada, assignor to The General Electric Company Limited, London, England. Multichannel pulse signaling system. 2,642,407, June 16.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Cordier, David E.
Hoppens, Harold A.
Plueddemann, Edwin P.

Lichtman, Samuel W., Oxon Hill, Md. Geiger tube circuit with cathode follower. 2,642,539, June 16.

Lighting Products, Inc., assignee: *See*—
Janness, William E.

Liljestrand, Walter E., assignor to Mission Manufacturing Company, Houston, Tex. Power operated slip. 2,641,816, June 16.

Limestone Products Corporation of America, assignee: *See*—
Gehm, Harry W., and Purcell.

Lindgren, George O. R., Willoughby, assignor to The Weatherhead Company, Cleveland, Ohio. Packless valve. 2,642,255, June 16.

Lindow, Arthur L., Macedonia, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Protecting butt flash welded articles from weld splatter. 2,642,517, June 16.

Lindstrom, Lawrence, assignee: *See*—
Holm, Julius A.

Lindstrom, Walter, assignee: *See*—
Holm, Julius A.

Link, Karl P.: *See*—
Seidman, Martin, and Link.

Lintz, Mark, San Francisco, Calif., assignor to Fuller Company. Cement cooler. 2,641,849, June 16.

Lippincott, Samuel B., Westfield, N. J., assignor to Standard Oil Development Company. Preparation of borates of tertiary alcohols. 2,642,453, June 16.

Lippold, Adolph J., Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Chicago, Ill. Bottle filler. 2,642,214, June 16.

Lisbon Machine Company, Incorporated, assignee: *See*—
Dotson, Orrie E.

Litton, Charles V., Redwood City, Calif. High-frequency magnetron. 2,642,551, June 16.

Livingston, Herbert K.: *See*—
Bradley, Harris W., and Livingston.

Livingston, Herbert K., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Alkali metal dispersions. 2,642,344, June 16.

Lloyd, Llewellyn N.: *See*—
Turner, Neil H., and Lloyd.

Locke, George A., Glenwood Landing, and A. Weaver, Port Washington, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic message accounting system. 2,642,493, June 16.

Lockheed Aircraft Corporation, assignee: *See*—
Simon, Eli, and Thomas.

Logan, Walter: *See*—
McShane, John F., and Logan.

Loxham, John, Letchworth, England, assignor to Irving Air Chute Company, Inc., Buffalo, N. Y. Quickly releasable connecting device. 2,641,813, June 16.

Lubin, Earl O., and J. S. Stein, Chicago, Ill. Hair conditioning applicator. 2,642,070, June 16.

Lucas, Joseph, Limited, assignee: *See*—
Huyton, Alfred.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Keyboard. 2,642,226, June 16.

Lummus Company, The, assignee: *See*—
Reed, Carl S.

Lundeberg, Edgar C., Hartford, Conn. Actuating mechanism for impact machines. 2,641,941, June 16.

Lüttgens, Werner, administrator: *See*—
Mussgüller, Johann F. W.

Lynch Brothers, Inc., assignee: *See*—
Lynch, Walter T.

Lynch, Charles S.: *See*—
Corner, Eugene S., and Lynch.

Lynch, Walter T., Collinsville, assignor to Lynch Brothers, Inc., Pine Meadow, Conn. Gas pilot lighter. 2,642,084, June 16.

Maas, Louis A., Glendale, assignor to Maas-Rowe Electromusic Corporation, Los Angeles, Calif. Chime clock control mechanism. 2,641,897, June 16.

Maas-Rowe Electromusic Corporation, assignee: *See*—
Maas, Louis A.

MacCallum, Alan M., Maywood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Automatic steering system. 2,642,554, June 16.

Macewka, John, Royal Oak, Mich. Hydraulically actuated press. 2,642,138, June 16.

MacHenry, Richard: *See*—
Brown, Charles B., Cox, MacHenry, and Finkle.

Machlet, George A. F., Elizabeth, N. J. Pulsing electronic measuring and control apparatus. 2,642,228, June 16.

Mackinney, Herbert W., East Orange, and S. J. Schultz, Cranford, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Manufacture of wet strength paper. 2,642,360, June 16.

Magnex, Inc., assignee: *See*—
Wilm, Carl C.

Mahan, John E., and S. D. Turk, Bartlesville, Okla., assignors to Phillips Petroleum Company. Making nitriles. 2,642,454, June 16.

Mahoney, Thomas R., Greenville, assignor, by mesne assignments, to The Chase Foundry & Manufacturing Company, Columbus, Ohio. Portable conveyer. 2,642,175, June 16.

Maid-O'-Mist, Inc., assignee: *See*—
Woolley, William J.

Manitowoc Shipbuilding Company, assignee: *See*—
Catlin, Arthur W.

Manne, Moe, New York, N. Y. Finger ring with spring guard. 2,641,909, June 16.

Mansell, Leland R.: *See*—
Wallace, De Yarman, and Mansell.

Marathon Corporation, assignee: *See*—
Rumberger, George G.

Marburg, Edgar, Pittsburgh, Pa., assignor to United States Steel Corporation. Ingot mold. 2,641,807, June 16.

Marine Aircraft Corporation, The, assignee: *See*—
McCarty, Lewis C., Jr., and Fello.

Markowitz, Jesse, Forest Hills, N. Y. Vibration isolator. 2,642,253, June 16.

Martin-Decker Corporation, assignee: *See*—
White, Jud E.

Martin, Homer Z., Roselle, N. J., assignor to Standard Oil Development Company. Production of oxygen. 2,642,340, June 16.

Masonite Corporation, assignee: *See*—
Brink, Edwin H.

Maurer, Robert A., assignor to The Kenmar Manufacturing Company, East Palestine, Ohio. Leg supporting platform and extension for adjustable chairs. 2,642,122, June 16.

May, Edwin A., Ridgewood, assignor to Becton Dickinson and Company, Rutherford, N. J. Injection apparatus. 2,642,062, June 16.

May, Winston E., Rudheath, and T. R. Scott, Acton Bridge, England, assignors to Imperial Chemical Industries Limited. Production of three-dimensional dendritic sodium chloride crystals. 2,642,335, June 16.

Mayer, Charles M., assignor to The Tappan Stove Company, Mansfield, Ohio. Indicator for cooking range ovens. 2,642,132, June 16.

Mayer, Ivan, Summit, N. J., and V. C. Johnson, Knoxville, Tenn., assignors to Standard Oil Development Company. Hydrocarbon synthesis. 2,642,448, June 16.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McCarty, Lewis C., Jr., and H. G. Fello, assignors to The Marine Aircraft Corporation, New York, N. Y. All-weather airplane. 2,642,238, June 16.

McCormick, Harold R., Winslow, Ariz. Jointer knife setting gauge. 2,641,847, June 16.

McCormick, William E., assignor to Invisible Glass Company of America, Inc., New York, N. Y. Display window. 2,641,953, June 16.

McCouch, Gordon P., Mountain Lakes, assignor to Aircraft Radio Corporation, Boonton, N. J. Monitored power output system for resonator cavities. 2,642,472, June 16.

McDermott, Henry J., Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del. Liquid applicator for yarn. 2,642,035, June 16.

McDonald, Angus, and J. R. Strobel, assignors to Baldwin Rubber Company, Pontiac, Mich. Apparatus for extruding pellets. 2,641,799, June 16.

McDowell, Thomas E., and A. C. Hechler, assignors to The Pyle-National Company, Chicago, Ill. Illumination apparatus for warning and signaling purposes and having headlight and warning light units adjustable in unison. 2,642,522, June 16.

McEntyre, Alvin R.: *See*—
McEntyre, Kent K., and A. R.

McEntyre, Kent K., Calhoun, Ga., and A. R. McEntyre, Gadsden, Ala. Mechanical fiddler. 2,641,867, June 16.

McGraw Electric Company, assignee: *See*—
Pummer, Leo.

McKay-Davis Chemical Corporation, assignee: *See*—
Donofrio, Alfonso M.

McKee, Arnold W., Des Moines, Iowa. Tip up extension for air brake levers. 2,641,939, June 16.

McLean, Vincent, Hollis, assignor to Western Electric Company, Incorporated, New York, N. Y. Swinging door. 2,642,164, June 16.

McShane, John F., and W. Logan, Greenwood, R. I., assignors to L & M Engineering Corp. Reciprocating blade lawn mower. 2,641,894, June 16.

McVey, Emmett E., and J. H. Opre, Youngstown, Ohio. Arch form for furnace roofs. 2,642,163, June 16.

Mechanical Products, Inc., assignee: *See*—
Ingwersen, Richard C.

Meek, George W., Pelham, and W. H. Wheeler, assignors to Airkem, Inc., New York, N. Y. Diffuser and binder base for residue of evaporable material. 2,642,310, June 16.

Meilert, Lawrence J., Atlanta, Ga. Motion-picture camera lens attachment. 2,641,952, June 16.

Meopta, národní podnik, assignee: *See*—
Orel, Jaroslav.

Merck & Co., Inc., assignee: *See*—
Weijlard, John, and Tishler.

Mercury Manufacturing Company, The, assignee: *See*—
Milz, Harold E.

Mergenthaler Linotype Company, assignee: *See*—
Biegert, George.
Krusberger, Joseph F.

Merrill, Howard J., State College, Pa. Cow stall structure. 2,642,037, June 16.

Merritt, Glenn W., and C. L. Muntz, Bowerston, Ohio. Track positioned cra-feeding mechanism. 2,642,006, June 16.

Michaels Art Bronze Company, The, assignee: *See*—
Michaels, Lawrence.

Michaels, Lawrence, Fort Mitchell, assignor to The Michaels Art Bronze Company, Covington, Ky. Coin loss preventer. 2,642,170, June 16.

Miessner, Benjamin F., assignor to Miessner Inventions Inc., Morristown, N. J. Antileak fountain pen. 2,642,041, June 16.

Miessner, Benjamin F., assignor to Miessner Inventions Inc., Morristown, N. J. Fountain pen. 2,642,043, June 16.

Miessner Inventions Inc., assignee: *See*—
Miessner, Benjamin F.

Mikeska, Louis A., and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Synthetic lubricating oil. 2,642,452, June 16.

Miles, Sidney E.: *See*—
Garner, Philip J., and Miles.

Miller, Catherine F., administratrix: *See*—
Miller, Charles J.

Miller, Charles J., deceased, Buffalo, N. Y., by C. F. Miller, administratrix, Buffalo, N. Y. Apparatus for powdering the interior of surgeons' gloves. 2,642,033, June 16.

Miller, Donald S.: *See*—
Carroll, Kenneth G, and Miller.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Gear shaping machine with displaceable apron. 2,641,968, June 16.

Miller, Homer H., Bridgeport, Conn., assignor to General Electric Company. Combined handle and support. 2,641,994, June 16.

Miller, Lloyd F.: *See*—
Clark, George R., and Miller.

Miller, René H., Boston, Mass. Helicopter rotor. 2,642,143, June 16.

Milz, Harold E., assignor to The Mercury Manufacturing Company, Chicago, Ill. Lifting mast assembly. 2,642,157, June 16.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Bowar, Earl C.
Mouzon, James C.
Wild, Rudolf F.
Wilson, Theodore J.

Minneapolis-Moline Company, assignee: *See*—
Korsmo, Alfred, and Ronning.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Ahlbrecht, Arthur H., Reid, and Husted.

Mirus, Ferdinand: *See*—
Zobel, Theodor W., and Mirus.

Mission Manufacturing Company, assignee: *See*—
Liljestrand, Walter E.

Missouri Automatic Control Corporation, assignee: *See*—
Wasser, Joseph A.

Mitchell, Alice M., assignee: *See*—
Mitchell, Paul M.

Mitchell, Paul M., assignor of one-half to A. M. Mitchell, Chicago, Ill. Automobile bumper guard. 2,642,303, June 16.

Modine, Arthur B., Racine, Wis. Smoking pipe. 2,642,069, June 16.

Moeri, John C., New Orleans, La., assignor to Farm Fresh Milk Corporation, Miami, Fla. Canning whole fresh milk. 2,642,363, June 16.

Mofenson, Jack, Medford, assignor to Raytheon Manufacturing Company, Newton, Mass. Electron discharge circuits. 2,642,532, June 16.

Molinaro, Peter B., assignee: *See*—
Infante, Samuel J.

Moloney, Raymond T., and H. L. Selden, Chicago, Ill.; said Selden assignor to said Moloney. Angularly adjustable ball bumper. 2,642,290, June 16.

Monsanto Chemical Company, assignee: *See*—
Butler, John M.
Cohen, Oscar P.
Dazzi, Joachim.
Downey, Paul M.
Emerson, William S., and Heimach.
Erickson, Floyd B.
Harris, Jay C.
Mowry, David T., and Schlesinger.
Nielsen, Morris L.

Monson, Martin B., near Henderson, Colo. Weighing and packaging machine. 2,642,276, June 16.

Montefusco, Michael T., Brooklyn, N. Y. Window guard. 2,642,134, June 16.

Montenier, Jules B., Chicago, Ill. Unitary container and atomizer for liquids. 2,642,313, June 16.

Moore, Robert E., Winnetka, assignor to Bell & Gossett Company, Morton Grove, Ill. Flow control valve. 2,642,260, June 16.

Morgan, Clarence A., Albany, Calif. Clothespin. 2,641,811, June 16.

Morgan, John M., Jr.: *See*—
Kirby, Roy G., Morgan, and Decker.

Morin, Alexandre H., Montlucon, France. Elastic diaphragm. 2,642,091, June 16.

Morningstar, Marion G., C. S. Schollenberger, and G. E. Stueber, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Preparation of polyisocyanates. 2,642,449, June 16.

Morphy, Donal W., Chislehurst, and W. M. Russell, Slough, assignors to Morphy-Richards Limited, St. Mary Cray, England. Electric toaster. 2,641,993, June 16.

Morphy-Richards Limited, assignee: *See*—
Morphy, Donal W., and Russell.

Morris, Rupert C., Berkeley, and J. L. Van Winkle, San Lorenzo, assignors to Shell Development Company, Emeryville, Calif. Organo diphosphine oxides and sulfides. 2,642,461, June 16.

Morrison, Charles A., Rochester, and F. M. Brown, Huntington Station, assignors to Eastman Kodak Company, Rochester, N. Y. Film-perforation pitch gauge. 2,641,956, June 16.

Morrison, James D., Medicine Hat, Alberta, Canada. Dental plugger. 2,641,836, June 16.

Morse Chain Company, assignee: *See*—
Riopelle, Earl F., and Hein.

Morway, Arnold J., Rahway, D. W. Young, Roselle, and D. L. Cottle, Highland Park, N. J., assignors to Standard Oil Development Company. Lubricating grease compositions. 2,642,397, June 16.

Motorola, Inc., assignee: *See*—
Beck, Charles E.

Mouzon, James C., Wyndmoor, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,642,530, June 16.

Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Organic thiocyanate herbicides. 2,642,353, June 16.

Mucher, George J., Rochester, assignor to Clarostat Mfg. Co., Inc., Dover, N. H. Switch. 2,642,506, June 16.

Mueller Co., assignee: *See*—
Mueller, Frank H., and Bowan.
Mueller, Frank H., and Tinker.

Mueller, Frank H., and E. E. Tinker, assignors to Mueller Co., Decatur, Ill. Temperature responsive relief valve for fluid heating systems. 2,642,229, June 16.

Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Valve structure. 2,642,257, June 16.

Mueller, Otto, Dearborn, Mich. Force applying tool. 2,641,942, June 16.

Muench, Walter, assignor to Walter Muench, Incorporated, Newark, N. J. Dressing fixture for contouring grinding wheels. 2,642,059, June 16.

Muench, Walter, Incorporated, assignee: *See*—
Muench, Walter.

Munta, Clarence L.: *See*—
Merritt, Glenn W., and Munta.

Murphy, Stephen J., assignor of one-sixth to E. L. Cattey, Torrington, Conn. Ball projector. 2,642,058, June 16.

Mussgiller, Johann F. W., deceased, Erlangen, Germany, by Werner Lüttgens, administrator, assignor to Klebes & Co., Erlangen, Germany. Pencil sharpener. 2,642,044, June 16.

Myers, Harold C.: *See*—
Dennis, Franklin L., King, and Myers.

Myers, Hubert A., North Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing and working plastic compounds. 2,641,800, June 16.

National Brass Company, assignee: *See*—
Young, Herbert.

National Malleable and Steel Castings Company, assignee: *See*—
Bucklus, Albert O.

National Newark and Essex Banking Company of Newark, The, executor: *See*—
Bryce, James W., and Blakely.

National Research Development Corporation, assignee: *See*—
Williams, Frederic C.

National Rubber Machinery Company, assignee: *See*—
Drew, John.

National Supply Company, The, assignee: *See*—
Knox, Donald G., and Lawrence.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Pietz, Ervin.

Naylor, Joseph F.: *See*—
Crosland, Edward M., and Naylor.

Naylor, Joseph F., Newton-le-Willows, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Dough break. 2,642,015, June 16.

Naylor, Joseph F., Newton-le-Willows, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Conveyor apparatus. 2,642,178, June 16.

Need, Waldo H., Gary, Ind. Hair clipper with improved reciprocable cutter blade. 2,641,833, June 16.

Negri, Mario, Rome, assignor to Ditta A. Gazzoni & Co., Bologna, Italy. Odontalgic device. 2,642,063, June 16.

Neher, Harry T.: *See*—
Bauer, La Verne N., Neher, and Van Horne.

Nekola, William J.: *See*—
Wehmiller, Frederick W., and Nekola.

Nelson, Noral A., Berkley, assignor to Harry Ferguson, Inc., Detroit, Mich. Earth-moving attachment for tractors. 2,641,854, June 16.

Neostyle, Incorporated, assignee: *See*—
Stone, Kenneth.

Neumager, Albert E. J. M., assignor to Varinyl, Montceaules-Mines, France. Producing stockings for varicose veins. 2,641,914, June 16.

Newark Stove Company, assignee: *See*—
Chesser, Cecil E.

Newcomb, Robert D., assignee: *See*—
Warner, Donald E.

Newey, Herbert A., Lafayette, and E. C. Shokal, Walnut Creek, assignors to Shell Development Company, Emeryville, Calif. Curing glycidyl polyethers with N,N-dialkyl-1,3-propanediamines. 2,642,412, June 16.

New Products Corporation, assignee: *See*—
Banker, Oscar H.

Newsome, James W., Belleville, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Converting crystalline alumina hydrate to alpha alumina. 2,642,337, June 16.

New York Air Brake Company, The, assignee: *See*—
Kirkham, Hall.

Niagara Packaging Machinery Corporation, assignee: *See*—
Richard, Charles F.

Nielsen, Morris L., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Fire-retarding coating composition composed of nitrogen-phosphorus compound with an aldehyde resin. 2,642,405, June 16.

Niles-Bement-Pond Company, assignee: *See*—
Barr, John M.
Ladrach, Aaron G.

Nolten, Jacobus, assignee: *See*—
Vonders, Karel.

Nopco Chemical Company, assignee: *See*—
Kapp, Roland, Chodroff, and Sofield.

North American Aviation, Inc., assignee: *See*—
Bussiere, George, Johnson, and Straub.

Norwood Company, The, assignee: *See*—
Bode, Robert G.

Nugey, Anthony L., Rahway, N. J. Neutralizing industrial waste. 2,642,334, June 16.

Nystedt, George, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dispenser for cylindrical articles. 2,642,326, June 16.

Offutt, George, and W. M. Briner, Streator, Ill., assignors to Owens-Illinois Glass Company. Truck indexing mechanism. 2,642,221, June 16.

Olin Industries, Inc., assignee: *See*—
Alderson, Dwight A., Wakefield, and Reichardt.
Reinhardt, Otto K., and Stapleton.
Reinhardt, Otto K., and Welsh.

Olson, Walter J., Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y. Grab. 2,642,307, June 16.

Olympus Optical Co., Ltd., assignee: *See*—
Oji, Tatsuro, Sugiura, and Fukami.

Omni Products Corporation, assignee: *See*—
Tomonari, Tsukumo, and Akaboshi.

On-A-Lite Corporation, assignee: *See*—
Judson, Albert L.

Opre, James H.: *See*—
McVey, Emmett E., and Opre.

Orel, Jaroslav, assignor to Meopta, národní podnik, Prerov, Czechoslovakia. Four-member photographic objective. 2,641,966, June 16.

Orfitelli, Michael A., Manchester, Conn. Means for making ice cream. 2,642,009, June 16.

Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Roll-stripping means for cementing machines. 2,642,032, June 16.

Owens-Illinois Glass Company, assignee: *See*—
Offutt, George, and Briner.

Ozalid Company Limited, assignee: *See*—
Easter, John W.

Pachmayr, Frank A., assignee: *See*—
Harris, Ralph E.

Page, Frederick W., Preston, and S. G. Hooker, Derby; said Page assignor to The English Electric Company Limited, London, and said Hooker assignor to Rolls-Royce Limited, Derby, England. Automatic fuel feed control system for aircraft power plants. 2,642,237, June 16.

Page, John H., assignor to The Shaw-Walker Company, Muskegon, Mich. Card sorting device. 2,642,066, June 16.

Pagendarm, Edward J.: *See*—
Baker, Thomas R., and Pagendarm.

Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Roller bearing. 2,642,322, June 16.

Parker, Robert S., Dover, N. J. Resilient brush and buffer holding handle. 2,641,786, June 16.

Parks, William A., Longview, Tex., assignor to Eastman Kodak Company, Rochester, N. Y. Gas separation by adsorption and preferential desorption. 2,642,153, June 16.

Parsons, George B., Baldwin, and D. Depew, Wyandanch, assignors to Fairchild Engine and Airplane Corporation, New York, N. Y. Laminating material and resulting product. 2,642,370, June 16.

Patla, Louis J., Elmwood Park, Ill. Ion trap. 2,642,546, June 16.

Paulette, Charles H., and J. Guns, assignors to Infilco Incorporated, Chicago, Ill. Two-stage aerobic biological sewage treating process and system. 2,642,394, June 16.

Pease, C. F., Company, The, assignee: *See*—
Brunk, Harold J.

Peavy, Clarence, Miami, Fla. Tile manufacturing machine. 2,641,819, June 16.

Pedersen, Cecil A.: *See*—
Wilhelm, Walter A., and Pedersen.

Pedley, Hilda C.: *See*—
Pedley, Howard L. and H. C., and Balluff.

Pedley, Howard L. and H. C., and C. E. Balluff, Des Plaines, Ill. Walking appliance. 2,642,074, June 16.

Peeler, Noble E., St. Paul, Minn. Hinge guard. 2,641,792, June 16.

Peirce, Thomas H., assignor to H. A. King, doing business as H. A. King Co., Detroit, Mich. Motor mounting. 2,642,240, June 16.

Pelcin, Albert L., Maple Heights, Ohio, assignor to The Eastern Malleable Iron Company, Naugatuck, Conn. Flush type door lock. 2,642,300, June 16.

Peper, Jan: *See*—
De Gier, Johannes, and Peper.

Perfect Circle Corporation, assignee: *See*—
Duesenberg, Denny D.
Teetor, Macy O.

Perkins, Bernon G., Kirkwood, assignor to Doane Agricultural Service, Inc., St. Louis, Mo. Farm building. 2,641,988, June 16.

Perry, Christine E., assignee: *See*—
Kimball, Raymond.

Perry, Warren R., Fredericksburg, Va. Tire casing spreader. 2,642,264, June 16.

Pestarini, Joseph M., Staten Island, N. Y. Electric motor of the metadyne type. 2,642,556, June 16.

Pfund, August H., Baltimore, Md., assignor to the United States of America as represented by the Secretary of War. Protecting lenses. 2,642,367, June 16.

Philco Corporation, assignee: *See*—
Albright, Robert B.

Phillips Petroleum Company, assignee: *See*—
Hogan, John P.
Mahan, John E., and Turk.
Studebaker, Merton L.

Phipps, Frank A., Avondale, assignor to C. H. Kruse, Kansas City, Mo. Hinge adjusting and bending tool. 2,641,946, June 16.

Picanol, Jaime, Zandberg, Zillebeke-lez-Ypres, Belgium. Frame construction for weaving looms. 2,642,092, June 16.

Picanol, Jaime, Zandberg, Zillebeke-lez-Ypres, Belgium. Picking shaft for weaving looms. 2,642,093, June 16.

Pietz, Ervin, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Shock mount. 2,642,252, June 16.

Pike, Ralph E., Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Complementary color blending. 2,642,404, June 16.

Pike, Robert D., Pittsburgh, Pa. Method of and apparatus for producing nitric oxide. 2,642,338, June 16.

Pike, Robert D., Greenwich, Conn. Production of concentrated fertilizer by base exchange. 2,642,355, June 16.

Pillsbury Mills, Inc., assignee: *See*—
Gale, Rowland A., and Haigh.

Pilsner, John F., Roscoe, Tex. Tractor mounted rotary chopper. 2,641,981, June 16.

Pipher, George J., assignor to Willson Products, Inc., Reading, Pa. Protective hood. 2,641,768, June 16.

Piros, John J., Homewood, assignor, by mesne assignments, to Sinclair Research Laboratories Inc., Harvey, Ill. Laboratory flash still for heavy oils. 2,642,388, June 16.

Pitts, William A., and C. M. Carothers, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Marine transfer ramp. 2,641,785, June 16.

Pittsburgh Engineering and Machine Company, assignee: *See*—
Leckrone, Roy J.

Platt, Samuel, San Francisco, Calif. Folding box locking structure. 2,642,218, June 16.

Plimmer, Alfred G., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. High-speed spindle construction. 2,641,970, June 16.

Plueddemann, Edwin P., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Preparation of organosilicon compounds. 2,642,447, June 16.

Poe, Howard W., Detroit, assignor to L. W. Westerville, Grosse Pointe, Mich. Fish lure. 2,641,862, June 16.

Pollak, Arthur: *See*—
Aries, Robert S., and Pollak.

Porges, Leo, and S. T. Sawyer, assignors to A. Johnson & Company (London) Limited, London, England. Distributing wax in cemented carbide powders. 2,642,230, June 16.

Porter, Finley R., Jr., Westfield, N. J., assignor to United States Rubber Company, New York, N. Y. Measuring instrument. 2,641,842, June 16.

Potts, Ernest L., assignor to Brown Oil Tools, Inc., Houston, Tex. Fluid motor having piston actuated pilot valve. 2,642,045, June 16.

Powers, James H., Westport, Conn., assignor to General Electric Company. Food waste comminuting unit. 2,642,233, June 16.

Preist, Donald H., Tiburon, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Radio-frequency generator. 2,642,533, June 16.

Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Switch control mechanism. 2,642,484, June 16.

Prohaska, James J.: *See*—
Lager, Eric W., Haase, and Prohaska.

Prossen, Louis F., Cliffside, N. J., assignor to Celanese Corporation of America, New York, N. Y. Carton. 2,642,183, June 16.

Pryne, Ralph, Pomona, Calif. Electrical fixture. 2,642,241, June 16.

Pukkila, Arnold O.: *See*—
Barnes, James I., and Pukkila.

Pummer, Leo, Chicago, Ill., assignor to McGraw Electric Company, Milwaukee, Wis. Housed spark-over gap. 2,642,549, June 16.

Puranen, Maunu, and A. A. Kahma, Helsinki, Finland. Inductive prospecting. 2,642,477, June 16.

Purcell, Lee T.: *See*—
Gehm, Harry W., and Purcell.

Puroiator Products, Inc., assignee: *See*—
Bell, Albert E.
Layte, Rainh R., and Bell.

Pyle-National Company, The, assignee: *See*—
McDowell, Thomas E., and Heebler.

Quinn, Aloysius J., North Bergen, N. J. Spring cushion assembly. 2,641,778, June 16.

Quirke, Alan T., Otunui, New Zealand. Removable handle assembly for power chain saws. 2,642,100, June 16.

Qvarfordt, Karl E. V.: *See*—
Anderson, Bengt R., and Qvarfordt.

Radabaugh, John M., Mount Vernon, Ohio. Abrading unit. 2,641,878, June 16.

Radio Corporation of America, assignee: *See*—
Epstein, David W.
Schroeder, Alfred C.

Randall, David I.: *See*—
Renfrew, Edgar E., and Randall.

Randall, David I., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Quaternary compounds derived from chloromethylated arylaminobenzanthrones. 2,642,443, June 16.

Randall, David I., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Chloromethylated aryl thioethers of the anthraquinone series. 2,642,444, June 16.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Articulated wiper blade. 2,641,789, June 16.

Raskin, Joseph, Brooklyn, N. Y. Hinge. 2,641,794, June 16.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Pressure governor. 2,641,871, June 16.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Hot-air furnace control. 2,642,227, June 16.

Raybestos-Manhattan, Inc., assignee: *See*—
Batchelor, Clyde S., and Cofek.

Raymond Engineering Laboratory, Inc., assignee: *See*—
Raymond, Grace L. and H. H.

Raymond, Grace L. and H. H., Berlin, assignors to Raymond Engineering Laboratory, Inc., Middletown, Conn. Coaster. 2,641,911, June 16.

Raymond, Horace H.: *See*—
Raymond, Grace L. and H. H.

Raymor, Willard: *See*—
Anderson, David E., Kolonick, and Raymor.

Raytheon Manufacturing Company, assignee: *See*—
Mofenson, Jack.

Raze, Douglas D., Minneapolis, Minn. Toy steering mechanism. 2,641,869, June 16.

Read Standard Corporation, assignee: *See*—
Glaze, Herbert L., and Beltz.
Whitfield, Joseph E.

Reed, Carl S., assignor to The Lummus Company, New York, N. Y. Control of flow of granular material. 2,642,206, June 16.

Reed, Clair S., assignor to Reynolds Spring Company, Jackson, Mich. Spring construction. 2,642,125, June 16.

Reed, George W.: *See*—
Dale, Vernon F., and Reed.

Reflector Hardware Corporation, assignee: *See*—
Samuels, Martin L.

Regalia, Gian C., Milan, Italy. Cutting machine for synthetic silk and rayon yarns. 2,642,135, June 16.

Regnier, Gerard M., Chicago, Ill., assignor to Capital Industrial Fabricators, Inc. Television cabinet back. 2,642,566, June 16.

Reichardt, Emerald P.: *See*—
Alderson, Dwight A., Wakefield, and Reichardt.

Reichertz, Paul P., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Determination of effective porosity of core samples. 2,641,924, June 16.

Reid, Thomas S.: *See*—
Ahlbrecht, Arthur H., Reid, and Husted.

Reinhardt, Otto K., West Haven, and J. Y. Welsh, Hamden, assignors to Olin Industries, Inc., New Haven, Conn. Dry cell. 2,642,470, June 16.

Reinhardt, Otto K., and T. C. Stapleton, West Haven, assignors to Olin Industries, Inc., New Haven, Conn. Dry cell. 2,642,471, June 16.

Renfrew, Edgar E.: *See*—
Randall, David I., and Renfrew.

Renfrew, Edgar E., Phillipsburg, N. J., and D. I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Chloromethylated arylaminobenzanthrones. 2,642,442, June 16.

Renzi, Saverio A., Jersey City, N. J. Bottle stopper and pourer. 2,642,207, June 16.

Research Corporation, assignee: *See*—
Backer, Philip C., and Van Hoesen.

Reynolds, Herbert G.: *See*—
James, Paul W., and Reynolds.

Reynolds Spring Company, assignee: *See*—
Reed, Clair S.

Rice, Elmo, and V. E. Fisher, Wichita, Kans. Garbage pail holder. 2,642,245, June 16.

Richard, Charles F., Williamsville, N. Y., assignor to Niagara Packaging Machinery Corporation. Bag packaging machine. 2,641,882, June 16.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Highland Park, Mich. Crop stripper for rotary rakes. 2,641,895, June 16.

Ricks, Bernard E., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Bearing assembly. 2,642,318, June 16.

Riddell, George, Brooklyn, N. Y., and H. A. Soucy, Fort Worth, Tex., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Dial telephone system-digit absorbing selector circuit. 2,642,498, June 16.

Riehl, William L., Rome, N. Y., assignor to Union Fork & Hoe Company, Columbus, Ohio. Pressure responsive combustion control apparatus. 2,642,128, June 16.

Riemann, Howard C., assignor to The Fulton Company, West Allis, Wis. Vehicle tow coupling. 2,642,295, June 16.

Rike, Howard A., Los Angeles, Calif. Thermal-sensitive actuator for fire alarms. 2,642,511, June 16.

Ringer, Luther: *See*—
Geldhof, Peter E., and Ringer.

Riopelle, Earl F., and C. E. Hein, Detroit, Mich., assignors to Morse Chain Company, Ithaca, N. Y. Flexible mounting for propeller fans. 2,641,910, June 16.

Riesberger, Arthur C., Jr.: *See*—
Christiansen, William S., and Riesberger.

Rittershausen, Ernst P.: *See*—
Bruins, Paul F., Wilkinson, and Rittershausen.

Rivers, Heyward, Augusta, Ga., assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Apparatus for manufacturing brick. 2,641,820, June 16.

Roberts, Charles B., trustee, assignee: *See*—
Illig, George D.

Robinson, Alfred K., Newport Beach, and W. J. Hoffert, Santa Ana, Calif. Multiple standard inversion frequency measuring system. 2,642,534, June 16.

Robinson, George B., Napa, Calif. Mechanical band. 2,641,769, June 16.

Roddy, Thomas C., Jr., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Hydrocarbon oil containing a mercaptobenzimidazole. 2,642,396, June 16.

Rodenhuis, Klaas, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device of the kind comprising an electronic tube having a ribbon-shaped beam which is deflected and held in different positions. 2,642,547, June 16.

Roehm, Erwin G., Norwood, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Machine tool control mechanism. 2,641,969, June 16.

Rogers, Francis H.: *See*—
Garland, Charles S., and Rogers.

Rohm & Haas Company, assignee: *See*—
Bauer, La Verne N., Neher, and Van Horne.

Rolls-Royce Limited, assignee: *See*—
Page, Frederick W., and Hooker.

Ronning, Martin: *See*—
Korsmo, Alfred, and Ronning.

Rosenstein, Charles, assignee: *See*—
Wright, Orell.

Rowe Manufacturing Co., Inc., assignee: *See*—
Gabrielsen, Christian.

Royle, Edwin B., assignor to The Elmco Corporation, Salt Lake City, Utah. Shaft mucker. 2,642,199, June 16.

Rubin, Herbert, New York, N. Y. Convertible punching bag mount. 2,642,287, June 16.

Rumberger, George G., Neenah, assignor to Marathon Corporation, Rothschild, Wis. Coating sheet material with wax. 2,642,366, June 16.

Rush, Thomas C., Mansfield, Mo. Blade mounting structure for linoleum and asphalt tile remover. 2,642,272, June 16.

Russell, Carl M.: *See*—
Horn, Henry J., and Russell.

Russell, James L., Sun Valley, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Echo distance measuring circuit. 2,642,562, June 16.

Russell, Robert C., Euclid, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Valve operating mechanism. 2,642,048, June 16.

Russell, Robert C., Euclid, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Valve operation compensating mechanism. 2,642,049, June 16.

Russell, Robert C., Euclid, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Valve mechanism. 2,642,050, June 16.

Russell, Robert C., Euclid, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Self-adjusting valve mechanism. 2,642,051, June 16.

Russell, William M.: *See*—
Morphy, Donal W., and Russell.

Ryan, Beatrice Z., executrix: *See*—
Ryan, George F.

Ryan & Burke Machine Co., Inc., assignee: *See*—
Ryan, George F.

Ryan, Charles J., Medford, assignor to Sylvania Electric Products Inc., Salem, Mass. Electrical crystal unit. 2,642,486, June 16.

Ryan, George F., deceased, South Peabody, Mass.; B. Z. Ryan, executrix, assignor to Ryan & Burke Machine Co., Inc., Lynn, Mass. Collapsible last. 2,641,782, June 16.

Rye, Oliver, assignee: *See*—
Causatin, William, and Gustafson.

Sager, Irving, New York, N. Y., assignor to the United States of America as represented by the Secretary of War. Gas tube protector circuit. 2,642,552, June 16.

Sampson, Frederick W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Swage riffing method. 2,641,822, June 16.

Samuels, Martin L., assignor to Reflector Hardware Corporation, Chicago, Ill. Length adjusting and attaching bracket. 2,642,249, June 16.

Sandahl, Sigurd: *See*—
Gothberg, Karl E. A., and Sandahl.

Sandoz Limited, assignee: *See*—
Seebeck, Ewald.

Saul, Joseph F., assignee: *See*—
Dapoz, Max.

Sasso, Maurice, Los Angeles, Calif. Connecting beams to girders. 2,641,829, June 16.

Sawyer, Frederick D., Wayne, assignor to Dearborn Motors Corporation, Birmingham, Mich. Hush and bog harrow. 2,641,884, June 16.

Sawyer, Roscoe H., Christiana, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxidizing iron halides to produce iron oxide and chlorine. 2,642,339, June 16.

Sawyer, Stanley T.: *See*—
Porges, Leo, and Sawyer.

Saywell Associates, assignee: *See*—
Saywell, Lawrence G.

Saywell, Lawrence G., San Mateo, assignor to Saywell Associates, South San Francisco, Calif. Sealing assembly. 2,642,298, June 16.

Schaefer Equipment Company, assignee: *See*—
Schaefer, Frederic.

Schaefer, Frederic, assignor to Schaefer Equipment Company, Pittsburgh, Pa. Apparatus for making U-shaped brake hangers. 2,642,112, June 16.

Scharf, Philip T., and W. J. Keenan, assignors to Eastman Kodak Company, Rochester, N. Y. Protective coatings for optical elements and applying them. 2,641,954, June 16.

Schaub, André H., Brodalen, Sweden. Card setting machine. 2,642,099, June 16.

Schiller, Charles, Elmont, N. Y. Gravity-actuated movable doll. 2,641,866, June 16.

Schiro, George, Chicago, Ill. Foot washer. 2,641,771, June 16.

Schlesinger, Arthur H.: *See*—
Mowry, David T., and Schlesinger.

Schoen Products Company, assignee: *See*—
Jaros, Edward F.

Schollenberger, Charles S.: *See*—
Moringstar, Marion G., Schollenberger, and Stueber.

Schroeder, Alfred C., Feasterville, Pa., assignor to Radio Corporation of America. Component color separator. 2,642,487, June 16.

Schroeder, Alfred C., Feasterville, Pa., assignor to Radio Corporation of America. Mass spectrometer. 2,642,535, June 16.

Schroeder, William E.: *See*—
Sperling, Arthur F., and Schroeder.

Schroeder, William E., Hollywood, Calif. Female breast support. 2,641,763, June 16.

Schultz, August L., Mitchell, S. Dak. Knee brace or stabilizer. 2,641,761, June 16.

Schultz, Sidney J.: *See*—
Mackinney, Herbert W., and Schultz.

Scott, Thomas R.: *See*—
May, Winston E., and Scott.

Scott, Wylmer L., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Making fiberboard from groundwood. 2,642,359, June 16.

Seebeck, Ewald, assignor to Sandoz Limited, Basel, Switzerland. Preparing crystalline active principle from allium species. 2,642,374, June 16.

Seeley, E. E., Company, Incorporated, assignee: *See*—
Stier, Hugh A.

Seemuller, Frank G., Philadelphia, Pa. Can opener. 2,642,203, June 16.

Segsworth, Robert S., Toronto, Ontario, Canada. Electronic bit tester. 2,642,482, June 16.

Seiden, Herman L.: *See*—
Moloney, Raymond T., and Seiden.

Seidman, Martin, Badger, and K. P. Link, Middleton, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Chemical compounds and preparing the same. 2,642,441, June 16.

Semon, William P., Manhasset, N. Y. Suction fastening device. 2,642,248, June 16.

Seniff, Russell W.: *See*—
Lasky, Wayne E., and Seniff.

Servomechanisms, Inc., assignee: *See*—
Feinstein, Samuel.

Settles, James C., and L. E. Furniss, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Railway truck shock absorber mounting. 2,642,008, June 16.

Severin, Gordon H., Oklahoma City, Okla. Folding towel bar. 2,642,193, June 16.

Shamah, Israel, New York, N. Y., assignor to Ismah Corporation of New York. Mercury or liquid contact switch. 2,642,512, June 16.

Shave, Ralph E. J., assignor to J. Stone & Company Limited, London, England. Indicator for eutectic coolers. 2,642,480, June 16.

Shaw-Walker Company, The, assignee: *See*—
Page, John H.

Shell Development Company, assignee: *See*—
Cheney, Harry A., Fairbairn, and Davis.
Fetterly, Lloyd C.
Garner, Philip J., and Miles.
Kolb, Robert H.
Morris, Rupert C., and Van Winkle.
Newey, Herbert A., and Shokal.

Sherman, Harry, Brooklyn, assignor to H. and S. Sherman, doing business as the Sherman Tool Die and Metal Stamping Co., New York, N. Y. Making andiron legs. 2,642,024, June 16.

Sherman, Shimen: *See*—
Sherman, Harry.

Sherman Tool Die and Metal Stamping Co., The, assignee: *See*—
Sherman, Harry.

Shine, Thomas, Coronado, assignor to G. G. Ellinwood, San Diego, Calif. Garden hose reel. 2,642,312, June 16.

Shokal, Edward C.: *See*—
Newey, Herbert A., and Shokal.

Short, Oliver A.: *See*—
Beatty, William R., and Short.

Shurts, Wilbur F.: *See*—
Black, James B., and Shurts.

Sievert, Charles W., assignor to F. W. Sievert, Los Angeles, Calif. Gas fueled combustion chamber and air inlet baffle. 2,642,127, June 16.

Sievert, Frederick W., assignee: *See*—
Sievert, Charles W.

Simmons, Lovel R., Jackson, Miss. Guide sheave arrangement for control cable extending between tractor and trailer vehicles connected by a weight-transferring hitch. 2,642,293, June 16.

Simon, Eli, Los Angeles, and F. W. Thomas, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Cellular plastics containing saturated and unsaturated polyester resins. 2,642,403, June 16.

Sinclair Research Laboratories Inc., assignee: *See*—
Piros, John J.

Singer Manufacturing Company, The, assignee: *See*—
Breul, Fredric W.
Enos, John P.
Johnson, Ralph E.

Sizer, Albert W., Hessle, England. Extrusion machine for molding pellets and the like from plastic substances. 2,642,011, June 16.

Sjostrom, Robert L., Andover, Mass. Spool stripper. 2,641,821, June 16.

Skelton, Jack A., assignor to Southern Mills, Inc., Atlanta, Ga. Fastening means for ironer roll covers. 2,641,824, June 16.

Slaughter, Gibbs, M.: *See*—
Cushing, Ivan E., and Slaughter.

Slowey, Herbert J., Portage, Wis. Headrest for vehicles. 2,642,124, June 16.

Smith, Alonzo L., Houston, Tex. Core analysis. 2,641,922, June 16.

Smith, Bernard W., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Corona free multiplier. 2,642,513, June 16.

Smith, Edward W., Melrose Highlands, Mass. Apparatus for generating large mechanical vibrations. 2,642,545, June 16.

Smith, Eugene J., assignor of twenty per cent to L. Smith, Springfield, Ohio. Wheel extricating attachment and cable. 2,642,235, June 16.

Smith, Kline & French Laboratories, assignee: *See*—
Ullyot, Glenn E.

Smith, Leonard, assignee: *See*—
Smith, Eugene J.

Smith, Paul V., Jr.: *See*—
Mikeska, Louis A., and Smith.

Smith, Reginald S.: *See*—
Coolidge, Roger S., Keely, Smith, and Anderson.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Washing machine with rotatable tub having a centrifugally operated valve. 2,641,918, June 16.

Smyth, George F., assignee: *See*—
Frick, Robert P.

Societe Des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Chevalier, Pierre J.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Barnes, James I., and Pukkila.
Bruins, Paul F., Wilkinson, and Rittershausen.
Dennis, Franklin L., King, and Myers.
Francis, Alfred W.
Gorin, Everett.
Gorin, Everett, and Kinney.
Reichertz, Paul P.

Sofiel Robert O.: *See*—
Fritschi, Walter W., Soffel, and Weaver.

Sofield, Le Roy: *See*—
Kapp, Roland, Chodroff, and Sofield.

Sollinger, Ferdinand P., Paterson, N. J., assignor to Curtiss-Wright Corporation. Fluid pressure speed sensing device. 2,642,275, June 16.

Sommers Bros. Mfg. Co., assignee: *See*—
Sommers, Carl J.

Sommers, Carl J., assignor to Sommers Bros. Mfg. Co., St. Louis, Mo. Electroplating apparatus. 2,642,392, June 16.

Sonnberger, Rudolph, assignor to R. J. Ederer Company, Chicago, Ill. Knot and ¾. 2,641,951, June 16.

Soucy, Harold A.: *See*—
Riddell, George, and Soucy.

Southern Mills, Inc., assignee: *See*—
Skelton, Jack A.

Sparks-Withington Company, assignee: *See*—
Johnson, Lloyd E.
Spears, Cecil J.: *See*—
Spears, Leonard E. and C. J.
Spears, Leonard E. and C. J., Enfield, N. C. Cotton barvesting machine. 2,641,891, June 16.
Specialties Development Corporation, assignee: *See*—
Helzer, Edward J.
Spector, Sam, Shaker Heights, and G. J. Teplanszki, Warrensville Heights, assignors to Tilt-Type Products, Inc., Cleveland, Ohio. Window frame tear-off flange. 2,641,805, June 16.
Sperling, Arthur F., Milwaukee, Wis., and W. E. Schroeder, Westmont, assignors to Samuel M. Langston Co., Camden, N. J. Apparatus for cutting and stacking sheets. 2,641,974, June 16.
Sperry Corporation, The, assignee: *See*—
Goldstein, Raymond.
Zaslavsky, Sam, and Zanichkowsky.
Sprinkle, Foster C., Winston-Salem, N. C. Toothbrush cabinet. 2,642,331, June 16.
Stamicarbon N. V., assignee: *See*—
Fontein, Freerk J.
Standard Oil Development Company, assignee: *See*—
Bradley, John M.
Cohen, Charles A., and Knoth.
Corner, Eugene S., and Lynch.
Griffin, Harold F., and Wright.
Heigl, John J.
Lippincott, Samuel B.
Martin, Homer Z.
Mayer, Ivan, and Johnson.
Mikeska, Louis A., and Smith.
Morway, Arnold J., Young, and Cottle.
Pitts, William A., and Carothers.
Stanin, Theodore E.: *See*—
Dickey, Joseph B., Stanin, and Coover.
Stanin, Theodore E., and J. B. Dickey, Rochester, N. Y., and H. W. Coover, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Stabilized solutions of acrylonitrile polymers and stabilized solvent. 2,642,408, June 16.
Stanolind Oil and Gas Company, assignee: *See*—
Bedford, Charles F.
Clark, Joseph B.
Stelts, Alfred, Jr., Grekel, Eliot, and Weaver.
Stapleton, Thomas C.: *See*—
Reinhardt, Otto K., and Stapleton.
Stehlin, Theodore A., Pasadena, Calif. Valve. 2,642,256, June 16.
Stein, Jack S.: *See*—
Lubin, Earl O., and Stein.
Stein, Samuel F., Milton, Pa. Garment cuff. 2,641,765, June 16.
Steinschlaeger, Michael, London, England. Low-temperature carbonization of carbonaceous material. 2,642,387, June 16.
Stelts, Alfred, Jr., H. Grekel, and T. Q. Eliot, Tulsa, Okla., and J. C. Weaver, Jr., Brownsville, Tex., assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Distillation of amyl alcohols from ketone-containing mixtures. 2,642,388, June 16.
Stephans, J Larry, St. Albans, N. Y., assignor, by mesne assignments, to International Projector Corporation, Bloomfield, N. J. Adjustable support stand. 2,642,246, June 16.
Sterling Drug Inc., assignee: *See*—
Clinton, Raymond O., and Laskowski.
Stevens, John C., assignor to Leupold & Stevens Instruments, Inc., Portland, Oreg. Radio reporting precipitation gauge. 2,642,564, June 16.
Stickelber, Merlin A., Kansas City, Mo., assignor to Stickelber & Sons, Inc. Dough sheeting device for transverse sheeting. 2,642,012, June 16.
Stickelber & Sons, Inc., assignee: *See*—
Stickelber, Merlin A.
Stier, Hugh A., Fairfield, assignor to E. E. Seeley Company, Incorporated, Bridgeport, Conn. Buffing composition for metals and making same. 2,642,348, June 16.
Stoddard, Hart A., assignee: *See*—
Fitzgerald, Robert L.
Stoeckel, Albert L., assignor to Wean Equipment Corporation, Euclid, Ohio. Machine for making wire fabric. 2,642,098, June 16.
Stone, Bertram M., and R. Glimont, Brooklyn, assignors to The Emil Greiner Company, New York, N. Y. Pressure-tight stopcock adapter. 2,642,258, June 16.
Stone, J., & Company Limited, assignee: *See*—
Shave, Ralph E. J.
Stone, Kenneth, Longmeadow, Mass., assignor to Neostyle, Incorporated, Chicago, Ill. Folding mechanism. 2,641,880, June 16.
Story, Paul E.: *See*—
Horner, Albert, and Story.
Stranberg, William C.: *See*—
Lamb, Miles A., Klein, Stranberg, and Frankowski.
Straub, Joseph E.: *See*—
Bussiere, George, Johnson, and Straub.
Strauss, Ray C., Ann Arbor, Mich. Motor control. 2,642,166, June 16.
Straw, Clayton, Henniker, N. H., assignor to H. R. Davis, Jr., Winchester, Mass. Machine for making paper boxes. 2,641,973, June 16.
Strong, Cole Y., Albuquerque, N. Mex. Presetting and quick operating valve regulator control. 2,642,083, June 16.
Strobel, John R.: *See*—
McDonald, Angus, and Strobel.
Strother, Fred P., Old Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y. Indicating and recording device for yarn diameters. 2,641,960, June 16.
Stuart, John R., Farwell, Mich. Bird dog training device. 2,642,036, June 16.
Studebaker, Merton L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pelleting of carbon black. 2,642,343, June 16.
Stueber, Grant E.: *See*—
Morningstar, Marion G., Schollenberger, and Stueber.
Sudbeax, Steve, New York, N. Y. Combined cap and dispenser for perfume bottles. 2,641,788, June 16.
Sugiura, Mutsuo: *See*—
Uji, Tatsuro, Sugiura, and Fukami.
Sulzer, John H.: *See*—
Butterfield, Louis B., and Sulzer.
Sun Oil Company, assignee: *See*—
Jones, Jack W.
Swanson, Edward W., assignor to Admiral Corporation, Chicago, Ill. Support for sound-reproducing apparatus. 2,642,327, June 16.
Swezey, Arthur W., Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich. Control of aquatic plants. 2,642,351, June 16.
Swezey, Arthur W., Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich. Control of aquatic weeds. 2,642,352, June 16.
Swift & Company, assignee: *See*—
Lager, Eric W., Haase, and Prohaska.
Swonger, Cecil C., St. Mary's, Ohio. Clamp-on anchor line sheave for small boats. 2,642,025, June 16.
Sylvania Electric Products Inc., assignee: *See*—
Ryan, Charles J.
Syracuse, Frances P., Los Angeles, Calif. Shoulder bag strap keeper. 2,641,760, June 16.
Taber, George H., Elmira, N. Y. Laboratory apparatus for demonstrating and interpreting gauge tests of wheels. 2,641,851, June 16.
Taborski, Alfred F., Buffalo, N. Y. Necktie or similar article. 2,641,766, June 16.
Tack, Carl E., Chicago, Ill., F. E. Bachman, St. Louis, Mo., and F. H. Kayler, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill. Draft arrangement. 2,642,195, June 16.
Talmage, John H., and R. W. Finley, assignors to Diebold, Incorporated, Canton, Ohio. Separator sheet for filing appliances. 2,642,067, June 16.
Tappan Stove Company, The, assignee: *See*—
Mayer, Charles M.
Taylor, Erle W.: *See*—
Kenyon, William O., Waugh, and Taylor.
Taylor, Ralph E., Cleveland Heights, assignor to The Enamel Products Company, Cleveland, Ohio. Edge trim corner construction for table tops or the like. 2,642,326, June 16.
Teague, Walter D., Jr., Alpine, and E. A. Volk, Jr., Hasbrouck Heights, assignors to Bendix Aviation Corporation, Teterboro, N. J. Self-contained power unit. 2,642,543, June 16.
Teall, Oliver E., Phoenix, assignor of one-third to W. Edds, Seneca Falls, and one-third to D. Crutchley, Cicero, N. Y. Web interfolding apparatus and method. 2,642,279, June 16.
Teetor, Marcy O., New Orleans, La., assignor to Perfect Circle Corporation, Hagerstown, Ind. Piston ring assembly. 2,642,324, June 16.
Temple, Phillip, Williams Lake, British Columbia, Canada. Wall-outlet box. 2,642,201, June 16.
Templeton, John B., Dallas, Tex. Bridge construction. 2,641,784, June 16.
Tennet, William: *See*—
Berlindel, Matthew, and Tennet.
Teplanszki, George J.: *See*—
Spector, Sam, and Teplanszki.
Terry, Victor J., and R. Kelly, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric power supply equipment. 2,642,558, June 16.
Texas Company, The, assignee: *See*—
Kreuz, Kenneth L., and Hurd.
Roddy, Thomas C., Jr.
Thalmann, Emil, Kobel, Uzwil, assignor to G. Buhler, Uzwil, Switzerland. Die-head gasket for spaghetti extrusion presses. 2,642,016, June 16.
Thiebaud, Henry, assignee: *See*—
Dapoz, Max.
Thomas, Frank W.: *See*—
Simon, Eli, and Thomas.
Thompson Products, Inc., assignee: *See*—
Anderson, David E., Kolonick, and Raynor.
Ricks, Bernard E.
Thoreson-McCosh, Inc., assignee: *See*—
Wilson, Oran C.
Thorp, Arthur G., II, Swarthmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Blade apparatus. 2,642,263, June 16.

Tigert, Clyde R., and D. E. Finnicum, Upland, Calif. Metering and timing controller for sprinkling systems. 2,642,076, June 16.
Tilt-Type Products, Inc., assignee: *See*—
Spector, Sam, and Teplanszki.
Tinker, Earl E.: *See*—
Mueller, Frank H., and Tinker.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device for electric wires. 2,641,808, June 16.
Tinnerman Products, Inc, assignee: *See*—
Hartman, Richard A.
Tinnerman, George A.
Tishler, Max: *See*—
Weijlard, John, and Tishler.
Tisot, Peter R.: *See*—
Horne, Joseph W., and Tisot.
Tobias, Herrmann B., Washington, D. C. Collapsible metal shelter. 2,642,162, June 16.
Toledo Scale Company, assignee: *See*—
Weckerly, Mark A.
Tomonari, Tsukumo, Osaka, and M. Akaboshi, Kurasbiki, Japan, assignors of one-fourth to Omni Products Corporation, New York, N. Y. Spinning polyvinyl alcohol fibers. 2,642,333, June 16.
Tracerlab, Inc., assignee: *See*—
Young, John F.
Trico Products Corporation, assignee: *See*—
Rappl, Anton.
Tronics, Inc., assignee: *See*—
Geiger, Willard L., and Wescott.
Truscon Steel Company of Canada, Limited, assignee: *See*—
Adams, Stafford M. S.
Turk, Stanley D.: *See*—
Mahan, John E., and Turk.
Turnbull, Frederick M., assignee: *See*—
Brown, Frank E.
Turner, Neil H., and L. N. Lloyd, Scunthrope, England; said Turner assignor to said Lloyd. Embossing machine for stamping numbers on slabs or the like. 2,641,996, June 16.
Turner, William F., Arlington, Va. Copyholder and line indicator. 2,642,040, June 16.
Twin Disc Clutch Company, assignee: *See*—
Black, James B., and Shurta.
Twist, Lee, Huntington Park, Calif. Vehicle direction signal. 2,642,489, June 16.
Uji, Tatsuro, Ohmiya, Saitama Prefecture, M. Sugiura, Setagaya, Tokyo, and M. Fukami, Shibuya, Tokyo, assignors to Olympus Optical Co., Ltd., Tokyo, Japan. Camera for taking photographs of inner wall of cavity of human or animal bodies. 2,641,977, June 16.
Ullyot, Glenn E., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. 1 - keto - 3 - butyl - 4-hydroxy 1,2,3,4 - tetrahydroisoquinoline. 2,642,431, June 16.
Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Union Carbide and Carbon Corporation, assignee: *See*—
Mackinney, Herbert W., and Schultz.
Union Fork & Hoe Company, assignee: *See*—
Riehl, William L.
United Shoe Machinery Corporation, assignee: *See*—
Ashley, John W., and Leahy.
Leahy, James F., and Burke.
United Specialities Company, assignee: *See*—
Drezner, John J.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Baker, William R.
Kelley, George O.
United States Rubber Company, assignee: *See*—
Porter, Finley R., Jr.
United States Steel Corporation, assignee: *See*—
Carroll, Kenneth G., and Miller.
Dearing, Edmund R.
Dodson, Jaydee I.
Haddad, George J., and Wells.
Kennedy, Truman H., and Webb.
Marburg, Edgar.
Whittaker, James E.
Universal Oil Products Company, assignee: *See*—
Berger, Charles V., and Haensel.
Cox, Maurice W.
Urbach, Frans, assignor to Eastman Kodak Company, Rochester, N. Y. Thermal radiography using phosphors. 2,642,538, June 16.
Urschel, Joe R., Valparaiso, Ind. Machine for removing green corn from the cob. 2,642,068, June 16.
Vähl, László, Muiderberg, assignor to Werkspoor N. V., Amsterdam, Netherlands. Crystallising sodium carbonate. 2,642,342, June 16.
Vahle, Raymond, Tappan, assignor, by mesne assignments, to Robert Gair Company, Inc., New York, N. Y. Carton feeding machine. 2,642,196, June 16.
Valenza, Joseph M., Houston, Tex. Magnifying attachment for lamp shades. 2,641,965, June 16.
Van Bruggen, John T.: *See*—
West, Edward S., and Van Bruggen.
Vandermeer, Myrton L., Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Mirror and light beam wheel checking apparatus and method of correcting for run-out in employing same. 2,641,957, June 16.
Van Dyke, William, Averill Park, N. Y. Shaft tightener insert. 2,642,321, June 16.
Van Hoesen, Harold E.: *See*—
Backer, Philip C., and Van Hoesen.
Van Horne, William L.: *See*—
Bauer, La Verne N., Neber, and Van Horne.
Van Huffel, Isadore J., assignor to Van Huffel Tube Corporation, Warren, Ohio. Straightening apparatus. 2,642,115, June 16.
Van Huffel Tube Corporation, assignee: *See*—
Van Huffel, Isadore J.
Vanity Corset Company, Inc., assignee: *See*—
Greco, Ralph.
Van Kinkle, Edward, Flint, Mich. Golf game and practice apparatus. 2,641,932, June 16.
Van Kinkle, Edward, Flint, Mich. Golf game and practice device. 2,641,933, June 16.
Van Santen, Jan H.: *See*—
Hügel, Roelof D., Jonker, and van Santen.
Van Winkle, John L.: *See*—
Morris, Rupert C., and Van Winkle.
Varingl, assignee: *See*—
Neumager, Albert E. J. M.
Ventura Farms Frozen Foods, Incorporated, assignee: *See*—
Grether, Tobias.
Verveen, Dirk, Aerdenhout, Netherlands. Device for measuring the principal dimensions of erythrocytes. 2,641,959, June 16.
Vicars, T. & T., Limited, assignee: *See*—
Crosland, Edward M., and Naylor.
Naylor, Joseph F.
Villemejane, Jacques, assignor of one-half to Compagnie du Celluloid Petitcollin-Oyonnithe, Paris, France. Walking figure toy. 2,641,864, June 16.
Visch, Henri M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Inductance coil of the sliding core type. 2,642,559, June 16.
Vock, William A.: *See*—
Grable, Donovan B., and Vock.
Volk, Emil A., Jr.: *See*—
Teague, Walter D., Jr., and Volk.
Vonders, Karel, assignor of eighty per cent to J. Nolten, Holten, and twenty per cent to W. F. H. Zegers, The Hague, Netherlands. Method and machine for removing fibers from plant stems. 2,641,803, June 16.
Voskikian, Joseph: *See*—
Voskikian, Samuel P., M., and J.
Voskikian, Manuel: *See*—
Voskikian, Samuel P., M., and J.
Voskikian, Samuel P., M., and J., Melrose, Pa. Mop having sectional head with contrasting cleaning material. 2,641,787, June 16.
Vosper, Waynard R., Guilford, Conn. Self-centering cutter. 2,642,137, June 16.
Vulcan Corporation, assignee: *See*—
Clausing, Henry G.
Wagner, Harold H., Peoria, Ill., and E. B. Williams, Indianapolis, Ind., assignors to Caterpillar Tractor Co., Peoria, Ill. Engine crankcase breather and oil separator. 2,642,052, June 16.
Wakefield, Ralph V.: *See*—
Alderson, Dwight A., Wakefield, and Reichardt.
Walder, Robert R., Detroit, Mich. Automatic transmission. 2,641,936, June 16.
Wales, Stanley G., Jr., assignee: *See*—
Holm, Julius A.
Wallace, De Yarman, Canfield, and L. R. Mansell, Poland, Ohio. Coating metal articles by dipping in bath of dissimilar molten metal. 2,642,368, June 16.
Wallace, Milner W., Westwood, assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Cold cathode discharge tube. 2,642,548, June 16.
Waltman, Adolf E., Paso Christian, assignor of one-third to E. P. Guice and one-third to E. E. Hickey, Ocean Springs, Miss. Shrimp assimilating machine. 2,641,797, June 16.
War, United States of America as represented by the Secretary of, assignee: *See*—
Pfund, August H.
Sager, Irving.
Warner, Donald E., assignor to R. D. Newcomb, Los Angeles, Calif. Adjustable speed induction motor. 2,642,555, June 16.
Wasser, Joseph A., Kirkwood, assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Temperature responsive actuator. 2,642,309, June 16.
Waterman, Herbert C., Chicago, Ill., assignor to Bendix Aviation Corporation, South Bend, Ind. Valve. 2,642,077, June 16.
Watkins, Wilbur J., Long Beach, Calif. Toy gun. 2,642,037, June 16.
Waugh, George P.: *See*—
Kenyon, William O., Waugh, and Taylor.
Waugh, George P., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of polyvinyl alcohol. 2,642,419, June 16.
Wean Equipment Corporation, assignee: *See*—
Donald, William P.
Stoeckel, Albert L.
Weatherhead Company, The, assignee: *See*—
Lindgren, George O. R.

Weaver, Allan: *See*—
Fritschi, Walter W., Soffel, and Weaver.
Locke, George A., and Weaver.

Weaver, Joe C., Jr.: *See*—
Steltz, Alfred, Jr., Grekel, Eliot, and Weaver.

Webb, Samuel: *See*—
Kennedy, Truman H., and Webb.

Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,642,277, June 16.

Weeman, Herman C., assignee: *See*—
Davis, Rooney W.

Wee Moderns, Inc., assignee: *See*—
Fischer, Willard H.

Weeber, Karl W., Minneapolis, Minn. Greenhouse ridge assembly. 2,642,018, June 16.

Wehmiller, Frederick W., Ladue, and W. J. Nekola, Normandy, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Device for transferring traveling articles. 2,642,173, June 16.

Weijlard, John, and M. Tishler, Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Quaternary ammonium ethyl thiocarbamates. 2,642,428, June 16.

Weijlard, John, and M. Tischler, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Thiolurethane quaternary ammonium salts and preparing them. 2,642,450, June 16.

Weijlard, John, Maplewood, and M. Tishler, Westfield, assignors to Merck & Co., Rahway, N. J. Thiolurethanes and preparing. 2,642,451, June 16.

Weinberg, Marvin, New York, N. Y. Radiation protective jacket. 2,642,342, June 16.

Wellman, Walter C., assignor to White Products Company, Middleville, Mich. Anodic rod holder. 2,642,391, June 16.

Wells, Harold W., Youngstown, Ohio. Air-operated apparatus for removing dust accumulations from regenerative checkerwork. 2,641,791, June 16.

Wells, Joseph H.: *See*—
Haddad, George J., and Wells.

Welsh, Jay Y.: *See*—
Reinhardt, Otto K., and Welsh.

Wengel, Raymond W., assignor to Eastman Kodak Company, Rochester, N. Y. Film drive compensatory mechanism. 2,641,961, June 16.

Wenning, Heinrich, Marl in Westphalia, assignor to Chemische Werke Huls Gesellschaft mit beschränkter Haftung, Kreis Recklinghausen, Germany. Production of polyacrylic nitrile. 2,642,418, June 16.

Werkspoor N. V., assignee: *See*—
Vähl, László.

Werne, Carl S. L., Gothenburg, Sweden. Screw-operated vise having wedge clutch. 2,641,947, June 16.

Werts, Richard A., Long Beach, Calif. Automatic liquid sampler. 2,641,934, June 16.

Wescott, George A., Jr.: *See*—
Geiger, Willard L., and Wescott.

West, Edward S., and J. T. Van Bruggen, Portland, Oreg., assignors to Feed Products Company, Petaluma, Calif. Producing thyroprotein. 2,642,426, June 16.

West, James M., Fayetteville, Tenn. Control mechanism for well pumps. 2,642,507, June 16.

West, Joseph, Finchley, London, and J. Brookabank, Morden, England. Harmonica. 2,641,950, June 16.

Westcott, William B., Jr., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Shock strut. 2,642,278, June 16.

Western Electric Company, Incorporated, assignee: *See*—
Barrett, Claudius S.
Butterfield, Louis B., and Sulzer.
McLean, Vincent.
Myers, Hubert A.
Smith, Bernard W.

Westerville, Lawrence W., assignee: *See*—
Poe, Howard W.

Westinghouse Electric Corporation, assignee: *See*—
Eames, William F.
Koch, Gustav H.
Nystedt, George.
Thorp, Arthur G., II.
Wey, George J.
Wilhelm, Wilbur F., Jr., and Gilbert.

Weston Electrical Instrument Corporation, assignee: *See*—
Kebbon, Earl R.

Wey, George J., Jersey City, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Mounting for electrical instruments. 2,642,483, June 16.

Wheaton, Robert M., and D. F. Harrington, assignors to The Dow Chemical Company, Midland, Mich. Making anion-exchange resins. 2,642,417, June 16.

Wheeler, William H.: *See*—
Meek, George W., and Wheeler.

Whirlpool Corporation, assignee: *See*—
Geldhof, Peter E., and Ringer.

Whisler, Thomas C., Alameda, Calif., assignor to American Brake Shoe Company, New York, N. Y. Dredge bucket construction. 2,641,855, June 16.

White, Dan, Cleveland, Ohio. Special boring bar. 2,641,940, June 16.

White, Halbert C., assignor to The Dow Chemical Company, Midland, Mich. Production and purification of amino acids. 2,642,459, June 16.

White, Jud E., assignor to Martin-Decker Corporation, Long Beach, Calif. Apparatus for relaying a control function through compressed air. 2,642,075, June 16.

Whitehouse, Karl C.: *See*—
Lecher, Hans Z., and Whitehouse.

Whitehouse Products, Inc., assignee: *See*—
Lawson, William L.

White Products Company, assignee: *See*—
Wellman, Walter C.

Whitfield, Joseph E., Erie, Pa., assignor to Read Standard Corporation. Blower intake port. 2,642,003, June 16.

Whitney, Frank A., Holt, Mich. Salt spray. 2,641,989, June 16.

Whitney, Lois L., Chicago, Ill. Drapery crane. 2,642,192, June 16.

Whitney, Lois L., Chicago, Ill. Drapery crane. 2,642,192, June 16.

Whittaker, James E., Superior, Wis., assignor to United States Steel Corporation. Billet marker. 2,641,995, June 16.

Wiekling, William C., Woodhaven, assignor to R. Hoe & Co., Inc., New York, N. Y. Ink drying equipment for web printing machines. 2,642,000, June 16.

Wilcox, Albert C., Chicago, Ill. Automatic water-controlled electric drip coffee maker. 2,641,091, June 16.

Wild, Rudolf F., Wilmington, Del., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature measuring apparatus. 2,641,931, June 16.

Wilhelm, Pearl E., administratrix: *See*—
Wilhelm, Walter A., and Pedersen.

Wilhelm, Richard J., administrator: *See*—
Wilhelm, Walter A., and Pedersen.

Wilhelm, Walter A., deceased, and C. A. Pedersen, Salina, Kans., P. E. and R. J. Wilhelm, administrators of said W. A. Wilhelm. Illuminated scoring device. 2,641,857, June 16.

Wilhelm, Wilbur F., Jr., Prospect Park, Pa., and E. Gilbert, Washington, D. C., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Lubrication apparatus. 2,642,155, June 16.

Wilken, Carl E., New Lebanon, assignor to The Lau Blower Company, Dayton, Ohio. Stamped metal pulley and manufacture thereof. 2,641,935, June 16.

Wilkinson, Edwin P.: *See*—
Bruins, Paul F., Wilkinson, and Rittershausen.

Williams, Edred B.: *See*—
Wagner, Harold H., and Williams.

Williams, Frederic C., Timperley, assignor to National Research Development Corporation, London, England. Electronic information storage device. 2,642,550, June 16.

Williams, Rollo G., Great Neck, N. Y., assignor, by mesne assignments, to Duro-Test Corporation, North Bergen, N. J. Lighting control apparatus. 2,642,553, June 16.

Willson Products, Inc., assignee: *See*—
Boyer, Charles J.
Pipher, George J.

Wilm, Carl C., assignor to Magnex, Inc., Denver, Colo. Pot holder. 2,641,793, June 16.

Wilson, James H., Summit, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Means and method for testing terminal banks. 2,642,481, June 16.

Wilson, Oran C., Sandusky, Ohio, assignor, by mesne assignments, to Thorsen-McCosh, Inc., Detroit, Mich. Apparatus for drying granular material. 2,641,848, June 16.

Wilson, Theodore J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electromagnetic switch. 2,642,508, June 16.

Wince, Vearl S., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Luminaire of the wall mounted type. 2,642,523, June 16.

Winger, Stover C., Los Angeles, assignor of 15 per cent to John Flam, Beverly Hills, Calif. Float mechanism for controlling flush tank valves. 2,642,081, June 16.

Winslow, Field H., Springdale, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Silyl aromatic compounds. 2,642,415, June 16.

Wisconsin Alumni Research Foundation, assignee: *See*—
Seidman, Martin, and Link.

Wishart, Herbert W., University City, Mo., assignor to Curtiss-Wright Corporation. Hydraulic shutoff valve. 2,642,079, June 16.

Woods, John P., Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Shot hole array for eliminating horizontally traveling waves. 2,642,146, June 16.

Woolcock, James W., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Treatment of gaseous mixtures. 2,642,154, June 16.

Woolley, William J., Chicago, Ill., assignor to Maid-O-Mist, Inc. Automatic hygroscopic air vent valve with capillary drain tube. 2,642,078, June 16.

Worley, Milton S., Seattle, Wash. Cross-country navigational instrument. 2,641,844, June 16.

Wright, Gilbert F., Renton, assignor to Boeing Airplane Company, Seattle, Wash. Antechamber type spark plug mechanism. 2,642,054, June 16.

Wright, Merrill C.: *See*—
Griffin, Harold F., and Wright.

Wright, Orell, Spindale, N. C., assignor to C. Rosenstein, Paterson, N. J. Control mechanism. 2,642,097, June 16.

Yingling, Charles R., Baltimore, Md. Receptacle for threaded needles. 2,642,211, June 16.

Young, David W.: *See*—
Morway, Arnold J., Young, and Cottle.

Young, Herbert, assignor to National Brass Company, Grand Rapids, Mich. Reinforced escutcheon plate. 2,642,302, June 16.

Young, John F., Salem, assignor to Traceriab, Inc., Boston, Mass. Shielding container for radioactive sources. 2,642,541, June 16.

Young Radiator Company, assignee: *See*—
Zummach, John G.

Yutzy, Henry C.: *See*—
Damschroder, Rudolph E., and Yutzy.

Zanichkowsky, Martin: *See*—
Zaslavsky, Sam, and Zanichkowsky.

Zaslavsky, Sam, Jackson Heights, and M. Zanichkowsky, Brooklyn, assignors to The Sperry Corporation, Great Neck, N. Y. Mode suppressing coupling for cavity wavemeters. 2,642,494, June 16.

Zegers, Willem F. H., assignee: *See*—
Vonders, Karel.

Zenith Radio Corporation, assignee: *See*—
Cotsworth, Albert, III.

Zeno, Manuel, Santurce, P. R. Wall alignment apparatus. 2,641,846, June 16.

Zimmer, Clyde R., assignor to E. J. Brach & Sons, Chicago, Ill. Device for depositing centers in candy pieces. 2,642,010, June 16.

Zimmerman, Louis, Newcastle-on-Tyne, England, assignor to Clearing Machine Corporation, Chicago, Ill. Hydraulic press. 2,642,023, June 16.

Zobel, Theodor W., Braunschweig, and F. Mirus, Weiner, Germany. Method and test equipment for measuring the quality of glass surfaces of unusually large dimensions under different supporting and loading conditions. 2,641,958, June 16.

Zublin, John A., Los Angeles, Calif. Apparatus for initiating and drilling deviating curved bores from existing vertical well bores. 2,642,267, June 16.

Zummach, John G., Brownsville, Tex., assignor to Young Radiator Company, Racine, Wis. Work holder. 2,641,823, June 16.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Label applying mechanism. G. W. von Hofe. Re. 23,668, June 16.

LIST OF PLANT INVENTIONS

Euonymus fortunei plant. C. D. Corliss. 1,194–5, June 16.

Rose plant. B. Engkvist. 1,196, June 16.

Rose plant. W. Kordes. 1,197, June 16.

LIST OF DESIGN INVENTIONS

Aquarium, Annular transparent. E. A. Rice. 169,866, June 16.

Bedspread or similar article. C. Shapiro. 169,869–70, June 16.

Bottle. R. R. York. 169,884, June 16.

Brassière. L. Josephson. 169,848, June 16.

Car body, Railway. S. W. Kay. 169,855–6, June 16.

Chain for a necklace or the like, Link. A. Katz. 169,851, June 16.

Cleaver, tenderizer, and saw or similar article, Combined. S. L. Gerson. 169,843, June 16.

Closure for collapsible tubes. C. M. Del Mas. 169,839, June 16.

Coffee maker and dispenser, Combination pressure. G. Gaggia. 169,842, June 16.

Control panel for a washing machine, Combined top and backguard. B. N. Trombley. 169,872, June 16.

Fabric or similar article, Textile. A. Holland. 169,844–5, June 16.

Fabric, Textile. L. Blubm. 169,838, June 16.

Fabric, Textile. E. M. Molenaor. 169,860, June 16.

Fabric, Textile. S. Weinberg. 169,879, June 16.

Golf club, Practice. E. H. Williams. 169,880, June 16.

Heater. E. A. Farr. 169,840, June 16.

Lawn sprinkler or the like. H. W. Vogi. 169,873, June 16.

Necklace or the like. A. Katz. 169,849–50, June 16.

Necklace or the like. A. Katz. 169,852–4, June 16.

Packing member for fragile articles. P. M. Williams. 169,881–3 June 16.

Playing cards, Set of. M. Inman. 169,847, June 16.

Roaster and cabinet, Combined electric. F. Wagner. 169,874, June 16.

Roaster, Electric. F. Wagner. 169,875–7, June 16.

Saw, Electric chain. C. A. Latimer and D. H. Freund. 169,858, June 16.

Shadow box or similar article, Illuminable. H. L. and M. K. Speer. 169,871, June 16.

Shaker conveyer trough. E. R. Bergmann. 169,834, June 16.

Staple puller. W. H. Misson. 169,859, June 16.

Stocking. C. Nye. 169,865, June 16.

Table, Coffee. R. S. Sanford. 169,867, June 16.

Table or similar article. S. M. Schwartz. 169,868, June 16.

Tire. W. F. Billingsley. 169,835–6, June 16.

Tool headpiece, Gardening. A. Fath. 169,841, June 16.

Tool, Spreader. J. Blander. 169,837, June 16.

Toy airplane or similar article. H. J. Myser. 169,861–4, June 16.

Toy bug. F. Hotchner. 169,846, June 16.

Toy, Manipulative. N. W. Washington. 169,878, June 16.

Toy vehicle tire. B. C. Klint. 169,857, June 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading unit. J. M. Radabaugh. 2,641,878, June 16.

Accounting system, Automatic message. G. A. Locke and A. Weaver. 2,642,493, June 16.

Actuating mechanism for impact machines. E. C. Lundeberg. 2,641,941, June 16.

Acylated polystyrene. J. M. Butler. 2,642,398, June 16.

Adhesive applier for fiber containers. E. W. Lager, H. E. Haase, and J. J. Prohaska. 2,642,031, June 16.

Adjustable automobile seat. G. H. Cochran. 2,642,120, June 16.

Adjustable hose clamp. M. Brodheim. 2,641,817, June 16.

Adjustable multiple circuit control switch. W. L. Dietrich. 2,642,503, June 16.

Adjustable speed induction motor. D. E. Warner. 2,642,555, June 16.

Adjustable support stand. J. L. Stephans. 2,642,246, June 16.

Adjusting injectors. H. A. Johnson. 2,642,047, June 16.

Aerobic biological sewage treating process and system, Two-stage. C. H. Paulette and J. Guns. 2,642,394, June 16.

Aircraft, float-equipped. C. C. Crossley. 2,642,239, June 16.

Air line respirator filter cartridge holder. C. J. Boyer. 2,642,061, June 16.

Air-operated apparatus for removing dust accumulations from regenerative checkerwork. H. W. Wells. 2,641,791, June 16.

Airplane, All-weather. L. C. McCarty, Jr., and H. G. Fello. 2,642,238, June 16.

Air translating apparatus. G. H. Koch. 2,642,220, June 16.

Aligning and freeing bearings. A. F. Knoblaugh. 2,641,828, June 16.

Alkali metal dispersions. H. K. Livingston. 2,642,344, June 16.

Alkali metal dispersions and their use as diesel fuel additives. H. W. Bradley and H. K. Livingston. 2,642,345, June 16.

Alkaline battery. W. W. Gary, Jr. 2,642,469, June 16.

Alloy: *See*—
Cerium base alloy.

α-amino-α,α-diphenylacetic acid derivatives and preparing same. R. Duschinsky. 2,642,433, June 16.

Anchor line sheave for small boats, Clamp-on. C. C. Swonger. 2,642,025, June 16.

Andiron legs, Making. H. Sherman. 2,642,024, June 16.

Angle gauging device for use with shears. J. J. Gundlach. 2,641,845, June 16.

Anion-exchange resins, Making. R. M. Wheaton and D. F. Harrington. 2,642,417, June 16.

Anodic rod holder. W. C. Wellman. 2,642,391, June 16.

Antenna, Broadband loop. S. Frankel. 2,642,529, June 16.

Antenna for television receivers. R. B. Albright. 2,642,528, June 16.

Apparatus for advancing and working plastic compounds. H. A. Myers. 2,641,800, June 16.

Apparatus for cold reducing metal bars. G. L. Fisk. 2,642,280, June 16.

Apparatus for continuously treating lengthy cellulose material. J. Dungler. 2,641,850, June 16.

Apparatus for cooling combustion chambers of movable power plants with an oxidising agent. M. Bouffart. 2,641,904, June 16.

Apparatus for cutting and stacking sheets. A. F. Sperling and W. E. Schroeder. 2,641,074, June 16.

Apparatus for determining coating thickness. K. G. Carroll and D. S. Miller. 2,642,537, June 16.

Apparatus for drying granular material. O. C. Wilson. 2,641,848, June 16.

Apparatus for extruding pellets. A. McDonald and J. R. Strobel. 2,641,799, June 16.

Apparatus for generating large mechanical vibrations. E. W. Smith. 2,642,545, June 16.

Apparatus for initiating and drilling deviating curved bores from existing vertical well bores. J. A. Zublin. 2,642,267, June 16.

Apparatus for limb reeducation. D. Leroy. 2,642,286, June 16.

Apparatus for making U-shaped brake hangers. F. Schaefer. 2,642,112, June 16.

Apparatus for manufacturing brick. H. Rivers. 2,641,820, June 16.

Apparatus for molding concrete pipe. H. X. Eschenbrenner. 2,641,818, June 16.

Apparatus for obtaining aerosols of superior quality. L. Dautrebande. 2,642,150, June 16.

Apparatus for permanently waving hair on the human head. J. S. Cipolla. 2,642,071–2, June 16.

Apparatus for powdering the interior of surgeons' gloves. C. J. Miller. 2,642,033, June 16.

Apparatus for producing lightweight aggregates. J. B. Dube. 2,642,273, June 16.

Apparatus for recovering practice torpedoes. C. B. Brown, E. P. Cox, R. MacHenry, and E. Finkle. 2,641,780, June 16.

Apparatus for relaying a control function through compressed air. J. E. White. 2,642,075, June 16.

Apparatus for straightening pipe. T. H. Kennedy and S. Webb. 2,642,113, June 16.

Apparatus for the winding of endless bands. F. G. Buhrendorf. 2,642,281, June 16.

Apparatus for treating wells. C. F. Bedford. 2,642,139, June 16.

Arch form for furnace roofs. E. E. McVey and J. H. Opre. 2,642,163, June 16.

Armrest device, Portable. H. Glauber. 2,642,117, June 16.

Arm support for operating beds. A. M. Kasnowich. 2,642,250, June 16.

Article holder. J. F. Kelly. 2,642,190, June 16.

Assimilating machine, Shrimp. A. E. Waltman. 2,641,797, June 16.

Automatic apparatus for injecting curing liquid into hog bellies and the like. N. J. Allbright and R. W. Illsley. 2,641,990, June 16.

Automatic clutch. E. W. Brown. 2,642,167, June 16.

Automatic fuel feed control system for aircraft power plants. F. W. Page and S. G. Hooker. 2,642,237, June 16.

Automatic head for machine tools. H. O. Kylin. 2,641,938, June 16.

Automatic transmission. R. H. Walder. 2,641,936, June 16.

Automobile bumper guard jack. C. H. Haynes. 2,642,304, June 16.

Automobile wheel mounting. A. E. Frandi. 2,642,316, June 16.

Auxiliary pressure relief, vacuum relief, and dump valve. R. A. Arthur. 2,641,986, June 16.

Awning, Window. S. M. Brody. 2,642,133, June 16.

Backing machine, Razor blade. W. Bindasus. 2,642,111, June 16.

Balancing device. S. F. Anderson. 2,641,877, June 16.

Ball bumper, Angularly adjustable. R. T. Moloney and H. L. Seiden. 2,642,290, June 16.

Bar: *See*—
Folding towel bar.
Special boring bar.

Bearing: *See*—
Roller bearing.

Bearing assembly. B. E. Ricks. 2,642,318, June 16.

Bed, Collapsible camp. S. Karasek. 2,641,777, June 16.

Belt fastener. C. Boudreau. 2,641,812, June 16.

Billet marker. J. E. Whittaker. 2,641,995, June 16.

Binder for filler materials in tubular welding rods. H. S. Avery. 2,642,516, June 16.

Bird nest frame. B. W. Howling and M. C. Howling. 2,642,038, June 16.

Blade apparatus. A. G. Thorp, II. 2,642,263, June 16.

Blade mounting structure for linoleum and asphalt tile remover. T. C. Rush. 2,642,272, June 16.

Blank magazine for folding box machines. T. R. Baker and E. J. Pagendarm. 2,642,285, June 16.

Blower intake port. J. E. Whitfield. 2,642,003, June 16.

Board: *See*—
Composite wooden board.

Boiler with vertical flue, circulating coil, and indirectly heated domestic supply, Stand. C. Z. Alexander. 2,642,046, June 16.

Bolt, Locked. C. Hollerith. 2,642,109, June 16.

Borates of tertiary alcohols, Preparation of. S. B. Lippincott. 2,642,453, June 16.

Bottle filler. A. J. Lippold. 2,642,214, June 16.

Bottle loader, Tilting bucket. J. F. Currivan. 2,642,212, June 16.

Box: *See*—
Wall-outlet box.

Bracket: *See*—
Length adjusting and attaching bracket.

Bracket receptacle. L. M. Hobson. 2,642,191, June 16.

Brake: *See*—
Two-shoe industrial type brake.
Brake. B. E. House. 2,642,159, June 16.
Brake applying apparatus, Pedally controlled power-operated vehicle. O. H. Banker. 2,642,165, June 16.
Branding sheet. W. P. Donald. 2,641,998, June 16.
Brewing beverages and the like, Means for. E. S. Clemens. 2,641,992, June 16.
Bridge construction. J. B. Templeton. 2,641,784, June 16.
Brush and buffer holding bandle, Resilient. R. S. Parker. 2,641,786, June 16.
Buffing composition for metals and making same. H. A. Stier. 2,642,348, June 16.
Bumper guard, Automobile. P. M. Mitchell. 2,642,303, June 16.
Burner: *See*—
Pot type oil burner.
Burner for immersion heaters. J. L. Breese. 2,642,129, June 16.
Bush and bog harrow. F. D. Sawyer. 2,641,884, June 16.
Cabinet: *See*—
Display cabinet.
Knockdown cabinet.
Toothbrush cabinet.
Calculator, Feed. J. B. Christiansen. 2,642,224, June 16.
Camera for taking photographs of inner wall of cavity of human or animal bodies. T. Uji, M. Sugiura, and M. Fukami. 2,641,977, June 16.
Camera shutter mechanism with synchronizer. W. L. Lawson. 2,641,978, June 16.
Canning whole fresh milk. J. C. Moeri. 2,642,363, June 16.
Cap and dispenser for perfume bottles, Combined. S. Sudbeaz. 2,641,788, June 16.
Cap remover, Bottle screw. F. Krize, Jr. 2,641,943, June 16.
Car-feeding mechanism, Track positioned. G. W. Merritt and C. L. Muntz. 2,642,006, June 16.
Card and envelope assembly, Greeting. W. C. Baynes. 2,642,182, June 16.
Card setting machine. A. H. Schaub. 2,642,099, June 16.
Carton. L. F. Prossen. 2,642,183, June 16.
Carton feeding machine. R. Vable. 2,642,196, June 16.
Cartridge: *See*—
Air line respirator filter cartridge.
Casting machine, Slug. J. F. Krusberger. 2,642,180, June 16.
Catalyst recovery. H. E. Laurey. 2,642,401, June 16.
Catalytic reforming of hydrocarbons. C. V. Berger and V. Haensel. 2,642,383, June 16.
Catalytic reforming of hydrocarbons. C. V. Berger and V. Haensel. 2,642,385, June 16.
Cellular plastics containing saturated and unsaturated polyester resins. E. Simon and F. W. Thomas. 2,642,403, June 16.
Cement cooler. M. Lintz. 2,641,849, June 16.
Centrifugal dust and cinder collector. F. J. Dohrer. 2,642,152, June 16.
Centrifugal pump. C. J. Bergh. 2,642,004, June 16.
Cerium base alloy. H. Kent. 2,642,358, June 16.
Chain saw link. E. T. Dunnington. 2,642,102, June 16.
Chair. R. P. Frick. 2,642,121, June 16.
Chairs, Set of nested. D. C. Dary. 2,642,119, June 16.
Chemical compounds and preparing the same. M. Seidman and K. P. Link. 2,642,441, June 16.
Chloromethylated arylaminobenzanthrones. E. E. Renfrew and D. I. Randall. 2,642,442, June 16.
Chloromethylated aryl thioethers of the anthraquinone series. D. I. Randall and E. E. Renfrew. 2,642,444, June 16.
Chopper, Tractor mounted rotary. J. F. Pilsner. 2,641,981, June 16.
Chronograph setting hammer system. R. H. Jeanneret. 2,641,899, June 16.
Circuit: *See*—
Dial telephone system-digit absorbing selector circuit.
Echo distance measuring circuit.
Gas tube protector circuit.
Ring oscillator pulse producing circuit.
Voice frequency signaling circuit.
Circuit arrangement for X-ray tubes. M. Berindei and W. Tennet. 2,642,540, June 16.
Circuit breaker with calibration provision, Automatic. T. M. Cole and P. M. Christensen. 2,642,509, June 16.
Circuit for continuously operating electrophotographic printers, Control. L. B. Butterfield and J. H. Sulzer. 2,641,997, June 16.
Circuit operating device, Electric. R. C. Hascall. 2,642,504, June 16.
Clamp: *See*—
Adjustable hose clamp.
Plural cable clamp.
Rotatable welding ground clamp.
Clamp for hanging pipe and the like. O. C. Kindorf. 2,642,243, June 16.
Clipper attachment for lawn mowers. A. Drohomer. 2,641,893, June 16.
Clipper with improved reciprocable cutter blade, Hair. W. H. Need. 2,641,833, June 16.
Clock assembly, Advertising display. C. Gabrielsen. 2,641,856, June 16.
Clock control mechanism, Chime. L. A. Maas. 2,641,897, June 16.
Clock control time period signal device. A. D. Capehart and E. A. Hines. 2,642,490, June 16.
Closure appliance for bottle capping machinery. T. L. Goldsmith. 2,642,213, June 16.
Closure device for containers, Permanently attached. W. J. Dixon. 2,642,204, June 16.
Cloth roll mounting for narrow ware looms. E. R. Holmes. 2,642,096, June 16.
Clothespin. C. A. Morgan. 2,641,811, June 16.
Clutch: *See*—
Automatic clutch.
Clutch and brake, Combined electromagnetically actuated. M. R. Hutchison, Jr. 2,642,169, June 16.
Coaster. G. L. and H. H. Raymond. 2,641,911, June 16.
Coat retainer. I. R. Lang. 2,642,210, June 16.
Coating machine for rigid sheet material, Roller. E. H. Brink. 2,642,030, June 16.
Coating metal articles by dipping in bath of dissimilar molten metal. De Y. Wallace and L. R. Mansell. 2,642,368, June 16.
Coating sheet material with wax. G. G. Rumberger. 2,642,366, June 16.
Coatings for optical elements and applying them, Protective. P. T. Scharf and W. J. Keenan. 2,641,954, June 16.
Coaxial transmission line switch. C. A. Haulman and D. J. Hafferty. 2,642,495, June 16.
Coffee maker, Automatic water-controlled electric drip. A. C. Wilcox. 2,641,991, June 16.
Coin hopper and chute. E. C. Ingraham. 2,642,073, June 16.
Coin loss preventer. L. Michaels. 2,642,170, June 16.
Cold cathode discharge tube. M. W. Wallace. 2,642,548, June 16.
Collapsible stand. R. G. Bode. 2,642,247, June 16.
Color analyzing and synthesizing device. H. W. Helding. 2,641,853, June 16.
Combination of at least two condensers electrically connected in parallel. R. D. Bügel, G. H. Jonker, and J. H. van Santen. 2,642,476, June 16.
Combination pressure relief, vacuum relief, and dump valve. R. W. Jensen. 2,641,985, June 16.
Combustion chamber and air inlet baffle, Gas fueled. C. W. Sievert. 2,642,127, June 16.
Combustion control apparatus, Pressure responsive. W. L. Riehl. 2,642,128, June 16.
Compact and similar article. C. J. Cowan. 2,642,202, June 16.
Comparing electric signals, Method and apparatus for. S. Feinstein. 2,642,544, June 16.
Complementary color blending. R. E. Pike. 2,642,404, June 16.
Component color separator. A. C. Schroeder. 2,642,487, June 16.
Composite wooden board. F. Fahrni. 2,642,371, June 16.
Computer, Average. C. S. Barrett. 2,642,223, June 16.
Computing device, Fertility. G. H. Lee. 2,642,225, June 16.
Concentrated fertilizer by base exchange, Production of. R. D. Pike. 2,642,355, June 16.
Concrete floor compactor. C. A. Cletus and O. G. Anderson. 2,641,975, June 16.
Connecting beams to girders. M. Sasso. 2,641,829, June 16.
Connecting device, Quickly releasable. J. Loxham. 2,641,813, June 16.
Connector: *See*—
Electrical connector.
Container and atomizer for liquids, Unitary. J. B. Montenier. 2,642,313, June 16.
Container for radioactive sources, Shielding. J. F. Young. 2,642,541, June 16.
Continuous hydrogenation of sugars. L. Kasehagen. 2,642,462, June 16.
Control apparatus. J. C. Mouzon. 2,642,530, June 16.
Control apparatus for laundry and washing machines. H. Grimson and H. Davis. 2,642,565, June 16.
Control means for power lawn mowers. H. T. Bright. 2,641,889, June 16.
Control mechanism. O. Wright. 2,642,097, June 16.
Control mechanism for commercial laundry machines. R. L. Fitzgerald. 2,642,080, June 16.
Control mechanism for well pumps. J. M. West. 2,642,507, June 16.
Control of aquatic plants. A. W. Swexey. 2,642,351, June 16.
Control of aquatic weeds. A. W. Swexey. 2,642,352, June 16.
Control of flow of granular material. C. S. Reed. 2,642,206, June 16.
Control of undesired vegetation, Method and composition for the. K. C. Barrons. 2,642,354, June 16.
Control system. V. R. Kimball and A. Drenkard, Jr. 2,642,567, June 16.
Conversion of sodium sulfide to sodium sulfite. J. E. Greenawalt. 2,642,336, June 16.
Converting crystalline alumina hydrate to alpha alumina. J. W. Newsome. 2,642,337, June 16.
Converting textile fibers, Process and apparatus for. N. E. Klein. 2,641,804, June 16.
Conveyer apparatus. J. F. Naylor. 2,642,178, June 16.
Conveyer, Magnetic rail. D. Buccicone. 2,642,174, June 16.
Conveyer, Portable. T. R. Mahoney. 2,642,175, June 16.

Conveyer system. A. R. De Burgh. 2,642,176, June 16.
Cooler: *See*—
Cement cooler.
Copolymers of maleic esters and long chain alkyl methacrylates. La V. N. Bauer, H. T. Neher, and W. L. Van Horne. 2,642,414, June 16.
Copyholder and line indicator. W. F. Turner. 2,642,040, June 16.
Core analysis. A. L. Smith. 2,641,922, June 16.
Corona free multiplier. B. W. Smith. 2,642,513, June 16.
Corrugated sheet material and fabricating same, Flexible. C. Y. Chittick. 2,642,372, June 16.
Cotton stripper. R. W. Baird. 2,641,890, June 16.
Coupling: *See*—
Vehicle tow coupling.
Coupling. G. E. Hanna. 2,642,297, June 16.
Coupling for cavity wavemeters, Mode suppressing. S. Zaslavsky and M. Zanicbkowsky. 2,642,494, June 16.
Cover for headboards, Decorative. R. Gill. 2,641,779, June 16.
Crane, Drapery. L. L. Whitney. 2,642,192, June 16.
Crane propelled drive. R. P. Fox. 2,642,007, June 16.
Crib convertible into a playpen, Baby. P. E. Cook. 2,641,772, June 16.
Crib, Drop side. V. J. Bukolt. 2,641,775, June 16.
Crib, Folding. S. Carbee. 2,641,774, June 16.
Crop stripper for rotary rakes. C. B. Richey. 2,641,895, June 16.
Crystalline active principle from allium species, Preparing. E. Seebeck. 2,642,374, June 16.
Crystallizing naphthalene, Method and apparatus for. G. J. Haddad and J. H. Wells. 2,642,465, June 16.
Crystallizing sodium carbonate. L. Vähl. 2,642,342, June 16.
Cuff, Garment. S. F. Stein. 2,641,765, June 16.
Curing glycidyl polyethers with N,N-dialkyl-1,3-propanediamines. H. A. Newey and E. C. Shokal. 2,642,412, June 16.
Cushion assembly, Spring. A. J. Quinn. 2,641,778, June 16.
Cutter: *See*—
Linoleum cutter.
Self-centering cutter.
Thread cutter.
Cutterhead guard for vertical spindle shapers. W. E. Brown. 2,642,104, June 16.
Cutting and assembling machine, Bandage. H. S. Fisher and G. P. Beck. 2,642,116, June 16.
Cutting machine for synthetic silk and rayon yarns. G. C. Regalia. 2,642,135, June 16.
Cylinder mold for papermaking machines. G. A. Engert. 2,641,972, June 16.
Darning attachment for sewing machines. R. E. Johnson. 2,642,022, June 16.
Defrosting means, Refrigerator. L. F. La Porte. 2,641,908, June 16.
Dental articulator. M. Beresin. 2,641,838, June 16.
Dental handpiece. R. B. Black. 2,641,839, June 16.
Dental plugger. J. D. Morrison. 2,641,836, June 16.
Denture, Artificial. L. S. Greenman. 2,641,835, June 16.
Dentures, Producing. G. W. Grant. 2,641,802, June 16.
Determination of effective porosity of core samples. P. F. Reichertz. 2,641,624, June 16.
Device for depositing centers in candy pieces. C. R. Zimmer. 2,642,010, June 16.
Device for detecting or measuring magnetic fields. J. W. Jones. 2,642,479, June 16.
Device for measuring the principal dimensions of erythrocytes. D. Verveen. 2,641,959, June 16.
Device for transferring traveling articles. F. W. Webmiller and W. J. Nekola. 2,642,173, June 16.
Device of the kind comprising an electronic tube having a ribbon-shaped beam which is deflected and held in different positions. K. Rodenhuis. 2,642,547, June 16.
Dewaxing process. L. C. Fetterly. 2,642,377, June 16.
Dial telephone system-digit absorbing selector circuit. G. Riddell and H. A. Soucy. 2,642,498, June 16.
Dialkyl ar-carboxydihydrocinnamates. W. S. Emerson and R. A. Heimach. 2,642,457, June 16.
Diaphragm assembly and making same. J. M. Barr. 2,642,090, June 16.
Diaphragm, Elastic. A. H. Morin. 2,642,091, June 16.
Diffuser and binder base for residue of evaporable material. G. W. Meek and W. H. Wheeler. 2,642,310, June 16.
Dipping apparatus, Ice-cream cone. A. D. Campbell. 2,642,029, June 16.
Directional turn indicator. R. W. Hept. 2,642,505, June 16.
Dishwashing machine and method. R. H. Hunter and E. J. Kasper. 2,642,369, June 16.
Dispenser for cylindrical articles. G. Nystedt. 2,642,328, June 16.
Dispenser having a winding key and rollers, Collapsible tube contents. C. A. Lane. 2,642,205, June 16.
Display cabinet. H. J. Fitzgerald and H. S. Berry. 2,642,329, June 16.
Display frame. N. Barr. 2,641,858, June 16.
Dissolving ash containing sodium sulfide and sodium carbonate. R. S. Aries and A. Pollak. 2,642,399, June 16.
Distillation of amyl alcohols from ketone-containing mixtures. A. Steitz, Jr., H. Grekel, T. Q. Eliot, and J. C. Weaver, Jr. 2,642,388, June 16.
Distributing wax in cemented carbide powders. L. Porges and S. T. Sawyer. 2,642,230, June 16.
Dog training device, Bird. J. R. Stuart. 2,642,036, June 16.
Doll, Gravity-actuated movable. C. Schiller. 2,641,866, June 16.
Door: *See*—
Gun blast door.
Swinging door.
Dough break. J. F. Naylor. 2,642,015, June 16.
Dough sheeting device for transverse sheeting. M. A. Sticelber. 2,642,012, June 12.
Draft arrangement. C. E. Tack, F. E. Bachman, and F. H. Kayler. 2,642,195, June 16.
Dredge bucket construction. T. C. Whisler. 2,641,835, June 16.
Dressing fixture for contouring grinding wheels. W. Muench. 2,642,059, June 16.
Drilling machine, Heel. J. W. Ashley and J. F. Leaby. 2,642,103, June 16.
Dripless steam shower pipe. J. H. Dupasquier. 2,642,314, June 16.
Drive ring. J. Karitzky. 2,642,242, June 16.
Drive system for roller coasters. C. L. Cooper. 2,642,005, June 16.
Dry cell. O. K. Reinhardt and J. Y. Welsh. 2,642,470, June 16.
Dry cell. O. K. Reinhardt and T. C. Stapleton. 2,642,471, June 16.
Dual light source for cameras. J. W. Bates. 2,642,518, June 16.
Dyeing and squeezing device for cloth-dyeing machines, Combination. J. Dungler. 2,641,917, June 16.
Earth-moving attachment for tractors. N. A. Nelson. 2,641,854, June 16.
Earthworking machine. R. P. Harshberger. 2,641,982, June 16.
Easel construction. E. F. Jaroe. 2,641,964, June 16.
Echo distance measuring circuit. J. L. Russell. 2,642,562, June 16.
Edge trim corner construction for table tops or the like. R. E. Taylor. 2,642,326, June 16.
Electric control device. W. L. Geiger and G. A. Wescott, Jr. 2,642,485, June 16.
Electric lighting fixture support. W. E. Janness. 2,642,251, June 16.
Electric power supply equipment. V. J. Terry and R. Kelly. 2,642,558, June 16.
Electrical connector. E. C. Bowar. 2,642,474, June 16.
Electrical crystal unit. C. J. Ryan. 2,642,486, June 16.
Electrical fixture. R. Pryne. 2,642,241, June 16.
Electrode for sparking plugs and their manufacture. A. G. Dowson. 2,642,053, June 16.
Electromagnetic switch. T. J. Wilson. 2,642,508, June 16.
Electron discharge circuits. J. Mofenson. 2,642,532, June 16.
Electronic bit tester. R. S. Segsworth. 2,642,482, June 16.
Electronic information storage device. F. C. Williams. 2,642,550, June 16.
Electroplating apparatus. C. J. Sommers. 2,642,392, June 16.
Elevator system, Selectively zoned. W. F. Eames. 2,642,158, June 16.
Embossing machine for stamping numbers on slabs or the like. N. H. Turner and L. N. Lloyd. 2,641,996, June 16.
End connection for tubular lamps. J. W. Easter. 2,642,521, June 16.
Engine crankcase breather and oil separator. H. H. Wagner and E. B. Williams. 2,642,052, June 16.
Engine starter mechanism. W. P. Dalrymple. 2,642,055, June 16.
Enzyme preparation, Protected. R. A. Gale and J. T. Haigh. 2,642,376, June 16.
Erasing shield. S. Felber. 2,642,172, June 16.
Escutcheon plate, Reinforced. H. Young. 2,642,302, June 16.
Esterified aromatic hydrocarbon plasticizers and compositions containing same. P. F. Bruins, E. P. Wilkinson, and E. P. Rittershausen. 2,642,407, June 16.
Exercise machine. J. D. Bell. 2,642,288, June 16.
Exothermic reactions, Process and apparatus for. P. C. Keith. 2,642,346, June 16.
Extraction mechanism, Fruit juice. E. J. Coffey and P. E. Fischer. 2,642,106, June 16.
Extraction tower, Liquid-liquid. J. M. Bradley. 2,642,341, June 16.
Extrusion machine for molding pellets and the like from plastic substances. A. W. Siser. 2,642,011, June 16.
Fail safe limit switch. R. Goldstein. 2,642,557, June 16.
Fan housing. W. R. Heath. 2,642,219, June 16.
Farm building. B. G. Perkins. 2,641,988, June 16.
Fastener: *See*—
Belt fastener.
Separable fastener.
Fastening device for electric wires. G. A. Tinnerman. 2,641,808, June 16.
Fastening device, Suction. W. P. Semon. 2,642,248, June 16.
Fastening means for ironer roll covers. J. A. Skelton. 2,641,824, June 16.
Feed ring with drain grooves for rotating grindstone wood grinding machines. G. D. Illig. 2,642,231, June 16.
Female breast support. W. E. Schroeder. 2,641,763, June 16.

Fence, Metal panel. T. M. Daniel. 2,642,269, June 16.
Fender reshaping roller, Manually operated. L. R. Harris. 2,641,945, June 16.
Fiber drums having metal closures, Making. H. L. Carpenter. 2,641,827, June 16.
Filling head for vacuum powder filling machines. C. F. Carter. 2,642,216, June 16.
Film drive compensatory mechanism. R. W. Wengel. 2,641,961, June 16.
Film-feeding mechanism, Intermittent. V. H. Jungjohann. 2,641,962, June 16.
Film-perforation pitch gauge. C. A. Morrison and F. M. Brown. 2,641,956, June 16.
Filter. C. S. Garland and F. H. Rogers. 2,642,186, June 16.
Filter unit construction. A. E. Bell. 2,642,187, June 16.
Filter unit construction, Replaceable. R. R. Layte and A. E. Bell. 2,642,188, June 16.
Fire-retarding coating composition composed of nitrogen-phosphorus compound with an aldehyde resin. M. L. Nielsen. 2,642,405, June 16.
Fish lure. H. W. Poe. 2,641,862, June 16.
Fishing device. J. Doran. 2,641,861, June 16.
Flashlight, Portable rechargeable. R. S. Coolidge, H. W. Keely, R. S. Smith, and T. N. Anderson. 2,642,520, June 16.
Flight position locator. M. R. Hart and F. Collura. 2,641,843, June 16.
Float mechanism for controlling flush tank valves. S. C. Winger. 2,642,081, June 16.
Flow control valve. H. Kirkham. 2,642,088, June 16.
Flow control valve. R. E. Moore. 2,642,260, June 16.
Fluid control means. P. E. Geldhof and L. Ringer. 2,642,085, June 16.
Fluorinated acrylates and polymers. A. H. Ahlbrecht, T. S. Reid, and D. R. Husted. 2,642,416, June 16.
Flush type door lock. A. L. Pelcin. 2,642,300, June 16.
Foldable necktie rack. M. P. Boltauzer. 2,642,194, June 16.
Folding mechanism. K. Stone. 2,641,880, June 16.
Folding towel bar. G. H. Severin. 2,642,193, June 16.
Food waste comminuting unit. J. H. Powers. 2,642,233, June 16.
Foot washer. G. Schiro. 2,641,771, June 16.
Force applying tool. O. Mueller. 2,641,942, June 16.
Forming a smooth surface on a substratum. J. de Gier and J. Peper. 2,642,365, June 16.
Forming filter housings. J. J. Dreznes. 2,641,826, June 16.
4-substituted-2-(tertiary-aminoalkoxy)-benzonitriles and their preparation. R. O. Clinton and S. C. Laskowski. 2,642,436, June 16.
Frame: *See*—
Bird nest frame. Photographic printing frame.
Display frame.
Perambulator frame.
Frame construction for weaving looms. J. Picanol. 2,642,092, June 16.
Freight handling system. B. A. Hainsworth. 2,642,197, June 16.
Fuel feed device, Supplemental. D. E. Anderson, R. A. Kolonick, and W. Raymor. 2,642,082, June 16.
Fuel injection apparatus. L. O. French. 2,642,315, June 16.
Furnace: *See*—
Hearth furnace.
Furnace control, Hot-air. W. A. Ray. 2,642,227, June 16.
Furniture made of stamped or molded material and adapted for nesting. C. C. Lamb. 2,642,118, June 16.
Furniture, Metal. W. F. Grabendike. 2,642,126, June 16.
Garbage grinder control mechanism. J. Drew. 2,642,232, June 16.
Garbage pail holder. E. Rice and V. E. Fisher. 2,642,245, June 16.
Garden hose reel. T. Shine. 2,642,312, June 16.
Gas burner secondary air-feed ring and baffle. H. D. Du Fault. 2,642,131, June 16.
Gas separation by adsorption and preferential desorption. W. A. Parks. 2,642,153, June 16.
Gas tube protector circuit. I. Sager. 2,642,552, June 16.
Gasket for spaghetti extrusion presses, Die-head. E. Thalmann. 2,642,016, June 16.
Gauge: *See*—
Film-perforation pitch gauge. Radio reporting precipitation gauge.
Jointer knife setting gauge.
Gauge device, Drawbar pull. H. L. Eisenbart. 2,641,926, June 16.
Gauging equipment, Electromagnetic. A. G. Ladrach. 2,641,841, June 16.
Gear shaping machine with displaceable apron. E. W. Miller. 2,641,968, June 16.
Geiger tube circuit with cathode follower. S. W. Lichtman. 2,642,539, June 16.
Generator: *See*—
Radio-frequency generator.
Girdle. R. Greco. 2,641,762, June 16.
Glove, Rubber. E. La Rosa. 2,641,767, June 16.
Golf game and practice apparatus. E. Van Kinkle. 2,641,932, June 16.
Golf game and practice device. E. Van Kinkle. 2,641,933, June 16.
Grab. W. J. Olson. 2,642,307, June 16.
Gravitometer, Gas. S. W. Binckley. 2,641,923, June 16.
Greenhouse ridge assembly. K. W. Weeber. 2,642,018, June 16.
Grinding machine. R. G. Kirby. 2,641,874, June 16.
Grinding machine, Precision. J. Decker and B. A. Kearns. 2,641,876, June 16.
Grinding wheel speed regulator. R. G. Kirby, J. M. Morgan, Jr., and J. Decker. 2,641,875, June 16.
Guide sheave arrangement for control cable extending between tractor and trailer vehicles connected by a weight-transferring hitch. L. R. Simmons. 2,642,293, June 16.
Gun blast door. G. Bussiere, Q. C. Johnson, and J. E. Straub. 2,641,967, June 16.
Gun, Harpoon. R. E. Harris. 2,642,056, June 16.
Hair conditioning applicator. E. G. Lubin and J. S. Stein. 2,642,070, June 16.
Halogen addition products of 1,4-dihydroanthraquinone. H. Z. Lecher and K. C. Whitehouse. 2,642,445, June 16.
Handle and support, Combined. H. H. Miller. 2,641,904, June 16.
Handle assembly for power chain saws, Removable. A. T. Quirke. 2,642,100, June 16.
Harmonica. J. West and J. Brooksbank. 2,641,950, June 16.
Harvester, Bean. T. Grether. 2,641,888, June 16.
Harvester, Beet. R. Hojio. 2,641,892, June 16.
Harvesting machine, Cotton. L. E. and C. J. Spears. 2,641,891, June 16.
Headrest for vehicles. H. J. Slowey. 2,642,124, June 16.
Hearth furnace. I. E. Cushing and G. M. Slaughter. 2,642,019, June 16.
Heat hardening of friction materials. C. S. Batchelor and H. J. Cofek. 2,641,801, June 16.
Heat transfer between exothermic and endothermic reactions. N. L. Dickinson. 2,642,381, June 16.
Heater: *See*—
Wall heater. Water heater.
Helicopter rotor. R. H. Miller. 2,642,143, June 16.
Hemostatic compositions. J. Henderson, A. Bloch, and H. L. Davis. 2,642,375, June 16.
High-frequency magnetron. C. V. Litton. 2,642,551, June 16.
High octane fuel components, Production of. J. P. Hogan. 2,642,467, June 16.
Hinge. J. Raskin. 2,641,794, June 16.
Hinge adjusting and bending tool. F. A. Phipps. 2,641,946, June 16.
Hinge guard. N. E. Peeler. 2,641,792, June 16.
Hoist. O. E. Dotson. 2,642,266, June 16.
Hoisting cradle. A. T. German. 2,642,198, June 16.
Holder: *See*—
Anodic rod holder. License plate holder.
Article holder. Pot holder.
Garbage pail holder. Work holder.
Holder for telephone instruments, Pencil. R. Kimball. 2,641,809, June 16.
Hood for photographic cameras, Focusing. H. Bretthauer. 2,641,955, June 16.
Hood, Protective. G. J. Pipher. 2,641,768, June 16.
Hose covering stripping tool. C. A. Laffoon. 2,641,944, June 16.
Housed spark-over gap. L. Pummer. 2,642,549, June 16.
Hydraulic completion of wells. J. B. Clark. 2,642,142, June 16.
Hydraulic press. L. Zimmerman. 2,642,023, June 16.
Hydraulic shutoff valve. H. W. Wishart. 2,642,079, June 16.
Hydraulically actuated press. J. Macewka. 2,642,138, June 16.
Hydrocarbon oil containing a mercaptobenzimidazole. T. C. Roddy, Jr. 2,642,396, June 16.
Hydrocarbon synthesis. I. Mayer and V. C. Johnson. 2,642,448, June 16.
Hydroxy substituted aliphatic ether derivatives of nitrogen heterocyclics. P. M. Downey. 2,642,430, June 16.
Icing condition indicating means. W. E. Howell. 2,641,928, June 16.
Illumination apparatus for warning and signaling purposes and having headlight and warning light units adjustable in unison. T. E. McDowell and A. C. Heehler. 2,642,522, June 16.
Implement-tractor combination, Row crop. A. Korsmo and M. Ronning. 2,641,887, June 16.
Increasing contrast of transparencies, Method and apparatus for. S. R. Carter. 2,641,963, June 16.
Indicating and recording device for yarn diameters. F. P. Strother. 2,641,960, June 16.
Indicator: *See*—
Directional turn indicator.
Indicator for cooking range ovens. C. M. Mayer. 2,642,132, June 16.
Indicator for eutectic coolers. R. E. J. Shave. 2,642,480, June 16.
Indicator for flatiron control means. P. J. Kircher. 2,642,027, June 16.
Inductance coil of the sliding core type. H. M. Visch. 2,642,559, June 16.
Inductive prospecting. M. Puranen and A. A. Kahma. 2,642,477, June 16.
Inflating device, Automatic. G. H. Connors. 2,642,110, June 16.
Ingot mold. E. Marburg. 2,641,807, June 16.
Ingot stripper. R. J. Leckrone. 2,641,806, June 16.

Inhaler. F. E. Brown. 2,642,063, June 16.
Injection apparatus. E. A. May. 2,642,062, June 16.
Injection device. E. R. Lawshe. 2,642,064, June 16.
Ink drying equipment for web printing machines. W. C. Wieking. 2,642,000, June 16.
Instrument, Cross-country navigational. M. S. Worley. 2,641,844, June 16.
Instrument, Measuring. F. R. Porter, Jr. 2,641,842, June 16.
Instrument, Writing. J. P. Gowland. 2,642,042, June 16.
Interlock system. B. Cooper. 2,641,919, June 16.
Interlocking brick. C. J. Lacy. 2,641,921, June 16.
Ion exchange process with magnetic ion exchange resins. E. C. Herkenhoff. 2,642,514, June 16.
Ion trap. L. J. Patla. 2,642,546, June 16.
Isomerization of alkyl vinyl ethers. D. C. Hull and H. J. Hagemeyer, Jr. 2,642,460, June 16.
Jack: *See*—
Automobile bumper guard jack.
Jointer knife setting gauge. H. R. McCormick. 2,641,847, June 16.
Journal box lid. D. D. Bryant. 2,642,320, June 16.
Journal box lid. A. O. Bucklus. 2,642,319, June 16.
Keeper mechanism. W. A. Endter. 2,642,301, June 16.
Key and emergency brake reminder mechanism, Combined ignition. J. F. Feyes. 2,642,145, June 16.
Keyboard. H. P. Luhn. 2,642,226, June 16.
Knee brace or stabilizer. A. L. Schultz. 2,641,761, June 16.
Knife, Cheese and butter. P. T. Champlin. 2,641,832, June 16.
Knockdown cabinet. S. T. Armour. 2,642,330, June 16.
Knot and ¾. R. Sonnberger. 2,641,951, June 16.
Laboratory apparatus for demonstrating and interpreting gauge tests of wheels. G. H. Taber. 2,641,851, June 16.
Laboratory flash still for heavy oils. J. J. Piros. 2,642,386, June 16.
Laminating material and resulting product. G. B. Parsons and D. Depew. 2,642,370, June 16.
Last, Collapsible. G. F. Ryan. 2,641,782, June 16.
Lawn mower, Reciprocating blade. J. F. McShane and W. Logan. 2,641,894, June 16.
Leg structure for tables, Folding. H. W. Hinsken and H. H. Giesler. 2,642,325, June 16.
Length adjusting and attaching bracket. M. L. Samuels. 2,642,249, June 16.
Lens attachment, Motion-picture camera. L. J. Mellert. 2,641,952, June 16.
License plate holder. E. C. Leighton. 2,641,815, June 16.
Lift device, Plunger. D. G. Knox and J. W. Lawrence, Jr. 2,642,002, June 16.
Light: *See*—
Traffic light.
Light-sensitive baryta-coated photographic paper. G. R. Clark and L. F. Miller. 2,642,362, June 16.
Lighter. L. Bolle. 2,641,915, June 16.
Lighter, Gas pilot. W. T. Lynch. 2,642,084, June 16.
Lighting control apparatus. R. G. Williams. 2,642,553, June 16.
Lighting fixture. A. L. Judson. 2,642,561, June 16.
Linking machine, Sausage. E. W. Anderson. 2,641,798, June 16.
Linoleum cutter. S. F. and S. L. Bobrowski. 2,641,834, June 16.
Liquid applicator for yarn. H. J. McDermott. 2,642,035, June 16.
Liquid fuel combustion chamber. A. Huyton. 2,641,903, June 16.
Liquid sampler, Automatic. R. A. Werts. 2,641,934, June 16.
Lock: *See*—
Flush type door lock. Telephone lock.
Lock with key ejector. W. H. Gill and T. E. Darrah. 2,641,920, June 16.
Locking device for nuts, Safety. E. C. Geistert. 2,642,108, June 16.
Locking structure, Folding box. S. Platt. 2,642,218, June 16.
Low-temperature carbonization of carbonaceous material. M. Steinschlaeger. 2,642,387, June 16.
Lower alkyl 4-substituted-2-(tertiary-aminoalkoxy) benzoates and their preparation. R. O. Clinton and S. C. Laskowski. 2,642,432, June 16.
Lubricating grease compositions. A. J. Morway, D. W. Young, and D. L. Cottle. 2,642,397, June 16.
Lubricating system. K. E. A. Gothberg and S. Sandahl. 2,642,156, June 16.
Lubrication apparatus. W. F. Wilhelm, Jr., and E. Gilbert. 2,642,155, June 16.
Lubricator: *See*—
Tool joint lubricator.
Luminaire of the wall mounted type. V. S. Wince. 2,642,523, June 16.
Luminiferous cane. W. Caustin and C. J. Gustafson. 2,642,519, June 16.
Machine for making paper boxes. C. Straw. 2,641,973, June 16.
Machine for making wire fabric. A. L. Stoeckel. 2,642,098, June 16.
Machine for removing green corn from the cob. J. R. Urschel. 2,642,008, June 16.
Machine for skinning vegetables and the like. G. J. Edmonds. 2,642,107, June 16.
Machine tool control mechanism. E. G. Roehm. 2,641,969, June 16.
Making fiberboard from groundwood. W. L. Scott. 2,642,359, June 16.
Magnifying attachment for lamp shades. J. M. Valenza. 2,641,965, June 16.
Making ice cream, Means for. M. A. Orbitelli. 2,642,009, June 16.
Marking apparatus. J. K. Jackson. 2,641,999, June 16.
Mass spectrometer. A. C. Schroeder. 2,642,535, June 16.
Mast assembly, Lifting. H. E. Milz. 2,642,157, June 16.
Mat finish enamels for aluminum. W. R. Beatty and O. A. Short. 2,642,364, June 16.
Measuring and control apparatus, Pulsing electronic. G. A. F. Machlet. 2,642,228, June 16.
Measuring apparatus, Temperature. R. F. Wild. 2,641,931, June 16.
Mechanical fiddler. K. K. and A. R. McEntyre. 2,641,867, June 16.
Mechanical hand. G. H. Robinson. 2,641,769, June 16.
Mechanism for feeding sheets to rotary drum machines. H. T. Backhouse. 2,642,282, June 16.
Mercury or liquid contact switch. I. Shamah. 2,642,512, June 16.
Metal cross bar joints, Making. S. M. S. Adams. 2,641,825, June 16.
Metal forming press. C. J. Bath and R. J. Ebert. 2,642,114, June 16.
Metal shelter, Collapsible. H. B. Tobias. 2,642,162, June 16.
Metal tungsilite catalyzed hydrogenation process. H. R. Arnold and J. E. Carnahan. 2,642,463, June 16.
Metering and timing controller for sprinkling systems. C. R. Tigert and D. E. Finnicum. 2,642,076, June 16.
Metering system, Self-aid high-pressure. C. D. Baucom. 2,641,907, June 16.
Methallyl halides, Production of. H. A. Cheney, A. W. Fairbairn, and O. L. Davis. 2,642,464, June 16.
Method and test equipment for measuring the quality of glass surfaces of unusually large dimensions under different supporting and loading conditions. T. W. Zobel and F. Mirus. 2,641,958, June 16.
Mine roof support. R. N. Knights and C. M. Frye. 2,641,906, June 16.
Mirror and light beam wheel checking apparatus and method of correcting for run-out in employing same. M. L. Vandermeer. 2,641,957, June 16.
Mirror, Rear-vision. T. L. Beach, Jr. 2,642,244, June 16.
Mold: *See*—
Ingot mold.
Moldable compositions comprising an unsaturated alkyd and kaolin coated with a heterocyclic amine-formaldehyde resin, Production of. D. E. Cordier. 2,642,409, June 16.
Monitored power output system for resonator cavities. G. P. McCouch. 2,642,472, June 16.
Mop having sectional head with contrasting cleaning material. S. P., M., and J. Vosbikian. 2,641,787, June 16.
Motor: *See*—
Adjustable speed induction motor.
Motor control. R. C. Strauss. 2,642,166, June 16.
Motor having piston actuated pilot valve, Fluid. E. L. Potts. 2,642,045, June 16.
Motor mounting. T. H. Peirce. 2,642,240, June 16.
Motor of the metadyne type, Electric. J. M. Pestarini. 2,642,556, June 16.
Mounting: *See*—
Automobile wheel mounting. Plastic tooth mounting.
Motor mounting. Railway truck shock absorber mounting.
Mounting for electrical instruments. G. J. Wey. 2,642,483, June 16.
Mounting for propeller fans, Flexible. E. F. Riopelle and C. E. Hein. 2,641,910, June 16.
Mounting for tension disk for air horns, Universal. L. E. Johnson. 2,642,028, June 16.
Mounting having a resilient positioning pad, Universal head. C. E. Heck. 2,642,475, June 16.
Mounting method. P. W. Dalrymple. 2,641,879, June 16.
Multichannel analyzer. G. G. Kelley. 2,642,527, June 16.
Multicomponent gas analyzer. J. J. Heigl. 2,642,536, June 16.
Multiple standard inversion frequency measuring system. A. K. Robinson and W. J. Hoffert. 2,642,534, June 16.
N-carboxyalkyl-α-amino toluic acids and their alkyl esters. W. S. Emerson and R. A. Heimach. 2,642,456, June 16.
Necktie or similar article. A. F. Taborski. 2,641,766, June 16.
Neutralization of liquids. H. W. Gehm and L. T. Purcell. 2,642,393, June 16.
Neutralising industrial waste. A. L. Nugey. 2,642,334, June 16.
Nitric oxide, Method of and apparatus for producing. R. D. Pike. 2,642,338, June 16.
Nitriles, Making. J. E. Mahan and S. D. Turk. 2,642,454, June 16.
Nitrothienyl ketones. K. L. Kreuz and C. D. Hurd. 2,642,440, June 16.

Odontalgic device. M. Negri. 2,642,065, June 16.
Olefin polymerization catalyst and its preparation. E. S. Corner and C. S. Lynch. 2,642,402, June 16.
Olefinic hydrocarbons, Production of. P. J. Garner and S. E. Miles. 2,642,466, June 16.
1-keto-3-butyl-4-hydroxy - 1,2,3,4 - tetrahydroisoquinoline. G. E. Ullyot. 2,642,431, June 16.
Opener, Can. F. G. Seemuller. 2,642,203, June 16.
Organic thiocyanate herbicides. D. T. Mowry and A. H. Schlesinger. 2,642,353, June 16.
Organo diphosphine oxides and sulfides. R. C. Morris and J. L. Van Winkle. 2,642,461, June 16.
Organosilicon compounds, Preparation of. E. P. Plueddemann. 2,642,447, June 16.
Ornamentation of articles made of plastics. J. Garofano. 2,642,390, June 16.
Oscillator, Radio-frequency. W. R. Baker. 2,642,531, June 16.
Outerwear ensemble, Child's. W. H. Fischer. 2,641,764, June 16.
Oxidizing iron halides to produce iron oxide and chlorine. R. H. Sawyer. 2,642,339, June 16.
Ozygen, Production of. H. Z. Martin. 2,642,340, June 16.
Packaging equipment. A. M. Donofrio. 2,641,881, June 16.
Packaging machine, Bag. C. F. Richard. 2,641,882, June 16.
Packer for well instruments, Collapsible. R. H. Kolb. 2,642,141, June 16.
Packless valve. G. O. R. Lindgren. 2,642,255, June 16.
Paper padding press. H. T. Haskell. 2,641,781, June 16.
Paper stock pulper. E. A. Ellis. 2,641,971, June 16.
Pelleting of carbon black. M. L. Studebaker. 2,642,343, June 16.
Pen, Antileak, fountain. B. F. Miessner. 2,642,041, June 16.
Pen for automobiles, Baby. J. M. Kramer. 2,641,773, June 16.
Pen, Fountain. B. F. Miessner. 2,642,043, June 16.
Pencil, Eyebrow. A. M. Filak. 2,642,039, June 16.
Pencil sharpener. J. F. W. Musgüller. 2,642,044, June 16.
Perambulator frame. B. F. Leber. 2,642,296, June 16.
Photographic color recording machine. J. W. Bryce. 2,641,976, June 16.
Photographic objective, Four-member. J. Orel. 2,641,966, June 16.
Photographic printing frame. W. S. Christiansen and A. C. Rissberger, Jr. 2,641,979, June 16.
Photographic silver halide emulsions sensitized with water-insoluble gold compounds. R. E. Damschroder and H. C. Yutzy. 2,642,361, June 16.
Photoprinting machine, Cylindrical. H. J. Brunk. 2,641,980, June 16.
Picking shaft for weaving looms. J. Picanol. 2,642,093, June 16.
Pipe: *See*—
Dripless steam shower pipe. Smoking pipe.
Pipe line, Mobile. W. O. Beyer. 2,642,311, June 16.
Piperazine salts of cyclopentanopolyhydrophenanthrene-3-monosulfates. R. B. Hasbrouck. 2,642,427, June 16.
Piston ring. D. D. Duesenberg. 2,642,323, June 16.
Piston ring assembly. M. O. Teetor. 2,642,324, June 16.
Plastic tooth mounting. S. J. Infante. 2,641,837, June 16.
Plate and cover therefor. C. Lawler. 2,641,912, June 16.
Platform and extension for adjustable chairs, Leg supporting. R. A. Maurer. 2,642,122, June 16.
Plow, Rotary moldboard. H. F. Hall. 2,641,984, June 16.
Plural cable clamp. L. T. Gasink. 2,641,810, June 16.
Polyacrylic nitrile, Production of. H. Wenning. 2,642,418, June 16.
Polyisocyanates, Preparation of. M. G. Morningstar, C. S. Schollenberger, and G. E. Stueber. 2,642,449, June 16.
Polymerization in the presence of organic hydroperoxide and metal salt drier. H. A. Hoppens. 2,642,410, June 16.
Polymers of phosphonic acid diamides with ureas. H. W. Coover, Jr. 2,642,413, June 16.
Polymethyl siloxanes and product, Preparing. P. J. Chevalier. 2,642,411, June 16.
Polyvinyl alcohol, Preparation of. W. O. Kenyon, G. P. Waugh, and E. W. Taylor. 2,642,420, June 16.
Polyvinyl alcohol, Preparation of. G. P. Waugh and W. O. Kenyon. 2,642,419, June 16.
Pot holder. C. C. Wilm. 2,641,793, June 16.
Pot type oil burner. B. R. Andersson and K. E. V. Qvarfordt. 2,642,130, June 16.
Poultry picking machine. G. W. Johnson. 2,641,796, June 16.
Power operated slip. W. E. Liljestrand. 2,641,816, June 16.
Power plant having bypass means to regulate heat input to each turbine, Closed circuit. C. Keller. 2,641,905, June 16.
Power transmission. J. R. Black and W. F. Shurts. 2,642,168, June 16.
Power unit, Self-contained. W. D. Tengue, Jr., and E. A. Volk, Jr. 2,642,543, June 16.
Press: *See*—
Hydraulic press. Metal forming press.
Hydraulically actuated press. Paper padding press.
Pressure governor. W. A. Ray. 2,641,871, June 16.
Production and purification of amino acids. H. C. White. 2,642,459, June 16.
Projector, Ball. S. J. Murphy. 2,642,058, June 16.
Projector having meniscus to correct for antihalation lens, Schmidt television. D. W. Epstein. 2,642,488, June 16.
Protecting butt flash welded articles from weld splatter. A. L. Lindow. 2,642,517, June 16.
Protecting lenses. A. H. Pfund. 2,642,367, June 16.
Puller: *See*—
Sleeve puller.
Pulley and manufacture thereof, Stamped metal. C. E. Wilken. 2,641,935, June 16.
Pump: *See*—
Centrifugal pump.
Pump and air separator unit, Combined. A. L. Grise. 2,642,148, June 16.
Pump by-passing assemblage. V. F. Dale and G. W. Reed. 2,642,001, June 16.
Punching bag mount, Convertible. H. Rubin. 2,642,287, June 16.
Pyridindoles and manufacture. R. Duschinsky. 2,642,438, June 16.
Quaternary ammonium ethyl thiocarbamates. J. Weijlard and M. Tishler. 2,642,428, June 16.
Quaternary ammonium salts of 4-substituted-2-(tertiary-aminoalkoxy)benzonitriles and their preparation. R. O. Clinton and S. C. Laskowski. 2,642,437, June 16.
Quaternary ammonium salts of lower alkyl 4-substituted-2-(tertiary-aminoalkoxy)benzoates and their preparation. R. O. Clinton and S. C. Laskowski. 2,642,434, June 16.
Quaternary ammonium salts of tertiary-aminoalkyl 4-substituted - 2 - (tertiary-aminoalkoxy)benzoates and their preparation. R. O. Clinton and S. C. Laskowski. 2,642,435, June 16.
Quaternary compounds derived from chloromethylated arylaminobenzanthrones. D. I. Randall and E. E. Renfrew. 2,642,443, June 16.
Rack: *See*—
Foldable necktie rack. Timecard rack.
Radiation protective jacket. M. Weinberg. 2,642,542, June 16.
Radio communication system. A. J. Bayliss. 2,642,524, June 16.
Radio-frequency generator. D. H. Preist. 2,642,533, June 16.
Radio reporting precipitation gauge. J. C. Stevens. 2,642,564, June 16.
Railway brake beam safety connector structure. H. W. Ekholm. 2,642,161, June 16.
Railway truck shock absorber mounting. J. C. Settles and L. E. Furniss. 2,642,008, June 16.
Ram jet and turbojet, Combination. J. A. Kerr. 2,641,902, June 16.
Ramp, Marine transfer. W. A. Pitts and C. M. Carothers. 2,641,785, June 16.
Range and tank, Oil. C. E. Chesser. 2,642,060, June 16.
Receptacle: *See*—
Bracket receptacle.
Receptacle for threaded needles. C. R. Yingling. 2,642,211, June 16.
Reclaiming single base smokeless powder. D. A. Alderson, R. V. Wakefield, and E. P. Reichardt. 2,642,350, June 16.
Recovering lost circulation in drilling wells. A. L. Armentrout. 2,642,268, June 16.
Recovering rosin. O. S. Eckhardt and I. E. Knapp. 2,642,425, June 16.
Recovery of waxes from shale oil. J. W. Horne and P. R. Tisot. 2,642,380, June 16.
Reduction of cobalt chloride, Low-temperature. E. A. Beidler. 2,642,357, June 16.
Reduction of nickel chloride, Low-temperature. E. A. Beidler. 2,642,356, June 16.
Reel: *See*—
Garden hose reel.
Refining hydrocarbon oils. G. R. Bond, Jr. 2,642,382, June 16.
Refining of starch. F. J. Fontein. 2,642,185, June 16.
Reforming of hydrocarbons boiling within the gasoline range utilizing a platinum-alumina-halide catalyst. M. W. Cox. 2,642,384, June 16.
Refrigerant testing system. F. R. Eck. 2,641,929, June 16.
Register selecting mechanism for accounting machines. W. A. Anderson. 2,642,222, June 16.
Regulator: *See*—
Grinding wheel speed regulator.
Remote control for arc welding. E. W. Bagg. 2,642,515, June 16.
Removing fibers from plant stems, Method and machine for. K. Vonders. 2,641,803, June 16.
Ridger. D. R. Crum. 2,641,983, June 16.
Ring: *See*—
Drive ring. Piston ring.
Ring oscillator pulse producing circuit. H. Gallay. 2,642,526, June 16.
Ring with spring guard, Finger. M. Manne. 2,641,909, June 16.

Rod collar, Self-locking adjustable. C. E. Deardorff. 2,642,299, June 16.
Roll-stripping means for cementing machines. W. P. Osgood. 2,642,032, June 16.
Roller bearing. N. A. Palmgren. 2,642,322, June 16.
Roof drainage system for toll booth canopies. B. Cooper and M. J. Charet. 2,642,017, June 16.
Rotatable welding ground clamp. J. L. Elkins. 2,642,560, June 16.
Salt spray. F. A. Whitney. 2,641,989, June 16.
Sandpaper and backing therefor, Waterproof. C. W. Foss and H. W. Ruell. 2,642,349, June 16.
Saw, Power buck. R. P. Kipp. 2,642,101, June 16.
Scale, Weighing. M. A. Weckerly. 2,642,277, June 16.
Scoring device, Illuminated. W. A. Wilhelm and C. A. Pedersen. 2,641,857, June 16.
Scrap paper spear. W. R. Beeler. 2,642,306, June 16.
Sculpturing. C. Albert. 2,641,859, June 16.
Sealing assembly. L. G. Saywell. 2,642,298, June 16.
Seat: *See* —
Adjustable automobile seat.
Selective distributing apparatus. H. L. Glaze and R. C. Beltz. 2,642,177, June 16.
Selector switch with bias, Rotary. D. W. Johnson. 2,642,502, June 16.
Self-centering cutter. W. R. Vosper. 2,642,137, June 16.
Separable fastener. R. A. Hartman. 2,641,814, June 16.
Separating hydrocarbons with thiourea. E. Gorin and R. E. Kinney. 2,642,424, June 16.
Separation of hydrocarbons and hydrocarbon derivatives. A. W. Francis. 2,642,421, June 16.
Separation of hydrocarbons and hydrocarbon derivatives. E. Gorin. 2,642,422, June 16.
Separation of wax and asphalt from hydrocarbon oil. F. L. Dennis, W. H. King, and H. C. Myers. 2,642,379, June 16.
Separation of wax from residual lubricating oil. J. I. Barnes and A. G. Pukkila. 2,642,378, June 16.
Separator: *See*—
Component color separator.
Separator sheet for filing appliances. J. H. Talmage and R. W. Finley. 2,642,067, June 16.
Servo loading stand. S. P. Altman. 2,641,925, June 16.
7-bromo-5-chloroisatin and the corresponding sodium salt of isatic acid, Producing. R. F. Coles. 2,642,439, June 16.
7-dehydrosterols, Production of. R. Kapp, S. Chodroff, and L. R. Sotield. 2,642,446, June 16.
Sewing machine attachment for basting. J. P. Enos. 2,642,021, June 16.
Shaft mucker. E. B. Royle. 2,642,199, June 16.
Shaft tightener insert. W. Van Dyke. 2,642,321, June 16.
Shaping, feeding, and sheeting of dough, Means for continuous. D. W. Enoch. 2,642,013, June 16.
Sheet registering apparatus. H. T. Backhouse. 2,642,284, June 16.
Sheet registering mechanism. A. J. Albrecht. 2,642,283, June 16.
Sheeting machine for dough. E. M. Crosland and J. F. Naylor. 2,642,014, June 16.
Shock mount. E. Pletz. 2,642,252, June 16.
Shock strut. W. B. Westcott, Jr. 2,642,278, June 16.
Shoe and heel attached thereto. J. F. Leahy and G. F. C. Burke. 2,641,852, June 16.
Shoe last. H. G. Clausing. 2,641,783, June 16.
Shot hole array for eliminating horizontally traveling waves. J. P. Woods. 2,642,146, June 16.
Shoulder bag strap keeper. F. P. Syracuse. 2,641,760, June 16.
Shower bath for invalids. O. K. Chapin. 2,641,770, June 16.
Signal: *See*—
Vehicle direction signal.
Signaling system, Multichannel pulse. M. M. Levy. 2,642,497, June 16.
Silencer with a buffer chamber, Baffle type. E. R. Dearing. 2,642,147, June 16.
Siloxane boundary lubricants. C. C. Currie. 2,642,395, June 16.
Silyl aromatic compounds. F. H. Winslow. 2,642,415, June 16.
Skate guard, Rubber based metallic. D. F. Condon. 2,642,291, June 16.
Sketching apparatus. T. W. Garriss. 2,641,840, June 16.
Sleeve puller. W. H. Helton. 2,641,831, June 16.
Sleigh, Child's. G. Fortin. 2,642,292, June 16.
Smoking pipe. A. B. Modine. 2,642,069, June 16.
Snowplow attachment. J. A. Holm. 2,642,294, June 16.
Sodium carbide and acetylene, Production of. H. N. Gilbert. 2,642,347, June 16.
Solutions of polymers of acrylonitrile. J. B. Dickey, T. E. Stanin, and H. W. Coover, Jr. 2,642,406, June 16.
Sorting device, Card. J. H. Page. 2,642,066, June 16.
Spaceband and manufacturing same. G. Riegert. 2,642,181, June 16.
Spark plug mechanism, Antechamber type. G. F. Wright. 2,642,054, June 16.
Special boring bar. D. White. 2,641,940, June 16.
Speed sensing device, Fluid pressure. F. P. Sollinger. 2,642,275, June 16.
Spindle construction, High-speed. A. G. Plimmer. 2,641,970, June 16.
Spindle, Double twist. K. Landolt. 2,641,896, June 16.
Spinning polyvinyl alcohol fibers. T. Tomonari and M. Akahoshi. 2,642,333, June 16.
Spool stripper. R. L. Sjostrom. 2,641,821, June 16.
Spray gun. E. E. King. 2,642,317, June 16.
Spring construction. C. S. Reed. 2,642,125, June 16.
Spring hinge, Counterbalancing. P. W. James and H. G. Reynolds. 2,641,795, June 16.
Stabilized solutions of acrylonitrile polymers and stabilized solvent. T. E. Stanin, J. B. Dickey, and H. W. Coover. 2,642,408, June 16.
Stall structure, Cow. H. J. Merrill. 2,642,037, June 16.
Stamp applying machine. F. Gehring. 2,642,200, June 16.
Stand: *See*—
Adjustable support stand. Servo loading stand.
Collapsible stand.
Steaming, forming, finishing, and restoring garment pockets, Method of and an apparatus for. R. W. Davis. 2,642,209, June 16.
Steering system, Automatic. A. M. MacCallum. 2,642,554, June 16.
Stirrup, Safety. T. C. Evans. 2,641,883, June 16.
Stockings for varicose veins, Producing. A. E. J. M. Neumager. 2,641,914, June 16.
Stopcock adapter, Pressure-tight. B. M. Stone and R. Gilmont. 2,642,258, June 16.
Stopper and pourer, Bottle. S. A. Renzi. 2,642,207, June 16.
Straightening apparatus. I. J. Van Huffel. 2,642,115, June 16.
String for musical instruments, Metal. P. E. Jensen. 2,641,949, June 16.
Subcaliber attachment for barrels of guns. J. M. Dial. 2,641,860, June 16.
Support: *See*—
Electric lighting fixture support. Female breast support.
Mine roof support.
Support for retractable ladder for vehicles. V. E. Jennings. 2,642,217, June 16.
Support for sound-reproducing apparatus. E. W. Swanson. 2,642,327, June 16.
Surface-active composition. J. C. Harris. 2,642,400, June 16.
Swage rifling method. F. W. Sampson. 2,641,822, June 16.
Swinging door. V. McLean. 2,642,164, June 16.
Switch: *See*—
Adjustable multiple circuit switch. Electromagnetic switch.
Coaxial transmission line switch. Fail safe limit switch.
Mercury or liquid contact switch.
Switch. R. C. Ingwersen. 2,642,510, June 16.
Switch. G. J. Mucher. 2,642,506, June 16.
Switch control mechanism. E. R. Price. 2,642,484, June 16.
Synchronizer. J. T. Anderson. 2,642,234, June 16.
System for energizing electrical precipitators and the like. P. C. Backer and H. E. Van Hoesen. 2,642,149, June 16.
Synthetic lubricating oil. L. A. Mikeska and P. V. Smith, Jr. 2,642,452, June 16.
Table and bench combination, Foldable. M. C. Borns. 2,642,123, June 16.
Tachometer, Magnetic drag. J. H. Andresen, Jr. 2,642,274, June 16.
Telephone lock. A. L. Hall and H. B. Dyer. 2,642,501, June 16.
Telephone pay station coin box system. J. R. Dewar. 2,642,496, June 16.
Telephone system, Route-selecting automatic. F. P. Gohorel. 2,642,488, June 16.
Television cabinet back. G. M. Regnier. 2,642,566, June 16.
Television receiver. A. Cotsworth, III. 2,642,491, June 16.
Television type facsimile transmission system. J. H. Hammond, Jr. 2,642,492, June 16.
Temperature responsive actuator. J. A. Wasser. 2,642,309, June 16.
Tent, Bed. A. V. Jensen. 2,641,776, June 16.
Tertiary - aminoalkyl 4 - substituted - 2 - (tertiary-aminoalkoxy) benzoates and their synthesis. R. O. Clinton and S. C. Laskowski. 2,642,429, June 16.
Testing terminal banks, Means and method for. J. H. Wilson. 2,642,481, June 16.
Thermal radiography using phosphors. F. Urbach. 2,642,538, June 16.
Thermal-sensitive actuator for fire alarms. H. A. Rike. 2,642,511, June 16.
Thermocouple mounting for use in molten steel. J. I. Dodson. 2,642,468, June 16.
Thermometer, Floatable. E. R. Kebbon. 2,641,930, June 16.
Thiolurethane quaternary ammonium salts and preparing them. J. Weijlard and M. Tishler. 2,642,450, June 16.
Thiolurethanes and preparing them. J. Weijlard and M. Tishler. 2,642,451, June 16.
Thread cutter. C. P. Bergstrom. 2,642,095, June 16.
Thread cutter for looms. C. Darwin. 2,642,094, June 16.
Three-dimensional dendritic sodium chloride crystals, Production of. W. E. May and T. R. Scott. 2,642,335, June 16.

Thyroprotein, Producing. E. S. West and J. T. Van Bruggen. 2,642,426, June 16.
Tile manufacturing machine. C. Peavy. 2,641,819, June 16.
Timecard rack. M. L. Goodman. 2,642,189, June 16.
Timekeeper, Universal. F. Galley. 2,641,898, June 16.
Timepiece with chronograph. R. H. Jeanneret. 2,641,900, June 16.
Tip-up extension for air brake levers. A. W. McKee. 2,641,939, June 16.
Tire casing spreader. W. R. Perry. 2,642,264, June 16.
Tire tool. W. J. Cox. 2,642,265, June 16.
Toaster, Electric. D. W. Morphy and W. M. Russell. 2,641,993, June 16.
Tool: *See*—
  Force applying tool.
  Hinge adjusting and bending tool.
  Hose covering stripping tool.
  Tire tool.
Tool for eye-screws, Driving. J. H. Alliano. 2,642,105, June 16.
Tool for self-tapping inserts, Driver. F. W. Braendel. 2,641,948, June 16.
Tool joint lubricator. H. F. Griffin and M. C. Wright. 2,642,034, June 16.
Toothbrush cabinet. F. C. Sprinkle. 2,642,331, June 16.
Torsion shaft in flying shears, Adjustable. J. E. Erhardt, Jr., and J. S. Duffy. 2,641,937, June 16.
Toy gun. W. J. Watkins. 2,642,057, June 16.
Toy gun, Paper bursting. A. F. Langoa. 2,641,868, June 16.
Toy locomotive. J. P. Gowland. 2,641,865, June 16.
Toy rocket. V. R. Gersmehl, Sr. 2,642,289, June 16.
Toy steering mechanism. D. D. Raze. 2,641,869, June 16.
Toy, Walking figure. J. Villemejane. 2,641,864, June 16.
Toy, Wheeled. J. P. Gowland. 2,641,863, June 16.
Tractor with six driven wheels. W. L. Brewer, Jr. 2,642,144, June 16.
Traffic light. M. Dapoz. 2,642,363, June 16.
Transfer apparatus. R. E. Cross. 2,642,179, June 16.
Transport device for disk harrows. R. J. Ireland. 2,641,885, June 16.
Trap: *See*—
  Ion trap.
Treating keratinous yarns and compositions therefor. O. P. Cohen. 2,642,332, June 16.
Treating method for high-boiling esters. C. A. Cohen and F. Knoth, Jr. 2,642,389, June 16.
Treating of gaseous mixtures. J. W. Woolcock. 2,642,154, June 16.
Trimming mechanism for sewing machines. F. W. Breul. 2,642,020, June 16.
Truck indexing mechanism. G. Offutt and W. M. Briner. 2,642,221, June 16.
Truing mechanism, Automatic. F. S. Haas. 2,641,873, June 16.
Tube: *See*—
  Cold cathode discharge tube.
Tube closing system. H. Kissling. 2,642,208, June 16.
Tube crack-off machine, Continuous. C. Eisler. 2,641,870, June 16.
Tubes, Making corrugated. M. A. Lamb, J. J. Klein, W. C. Stranberg, and J. H. Frankowski. 2,641,830, June 16.
Tuner indicator and control. R. C. Carlson. 2,642,026, June 16.
2-ethyl-hexanol-1 esters of the Friedel-Crafts maleic anhydride-aromatic hydrocarbon adducts and process. P. F. Bruins, E. P. Wilkinson, and E. P. Rittershausen. 2,642,455, June 16.
2-hydroxyethyl 2-phenylethyl sulfide as a fungicide. J. Dazzi. 2,642,373, June 16.
Two-shoe industrial type brake. A. W. Bedford, Jr., and E. F. Goetz. 2,642,160, June 16.
2-sulfobenzoic acid, Preparing. F. B. Erickson. 2,642,458, June 16.
Uniform dressing of contact rolls. C. H. Boehm. 2,641,872, June 16.
Urea-olefin complexes. E. Gorin. 2,642,423, June 16.
Vacuum cleaner with bag ejector. L. P. Borkoski and R. C. Lampe. 2,642,151, June 16.
Vacuum hair removal system for barber shops. R. A. Coult. 2,641,790, June 16.
Valve: *See*—
  Auxiliary pressure relief, vacuum relief, and dump valve.
  Combination pressure relief, vacuum relief, and dump valve.
  Flow control valve.
  Hydraulic shutoff valve.
  Packless valve.
  Vent valve.
Valve. C. H. Armstrong. 2,642,254, June 16.
Valve. C. C. Brown. 2,642,140, June 16.
Valve. A. W. Catlin. 2,642,259, June 16.
Valve. J. M. Johnson. 2,642,262, June 16.
Valve. T. A. Stehlin. 2,642,256, June 16.
Valve. H. C. Waterman. 2,642,077, June 16.
Valve and method of controlling fluid flow, Loading. R. M. Conklin and H. W. Herring. 2,642,086, June 16.
Valve for carburetor gaskets, Air control. C. F. Christie. 2,642,089, June 16.
Valve for fluid heating systems, Temperature responsive relief. F. H. Mueller and E. E. Tinker. 2,642,229, June 16.
Valve mechanism. N. A. Christensen. 2,642,087, June 16.
Valve mechanism. R. C. Russell. 2,642,050, June 16.
Valve mechanism, Oscillating. C. F. Carter. 2,642,215, June 16.
Valve mechanism, Self-adjusting. R. C. Russell. 2,642,051, June 16.
Valve operating mechanism. R. C. Russell. 2,642,048, June 16.
Valve operation compensating mechanism. R. C. Russell. 2,642,049, June 16.
Valve regulator control, Presetting and quick operating. C. Y. Strong. 2,642,083, June 16.
Valve structure. F. H. Mueller, and W. J. Bowan. 2,642,257, June 16.
Valve with capillary drain tube, Automatic hygroscopic air vent. W. J. Woolley. 2,642,078, June 16.
Vehicle direction signal. L. Twist. 2,642,489, June 16.
Vehicle tow coupling. H. C. Riemann. 2,642,295, June 16.
Vending machine, Selective article. K. E. Hamann. 2,642,171, June 16.
Veneer cutting machine. R. S. Burnett. 2,642,136, June 16.
Vent valve. R. L. Gates. 2,642,261, June 16.
Ventilator. J. N. Burgan. 2,641,987, June 16.
Vibration isolator. J. Markowitz. 2,642,253, June 16.
Vise having wedge clutch, Screw-operated. C. S. L. Werne. 2,641,947, June 16.
Voice frequency signaling circuit. W. W. Fritschi, R. O. Soffel, and A. Weaver. 2,642,300, June 16.
Walking appliance. H. L. and H. C. Pedley, and C. E. Balluff. 2,642,074, June 16.
Wall alignment apparatus. M. Zeno. 2,641,846, June 16.
Wall heater. J. H. Hollingsworth and K. L. Bedell. 2,642,270, June 16.
Wall-outlet box. P. Temple. 2,642,201, June 16.
Washer: *See*—
  Foot washer.
Washing machine with rotatable tub having a centrifugally operated valve. T. R. Smith. 2,641,918, June 16.
Washing machine with vacuum drying. G. W. Johnson. 2,641,916, June 16.
Watchcase. A. J. Geoffrion. 2,641,901, June 16.
Water detector. W. E. Lasky and R. W. Senff. 2,642,478, June 16.
Water heater. J. Berger. 2,642,271, June 16.
Water removing device for vehicle ventilating windows. A. J. Bohn. 2,642,308, June 16.
Wave form converter. H. J. Horn and C. M. Russell. 2,642,525, June 16.
Wave translating system. J. G. Kreer, Jr. 2,642,473, June 16.
Web interfolding apparatus and method. O. E. Teall. 2,642,270, June 16.
Weeder, Garden. G. S. Butler. 2,642,305, June 16.
Weighing and packaging machine. M. B. Monson. 2,642,276, June 16.
Weight classifier, Mechanical. A. Horner and P. E. Story. 2,642,184, June 16.
Well pipe vibrating apparatus. D. B. Grable and W. A. Vock. 2,641,927, June 16.
Wet strength paper, Manufacture of. H. W. Macklaney and S. J. Schultz. 2,642,360, June 16.
Wheel extricating attachment and cable. E. J. Smith. 2,642,235, June 16.
Window, Display. W. E. McCormick. 2,641,953, June 16.
Window frame tear-off flange. S. Spector and G. J. Teplanski. 2,641,805, June 16.
Window guard. M. T. Montefusco. 2,642,134, June 16.
Winged wheeled harrow. W. T. Graham. 2,641,886, June 16.
Wiper blade, Articulated. A. Rappl. 2,641,789, June 16.
Work holder. J. G. Zummach. 2,641,823, June 16.
Yarn feeding method and apparatus for knitting machines. G. C. A. Alric. 2,641,913, June 16.
Yarn tensioning device. E. J. Heizer. 2,642,236, June 16.

CLASSIFICATION OF PATENTS

ISSUED JUNE 16, 1953

NOTE.—First number—class, second number—subclass, third number—patent number.

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CLASSIFICATION OF DESIGNS

D11— 1: Des. 169,843
D20— 4: Des. 169,848
D29—20: Des. 169,871
D33—14: Des. 169,867
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D34— 2: Des. 169,846
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D45—16: Des. 169,849
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D55— 1: Des. 169,834
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D66— 1: Des. 169,855
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D74— 1: Des. 169,859
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D81—10: Des. 169,876
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D90—20: Des. 169,835
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D92— 1: Des. 169,838
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D92— 1: Des. 169,845
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D93— 3: Des. 169,858

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals District of Columbia Circuit

CUPPLES v. WATSON, COMMISSIONER OF PATENTS

No. 11401. Decided March 26, 1953

[— F.2d —; 97 USPQ 11]

ADMISSION TO PRACTICE BEFORE PATENT OFFICE—PROPER TO REQUIRE THAT CANDIDATE PASS EXAMINATION.

The decision of the District Court, refusing to require the Commissioner of Patents to admit the appellant to practice before the Patent Office, despite his failure to pass an examination, is affirmed.

APPEAL from the District Court of the United States for the District of Columbia.

AFFIRMED.

Homer L. Cupples, appellant pro se.

E. L. Reynolds (*Joseph Schimmel* of counsel) for the Commissioner of Patents.

Before EDGERTON, WILBUR K. MILLER, and PRETTYMAN, *Circuit Judges*

PER CURIAM:

Appellant seeks to require appellee, the Commissioner of Patents, to admit him to practice before the Patent Office despite his failure to pass an examination. The trial judge thought it his duty, among other things, to read the examination questions and appellant's answers to them and to review the grading of these answers to the extent of determining that "by reasonable tests, the officials of the Patent Office acted fairly and without discrimination in the grading of the plaintiff's examination, pursuant to a uniform standard, that the plaintiff failed to pass the required examination," etc. *Cupples* v. *Marzall*, 101 F. Supp. 579, 583. We need not decide whether in our opinion this kind of review of the examination was necessary. In all other respects we agree with the opinion of the District Court.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE KEBRICH

No. 5922. Decided February 6, 1953

[201 F.2d 951; 96 USPQ 411]

1. PATENTABILITY—ANTICIPATION—COMPOSITION ANTICIPATED BY REFERENCE SHOWING COMPOSITION MIXED WITH OTHER SUBSTANCES.

The case of *In re Williams*, 36 CCPA 756, 171 F.2d 319, 80 USPQ 150, which is authority for the principle that the existence of a compound as an ingredient of another substance does not negative novelty in a claim to a pure compound, *Held* to be distinguished from a case in which the claims do not call for the compound of any particular degree of purity.

2. CLAIMS — INTERPRETATION — APPLICATION CLAIMS GIVEN BROADEST INTERPRETATION.

"Whatever may be the practice of the courts in the interpretation of claims in infringement proceedings in order to sustain patents once granted, it is very definitely settled by a line of consistent decisions rendered during a long period of time that in the initial consideration of the question of patentability neither the tribunals of the Patent Office nor the courts in reviewing their action may properly read unexpressed limitations into claims, and it is equally as well settled that, so limited, the tribunals and the reviewing courts in the initial consideration of patentability will give claims the broadest interpretation which, within reason, may be applied."

3. PATENTABILITY — ANTICIPATION — COMPOSITION OF MATTER—OPERATIVENESS OF REFERENCE PROCESS OF PRODUCTION IMMATERIAL.

Held that it is immaterial whether or not the appellant has successfully demonstrated the inoperativeness of the reference process since it is the settled rule that where a product is clearly disclosed in a publication, the operativeness of its disclosed process of production is immaterial.

4. SAME—PARTICULAR SUBJECT MATTER—DIBASIC LEAD SALTS OF FATTY ACIDS.

Certain claims to a dibasic lead salts of fatty acids *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 729,402.

AFFIRMED.

Harold T. Stowell (*John O. Evans, Jr.*, of counsel) for appellant.

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E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting the four product claims in appellant's application for patent reading:

12. A new chemical compound corresponding to the general formula 2PbO.Pb ($C_nH_{2n-1}COO)_2$ where "n" represents a number of carbon atoms at least 5 and up to 29.

13. A new chemical compound, dibasic lead stearate, corresponding to the formula 2PbO.Pb($C_{17}H_{35}COO)_2$.

(It is our understanding that the formula in claim 13 has the same meaning to those skilled in the chemical art as $PbSt_2 2PbO$, which is hereinafter referred to with explanation.)

14. A new chemical compound, dibasic lead caproate, corresponding to the formula 2PbO.Pb($C_5H_{11}COO)_2$.

15. A new chemical compound, dibasic lead laurate, corresponding to the formula 2PbO.Pb($C_{11}H_{23}COO)_2$.

Five claims covering the method of manufacturing the product were held allowable by the Primary Examiner.

The following respecting the invention is taken from the brief before us on behalf of appellant:

The invention is based upon appellant's discovery that in the presence of relatively small amounts of aliphatic alcohols and ethers, such as isobutanol and the monobutyl ethers of ethylene glycol and diethylene glycol, lead monoxide (PbO) readily combines with long chain fatty acids containing from six to thirty carbon atoms to produce well defined lead salts of the fatty acids of good color and containing a minimum of water-soluble salts and other impurities.

Of particular interest is appellant's discovery that by the use of his new method it is possible to produce basic lead salts of the higher fatty acids of a type not heretofore available. • • •

The following is from the decision of the Board:

The appealed claims relate to assertedly novel chemical compounds. Claim 12 is addressed to a class of lead salts of saturated fatty acids having from 6 to 30 carbon atoms. The lead salts claimed are dibasic lead soaps containing a greater amount of lead than is found in the normal or neutral soap. Claim 13 is addressed to the stearate; claim 14 to the caproate, and claim 15 to the laurate. It appears to be conceded that normal lead soaps of different classes of acids are well known in the art but it is asserted that the dibasic compounds of the appealed claims are novel.

In rejecting the product claims the Primary Examiner cited two scientific articles as references.

The principal article was one by Balfe and Chatfield, which appeared in the Journal of the Society of Chemical Industry in February 1940, relating to "The Interaction of Litharge with Carboxylic Esters." This reference is hereinafter referred to as Balfe et al.

The other is stated in the record as "Pages 197 to 199 inclusive, 204 and 205 of Elliott's 'The Alkaline-Earth and Heavy-Metal Soaps' Reinhold (1946)." This reference is hereinafter referred to as Elliott.

The brief for appellant declares:

• • • These new salts are formed by the reaction of lead monoxide and fatty acid in the proportion of three mols of PbO to two mols of fatty acid. They have the general formula 2PbO.Pb($C_nH_{2n-1}COO)_2$ wherein n is an integer from 5 to 29.

It will be observed that the foregoing formula is the one stated in claim 12, supra.

It was further said in the brief for appellant:

Typical of the new basic lead salts of the invention is dibasic lead stearate, 2PbO.Pb($C_{17}H_{35}COO)_2$.

That is the formula given in appealed claim 13, supra, which, as hereinbefore stated, has the same meaning as $PbSt_2 2PbO$, a formula specified in the Balfe et al. reference.

It is pointed out in the brief of the Solicitor for the Patent Office that claim 13 is directed to a species of the broader subject matter claimed in claim 12, and the brief states, we think correctly, "• • • it is obvious that if claim 13 is met by the prior art, claim 12 is likewise met."

We think also that, as stated in substance in the Solicitor's brief, it is evident from a mere inspection of claim 13 that appellant claims invention in a chemical compound, dibasic lead stearate, corresponding to the formula recited in the claim.

A pertinent definition of "dibasic" as used in chemistry, according to Webster's New International Dictionary, is "containing two equivalents of a base."

In the Balfe et al. article, cited as the principal reference, many experiments conducted by them with different material are recited. One, designated "Expt. (*j*). Ethyl Stearate.—" reads in part as follows:

The lead salts were dissolved in chloroform which contained 5% of methyl alcohol, and the filtered solution was allowed to evaporate at room temperature. The lead salts which separated were recrystallised seven times in the same way. The lead contents and colours of the solids were: after two recrystallisations, 46.4%, light brown; four, 45.4%, light brown; five, 43.6%, buff; seven, 37.6%, white (PbSt requires 26.8% Pb; $PbSt_2.PbO$, 41.6%; $PbSt_2.2PbO$, 50.9%; $PbSt_2.3PbO$, 57.4%).

25 g. of the original crude lead compounds were dissolved in chloroform and precipitated by acetone. The precipitate was extracted with hot ethyl alcohol and then with hot chloroform.

The portion soluble in ethyl alcohol (10.1 g.) contained 30.4% Pb (27.0% after crystallisation) and consisted of lead stearate. The chloroform-soluble portion (5.4 g.) contained 47.5% Pb and was a mixture of $PbSt_2.PbO$ and $PbSt_2.2PbO$. The insoluble residue (6.5 g.; 56.9% Pb) consisted of $PbSt_2.3PbO$.

It has been explained hereinbefore that the formula $PbSt_2 2PbO$ means to those familiar with chemical formulae the same substance as that defined in claim 13 by the formula

$$2PbO.Pb(C_{17}H_{35}COO)_2$$

The brief of the Solicitor for the Patent Office states:

• • • "$PbSt_2$" of the reference is but a shorthand expression for the stearate moiety of the appealed claim, for "St" in the reference description stands for stearate. Any chemist having knowledge of structural and empirical formulae would conclude without question that the compound designated as "$PbSt_2.2PbO$" is dibasic lead stearate.

The correctness of the assertion so made in the brief of the Solicitor, which of course was prepared by an expert in chemistry, is not challenged by counsel for appellant, but counsel does not concede that the presence of the formula in the reference constitutes sufficient disclosure.

It is the position of counsel for appellant that the cited references do not *clearly* disclose dibasic lead stearate as a new chemical compound. The brief on behalf of appellant discusses the Balfe et al. "experiment (*j*)" hereinbefore referred to, its discussion of the paragraph containing the formula relied upon by the tribunals of the Patent Office being as follows:

• • • the article states that 25 grams of the original lead compounds were dissolved in chloroform and precipitated by acetone. The precipitate was extracted with hot ethyl alcohol and then with hot chloroform. The ethyl alcohol solution portion was found to contain 30.4% Pb and was assumed to be normal lead stearate. The chloroform soluble portion was found to contain 47.5% Pb and it is stated was a mixture of dibasic lead stearate and monobasic lead stearate. It should be noted, however, that at this point, no other indication of the character of the compound formed is shown except the lead content and it is apparent that the conclusion that this compound was a mixture of dibasic and monobasic stearate is based entirely on the fact that the lead content falls between the theoretical lead contents of these two compounds. On this basis, the mixture produced by Balfe et al. could just as logically be a mixture of tribasic and normal lead stearate. An insoluble residue is also reported as containing 56.9% Pb to which is ascribed the formula of tribasic lead stearate. The nearest that Balfe et al. ever comes to disclosing the dibasic lead stearate compound is found in his reference to a mixture allegedly of monobasic and dibasic stearate.

There is no unequivocal statement that dibasic lead stearate was produced, and in view of the fact that only a mixture of intermediate composition was obtained it is obviously questionable on the face of the article whether the dibasic lead stearate described and claimed by appellant was obtained by the authors of the article. Standing by itself the article is at most conjectural and not an anticipation of appellant's invention.

The brief then asserts:

But the fact is that dibasic lead stearate is not produced by the method described. This is definitely and convincingly established by the detailed experiments set forth in the affidavits of record. These affidavits clearly show that whatever the mixture of intermediate composition obtained by Balfe et al. contained it did not contain the dibasic lead stearate of appellant's invention.

As has been indicated, the statement in the brief of the Solicitor for the Patent Office to the effect that the formula in claim 13 is identical in meaning with the formula named in the Balfe et al. "experiment (*j*)" is not challenged by counsel for appellant, nor is it questioned that such identity of meaning is familiar to those skilled in the chemical art. No formula or element in the other experiments is more prominently mentioned nor more emphasized than that one. We think, therefore, that disclosure sufficient to meet the requirements of the statute, 35 U. S. C. 102 (1952) (formerly R. S. 4886, 35 U. S. C. 31), must be held to have been established.

We have not overlooked the statement in the description given by Balfe et al. of their experiment (*j*) to the effect that the chloroform-soluble portion of the compound used was a *mixture* of dibasic lead stearate and monobasic lead stearate and the argument on behalf of appellant predicated upon that fact has been duly considered. The case of *In re Williams*, 36 CCPA (Patents) 756, 171 F.2d 319, 80 USPQ 150, in which we said in effect that the existence of a compound as an ingredient of another substance does not negative novelty in a claim to a pure compound, is claimed to support the contention that there was not a clear disclosure of dibasic lead stearate.

[1] There is, we think, a clear distinction of fact between the *Williams* case and the instant case, in that in the former case there was a definite limitation as to the chemical compound of the claim there involved, which excluded the pertinency as a reference of a *mixed* compound of the type there cited—a situation not present in the instant case.

Speaking particularly of claim 13, supra, the brief of the Solicitor for the Patent Office points out that:

• • • It does not call for a dibasic lead stearate of any particular degree of purity. It defines only the chemical compound regardless of purity or form or manner in which it is produced or marketed. It covers broadly the pure compound, and mixtures of such compound with other materials; it also covers the dry salts, solutions thereof, and compositions containing the same. While appellant's argument conveys the suggestion that the claim is limited to the pure compound, and appellant's specification states that an object of the invention is the manufacture of purer and more commercially valuable products, it should be noted that there is disclosed also the fact that mixtures of the basic lead salts may be formed by varying the ratio of lead oxide used in the process, and by using mixed acids.

[2] Whatever may be the practice of the courts in the interpretation of claims in infringement proceedings in order to sustain patents once granted, it is very definitely settled by a line of consistent decisions rendered during a long period of time that in the initial consideration of the question of patentability neither the tribunals of the Patent Office nor the courts in reviewing their action may properly read unexpressed limitations into claims, and it is equally as well settled that, so limited, the tribunals and the reviewing courts in the initial consideration of patentability will give claims the broadest interpretation which, within reason, may be applied.

We have hereinbefore quoted from the brief on behalf of appellant, the allegation that dibasic lead stearate is not produced by the method described in the Balfe et al. article. The allegation so made is based upon the affidavits of two gentlemen whose qualifications as research chemists seem to be well established by the affidavits, who testified that they made tests of the experiment (*j*) recited in the Balfe et al. article, and who declared in effect that the process so defined was found to be inoperative—that is, that it failed to produce dibasic lead stearate.

In the brief of the Solicitor for the Patent Office the affidavit is analyzed with much more care than it was by either the Primary Examiner or the Board of Appeals, and specific instances of failure on the part of affiants to follow the process which Balfe et al. recited are pointed out. [3] The instances would seem to be quite important, but their detailed recital here is deemed unnecessary because of the well settled rule of law respecting inoperativeness where pertinent formulae are disclosed in the prior art.

In the case of *In re Crosley et al.*, 34 CCPA (Patents) 882, 884–5, 159 F.2d 735, 72 USPQ 499, we said:

Furthermore, this court is committed to the doctrine that where a product is clearly disclosed in a publication, the operativeness of any of the processes by which it is claimed the product could be produced is immaterial, and that the disclosure of the composition is sufficient to anticipate a claim therefor. *In re John W. Marden and Harvey C. Bentschler*, 18 CCPA (Patents) 1119, 48 F.2d 428, 8 USPQ 515, and cases therein cited; *In re Von Bramer et al.*, 29 CCPA (Patents) 1018, 1024, 127 F.2d 149, 53 USPQ 345.

There has been no serious contention before us that claims 12, 14, and 15 are allowable if the decision of the Board as to claim 13 be upheld, and it is unnecessary, therefore, to analyze and discuss those claims.

[4] The decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec 4921, R. S

1,850,190, H. H. Welch, Composite gem and jewel, D. C., S. D. N. Y., Doc. 37/363, *H. H. Welch* v. *Coro, Inc.* Consent judgment, patent held valid and infringed, complaint dismissed Mar. 27, 1953.

2,017,865, E. K. Morgan, Machine tool; 2,104,756, A. Oberhoffken, Metal removing machine; 2,108,823, A. H. Lyon, same; 2,160,476, F. J. Kampmeier, Machine tool; 2,193,840, Oberhoffken & Strachan, Apparatus for metal removal, D. C., N. D. Ill. (Freeport), Doc. 51c10, *The Ingersoll Milling Machine Co.* v. *W. F. & John Barnes Co.* By stipulation, order dismissing cause with prejudice Mar. 31, 1953.

2,104,756. (See 2,017,865.) 2,108,823. (See 2,017,865.)

2,160,476. (See 2,017,865.)

2,177,627, R. G. Drew, Adhesive sheeting, D. C., S. D. N. Y., Doc. 71/120, *Technical Tape Corp.* v. *Minneapolis Mining & Mfg. Co.* Reopened by order on mandate of U. S. C. A. reversing order of Mar. 12, 1952—dismissing action Jan. 30, 1953.

2,193,840. (See 2,017,865.)

2,210,846, E. P. Aghnides, Fluid mixing device, D. C., N. D. Ill. (Chicago), Doc. 50c1178, *E. P. Aghnides* v. *Wrightway Engineering Co.* Complaint dismissed for want of equity; defendant's counterclaim for declaratory judgment that patient's invalid and void is sustained (notice Mar. 25, 1953).

2,232,826, L. Napolitan, Hair dressing, filed Mar. 27, 1953, D. C., S. D. N. Y., Doc. 83/395, *M. Louis Hair Design Institute* v. *Ingerid Studio of Hair Design et al.*

2,234,534, L. E. Reno, Palmetto cutting and root exterminating machine, filed Apr. 1, 1953, D. C., S D. Fla. (Tampa), Doc. 2324, *L. E. Reno* v. *L. E. Washburn.*

2,304,053, C. A. Kaufman, Stocking and method of knitting, filed Mar. 27, 1953, D. C., M. D. N. C. (Greensboro), Doc. 270S, *Charles A. Kaufman et al.* v. *Wiscasset Mills Co*

2,306,879, B. F. Hamilton et al., Stool or chair, filed Mar. 24, 1953, D. C., N. D. Ohio (Cleveland), Doc. 7001, *Hamilton Mfg. Corp.* v. *The Peters Stamping Co. et al.*

2,318,295, M. Davidow, Jacket construction, filed Mar. 23, 1953, D. C., S. D. N. Y., Doc. 83/340, *Davidow, Inc.* v. *Klein & Klein Sportswear, Inc.*

2,373,285, C. A. Baer, Container, C. C. A., 4th Cir. (Richmond), Doc. 6491, *Thermoseal Products, Inc., et al.* v. *Larus & Bro. Co., Inc.* Decree affirming judgment of district court Mar. 16, 1953.

2,380,112. (See Re. 23,416.)

2,387,664, C. L. Kubista, Fount for poultry and other domestic animals, D. C. Minn. (St. Paul), Doc. 1853, *Doughboy Industries, Inc., et al.* v. *Miller Mfg. Co. et al.* Judgment favor of defendants Mar. 9, 1953.

2,507,474, F. W. Lindblom, Brow-bar support for goggles, filed Mar. 26, 1953, D. C. R. I. (Providence), Doc. 1555, *Welsh Mfg. Co.* v. *Atlantic Optical Products, Inc., et al.*

2,538,830, S. E. Collinson, Temple for spectacle frames, filed Mar. 30, 1953, D. C. N. J. (Newark), Doc. 268/53, *Newport Optical Mfg. Co., Inc.* v. *Victory Optical Mfg. Co., Inc.*

2,549,153, J. W. Ackermans, Folding top for automobiles, C. C. A., 4th Cir. (Richmond), Doc. 6526, *J. W. Ackermans* v. *General Motors Corp.* Decree reversing judgment of district court Mar. 6, 1953.

2,596,063, J. W. Anderson, Windshield wiper blade linkage assembly, filed Mar. 26, 1953, D. C., W. D. N. Y. (Buffalo), Doc. 5677, *Anderson Co. et al.* v. *Trico Products Corp.*

Re. 23,184, R. W. Whitbeck, Precoated material and dry lubricating coating composition, D. C., E. D. Mich. (Detroit), Doc. 10538, *Glidon Products Co.* v. *Bruce Products Corp.* Stipulation and order of dismissal without prejudice (notice Mar. 30, 1953).

Re. 23,416 (of 2,380,112), C. W. Kinnear, Drill, filed Mar. 3, 1953, D. C., S. D. Tex. (Houston), Doc. 7385, *Kinnear-Weed Corp.* v. *Reed Roller Bit Co.*

Des. 157,269, J. F. Laskowitx, Chair, filed Mar. 23, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 13315–T, *Contour Chair-Lounge Co., Inc.* v. *Marie-Designer, Inc., et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116: act of July 5, 1946

T. M. 140,650. (See T. M. 315,300.)

T. M. 265,126. (See T. M. 315,300.)

T. M. 285,003, Abbott Laboratories, Hypnotic sedative anesthetic compound, filed Mar. 24, 1953, D. C., S. D. N. Y., Doc. 83/350, *Abbott Laboratories* v. *Park Pharmacy.*

T. M. 311,986, Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine & Cie, Creme de Menthe, filed Mar. 25, 1953, D. C., S. D. N. Y., Doc. 83/361, *Browne Vintners Co., Inc.* v. *Julius Wile Sons & Co., Inc.*

T. M. 313,768, Esquire Publishing Co., Monthly publication, filed Mar. 24, 1953, D. C., S. D. N. Y., Doc. 83/352, *Esquire, Inc.* v. *Bond Handkerchief Co.*

T. M. 315,300, Monsanto Chemical Co., Organic chemicals generally; T. M. 265,126, same, Acetanilid, acetphenetidin (phenacetin), acid salicylic, etc.; T. M. 140,650, same, Certain named chemicals; T. M. 562,119, same, Saccharin soluble and insoluble, filed Mar. 26, 1953, D. C., S. D. N. Y., Doc. 83/387, *Monsanto Chemical Co.* v. *Thoet Corp.*

T. M. 324,636, The Scott & Fetzer Co., Suction cleaners and their structural parts, filed Mar. 1, 1953, D. C., N. D. Okla. (Tulsa), Doc. 3238, *The Scott & Fetzer Co.* v. *D. C. Teter.*

T. M. 379,559, United Laboratories, Inc., Floor construction, filed Mar. 26, 1953, D. C., N. D. Ohio, E. Div., Doc. 30131, *United Laboratories, Inc.* v. *The Monroe Co., Inc.*

T. M. 534,804, Sears, Roebuck & Co., Repairing electrical home appliances; T. M. 538,785, same, Refrigerator and freezer repairing services, filed Mar. 31, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15344–BH, *Sears, Roebuck & Co.* v. *Coldspot Refrigerator Repair Shop et al.*

T. M. 538,785. (See T. M. 534,804.)

T. M. 562,119. (See T. M. 315,300.)

NOTICES

Registration to Practice

The following list contains the names of all applicants for registration to practice before the United States Patent Office who attained passing grades in the examination of February 16, 1953. Information tending to affect the eligibility of any of said applicants on moral or ethical grounds should be furnished the Commissioner of Patents on or before July 16, 1953.

THOMAS F. MURPHY,
Chairman, Committee on Enrollment.

May 26, 1953.

List of Applicants Who Passed the Examination for Registration to Practice Before the Patent Office held February 16, 1953

California

Abelson, Robert C., Hughes Aircraft Co., Culver City, Calif.
Albritton, Elber S., Jr., 2317 Le Conte Ave., Berkeley 9, Calif.
Brown, Joseph W., Shell Development Co., Emeryville, Calif.
Croft, Irene S., 2067 10th Ave., San Francisco 16, Calif.
Flam, Frederick, 2978 Wilshire Blvd., Los Angeles 5, Calif.
Himes, Robert H., 6023 Boeing Place, Los Angeles 45, Calif.
MacArthur, Frederick E., Jr., 1140–A Chelsea, Santa Monica, Calif.
McCloskey, Chester M., 1981 Sinaloa, Altadena, Calif.
McLellan, Joseph F., 3237½ First Ave., San Diego 3, Calif.
Thornton, William F., 2384 Kenwood Ave., San Jose 26, Calif.
Toperzer, Robert S., 217 Bernard Ave., Venice, Calif.

Connecticut

Hauschild, Vernon F., 94 Milford Road, Manchester, Conn.
Hopkins, George H., 10 Howard Ave., East Norwalk, Conn.
Stein, Stefan M., Patent Dept., Winchester Repeating Arms Co., New Haven, Conn.
Watts, Duane E., 2 Harbor View Ave., South Norwalk, Conn.

Delaware

Cornwell, Richard E., 31 Bayard Drive, Claymont, Del.
Lyons, Edmund D., 236 Plymouth Road, Fairfax, Wilmington, Del.
Simmons, George W. F., 1332 Prospect Drive, Wilmington 3, Del.
Walfson, Herbert M., 1203 Kynlyn Drive, Wilmington 3, Del.

District of Columbia

Costello, Leo F., 1606 32nd St., N. W., Washington 7, D. C.
Garfinkle, Irwin P., 2607 Southern Ave., S. E., Washington 20, D. C.
Kelley, David P., 3701 Massachusetts Ave., N. W., Washington 16, D. C.
Manbeck, Harry F., Jr., 3432A Brown St., N. W., Washington, D. C.
Mobille, George T., 3800 Porter St., N. W., Washington 16, D. C.
Ortolani, Frank R., 3715 Second St., S. E., Washington, D. C.
Pallas, Themis C., 1824 19th St., N. W., Washington, D. C.
Stack, George E., 815 15th St., N. W., Washington 5, D. C.
Wilder, Leo, 5311 2nd St., N. W., Washington 11, D. C.

Georgia

Hopkins, George M. M., 1523 Candler Bldg., Atlanta, Ga.

Illinois

Black, John C., 2204 Asbury Ave., Evanston, Ill.
Cass, Myron C., 5036 W. Quincy St., Chicago 44, Ill.
Driscoll, Neil J., 11324 S. Washtenaw Ave., Chicago 43, Ill.
Fugman, Robert L., 3242 Belleplaine Ave., Chicago 18, Ill.
Gens, Henry J., 1421 N. Hoyne Ave., Chicago 22, Ill.
Gordon, Herman J., 7542 S. Kingston Ave., Chicago 49, Ill.
Kotarski, Joseph C., 10648 Avenue B, Chicago 17, Ill.
Lesser, Norton, 1615 W. Albion St., Chicago, Ill.
Markey, Howard T., 2121 S. 11th Ave., Maywood, Ill.
Nelson, Robert T., 437 Leonard St., Park Ridge, Ill.
Steininger, Charles F., 47 165th St., Calumet City, Ill.
Williams, Lynn A., 2300 Board of Trade Bldg., Chicago 4, Ill.

Indiana

Carpenter, David L., 1302 E. Berry St., Fort Wayne, Ind.
Murray, Thomas H., 1115 N. St. Peter St., South Bend, Ind.
O'Brien, James L., 2527 Sampson St., South Bend, Ind.
Smith, Robert C., 1421 E. Ewing Ave., South Bend 14, Ind.
Stevens, L. Bruce, 7326 Delaware Ave., Hammond, Ind.

Maryland

Ahern, John F., 4011 Newton St., Colmar Manor, Md.
Friedman, Robert S., 8110 Tahoma Drive, Silver Spring, Md.
Genovese, Joseph A., 6906 Riggs Road, Hyattsville, Md.
Hintze, William, 8314 14th Ave., Hyattsville, Md.
Rich, Donald J., 6124 41st Ave., Hyattsville, Md.

Massachusetts

Conart, John K., 15 Central St., Needham Heights, Mass.
Lee, Edmund Shackelford, III, Box 84, South Hamilton, Mass.
Lynch, Jeremiah, 24 School St., Room 605, Boston 8, Mass.
Peeton, Lawrence H., 178 N. Main St., Sharon, Mass.
Wolf, David, 37 Charlotte St., Dorchester 24, Mass.

Michigan

Andonian, Joseph K., 2514 Nora St., Kalamazoo, Mich.
Dankert, Lester J., 4747 U. S. 10, Route 1, Freeland, Mich.
Faggan, Joseph E., 15843 Vaughan St., Detroit 23, Mich.
Harrington, Donald J., 14889 Sussex, Detroit, Mich.
Koehncke, John H., 135 Carmel St., Kalamazoo, Mich.
McCulloch, John K., 230 Washington Square Bldg., Royal Oak, Mich.
Morgana, Morley, 6130 Wing Lake Road, Birmingham, Mich.
Parsigian, Vett, 15766 Ferguson, Detroit 27, Mich.
Sowa, Frank W., 17461 Allen Road, Melvindale, Mich.

Minnesota

Ringrand, Arthur E., 5208 Vincent Ave. South, Minneapolis 10, Minn.
Webster, John A. S., 2213 Nicollet Ave., Minneapolis 4, Minn.

Missouri

Peters, Earl C., 111 Edwin Ave., Glendale 22, Mo.
Springgate, Jack R., 5521 Northern, Kansas City 3E, Mo.

New Jersey

Bogucki, Raymond A., Apt. 43D, Parkway Apts., Haddonfield, N. J.
Cella, John T., 441 Lawn Ave., Palisades Park, N. J.
Chace, Dean W., % Patent Dept., Radio Corporation of America, Camden, N. J.
Collins, Warren T., 9 Palmer Square West, Princeton, N. J.
Harris, Charles A., 165 Main St., South Bound Brook, N. J.
Jones, William L., 8 Mountain Ave., Princeton, N. J.
Kimmelman, Nelson E., Franklin Ave., Princeton, N. J.
MacAllister, William H., N. Main St., Cranbury, N. J.
Meagher, William H., 143 Linden Lane, Princeton, N. J.
Murphy, Peter J., Apt. 43D, Parkway Apts., Haddonfield, N. J.
Reilly, James A., 764 Fairacres Ave., Westfield, N. J.
Smith, Robert E., 135 Madison Ave., Elizabeth, N. J.
Stone, Hoffman, 259 Moore St., Princeton, N. J.
Whitacre, Eugene M., Apt. 267–A, Westfield Gardens, 33rd & Westfield Ave., Camden, N. J.

New Mexico

Spensley, William R., 3802 Gold St., Apt. 1, Los Alamos, N. Mex.

New York

Blank, Charles A., 195—10C 67th Ave., Fresh Meadows 65, N. Y.
Borst, Allan W., 10 E. 40th St., New York 16, N. Y.
Byers, Henry E., 397 Pullman Ave., Rochester 15, N. Y.
Cohen, Samuel, 18 Sands Walk, Brooklyn 24, N. Y.
Douthitt, Merton H., 18 Iroquis Road, Ossining, N. Y.
Duft, Donald M., 5 Stuyvesant Oval, New York 9, N. Y.
Enson, Leroy, 635 E. 14th St., New York 9, N. Y.
Enlow, Paul M., 260—11 74th Ave., Glen Oaks, N. Y.
Greenspan, Le Roy, 3470 Cannon Place, New York 63, N. Y.
Gundersen, Sidney, 88 Constant Ave., Staten Island 14, N. Y.
Hamlin, Kenneth B., 463 West St., New York 14, N. Y.
Henson, Floyd H., 259 Brett Road, Rochester, N. Y.
Lamishka, Walter, 204 Lafayette St., Schenectady, N. Y.
Limanek, Stephen J., 210 South Broadway, Tarrytown, N. Y.
Lockhart, Harold W., 463 West St., New York 14, N. Y.
Lundquist, George A., 33 Prospect Ave., Sea Cliff, N. Y.
Nachay, Joseph, 1975 Bathgate Ave., New York 57, N. Y.
O'Connor, Francis M., 645 Morris St., Albany 3, N. Y.
O'Loughlin, James J., 1868 White Plains Ave., Bronx 60, N. Y.
Quillinan, Michael J., 1049 Grand Concourse, Bronx 52, N. Y.
Sanders, Robert J., Jr., 2155–A Daisy Lane, Schenectady 9, N. Y.
Sutton, Allen M., 24 The Plains Road, Levittown, L. I., N. Y.
Wagner, John E., 463 West St., New York 14, N. Y.

Ohio

Claeboe, Bertram F., 4506 Westway Ave., Toledo, Ohio.
Gall, William A., 15416 Benhoff Drive, Maple Heights, Ohio.
Hause, Robert F., 3014 W. Bailey Road, Cuyahoga Falls, Ohio.
Hight, James S., 1367 Nagel Road, Cincinnati 30, Ohio.
Horne, Robert E., 1050 Ivanhoe Road, Cleveland 10, Ohio.
Jacox, William R., 634 Third National Bldg., Dayton 2, Ohio.
Kreske, Gerald H., 637 Central Parkway, S. E., Warren, Ohio.
Powell, Jeston H., Jr., 70 Manor Road, 72A, Akron 13, Ohio.
Roberts, Herbert B., Box 160, RD14, Akron 13, Ohio.
Roberts, Willard W., 1805 N. Star Road, Columbus 12, Ohio.
Schweitzer, Frits L., Jr., 1608 Fifth Ave., Youngstown, Ohio.
Wiedemann, Robert A., 248 E. Main St., Norwalk, Ohio.
Wissinger, Norman R., 45 E. Dixon Ave., Dayton 9, Ohio.

Oklahoma

Roberts, Perry L., 1340 S. Cherokee Ave., Bartlesville, Okla.
Schumacher, Robert K., 2720 S. Florence Drive, Tulsa, Okla.

Pennsylvania

Brannen, Paul M., 11 Mt. Carmel Road, Box 392, RD#1, Verona, Pa.
Brick, Ralph B., Kennilworth Apts., Apt. 712, 5700 Centre Ave., Pittsburgh, Pa.
Cohen, Myron, 5920 Walnut St., Pittsburgh, Pa.
Epstein, Herbert, 5 Tulip Lane, Levittown, Pa.
Hoy, W. Duffield, 437 Main St., Bethlehem, Pa.
Johnston, Chester A., Jr., 317 Sixth St., Oakmont, Pa.
Kellem, Jacob C., 1716 N. 42nd St., Philadelphia 4, Pa.
McClure, Charles A., Thunderhill Farm, New London, Pa.
Moore, Philemon J., 335 Roslyn Ave., Glenside, Pa.
Oberdorfer, Wilson, 34 S. Chubb Drive, Doylestown, Pa.
Olsson, Frederick J., 4380 Dexter St., Philadelphia 28, Pa.
Price, Stanley J., Jr., Box 1226, Pittsburgh 30, Pa.
Robinson, Joseph R., Jr., 6946 Reynolds St., Pittsburgh 8, Pa.
Skillman, Henry H., 2342 Fidelity-Philadelphia Trust Bldg., Philadelphia 9, Pa.

Tennessee

Koris, Gerald A., 301 Villanova Road, Oak Ridge, Tenn.

Virginia

De Grandi, Joseph A., 2991 S. Columbus St., Arlington 6, Va.
Kivlin, Joseph T., Jr., 4106 Fourth St., N., Arlington, Va.
Lawrence, Derek Peter, 1146 Valley Drive, Alexandria, Va.
Martin, Roger L., Route 4, Box 307, Vienna, Va.
Nilsson, Byard Garn, 17 E. Bellefonte, #203, Alexandria, Va.
Patnaude, Edmond T., 4815 S. 29th St., Arlington, Va.
Ruhlman, Terrell L., 5408 4th St., S., Arlington 4, Va.
Shur, Henry, 4724 S. 29th St., Arlington 6, Va.
Stolzy, Albert D., 114 Lynnwood St., Apt. 304, Alexandria, Va.
Thompson, Matthew C., 2813 S. 8th St., Arlington, Va.
Weissenberger, Walter G., 732 Kadola Place, Falls Church, Va.

Washington

Huff, Norman H., West 927 Main Avenue, Spokane 1, Wash.

Wisconsin

Gremban, Steve W., 7325 W. Bluemound Road, Milwaukee 13, Wis.
Groh, Irvin L., 2562 N. 49th St., Milwaukee, Wis.
Herriot, Howard M., Apt. 2, 5527 W. Lincoln Ave., West Allis 14, Wis.
Holtz, Guenther W., 4576 N. 38th St., Milwaukee 16, Wis.
Lathrop, Trayton Le Moine, Rm. 305, 122 W. Washington Ave., Madison 3, Wis.
Mueller, Egon W., Patent Dept., Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Nienow, Harvey C., 2856 N. 56th St., Milwaukee 10, Wis.
Sawall, Eugene R., 735 N. Water St., Milwaukee, Wis.
Schwab, Charles L., 2656 N. 50th St., Milwaukee 10, Wis.

Adjudicated Patents

(Ct. Cl.) Hipkins Patent No. 2,008,210, for a traction device. Claims 1, 2, 4, and 5 *Held* invalid and not infringed, and claim 3 *Held* not infringed. *Hipkins et al.* v. *United States*, 111 F. Supp. 274; 97 USPQ 72.

(D. C. Mass.) Pierce Patent No. 2,133,642, for an electrical system, *Held* valid. Claims 51, 52, 54, 55, 56, and 61 to 68 *Held* infringed. *Pierce* v. *American Communications Company, Inc., et al.*, 111 F. Supp. 181; 97 USPQ 60.

Removal From Register

Pursuant to the provisions of Rule 347 of the Rules of Practice of the United States Patent Office in Patent Cases, a letter was directed on April 24, 1953, to Mr. John A. McDowell, at Suite 709, San Fernando Building, 406 South Main Street, Los Angeles 13, California, the last post office address furnished by him to the Committee on Enrollment, in which inquiry was made as to whether he desired to have his name remain on the Register of Patent Attorneys. No reply to that letter was received within the period of 31 days therein set. Accordingly, the name of John A. McDowell (Reg. No. 13,207, dated April 9, 1931) is removed from the Register of Patent Attorneys.

THOMAS F. MURPHY,
May 29, 1953. *Chairman, Committee on Enrollment.*

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,403,626, I. Wolff and R. S. Holmes, Radio detection and distance indicators, decided May 8, 1953, claims 1, 2, 4, 5, and 9.

Pat. 2,466,582, E. J. Dillman, Speed and altitude responsive control for aircraft heaters, decided May 15, 1953, claims 16 and 21.

Pat. 2,540,966, R. R. Swain, Furnace control system, decided Apr. 27, 1953, claims 1, 2, and 3.

Pat. 2,551,681, H. C. Laurence and R. R. Freas, Direct reading loran navigation system, decided May 7, 1953, claims 1, 3, and 4.

Pat. 2,556,985, H. T. Sparrow and M. G. Lindroth, Central apparatus for internal-combustion engines, decided May 13, 1953, claims 1 and 2.

Cancellation Notices

[No. 6040]

Louis Miller, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lerner Bros. Manufacturing Co., Inc., No. 311 West 8th Street, Kansas City 6, Mo., to effect the cancellation of trade-mark registration of Louis Miller, 1199 Broadway, New York, N. Y., No. 354,815, dated February 22, 1938, and the notice of such proceeding sent by registered mail to the said Louis Miller at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Louis Miller, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 16.)

THOMAS F. MURPHY,
May 18, 1953. *Assistant Commissioner of Patents.*

[No. 6003]

Herman P. Knoble, his assigns or legal representatives, take notice:

The Paramount Paper Products Company, of 4401 North 43rd Street, Omaha 11, Nebraska, has filed a petition for cancellation of Trade-Mark Registration No. 351,588 of Herman P. Knoble, of 1429 West 81st Street, Cleveland, Ohio, registered November 2, 1937, and notice of such proceeding has been sent by registered mail to the said Herman P. Knoble at the said address and has been returned by the Post Office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforementioned cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 16.)

THOMAS F. MURPHY,
May 21, 1953. *Assistant Commissioner of Patents.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. 1, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,621,878. Tree Stand. Patented Dec. 16, 1952. Foldable wire Christmas tree stand in which a pair of inverted U-shaped trunk braces are swingable upwardly against opposite sides of a tree trunk and connected by a straddle yoke so the braces and yoke surround and hold the trunk upright. The stand has a base ring supporting a box to contain water. The box has a pair of cleats for centering the tree trunk in the box. A U-shaped locking member pivoted to the upper end of one of the braces has a pair of side coils to receive the ends of the straddle yoke which is pivoted to the upper end of the other brace. A pair of side arms forming extensions of the coils terminate in hooks to engage the sides of the brace (to which the locking member is pivoted) to swing the coils into binding friction-locking engagement with the ends of the yoke. When not in use, the stand may be swung into flat folded position. (Owner) Guss O. Kruger, P. O. Box 313, Madison, S. Dak. Groups 33—49; 40. Reg. No. 50,847.

Pat 2,533,235. Portable Signal Light. Patented Dec. 12, 1950. Demountable, portable signal light for use at night by policemen and others to give a quick traffic signal in case of an accident, fire, etc. It consists of a sign portion unit of light-transmitting and -reflective sheet materials formed in a laminated arrangement, so letters thereon forming words, such as "Stop" or "Slow," can be illuminated with white light and will be surrounded by a contrasting background of colored light. The sign portion unit has an adjustable clamp for quick attachment to and detachment from a standard flashlight. The clamp has a fixed member and a movable member, with a compressible rubber ring surrounded by a metal ring between the members. The head of a flashlight may be inserted in the clamp and the clamp tightened to distort the rubber ring into firm gripping engagement with the flashlight. (Owner) Administrator of the Estate for William A. Feek. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 36—62. Reg. No. 50,848.

Pat. 2,625,887. Variable Stroke Multipiston Pump. Patented Jan. 20, 1953. Reversible multi-piston pump for liquids which will give a uniform non-pulsating flow against high pressures. The pistons are reciprocally mounted in a circle around a power driven rotor in a housing. The rotor has radial openings leading to piston chambers. Inlet and outlet passageways on opposite sides of housing communicate with the radial openings. Rotor has weeping ports leading inward from each piston chamber which terminate in a central collecting chamber. A bearing plate supported on a revolubie shaft at one end of rotor is angularly adjustable by tipping the plate in either direction to vary the length of the piston stroke and also the direction of flow through the pump. Two crank units are secured to the shaft, each having two bearing pins to which carrier-supporting links are attached, permitting the bearing plate to be tilted relative to the pistons. (Owner) Frank H. Reeves, Suite 1, Pacific Building, Portland 4, Oreg. Group 35—61. Reg. No. 50,849.

Pat. 2,526,382. Water Displacer Starter for Outlet Siphons. Patented Oct. 17, 1950. Water displacer starter for outlet siphons and the like to simplify the construction of the control means for the outlet of tanks used for supplying a predetermined amount of liquid. When used to flush a toilet bowl, a spindle is attached to the handle and turns in a bracket on the siphon. A rod connecting a float with the supply valve has spaced notches. When handle is turned, a catch on the spindle drops into one of the notches and holds the float in the water. At the same time, the supply valve opens and the water rises until it flows over the siphon, which then automatically empties the tank. As the tank empties, the descending float releases a catch, and before the valve closes the handle returns to operating position. (Owner) William J. McGinnis, 735 North 7th St., Philadelphia 23, Pa. Group 33—61. Reg. No. 50,850.

Pat. 2,624,949. Precision Gauge. Patented Jan. 13, 1953. Device for quickly and accurately gauging a punch and die set for punching parts having irregular peripheries, or for gauging duplicate machine parts with a model part. The device is mounted on the free end of an arm which is adjustably clamped to a portable standard. A movable follower is pivoted intermediate its ends to the arm, with the upper end carrying a cam to engage a spring-actuated feeler on a dial indicator, and the lower end having a finger adapted to follow the contour of a punch, die, or other element. A stationary follower finger is mounted adjacent the movable finger to follow the contour of a model aligned above the punch on a fixed support. By moving the portable standard so that the stationary follower moves around the contour of the model, the pivoted finger simultaneously follows the outline of the punch and indicates on the dial any variations in contour between the model and the punch. (Owner) David G. Schieman, R. R. 1, Ludlow Falls, Ohio. Group 35—43. Reg. No. 50,851.

Pat. 2,623,321. Protector for Fishhooks. Patented Dec. 30, 1952. Molded flexible protector of rubber or similar material may be removably attached to a conventional three-pronged fishhook to prevent weeds from becoming entangled in the hook. The protector consists of a body portion having three rearwardly extending inclined arms mounted for movement toward and away from the body portion. The body portion has a longitudinal bore to receive the shank of a fishhook, and the free ends of the arms are notched to swing past the projecting ends of the hook. The body portion has a longitudinally extending slit so that it can be readily snapped onto the shank of a hook. A spring embedded in the body portion prevents the protector from becoming accidentally detached from the hook. When a fish strikes, the arms swing inwardly out of the way against the body portion to allow ample room for the fish to become hooked. (Owner) Joseph Braukus, Box 163, Wallace, Idaho. Group 39—49. Reg. No. 50,852.

Pat. 2,626,433. Adjustable Door Jamb for Storm and Screen Doors. Patented Jan. 27, 1953. Door jamb may be easily adjusted in the event the door swells or shrinks, to maintain a proper fit between the door and frame, and also may be adjusted for doors of various widths. Door frame has a continuous recess in the inner edge of one side, and spaced hinge plate receiving recesses. The door has a U-shaped socket member mounted on one edge to be positioned in the continuous recess. Hinges mounted in the spaced recesses are secured to the web of the socket member. The socket member has two legs, one of which is corrugated. An anchor plate mounted in the door has ridges which mesh with the corrugated leg. Bolts extend through the socket member, anchor plate, and door to retain the door to the hinges in adjusted positions. (Owner) Charles S. Murch, 39 Melville St., Augusta, Maine. Groups 24—31; 33—83. Reg. No. 50,853.

Pat. 2,609,718. Speed Wrench. Patented Sept. 9, 1952. Socket wrench of the type having a handle that may be swung back and forth to rapidly turn a nut in either direction without removing the socket from the nut. The shaft of the wrench for turning nuts has a fixed serrated clutch disc on one end and an adjustable conical cam disc on the opposite end. A block formed with a similar serrated clutch disc is rotatably and slidably mounted on the shaft between the clutch disc and the cam disc. A spring normally urges the clutch discs apart. A radial handle having cam means on the inner end for cooperation with the cam disc is rotatably and slidably mounted in a bore in the block. The handle may be thrust inwardly in the bore to axially shift the block on the shaft and force the clutch discs into driving engagement to turn the shaft in either direction. When the handle is jerked outwardly, the spring separates the clutch discs so that the block may be freely rotated on the shaft in either direction. The clutch discs may also be engaged and disengaged by oscillating the handle in the bore. (Owner) Frank L. Fulke, P. O. Box 11, Terre Haute, Ind. Group 33—52. Reg. No. 50,854.

Pat. 2,597,871. Wax Emulsion Polishing Composition Containing Silica. Patented May 27, 1952. Silica, in the form of dispersed particles having a particle size of 1 to 100 millimicrons, is added to an aqueous wax emulsion polishing composition in an amount sufficient to impart skid resistance to a dried film of the composition. (Owner) E. I. du Pont de Nemours and Company. For unrestricted licenses, address: Patent Division, E. I. du Pont de Nemours and Company, Wilmington, Del. Group 28—93. Reg. No. 50,855.

Pat. 2,627,118. Vernier Controlled Indicator Rod Clamp. Patented Feb. 3, 1953. Vernier controlled indicator rod clamp for making fine adjustments to accurately measure a workpiece. A measuring stand has a base and an upwardly extending rod on which the clamp is adjustably supported by a thumbscrew. A measuring rod connected to the clamp by a thumbscrew has a head with a pointer protruding therefrom. The head is connected to the measuring rod by a set screw, and the pointer is held in place by a screw. The measuring rod extends through a head of a rotatable support journaled in a sleeve of a casing enclosing a large gear and a pinion gear. The pinion gear is on the end of a shaft attached to a manually operated knob. By turning the knob, the measuring rod is adjustable through a vertical angle to properly locate the pointer on the work being measured. (Owner) Le.Roy F. Young, 27 Highland Ave., Barrington, R. I. Group 35—43. Reg. No. 50,856.

Pat. 2,523,323. Sanitary Combination Barbering Robe. Patented Sept. 26, 1950. Disposable single-use barbering robe for customers has a U-shaped neck-opening filler partially severed therefrom. The neck filler is to be removed from the robe immediately prior to use in the sight of the customer to form the neck opening so the customer will know a new robe is being used. The neck filler, when separated, becomes a two-ply detachable neck strip. Two partially severed removable sections extend upwardly from each side of the neck-opening filler. These sections may be removed and used as hand towels or as a damp wiper and a dry wiper after shaving. One may be twisted to form a powder duster. The robe is made of a single sheet of creped paper with fold lines so it may be compactly folded. (Co-owner) John S. Privott, 1216 Missouri Ave., Apt. 3, Washington, D. C. Groups 26—99; 39—91; 40. Reg. No. 50,857.

Pat. 2,587,496. Package Delivery Mechanism. Patented Feb. 26, 1952. Device for receiving successive articles from a primary conveyor and delivering them one by one to the feed conveyor of a wrapping machine. Spaced pusher bars secured to endless chains of the feed conveyor transfer successive articles from the conveyor to the feed chains. A ramp has a receiving portion over the upper run of the conveyor, and a delivery portion over the feed chains hinged thereto for the passage of articles. A lower wall extending forwardly from the delivery portion has spaced ridges for slidably supporting articles advanced by the feed chains. Side plates forwardly of the hinged portion of the ramp have pivoted equalizers, the inner free ends of which swing in the path of the articles and engage the opposite ends thereof. The foremost article is held against advancement by stops pivoted to the lower wall having their inner free ends in the path of movement of the articles and is released as the article is fed by the pusher bars to the wrapping machine. (Owner) Joseph Manteria, 25 Chapel St., Springfield, Mass. Group 35—51—62. Reg. No. 50,858.

Pat. 2,621,721. Gas Burner Having Radiant Foraminous Combustion Chamber Walls. Patented Dec. 16, 1952. Gas burner for hot air furnaces and kitchen ranges includes a standard having a base to rest upon a grate. A valved gas supply pipe is connected to the standard and to a valve-controlled gas supply main. A short upright pipe is threaded into the upper end of a T-fitting, mounted on the standard, to support the burner. The burner includes a series of inner and outer hollow rings or burner pipes connected by spaced pipes between the rings. The rings have annular top ribs with shoulders at the inner and outer sides. The ribs have spaced apertures to receive gas jets. Spaced concentric open-ended apertured sleeves are supported on the shoulders at opposite sides of the ribs. The innermost sleeve stops short of the upper end of the adjacent sleeve and causes the draft through the center thereof to mix with and deflect the gases rising between the innermost sleeves toward the outermost sleeve. A pilot tube extends upwardly through the annular space between the inner and outer rings to ignite gas from the jets. (Owner) Joseph Manteria, 25 Chapel St., Springfield, Mass. Group 33—65—69. Reg. No. 50,859.

Pat. 2,615,415. Soldering Device. Patented Oct. 28, 1952. Portable soldering device contains an electrically heated reservoir for receiving soldering material, and a hollow truncated rotary valve that is capable of very fine adjustment for controlling the flow of molten solder from the reservoir to the tip of the device. A truncated valve seat in which the valve is tightly but rotatably seated has an opening in the side connected by a channel to the reservoir. A transverse opening having pointed ends is provided in the side of the valve. A trigger adjacent the handgrip of the device carries a rack meshing with a pinion on the shaft of the valve. The trigger may be pulled to rotate the valve and gradually bring the opening in the side of the valve into registry with the opening in the side of the valve seat. When the trigger is released, a spring returns the valve to closed position. The valve and its operating mechanism are located outside the reservoir to provide easy access and ready assembly or disassembly. (Co-owner) Oscar Wertheim, 315 West 94th St., New York 25, N. Y. Group 36—21. Reg. No. 50,860.

Pat. 2,023,803. Device for Dispensing and Orienting Ammunition for Firearms. Patented Dec. 30, 1952. Device for dispensing cartridges one at a time includes means for receiving the dispensed cartridges and presenting them to the user with either the base foremost or the bullet end foremost, depending upon which of two alternative arrangements is used with the device. A hopper-like container for receiving a box of cartridges is provided with a slotted sloping floor and a side discharge opening. A spring-returned cartridge-ejecting slide disposed for horisontal reciprocation at the level of the discharge opening has two upstanding lugs positioned under the floor with upwardly disposed stepped ribs within the floor slots. The hopper floor and ejector are so constructed and arranged as to insure delivery of only one cartridge, and to effectively prevent bridging of the ammunition over the discharge opening so that the ammunition can be continuously fed without stoppages. Each cartridge is ejected through the discharge opening in substantially horizontal position with the rim above the level of the bullet, and drops into a delivery passage. The device may be equipped with alternative forms of delivery passages to present the cartridges to the user with either the base foremost or the bullet end foremost. (Owner) Roy L. Gamble. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 33—97. Reg. No. 50,861.

General Electric Company offers the following three patents for non-exclusive licensing upon reasonable terms to domestic manufacturers. Applications for licenses may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,608,599. Arc Extinguishing Device. Patented Aug. 26, 1952. Arc extinguishing device having particular application to lightning arresters and the like has an arc initiating gap between the more closely positioned ends of a pair of spaced divergently disposed resistor sticks defining continuous arc runners. The resistors are confined between a pair of spaced blocks of gas-evolving, insulating material, the spacing of which terminates adjacent the gap to form, with the resistors, an arcing chamber enclosed with the exception of a vent opening adjacent the more remotely spaced ends of the resistors. An arc established across the gap will be forced by the generated gas toward the divergent ends of the resistors and thereby elongated and extinguished. Group 36—11. Reg. No. 50,862.

Pat. 2,612,542. Electrical Protective Device. Patented Sept. 30, 1952. Protective device of the fuseless cut-out type for isolating a faulted line in an electric distribution system. The cut-out imposes a metallic short circuit upon a faulted line through a suitable return path to cause an associated circuit breaker to interrupt the circuit. After the circuit is interrupted, the cut-out opens to isolate the faulted line from ground. The short circuit is imposed upon the faulted line without creating arcing conditions at the cut-out. Group 36—19. Reg. No. 50,863.

Pat. 2,612,635. Induction Voltage Regulator. Patented Sept. 30, 1952. Induction voltage regulator for obtaining voltage variations previously obtained only by the use of a transformer and an induction voltage regulator in combination. The regulator has an output voltage range not necessarily centered about the supply voltage value, and is capable of finer average adjustments of output voltages in a range of magnitudes appreciably different from the magnitude of the supply voltage. Group 36—19. Reg. No. 50,864.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 16, 1953

[VOL. 671. No. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 592,918. Michigan Peat, Inc., New York, N. Y. Filed Feb. 23, 1950.

Bacti-vated!

For Peat, Peat Moss and Humus.
Claims use since Feb. 1, 1950.

Ser. No. 594,460. Hoyt and Worthen Tanning Corporation, Haverhill, Mass. Filed Mar. 23, 1950.

Ladyslipper



For Thin Leathers.
Claims use since on or about Oct. 5, 1939.

Ser. No. 598,660. Luster Art Company, Salt Lake City, Utah. Filed June 6, 1950.

LUSTER CLAYS

No claim is made to the word "Clays," apart from the mark as shown.
For Modeling Clays Intended for Creative Art Work.
Claims use since Dec. 6, 1948.

Ser. No. 608,415. Expanded Rubber Company Limited, Croydon, Surrey, England. Filed Jan. 5, 1951.

ZOTE

The word "Zote" means "Life" in the Greek language.
For Natural and Synthetic Expanded and Non-Expanded Rubber and Resin Materials in Sheets, Rolls, and Tubes, and Sponges Including Toilet and Hand Sponges.
Claims use since May 15, 1939; and since Jan. 1, 1947 in commerce between Great Britain and the United States.

Ser. No. 608,968. Expanded Rubber Company Limited, Croydon, Surrey, England. Filed Jan. 12, 1951.

Onazote

For Natural and Synthetic Expanded and Non-Expanded Rubber and Resin Materials in Sheets, Rolls, and Tubes, and Sponges Including Toilet and Hand Sponges.
Claims use since Sept. 3, 1920; and since Dec. 7, 1949, in commerce between Great Britain and the United States.

Ser. No. 637,311. Hercules Powder Company, Wilmington, Del. Filed Oct. 29, 1952.

HERCULES

Applicant claims ownership of Registrations Nos. 201,838, 216,020, and others.
For Cellulose Gum.
Claims use since Jan. 10, 1951.

CLASS 2

RECEPTACLES

Ser. No. 629,834. Bridgeport Moulded Products, Inc., Fairfield, Conn. Filed May 17, 1952.

SPARKLE-WARE

The word "Ware" is disclaimed apart from the mark.
Applicant claims ownership of Registrations Nos. 535,343 and 535,377.
For Drinking Glass Coasters, Napkin Holders Having Pockets for Stacks of Paper Napkins, Plates, Tumblers, Bowls, Flower Pots and Saucers, Ice Buckets, Jardiniers, Wall Vases, and Juice Bottles, All Made of Moulded Plastic Material.
Claims use since Aug. 17, 1949.

Ser. No. 634,553. Skelly Oil Company, Kansas City, Mo. Filed Aug. 27, 1952.

Skelgas

Applicant claims ownership of Registrations Nos. 366,869 and 368,009.
For Gas Utilization Equipment—Namely, Storage and Utilization Tanks.
Claims use since 1928.

Ser. No. 641,619. Kilby Steel Company, Anniston, Ala. Filed Feb. 2, 1953.

"Blue Bonnet"

For Metal Grain Storage Bins.
Claims use since September 1949.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 614,599. Wright Leather Specialty Co., St. Louis, Mo. Filed May 31, 1951.

THE V-I-TRONIC LINE

The word "Line" is disclaimed apart from the mark as shown.
For Articles Made of Plastics—Namely, Billfolds, Coin Purses, Pocket Secretaries, Key Cases, Luggage Identification Tag Holders, and Personal Card Cases.
Claims use since Sept. 24, 1950.

Ser. No. 639,618. Bernard Cahn Co. Inc., New York, N. Y. Filed Dec. 17, 1952.

Down Towner

For Wallets and Purses.
Claims use since June 11, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. 393,317. Sunnen Products Company, St. Louis, Mo. Filed Dec. 1, 1949.. (Sec. 2f.)

SUNNEN

Applicant claims ownership of Registration No. 263,350.
For Hones, Abrasive Stones, Abrasive Grains, and Abrasive Sticks for Use in Holders.
Claims use since July 1947 on the mark as shown; and since Apr. 15, 1928 on the word "Sunnen."

CLASS 5

ADHESIVES

Ser. No. 626,899. Narmco, Inc., San Diego, Calif. Filed Mar. 22, 1952.

NARMTAPE

For Fiberglass Scrim Fabric Impregnated With Adhesive for Use as Bonding Material Between Metal, Cotton, Fiberglass, or Paper Honeycomb Core Material and Metal, Laminated Papers and Fabric Faces.
Claims use since July 30, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 627,117. Corn Products Refining Company, New York, N. Y. Filed Mar. 27, 1952.

ARGO

For Polysaccharide, Glucuronolactone, Sodium Glucuronate and Potassium Glucuronate.
Claims use since 1892.

Ser. No. 629,284. Henry Carson, Flushing, N. Y. Filed May 7, 1952.

CHLOR-O-SCENT

The word "Scent" is disclaimed apart from the mark.
For Insecticides and Household Deodorants.
Claims use since Mar. 22, 1952.

Ser. No. 633,212. Rose R. Newgren, Gates Mills, Ohio. Filed July 29, 1952.

MOUSE PARTY MIX

No claim is made to the words "Mouse" and "Mix" apart from their use in the mark as shown.
For Rodenticides.
Claims use since Mar. 4, 1952.

Ser. No. 635,602. Manufacturing Laboratories, Inc., Boston, Mass. Filed Sept. 22, 1952.

Nu-flex

The word "Flex" is disclaimed apart from the mark shown. Applicant claims ownership of Registration No. 250,854.
For Leather Dressing, Preservative, and Softening Composition.
Claims use since Feb. 1, 1928.

Ser. No. 635,734. American Metallic Chemicals Corp., New York, N. Y., and Portland, Oreg. Filed Sept. 25, 1952.

amcc

The drawing is lined to indicate the color red.
For Manganese Dioxide.
Claims use since Aug. 8, 1952.

Ser. No. 638,211. The Pacific Lumber Company, San Francisco, Calif. Filed Nov. 17, 1952.

PTC

PALCOTANIC ACID

Applicant disclaims use of the word "Acid." Applicant claims ownership of Registrations Nos. 556,288, 556,289, and others.
For Organic Acid Group Obtained by Ion Exchange From the Salt Formed in Reacting Redwood Bark With Sodium Sulphite.
Claims use since Aug. 21, 1952.

Ser. No. 638,212. The Pacific Lumber Company, San Francisco, Calif. Filed Nov. 17, 1952.

PTN

PALCOTAN

Applicant claims ownership of Registrations Nos. 556,288, 556,289, and others.
For Sodium Salt Formed by Reacting Redwood Bark With Sodium Sulphite.
Claims use since Aug. 21, 1952.

Ser. No. 639,752. Food Machinery and Chemical Corporation, New York, N. Y. Filed Dec. 19, 1952.

Sea Sorb

For Purifying, Catalytic and Decolorizing Materials—Namely, Magnesium Oxides.
Claims use since Oct. 28, 1952.

Ser. No. 643,683. Hatco Chemical Company, Kearny, N. J. Filed Mar. 16, 1953.

HATCO

For Plasticizers for Use in Plastics.
Claims use since Aug. 16, 1952.

CLASS 7

CORDAGE

Ser. No. 392,735. A. Leschen & Sons Rope Company, St. Louis, Mo. Filed Jan. 23, 1950.

The mark consists of a red stripe produced by applying the color red to one or more strands of wire rope, the major portion of the body of the rope differing in color therefrom. The drawing is lined for the color red.
Applicant claims ownership of Registration No. 338,670.
For Wire Rope.
Claims use since 1886.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 630,308. Bowers Lighter Company, Kalamazoo, Mich. Filed May 27, 1952. (Sec. 2f.)

Bowers

The lining shown on the drawing is for shading purposes only.
For Pyrophoric Pocket and Table Lighters, Flints, and Smoking Pipe Cleaners.
Claims use since March 1932.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 628,227. The Schoellkopf Company, Dallas, Tex. Filed Apr. 17, 1952.

JUMBO

Applicant claims ownership of Registration No. 504,386.
For Gun Cases, Saddle Scabbards, Pistol Holsters, and Cartridge Cases.
Claims use since Jan. 1, 1952.

CLASS 10

FERTILIZERS

Ser. No. 626,142. Berry Seed Company, also doing business under the names Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co. and American Field Seed Co., Clarinda, Iowa. Filed Mar. 8, 1952. (Sec. 2f.)

GRO-COAT

Applicant claims ownership of Registration No. 549,969.
For Plant Hormones Combined With Seed Disinfectants and Protectants.
Claims use since Nov. 19, 1950.

Ser. No. 627,930. Commercial Solvents Corporation, New York, N. Y. Filed Apr. 11, 1952.

DIXSOL

For Nitrogen Solutions Used as or in the Production of Soil Fertilizers.
Claims use since Oct. 5, 1951.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 630,396. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

For Steel Ink.
Claims use since Apr. 9, 1951 on the mark as shown; and since Mar. 1, 1935 as to "DoALL."

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 525,319. Higgins, Inc., New Orleans, La., assignee of Higgins Industries, Inc. Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Apr. 26, 1948.

Higgins Therma-Con

No claim is made to the word "Higgins" apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 418,514.
For Mixture of Portland Cement and Other Materials Used in Making Construction Blocks, and for Other Purposes—Namely, Insulating Material, as Plaster, as a Mortar, and as a Moisture Repellent.
Claims use since July 1943.

Ser. No. 569,013. Pittsburgh Corning Corporation, Pittsburgh, Pa. Filed Nov. 18, 1948.

SOFT-LITE

For Architectural Glass—Namely, Glass Blocks for Architectural Use in Constructing Building Walls, Partitions, and Windows.
Claims use since May 5, 1948.

Ser. No. 628,195. Ess-Wood Corporation, New York, N. Y. Filed Apr. 17, 1952.

ESS-WOOD

The word "Wood" is disclaimed per se except as used in the above trade-mark.
For Wooden Doors.
Claims use since Oct. 22, 1951.

Ser. No. 632,348. American Radiator & Standard Sanitary Corporation, New York, N. Y. Filed July 10, 1952.

For Plastic Wall Tile.
Claims use since Apr. 1, 1952.

Ser. No. 635,148. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Sept. 11, 1952.

SONOFACED

For Acoustic Tile and Sound Absorbing Baffles in the Form of Boards and Slabs of Interbonded Fibrous Glass.
Claims use since April 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 633,394. Stratoflex, Inc., Fort Worth, Tex. Filed Aug. 1, 1952.

STRATOFLEX

For Metal Hose Fittings and Couplings.
Claims use since June 12, 1952.

Ser. No. 636,872. Arlington Corporation, St. Paul, Minn. Filed Oct. 20, 1952.

KROMASTER

For Metal Platters and Serving Trays.
Claims use since July 1, 1952.

Ser. No. 640,119. Louis Greenspon, Inc., Clayton, Mo. Filed Dec. 29, 1952.

ODEE

Applicant claims ownership of Registration No. 364,733.
For Line Metal Pipe and Tubing.
Claims use since Jan. 1, 1933.

Ser. No. 640,232. The Stanley Works, New Britain, Conn. Filed Dec. 31, 1952.

Ranch Craft

For Knobs for Doors and Drawers.
Claims use since Dec. 12, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 611,203. Truscon Steel Company, Youngstown, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Filed Mar. 12, 1951.

TRUSCON

Applicant claims ownership of Registrations Nos. 126,795, 217,123, and others.
For Unfinished Pressed Steel Stampings, for Use in the Manufacture of Automotive Brake Drums, Finder Brackets, Chassis Frames, Axle Housings, Headlight Brackets, Clutch Plates, Radiator Shells, Headlight Reflectors, Running Boards, Wheel Hubs, Stove Legs, Follower Plates and Valves for Grease Guns, Caps for Porcelain Insulators, Generator and Motor Housings, Faucet Stampings, Washing Machine Frames, Pressed Steel Reels for Winding Wire, Hemp, and Cable, and Tractor Seat Brackets.
Claims use since June 3, 1942.

Ser. No. 623,932. Blue Ridge Pressure Castings, Inc., Lehighton, Pa. Filed Dec. 26, 1951.

BR

For Metal Die Castings Made to Specifications as to Composition or Form.
Claims use since July 10, 1951.

Ser. No. 624,932. Crucible Steel Company of America, New York, N. Y. Filed Feb. 14, 1952.

CSA

For Semi-Finished Castings for Making Automotive Equipment, Engine Parts, Aircraft Parts, Metal Covers, Brackets, Lifting Eyes, and Hinges.
Claims use since Oct. 3, 1950.

Ser. No. 628,872. Qualcast Limited, Derby, England. Filed Apr. 29, 1952.

QUALCAST

Applicant claims ownership of United States Registration No. 307,175.
For Metal Castings.
Claims use since Jan. 24, 1920; and since Jan. 24, 1920 in commerce between foreign nations and the United States.

Ser. No. 632,705. The Zeller Corporation, Defiance, Ohio. Filed July 17, 1952.

Z

For Steel and Alloy Steel Machined Parts, Forgings, and Stampings Made to Specification.
Claims use since Apr. 28, 1952.

Ser. No. 638,771. Lake Shore Engineering Company, Iron Mountain, Mich. Filed Nov. 29, 1952.

LAKENITE

For Grey Iron Castings, Bars, and Plates.
Claims use since July 17, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 630,827. Bigren Limited, Greenford, England. Filed June 6, 1952.



Applicant claims ownership of British Registration No. 688,896, dated May 8, 1950.
For Lubricating Oil.

Ser. No. 639,963. The Standard Oil Company, Cleveland, Ohio. Filed Dec. 23, 1952.

SOHIOFLOW

Applicant claims ownership of Registrations Nos. 235,809, 321,605, and others.
For Motor Oil.
Claims use since Nov. 26, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 533,338. Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Filed Sept. 4, 1947. (Sec. 2f.)

Brightlac

For Floor Enamels, Implement Paint, Screen Paint, Carriage Paint, Varnish Stain, Aluminum Enamel, Gold Enamel, and Protective Floor Wax Coatings.
Claims use since 1911.

Ser. No. 605,389. The Aber Company Inc., Houston, Tex. Filed Oct. 25, 1950. (Sec. 2f.)

OVERKOTE

For Weather-Proof Coating Composition Having Incidental Insulating Properties.
Claims use since Apr. 1, 1943.

Ser. No. 607,057. United States Gypsum Company, Chicago, Ill. Filed Nov. 28, 1950.

Gulftone

For Wall Coatings in the Nature of Paint.
Claims use since June 29, 1950.

Ser. No. 609,221. The Muralo Company, Inc., New Brighton and Staten Island, N. Y. Filed Jan. 24, 1951.



Applicant claims ownership of Registrations Nos. 38,939 and 203,502.
For Paints—Namely, Colors in Paste Form, Exterior and Interior Water Paint in Paste Form, Interior Resin Emulsion Paint in Paste Form, Calcimine in Powder Form, Permanent Interior Surfacing Compound in Powder Form for Filling in Grain, Cold Water Paint in Powder Form, Wallboard Filler in Powder Form, Rubber Latex Base Paint in Liquid Form, Protective and Decorative Paint for Application to Cement or Similar Masonry Surfaces, and Sizing for Porous Interior Surfaces.
Claims use since May 1, 1942.

Ser. No. 615,513. Kemart Corporation, San Francisco, Calif. Filed Apr. 26, 1951.

KEMART

For Artists' Highlight White and Wash Black Paints Used in Preparing Art Work for Photomechanical Reproduction.
Claims use since Feb. 4, 1947.

Ser. No. 618,430. The Woodzan Co., Inc., Ridgewood, N. J. Filed Sept. 5, 1951.



The word "Wood" is disclaimed apart from the mark as shown.
For Floor Finish Varnish and Reducer Therefor.
Claims use since June 11, 1951.

Ser. No. 619,378. Bee Chemical Company, Chicago, Ill. Filed Sept. 29, 1951.

LOGOFOIL

Applicant claims ownership of Registrations Nos. 323,760 and 547,033.
For Strippable Protective Coating Composition.
Claims use since Sept. 12, 1951.

Ser. No. 619,929. Dupli-Color Products Co., Inc., Chicago, Ill. Filed Oct. 12, 1951.

Car • Fix

No registration rights are claimed for the word "Car" apart from the mark shown in the drawing.
For Plastic Coating Sprays for Water Proofing and Preventing Corrosion on Ignition and Electrical Systems of Automobiles.
Claims use since Aug. 7, 1951.

Ser. No. 622,799. Bryant Chemical Corporation, North Quincy, Mass. Filed Dec. 26, 1951.

FIRMEL

For Liquid Resin Coating Used for Imparting Crisp Finishes, Permanent Glaze and Coated Effects to Textile Materials, Paper, and Leather.
Claims use since Jan. 8, 1951.

Ser. No. 623,400. Godfrey L. Cabot, Inc., Boston, Mass. Filed Jan. 10, 1952.



The drawing is lined for silver or gray and the specimens show this color, but applicant is not claiming color as a feature of the mark. No claim is made to the exclusive use of the word "Black" apart from the mark as shown. Applicant claims ownership of Registration No. 539,056.
For Carbon Black Used as an Ingredient of Protective and Decorative Coatings.
Claims use since Nov. 19, 1951.

Ser. No. 624,298. Rockford Paint Manufacturing Co., Rockford, Ill. Filed Jan. 30, 1952.

Spectro-matic

For Ready Mixed Colorants for Use in Paints, Enamels, and Similar Coatings.
Claims use since Aug. 1, 1951.

Ser. No. 624,299. Rockford Paint Manufacturing Co., Rockford, Ill. Filed Jan. 30, 1952.



For Ready Mixed Colorants for Use in Paints, Enamels, and Similar Coatings.
Claims use since Aug. 1, 1951.

Ser. No. 635,251. Albert M. Cleaver, Fontana, Calif. Filed Sept. 15, 1952.

CLECO

For Plastic Sealing and Coating Composition for All Surfaces.
Claims use since on or about Sept. 2, 1952.

Ser. No. 635,341. Apothecaries Hall Co., Waterbury, Conn. Filed Sept. 17, 1952.

AHCOPHOS

For Rust Preventing Phosphate Coating for Ferrous and Non-Ferrous Metals.
Claims use since May 9, 1952.

Ser. No. 635,887. Simonis Company, Chicago, Ill. Filed Sept. 27, 1952. (Sec. 2f.)

MOTORISTS WISE SIMONIZ

Applicant claims ownership of Registrations Nos. 548,858 and 561,771.
For Hard Paste Waxlike Material for Providing a Coating or Film, Particularly for Protective and Preservative Purposes, and for Use on Automobiles, Furniture, and the Like.
Claims use since Jan. 15, 1923.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 639,995. International Minerals & Chemical Corporation, Chicago, Ill. Filed Dec. 24, 1952.

AC'CENT

For Cigarettes.
Claims use since Nov. 17, 1952.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 609,970. Family Products, Inc., Chicago, Ill., assignor to Inapak Corporation, Chicago, Ill., a corporation of Delaware. Filed Feb. 12, 1951.

INAPAK

For Vitamin-Mineral Food Supplement.
Claims use since Jan. 16, 1951.

Ser. No. 621,025. National Package Drugs, Inc., St. Louis, Mo. Filed Nov. 8, 1951.

Cherry Master

Applicant makes no claim to the word "Cherry" apart from the mark shown. Applicant claims ownership of Registration No. 505,762.
For Cough Syrup.
Claims use since Aug. 3, 1951.

Ser. No. 621,148. Reuben Hess, Benton Harbor, Mich. Filed Nov. 13, 1951.

TSUNGANI
OINTMENT



The word "Ointment" is disclaimed apart from the mark as shown.

For Ointment Used on Felons, Burns, Boils, Bruises, Carbuncles, Ulcers, Insect Bites, Cuts, Eczema, Varicose Ulcers, Blood Poisoning, and Abscesses.

Claims use since Oct. 25, 1951.

Ser. No. 626,870. E. Fougera & Co., Inc., New York, N. Y. Filed Mar. 22, 1952.

SUXINYL

For Solution of Succinonitrile Used by Parenteral Injection for Psychiatric Disorders

Claims use since Mar. 6, 1952.

Ser. No. 627,118. Corn Products Refining Company, New York, N. Y. Filed Mar. 27, 1952.

ARGO

Applicant claims ownership of Registrations Nos. 69,784, 280,717, and 515,795.

For Glucuronolactone, Sodium Glucuronate, and Potassium Glucuronate for Use in the Treatment of Rheumatoid and Other Forms of Arthritis, in the Reduction of Flora in the Lower Intestines, as a Dietary Supplement for Increasing Diuretic Activity, in Increasing the Rate of Wound Healing and as a Detoxifier.

Claims use since 1892.

Ser. No. 627,964. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

AVOSED

For Tablet Consisting of a Sedative and Muscular Relaxant.

Claims use since Aug. 29, 1951.

Ser. No. 627,966. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

EUPHESIN

For Sedative and Muscular Relaxant in Tablet Form.

Claims use since Sept. 27, 1951.

Ser. No. 627,971. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

PYRROVIN

For Polyvinyl Pyrrolidone in Bulk.

Claims use since Feb. 25, 1952.

Ser. No. 629,835. Burl Laboratories, Inc., Beverly, N. J. Filed May 17, 1952.

EPHMALEATE

For Medicine as a Relief for Patients Suffering From Hay Fever, Rose Fever, Vasomotor Rhinitis, Acute Coryza, and Similar Ailments.

Claims use since Mar. 1, 1952.

Ser. No. 639,440. Chas. Pfizer & Co. Inc., Brooklyn, N. Y. Filed Dec. 13, 1952.

BUCCAPEN

For Penicillin Preparation for Oral Administration.

Claims use since Dec. 1, 1952.

Ser. No. 640,360. Reed & Carnrick, Jersey City, N. J. Filed Jan. 5, 1953.

Mabutone

For Medicine—Namely, a Barbiturate-Containing Sedative, Tranquillizer, and Muscle Relaxant.

Claims use since Oct. 24, 1952.

CLASS 19

VEHICLES

Ser. No. 618,136. United Aircraft Products, Inc., Dayton, Ohio. Filed Aug. 27, 1951.

UAP

For Oil Tanks for Aircraft.

Claims use since June 21, 1951.

Ser. No. 624,882. General Motors Corporation, Detroit, Mich. Filed Feb. 13, 1952.

SUPERIDE
DELCO

The right to the exclusive use of the word "Superide" is disclaimed apart from the mark as shown.

For Shock Absorbing Devices and Parts Thereof for Vehicles.

Claims use since Nov. 27, 1951.

Ser. No. 636,751. Claude H. Turner, doing business under the style name of Atlanta Boat Works, Atlanta, Ga. Filed Oct. 16, 1952.

Aristo Craft

Applicant disclaims exclusive use of "Craft" apart from the mark shown.

For Power Driven Boats Used Principally for Pleasure.

Claims use since Mar. 11, 1946.

Ser. No. 639,694. Farber Brothers, Inc., Memphis, Tenn. Filed Dec. 18, 1952.

JET

For Automobile Seat Covers.

Claims use since Nov. 19, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 623,960. The Indiana Steel Products Company, Valparaiso, Ind. Filed Jan. 23, 1952.

HYFLUX

Applicant claims ownership of Registration No. 127,010.

For Permanent Magnets.

Claims use since June 1, 1950.

Ser. No. 626,415. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 13, 1952. (Sec. 2f.)

ROBERTSHAW

Applicant claims ownership of Registration No. 509,419.

For Electric Igniters for Fuel Burners, Electric Switches, and Valves Operated by an Electromagnet.

Claims use since 1922.

Ser. No. 628,683. Erie Resistor Corporation, Erie, Pa. Filed Apr. 25, 1952.

SILERTEX

For Resistors.

Claims use since 1950.

Ser. No. 631,555. Getz Bros. & Co., San Francisco, Calif. Filed June 21, 1952.



LIGHTHOUSE MOTOR

The applicant disclaims the word "Motor" per se.

For Fractional Horsepower Electric Motors.

Claims use since May 9, 1952.

Ser. No. 638,561. Willard Storage Battery Company, Cleveland, Ohio. Filed Nov. 24, 1952.

METALEX

For Storage Batteries.

Claims use since July 1950.

Ser. No. 639,814. Electric Indicator Company, Inc., Stamford, Conn. Filed Dec. 20, 1952.

ELINCO

For Electrical Motors, Electrical Generators, and Components Thereof.

Claims use since July 1, 1926.

Ser. No. 639,913. Winders & Geist, Inc., Lincoln, Nebr. Filed Dec. 22, 1952.

FLEXIDUCT

For Conduits for Electrical Wiring.

Claims use since Sept. 22, 1948.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 624,678. James Earl Denham, doing business under the fictitious name Skiparel Mfg. Co., Reseda, Calif. Filed Feb. 8, 1952.

SKI-PAREL

No claim is made to the exclusive right to the use of the word "Ski" apart from the remainder of the mark as shown.

For Exercising Apparatus for Training in the Art of Skiing.

Claims use since Feb. 6, 1951.

Ser. No. 627,065. Horison Fishing Rod Servicer Co., Philadelphia, Pa. Filed Mar. 26, 1952.

HORIZON

For Fishing Rod Clamp.
Claims use since Feb. 20, 1952.

Ser. No. 629,732. Jaymar Specialty Company, Brooklyn, N. Y. Filed May 15, 1952.



For Tiny Tot Toys Made of Wood and Plastic—Namely, Whirling Pegs, Whirling Windmills, Rattle Mowers, Tower Carts, Peg Carts, Animal Figures, Pull Toys, and Toy Pianos; Toy Tool Sets, Toy Tool Chests; Jigsaw Puzzles, Counting Frames, Boxed Cardboard Games, Air-Rifle Games, and Puzzle Boxes.
Claims use since June 1929.

Ser. No. 629,733. Jaymar Specialty Company, Brooklyn, N. Y. Filed May 15, 1952.

JAYMAR

For Tiny Tot Toys Made of Wood and Plastic—Namely, Whirling Pegs, Whirling Windmills, Rattle Mowers, Tower Carts, Peg Carts, Animal Figures, Pull Toys, and Toy Pianos; Toy Tool Sets, Toy Tool Chests; Jigsaw Puzzles, Counting Frames, Boxed Cardboard Games, Air-Rifle Games, and Puzzle Boxes.
Claims use since June 1929.

Ser. No. 634,119. Frank Sachs, doing business as Dominettes Company, Detroit, Mich. Filed Aug. 18, 1952.

DOMINETTES

For Game of Skill Played With Individual Indicia Distinguished Pieces Similar to Dominoes.
Claims use since Jan. 20, 1931.

Ser. No. 634,389. Willard and Ware, Yakima, Wash. Filed Aug. 23, 1952.

COLONEL

For Trout Bait Which Is in the Nature of a Food for Fish.
Claims use since Aug. 16, 1952.

Ser. No. 640,073. Mattel, Incorporated, Los Angeles, Calif. Filed Dec. 27, 1952.



The words "Toy Makers" are disclaimed apart from the mark as shown.
For Children's Toys—Namely, Music-Maker Books, Hurdy-Gurdys, and Jacks-in-the-Box.
Claims use since on or about June 1, 1952.

Ser. No. 644,540. C & F Doll Fashions, Owensboro, Ky. Filed Apr. 1, 1953.

DOLLENÉ

For Doll Clothing.
Claims use since August 1952.

Ser. No. 644,689. Rootie Kazootie, Inc., New York, N. Y. Filed Apr. 3, 1953.

POLKA DOTTIE

For Toy Hand Puppets.
Claims use since July 31, 1952.

Ser. No. 644,773. Monumental Manufacturing Corporation, Hanover, Pa. Filed Apr. 6, 1953.

ECONOMIZER

For Bowling Pins.
Claims use since Feb. 19, 1953.

Ser. No. 644,774. Monumental Manufacturing Corporation, Hanover, Pa. Filed Apr. 6, 1953.

LAM MASTER

For Bowling Pins.
Claims use since Sept. 1, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 550,440. Vernon R. Rogers, doing business as Rogers Pump Co., Oshkosh, Wis. Filed Feb. 24, 1948.

STORM KING

For Sump Pumps, Coolant Pumps, Vacuum Pumps, Shallow and Deep Well Pumps, and Power Driven Pumps.
Claims use since Jan. 15, 1948.

Ser. No. 568,400. Red Devil Tools, Irvington, N. J. Filed Nov. 8, 1948.



Applicant claims ownership of Registrations Nos. 87,669, 162,120, and others.
For Putty Chisels, Wall Paper Trimmers, Paper Hangers' Straight Edges, Armature Lathes, and Floor Edgers.
Claims use since Feb. 1, 1900.

Ser. No. 596,356. Pennsylvania Refining Company, Butler, Pa. Filed Apr. 26, 1950.

GUMOUTER

Applicant claims ownership of Registration No. 564,053.
For Hand Tool in the Form of a Conduit Provided With a Coupling Element at Each End Thereof, With One of Said Coupling Elements Being Connectible to a Receptacle Containing a Solvent Preparation, and the Other of Said Coupling Elements Being Connectible to a Carburetor for the Delivery of Such Solvent Preparation Thereto.
Claims use since Feb. 6, 1950.

Ser. No. 601,643. David Round & Son, Cleveland, Ohio. Filed Aug. 2, 1950.

Round

For Trolleys—Namely, Overhead, Monorail, and I-Beam; Cranes—Namely, Portable, Gantry, Travelling, Jib, Derrick, and Stationary; Winches—Namely, Drum, Wall, Derrick, and Inclined; Hoists—Namely, Chain, Cable, Trolley, Torpedo, Twin-Hook, Extended Handwheel, and Differential; and Parts of the Foregoing.
Claims use since Mar. 27, 1907.

Ser. No. 601,644. David Round & Son, Cleveland, Ohio. Filed Aug. 2, 1950.



For Trolleys—Namely, Overhead, Monorail, and I-Beam; Cranes—Namely, Portable, Gantry, Travelling, Jib, Derrick, and Stationary; Winches—Namely, Drum, Wall, Derrick, and Inclined; Hoists—Namely, Chain, Cable, Trolley, Torpedo, Twin-Hook, Extended Handwheel, and Differential; and Parts of the Foregoing.
Claims use since Mar. 22, 1937.

Ser. No. 602,029. Gray Marine Motor Company, Detroit, Mich. Filed Aug. 10, 1950. (Sec. 2f.)

GRAY

Applicant claims ownership of Registrations Nos. 116,877, 284,651, and 390,896.
For Internal Combustion Engines for General Power Application: Namely, Industrial and Marine Engines and Parts Therefor—Namely, Carburetors, Water Pumps, Fuel Pumps, Oil Pressure and Oil Scavenge Pumps; Governors and Engine Speed Controlling Mechanisms; Power Transmissions, Comprising Clutches, Reduction Gearing Assemblies, Power Take-Off Shafts and Mechanical Drive Mechanisms; Accessory Machine Mountings and Accessory Drive Mechanisms, and Engine Mountings.
Claims use since December 1905.

Ser. No. 602,030. Gray Marine Motor Company, Detroit, Mich. Filed Aug. 10, 1950. (Sec. 2f.)

GRAYMARINE

Applicant claims ownership of Registrations Nos. 116,877, 284,651, and 390,896.
For Internal Combustion Engines for General Power Application: Namely, Industrial and Marine Engines and Parts Therefor—Namely, Carburetors, Water Pumps, Fuel Pumps, Oil Pressure and Oil Scavenge Pumps; Governors and Engine Speed Controlling Mechanisms; Power Transmissions, Comprising Clutches, Reduction Gearing Assemblies, Power Take-Off Shafts and Mechanical Drive Mechanisms; Accessory Machine Mountings and Accessory Drive Mechanisms, and Engine Mountings.
Claims use since December 1922.

Ser. No. 605,829. Alloy Steel and Metals Company, Los Angeles, Calif. Filed Oct. 30, 1950.

PACIFIC

For Rock Crushers, Sheave Blocks, Sheave Anchors, Slushing Scrapers, Rock Bit Grinders, Renewable Tractor Sprocket Rims, and Rock Bit Knockoff Tools.
Claims use since March 1935.

Ser. No. 607,319. Drum Equipment Corporation, Elizabeth, N. J. Filed Dec. 6, 1950.

DECO

For Metal Drum and Container Reconditioning Equipment—Namely, Automatic Combination Stripping, Buffing, and Rinsing Machines, Automatic Chime Resealers, Automatic Chainers, Machines for Removing Dents From Metal Drums, Mechanical Scrubbers, and Machines for Automatically Buffing and Spraying Refinishing Material Upon Metal Containers.

Claims use since Feb. 17, 1950.

Ser. No. 611,047. Ernest A. Stienen, New York, N. Y. Filed Mar. 8, 1951. (Sec. 2f.)

Obermaier

Applicant claims ownership of Registration No. 285,181.

For Dyeing Machinery, Drying Machinery of the Centrifugal Type, and Machines for Extracting Fluid From Textiles.

Claims use since Apr. 1, 1928.

Ser. No. 613,508. Harold R. Forney, Surprise, Nebr. Filed May 4, 1951.

HI-WA

For Extensible Hitches Employed for Coupling a Tractor to a Cargo Transporting Wagon.

Claims use since on or about Apr. 27, 1951.

Ser. No. 617,065. Supreme Products, Inc., Chicago, Ill. Filed July 27, 1951.



For Chucks and Parts Thereof, and Chuck Key and Chuck Adaptor.

Claims use since March 1949.

Ser. No. 617,258. Meat Packers Equipment, Inc., Melbourne, Fla. Assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio. Filed Aug. 2, 1951.

"NEW DEPARTURE"

For Plates and Adapter Unit for Grinding Machines for Grinding Meats, Nuts, Food Products, Soaps, Washing Powders, and Like Materials, Consisting of Extrusion Plate, Plate Holder and Knives, and Individual Replacements Thereof.

Claims use since July 1, 1949.

Ser. No. 623,384. Aktiebolaget Tetra Pak, Lund, Sweden. Filed Jan. 10, 1952.

TETRA PAK

No claim is made of the exclusive use of the word "Pak" apart from and except in association with the rest of the mark. Applicant claims ownership of Swedish Registration No. 71,196, dated Dec. 14, 1951.

For Package Forming, Filling, and Sealing Machines for Simultaneously Making, Filling, and Sealing Non-Vitreous Packages Made of Flexible Sheet Material Which Have the Shape of a Substantially Regular Tetrahedron, Each of the Four Sides of Which Is a Substantially Regular Triangle.

Claims use since on or about the latter part of March 1951; and use in commerce between Sweden and the United States on or about the end of March 1951.

Ser. No. 623,386. Aktiebolaget Tetra Pak, Lund, Sweden. Filed Jan. 10, 1952.

TETRA PAK

No claim is made to the exclusive use of the word "Pak" apart from and except in association with the rest of the mark. Applicant claims ownership of Swedish Registration No. 71,204, dated Dec. 14, 1951.

For Package Forming, Filling, and Sealing Machines for Simultaneously Making, Filling, and Sealing Non-Vitreous Packages Made of Flexible Sheet Material Which Have the Shape of a Substantially Regular Tetrahedron, Each of the Four Sides of Which is a Substantially Regular Triangle.

Claims use since on or about the latter part of March 1951; and use in commerce between Sweden and the United States on or about the end of March 1951.

Ser. No. 627,221. Pittsburgh Lectromelt Furnace Corporation, Pittsburgh, Pa. Filed Mar. 28, 1952.

Lectrocharger

For Bottom Hinged Buckets Adapted To Be Suspended From a Crane Hook or Other Maneuvering Apparatus Into Which Scrap Iron or Other Metal To Be Melted is Loaded and Transported Into Position for Charging the Same Into a Furnace.

Claims use since 1922.

Ser. No. 627,366. Fox River Tractor Co., Appleton, Wis. Filed Jan. 17, 1952.

FOX

For Forage Harvesters, Forage Blowers, Bale Breakers, and Ensilage Cutters.

Claims use since Nov. 25, 1920.

Ser. No. 628,005. Modern Village Stores, Inc., El Monte, Calif. Filed Apr. 12, 1952.

Zephyr

For Checkout Counter With Built-In Motor and Conveyor Belt for Conveying Parcels at the Pay Station in a Self-Service Market or the Like.

Claims use since on or about Sept. 9, 1951.

Ser. No. 630,001. Newark Pattern Works, Newark, N. J., assignor to Shell-O-Matic, Inc, Newark, N. J. Filed June 7, 1952.

SHELL-O-MATIC

Exclusive use of "Shell" is not claimed except in association with the rest of the mark. The lining on the drawing indicates the color red.

For Mold Making Machinery for Making Shell Molds for Metal Casting.

Claims use since May 2, 1952.

Ser. No. 634,524. Dependable Machine Company, Greensboro, N. C. Filed Aug. 27, 1952.

Dependable DF

The word "Dependable" is disclaimed apart from the mark shown in the drawing.

For Woodworking Machinery—Namely, Woodworking Moulders and Accessories or Attachments Therefor—Namely, Knife Grinders, Cutter Head Grinders, Side Head Grinders, Knife Balancers, Knife Jointers, Knife Setting Stands, Gang Rip Saws, Saw Grinders, Cutter Heads and Knives.

Claims use since October 1949.

Ser. No. 640,367. Woodmanse Mfg. Co., Freeport, Ill. Filed Jan. 5, 1953.

BēP

For Belt Driven, Shallow and Deep Well, Ejector or Jet Pumps.

Claims use since July 9, 1952.

Ser. No. 641,586. John Waldron Corporation, Highland Park, N. J. Filed Jan. 30, 1953.

ECCO

For Roll Coater, Impregnator, and Laminator Machines.

Claims use since on or about Oct. 19, 1951.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 622,012. Tingue, Brown & Co., New York, N. Y. Filed Dec. 27, 1951. (Sec. 2f.)

EVERWEAR

For Cotton Padding for Laundry Machinery Rolls.

Claims use since June 21, 1919.

Ser. No. 626,614. Henry J. Fawcett, Cleveland, Ohio. Filed Mar. 18, 1952.



The picture of the man and woman on the drawing is fanciful.

For Apparatus for Steam-Treating Clothes Which Removes the Wrinkles Therefrom and May Also Effect a Partial Cleaning Action Thereon.

Claims use since Dec. 15, 1949.

CLASS 25

LOCKS AND SAFES

Ser. No. 633,046. Fiat Società per Azioni, Turin, Italy. Filed July 25, 1952.

FIAT

Applicant claims ownership of Italian Registration No. 101,700, dated Apr. 12, 1951.

For Locks and Metallic Cabinets for Use as Safes.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 580,658. Golde Manufacturing Co., Chicago, Ill. Filed June 17, 1949.

Reflex

For Photographic Projectors for Transparencies and Slides, Mounted or Unmounted.

Claims use since Jan. 17, 1949.

Ser. No. 604,355. Buck Engineering Company, Inc., Freehold, N. J. Filed Oct. 3, 1950.

BENCO

For Vacuum Tube Testing and Inspecting Apparatus and Instruments.

Claims use since July 28, 1950.

Ser. No. 613,562. The Diversey Corporation, Chicago, Ill. Filed May 5, 1951.

Divomatic

For a Solution Feeding Attachment for Commercial Can Washers, Bottle Washers, and the Like Provided With an Electronically Operated Mechanism for Controlling the Feeding of Chemicals Into the Washing or Cleaning Solution To Maintain a Predetermined Level of Concentration.

Claims use since Apr. 20, 1951.

Ser. No. 613,647. Lion Manufacturing, Inc., Columbus, Ohio. Filed May 8, 1951.



The words "Roto Poise" are disclaimed apart from the mark as shown.

For an Electronic Instrument Which Simultaneously Regiatera the Amplitude of Vibration in Linear Displacement and the Frequency of Its Occurrence, and at the Same Time Stroboscopically Isolatea the Part or Parts Moving at This Frequency.

Claims nae since Nov. 1, 1950.

Ser. No. 621,423. Milton Roy Company, Philadelphia, Pa. Filed Nov. 19, 1951.

miniAir

Applicant disclaims the term "Air" apart from the mark as shown.

For Air-Powered Controlled Volume Pump.

Claims use since on or about Sept. 15, 1951.

Ser. No. 635,104. Tektronix, Inc., Portland, Oreg. Filed Sept. 10, 1952. (Sec. 2f.)



The representation of the cathode-ray tube is disclaimed apart from the mark.

For Electronic Measuring Instruments and Auxiliary Apparatus—Namely, Oscilloscopes, Wave Generators, Amplifiers, and Preamplifiers for Use with Oscilloscopes and Time Mark Generators for Use in Testing and Calibration.

Claims use since June 21, 1947.

Ser. No. 636,508. Bausch & Lomb Optical Company, Rochester, N. Y. Filed Oct. 11, 1952.

BAL-SPEC

No exclusive claim is made to the word "Spec" apart from the mark as shown.

For Eyeshields and Goggles.

Claims use since Aug. 22, 1952.

Ser. No. 637,990. Electronic Beam Corporation, Yonkers, N. Y. Filed Nov. 13, 1952.

"EBCO"

For Testing Apparatus Used for Measuring Leakages and Shorts in Radio and Television Sets, and for Checking Open Elements Such as Cathode Emissions, Filament Voltage in Radio and Television Sets.

Claims use since November 1951.

Ser. No. 638,085. International Research and Development Corporation, Columbus, Ohio. Filed Nov. 14, 1952.

VIBRATRON

For Electrically Responsive Vibration Detecting and Indicating Apparatus.

Claims use since May 1952.

Ser. No. 639,448. Technology Instrument Corporation, Acton, Mass. Filed Dec. 13, 1952.

PONOGOMETER

For Measuring Instrument for Determining the Resistance of One Leg of a Wye Network.

Claims use since May 9, 1952.

Ser. No. 639,600. Willson Products, Inc., Reading, Pa. Filed Dec. 16, 1952.



For Sun Glasses.

Claims use since Nov. 5, 1952.

Ser. No. 639,608. Armco Mercantile Co., Chicago, Ill. Filed Dec. 17, 1952.

Magnocular

For Magnifying Spectacles.

Claims use since on or about Apr. 25, 1951.

Ser. No. 639,614. Bell & Howell Company, Chicago, Ill. Filed Dec. 17, 1952.

202

For Sound Accompanied Motion Picture Projectors.

Claims use since Dec. 12, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 611,748. Admea S. A. R. L., Geneva, Switzerland. Filed Mar. 26, 1951.

INDIMATIC

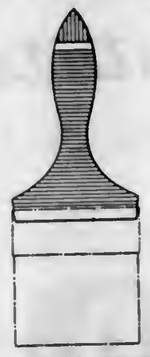
Applicant claims ownership of Swiss Registration No. 134,091, dated June 28, 1950; and United States Registration No. 556,007.

For Automatic Watches.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 603,901. Star Brush Manufacturing Co., Inc., Boston, Mass., Filed Sept. 22, 1950.

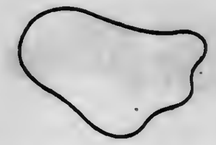


No claim is made to the representation of the brush handle or of the brush itself. The mark consists of the color blue applied to the brush handle from the ferrule toward the tip, a white band about ¼'' in width above the blue, and the color red approximately 1'' in length from the white band to the tip. Applicant claims ownership of Registration No. 544,768.

For Brushes for Painting, Varnishing, or Applying Liquids and for Cleansing, Polishing, and Sweeping.

Claims use since Jan. 10, 1950.

Ser. No. 614,654. Dow Corning Corporation, Midland, Mich. Filed June 2, 1951.



For Silicone Treated Fabrics for Use in Polishing Glass and Other Smooth Surfaces.

Claims use since March 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 551,195. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Mar. 4, 1948. (Sec. 2f.)

DUSTOP

The lining shown in the drawing indicates shading only.

Applicant claims ownership of Registration No. 294,370.

For Air Filters in the Form of Adhesive-Coated Porous or Fibrous Materials, and for Supporting Frames for Air Filters Arranged in Tiers.

Claims use since January 1936 on the mark as shown; and since Nov. 30, 1931 in a different form.

Ser. No. 551,196. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Mar. 4, 1948. (Sec. 2f.)

DUST STOP

Applicant claims ownership of Registration No. 294,370.

For Air Filters in the Form of Adhesive-Coated Porous or Fibrous Materials, and for Supporting Frames for Air Filters Arranged in Tiers.

Claims use since July 1947 on the mark as shown; and since Nov. 30, 1931 in another form.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 596,488. Eastern Art Products, Chicago, Ill. Filed Apr. 28, 1950.

Midnight Jewel

For Picture Frames Made of Glass, Wood and Glass, and Composition and Glass; Table Tops; and Glass Ornamental Trimming for Table Tops.

Claims use since Dec. 27, 1949.

Ser. No. 613,350. Superior Sleeprite Corporation, Chicago, Ill. Filed Apr. 30, 1951.

Satin-Sleep

Applicant claims the exclusive right to the use of the word "Satin" as a part of its trade-mark, but not otherwise.
For Mattresses and Box Springs.
Claims use since Mar. 6, 1951.

Ser. No. 616,278. Century Industries, Inc., Chicago, Ill. Filed July 10, 1951.

ORIGINAL DuraTone CREATION

Applicant makes no claim to the words "Original Creation" apart from the mark as shown. The drawing is lined for shading only.
For Picture, Photograph, and Mirror Frames.
Claims use since June 3, 1951.

Ser. No. 617,213. Rose-Derry Company, Newton, Mass. Filed Aug. 1, 1951. (Sec. 2f as to "Firmbak.")

Firmbak Flexiboard

Applicant claims ownership of Registrations Nos. 420,332 and 559,063.
For Mattresses.
Claims use since June 27, 1951 on the mark as shown; and since Jan. 4, 1945 as to "Firmbak."

Ser. No. 627,157. Welcraft Products Co., Inc., North Liberty, Ind. Filed Mar. 27, 1952.

WELCRAFT

For Back Rests for Seats for Sports Use.
Claims use since Oct. 5, 1951.

Ser. No. 628,539. Karl M. Jacobs, Fowler, Ind. Filed Apr. 23, 1952.

CHAIR-AWAY

No claim is made to the word "Chair" apart from the mark as shown on the drawing.
For Combined Table and Chair.
Claims use since June 21, 1951.

Ser. No. 633,310. Laminated Screens, Inc., New York, N. Y. Filed July 31, 1952.

TAPESTRON

For Articles for Interior Decorating—Namely, Screens for Domestic Divisional Purposes, Window Shades.
Claims use since on or about May 5, 1948.

Ser. No. 634,370. F. S. Harmon Manufacturing Company, Tacoma, Wash. Filed Aug. 23, 1952.

HIDE-A-LEAF

No claim is made to the exclusive use of the word "Leaf" apart from the mark shown in the drawing.
For Dinette and Kitchen Tables.
Claims use since June 14, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 625,078. Noma Electric Corporation, New York, N. Y., and Hamilton, Ohio, assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Filed Feb. 16, 1952.

Estate

Applicant claims ownership of Registrations Nos. 27,832, 32,330, and others.
For Gas Stoves, Ovens, and Parts Thereof.
Claims use since Sept. 15, 1951; and since Feb. 1, 1880, in a different form.

Ser. No. 637,093. Paul J. Thompson, doing business as Patco Mfg. Co., Philadelphia, Pa. Filed Oct. 23, 1952.

Patco

For Hot Air Conduits and Registers.
Claims use since Aug. 13, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 624,279. Laher Spring and Tire Corporation, Oakland, Calif. Filed Jan. 30, 1952.

Laher

MUSTANG FREEWAY

Applicant disclaims the words "Laher" and "Freeway" apart from the mark as shown.
For Automobile and Truck Pneumatic Tires.
Claims use since Jan. 22, 1952.

Ser. No. 630,101. Baxter Rubber Company, Newark, N. J. Filed Dec. 6, 1952.

BARUCO

For Hoses, Packings, and Diaphragms Made Wholly or in Part of Rubber or Synthetic Rubber Compositions.
Claims use since 1947.

Ser. No. 640,663. Apex Tire & Rubber Co., Pawtucket, R. I. Filed Jan. 13, 1953.

Trulite

For Plastic Garden Hose.
Claims use since May 1, 1952.

Ser. No. 641,208. Quaker Rubber Corporation, Philadelphia, Pa. Filed Jan. 23, 1953.

MAINLINER

For Lawn Hose and Conveyor Belting.
Claims use since Apr. 15, 1951.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 626,946. Wm. Kratt Co., Union, N. J. Filed Mar. 24, 1952.

SUPER Chromatic 40

The words "Super Chromatic" are hereby disclaimed apart from the mark as shown.
For Harmonicas.
Claims use since Oct. 13, 1950.

Ser. No. 633,088. Sociedad Importadora Comercial Americana, Buenos Aires, Argentina, South America. Filed July 25, 1952.

MUSIC HALL

For Grooved Phonograph Records.
Claims use since Dec. 1, 1951; and first used on said goods in commerce beween foreign nations and the United States on Dec. 1, 1951.

Ser. No. 636,401. Alan Record Co. Inc., Boston, Mass. Filed Oct. 9, 1952.



The drawing is lined for the colors gold and blue. The representation of a record and the word "Records" are disclaimed apart from the mark as shown in the drawing.
For Grooved Phonograph Records.
Claims use since Sept. 12, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 537,592. George B. Hurd, Inc., New York, N. Y. Filed Oct. 11, 1947. (Sec. 2f.)

HURDS

SUEDE FINISH

No claim is made to the words "Suede Finish" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 23,500, 82,988, and others.
For Writing Paper and Envelopes.
Claims use since Jan. 1, 1893.

Ser. No. 537,721. The Oakford Company, Peoria, Ill. Filed Oct. 13, 1947.

BLUE RIBBON

The mark consists of the words "Blue Ribbon," imposed upon the representation of a blue ribbon and bows, the representation of the ribbon and bows continuing around the container. The drawing is lined for the color blue.
For Toilet Tissue, Writing Tablets, Paper Kitchen Towels.
Claims use since 1892.

Ser. No. 618,762. Gene E. Saffell, Minneapolis, Minn. Filed Sept. 13, 1951.

TWIN-VELOPE

For Combination Mailing Envelopes and Partially Printed Business Statements.
Claims use since 1945.

Ser. No. 619,690. Waxide Paper Company, Kansas City, Mo. Filed Oct. 6, 1951.

POLAR-KOTE



LOCKER PAPER

The words "Locker Paper" are disclaimed apart from the mark as used.
For Coated, Strong, Moldable, and Moisture Vapor Retaining Paper for Wrapping Food Products for Storage in Freeze Compartments.
Claims use since Aug. 29, 1951.

Ser. No. 623,645. Theron E. Capp, Duncan, Okla. Filed Jan. 16, 1952.



No registration rights are claimed for the words "The Bookkeeper's Friend" apart from the mark shown.
For Binders for Holding Accounting Forms and Blank Forms Therefor.
Claims use since May 23, 1951.

Ser. No. 626,816. Packaging Materials Corp., Providence, R. I. Filed Mar. 21, 1952.

PILLO-BOARD

No claim is made to the word "Board" alone. Applicant claims ownership of Registration No. 566,542.
For Corrugated Paper Board.
Claims use since on or about Jan. 11, 1952.

Ser. No. 626,817. Packaging Materials Corp., Providence, R. I. Filed Mar. 21, 1952.

PILLO-FLEX

Applicant claims ownership of Registration No. 566,542.
For Corrugated Paper Board.
Claims use since on or about Aug. 17, 1951.

Ser. No. 626,818. Packaging Materials Corp., Providence, R. I. Filed Mar. 21, 1952.

PILLO-PAD

No claim is made to the word "Pad" alone. Applicant claims ownership of Registration No. 566,542.
For Corrugated Paper Board.
Claims use since on or about Dec. 13, 1951.

Ser. No. 630,061. Marion Donovan, Saugatuck, Conn. Filed May 22, 1952.

1 - 2 TISSUE

The word "Tissue" is disclaimed apart from the mark as shown.
For Facial Tissue.
Claims use since Mar. 15, 1952.

Ser. No. 634,372. Kehr Paper Products Co., Philadelphia, Pa. Filed Aug. 23, 1952.

PROTO WRAP

The applicant disclaims the word "Wrap" alone and apart from the mark as shown.
For Wrapping Paper.
Claims use since on or about Mar. 8, 1951.

Ser. No. 636,570. Milton B. May, Oklahoma City, Okla. Filed Oct. 13, 1952.



All wording shown on the drawing except "Certif-A" is disclaimed apart from the mark shown.
For Combined Gift Certificate and Greeting Card.
Claims use since July 21, 1952.

Ser. No. 639,029. Ferber Corporation, Englewood, N. J. Filed Dec. 5, 1952.

"The WRITE Line to Profits"

For Ball Point Pens, Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets.
Claims use since on or about October 1951.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 550,278. Virginia Smelting Company, West Norfolk, Va. Filed Feb. 20, 1948. (Sec. 2f as to "Virginia.")



Applicant claims ownership of Registrations Nos. 526,525 and 554,280.
For Printed Publications Published Periodically in the Form of Pamphlets and Bulletins Relating to Machinery and Chemicals and Their Use in Commercial Processes.
Claims use since Jan. 10, 1940.

Ser. No. 625,995. News Syndicate Co. Inc., New York, N. Y. Filed Mar. 5, 1952.



In the drawing the word "Beyond" is lined for the color red
For Comic Strips.
Claims use since Feb. 17, 1952.

Ser. No. 626,929. Alice Trachtenberg, Zurich, Switzerland. Filed Mar. 21, 1952.



Zwei-Finger-Methode
SYSTEM TRACHTENBERG

Priority under Sec. 44(d). Swiss application, filed Oct. 12, 1951, Registration No. 140,718, dated Feb. 2, 1952. "Zwei-Finger-Methode System Trachtenberg" shown on the drawing, reading, in translation "Two-Finger-Method System Trachtenberg" are herewith disclaimed.
For Brochures, Leaflets, Textbooks.

Ser. No. 627,027. American Federation of Technical Engineers, Washington, D. C. Filed Mar. 26, 1952. CERTIFICATION MARK.



The applicant disclaims use of the wording and lettering apart from the mark shown in the drawing.
For Blueprints and Engineering Drawings.
Claims use since May 1, 1951.

CLASS 39

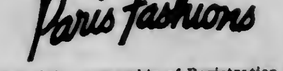
CLOTHING

Ser. No. 511,389. Her Majesty Underwear Company, West Columbia, S. C., and New York, N. Y. Original filed, act of 1905, Oct. 24, 1946; amended to application under act of 1946, Principal Register, Mar. 23, 1953.



Applicant claims ownership of Registration No. 222,963.
For Infants', Girls', Pre-Teens', Teens', Women's Slips, Half Slips, Panties, Nightgowns, and Pajamas.
Claims use since October 1946, on the mark as shown; and since April 1905, as to "Her Majesty."

Ser. No. 544,955. Wohl Shoe Company, St. Louis, Mo. Filed Dec. 19, 1947. (Sec. 2f.)



Applicant claims ownership of Registration No. 347,678.
For Shoes, Particularly for Ladies' and Misses' Shoes Made of Leather or Fabric or Combinations of the Same.
Claims use since Aug. 1, 1929.

Ser. No. 554,736. Thompson Bros. Shoe Co., Brockton, Mass. Filed Apr. 15, 1948. (Sec. 2f.)



The words "Club Foot" and "Shoe" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 296,764.
For Children's Boots and Shoes.
Claims use since on or about May 29, 1931.

Ser. No. 554,737. Thompson Bros. Shoe Co., Brockton, Mass. Filed Apr. 15, 1948. (Sec. 2f.)



The words "Pre-Walker," "Club Foot" and "Shoe" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 296,764.
For Children's Boots and Shoes.
Claims use since on or about Feb. 9, 1940.

Ser. No. 559,332. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Sec 2f.)

Fashion Tailored

Applicant claims ownership of Registrations Nos. 273,036 and 369,844.
For Men's, Young Men's, and Youths' Clothing—Namely, Overcoats, Suits, Trousers, Raincoats, Topcoats, Sport Coats.
Claims use since May 9, 1929.

Ser. No. 577,016. Atlas Overall Company, Philadelphia, Pa. Filed Apr. 8, 1949.



The following words are disclaimed: "Atlas Overall Co. Phila., Pa." and the descriptive words "Western Style."
For Men's and Women's Dungarees.
Claims use since on or about Mar. 1, 1948.

Ser. No. 592,140. Foot Pleasure Shoe Company, St. Louis, Mo. Filed Feb. 8, 1950.

Sparkle Teens

The word "Teens" is disclaimed apart from the mark.
For Shoes for Children and Girls.
Claims use since Jan. 15, 1950.

Ser. No. 605,926. Stineway Drug Company, Chicago, Ill. Filed Nov. 4, 1950.

ballerina

For Women's Hosiery.
Claims use since August 1950.

Ser. No. 607,848. Eagle Clothes, Inc., New York, N. Y. Filed Dec. 19, 1950.

FLEETWOOD

For Men's Clothing—Namely, Coats, Topcoats, and Suits.
Claims use since July 26, 1950.

Ser. No. 607,920. R. G. Barry Corporation, Columbus, Ohio. Filed Dec. 21, 1950.

Angel-Treads

For Scuffs or Slippers for Men and Women.
Claims use since January 1948.

Ser. No. 614,098. Goldblatt Bros. Inc., Chicago, Ill. Filed June 4, 1951. CONCURRENT USE with Reg. No. 376,302, for the area comprising the States of Illinois and Indiana.

Lady Beautiful

For Ladies' Underwear, Slips, Nightgowns, and Pajamas.
Claims use since Apr. 21, 1937.

Ser. No. 617,188. Chalet, Inc., Dallas, Tex. Filed Aug. 1, 1951.

Chalet of Dallas

The words "Of Dallas" are disclaimed separate and apart from the mark shown in the drawing.
For Women's, Misses', Juniors', and Children's Dresses, Suits, Jackets, Skirts, Blouses, Slacks, Bras, Vests, Toppers and Pedal-Pushers; Women's, Misses' and Juniors' Shorts.
Claims use since Jan. 15, 1949.

Ser. No. 618,099. The Russell Manufacturing Company, Alexander City, Ala. Filed Aug. 25, 1951.

Randknit

For Men's and Boys' Apparel and Sportswear—Namely, Undershirts, Vests and Union Suits, Sweat Shirts, Sweaters, Outer Shirts, and Warm-Up Jackets.
Claims use since Aug. 5, 1950.

Ser. No. 622,421. Amco Athletic Apparel Corp., New York, N. Y. Filed Dec. 13, 1951.

REDDI-JAC

No claim is made to the exclusive use of the word "Jac" apart from the mark as shown.
For Men's, Women's, Boys', and Girls' Jackets.
Claims use since Nov. 5, 1951.

Ser. No. 622,870. Thalheim's Wearwell Shoe Co. Inc., New York, N. Y. Filed Dec. 26, 1951.

BETZY CROSS

"Betzy Cross" is a fanciful name. Applicant claims ownership of Registration No. 355,406.
For Leather and Rubber Shoes.
Claims use since Oct. 11, 1937.

Ser. No. 623,048. Feder Industries, Inc., New York, N. Y. Filed Jan. 2, 1952.

"Lacy Susan"

For Ladies' Slippers.
Claims use since October 1950.

Ser. No. 625,183. American Cyanamid Company, New York, N. Y. Filed Feb. 19, 1952.

X—51

For Clothing Containing Synthetic Fiber—Namely, Hosiery Containing Such Fiber.
Claims use since Feb. 11, 1952.

Ser. No. 627,745. Handcraft Company, Inc., Princeton, Wis. Filed Apr. 8, 1952.

SKUL-KUMS

For Shoes for Men, Women, and Children.
Claims use since Mar. 5, 1952.

Ser. No. 627,749. Jack Charles, Inc., Milwaukee, Wis. Filed Apr. 8, 1952.

jack charles

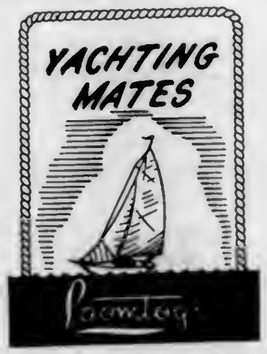
The name "Jack Charles" is fanciful.
For Men's and Women's Sport Shirts and Under Shirts and Men's Dress Shirts.
Claims use since Oct. 31, 1947.

Ser. No. 627,786. Balstone, Cooke & Rayonese Limited, Manchester, England. Filed Mar. 8, 1952.

"STAYBINOL"

Applicant claims ownership of British Registration No. 698,870, dated June 8, 1951.
For Men's and Boys' Hats, Scarves, Coats, Suits, Jackets, Waistcoats, Trousers, and Dressing-Gowns; and Women's and Girls' and Children's Hats, Scarves, Suits, Costumes, Coats, Skirts, Trousers, Jackets, Waistcoats, Blouses, Dresses, Dressing-Gowns, and Housecoats.

Ser. No. 629,576. Loomtogs, Inc., New York, N. Y. Filed May 12, 1952.



Applicant claims ownership of Registration No. 436,459.
For Junior and Misses' Skirts, Slacks, Shorts, Pedal Pushers, Blouses, Waists, Bras, Vests, Culottes, Pinafores, Jackets, and Dresses.
Claims use since Jan. 10, 1951.

Ser. No. 629,961. Shoe Corporation of America, Columbus, Ohio. Filed May 20, 1952.

"STATE CHAMPS"

For Men's, Women's, and Children's Basketball Shoes.
Claims use since Mar. 24, 1952.

Ser. No. 630,092. Dave Robins, Dallas, Tex. Filed May 22, 1952.

Jan Leslie

The name "Jan Leslie" is purely fanciful.
For Women's Hats.
Claims use since July 1, 1948.

Ser. No. 630,097. Franklin Simon & Co. Inc., New York, N. Y. Filed May 22, 1952. (Sec. 2f.)

Wendell

Applicant claims ownership of Registrations Nos. 251,003 and 523,837.
For Women's, Misses', and Girls' Shoes.
Claims use since Mar. 31, 1952.

Ser. No. 630,451. Sanson Hosiery Mills, Inc., Philadelphia, Pa. Filed May 28, 1952.

WHIFF CHIFFON

Applicant disclaims the word "Chiffon" apart from the mark as shown. Applicant claims ownership of Registration No. 294,336.
For Women's Hosiery.
Claims use since May 23, 1952.

Ser. No. 630,457. Stedman Manufacturing Company, Asheboro, N. C. Filed May 28, 1952. (Sec. 2f.)

Stedman

Applicant claims ownership of Registrations Nos. 500,782 and 509,170.
For Men's and Boys' Underwear.
Claims use since April 1947.

Ser. No. 630,539. Julius Kayser & Co., New York, N. Y. Filed May 31, 1952.

WONDERLON

For Hosiery for Women.
Claims use since May 12, 1952.

Ser. No. 630,765. David Crystal, Inc., New York, N. Y. Filed June 5, 1952.

ALPACALIN

For Ladies' Dresses, Skirts, Suits, and Blouses.
Claims use since March 1952.

Ser. No. 631,651. Craftshire Sports, Inc., New York, N. Y. Filed June 24, 1952.

Renee' Fran
SUITS
AMERICA

No claim is made to the expression "Suits America" apart from the mark as shown. Applicant claims ownership of Registration No. 526,365.
For Women's and Misses' Suits.
Claims use since Jan. 2, 1952.

Ser. No. 632,242. Casual Sportswear Co. Inc., New York, N. Y. Filed July 8, 1952.

GAB LON

No registration rights are claimed for the notation "Gab" apart from the mark shown in the drawing.
For Men's and Women's Slacks and Trousers.
Claims use since Jan. 21, 1952.

Ser. No. 635,261. General Shoe Corporation, Nashville, Tenn. Filed Sept. 15, 1952.

Range Pals

For Shoes for the Use of Men, Women, and Children Made of Leather, Fabric, and Combinations Thereof.
Claims use since Feb. 1, 1952.

Ser. No. 635,568. Harry Myers and Company, Inc., Baltimore, Md. Filed Sept. 3, 1952.

Styleplus

Applicant claims ownership of Registrations Nos. 85,292, 91,388, 157,584, and 163,175.
For Men's and Boys' Suits, Overcoats, Rain-Coats, Vests, Children's Suits, Slip Coats, Trousers, Overalls, Drawers, Top-Coats, Shoes, Underwear, Outer Shirts, and Hats.
Claims use since on or about Aug. 22, 1911.

Ser. No. 636,186. C. P. Ouimet Shoe Company Limited, Montreal, Quebec, Canada. Filed Sept. 29, 1952.

WHITE CROSS SHOES

The word "Shoes" contained in the mark is hereby disclaimed. The drawing is lined for shading purposes only.
Applicant claims ownership of Canadian Registration No. N. S. 33,510, dated Oct. 27, 1949, and Canadian Registration No. N. S. 39,547, dated Oct. 5, 1951.
For Women's Shoes.

Ser. No. 636,339. Cannon Shoe Company, Baltimore, Md. Filed Oct. 8, 1952.

Beauty Pageant
CREATIONS

The picture of the girl in the drawing is fanciful. No claim is made to the word "Creations" apart from the mark shown. Applicant claims ownership of Registration No. 555,036.
For Ladies' Shoes Made of Leather, Fabric, Rubber, and/or Any Combinations Thereof.
Claims use since Oct. 31, 1950.

Ser. No. 636,342. City Stores Company, Philadelphia, Pa. Filed Oct. 8, 1952.

CS
City Miss
Fashions

The word "Fashions" is disclaimed, except in the combination as shown in the drawing. The drawing is lined for shading purposes only.
For Ladies' Coats and Suits.
Claims use since Aug. 1, 1952.

Ser. No. 636,486. Maurice J. Markell, New York, N. Y. Filed Oct. 10, 1952.

TARSO MEDIUS

Applicant claims ownership of Registration No. 330,104.
For Men's, Women's, and Children's Shoes Made of Leather, Rubber, or Fabrics, and of Combinations of These Materials.
Claims use since June 1, 1952.

Ser. No. 636,847. Frishman & Gintel, New York, N. Y. Filed Oct. 18, 1952.

Petites 'n Mink

Applicant disclaims the word "Mink" and the pictorial representation of the minks apart from the mark as shown.
For Mink Fur Stoles, Mink Fur Capes, Mink Fur Jackets, and Mink Fur Coats.
Claims use since Oct. 1, 1952.

Ser. No. 636,982. Hiller Bros. & Hiller, Inc., New York, N. Y. Filed Oct. 22, 1952.

Lacey Boodle
by Hillsnor

Applicant claims ownership of Registration No. 415,809.
For Ladies' Outer Garments—Namely, Coats, Suits, Jackets, and Skirts.
Claims use since November 1951.

Ser. No. 637,273. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Oct. 28, 1952.

NEOCEL

Applicant claims ownership of Registrations Nos. 556,954 and 560,924.
For Heels and Soles Composed of an Elastomer and a Resin.
Claims use since July 15, 1952.

Ser. No. 638,311. Petite Miss Co., New York, N. Y. Filed Nov. 19, 1952.

RaTaan

For Ladies' Coats.
Claims use since Mar. 2, 1951.

Ser. No. 638,334. The United States Shoe Corporation, Cincinnati, Ohio. Filed Nov. 19, 1952.

BANDS OF BEAUTY

For Shoes, More Specifically Ladies' Shoes.
Claims use since on or about Nov. 1, 1952.

Ser. No. 638,371. M. A. Oberman & Son, St. Louis, Mo. Filed Nov. 20, 1952.

Air Flyte

For Removable Insoles for Shoes, Formed of Leather, Rubber, and Fabric.
Claims use since Oct. 3, 1952.

Ser. No. 638,963. The Manhattan Shirt Company, New York, N. Y. Filed Dec. 4, 1952.

CHECKOOL

For Men's Outer Shirts and Pajamas.
Claims use since Nov. 19, 1952.

Ser. No. 639,263. Cavu Clothes, Inc., Cincinnati, Ohio. Filed Dec. 10, 1952.

Slanks

For Clothing for Men, Women, and Children—Namely, Pants.
Claims use since on or about Apr. 1, 1947.

Ser. No. 639,530. Continental Mills, Inc., Philadelphia, Pa. Filed Nov. 8, 1952.

ANCUNA

Applicant claims ownership of Registration No. 303,525.
For Men's, Women's, Boys', Girls', Children's, and Infants' Overcoats, Topcoats, Coats, Suits, Vests, Trousers, Slacks, Cloaks, Capes, Coat Sets, and Legging Sets, All Made of Textile Fabrics.
Claims use since Dec. 21, 1932.

Ser. No. 639,840. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 20, 1952.

Searolite

For Shoe Soles, Normally Sold Affixed to Shoes.
Claims use since on or about July 15, 1948.

Ser. No. 639,948. Michaels, Stern & Company, Incorporated, Rochester, N. Y. Filed Dec. 23, 1952.

MOLYNARA

For Men's Suits, Sport Coats, Topcoats, Overcoats, and Separate Trousers.
Claims use since Sept. 5, 1952.

Ser. No. 640,194. Commonwealth Shoe and Leather Company, Whitman, Mass. Filed Dec. 31, 1952. (Sec. 2f.)

Bostonians

Applicant claims ownership of Registrations Nos. 53,669, 347,015, and others.
For Shoes for Men, Women, and Children.
Claims use since the year 1923.

Ser. No. 640,827. Willoform Mfg. Co. Inc., New York, N. Y. Filed Jan. 15, 1953.

lamitrol

For Girdles.
Claims use since Apr. 24, 1951.

Ser. No. 641,491. The Banton Corporation, New York, N. Y., and San Francisco, Calif. Filed Jan. 29, 1953.



For Hunters' Gloves Made of Leather.
Claims use since Jan. 14, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 628,754. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Apr. 26, 1952.

Fedway

For Hand Sewing Needles, Pins, Snap Fasteners, Buttons, Buckles, Bobby Pins, Combs, Hairpins, Eyelets Used for Clothing, Shoes, and the Like; Lace Insertions, Edgings and Medallions, Ribbons in Cut Lengths for Lingerie, Shoulder Straps, and Wrist Watch Straps, Dress Trimmings, Artificial Flowers Used for Trimmings for Clothing and for Millinery Purposes, Dress Shields.
Claims use since Apr. 2, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 612,490. Everfast Fabrics, Inc., New York, N. Y. Filed Apr. 11, 1951. (Sec. 2f.)

EVERSHRUNK

Applicant claims ownership of Registration No. 297,796.
For Piece Goods of Linen, Cotton, Silk, Rayon, Nylon, and Mixtures Thereof.
Claims use since Aug. 19, 1931.

Ser. No. 630,015. National Sure-Fit Quilting Co., Inc., New York, N. Y. Filed May 21, 1952.

Economy

For Quilted Mattress Pads and Protectors.
Claims use since 1920.

Ser. No. 630,344. Oberman Fabrics, Inc., New York, N. Y. Filed May 27, 1952.

RUBICORD

For Piece Goods of Silk, Rayon, Cotton, Synthetic Fibres, and Mixtures Thereof.
Claims use since in or about November 1948.

Ser. No. 630,363. Wayne Weavers, Inc., Philadelphia, Pa. Filed May 27, 1952. (Sec. 2f as to the word "Wayne.")

WAYNE



For Various Fabrics for Use in Draperies and in Upholstering, Made From All Fibres With Which Drapery and Upholstering Fabrics Are Being Made, Including All Natural Fibres Such as Silk, Cotton, Linen, Wool and Mohair, and the various Synthetic Fibres Such as Rayon and Nylon, and Mixtures of Some of the Fibres.
Claims use since about December 1951 as shown; and since September 1945 as to "Wayne" and the bust of General Wayne.

Ser. No. 640,450. Forstmann Woolen Co., Passaic, N. J. Filed Jan. 7, 1953.

CHULETTE

Applicant claims ownership of Registrations Nos. 284,591 and 283,827.
For Woolen Piece Goods.
Claims use since Dec. 31, 1952.

Ser. No. 640,535. The Duplan Corporation, New York, N. Y. Filed Jan. 9, 1953.

TEKNEEK

For Textile Fabrics of Cotton, Wool, Silk, and Synthetic Fibres and Mixtures Thereof.
Claims use since Sept. 2, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 624,741. The Hemingway & Bartlett Mfg. Co., Watertown, Conn. Filed Feb. 9, 1952.

HemBobs

For Thread Marketed in Bobbin Form.
Claims use since on or about Nov. 20, 1950.

Ser. No. 628,715. Raybestos-Manhattan, Inc., Passaic, N. J. Filed Apr. 25, 1952.

Glassbestos

Applicant claims ownership of Registrations Nos. 365,073 and 402,345.
For Asbestos Yarns and Asbestos Thread With a Glass Core.
Claims use since Apr. 8, 1946.

Ser. No. 630,925. Pauline Denham Yarns, Petaluma, Calif. Filed June 9, 1952.

CHALKINE

For Knitting Yarn.
Claims use since about Jan. 1, 1940.

Ser. No. 640,816. Spinnerin Yarn Co., Inc., South Hackensack, N. J. Filed Jan. 15, 1953. (Sec. 2f.)

DRESSY

Applicant claims ownership of Registration No. 339,557.
For Yarn of Natural and Synthetic Fibers and Combinations Thereof.
Claims use since July 29, 1940.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 589,454. La Spirotechnique, Paris, France. Filed Dec. 16, 1949.

HOOKAH

Applicant claims ownership of French Registration No. 393,256, dated Apr. 7, 1949.
For Diving Gear, That is, Respiratory Apparatus for Use by Personnel in Submarines and Divers.

Ser. No. 613,316. The American White Cross Laboratories, Inc., New Rochelle, N. Y. Filed Apr. 30, 1951.

WHITE

CROSS

The drawing is lined for red. Applicant claims ownership of Registration No. 540,747.
For Surgical Dressings, Adhesive Plasters, Adhesive Bandage, Adhesive Tapes, Absorbent Cotton, Prepared Bandages, and Gauze Bandages for Surgical, Medical, Dental, and Veterinary Use.
Claims use since January 1912.

Ser. No. 627,320. Leon Cameto, doing business under the name and style of Production Foundry Company, Oakland, Calif. Filed Mar. 31, 1952.

MISTO$_2$GEN

For Surgical and Medical Body Supports for Supporting the Body of an Infant in an Inclined Position for Draining the Respiratory Tract.
Claims use since June 20, 1950.

Ser. No. 629,347. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed May 8, 1952.

BRIST-O-MATIC

For Hypodermic Syringe for Parenteral Injections of Medicaments.
Claims use since Dec. 18, 1951.

Ser. No. 634,986. Mead Johnson & Company, Evansville, Ind. Filed Sept. 8, 1952. (Sec. 2f as to "Mead.")



Applicant claims ownership of Registrations Nos. 173,340, 184,697, and others.
For Infusion Sets.
Claims use since Apr. 2, 1952, on the mark as shown; and since 1910 on the word "Mead."

Ser. No. 638,595. National Hygienic Products Corp., Akron, Ohio. Filed Nov. 25, 1952.

CHAMP

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Aug. 10, 1950.

Ser. No. 638,844. Galleher, Incorporated, Cleveland, Ohio. Filed Dec. 2, 1952.



For Anesthesia Administering Parts, i. e. Masks, Inhalator Tubes and Re-Breathing Bags.
Claims use since Dec. 30, 1949.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 576,289. Seminole Flavor Company, Chattanooga, Tenn. Filed Mar. 29, 1949. (Sec. 2f.)

DOUBLE ORANGE

Applicant claims ownership of Registration No. 255,971.
For Orange-Flavored, Carbonated, Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor.
Claims use since Jan. 1, 1928.

Ser. No. 576,290. Seminole Flavor Company, Chattanooga, Tenn. Filed Mar. 29, 1949. (Sec. 2f.)

DOUBLE GRAPE

Applicant claims ownership of Registration No. 256,489.
For Grape-Flavored, Carbonated, Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor.
Claims use since Dec. 1, 1927.

Ser. No. 632,553. Ellena Brothers, Etiwanda, Calif. Filed July 15, 1952.

Regina

Applicant claims ownership of Registrations Nos. 311,858, 326,396, and others.
For Grape Juice.
Claims use since Nov. 21, 1951.

Ser. No. 636,731. Petermann Co., Union City, N. J. Filed Oct. 16, 1952.

PECO-PUNCH

The word "Punch" is disclaimed apart from the mark shown.
For Non-Alcoholic, Maltless, Grape-Flavored Soft Drinks.
Claims use since July 19, 1948.

Ser. No. 636,971. The Delaware Punch Company of America, San Antonio, Tex. Filed Oct. 22, 1952.

Del-P-Co

For Concentrates Used in the Preparation of Maltless Soft Drinks.
Claims use since on or about the year 1928.

Ser. No. 637,136. Newport Mineral Water Co. Inc., Newport, Ky. Filed Oct. 24, 1952.

Thin

For Non-Caloric, Carbonated, Maltless Soft Drink.
Claims use since Sept. 4, 1952.

Ser. No. 637,412. Bob White, doing business under the name Bob White Organization, Miami, Fla. Filed Oct. 30, 1952.

HE-MAN

Applicant claims ownership of Registration No. 561,055.
For Fruit and Imitation Fruit Concentrates and Bases for Making Non-Alcoholic, Maltless Soft Drinks and Punch.
Claims use since Sept. 24, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 569,334. Manley, Inc., Kansas City, Mo. Filed Nov. 20, 1948.



The surname "Manley's" is disclaimed apart from the mark as shown. The lining shown in the drawing does not represent any color and is a portion of the mark.
For Popped Popcorn.
Claims use since on or about Apr. 14, 1947.

Ser. No. 582,436. Kathryn, Inc., Chicago, Ill. Filed July 23, 1949.

KAY-AMO

Applicant makes no claim to the word "Amo" alone.
For Ammoniated Chewing Gum.
Claims use since June 1, 1949.

Ser. No. 584,146. National Retailer-Owned Grocers, Inc., Chicago, Ill. Filed Aug. 27, 1949. (Sec. 2f.)

TASTEWELL

For Canned Vegetables, Canned Mushrooms, Canned Prepared Spaghetti, Pork and Beans, Hot Sauce, Tomato Juice, Tomato Puree, Canned Soups, Cocoa, Mincemeat, Canned Shellfish, Canned Fish, Table Syrups, Tomato Catsup, Peanut Butter, Vinegar, Prepared Mustard, Salad Dressing, and Sandwich Spread.
Claims use since June 6, 1935.

Ser. No. 590,074. Dari-King System, Kansas City, Mo. Filed Dec. 29, 1949.



The descriptive word "Dari," a misspelling of "Dairy," is disclaimed. The drawing is lined for blue and yellow but no claim is made as to color.
For Frozen Dairy Products, Specifically Ice Milk, Frozen Custard, and Ice Cream.
Claims use since May 27, 1949.

Ser. No. 593,375. Gerhard W. Stiefvater, doing business as Happy Valley Orchards, Chico, Calif. Filed Mar. 3, 1950.

TOM & JERRY GOLDEN ALMONDS

The words "Golden Almonds" are disclaimed.
For Shelled, Plain Almonds.
Claims use since Oct. 1, 1946.

Ser. No. 596,848. David Kleckner & Son, Inc., Ozone Park, N. Y. Filed May 4, 1950. (Sec. 2f.)

KLECKNER'S

For Food Colors, Gelatine Desserts, Chocolate, Vanilla, Butterscotch, Tapioca, Lemon, and Cocoanut Puddings, Imitation Food Flavoring Extracts, Flavors Which Are Extracts, Concentrates and Oils for Flavoring Food Products, Saffron, Paprika, Essential Oils for Food Purposes, Spices, Spaghetti Sauce Seasoning, All Purpose Seasoning, Gravy-Aide Seasoning and Pizza Pie Seasoning, Pie Filling Powders, Meringue Whip, Hot Cocoa Mix, Cocoa, Fruit Acids for Ice Cream and Baking.
Claims use since in or about August 1931.

Ser. No. 607,108. Zion Industries, Inc., doing business as The Zion Countryside Bakers, Zion, Ill. Filed Nov. 29, 1950.

Twinkle

For Cookies.
Claims use since Sept. 8, 1950.

Ser. No. 627,160. Wilkins-Rogers Milling Company, Inc., Washington, D. C. Filed Mar. 27, 1952.



The drawing is lined for the colors red and green, but color is not claimed as a feature of the mark, no claim is made to the name "Washington" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 141,017 and 269,707.
For Wheat Flour, Self-Rising Flour, and Feed for Poultry and Livestock.
Claims use since 1914.

Ser. No. 627,199. Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, a corporation of Illinois. Filed Mar. 28, 1952.

VOL-PLUS

For Shortening Made From Hydrogenated Meat Fats and Vegetable Fats.
Claims use since Nov. 26, 1951.

Ser. No. 627,200. Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, a corporation of Illinois. Filed Mar. 28, 1952.

VOL-HI

For Shortening Made From Hydrogenated Meat Fats and Vegetable Fats.
Claims use since Nov. 26, 1951.

Ser. No. 627,506. The Humko Co., doing business under the name of Tri-State Refining Co., Memphis, Tenn. Filed Apr. 3, 1952.

LAR-DEX

For Hydrogenated Lard.
Claims use since Mar. 10, 1952.

Ser. No. 630,247. Charles J. Weidner, doing business under the name Weidner Canning Company, Plymouth, Ind. Filed May 24, 1952.

Elca

For Pickles and Pickle Relish.
Claims use since Mar. 6, 1952.

Ser. No. 630,708. Greenwich Preserving Co., Inc., Dunkirk, N. Y. Filed June 4, 1952.

Greenwich Inn

Applicant claims ownership of Registration No. 234,399.
For Jams, Jellies, Fruit Preserves, and Chili Sauce.
Claims use since May 28, 1926.

Ser. No. 630,709. Greenwich Preserving Co., Inc., Dunkirk, N. Y. Filed June 4, 1952.



Applicant claims ownership of Registration No. 234,399.
For Jams, Jellies, Fruit Preserves, and Chili Sauce.
Claims use since May 28, 1926.

Ser. No. 633,694. J. Ossola Co. Inc., also known as J. Ossola Co., New York, N. Y. Filed May 21, 1952. (Sec. 2f as to "Torino.")



All the wording separate from the mark is disclaimed except "Torino." The drawing is lined for red, green, and gold. Applicant claims ownership of Registrations Nos. 303,136 and 539,513.
For Spiced Olives, Packed in Cans or Jars.
Claims use since June 1, 1949, as shown; and since Apr. 15, 1921, as to "Torino."

Ser. No. 636,340. Chun King Sales, Inc., Duluth, Minn. Filed Oct. 8, 1952.

2 in 1

For Chicken Chow Mein, Chow Mein Noodles, Bean Sprouts, Chop Suey Rice, Chop Suey or Chow Mein Vegetables With Meat, Chop Suey Vegetables With Water Chestnuts Added, Water Chestnuts, Bamboo Shoots, Vegetable Chow Mein Without Noodles, Meatless Chow Mein, and Beef Chop Suey All Packaged in Cans.
Claims use since Aug. 15, 1952.

Ser. No. 636,345. Madeleine Cormier, doing business as Bona-Fido Dog Food Co., New York, N. Y. Filed Oct. 8, 1952.

BONA-FIDO

The word "Bona" is disclaimed apart from the mark, as shown.
For Canned Dog Food.
Claims use since Sept. 12, 1952.

Ser. No. 637,784. Murphy Ranch Company, Whittier, Calif. Filed Nov. 7, 1952. (Sec. 2f.)

WHITTIER

Applicant claims ownership of Registration No. 378,210.
For Fresh Citrus Fruits.
Claims use since 1900.

Ser. No. 638,094. Pevely Dairy Company, St. Louis, Mo. Filed Nov. 14, 1952.

Frez-crest

The word "Frez" is disclaimed apart from the mark as shown.
For Vegetable Fat Frozen Dessert, Made From Milk Solids, Vegetable Fat, Sugar, and Other Ingredients
Claims use since Aug. 5, 1952.

Ser. No. 638,673. Union Packing Co. (Canada) Ltd., Toronto, Ontario, Canada. Filed Nov. 26, 1952.

NORTHERN PRINCE

For Canned Hams.
Claims use since July 14, 1952.

Ser. No. 639,551. The Borden Company, New York, N. Y. Filed Dec. 16, 1952.



Applicant disclaims the word "Brand" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 111,905.
For Cheese.
Claims use since June 22, 1950.

Ser. No. 639,991. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed Dec. 24, 1952.



Applicant claims ownership of Registrations Nos. 296,883, 382,135, and others.
For Fresh Oysters.
Claims use since Sept. 1, 1952, as to the mark shown; and since Mar. 28, 1932, as to the mark "Cap'n John's."

Ser. No. 640,009. Rice Growers Association of California, Sacramento, Calif. Filed Dec. 24, 1952.

R.G.A.

Applicant claims ownership of Registration No. 553,836.
For Rice Polish Used in the Preparation of Foods and for Animal and Poultry Feeds.
Claims use since Oct. 1, 1952.

Ser. No. 640,991. Yonng Foods, Inc., Danville, Ill. Filed Jan. 19, 1953.

Always Fresh Old Plantation NUTS

The words "Always Fresh" and "Nuts" are hereby disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 205,889.
For Nuts—Namely, Shelled Almonds, Walnuts, Pecans, Filberts, Brazil Nuts, Spanish-Type Peanuts and Ordinary-Type Peanuts, Both Raw and Cooked and Salted; and Pistachios in the Shell Both Raw and Cooked and Salted.
Claims use since in or about November 1942 as shown; the words "Old Plantation" were first used in or about November 1916.

Ser. No. 643,440. Stein, Hall & Company, Inc., New York, N. Y. Filed Mar. 10, 1953.

MARIS

For Tapioca Flour.
Claims use since Jan. 1, 1947.

CLASS 47

WINES

Ser. No. 613,911. The Globe Distributing Company, Washington, D. C. Filed May 16, 1951.



The portraits shown in the drawing are fanciful and the stippling thereon is for shading purposes only.
For Wines.
Claims use since Apr. 10, 1951.

Ser. No. 628,783. Societe Vinicole de Pauillac (Societe Anonyme), Pauillac, France. Filed Apr. 26, 1952.

AGNEAU BLANC



Applicant claims ownership of French Registration No. 496,228, dated June 14, 1951, and United States Registration No. 349,604.
For Wines.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 583,176. Standard Food Products Corp., Brooklyn, N. Y. Filed Aug. 8, 1949.

Manoir de Saint-Vivant

For Brandy.
Claims use since July 13, 1949.

Ser. No. 615,124. Alfred Lamb & Son Limited, London, England. Filed June 13, 1951. (Sec. 2f.)

Lamb's

For Rum.
Claims use since the year 1849.

Ser. No. 615,158. College Inn Food Products Company, Chicago, Ill. Filed June 14, 1951.



The trade-mark comprises the color combination represented in a series of similar horizontal stripes, each stripe being yellow near its lower part and gradually shading upward into orange at its uppermost part, and a horizontal red stripe adjacent the border stripe at the bottom of the label.
For Gin, Anisette, and Brandy.
Claims use since Aug. 1, 1948.

Ser. No. 633,295. Benmore Distilleries Limited, Glasgow, Scotland. Filed July 31, 1952.

BENMORE

Applicant claims ownership of Registration No. 329,947.
For Scotch Whisky.
Claims use since 1937 in Great Britain; and since May 21, 1947, in commerce between Great Britain and the United States.

Ser. No. 634,650. Montmorency Distillery Ltd., Beaupre, Quebec, Canada. Filed Aug. 29, 1952.

DOMINION TEN

Applicant claims ownership of Registrations Nos. 321,918 and 398,949.
For Whiskey.
Claims use since Aug. 12, 1952.

Ser. No. 636,310. Wong Sewai, doing business as Wing Lee Wai, San Francisco, Calif., and Hong Kong, China. Filed Oct. 7, 1952.

永利威

The Chinese characters translated mean "Eternal Profit Fame." Applicant claims ownership of Registrations Nos. 323,909 and 335,024.
For Alcohol Beverage of the Chinese Type Known as Ng Ka Py.
Claims use since June 1, 1922.

Ser. No. 637,650. The Foster Trading Corporation, doing business as T. W. Samuels Distillery, Old Jordan Distillery, Our Own Distillery, and Country Distillers, Louisville, Ky. Filed Nov. 5, 1952.

Mr. Tubby's

For Whiskey.
Claims use since July 9, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 641,032. The Enamel Products Company, Cleveland, Ohio. Filed Jan. 21, 1953.

KOROK

For Chalk Boards.
Claims use since Sept. 17, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 621,917. Sulfur-8 Chemical Co., Inc., Brooklyn, N. Y. Filed Nov. 30, 1951.

sulfur-8

No claim is made to the word "Sulfur" apart from the mark shown on the drawing. Applicant claims ownership of Registration No. 364,452.
For Hair and Scalp Conditioner.
Claims use since Jan. 10, 1948.

Ser. No. 639,212. Frances Denney, Philadelphia, Pa. Filed Dec. 9, 1952.

HOPE

For Perfumes and Toilet Waters.
Claims use since Oct. 7, 1952.

Ser. No. 640,223. Mabel Parker, doing business under the trade name and style of House of Mabellee, Arlington, Va. Filed Dec. 31, 1952.

MABELLEE'S HAIR POMADE



The representation of a woman is fanciful. The words "Hair Pomade" are disclaimed apart from the mark as shown in the drawing.
For Hair Pomade.
Claims use since Oct. 7, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 606,304. La Maur, Inc., Minneapolis, Minn. Filed Nov. 13, 1950.

Palette

For Color Shampoo and Shampoo Tints.
Claims use since Feb. 3, 1950.

Ser. No. 613,391. Clarence M. Wynn, doing business as Wynoil Laboratories, Azusa, Calif. Filed May 1, 1951.



The term "Tested and Approved" is disclaimed apart from the mark as shown.
For Compound Useable as a Gasoline Dehydrating Additive and Carburetor Cleaner.
Claims use since Sept. 25, 1950.

Ser. No. 613,490. W. M. Barr & Company, Memphis, Tenn. Filed May 4, 1951.



Applicant hereby disclaims the word "Products" shown on the drawing of the trade-mark except insofar as this term is used with the mark as shown. The trade-mark as shown in the drawing filed herewith consists of the word "Barco" written in large, white, semi-script letters, together with the word "Products" beneath the word "Barco" in small, white, upper case print. These words are placed on an oval background, said background being lined to indicate the color red. To the upper right of said oval background and impinging on same, there appears an asterisk lined to indicate the color black. A lined green background appears in the drawing above the described oval background. Applicant states that said lined green background forms no part of the trade-mark, but represents a portion of the background of a larger area, and applicant hereby disclaims said lined green background as forming no part of the mark herein filed for registration.
For Complete Line of Cleaning Compounds for Cleaning All Types of Surfaces—Namely, Metal, Concrete, Wood, Fabric, Glass, and Crockery—for Use by Industrial and Maintenance Users.
Claims use since Jan. 21, 1947.

Ser. No. 618,228. Carr & Day & Martin Limited, New Southgate, London, England. Filed Aug. 30, 1951.

Belvoir

Applicant claims ownership of Great Britain Registration No. B504,712, dated July 23, 1929.
For Saddle Soap.

Ser. No. 618,720. Adco, Inc., Sedalia, Mo. Filed Sept. 13, 1951. (Sec. 2f.)

FOOD FOR FABRICS

No claim is made to the words "For Fabrics" except as shown.
For Dry-Cleaning Preparations for Professional Use.
Claims use since 1938.

Ser. No. 627,663. Arkansas Company Inc., Newark, N. J. Filed Apr. 7, 1952. (Sec. 2f.)

ARKANSAS

Applicant claims ownership of Registrations Nos. 309,241, 402,127, and others.
For Detergents, Soaps, and Scouring Agents—Namely, Sodium Salts of High Molecular Weight Fatty Acids, Sodium Alkyl Aryl Sulfonates, Sodium Salts of Highly Sulfated Oleic Acid Esters, Sodium and Potassium Phosphates, Amino-Fatty Condensates, Polyethylene Glycol Esters of Fatty Acids, Sodium Salts of Fatty Amide Sulfonates, Borax.
Claims use since 1912.

Ser. No. 629,018. Maurice Oliver Wendell Holmes, Vancouver, British Columbia, Canada. Filed May 1, 1952.



The representation of the head of an East Indian, which is shown on the drawing, is fanciful. Applicant claims ownership of Canadian Registration No. N. S. 109/28,092, dated June 13, 1947.

For Cleaning Fluid for Rugs, Carpets, Fabrics, and Coverings.

Ser. No. 634,545. The Procter & Gamble Company, Cincinnati, Ohio. Filed Aug. 27, 1952.

AMERICAN FAMILY

Applicant claims ownership of Registrations Nos. 13,264 and 76,449.

For Soluble Cleaner, Cleanser, and Detergent.

Claims use since Jan. 1, 1839.

Ser. No. 636,910. Stellad Products, Inc., Indianapolis, Ind. Filed Oct. 2, 1952.

POR-SO-KLEEN

The word "Kleen" is disclaimed apart from the mark as shown.

For Liquid Cleaner To Remove Rust and Gray Hard Water Deposits From Porcelain Bathtubs, Basins, Sinks, and Toilet Bowls.

Claims use since Feb. 3, 1949.

Ser. No. 637,528. The Pharma-Craft Corporation, New York, N. Y. Filed Sept. 19, 1952.

Ting

Applicant claims ownership of Registrations Nos. 522,621, 435,729, and 347,300.

For Germicidal Soap.

Claims use since Nov. 12, 1946.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 527,562. Vincent J. Jeep, Chicago, Ill. Filed July 5, 1947.

Jeep

For Food and Drink Catering Service.

Claims use since June 12, 1947.

Ser. No. 561,802. Chi Psi Fraternity, Ann Arbor, Mich. Filed July 21, 1948.



No exclusive claim is made to the representation of the cross appearing as a part of the mark. Applicant claims ownership of Registration No. 555,126.

For Services Rendered by the Member Chapters and Members for Male College Students—Namely, the Encouragement and Practice of Good Fellowship and the Furthering of Good Study Habits and Educational Ideals.

Claims use since May 1841.

Ser. No. 631,450. Tun Tavern Detachment, Marine Corps League, Philadelphia, Pa. Filed June 19, 1952.



For Providing Welfare and Social Services to Veterans in Hospitals, and to Marines, Former Marines and Their Families; Arranging Educational Scholarships for Sons, Daughters, Brothers, and Sisters of Marines and Navy Personnel Who Have Served With Marine Units and Who Are Deceased, and Furnishing Information to Veterans and Their Families Concerning Their Rights as Veterans.

Claims use since September 1943.

Ser. No. 636,592. The Grand Order of the Sword of Bunker Hill, Olney, Ill. Filed Oct. 14, 1952.



For Stimulating in Its Members an Interest in Charity, Good Fellowship, and Patriotism.

Claims use since June 17, 1943.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 599,450. Philadelphia Childrens Wear Show, Inc., Philadelphia, Pa. Filed June 20, 1950.



The figures of the children in the drawing are fanciful.

For Advertising the Goods of Others, Which Comprise Children's Wear, Through the Medium of Shows and Exhibitions Promoted Periodically in Different Cities of Different States.

Claims use since Jan. 1, 1945.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 535,601. Pate Oil Company, Milwaukee, Wis. Filed Sept. 24, 1947.



Applicant claims ownership of Registration No. 333,383.

For Automotive Vehicle Inspection, Lubrication, Repair, Cleaning, and Polishing.

Claims use since Apr. 1, 1933.

Ser. No. 547,960. American Gem Society, Los Angeles, Calif. Filed Jan. 26, 1948. COLLECTIVE MARK.



For Repairing Jewelry and Mounting Precious Stones and Gems in Settings.

Claims use since Jan. 1, 1942.

Ser. No. 589,423. Butterworth System, Incorporated, Bayonne, N. J. Filed Dec. 16, 1949. (Sec. 2f.)

THE BUTTERWORTH SYSTEM

No claim is made to exclusive right to use of the word "System" apart from the mark as shown.

For Tank Cleaning Service and Renting of Machines for Tank Cleaning.

Claims use since July 26, 1930.

CLASS 104

COMMUNICATION

Ser. No. 612,468. Mutual Broadcasting System, Inc., New York, N. Y. Filed Apr. 10, 1951.



No claim is made to exclusive right to use of a representation of a microphone apart from the mark as shown.

For Radio Broadcasting Services.

Claims use since at least as early as July 30, 1933.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 619,309. Pan American World Airways, Inc., New York, N. Y. Filed Sept. 27, 1951.

CLIPPER

Applicant claims ownership of Registration No. 510,452.

For Transportation of Passengers and Freight by Aircraft; and Motor Vehicle Transportation of Freight and Passengers to and From Airports.

Claims use since November 1931.

Ser. No. 638,624. Allied Van Lines, Inc., Broadview, Ill. Filed Nov. 26, 1952.



For Storage and Packing of Household Goods and for the Transportation of Household Goods by Motor Vehicle.

Claims use since Sept. 23, 1950.

CLASS 106

MATERIAL TREATMENT

Ser. No. 620,186. Atlantic Machine Tool Works, Inc., Newington, Conn. Filed Oct. 19, 1951.



The words "Products of Lasting Quality" are hereby disclaimed apart from the mark as shown.

For Manufacturing on a Custom Basis Gages, Jigs, Fixtures, Paper Roll Machines, Drilling Machines, Tube Rolling Machines, Machines for Sorting Nuts and Assembling Them to Bolts, Aircraft Parts, and Tool and Jet Engine Parts.

Claims use since Feb. 1, 1951.

Ser. No. 637,697. R. W. Bates Piece Dye Works, Inc., Garnerville, N. Y. Filed Nov. 6, 1952.

Royalized

For Treating Rayon and Acetate Suiting Fabrics of Others To Impart Spot Resistant, Wrinkle Resistant, and Water Repellent Finishes Thereto.

Claims use since August 1952.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 639,783. A. M. Saperstein, Chicago, Ill. Filed Dec. 19, 1952.

TROTTERS

Applicant claims ownership of Registrations Nos. 542,473 and 542,474.

For Entertainment Services in the Nature of Basketball Exhibitions.

Claims use since Mar. 3, 1951.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,775. Fishing Knives. Northern Star Plating and Finishing Co., Rockford, Ill.
Filed May 4, 1946, Serial No. 501,470. Published Mar. 10, 1953. Class 23.

444,776. Celery Bleaching Paper, Letterheads, Billheads, Correspondence Envelopes, Etc. The Lehon Company, Chicago, Ill.
Filed Apr. 15, 1947, Serial No. 520,738. Published Feb. 3, 1953. Class 37.

444,777. Celery Bleaching Paper, Letterheads, Billheads, Etc. The Lehon Company, Chicago, Ill.
Filed Apr. 15, 1947, Serial No. 520,739. Published Feb. 3, 1953. Class 37.

ACT OF 1946, PRINCIPAL REGISTER

575,751. Electrical Gaseous Discharge Sign Manufacturer's Supplies, Etc. Tube Light Engineering Company, New York, N. Y.
Original filed, act of 1905, Apr. 17, 1946; amended to application under act of 1946, Principal Register, Apr. 10, 1952, Serial No. 500,427. Published Mar. 31, 1953. Class 21.

575,752. Women's, Misses', and Children's Shoes Made of Leather, Fabric, or of Combinations of These Materials. Sommer & Kaufmann, San Francisco, Calif.
Original filed, act of 1905, Oct. 14, 1946; amended to application under the act of 1946, Principal Register, Apr. 30, 1948, Serial No. 510,864. Published Mar. 24, 1953. Class 39.

575,753. Wood Encased Lead Pencils, Crayons, Rubber Erasers, Hand Pencil Sharpeners, Etc. A. W. Faber-Castell Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc.
Original filed, act of 1905, Jan. 21, 1947; amended to application under act of 1946, Principal Register, Dec. 11, 1947, Serial No. 516,064. Published Mar. 3, 1953. Class 37.

575,754. Lead Pencils, Crayons, Ink Pencils, Rubber Erasers, Pen Holders, Pen Points, Mechanical Pencils, and Fountain Pens. A. W. Faber-Castell Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc.
Original filed, act of 1905, Apr. 3, 1947; amended to application under act of 1946, Principal Register, Dec. 11, 1947, Serial No. 520,098. Published Feb. 24, 1953. Class 37.

575,755. Paper Tablets; Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded Put Up in Boxes, Portfolios or Banded Packages; and Mailing and Correspondence Envelopes. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, July 22, 1949, Serial No. 526,015. Published Feb. 10, 1953. Class 37.

575,756. Paper Tablets. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Sept. 26, 1951, Serial No. 526,087. Published Feb. 24, 1953. Class 37.

575,757. Correspondence Paper and Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded Put Up in Boxes, Portfolios, or Banded Packages. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Oct. 29, 1948, Serial No. 526,105. Published Mar. 10, 1953. Class 37.

575,758. Poultry and Egg Products—Namely, Shell Eggs, Etc. Washington Co-Operative Farmers Association, Seattle, Wash.
Filed July 31, 1947, Serial No. 530,137. Published Mar. 17, 1953. Class 46.

575,759. Carbonated Cola Beverage Sold as a Maltless Soft Drink. Nebi Corporation, Columbus, Ga.
Filed Sept. 2, 1947, Serial No. 533,043. Published Mar. 3, 1953. Class 45.

575,760. Rock Wool for Insulation of Buildings and Other Structures. Coast Insulating Products, Los Angeles, Calif.
Filed Nov. 18, 1947, Serial No. 541,513. Published Feb. 17, 1953. Class 12.

575,761. Fruit Preserves and Jellies. West Virginia Packing Corporation, Huntington, W. Va.
Filed Jan. 8, 1948, Serial No. 546,531. Published Mar. 17, 1953. Class 46.

575,762. Pocket Knives. Imperial Knife Company, Inc., Providence, R. I.
Filed Jan. 10, 1948, Serial No. 546,704. Published Feb. 17, 1953. Class 23.

575,763. Correspondence Envelopes. Sheppard Envelope Company, Worcester, Mass.
Filed Feb. 10, 1948, Serial No. 549,281. Published Feb. 10, 1953. Class 37.

575,764. Dressed Poultry Containing a Prepared Dressing. Witt's Market House, Inc., Minneapolis, Minn., doing business as Witt's Med-O-Sweet Farm, Osseo, Minn.
Filed Dec. 26, 1947, Serial No. 552,373. Published Mar. 24, 1953. Class 46.

575,765. Shoes of Leather, Fabric, and Leather and Fabric for Men, Women, and Children. William Hahn & Company, Washington, D. C.
Filed Dec. 29, 1947, Serial No. 552,376. Published Mar. 24, 1953. Class 39.

575,766. Filing Cabinets Scientifically Constructed To Protect the Contents Thereof Against the Effects of Excessive Temperature. Remington Rand Inc., New York, N. Y.
Filed June 15, 1948, Serial No. 559,253. Published Mar. 17, 1953. Class 32.

575,767. Shoes. Shoe Corporation of America, Columbus, Ohio.
Filed June 15, 1948, Serial No. 559,253. Published Mar. 24, 1953. Class 39.

575,768. Earth Working Tools and Parts Thereof—Namely, Plows, One Way Disc Plows, Disk Harrows, Bedder Discs, Border Discs. Goble Disc Works, Fowler, Calif., assignor to The Massey-Harris Company, Racine, Wis.
Filed July 10, 1948, Serial No. 563,536. Published Mar. 24, 1953. Class 23.

575,769. Leather Shoes and Insoles Therefor for Men. Adler Sons Shoe Corp., New York, N. Y.
Filed Jan. 22, 1949, Serial No. 572,542. Published Mar. 24, 1953. Class 39.

575,770. Brandy. Bisquit Dubouché & Compagnie Laporte Bisquit & Compagnie Successeurs Societe a Responsabilite Limitee, Jarnac, France.
Filed Feb. 10, 1949, Serial No. 573,611. Published Mar. 3, 1953. Class 49.

575,771. Wheat Flour, Corn Meal for Human Consumption, Poultry Feed in the Nature of Egg Mash and Egg Pellets, Hog Feed Comprised Principally of Ground Corn, Meat Scraps, and Meal. Robert M. Peek, doing business as Superior Flour Co., Little Rock, Ark., assignor by Decree of Distribution to Robert M. Peek, Jr.
Filed Mar. 8, 1949, Serial No. 575,686. Published Mar. 24, 1953. Class 46.

575,772. Handkerchiefs. Carolina Manufacturing Company, Greenville, S. C.
Filed Apr. 29, 1949, Serial No. 577,939. Published Mar. 10, 1953. Class 39.

575,773. Men's and Boys' Leather Shoes, Boots, and Oxfords. Red Wing Shoe Company, Inc., Red Wing, Minn., and Dallas, Tex.
Filed May 14, 1949, Serial No. 578,898. Published Mar. 24, 1953. Class 39.

575,774. Mechanical Feed Mixer for Mixing Feeds for Poultry, Cattle, Sheep, Hogs, and the Like. Moorman Manufacturing Company, Quincy, Ill.
Filed June 7, 1949, Serial No. 580,085. Published Mar. 31, 1953. Class 23.

575,775. Boned Turkey, Turkey and Broth, Egg Noodles and Turkey, Minced Turkey, and Smoked Turkey Liver Spread Packed in Glass and Tin. Washington Creamery Company, Seattle, Wash., assignor to Rancher's Pride Foods, Portland, Oreg., a corporation of Oregon.
Filed June 13, 1949, Serial No. 580,386. Published July 11, 1950. Class 46.

575,776. Parts for Airplane Engines—Namely, Engine Plugs, Intake and Exhaustvalve Locks, Etc. The Apex Tool Company, Incorporated, Bridgeport, Conn.
Filed July 8, 1949, Serial No. 581,638. Published Mar. 24, 1953. Class 23.

575,777. Analyzers for the Quantitative Determination of Constituents in Gas Mixtures and Liquid Mixtures. James L. Waters, Inc., Framingham, Mass.
Filed Aug. 23, 1949, Serial No. 583,899. Published Feb. 3, 1953. Class 26.

575,778. Ladies' and Misses' Shoes. Bally, Inc., New York, N. Y.
Filed Sept. 16, 1949, Serial No. 584,889. Published Mar. 24, 1953. Class 39.

575,779. Chairs, Easy Chairs, Sofas and Beds, Etc. Madrass-Fabriken Dux Aktiebolag, Malmo, Sweden.
Filed Oct. 3, 1949, Serial No. 585,713. Published Mar. 31, 1953. Class 32.

575,780. Plastic Cover Lens for Welding Helmets. Flood Safety Products Company, Chicago, Ill.
Filed Oct. 12, 1949, Serial No. 586,156. Published Feb. 3, 1953. Class 26.

575,781. Change-Speed Gears of the Derailleur Type or the Hub Type, Etc. Lucien Juy, doing business under the name Etablissements "Le Simplex" L. Juy, Dijon, Cote-d'Or, France.
Filed Oct. 28, 1949, Serial No. 586,974. Published Mar. 10, 1953. Class 23.

575,782. Dressed Domestic Guinea and Dressed China Geese. Jacques Makowsky, Pomfret Center, Conn.
Filed Nov. 7, 1949, Serial No. 587,441. Published Mar. 17, 1953. Class 46.

575,783. Buttons Except Precious Metal Made of Both Metallic and Non-Metallic Material. Schalet-Pollack Corporation, New York, N. Y.
Filed Nov. 15, 1949, Serial No. 587,825. Published Jan. 20, 1953. Class 40.

575,784. Dresses, Jackets, Skirts, Coats, Suits, Slacks, for Women, Misses, and Junior Girls. Kay Murray Sportswear, Inc., Boston, Mass.
Filed Dec. 16, 1949, Serial No. 589,460. Published Aug. 19, 1952. Class 39.

575,785. Champagne. Societe a Responsabilite Limitee Kunkelmann & Cie, Reims, Marne, France.
Filed Dec. 16, 1949, Serial No. 589,476. Published Mar. 3, 1953. Class 47.

575,786. Non-Electric Brakes and Brake Assemblies for Automotive and Aviation Vehicles, and Booster Units Therefor; Automobile Radiators, Disc Wheels for Motor Driven Vehicles, Automobile Springs, Hitches on Motor Vehicles for Attaching Trailers Thereto, and Operator's Seats for Farm Vehicles. Borg-Warner Corporation, Chicago, Ill.
Filed Dec. 19, 1949, Serial No. 589,557. Published Mar. 31, 1953. Class 19.

575,787. Cotton Piece Goods. Ely & Walker Dry Goods Company, St. Louis, Mo.
Filed Dec. 19, 1949, Serial No. 589,571. Published Mar. 31, 1953. Class 42.

575,788. Continuous Film Reels, Motion Picture Projectors for Use in Television Stations, Dollies for Television Cameras, Tripods for Television Cameras. Television Associates, Inc., Michigan City, Ind.
Filed Dec. 30, 1949, Serial No. 590,190. Published Feb. 3, 1953. Class 26.

575,789. Magnetic Pencil Holders and Bulletin Board Assemblies. Magnetic Merchandising, Inc., New York, N. Y., now by change of name Maggie Magnetic, Inc.
Filed Jan. 14, 1950, Serial No. 590,902. Published Feb. 24, 1953. Class 37.

575,790. Small Paper Rolls Used in Mailing and Addressing Machines. Paper Manufacturers Co., Philadelphia, Pa.
Filed Jan. 16, 1950, Serial No. 590,943. Published Feb. 10, 1953. Class 37.

575,791. Wines. Francis A. Bonanno, doing business as Francis A. Bonanno Co., Dayton, Ohio.
Filed Jan. 19, 1950, Serial No. 591,069. Published Mar. 24, 1953. Class 47.

575,792. Automobiles, Motor Boats, and Radiators, and Frames Therefor. Bernard-Moteurs, S. A., Paris, France.
Filed Jan. 20, 1950, Serial No. 591,143. Published Mar. 31, 1953. Class 19.

575,793. Chopped Horse Meat for Animal Consumption. Eastern Packing Company, Inc., Linden, N. J.
Filed Jan. 23, 1950, Serial No. 591,286. Published Mar. 24, 1953. Class 46.

575,794. Dental Products — Namely, Inlays, Bridges, Porcelain Jackets, Crowns, Dentures, and Denture Bases. R. Sutter Wolfram, doing business as Dental Applied Research Laboratory, Queens Village, N. Y.
Filed Feb. 13, 1950, Serial No. 592,402. Published Mar. 24, 1953. Class 44.

575,795. Automotive Service Products—Namely, Steering Post Shifting Silencers, Etc. Champ-Items, Inc., St. Louis, Mo.
Filed Feb. 15, 1950, Serial No. 592,475. Published Mar. 31, 1953. Class 19.

575,796. Electrically Operated, Switch Actuated, Motor Driven Circuit Timers for Controlling the Time Length of the Operating Phase or Phases of Machine Tools and Other Equipment. Eagle Signal Corporation, Moline, Ill.
Filed Feb. 16, 1950, Serial No. 592,557. Published Feb. 3, 1953. Class 26.

575,797. Safety Helmets and Dust Protective Hoods and Masks. Willson Products, Inc., Reading, Pa.
Filed Mar. 2, 1950, Serial No. 593,311. Published Mar. 10, 1953. Class 39.

575,798. Toilet Paper, Paper Towels, Paper Napkins, Paper Doilies, Paper Tablecloths, and Tissue Paper. Fort Howard Paper Company, Green Bay, Wis.
Filed Mar. 3, 1950, Serial No. 593,341. Published Feb. 24, 1953. Class 37.

575,799. Album Holders for Records and Mechanically Grooved Records. Robert E. Smith, New York, N. Y., assignor to Kagran Corporation, New York, N. Y., a corporation of New York.
Filed Mar. 10, 1950, Serial No. 593,750. Published Mar. 31, 1953. Class 36.

575,800. Shoes for Men, Women, and Children. Abe L. Plotkin, doing business as Youth-O-Pedic Shoe Center, Scranton, Pa.
Filed Mar. 14, 1950, Serial No. 593,934. Published Mar. 24, 1953. Class 39.

575,801. Coin-Operated Time Switches. International Register Company, Chicago, Ill.
Filed Mar. 27, 1950, Serial No. 594,717. Published Feb. 3, 1953. Class 26.

575,802. Machines for Testing the Strength of Materials; Instruments Responsive to, and Instruments for Measuring, Etc. The Baldwin Locomotive Works, Eddystone, Pa., now by change of name Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania.
Filed Apr. 1, 1950, Serial No. 595,032. Published Feb. 3, 1953. Class 26.

575,803. Wines. California Growers Wineries, Cutler, Calif.
Filed May 1, 1950, Serial No. 596,651. Published Mar. 24, 1953. Class 47.

575,804. Shoes With Sponge Rubber Soles, for Men, Women, and Children. Wellco Shoe Corporation, Waynesville, N. C.
Filed May 9, 1950, Serial No. 597,185. Published Mar. 24, 1953. Class 39.

575,805. Measuring Tapes. Keuffel & Esser Company, Hoboken, N. J.
Filed June 3, 1950, Serial No. 598,534. Published Feb. 3, 1953. Class 26.

575,806. Photographic Apparatus—Namely, Photographic Cameras and Parts Thereof Including Lenses. Peerless Camera Stores, Inc., New York, N. Y., assignor to Kling Photo Supply Corporation, New York, N. Y., a corporation of New York.
Filed July 5, 1950, Serial No. 600,226. Published Mar. 27, 1951. Class 26.

575,807. Belts, Suspenders, Mufflers, Handkerchiefs, and Garters. M. A. Weiner Company, Sioux City, Iowa.
Filed July 10, 1950, Serial No. 600,460. Published Mar. 10, 1953. Class 39.

575,808. Blank Savings Stamp Books. Bonus Savings Stamp Co., Kansas City, Mo.
Filed July 11, 1950, Serial No. 600,465. Published Jan. 27, 1953. Class 37.

575,809. Electrical Apparatus—Namely, Floodlight Reflectors, Lighting Kits (Reflector, Clamps, Cord, Plugs), Light Bars (Lamp Holders for Illuminating Photographic Subjects) and Clamp Reflectors. Sears, Roebuck and Co., Chicago, Ill.
Filed July 20, 1950, Serial No. 600,988. Published Mar. 24, 1953. Class 21.

575,810. Photographic Lenses, Photographic Optical Filters, Photographic Enlargers, Photographic Range Finders, Photographic Filter and Lens Mounts, Lens Sunshades. Omag Optik und Mechanik A. G., Neuallschwil-Basel, Switzerland.
Filed July 26, 1950, Serial No. 601,272. Published Feb. 3, 1953. Class 26.

575,811. Accounting Boards and Record Sheets and Forms. Charles R. Hadley Company, Los Angeles, Calif.
Filed Aug. 4, 1950, Serial No. 601,726. Published Mar. 3, 1953. Class 37.

575,812. Roofing Granules Consisting of Ash Which Are Used on Roofing Materials Such as Shingles, Sheeting, and Other Surfaces. H. B. Reed & Company, Hammond, Ind.
Filed Aug. 7, 1950, Serial No. 601,849. Published Mar. 17, 1953. Class 12.

575,813. Scythes. Hans Zelinka, doing business under the firm and style of Vindobona Importing Co., New York, N. Y.
Filed Aug. 8, 1950, Serial No. 601,970. Published Dec. 30, 1952. Class 23.

575,814. Scotch Whiskey. Churtons Limited, Liverpool, England.
Filed Aug. 11, 1950, Serial No. 602,083. Published Mar. 3, 1953. Class 49.

575,815. Cotton Gins, Cotton Feeders, Cotton Elevators, Etc. The Murray Company of Texas, Inc., Dallas, Tex.
Filed Sept. 1, 1950, Serial No. 603,075. Published Feb. 3, 1953. Class 23.

575,816. Men's Topcoats and Overcoats. Isaac Cohen & Son Clothes Co., Inc., New York, N. Y.
Filed Oct. 4, 1950, Serial No. 604,421. Published Mar. 10, 1953. Class 39.

575,817. Electrical Appliances—Namely, Multiple-Purpose Cooking Appliances for Simmering Liquids, Baking Biscuits, Warming Buns, Corn Popping, and Deep Fat Frying. Knapp-Monarch Company, St. Louis, Mo.
Filed Oct. 7, 1950, Serial No. 604,584. Published Mar. 17, 1953. Class 21.

575,818. Ladies' Shoes. Metropolitan Shoemakers, Inc., Chicago, Ill.
Filed Oct. 13, 1950, Serial No. 604,856. Published Mar. 24, 1953. Class 39.

575,819. Living Room, Kitchen, Dining Room, and Bedroom Furniture—Namely, Davenports, Etc. Aldens, Inc., Chicago, Ill.
Filed Nov. 2, 1950, Serial No. 605,781. Published Mar. 31, 1953. Class 32.

575,820. Piece Goods of Cotton, Silk, Wool, Synthetic Fibres and Combinations Thereof. Palm Beach Fabrics, Inc., Boynton Beach, Fla.
Filed Nov. 9, 1950, Serial No. 606,170. Published Mar. 31, 1953. Class 42.

575,821. Scotch Whiskey. James & George Stodart, Limited, Dumbarton, Scotland.
Filed Nov. 10, 1950, Serial No. 606,243. Published Mar. 3, 1953. Class 49.

575,822. Accordions. Buegeleisen & Jacobson, Inc., New York, N. Y.
Filed Nov. 13, 1950, Serial No. 606,262. Published Mar. 31, 1953. Class 36.

575,823. Men's Boots and Shoes of Rubber or Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed Dec. 15, 1950, Serial No. 607,729. Published Mar. 24, 1953. Class 39.

575,824. Power Operated Printing Presses and Parts Thereof. The Goss Printing Press Company, Chicago, Ill.
Filed Dec. 16, 1950, Serial No. 607,756. Published Feb. 17, 1953. Class 23.

575,825. Dental Operative Abrading Unit Which Consists of a Cabinet in Which Is Housed Mechanism, Etc. The S. S. White Dental Manufacturing Company, Philadelphia, Pa.
Filed Jan. 12, 1951, Serial No. 608,729. Published Mar. 24, 1953. Class 44.

575,826. Ice Cream, Sherbet, and Ice Cream Cake Rolls. The Borden Company, doing business under the assumed trade-name of Georgia-Carolina Dairies, New York, N. Y.
Filed Jan. 16, 1951, Serial No. 608,813. Published Mar. 17, 1953. Class 46.

575,827. Skin Lotion and Face Cream. Veland Products, Inc., Cleveland, Ohio.
Filed Jan. 16, 1951, Serial No. 608,842. Published Mar. 10, 1953. Class 51.

575,828. Shoes and Slippers for Men, Women, and Children. B. & B. Shoe Company, Chicago, Ill.
Filed Jan. 29, 1951, Serial No. 609,355. Published Mar. 24, 1953. Class 39.

575,829. Partially Printed Forms for Use by Automobile Repair and Maintenance Service Stations. The Laudar Company, Thomson, Ga.
Filed Feb. 15, 1951, Serial No. 610,131. Published Feb. 24, 1953. Class 37.

575,830. Rod-Shaped Electric Heating Resistors of Refractory Silicon-Carbide Material. Elektrogerätebau Ceslwid G. m. b. h., Erlangen, Germany.
Filed Feb. 16, 1951, Serial No. 610,169. Published Mar. 31, 1953. Class 21.

575,831. Mechanically Grooved Phonograph Records. Handel Society, Inc., New York, N. Y.
Filed Feb. 21, 1951, Serial No. 610,364. Published Mar. 31, 1953. Class 36.

575,832. Edible Soya Bean Oils. E. F. Drew & Co., Inc., New York, N. Y.
Filed Feb. 28, 1951, Serial No. 610,616. Published Mar. 24, 1953. Class 46.

575,833. Dielectric Material in Solid Sheet Form Used for Electrical Insulating Purposes. Aircraft-Marine Products Inc., Harrisburg, Pa.
Filed Mar. 3, 1951, Serial No. 610,777. Published Mar. 31, 1953. Class 21.

575,834. Snelled and Un-Snelled Fishing Hooks Characterized by a Plurality of Barbs at Least One of Which Is Located on the Shank. Dave Cook Sporting Goods Co., Denver, Colo.
Filed Mar. 5, 1951, Serial No. 610,834. Published Mar. 31, 1953. Class 22.

575,835. Partially Printed Forms for Use by Automobile Repair and Maintenance Service Stations. The Laudar Company, Thomson, Ga.
Filed Mar. 5, 1951, Serial No. 610,853. Published Feb. 24, 1953. Class 37.

575,836. Hunting Clothing—Namely, Jackets, Vests, Coats, Pants, and Breeches. The Hettrick Manufacturing Company, Toledo, Ohio.
Filed Mar. 7, 1951, Serial No. 610,968. Published Mar. 10, 1953. Class 39.

575,837. Fast Hardening Color Finish, Cementitious in Nature, for Concrete Surfaces. Conrad Sovig Co., San Francisco, Calif.
Filed Mar. 7, 1951, Serial No. 610,996. Published Feb. 17, 1953. Class 12.

575,838. Shoes for Women. Westminster Shoe Co. Inc., Westminster, Md.
Filed Mar. 8, 1951, Serial No. 611,052. Published Mar. 24, 1953. Class 39.

575,839. Flavoring Extracts for Food Purposes, Vegetable Oil for Food Purposes, Meat and Vegetable Sauces, Spices, Condensed Milk, Butter, Cheese, Purees of Tomatoes and Peas, Yogurt, Wheat Flour, Canned Fruits, Canned Vegetables, Fresh Oranges and Lemons, Canned Meat and Sausages. Frederico Platard de Quenin Oller, Madrid, Spain.
Filed Mar. 10, 1951, Serial No. 611,144. Published Mar. 17, 1953. Class 46.

575,840. Condiment Sauces in the Nature of Ketchup and Chili for Use on Meats, Fish, Etc. Murray Hill Restaurant, Inc., New York, N. Y.
Filed Mar. 12, 1951, Serial No. 611,191. Published Mar. 24, 1953. Class 46.

575,841. Non-Alcoholic, Maltless Beverage, Sold as a Soft Drink, and Extract for Making the Same. Grandpa Brands Company, Cincinnati, Ohio.
Filed Mar. 13, 1951, Serial No. 611,224. Published Mar. 3, 1953. Class 45.

575,842. Electric Dry Batteries. Burgess Battery Company, Freeport, Ill.
Filed Mar. 23, 1951, Serial No. 611,682. Published Mar. 31, 1953. Class 21.

575,843. Pharmaceutical Preparation for the Treatment of Ailments of the Rheumatoid Type Including Rheumatism, Etc. Pan Pharmacals, Inc., New York, N. Y.
Filed Mar. 30, 1951, Serial No. 612,030. Published Feb. 17, 1953. Class 18.

575,844. Potato Chips; Popped Corn; Cookies; Small Cakes, Etc. Gordon Foods, Inc., Atlanta, Ga.
Filed Mar. 31, 1951, Serial No. 612,065. Published Mar. 17, 1953. Class 46.

575,845. Knitted, Netted, and Textile Fabrics of Cotton, Silk, and Synthetic Fibres. J. A. Riley & Co. Inc., New York, N. Y.
Filed Apr. 2, 1951, Serial No. 612,136. Published Mar. 31, 1953. Class 42.

575,846. Women's Hosiery, Fabric Gloves, Scarves, and Women's and Children's Suits and Dresses. New York Knitting Mills, Inc., New York, N. Y.
Filed Apr. 5, 1951, Serial No. 612,269. Published Mar. 17, 1953. Class 39.

575,847. Saws for Cutting Stone or Masonry Such as Concrete. Martin Fireproofing Corporation, Buffalo, N. Y.
Filed Apr. 10, 1951, Serial No. 612,458. Published Mar. 10, 1953. Class 23.

575,848. Bakery Equipment—Namely, Cake Machines, Dough Dividers, Etc. The J. H. Day Company, Incorporated, Cincinnati, Ohio.
Filed Apr. 25, 1951, Serial No. 613,123. Published Feb. 24, 1953. Class 23.

575,849. Agricultural Equipment—Namely, Beet Harvesters; Green Crop Harvesters, Etc. Blackwelder Manufacturing Co., Rio Vista, Calif.
Filed May 7, 1951, Serial No. 613,582. Published Mar. 10, 1953. Class 23.

575,850. All Purpose Sauce, Having as Its Principal Ingredient Tomatoes With Vinegar, Salt, Sugar, Spices, Pepper, and Flavoring Added. Lawrence B. Haberle, doing business under the name of Southwest Company, Jacksonville, Tex.
Filed May 9, 1951, Serial No. 613,668. Published Mar. 24, 1953. Class 46.

575,851. Long Distance Transmitting and Recording Apparatus, Etc. Muirhead & Co. Limited, Beckenham, Kent, England.
Filed May 18, 1951, Serial No. 614,055. Published Mar. 24, 1953. Class 21.

575,852. Turf Cultivating Wheeled Implement Having a Number of Rotatable Discs Which Carry Projecting Spoons Adapted To Penetrate and Loosen the Soil About the Roots of Grass Turf. West Point Lawn Products, West Point, Pa., assignor to West Point Products Corporation, West Point, Pa., a corporation of Delaware.
Filed May 23, 1951, Serial No. 614,276. Published Feb. 24, 1953. Class 23.

575,853. Electric Insulation Material in the Form of Flexible Tubing, Made of Braided Glass Yarn Impregnated With Silicone Varnish. The William Brand and Co., Inc., Willimantic, Conn.
Filed May 23, 1951, Serial No. 614,278. Published Mar. 31, 1953. Class 21.

575,854. Photographic Chemicals—Namely, Photographic Developers. General Aniline & Film Corporation, New York, N. Y.
Filed May 24, 1951, Serial No. 614,296. Published Mar. 4, 1952. Class 6.

575,855. Canned Sardines. Alexander Packing Corporation, New York, N. Y.
Filed June 12, 1951, Serial No. 615,039. Published Mar. 17, 1953. Class 46.

575,856. Combination Clearing and Cultivating Farm Implement—Namely, a Power-Drawn Weed Chopper Having a Combined Hacking and Slicing Action as It Falls and Passes Over Weeds. Martin Eller, Deerfield Beach, Fla.
Filed June 19, 1951, Serial No. 615,374. Published Feb. 24, 1953. Class 23.

575,857. Grooved Phonograph Records. H. & A. Selmer, Inc., Elkhart, Ind.
Filed June 28, 1951, Serial No. 615,859. Published Mar. 31, 1953. Class 36.

575,858. Electrically-Driven Vibrators; Vibrating Units Consisting of Electric Motors, Etc. Aktiebolaget Vibro-Verken, Stockholm, Sweden.
Filed July 3, 1951, Serial No. 616,005. Published Mar. 24, 1953. Class 21.

575,859. Pneumatic and Internal Combustion Engine-Driven Vibrators, Etc. Aktiebolaget Vibro-Verken, Stockholm, Sweden.
Filed July 3, 1951, Serial No. 616,006. Published Mar. 10, 1953. Class 23.

575,860. Breakfast Food Comprising Grated or Mashed Fruit, Lemon Juice, and Sweetened Condensed Milk. Ruolf A. Isenberg, Palo Alto, Calif.
Filed July 3, 1951, Serial No. 616,033. Published Mar. 17, 1953. Class 46.

575,861. Women's and Misses' Shoes. Prima, Incorporated, doing business as Prima Footwear Company, Columbus, Ohio.
Filed July 9, 1951, Serial No. 616,243. Published Mar. 24, 1953. Class 39.

575,862. Overseas Caps, Ties, Uniform Shirts, Uniform Trousers, Uniform Blouses, Trench Coats, Baseball Caps, Basket Ball Uniforms, Bowling Shirts, T-Shirts, Baseball Uniforms, Sport Jackets, and Sweat Shirts. Veterans of Foreign Wars of the United States, Kansas City, Mo.
Filed July 9, 1951, Serial No. 616,260. Published Feb. 24, 1953. Class 39.

575,863. Vitamin Capsules To Be Used as a Dietary Supplement. National Vitamin Corporation, Washington, D. C.
Filed July 13, 1951, Serial No. 616,439. Published Feb. 17, 1953. Class 18.

575,864. Children's Knit Outerwear—Namely, Polo Shirts, Two Piece Suits Consisting of Polo Shirt and Pants, Eton Suits, Creepers, Cardigan Sweaters, and Cardigan Jackets, and Children's Beach-Wear—Namely, Swim Suits, Trunks, and Sun Suits. Glenayle Knitting Mills, Inc., Newark, N. J.
Filed Aug. 2, 1951, Serial No. 617,247. Published Feb. 24, 1953. Class 39.

575,865. Milk Products—Namely, Evaporated and Sweetened Condensed Milk. Carnation Company, Los Angeles, Calif.
Filed Aug. 7, 1951, Serial No. 617,390. Published Mar. 17, 1953. Class 46.

575,866. Canned and Frozen Vegetables, and Canned Fruits. James Fenwick Company, Portland, Oreg.
Filed Aug. 11, 1951, Serial No. 617,583. Published Mar. 24, 1953. Class 46.

575,867. Men's, Women's, and Children's Golf Shoes. Stanley E. Bishop, doing business as The Ted Bishop Company, Boston, Mass.
Filed Aug. 20, 1951, Serial No. 617,858. Published Mar. 24, 1953. Class 39.

575,868. Formula Feed in Pellet Form for Growing Calves and Young Stock, Etc. Dorothy A. Long, doing business as Dawnwood Farms, Amenia, N. Y.
Original filed, act of 1946, Supplemental Register, Aug. 28, 1951; amended to application, Principal Register, Apr. 3, 1952, Serial No. 618,172. Published Mar. 17, 1953. Class 46.

575,869. Men's and Boys' Suits, Topcoats, Overcoats, Slacks, and Pants. Atlantic Clothing Co., Inc., New York, N. Y.
Filed Aug. 31, 1951, Serial No. 618,281. Published Feb. 24, 1953. Class 39.

575,870. Ladies' and Misses' Shoes. Baily, Inc., New York, N. Y.
Filed Aug. 31, 1951, Serial No. 618,283. Published Mar. 24, 1953. Class 39.

575,871. Carbonated Nonalcoholic Maltless Beverages Sold as Soft Drinks and for Syrups and Extracts Used in Making the Same. Cott Beverage Corporation, New Haven, Conn.
Filed Aug. 31, 1951, Serial No. 618,290. Published Mar. 10, 1953. Class 45.

575,872. Cotton Table Cloths and Napkins and Cotton Piece Goods for Making Into Table Cloths and Napkins. William Snower, Kansas City, Mo., sole trustee for Kansas City White Goods Manufacturing Company.
Filed Sept. 18, 1951, Serial No. 618,943. Published Mar. 31, 1953. Class 42.

575,873. Handmade Dresses and Slips, Coats and Bonnets, Snowsuits, Etc. Martin's, Brooklyn, N. Y.
Filed Sept. 19, 1951, Serial No. 618,973. Published Mar. 17, 1953. Class 39.

575,874. Railroad Car Moving Tool—Namely, a Pinch Bar With a Forward Pushing Toggle Which Enables the Moving of a Railroad Car, and Parts of Such. Advance Car Mover Company, Inc., Appleton, Wis.
Filed Sept. 27, 1951, Serial No. 619,278. Published Mar. 10, 1953. Class 23.

575,875. Men's, Women's, and Children's Boots, Shoes, and Slippers, and Belts. Brevitt Shoes Limited, Leicester, England.
Filed Sept. 27, 1951, Serial No. 619,489. Published Mar. 24, 1953. Class 39.

575,876. Sound Film Editing Data (Namely, an Instrument for Indicating the Number of Frames of Particular Film in a Particular Number of Linear Feet of That Film and the Length of Time of Movement of Such Film). Henry Roger, doing business as Rolab, Sandy Hook, Conn.
Filed Oct. 3, 1951, Serial No. 619,550. Published Feb. 3, 1953. Class 26.

575,877. Garden Cultivator and the Following Attachments Therefor: Sickle Mower Attachment, Bulldozer Blade Attachment, Plow Attachment, Lawn Mower Attachment, and Dolly-Type Load Carrier Attachment. Merry Manufacturing Co., Bothell, Wash.
Filed Oct. 9, 1951, Serial No. 619,764. Published Mar. 10, 1953. Class 23.

575,878. Hole Saws. American Saw and Manufacturing Company, Springfield, Mass.
Filed Oct. 10, 1951, Serial No. 619,796. Published Jan. 20, 1953. Class 23.

575,879. Contact Wheel Over Which a Motor Driven Abrasive Belt Runs, Etc. United Buff Products Corporation, Passaic, N. J.
Filed Oct. 12, 1951, Serial No. 619,957. Published July 29, 1952. Class 23.

575,880. Beauty Column. Tribune Company, sometimes identified merely as Chicago Tribune, Chicago, Ill.
Filed Oct. 13, 1951, Serial No. 619,981. Published Mar. 10, 1953. Class 38.

575,881. Fresh and Frozen Dressed Poultry, Frozen Fish, Oleomargarine, Fresh Eggs, and Fresh Oysters. John J. Balderacchi, doing business as G. P. Food Distributors, Greensboro, N. C.
Filed Oct. 15, 1951, Serial No. 619,983. Published Mar. 17, 1953. Class 46.

575,882. Ladies' and Misses' Coats, Suits, Jackets, and Outer Skirts. Philip Shlansky & Sons, Inc., New York, N. Y.
Filed Oct. 19, 1951, Serial No. 620,234. Published Mar. 24, 1953. Class 39.

575,883. Display and Exhibit Lighting Units—Namely, Miniature Lights, Candelabra, Single and Multiple Lights That Flash in Rotation, at Random, in Synchronism, or Combinations of Flashing and Non-Flashing Lights. Noel Manufacturing Company, Inc., New York, N. Y.
Filed Oct. 23, 1951, Serial No. 620,359. Published Mar. 31, 1953. Class 21.

575,884. Ladies', and Children's Shoes. Emanuel M. Meyer, New York, N. Y.
Filed Oct. 26, 1951, Serial No. 620,520. Published Mar. 24, 1953. Class 39.

575,885. Paint Brushes. Baker Brush Co., Inc., New York, N. Y.
Filed Oct. 31, 1951, Serial No. 620,716. Published Mar. 24, 1953. Class 29.

575,886. Closures for Openings in Buildings—Namely, Windows and Doors Made of Wood, Metal, and Both, and Having Therein Panels of Glass and Screen Material. Borg-Warner Corporation, Chicago, Ill.
Filed Nov. 2, 1951, Serial No. 620,790. Published Feb. 17, 1953. Class 12.

575,887. Tubular Sheathed Embedded-Resistor Electric Heating Units and Parts Thereof. Edwin L. Wiegand Company, Pittsburgh, Pa.
Filed Nov. 3, 1951, Serial No. 620,866. Published Mar. 31, 1953. Class 21.

575,888. Stabilizer Including Vegetable Gum and Pectin Suitable for Mixing With Fruits To Be Frozen. Crest Foods Co., Ashton, Ill.
Filed Nov. 5, 1951, Serial No. 620,874. Published Mar 17, 1953. Class 46.

575,889. Stabilizer, Including a Methylcellulose, Suitable for Use in Frozen Desserts of the Type Including Ice Cream, Ice Milk, Sherbets and Ices, and in Dairy Products. Crest Foods Co., Ashton, Ill.
Filed Nov. 5, 1951, Serial No. 620,875. Published Mar. 17, 1953. Class 46.

575,890. Beer. Maier Brewing Company, Los Angeles, Calif.
Filed Nov. 6, 1951, Serial No. 620,921. Published Mar. 3, 1953. Class 48.

575,891. Occasional Tables, End Tables, Cocktail Tables, Extension Tables, Dining Room Tables, Dinette Tables, Dressing Tables, Night Tables, and Telephone Tables. Muller-Barringer, New York, N. Y.
Filed Nov. 8, 1951, Serial No. 621,023. Published Mar. 31, 1953. Class 32.

575,892. Long-Handled Cloth-Faced Applicator for Self-Polishing Waxes. S. C. Johnson & Son, Inc., Racine, Wis.
Filed Nov. 21, 1951, Serial No. 621,519. Published Mar. 24, 1953. Class 29.

575,893. Calcined Gypsum Plaster. Certain-Teed Products Corporation, Ardmore, Pa.
Filed Nov. 23, 1951, Serial No. 621,544. Published Feb. 17, 1953. Class 12.

575,894. Textile Products Made Wholly of Ramie, or of Ramie Combined with Cotton, Wool, or Rayon—Namely, Draperies, Towels, Table Cloths, Napkins, Luncheon Sets Composed of Table Cloths and Napkins, Bed Sheets, and Pillowcases. Jensen-McLean Co., Inc., Seattle, Wash.
Filed Nov. 23, 1951, Serial No. 621,561. Published Mar. 31, 1953. Class 42.

575,895. Women's and Girls' Boots, Skirts, Belts, Dresses, Shirts, Slippers, Moccasins, Robes, Caps, Socks, Sweaters, and Nightgowns. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California.
Filed Nov. 26, 1951, Serial No. 621,646. Published Mar. 17, 1953. Class 39.

575,896. Hand Lotion and Colognes. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California.
Filed Nov. 26, 1951, Serial No. 621,647. Published Feb. 17, 1953. Class 51.

575,897. Penicillin Preparation Either Associated With a Medium for Parenteral Injection or Suitable for Association With a Medium for Parenteral Injection. Heyden Chemical Corporation, New York, N. Y.
Filed Nov. 29, 1951, Serial No. 621,824. Published Feb. 17, 1953. Class 18.

575,898. French Fried Peanuts. The Palms Peanut Company, Albuquerque, N. Mex.
Filed Nov. 29, 1951, Serial No. 621,836. Published Mar. 24, 1953. Class 46.

575,899. Bank Pins, Dressmaker Pins, Silk Pins, Open End Thimbles, and Snap Fasteners. Scovill Manufacturing Company, Waterbury, Conn.
Filed Dec. 1, 1951, Serial No. 621,987. Published Feb. 10, 1953. Class 40.

575,900. Flooring Compound Including a High Proportion of Calcined Gypsum Plaster. Certain-Teed Products Corporation, Ardmore, Pa.
Filed Dec. 6, 1951, Serial No. 622,142. Published Feb. 17, 1953. Class 12.

575,901. Men's Shoes Made Wholly or in Part of Leather. The Associated Merchandising Corporation, New York, N. Y.
Filed Dec. 7, 1951, Serial No. 622,193. Published Mar. 24, 1953. Class 39.

575,902. Beer. Bosch Brewing Company, Houghton, Mich.
Filed Dec. 7, 1951, Serial No. 622,196. Published Mar. 10, 1953. Class 48.

575,903. Coated and Uncoated Fabrics Including Upholstery, Etc. Birshtein Furniture Studios, Norfolk, Va.
Filed Dec. 10, 1951, Serial No. 622,295. Published Mar. 31, 1953. Class 42.

575,904. Shoes for the Use of Women, Misses, and Children. Ruth Shoe Company, Newburyport, Mass.
Filed Dec. 12, 1951, Serial No. 622,413. Published Mar. 24, 1953. Class 39.

575,905. Constructional Steel Sections, Bars, and Plates. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Dec. 13, 1951, Serial No. 622,468. Published Feb. 17, 1953. Class 12.

575,906. Plastic Hanger Frames for Holding Price Tags. Midtown Manufacturing Corp., New York, N. Y.
Filed Dec. 17, 1951, Serial No. 622,612. Published Mar. 24, 1953. Class 37.

575,907. Blank or Partially Printed Certificates, Representing a Gift to Charity in Memory of a Deceased Person. A. J. Cummings Co., Clinton, Iowa.
Filed Dec. 24, 1951, Serial No. 622,783. Published Feb. 17, 1953. Class 37.

575,908. Blank or Partially Printed Certificates, Representing a Gift to Charity in Memory of a Deceased Person. A. J. Cummings Co., Clinton, Iowa.
Filed Dec. 24, 1951, Serial No. 622,784. Published Feb. 17, 1953. Class 37.

575,909. Motors Operated by Air-Pressure, Vacuum, and Fluid Pressure, and Parts Thereof. Magnatex Limited, Harlington, England.
Filed Dec. 26, 1951, Serial No. 622,837. Published Mar. 10, 1953. Class 23.

575,910. Harmonicas. Nippon Gakki Seizo Kabushiki Kaisha, Hamamatsu-City, Japan.
Filed Dec. 27, 1951, Serial No. 622,904. Published Mar. 31, 1953. Class 36.

575,911. Men's and Women's and Children's Shoes of Leather, Leather and Fabric With or Without Rubber Heels and Rubber or Composition Soles. Wall-Streeter Shoe Company, North Adams, Mass.
Filed Jan. 2, 1952, Serial No. 623,095. Published Mar. 24, 1953. Class 39.

575,912. Sterling Silver Flatware, Silver Plated Flatware, Sterling Silver or Silver Plated Hollowware, Etc. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,108. Published Mar. 17, 1953. Class 28.

575,913. Household Cleaning Brushes—Namely, Brooms, Feather Dusters, Hearth Brooms, Whisk Brooms, Bottle Brushes, Venetian Blind Brushes, and Radiator Brushes; Dust Cloths, and Silverware Polishing Cloths. Miller and Rhoads, Incorporated, Richmood, Va.
Filed Dec. 10, 1951, Serial No. 623,109. Published Mar. 24, 1953. Class 29.

575,914. Burgundy Wine. Comunidad Vina San Jose-Tocornal, Santiago, Chile.
Filed Jan. 3, 1952, Serial No. 623,126. Published Mar. 24, 1953. Class 47.

575,915. Vermouth. Martini & Rossi Corporation, New York, N. Y.
Filed Jan. 3, 1952, Serial No. 623,151. Published Mar. 3, 1953. Class 47.

575,916. Misses' Coats and Suits. Frank Boylin Inc., New York, N. Y.
Filed Jan. 10, 1952, Serial No. 623,395. Published Mar. 24, 1953. Class 39.

575,917. Electrically Operated China Table and Boudoir Lamps and Metal Floor and Table and Boudoir Lamps. Oxford Metal Spinning Co., Inc., also known as Oxford Metal Spinning Company, Inc., Philadelphia, Pa.
Filed Jan. 10, 1952, Serial No. 623,428. Published Mar. 24, 1953. Class 21.

575,918. Gin. Erven Lucas Bols Incorporated, Englewood, N. J.
Filed Jan. 16, 1952, Serial No. 623,642. Published Feb. 17, 1953. Class 49.

575,919. Fisherman's Kit Featuring Scales, Tape, First Aid Medicated Bandages, Razor Blade, Bottle Holder for Iodine and Water Purifying Tablets, and a Match Striking Surface. William A. Utts, doing business as Jiffy Specialty Mfg. Co., Inc., Fort Worth, Tex., assignor to A. E. Betzel, A. E. Betzel, Jr., William A. Betzel, and Charles A. Betzel, doing business as Betzel Specialty Manufacturing Company, Arlington, Tex., a partnership.
Filed Jan. 18, 1952, Serial No. 623,783. Published Mar. 31, 1953. Class 22.

575,920. Men's and Children's Shoes Made of Fabric and Rubber. United States Rubber Company, New York, N. Y.
Filed Jan. 21, 1952, Serial No. 623,858. Published Mar. 24, 1953. Class 39.

575,921. Knives, Forks, Spoons, and Spatulas Made of Base Metal. Marshall Burns, Inc., Chicago, Ill.
Filed Jan. 23, 1952, Serial No. 623,973. Published Mar. 10, 1953. Class 23.

575,922. Fitted and Movable Laboratory Science Desks, Laboratory Tables and Laboratory Benches for Use by Students, Etc. John E. Sjostrom Company, Philadelphia, Pa.
Filed Jan. 26, 1952, Serial No. 624,162. Published Feb. 3, 1953. Class 26.

575,923. Chairs of Wood and Metal, Tables of Wood and Metal, Metal Stools, Bridge Tables, and Kitchen Cabinets. Affiliated Retailers, Inc., New York, N. Y.
Filed Jan. 28, 1952, Serial No. 624,179. Published Mar. 31, 1953. Class 32.

575,924. Card Game. Elizabeth McCarthy, Glendale, Calif.
Filed Jan. 30, 1952, Serial No. 624,283. Published Mar. 31, 1953. Class 22.

575,925. Kitchen Shelf. Chef's Shelf, Inc., Kenosha, Wis.
Filed Feb. 2, 1952, Serial No. 624,446. Published Mar. 31, 1953. Class 32.

575,926. Solenoid or Electric Motor Driven Power Operators for Actuating Valves, Dampers, Flaps, Closure Members, and Condition Regulating Devices. Barber-Colman Company, Rockford, Ill.
Filed Feb. 7, 1952, Serial No. 624,627. Published Mar. 17, 1953. Class 21.

575,927. Translucent and Transparent Types of Parchmentized Tracing Papers. Paterson Parchment Paper Company, Bristol, Pa.
Filed Feb. 8, 1952, Serial No. 624,702. Published Feb. 24, 1953. Class 37.

575,928. Lamp Globes, Lamp Shades, and Lamp Lenses, Bodies, Pendants, and Decorative Prisms for Electric Lamps, Etc. Aktiebolaget Orrefors Glasbruk, Orrefors, Sweden.
Filed Feb. 12, 1952, Serial No. 624,803. Published Mar. 24, 1953. Class 21.

575,929. Portable Electric Tools—Namely, Drills, Saws, Polishers, Grinders, Sanders, and Buffers. Cummins-Chicago Corp., Chicago, Ill.
Filed Feb. 13, 1952, Serial No. 624,875. Published Mar. 24, 1953. Class 21.

575,930. Men's and Boys' Jackets, Sport Vests, Blouses, Dress Shirts, Sport Shirts, and Sweaters. Carter Dry Goods Company, Louisville, Ky.
Filed Feb. 14, 1952, Serial No. 624,929. Published Mar. 3, 1953. Class 39.

575,931. Women's Wearing Apparel—Namely, Slacks, Skirts, Jacket Blouses, Wrap-Around Dress Length Lounging Garments. Evelyn Pearson, Inc., New York, N. Y.
Filed Feb. 15, 1952, Serial No. 625,025. Published Mar. 24, 1953. Class 39.

575,932. Men's Shoes Constructed of Leather, Rubber, Fabric, Etc. Emil Fuhrman, New York, N. Y.
Filed Feb. 16, 1952, Serial No. 625,067. Published Mar. 24, 1953. Class 39.

575,933. Ladies' Dresses. Anita Modes, Inc., New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,249. Published Mar. 10, 1953. Class 39.

575,934. Non-Ionic, Fatty Acid Ester Type Dispersing Agent, Generally Used for the Scouring and Dyeing of All Types of Textile Yarns and Fabrics, Etc. Commonwealth Color & Chemical Company, New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,254. Published Mar. 17, 1953. Class 52.

575,935. Plastic Sealing Compound. Peter L. Cassidy, doing business as Cass Products Company, Chicago, Ill.
Filed Feb. 21, 1952, Serial No. 625,338. Published Feb. 17, 1953. Class 12.

575,936. Merchandise Wrapping Paper. Orchard Paper Co., St. Louis, Mo.
Filed Feb. 25, 1952, Serial No. 625,489. Published Feb. 24, 1953. Class 37.

575,937. Automobile Seat Cover Fabric, Said Fabric Being Made of Acetate, Cotton, and Rubber Thread. Ansonia Mills, Inc., Ansonia, Conn., Taunton, Mass., and New York, N. Y.
Original filed, act of 1946, Supplemental Register, Feb. 26, 1952; amended to application, Principal Register, June 18, 1952, Serial No. 625,513. Published Mar. 31, 1953. Class 42.

575,938. Calculating and Adding Machines. Brunsviga Maschinenwerke, A. G., Braunschweig, Germany.
Filed Feb. 12, 1952, Serial No. 625,563. Published Feb. 3, 1953. Class 26.

575,939. Mattresses and Box Springs. Denison Mattress Factory, Denison, Tex.
Filed Feb. 28, 1952, Serial No. 625,663. Published Mar. 31, 1953. Class 32.

575,940. Electronic Tubes. Compagnie Generale de Telegraphie Sans Fil, Paris, France.
Priority under Sec. 44(d). French Registration No. 417,004, filed Jan. 9, 1952.
Filed Mar. 4, 1952, Serial No. 625,890. Published Mar. 31, 1953. Class 21.

575,941. Barbers' Razors and Shears. Peter J. Michels, Inc., Brooklyn, N. Y.
Filed Mar. 4, 1952, Serial No. 625,914. Published Jan. 20, 1953. Class 23.

575,942. Metal Molding. A. W. Hastings & Co. Inc., Somerville, Mass.
Filed Mar. 12, 1952, Serial No. 626,327. Published Feb. 17, 1953. Class 12.

575,943. Fruit Acid Solution for Food Purposes; Baking Powders; Etc. Huter-Quest & Co., Inc., Louisville, Ky.
Filed Mar. 12, 1952, Serial No. 626,328. Published Mar. 17, 1953. Class 46.

575,944. Embossed or Mechanically Grooved Sound Recording and Reproducing Tape of the Continuous or Closed Loop Type, for Use in Sound Recording and Reproducing Apparatus. Daystrom, Incorporated, Elizabeth, N. J.
Filed Mar. 14, 1952, Serial No. 626,446. Published Mar. 31, 1953. Class 36.

575,945. Electrical Converters (for Converting Alternating Current Into Direct Current). Austin W. La Marche, doing business as La Marche Mfg. Co., Chicago, Ill.
Filed Mar. 17, 1952, Serial No. 626,579. Published Mar. 31, 1953. Class 21.

575,946. Whiskey. Stitzel-Weller Distillery, Shively, Ky.
Filed Mar. 17, 1952, Serial No. 626,595. Published Mar. 3, 1953. Class 49.

575,947. Upholstered Furniture—Namely, Chairs, Sofas, Love Seats, and Sectional Chairs and Sofas. Prestige Chair Corporation, Newton, N. C.
Filed Mar. 18, 1952, Serial No. 626,638. Published Mar. 31, 1953. Class 32.

575,948. Canned Fruit Juices, Specially Prepared for Infants. The Bib Corporation, Lakeland, Fla.
Filed Mar. 21, 1952, Serial No. 626,779. Published Mar. 17, 1953. Class 46.

575,949. Pads in the Nature of Mattresses. Thayer, Inc., Gardner, Mass.
Filed Mar. 24, 1952, Serial No. 626,968. Published Mar. 17, 1953. Class 32.

575,950. Sauce Made of Tomato Paste, Whole Tomatoes, Vegetable Oil, Flour, Vinegar, Salt, Sugar, Dehydrated Onion, Corn Starch, Carrots Dehydrated, Spices, Soya Beans, and Water for Use on Meat, Chicken, and Other Foods. Louis Milani Foods, Inc., Los Angeles, Calif.
Filed Mar. 25, 1952, Serial No. 627,000. Published Mar. 24, 1953. Class 46.

575,951. Canadian Whiskey. Jas. Barclay & Co. Limited, Detroit, Mich., and Peoria, Ill.
Filed Mar. 26, 1952, Serial No. 627,038. Published Mar. 3, 1953. Class 49.

575,952. Pianos. Estey Piano Corp., Bluffton, Ind.
Filed Mar. 20, 1952, Serial No. 627,257. Published Mar. 31, 1953. Class 36.

575,953. Staple Removing Devices of the Hand Operated Desk Type. Mutual Stationers Supply Corporation, New York, N. Y.
Filed Mar. 29, 1952, Serial No. 627,272. Published Mar. 10, 1953. Class 23.

575,954. Bibs for Children. Donovan Enterprises, Saugatuck, Conn.
Filed Apr. 2, 1952, Serial No. 627,427. Published Mar. 10, 1953. Class 39.

575,955. Chemically-Treated Cleaning and Polishing Cloths. William W. Shultz, doing business as Clean-E-Ze Manufacturing Company, Philadelphia, Pa.
Filed Apr. 2, 1952, Serial No. 627,466. Published Mar. 17, 1953. Class 29.

575,956. Printers' Rollers. Bingham Brothers Company, New York, N. Y.
Filed Mar. 24, 1952, Serial No. 627,530. Published Mar. 10, 1953. Class 23.

575,957. Pickles and Pickle Relish. Missouri Pickle Company, doing business under the name of The Pickle Barrel, Los Angeles, Calif.
Filed Apr. 4, 1952, Serial No. 627,592. Published Mar. 17, 1953. Class 46.

575,958. Men's, Women's, and Children's Moccasins. Samuel S. Reiff, doing business under the style and title of Reiff Shoe Co., Denver, Colo.
Filed Apr. 4, 1952, Serial No. 627,601. Published Mar. 3, 1953. Class 39.

575,959. Non-Alcoholic, Maltless Beverages Sold as Soft Drinks. Booth Bottling Co. Inc., Philadelphia, Pa.
Filed Apr. 9, 1952, Serial No. 627,797. Published Mar. 3, 1953. Class 45.

575,960. Chenille Bedspreads, Chenille and Loop Rugs, Chenille Tufted Yard Goods, Tufted Bath Mats and Sets, Place Mats, All Being Made of Cotton or in Substantial Part of Cotton. King Cotton, Inc., Dalton, Ga.
Filed Apr. 9, 1952, Serial No. 627,824. Published Nov. 18, 1952. Class 42.

575,961. Piece Goods of Synthetic Fibers. William Heller, Incorporated, New York, N. Y.
Filed Apr. 10, 1952, Serial No. 627,879. Published Mar. 31, 1953. Class 42.

575,962. Furniture—Namely, Gossip Benches, Cedar Chests, Wardrobes, Dinette Sets, Telephone Benches, and Love Seats. Carlo Bombara, doing business as New Art Shop, Jamaica, N. Y.
Filed Apr. 11, 1952, Serial No. 627,922. Published Mar. 31, 1953. Class 32.

575,963. Canadian Whiskey. Schenley Import Corporation, New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,962. Published Mar. 3, 1953. Class 49.

575,964. Phonographs and Record Players. Vanity Fair Co., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,991. Published Mar. 31, 1953. Class 36.

575,965. Ladies', Misses', and Women's Coats and Suits. Braff, Leidner & Eisenstadt Corp., New York, N. Y.
Filed Apr. 17, 1952, Serial No. 628,188. Published Mar. 24, 1953. Class 39.

575,966. Champagne Wines. Jean Danflou, Paris, France.
Filed Apr. 18, 1952, Serial No. 628,260. Published Mar. 24, 1953. Class 47.

575,967. Electrically Operated Machines Adapted To Broil or Roast Food Parcels. Glenray Sales & Mfg. Co., Quincy, Mich.
Filed Apr. 19, 1952, Serial No. 628,353. Published Mar. 17, 1953. Class 21.

575,968. Chelating Agent for Iron, Being Synthetic Amino Acid Sodium Salt Capable of Reacting and Complexing Iron in a pH Range of From Approximately 3.5 to pH 11. Bersworth Chemical Company, Framingham, Mass.
Filed Apr. 22, 1952, Serial No. 628,460. Published Mar. 17, 1953. Class 6.

575,969. Chelating Agent for Iron and Divalent Metal Ions Capable of Complexing Iron in Strongly Alkaline Solutions of Strength From One to Fifty Per Cent. Bersworth Chemical Company, Framingham, Mass.
Filed Apr. 22, 1952, Serial No. 628,461. Published Mar. 24, 1953. Class 6.

575,970. Fabrics of Cotton, of Synthetic Fibers, and of Mixtures of the Same. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed Apr. 24, 1952, Serial No. 628,606. Published Mar. 31, 1953. Class 42.

575,971. Fabrics of Cotton, of Synthetic Fibers, and of Mixtures of the Same Joseph Bancroft & Sons Co., Wilmington, Del.
Filed Apr. 24, 1952, Serial No. 628,607. Published Mar. 31, 1953. Class 42.

575,972. Beer. Sicks' Seattle Brewing & Malting Co., Seattle, Wash.
Filed Apr. 25, 1952, Serial No. 628,663. Published Mar. 24, 1953. Class 48.

575,973. Electrically Operated Sirens. Federal Enterprises, Inc., Chicago, Ill.
Filed Apr. 25, 1952, Serial No. 628,685. Published Mar. 31, 1953. Class 21.

575,974. Mattresses. The Standard Mattress Company, Hartford, Conn.
Filed Apr. 25, 1952, Serial No. 628,724. Published Mar. 31, 1953. Class 32.

575,975. Translators, Portable Radio Transmitter-Receivers, Components of Radar and Sonar Equipment—Namely, Antennae, Transformers, Coils, and Capacitors. Texas Instruments Incorporated, Dallas, Tex.
Filed Apr. 25, 1952, Serial No. 628,725. Published Mar. 31, 1953. Class 21.

575,976. Men's Outer Shirts. Pendleton Woolen Mills, Portland, Oreg.
Filed Apr. 29, 1952, Serial No. 628,867. Published Mar. 10, 1953. Class 39.

575,977. Shirts for Outerwear for Boys. Jets Inc., New York, N. Y.
Filed May 1, 1952, Serial No. 629,025. Published Mar. 10, 1953. Class 39.

575,978. Vitamin D Concentrates in Milk Constituents for Use in Milk and Foods Where Milk Is Used as an Ingredient. Nopco Chemical Company, Harrison, N. J.
Filed May 3, 1952, Serial No. 629,180. Published Feb. 24, 1953. Class 18.

575,979. Storm Windows. Arnold Products, Inc., Opa Locka, Fla.
Filed May 5, 1952, Serial No. 629,187. Published Feb. 17, 1953. Class 12.

575,980. Permanent Ferrite Magnets. Ferroxcube Corporation of America, New York, N. Y.
Filed May 5, 1952, Serial No. 629,194. Published Mar. 31, 1953. Class 21.

575,981. Wood-Plastic Furniture Using Wood Frames and Structure With Plastic Surfaces, Etc. Daystrom, Incorporated, Elizabeth, N. J.
Filed May 6, 1952, Serial No. 629,234. Published Mar. 17, 1953. Class 32.

575,982. Irish Moss Extractives, Irish Moss Extractives With Added Ingredients, Such as Potassium Salts, Locust Bean Gum, and Potassium Salts and Dextrose. Seaplant Chemical Corporation, New Bedford, Mass.
Filed May 6, 1952, Serial No. 629,257. Published Mar. 17, 1953. Class 6.

575,983. Women's Dresses, Suits, Skirts, Jackets, Blouses, and Coats. Weinberger Garment Company, St. Louis, Mo.
Filed May 7, 1952, Serial No. 629,336. Published Mar. 24, 1953. Class 39.

575,984. Solution Used in the Treatment of Asthma and Hay Fever. Asthmanefrin Company, Incorporated, doing business under the assumed business name and style of Vaponefrin Company, Portland, Oreg., and Upper Darby, Pa.
Filed May 8, 1952, Serial No. 629,341. Published Feb. 17, 1953. Class 18.

575,985. Chairs. Milwaukee Chair Company, Milwaukee, Wis.
Filed May 9, 1952, Serial No. 629,447. Published Mar. 31, 1953. Class 32.

575,986. Women's Hats, Dresses, Gloves of Leather, Fabric, and Combinations Thereof; Shoes, Scarves. Lilly Dache, Inc., New York, N. Y.
Filed May 10, 1952, Serial No. 629,499. Published Feb. 3, 1953. Class 39.

575,987. Pies With Sweet Fillings, Icebox Cookie Rolls, Layer Cakes, Chicken Pies, Tuna Pies, Waffles, and Blueberry Muffin Mix, All Frozen. Mrs. Lee's Pies, Inc., Los Angeles, Calif.
Filed May 12, 1952, Serial No. 629,575. Published Mar. 31, 1953. Class 46.

575,988. Preparation for the Treatment of Calf Scours. Mountain Laboratories, Inc., Warrenton, Va.
Filed May 14, 1952, Serial No. 629,681. Published Feb. 17, 1953. Class 18.

575,989. Moisteners for Stamps, Envelopes, Gummed Tape, Labels, and the Like. Northeastern Plastics, Inc., Boston, Mass.
Filed May 14, 1952, Serial No. 629,685. Published Mar. 10, 1953. Class 37.

575,990. Plant Food. Antro Gardens, Inc., Lyons, N. Y.
Filed May 15, 1952, Serial No. 629,710. Published Mar. 17, 1953. Class 10.

575,991. Laxative Salt. Banfi Products Corp., New York, N. Y.
Filed May 16, 1952, Serial No. 629,764. Published Feb. 17, 1953. Class 18.

575,992. Nets for Use in the Fishing Industry. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada.
Filed May 16, 1952, Serial No. 629,779. Published Mar. 31, 1953. Class 22.

575,993. Books. East European Fund, Inc., also doing business under the name of the Chekhov Publishing House of East European Fund, Inc., New York, N. Y.
Filed May 16, 1952, Serial No. 629,782. Published Mar. 17, 1953. Class 38.

575,994. Men's Trousers. The Moyer Manufacturing Company, Youngstown, Ohio, and New York, N. Y.
Filed May 17, 1952, Serial No. 629,858. Published Mar. 17, 1953. Class 39.

575,995. Denture Cleanser. Painaliay Company, Inc., Findlay, Ohio.
Filed May 17, 1952, Serial No. 629,860. Published Feb. 17, 1953. Class 51.

575,996. Polyethylene Laminated Paper for Wrapping Food. Roseth Corporation, Brooklyn, N. Y.
Filed May 20, 1952, Serial No. 629,955. Published Feb. 10, 1953. Class 37.

575,997. Rubber Boots for Men, Women, and Children. Shoe Corporation of America, Columbus, Ohio.
Filed May 20, 1952, Serial No. 629,959. Published Mar. 24, 1953. Class 39.

573,998. Hand Sewing Needles. World Merchandise Exchange & Trading Co., Inc., New York, N. Y.
Filed May 20, 1952, Serial No. 629,980. Published Feb. 10, 1953. Class 40.

573,999. Slippers of Conductive Material for Men and Women. Conductive Hospital Accessories Corporation, Boston, Mass.
Filed May 21, 1952, Serial No. 629,989. Published Mar. 24, 1953. Class 39.

576,000. Quilted Mattress Pads and Protectors Made Wholly or in Substantial Part of Cotton. National Sure-Fit Quilting Co., Inc., New York, N. Y.
Filed May 21, 1952, Serial No. 630,017. Published Nov. 18, 1952. Class 42.

576,001. Heels and Soles of Rubber, Plastic, and Rubber Composition. Beebe Rubber Company, Nashua, N. H.
Filed May 24, 1952, Serial No. 630,181. Published Mar. 24, 1953. Class 39.

576,002. Paper Towels, Facial Tissues, and Toilet Tissues. John Sexton & Co., Chicago, Ill.
Filed May 24, 1952, Serial No. 630,216. Published Mar. 10, 1953. Class 37.

576,003. Women's Shoes. Benjamin Warshauer, Stockton, Calif.
Filed May 27, 1952, Serial No. 630,362. Published Mar. 24, 1953. Class 39.

576,004. Men's Clothing—Namely, Coats and Trousers, Tuxedo Coats and Trousers, and Full Dress Coats and Trousers. Baker Clothes, Inc., Philadelphia, Pa.
Filed May 28, 1952, Serial No. 630,376. Published Mar. 10, 1953. Class 39.

576,005. Scotch Whisky. Macdonald & Muir Limited, Leith, Scotland.
Filed May 28, 1952, Serial No. 630,432. Published Mar. 10, 1953. Class 49.

576,006. Umbrella Display Stands. Essex Manufacturing Co. Inc., New York, N. Y.
Filed May 29, 1952, Serial No. 630,482. Published Mar. 31, 1953. Class 32.

576,007. Leather Moccasins for Men, Women, and Children. Thurlow Glove Company, Portland, Oreg.
Filed May 31, 1952, Serial No. 630,554. Published Mar. 24, 1953. Class 39.

576,008. Canned Salmon. Keystone Packing Co., Ilwaco, Wash.
Filed June 4, 1952, Serial No. 630,712. Published Mar. 17, 1953. Class 46.

576,009. Top Lifts, Taps and Strips for Heels, and Soles for Shoes. Morris Feldstein & Son, Inc., New York, N. Y.
Filed June 3, 1952, Serial No. 630,773. Published Mar. 24, 1953. Class 39.

576,010. Men's Suits, Pants, and Overcoats. A. Sagner's Son, Baltimore, Md.
Filed June 3, 1952, Serial No. 630,800. Published Mar. 10, 1953. Class 39.

576,011. Men's Wear—Namely, Hats, Suits, Coats, Jackets, Trousers, Dress and Sport Shirts, Underwear, Robes, Socks, Ties, and Handkerchiefs. David A. Goldberg, Westwood, N. J.
Filed June 6, 1952, Serial No. 630,839. Published Mar. 10, 1953. Class 39.

576,012. All-Purpose Sauce, Meat Sauce, Fish Sauce, Crabmeat and Lobster Sauce, Salad Sauce, Salad Dressing, Hot Dog Sauce, Hamburg Sauce, Stuffed Egg Sauce, Vegetable Sauce, Baked Beans Sauce, Cheese Sauce, and Sauce for Mayonnaise Mixture. Alexander O. Lindquist, New Britain, Conn.
Filed June 6, 1952, Serial No. 630,848. Published Mar. 17, 1953. Class 46.

576,013. Ladies' and Misses' Scarves, Stoles, Midriffs, Halters, Caps, and Blouses. Baar & Beards, Inc., New York, N. Y.
Filed June 7, 1952, Serial No. 630,871. Published Mar. 10, 1953. Class 39.

576,014. Canned Dog Food. Evans Industries, Inc., Marion, Ind.
Filed June 9, 1952, Serial No. 630,928. Published Mar. 17, 1953. Class 46.

576,015. Men's, Women's, and Boys' Leather Outer Garments—Namely, Coats, Jackets, and Skirts. Abe M. Harvitz, doing business under the name Los Angeles Sportogs Company, Los Angeles, Calif.
Filed June 9, 1952, Serial No. 630,934. Published Mar. 10, 1953. Class 39.

576,016. Fishing Spinners, Artificial Fish Lures, and Artificial Bait. E. S. Scanlan, doing business as the Aeroplane Spinner Manufacturing Co., Denver, Colo.
Filed June 9, 1952, Serial No. 630,964. Published Mar. 31, 1953. Class 22.

576,017. Non-Alcoholic, Maltless Soft Drinks, John Calvin Core, Jr., Huntington, W. Va.
Filed June 10, 1952, Serial No. 630,987. Published Mar. 3, 1953. Class 45.

576,018. Baked Goods—Namely, Cookies. Ednah H. Farnsworth, Cuba, N. Y.
Filed June 11, 1952, Serial No. 631,053. Published Mar. 17, 1953. Class 46.

576,019. Shanks for Shoes. New England Shank Co. Inc., Hillsborough, N. H., and Somerville, Mass.
Filed June 11, 1952, Serial No. 631,065. Published Mar. 24, 1953. Class 39.

576,020. Electrical Cable. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed June 12, 1952, Serial No. 631,135. Published Mar. 31, 1953. Class 21.

576,021. Electrical Cable. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed June 12, 1952, Serial No. 631,136. Published Mar. 31, 1953. Class 21.

576,022. Men's Leather Shoes. Huth-James Shoe, Inc., Milwaukee, Wis.
Filed June 13, 1952, Serial No. 631,160. Published Mar. 24, 1953. Class 39.

576,023. Sugar, Sugar Syrup, Invert Sugar, and Liquid Sugar. American Molasses Company, New York, N. Y.
Filed June 14, 1952, Serial No. 631,193. Published Mar. 17, 1953. Class 46.

576,024. Vegetable Oil Food Products—Namely, Shortening, Salad Oil, and Cooking Oil. Anderson, Clayton & Co., Sherman, Tex., and elsewhere.
Filed June 16, 1952, Serial No. 631,232. Published Mar. 17, 1953. Class 46.

576,025. Folding Canvas Baby Carriage Adapted for Use as an Automobile Bed for a Child. Roudout Metal Products Co., Inc., New York, N. Y.
Filed June 18, 1952, Serial No. 631,377. Published Mar. 31, 1953. Class 19.

576,026. Men's Neckwear—Namely, Four-In-Hand Ties, Bow Ties, and Scarves. Price Cravat Co., Inc., New York, N. Y.
Filed June 20, 1952, Serial No. 631,493. Published Mar. 10, 1953. Class 39.

576,027. Men's Suits, Outer Shirts, and Neckties. Societe Anonyme Jeanne Lanvin, Paris, France.
Filed June 2, 1952, Serial No. 631,520. Published Mar. 10, 1953. Class 39.

576,028. Fractional Horsepower Electric Motor Rheostat Controls. Getz Bros. & Co., San Francisco, Calif.
Filed June 21, 1952, Serial No. 631,554. Published Mar. 31, 1953. Class 21.

576,029. Ladies' and Men's Sportswear—Namely, Shirts, Jackets, Slacks, and Neckties. Montecito Apparel, Inc., Santa Barbara, Calif.
Filed June 21, 1952, Serial No. 631,561. Published Mar. 24, 1953. Class 39.

576,030. Collars. M. H. Raab-Meyerhoff Co., Inc., Philadelphia, Pa.
Filed June 21, 1952, Serial No. 631,577. Published Mar. 10, 1953. Class 39.

576,031. Check Book Covers. The Todd Company, Inc., Rochester, N. Y.
Filed June 21, 1952, Serial No. 631,583. Published Mar. 10, 1953. Class 37.

576,032. Food Seasoning Containing Salt, Monosodium Glutamate, and Various Flavorings and Spices. Large Charge Corporation of America, Inc., Tarpon Springs, Fla.
Filed June 23, 1952, Serial No. 631,625. Published Mar. 17, 1953. Class 46.

576,033. Internal Combustion Engines. Nordberg Manufacturing Company, Milwaukee, Wis.
Filed June 25, 1952, Serial No. 631,753. Published Jan. 20, 1953. Class 23.

576,034. Card Games for Children. Irving Brambier, doing business as Ed-U-Cards, New York, N. Y.
Filed June 26, 1952, Serial No. 631,787. Published Mar. 31, 1953. Class 22.

576,035. Card Games for Children. Irving Brambier, doing business as Ed-U-Cards, New York, N. Y.
Filed June 26, 1952, Serial No. 631,788. Published Mar. 31, 1953. Class 22.

576,036. Electrical Desk, Table, and Pin Up Lamps. Industrial Lamp Corporation, Elkhart, Ind.
Filed June 27, 1952, Serial No. 631,868. Published Mar. 24, 1953. Class 21.

576,037. Base Metal Table Cutlery—Namely, Knives, Forks, and Spoons. National Silver Company, New York, N. Y.
Filed June 27, 1952, Serial No. 631,882. Published Mar. 10, 1953. Class 23.

576,038. Railway Bed Maintenance Machines—Namely, Machines Fitted With Wheels Permitting Vehicular Operation on Railway Tracks, and Equipped With Apparatus for Lifting, Etc. Auguste Scheuchzer, Lausanne, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 141,093, filed Feb. 8, 1952.
Filed June 27, 1952, Serial No. 631,894. Published Mar. 10, 1953. Class 23.

576,039. Men's, Women's, and Children's Dungarees; Men's and Children's Western Dungarees, Etc. Blue Bell, Inc., Greensboro, N. C.
Filed June 28, 1952, Serial No. 631,918. Published Mar. 10, 1953. Class 39.

576,040. Detonators and Safety Fuses. Imperial Chemical Industries Limited, London, England.
Filed June 28, 1952, Serial No. 631,933. Published Mar. 17, 1953. Class 9.

576,041. Smoked Dried Boneless Fish. Alexander Aloff, doing business under the name Chicago Packing Company, Chicago, Ill.
Filed June 30, 1952, Serial No. 631,968. Published Mar. 17, 1953. Class 46.

576,042. Infants' Shoes Made of Leather, Fabric, and Combinations Thereof. Bloser Baby Shoe Co., doing business under the name Tiny Twidler Shoe Company, Gettysburg, Pa.
Filed June 30, 1952, Serial No. 631,975. Published Mar. 24, 1953. Class 39.

576,043. Stencils Used for Pictorially Reproducing Variegated Designs of Fanciful Configurations Including Birds, Flowers, Characters, Animals, and the Like. Videll Dougherty, doing business under the style and title of Polly-Dell Textile Stencils, Glasco, Kans.
Filed July 3, 1952, Serial No. 632,115. Published Feb. 24, 1953. Class 37.

576,044. Fungicides, Insecticides, and Disinfectants for Plants, Seeds, Seed Pods, Fruits, Nuts, and Tubers. Rose Manufacturing Company, Beacon, N. Y.
Filed July 8, 1952, Serial No. 632,209. Published Mar. 17, 1953. Class 6.

576,045. Combination Shearing, Trimming, and Edging Tools for Lawn and Garden Use. Earl L. Chadwick, doing business as Earl L. Chadwick Company, Portland, Oreg.
Filed July 9, 1952, Serial No. 632,291. Published Mar. 10, 1953. Class 23.

576,046. Shower Slippers and Clogs for the Use of Men, Women, and Children. B. Hecker Co., New York, N. Y.
Filed July 10, 1952, Serial No. 632,372. Published Mar. 24, 1953. Class 39.

576,047. Ink Marking Pens. Lanak-Roehl Mfg. Co., Minneapolis, Minn.
Filed July 10, 1952, Serial No. 632,380. Published Feb. 24, 1953. Class 37.

576,048. Women's and Misses' Hosiery. Herman Spiller, trading as Spiller Hosiery Company, also known as Spiller Hosiery Co., Doylestown, Pa.
Filed July 10, 1952, Serial No. 632,397. Published Mar. 17, 1953. Class 39.

576,049. Mineral and Aerated Waters, Nonalcoholic Maltless Soft Drinks and Syrups Used in the Preparation of Soft Drinks. Frank Newcombe Shields, trading as W. Ryder & Co., Bradford, England.
Filed July 11, 1952, Serial No. 632,446. Published Mar. 24, 1953. Class 45.

576,050. Beer, Ale, and Porter. Frank Newcombe Shields, trading as W. Ryder & Co., Bradford, England.
Filed July 11, 1952, Serial No. 632,447. Published Mar. 17, 1953. Class 48.

576,051. Men's and Women's Belts. Louis Kovacs, doing business as Kovax Products, New York, N. Y.
Filed July 12, 1952, Serial No. 632,481. Published Feb. 24, 1953. Class 39.

576,052. Electrical Resistors. Ward Leonard Electric Company, Mount Vernon, N. Y.
Filed July 12, 1952, Serial No. 632,495. Published Mar. 17, 1953. Class 21.

576,053. Kraft Paperboard. International Paper Company, New York, N. Y.
Filed July 15, 1952, Serial No. 632,564. Published Feb. 24, 1953. Class 37.

576,054. Sewing Machines. Morse Sewing Machine and Supply Corp., New York, N. Y.
Filed July 15, 1952, Serial No. 632,568. Published Feb. 10, 1953. Class 23.

576,055. Women's, Misses', and Girls' Slipover and Cardigan Sweaters. Boepple Sportswear Mills, Inc., New York, N. Y.
Filed July 16, 1952, Serial No. 632,593. Published Mar. 17, 1953. Class 39.

576,056. Impregnated and Rubberized Cotton Fabric in the Piece. Société à Responsabilité Limitée dite: Comptoir de l'Industrie Cotonniere, Etablissements Boussac, Paris, France.
Filed July 16, 1952, Serial No. 632,631. Published Mar. 31, 1953. Class 42.

576,057. Injectable Pyrogen. Travenol Laboratories, Inc., Morton Grove, Ill.
Filed July 16, 1952, Serial No. 632,636. Published Feb. 17, 1953. Class 18.

576,058. Wallpapers. Devoe & Raynolds Company, Inc., New York, N. Y.
Filed July 17, 1952, Serial No. 632,666. Published Feb. 24, 1953. Class 37.

576,059. Soles and Heels Composed of an Elastomer and a Resin. The Goodyear Tire & Rubber Company, Akron, Ohio.
Filed July 17, 1952, Serial No. 632,670. Published Mar. 24, 1953. Class 39.

576,060. Tick Powder and Flea Powder for Use on Dogs. Polk Miller Products Corporation, Richmond, Va.
Filed July 17, 1952, Serial No. 632,688. Published Mar. 17, 1953. Class 6.

576,061. Chickens, Fresh, Frozen, and Cooked. The Wm. Schlunderberg-T. J. Kurdle Company, Baltimore, Md.
Filed July 17, 1952, Serial No. 632,694. Published Mar. 17, 1953. Class 46.

576,062. Flavored Coatings for Frozen Confections and a Vegetable Oil Used as a Thinner for Said Coatings. John B. Kisky, doing business as J. B. Kisky Co., Portland, Oreg.
Filed July 21, 1952, Serial No. 632,841. Published Mar. 24, 1953. Class 46.

576,063. Canned Fruits, Canned Vegetables, Canned Fish, Jams, Jellies, and Fruit Preserves. Haas, Baruch & Co., Los Angeles, Calif.
Filed July 22, 1952, Serial No. 632,881. Published Mar. 17, 1953. Class 46.

576,064. Canvas and Rubber Footwear—Specifically, Tennis Shoes, Sneakers, Basketball Shoes, Casual Shoes, and Rubber Boots for Men, Boys, Youths, Women, and Misses. The Rubber Corporation of California, Garden Grove, Calif.
Filed July 22, 1952, Serial No. 632,903. Published Mar. 24, 1953. Class 39.

576,065. Frozen Shrimp. Florida Frozen Fish Products, Inc., Sarasota, Fla.
Filed July 25, 1952, Serial No. 633,052. Published Mar. 17, 1953. Class 46.

576,066. Die Presses. Hobbs Manufacturing Company, Worcester, Mass.
Filed July 25, 1952, Serial No. 633,056. Published Feb. 17, 1953. Class 23.

576,067. Vodka. The American Distilling Company, Pekin, Ill., doing business as Waldo Springs Distilling Company, Sausalito, Calif.
Filed July 26, 1952, Serial No. 633,096. Published Mar. 24, 1953. Class 49.

576,068. Printing Paper. The Champion Paper and Fibre Company, Hamilton, Ohio.
Filed July 26, 1952, Serial No. 633,100. Published Feb. 10, 1953. Class 37.

576,069. Electrical Floor and Table Lamps. T. Philip Scott, doing business as Scott Products Co., Chicago, Ill.
Filed July 26, 1952, Serial No. 633,126. Published Mar. 31, 1953. Class 21.

576,070. Commercial Fertilizer. Guy D. Austin, Miami, Fla.
Filed July 29, 1952, Serial No. 633,192. Published Mar. 17, 1953. Class 10.

576,071. Corrugated Wrapping Paper. Sherman Paper Products Corporation, Newton, Mass.
Filed July 31, 1952, Serial No. 633,335. Published Feb. 10, 1953. Class 37.

576,072. Pocket and Hunting Knives. Reliance Merchandise Co., Inc., doing business under the style Relco, Chicago, Ill.
Filed Aug. 2, 1952, Serial No. 633,431. Published Feb. 17, 1953. Class 23.

576,073. Textile Fabrics in the Piece Made of Synthetic Fibers. Wennonah Cotton Mills Company, Lexington, N. C.
Filed Aug. 5, 1952, Serial No. 633,523. Published Mar. 31, 1953. Class 42.

576,074. Men's Shoes Constructed of Leather, Rubber, Fabric, or Combinations Thereof. Freeman Shoe Corporation, Beloit, Wis.
Filed Aug. 7, 1952, Serial No. 633,575. Published Mar. 24, 1953. Class 39.

576,075. Wines. Schenley Import Corporation, New York, N. Y.
Filed Aug. 11, 1952, Serial No. 633,739. Published Mar. 3, 1953. Class 47.

576,076. Toy Novelty Consisting of a Figure To Be Inserted in a Cigarette Pack. Four Guys Products, Inc., New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,763. Published Mar. 31, 1953. Class 22.

576,077. Boys' and Girls' Clothing—Namely, Snow Suits, Storm Coats, Top Coats, Snow Pants, Outer Jackets, and Suits. Winer Sportswear, Inc., Paterson, N. J.
Filed Aug. 12, 1952, Serial No. 633,812. Published Mar. 17, 1953. Class 39.

576,078. Polymerized Marine Oil Used in the Manufacture of Lubricants, Rust Preventives, Textile Chemicals, and Drawing and Stamping Compounds. Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio.
Filed Aug. 13, 1952, Serial No. 633,830. Published Mar. 17, 1953. Class 6.

576,079. Ladies' Hosiery. Prim Hosiery, Incorporated, Chester, Ill.
Filed Aug. 13, 1952, Serial No. 633,872. Published Mar. 17, 1953. Class 39.

576,080. Agricultural Fertilizer. Bersworth Chemical Company, Framingham, Mass.
Filed Aug. 15, 1952, Serial No. 633,966. Published Mar. 24, 1953. Class 10.

576,081. Women's Hosiery. H. & K. Hosiery Co., New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,979. Published Mar. 17, 1953. Class 39.

576,082. Polyvinyl Chloride Which Is Dispersed in Plasticizer, Becomes a Paste, Is Sold in Metallic Drums, and Is Used in the Manufacture of Vinyl Products, Such as Vinyl Boots and Vinyl Dolls. Abion Finishes, Inc., Newark, N. J.
Filed Aug. 16, 1952, Serial No. 634,024. Published Mar. 17, 1953. Class 6.

576,083. Fresh Grapes. Hoak Packing Company, Inc., Fresno, Calif.
Filed Aug. 18, 1952, Serial No. 634,086. Published Mar. 24, 1953. Class 46.

576,084. Table Tops. The Monroe Company, Colfax, Iowa.
Filed Aug. 19, 1952, Serial No. 634,154. Published Mar. 17, 1953. Class 32.

576,085. Mink Skins and Pelts. Neiman-Marcus Company, Dallas, Tex.
Filed Aug. 19, 1952, Serial No. 634,158. Published Mar. 17, 1953. Class 1.

576,086. Hardboard. Simpson Logging Company, Seattle, Wash.
Filed Aug. 20, 1952, Serial No. 634,219. Published Feb. 17, 1953. Class 12.

576,087. Aggregate for Fertilizer in the Nature of Granular Expanded Volcanic Rock. Indoken Perlite Company, St. Bernard, Ohio.
Filed Aug. 21, 1952, Serial No. 634,256. Published Mar. 24, 1953. Class 10.

576,088. Preparation for Washing, Coating, and Strengthening Textiles and Textile Fabrics. Seeman Brothers, Inc., New York, N. Y.
Filed Aug. 21, 1952, Serial No. 634,271. Published Mar. 17, 1953. Class 52.

576,089. Women's Hosiery. Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa.
Filed Aug. 22, 1952, Serial No. 634,290. Published Mar. 17, 1953. Class 39.

576,090. Women's Hosiery. Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa.
Filed Aug. 22, 1952, Serial No. 634,291. Published Mar. 17, 1953. Class 39.

576,091. Clutches and Clutch and Shaft Assemblies. High Precision, Incorporated, Hamden, Conn.
Filed Aug. 23, 1952, Serial No. 634,371. Published Mar. 10, 1953. Class 23.

576,092. Furniture—Namely, Settees, Chairs, Beds, Cushions, Bolsters, and Pillows of Foam Rubber. Leeko Mfg. Co., Inc., New York, N. Y.
Filed Aug. 23, 1952, Serial No. 634,375. Published Mar. 17, 1953. Class 32.

576,093. Vegetable Oil Food Products—Namely, Shortening, Salad Oil, Cooking Oil, and Margarine. Anderson, Clayton & Co., Sherman, Tex., and elsewhere in the United States.
Filed Aug. 27, 1952, Serial No. 634,516. Published Mar. 17, 1953. Class 46.

576,094. Ladies' and Misses' Coats, Suits, Jackets, and Skirts. The House of Swansdown, Inc., New York, N. Y.
Filed Aug. 28, 1952, Serial No. 634,594. Published Mar. 24, 1953. Class 39.

576,095. Kitchen Cabinets. Keystone Cabinet Company, Littlestown, Pa.
Filed Aug. 28, 1952, Serial No. 634,598. Published Mar. 31, 1953. Class 32.

576,096. Interlining Fabrics of Cotton, Linen, and Synthetic Fibers. Vintex Corporation of America, New York, N. Y.
Filed Aug. 28, 1952, Serial No. 634,614. Published Mar. 31, 1953. Class 42.

576,097. Metal Graphite Bearings, Bushings, and Thrust Bearings of Washer Type. Bound Brook Oil-Less Bearing Company, Bound Brook, N. J.
Filed Aug. 29, 1952, Serial No. 634,627. Published Mar. 10, 1953. Class 23.

576,098. After Shave Lotion, a Deodorant, and a Hair Preparation. The Mennen Company, Newark, N. J.
Filed Aug. 29, 1952, Serial No. 634,649. Published Feb. 17, 1953. Class 51.

576,099. Pillows and Mattresses. The Dayton Rubber Company, Dayton, Ohio.
Filed Sept. 4, 1952, Serial No. 634,837. Published Mar. 31, 1953. Class 32.

576,100. Airplanes and Parts Therefor. The Cessna Aircraft Company, Wichita, Kans.
Filed Sept. 5, 1952, Serial No. 634,888. Published Mar. 31, 1953. Class 19.

576,101. Alcoholic Beverages—Namely, Whiskey. Hunter-Wilson Distilling Co. Inc., Bristol, Pa., and New York, N. Y.
Filed Sept. 5, 1952, Serial No. 634,900. Published Mar. 24, 1953. Class 49.

576,102. Paraphernalia for All Kinds of Athletic Contests—Namely, Basketballs, Soccerballs, Etc. MacGregor Sport Products, Inc., Cincinnati, Ohio.
Filed Sept. 6, 1952, Serial No. 634,945. Published Mar. 31, 1953. Class 22.

576,103. Lard. Swift & Company, Chicago, Ill.
Filed Sept. 8, 1952, Serial No. 635,004. Published Mar. 17, 1953. Class 46.

576,104. Automotive Clutches and Parts Thereof. The Cleveland Graphite Bronze Company, Cleveland, Ohio.
Filed Sept. 10, 1952, Serial No. 635,083. Published Mar. 31, 1953. Class 23.

576,105. Engine Parts—Namely, Bushings, Bearings, and Thrust Washers. The Cleveland Graphite Bronze Company, Cleveland, Ohio.
Filed Sept. 10, 1952, Serial No. 635,084. Published Mar. 31, 1953. Class 23.

576,106. Firecrackers and Fireworks. Li & Fung, Ltd., Hong Kong, China.
Filed Sept. 10, 1952, Serial No. 635,089. Published Mar. 24, 1953. Class 9.

576,107. Fertilizers. The Summers Fertilizer Company, Inc., Baltimore, Md.
Filed Sept. 11, 1952, Serial No. 635,152. Published Mar. 24, 1953. Class 10.

576,108. Piece Goods Made From Natural Fibers—Namely, Cotton, Wool, Silk, and Linen; Synthetic Fibers, and Combinations Thereof. Rice-Stix, Inc., St. Louis, Mo.
Filed Sept. 17, 1952, Serial No. 635,375. Published Mar. 31, 1953. Class 42.

576,109. Medicinal Hormone Preparation. Syntex Veterinary Products Co., Inc., New York, N. Y., now by change of name Foundation Laboratories, Inc.
Filed Sept. 18, 1952, Serial No. 635,444. Published Mar. 3, 1953. Class 18.

576,110. Medicinal Hormone Preparation. Syntex Veterinary Products Co., Inc., New York, N. Y., now by change of name Foundation Laboratories, Inc.
Filed Sept. 18, 1952, Serial No. 635,445. Published Mar. 3, 1953. Class 18.

576,111. Cutters and Holders Therefor for Lathes, Shapers, Etc. The O. K. Tool Company, Inc., Milford, N. H.
Filed Sept. 19, 1952, Serial No. 635,489. Published Mar. 31, 1953. Class 23.

576,112. Candy. Peter Paul, Inc., Naugatuck, Conn.
Filed Sept. 23, 1952, Serial No. 635,661. Published Mar. 17, 1953. Class 46.

576,113. Electrical Insulating Material in the Form of Resin-Impregnated and/or Coated Fibrous Material. The Arborite Company Limited, Town of La Salle, Quebec, Canada.
Filed Sept. 24, 1952, Serial No. 635,674. Published Mar. 24, 1953. Class 21.

576,114. Air Freshener Preparation. The Drackett Company, Cincinnati, Ohio.
Filed Sept. 25, 1952, Serial No. 635,746. Published Mar. 24, 1953. Class 6.

576,115. Live Bait Containers. Hugh C. N. McGee, Dry Ridge, Ky.
Filed Sept. 27, 1952, Serial No. 635,880. Published Mar. 31, 1953. Class 22.

576,116. Aldehydes, Alcohols, and Natural and Essential Oils Suitable for Perfuming Purposes. Charabot & Co., Inc., New York, N. Y.
Filed Sept. 30, 1952, Serial No. 635,951. Published Mar. 17, 1953. Class 6.

576,117. Frozen Food Products—Namely, Chicken Chop Suey, Shrimp Chop Suey, Eggs Foo Young, Shrimp Eggs Foo Young, Fried Rice, and Diced Vegetables With Chicken and Almonds. Bong-Fong, Inc., Los Angeles, Calif.
Filed Oct. 6, 1952, Serial No. 636,200. Published Mar. 24, 1953. Class 46.

576,118. Developers Consisting of a Mixture of Electroscopic Powder, Etc. The Haloid Company, Rochester, N. Y.
Filed Oct. 7, 1952, Serial No. 636,288. Published Mar. 17, 1953. Class 6.

576,119. Fresh Vegetables and Melons. Alex E. Engelman, El Centro, Calif.
Filed Oct. 11, 1952, Serial No. 636,516. Published Mar. 24, 1953. Class 46.

576,120. Refinisher for Leather. Mercury Chemical Corporation, Chicago, Ill.
Filed Oct. 17, 1952, Serial No. 636,792. Published Mar. 17, 1953. Class 6.

576,121. Polyhydroxy Alcohol-Fatty Acid Esters Sold to the Paint Making Trade as an Oil Soluble Non-Ionic Surface Acting Agent Adapted for Use as an Aid in Grinding and Mixing Pigments. Griffin Chemical Company, San Francisco, Calif.
Filed Oct. 21, 1952, Serial No. 636,930. Published Mar. 17, 1953. Class 6.

576,122. Heavy Metal Decontamination Compositions, Etc. William M. Stieh & Co. Inc., Teaneck, N. J.
Filed Oct. 24, 1952, Serial No. 637,153. Published Mar. 24, 1953. Class 6.

576,123. Dressed Turkeys and Turkey Meat. Henry Schmikler, doing business as White Holland Farm, Whitman, Mass.
Filed Oct. 29, 1952, Serial No. 637,335. Published Mar. 31, 1953. Class 46.

576,124. Fluxes. All-Sil Welding Metals, Inc., New York, N. Y.
Filed Nov. 28, 1952, Serial No. 638,682. Published Mar. 17, 1953. Class 6.

576,125. Dyes, Pigments, Water-Repellents, and Textile Treating Chemicals. Metro Dyestuff Corporation, West Warwick, R. I.
Filed Dec. 16, 1952, Serial No. 639,585. Published Mar. 17, 1953. Class 6.

576,126. Tantalum Oxide, Tantalum Carbide, Sodium Tungstate, Etc. Fansteel Metallurgical Corporation, North Chicago, Ill.
Filed Dec. 17, 1952, Serial No. 639,622. Published Mar. 24, 1953. Class 6.

576,127. Algaecides and Water Treating Compounds. Bernard Domogalla, doing business as applied Biochemists and Associates, Butler, Wis.
Filed Dec. 18, 1952, Serial No. 639,693. Published Mar. 24, 1953. Class 6.

576,128. Olives. Strohmeyer & Arpe Company, New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,237. Published Mar. 24, 1953. Class 46.

576,129. Macaroni Shells; Ready-Cut Spaghetti, Etc. The Creamette Company, Minneapolis, Minn.
Filed Jan. 14, 1953, Serial No. 640,728. Published Mar. 24, 1953. Class 46.

Service Marks

576,130. Fur and Garment Cleaning and Storage Services. Walter Haertel Company, Minneapolis, Minn.
Filed May 22, 1948, Serial No. 557,605. Published Sept. 26, 1950. Class 103.

576,131. Fur and Garment Cleaning and Storage Services. Walter Haertel Company, Minneapolis, Minn.
Filed May 22, 1948, Serial No. 557,606. Published Oct. 10, 1950. Class 103.

576,132. Haircutting, Shampooing, Rinsing, Bleaching, and Dyeing Hair, Etc. Charles of The Ritz Operating Corporation, New York, Manhasset, and White Plains, N. Y., and East Orange, N. J., and elsewhere.
Filed Sept. 21, 1950, Serial No. 603,835. Published Mar. 31, 1953. Class 100.

576,133. Promoting Interest in Religion and the Bible Through the Medium of Radio Broadcast Programs. Reverend Theodore Epp, Lincoln, Nebr.
Filed Nov. 6, 1951, Serial No. 620,987. Published Mar. 31, 1953. Class 100.

576,134. Copper Brazing of Steel Parts of Others for the Purpose of Joining Said Parts Together. The Metal Electric Processing Company, Toledo, Ohio.
Filed Nov. 9, 1951, Serial No. 621,076. Published Mar. 31, 1953. Class 106.

576,135. Auto Driver Training. Easy Method Auto Driver Training School Inc., Washington, D. C.
Filed Apr. 25, 1952, Serial No. 628,681. Published Mar. 31, 1953. Class 107.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

576,136. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Lamson and Goodnow Manufacturing Company, Shelburne Falls, Mass. Original filed, act of 1946, Principal Register, Sept. 13, 1947; amended to application, Supplemental Register, Dec. 31, 1952, Serial No. 534,452.

Lamson

Applicant claims ownership of Registration No. 131,528.
For Butchers', Bakers', Druggists', and Painters' Tools—Namely, Artists' Knives, Asparagus-Knives, Butcher-Knives, Banana-Knives, Bread-Knives, Boning-Knives, Butter-Knives, Beet-Knives, Bowie-Knives, Bolo-Knives, Bakers' Knives, Clam-Knives, Cheese-Knives, Cigar-Knives, Cane-Knives, Cotton-Knives, Carving-Knives, Cooks' Knives, Druggists' Knives, Fish-Knives, Fruit-Knives, Hack-Knives, Hunting-Knives, Ink-Knives, Lemon-Knives, Mixing-Knives, Machetes, Orange-Knives, Oil-Cloth Knives, Oyster-Knives, Paring-Knives, Painters' Knives, Paper-Knives, Pill-Knives, Pie-Knives, Putty-Knives, Rubber-Knives, Sailmakers' Knives, Spruce-Knives, Skinning-Knives, Sticking-Knives, Steak-Knives, Slicing-Knives, Sabatier-Knives, Shoe-Knives, Spatulas, Sandwich Spreaders, Table-Knives, Tobacco-Knives, Thread-Knives, Vienna Knives, Carving-Forks, Pot-Forks, Roast-Forks, Table-Forks, Butcher-Steels, Table-Steels, and Carver-Steels.
Claims use since June 19, 1947.

576,137. (Class 28. Jewelry and Precious-Metal Ware.) Amston Silver Company, Inc., Amston, Conn., assignor to The Ellmore Silver Co., Inc., a corporation of Connecticut. Original filed, act of 1946, Principal Register, Feb. 11, 1949; amended to application, Supplemental Register, Sept. 20, 1952, Serial No. 573,701.

GEORGIAN BEAD

For Sterling Silver Flatware.
Claims use since Nov. 5, 1948.

576,138. (Class 46. Foods and Ingredients of Foods.) Gregor Chocolates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 7, 1940; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 578,389.

Gregor

For Candy.
Claims use since March 1949.

576,139. (Class 1. Raw or Partly Prepared Materials.) M. Goldfarb—My Florist Inc., New York, N. Y., and elsewhere in the United States. Original filed, act of 1946, Principal Register, Dec. 30, 1949; amended to application, Supplemental Register, Aug. 11, 1952, Serial No. 590,152.

Star of Bethlehem (CHIN-CHER-IN-CHEE)

No claim is made to "Star of Bethlehem" or the equivalent "Chin-Cher-in-Chee" apart from the mark as shown.
For Flowers and Plants.
Claims use since Jan. 16, 1947.

576,140. (Class 26. Measuring and Scientific Appliances.) Andrew J. Mulaby, doing business as U. S. Optical Company, New York, N. Y. Original filed, act of 1946, Principal Register, May 25, 1950; amended to application, Supplemental Register, Feb. 6, 1952, Serial No. 598,087.

Glare-Ban

For Sun-Glasses.
Claims use since May 1, 1949.

576,141. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Wilbur Curtis Company, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 3, 1950; amended to application, Supplemental Register, Apr. 15, 1953, Serial No. 600,164.

"Moisture Seal"

For Glass Vacuum Coffee Makers.
Claims use since Sept. 18, 1948.

576,142. (Class 52. Detergents and Soaps.) Grace-Lee Products Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, July 14, 1950; amended to application, Supplemental Register, Sept. 23, 1952, Serial No. 600,668.

PH D SURGICAL

For Antiseptic Soap.
Claims use since Mar. 29, 1950.

576,143. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Babson Bros. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 14, 1950; amended to application, Supplemental Register, Mar. 16, 1953, Serial No. 606,360.

SIPHON

For Milking Apparatus, Comprising a Mechanical Milking Unit and Conduit Means for Delivering the Milk to a Container or the Like.
Claims use since Aug. 17, 1950.

576,144. (Class 2. Receptacles.) Vogue Products Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Nov. 24, 1950; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 606,914.

Flatware Caddy

The word "Flatware" is disclaimed apart from the mark as shown.
For Plastic Tray for Flat Silverware and the Like.
Claims use since Nov. 22, 1949.

576,145. (Class 6. Chemicals and Chemical Compositions.) Geigy Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 7, 1950; amended to application, Supplemental Register, Apr. 27, 1953, Serial No. 607,382.

SPUD

For Insecticide.
Claims use since Apr. 27, 1948.

576,146. (Class 52. Detergents and Soaps.) Suds-All Company, Inc., Evanston, Ill. Original filed, act of 1946, Principal Register, Dec. 9, 1950; amended to application, Supplemental Register, Apr. 2, 1953, Serial No. 607,524.

SAFETY-SUDS

For Soap for Laundry, Home, and Household Use, and for Sudsing Cleaner and Detergent for Use in the Household.
Claims use since Oct. 25, 1950.

576,147. (Class 19. Vehicles.) Morrison Steel Products Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Mar. 23, 1951; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 611,711.

MORRISON Carry-All

For Utility Truck Body for Carrying Cargo and Service Equipment.
Claims use since May 3, 1950.

576,148. (Class 4. Abrasives and Polishing Materials.) The Carborundum Company, Niagara Falls, N. Y. Original filed, act of 1946, Principal Register, Mar. 27, 1951; amended to application, Supplemental Register, Mar. 4, 1953, Serial No. 611,828.

Red-I-Cut

For Sheet Material Coated With Abrasive Grains.
Claims use since Jan. 22, 1951.

576,149. (Class 26. Measuring and Scientific Appliances.) Edward J. Epsen, doing business under the name Colorvue Screen Company, Omaha, Nebr. Original filed, act of 1946, Principal Register, July 25, 1951; amended to application, Supplemental Register, Dec. 31, 1952, Serial No. 616,906.

COLORVUE

For Multicolor Filter Screen Which Is Placed Over the Face of a Black and White Television Tube To Give the Illusion of Color Television.
Claims use since June 15, 1951.

576,150. (Class 29. Brooms, Brushes, and Dusters.) See-Teeth Products, Inc., San Diego, Calif. Original filed, act of 1946, Principal Register, Sept. 8, 1951; amended to application, Supplemental Register, July 11, 1952, Serial No. 618,555.

SEE-TEETH

For Tooth Brushes.
Claims use since May 1, 1951.

576,151. (Class 19. Vehicles.) Monroe Arnold Lerman, Long Island City, N. Y. Original filed, act of 1946, Principal Register, Oct. 27, 1951; amended to application, Supplemental Register, Oct. 2, 1952, Serial No. 620,546.

ARNOLD HANDICAP CONTROL

For Combination Hand Brake and Throttle Control for Automobiles Driven by Handicapped Persons Who Do Not Have the Use of Their Legs.
Claims use since July 1951.

576,152. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Markwell Manufacturing Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 19, 1952; amended to application, Supplemental Register, Mar. 26, 1953, Serial No. 623,803.

SUPER

For Hand-Operated Stapling Machines Used for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal Together, and Also for Fastening Papers, Cardboard, Fabrics, and light Gauge Metal on to Wood.
Claims use since Jan. 9, 1952.

576,153. (Class 22. Games, Toys, and Sporting Goods.) Edcraft Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 28, 1952; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 624,188.

WEAVE-O-GRAM

For Picture Puzzles in Which Portions of Pictures Printed on Movable Tapes Are Brought Into Registration With One Another.
Claims use since December 12, 1951.

576,154. (Class 27. Horological Instruments.) Theo. R. Schwahn, Lancaster, Pa. Original filed, act of 1946, Principal Register, Feb. 6, 1952; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 624,612.

DIALS by SCHWAHN

For Watch Dials, Hands, and Numerals.
Claims use since Mar. 1, 1951.

576,155. (Class 6. Chemicals and Chemical Compositions.) Lorenzo Johnson, doing business as Johnson's Nox-Static Labs, Dallas, Tex. Original filed, act of 1946, Principal Register, Feb. 15, 1952; amended to application, Supplemental Register, Jan. 30, 1953, Serial No. 625,014.

Nox-Static

For Chemical Preparation in Liquid Form Having Properties Adapted To Remove Static Electricity From Plastic Seat Covers.
Claims use since Dec. 20, 1951.

576,156. (Class 6. Chemicals and Chemical Compositions.) Mallinckrodt Chemical Works, St. Louis, Mo. Original filed, act of 1946, Principal Register, May 8, 1952; amended to application, Supplemental Register, Apr. 1, 1953, Serial No. 629,374.

TUFTOP

For Light-Sensitive, Acid-Resistant Coating for Use by Photoengravers.
Claims use since Mar. 26, 1952.

576,157. (Class 33. Glassware.) Cardinal China Co., Carteret, N. J. Original filed, act of 1946, Principal Register, June 20, 1952; amended to application, Supplemental Register, Apr. 1, 1953, Serial No. 631,465.

Shrimpboat

For Glass Dishes for Hors d'Oeuvres.
Claims use since February 1952.

576,158. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Howard Andrew Johansen, doing business under the firm name of Howard's Automotive and Racing Cams, Los Angeles, Calif. Filed Aug. 5, 1952, Serial No. 633,493.

Howard

For Reground Cam Shafts.
Claims use since July 1, 1946.

576,159. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Continental Screw Company, New Bedford, Mass. Original filed, act of 1946, Principal Register, Sept. 2, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 634,733.

You can count on Continental

Applicant claims ownership of Registration No. 414,317.
For Screws of the Following Nature—Wood, Lag, Cap, Drive, Side, Knob, Machine, Lock Cap, Washer Head, Socket Head, Hardened Thread-Forming Sheet Metal, Thumb and Set; Bolts of the Following Nature—Hook, Sink, Stove, Hanger, Fin Head, Meter, Carriage, Machine, Closet, and Step; Nuts of the Following Nature—Machine Screw (Hexagon, Square), Stove Bolt, Wing, Cap (Acorn); Threaded Rods of the Following Nature—Stove, Chair, and Ladder; Rivets of the Following Nature—Solid and Tubular; and Also Escutcheon Pins and Knurled Pins.
Claims use since Sept. 1, 1951.

576,160. (Class 46. Foods and Ingredients of Foods.) Western Condensing Company, San Francisco, Calif. Original filed, act of 1946, Principal Register, Sept. 22, 1952; amended to application, Supplemental Register, Mar. 30, 1953, Serial No. 635,617.

Peebles 55

The color lining in the drawing is intended to indicate the color orange. Applicant claims ownership of Registrations Nos. 349,180, 347,694, and others.
For Dried Whey Particularly Useful as a Hog Food Additive.
Claims use since on or about Feb. 10, 1951.

576,161. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Imperial Knife Company, Inc., Providence, R. I. Original filed, act of 1946, Principal Register, Oct. 11, 1952; amended to application, Supplemental Register, Apr. 7, 1953, Serial No. 636,528.

PROVIDENCE

For Flatware of Base Metal Comprising Table Knives, Forks and Spoons.
Claims use since September 1949.

576,162. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Pippin Construction Equipment, Inc., Hartford and White River Junction, Vt. Original filed, act of 1946, Principal Register, Dec. 6, 1952; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 639,143.

It's a PIPPIN

For Back Hoe Digger Attachments for Tractors.
Claims use since Aug. 18, 1951.

576,163. (Class 4. Abrasives and Polishing Materials.) S. C. Johnson & Son, Inc., Racine, Wis. Filed Jan. 14, 1953, Serial No. 640,317.

HARD GLOSS

For Liquid Polish for Floors.
Claims use since Apr. 30, 1951.

Service Marks

576,164. (Class 100. Miscellaneous.) Latil Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 15, 1947; amended to application, Supplemental Register, Dec. 20, 1952, Serial No. 534,536.

LATIL

For Technical or Engineering Services—Namely, the Designing of Automotive Vehicles, Automotive Tractors, Automotive Trailers, Washing Machine, Electrical Illuminating Equipment, Laundry Equipment and Parts for the Above Named Machines and the Adapting of Standard Designs of the Above Machines To Meet Special Requirements.
Claims use since May 14, 1945.

576,165. (Class 106. Material Treatment.) R. A. Goudie & Sons, Providence, R. I. Original filed, act of 1946, Principal Register, Oct. 20, 1950; amended to application, Supplemental Register, July 7, 1952, Serial No. 605,213.

R. A. GOUDIE & SONS Textile Engravers

The words "Roll Chromium Platers" and "Textile Engravers" are disclaimed.
For Engraving Designs on Textile Rolls and Chrome Plating the Designs on the Rolls.
Claims use since November 1949.

376,166. (Class 102. Insurance and Financial.) Foreman Brothers, Fresno, Calif. Filed Apr. 23, 1951, Serial No. 612,998.

FOREMAN BROTHERS

For Real Estate Brokerage.
Claims use since March 1947.

376,167. (Class 107. Education and Entertainment.) Herbert Dautrich, Stony Creek Mills, Pa. Original filed, act of 1946, Principal Register, Oct. 30, 1951; amended to application, Supplemental Register, Feb. 27, 1953, Serial No. 620,665.

OLEY VALLEY HOE-DOWNERS

For Entertainment Service in Performing Barn Dances, Square Dances and Hoe-Down Dances on Stage and Television Broadcast Programs.
Claims use since July 4, 1949.

376,168. (Class 106. Material Treatment.) Hull Dye Works, Derby, Conn. Original filed, act of 1946, Principal Register, July 23, 1952; amended to application, Supplemental Register, Dec. 23, 1952, Serial No. 632,940.

Hull Fast

For Dyeing and Finishing Fabrics To Make Them Washable and Crease Resistant.
Claims use since September 1950.

376,169. (Class 105. Transportation and Storage.) Mohawk Motor Lines, Inc., Nashville, Tenn. Filed Nov. 12, 1952, Serial No. 637,933.

COMPARTMENTALIZED

For Transportation of Freight by Motor-Van.
Claims use since July 18, 1949.

TRADE-MARK REGISTRATIONS RENEWED

40,948. REPRESENTATION OF SHIELD WITH BAND ACROSS. Registered Aug. 18, 1903. Wm. J. Lemp Brewing Co. Re-renewed Aug. 18, 1953, to Falstaff Brewing Corporation, St. Louis, Mo., a corporation of Delaware. Beer. Class 48.

40,949. OUTLINE OF SHIELD. Registered Aug. 18, 1903. Wm. J. Lemp Brewing Co. Re-renewed Aug. 18, 1953, to Falstaff Brewing Corporation, St. Louis, Mo., a corporation of Delaware. Beer. Class 48.

90,325. "EMPRESS MILLS" ETC. AND DESIGN. Registered Feb. 18, 1913. Gribbon, Lange & Steven, New York, N. Y. Re-renewed Feb. 18, 1953, to Erwin Mills, Inc., Durham, N. C., a corporation of North Carolina. Cotton Piece Goods. Class 42.

90,619. LEECH. Registered Mar. 11, 1913. American Hominy Company, Indianapolis, Ind. Re-renewed Mar. 11, 1953, to Decatur Milling Company, Inc., Decatur, Ill., a corporation of Indiana. Corn-Product Adhesive Paste. Class 5.

90,874. REPRESENTATION OF THREE POINTED STAR. Registered Apr. 1, 1913. Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany. Re-renewed Apr. 1, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a corporation organized under the laws of Germany. Electric Motors, Ignition-Batteries, Accumulators, Transformers, Inductors, Magnets, Etc. Class 21.

90,986. "KASENIT" AND DESIGN. Registered Apr. 8, 1913. Edward Meredith Griffiths. Re-renewed Apr. 8, 1953, to Kasenit Limited, London, England, a corporation organized under the laws of the Kingdom of Great Britain and Northern Ireland. Chemical Case-Hardening Material. Class 6.

91,855. REPRESENTATION OF THREE POINTED STAR. Registered June 3, 1913. Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany. Re-renewed June 3, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a corporation organized under the laws of Germany. Machinery Castings, Anchors, Bed-Plates, Iron, Steel, Brass, Copper, and Silver Wire, Etc. Class 14.

91,863. DREADNOUGHT. Registered June 3, 1913. Halcomb Steel Company, Syracuse, N. Y. Re-renewed June 13, 1953, to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey. Crucible-Steel, Electric Steel, and High-Speed Steel. Class 14.

92,115. SAL-ETHYL. Registered June 17, 1913. Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Re-renewed June 17, 1953. Remedy for Rheumatic Affections. Class 18.

92,139. "POLLY PRIM" ETC. AND DESIGN. Registered June 17, 1913. Stetson & Ellison Co., Camden, Del., and New York, N. Y. Re-renewed June 17, 1953, to Stetson and Ellison Company, Chicago, Ill., a corporation of Delaware. Canned Vegetables. Class 46.

92,150. REPRESENTATION OF STATUE OF LIBERTY. Registered June 17, 1913. Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Re-renewed June 17, 1953, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York. Snap-Buttons Used as Garment-Fasteners. Class 40.

92,217. HOBART. Registered June 24, 1913. The Hobart Electric Mfg. Co. Re-renewed June 24, 1953, to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio. Electric Coffee-Mills, Electric Meat-Choppers, Electric Bone-Grinders, and Electric Tool-Grinders. Class 21.

92,281. X. Registered June 24, 1913. Spratt's Patent Limited, London, England, a corporation organized under the laws of the Kingdom of Great Britain. Renewed June 24, 1953. Biscuits for Dogs, Cats, Game, Poultry, and Other Animals. Class 46.

92,838. SEMDAC. Registered July 29, 1913. Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Re-renewed July 29, 1953. Polish or Gloss for Cleaning, Brightening, and Polishing All Kinds of Furniture and Finished Woodwork. Class 4.

92,905. NEPRO. Registered Aug. 5, 1913. New Process Cork Company, New York, N. Y. Re-renewed Aug. 5, 1953, to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York. Cork Disks and Washers. Class 50.

93,081. REPRESENTATION OF THREE POINTED STAR. Registered Aug. 19, 1913. Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany. Re-renewed Aug. 19, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a corporation organized under the laws of Germany. Hammers, Chisels, Spanners, Screw-Drivers, Boring-Braces, Screw-Jacks, Punches, Etc. Class 23.

93,084. RAVELEDGE. Registered Aug. 19, 1913. Eaton, Crane & Pike Company, Pittsfield, Mass. Re-renewed Aug. 19, 1953, to Crane & Co. Inc., Dalton, Mass., a corporation of Massachusetts. Writing-Paper, Printing-Paper, Envelopes, Etc. Class 37.

93,127. REPRESENTATION OF WORD "SINGER" PRINTED IN RUSSIAN LETTERS. Registered Aug. 19, 1913. The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Re-renewed Aug. 19, 1953. Family and Manufacturing Sewing-Machines, Parts Thereof, Etc. Class 23.

93,128. S. Registered Aug. 19, 1913. The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Re-renewed Aug. 19, 1953. Sewing-Machine Needles. Class 23.

296,499. BUCCOSPERIN. Registered Aug. 9, 1932. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, Germany. Renewed Aug. 9, 1952, to Conrad Charley Notter, doing business as Dr. Rudolf Reiss Chemische Werke, Berlin, Germany. Medicines for the Treatment of Venereal Diseases and for the Treatment of Lower Abdominal Diseases Generally. Class 18.

298,731. EXCLUD. Registered Nov. 1, 1932. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, Germany. Renewed Nov. 1, 1952, to Conrad Charley Notter, doing business as Dr. Rudolf Reiss Chemische Werke, Berlin, Germany. Suppositories, Medicines Against Spasms of All Kinds, Colics, Tenesmus of the Bladder and Urethra, Etc. Class 18.

299,413. "WITHERBEE" AND REPRESENTATION OF BEE. Registered Dec. 6, 1932. Witherbee Storage Battery Co. Inc., Belleville, N. J. Renewed Dec. 6, 1952, to Price Battery Corporation, doing business as Witherbee Storage Battery Co., Hamburg, Pa., a corporation of Pennsylvania. Storage Batteries. Class 21.

299,627. LINTELLA. Registered Dec. 13, 1932. American Bemberg Corporation. Renewed Dec. 13, 1952, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York. Fabrics Made Wholly or Partially of Artificial Silk. Class 42.

300,366. "INDUSTAL" WITH HEAVY UNDERLINE. Registered Jan. 17, 1933. Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Renewed Jan. 17, 1953. Asbestos-Cement Product Made in Corrugated Sheet Form Especially Adapted for Roofings, Sidings, and Partitions. Class 12.

301,170. "MILK-E-" ETC. Registered Feb. 21, 1933. S. & S. Cone Corporation, New York, N. Y., a corporation of New York. Renewed Feb. 21, 1953. Ice Cream Cones. Class 46.

301,329. LEADWAY. Registered Feb. 28, 1933. The Leadway Stores Corporation, Wilmington, Del. Renewed Feb. 28, 1953, to Leadway Stores Corporation, San Francisco, Calif., a corporation of Delaware. Canned Fruits. Class 46.

301,353. VAN MOOR. Registered Feb. 28, 1933. Scruggs-Vandervoort-Barney Dry Goods Company. Renewed Feb. 28, 1953, to Scruggs-Vandervoort-Barney, Inc., St. Louis, Mo., a corporation of Missouri. Ladies' Shoes Made of One or a Combination of One or More of the Following Materials: Leather, Etc. Class 39.

301,442. HANDIES. Registered Feb. 28, 1933. Veldown Company, Inc., New York, N. Y. Renewed Feb. 28, 1953, to Marinette Paper Company, Marinette, Wis., a corporation of Wisconsin. Cleansing Tissue. Class 37.

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301,483. "PERKINS" ETC. AND DESIGN. Registered Mar. 7, 1933. Minot, Hooper & Co., New York, N. Y. Renewed Mar. 7, 1953, to Textron Incorporated, Providence, R. I., a corporation of Rhode Island. Finished Pillow Cases. Class 42.

301,485. "PERKINS SHEETS" ETC. AND DESIGN. Registered Mar. 7, 1933. Minot, Hooper & Co., New York, N. Y. Renewed Mar. 7, 1953, to Textron Incorporated, Providence, R. I., a corporation of Rhode Island. Finished Sheets. Class 42.

301,519. CHEROKEE. Registered Mar. 7, 1933. The J. B. Ford Company. Renewed Mar. 7, 1953, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan. Cleaning Compound With Incidental Water-Softening Properties. Class 52.

301,576. GILBERT. Registered Mar. 7, 1933. The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland. Renewed Mar. 7, 1953., Electric Fans, Electric Beverage Mixers, Electric Motors, Electric Switches, Rheostats, Etc. Class 21.

301,592. REPRESENTATION OF PIPE, ETC. Registered Mar. 7, 1933. Kaufmann Bros. & Bondy, Inc. Renewed Mar. 7, 1953, to The Reiss-Premier Corporation, West New York, N. J., a corporation of New Jersey. Pipes. Class 8.

301,723. "PIEUX FRANKI" AND DESIGN. Registered Mar. 14, 1933. Compagnie Internationale Des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium, a corporation organized under the laws of Belgium. Renewed Mar. 14, 1953. Machines for the Manufacture of Concrete, Such as Steam Rollers, Crushers, Transporters, Etc. Class 23.

301,822. PROTEK. Registered Mar. 14, 1933. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Renewed Mar. 14, 1953. Paste Used for Pasting Paper to Enameled and the Like Surfaces. Class 5.

301,882. FLIGHT. Registered Mar. 21, 1933. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware. Renewed Mar. 21, 1953. Lubricating Oils. Class 15.

301,937. "JE REVIENS." Registered Mar. 21, 1933. Societe Worth, Paris, France. Renewed Mar. 21, 1953, to Les Parfums Worth de Paris, Inc., New York, N. Y., a corporation of New York. Perfumes. Class 51.

302,126. GILBERT. Registered Mar. 28, 1933. The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland. Renewed Mar. 28, 1953. Electrical Vibrators for Therapeutical Use and Electric Hairdryers. Class 44.

302,130. NAMICO. Registered Mar. 28, 1933. National Milling and Chemical Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 28, 1953. Soap Compound, Soap for Laundry Use, Soap for Textile Trade, and an Abrasive and Scouring Detergent. Class 4.

302,205. THE STYLOCRAT. Registered Apr. 4, 1933. The Kaynee Company, Cleveland, Ohio, a corporation of Ohio. Renewed Apr. 4, 1953. Boys' Shirts. Class 39.

302,411. "SKOOT" AND DESIGN. Registered Apr. 18, 1933. The Skoot Company, Hamilton and Dayton, Ohio. Renewed Apr. 18, 1953, to James B. Hughes, doing business as The Skoot Company, Hamilton, Ohio. Liniment. Class 18.

302,738. GREAT SCOTT. Registered Apr. 25, 1933. J. G. Turney & Son Limited, London, England, a limited liability company registered under the laws of Great Britain. Renewed Apr. 25, 1953. Whisky, Rum, Gin, and Brandy. Class 49.

302,877. ADJUST-O-MATIC. Registered May 2, 1933. Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Renewed May 2, 1953, to Westinghouse Electric Corporation, Mansfield, Ohio, a corporation of Pennsylvania. Electric Sadirons. Class 21.

303,011. RED CAP. Registered May 9, 1933. Euclid Candy Company of California, Inc., San Francisco, Calif., a corporation of California. Renewed May 9, 1953. Candy. Class 46.

303,041. FEATHERTOUCH. Registered May 9, 1933. W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware. Renewed May 9, 1953. Pens. Class 37.

303,129. VISSOLVER. Registered May 9, 1933. Baker Perkins Company, Inc. Renewed May 9, 1953, to Baker Perkins Inc., Saginaw, Mich., a corporation of New York. Machines for Dissolving Cellulose Xanthate in Dilute Sodium Hydroxide Solution To Produce Viscose Used in the Manufacture of Artificial Silks, Films, Etc. Class 23.

303,133. LEADWAY. Registered May 9, 1933. The Leadway Stores Corporation, Wilmington, Del. Renewed May 9, 1953, to Leadway Stores Corporation, San Francisco, Calif., a corporation of Delaware. Salad Dressing, Vinegar, Canned Vegetables—Namely, Canned Corn, Canned Tomatoes, and Canned Peas; Etc. Class 46.

303,257. REPRESENTATION OF MUSIC STAND AND DESIGN. Registered May 16, 1933. Slater, Rodger & Company, Limited, Glasgow, Scotland, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed May 16, 1953. Whisky. Class 49.

303,268. "KESTER" AND DESIGN. Registered May 16, 1933. Kester Solder Company, Chicago, Ill., a corporation of Illinois. Renewed May 16, 1953. Solder. Class 14.

303,273. KOHLER. Registered May 16, 1933. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Renewed May 16, 1953. Heating Boilers and Radiators. Class 34.

303,279. "KESTER" AND DESIGN. Registered May 16, 1933. Kester Solder Company, Chicago, Ill., a corporation of Illinois. Renewed May 16, 1953. Solder. Class 14.

303,321. "WAK" AND DESIGN. Registered May 23, 1933. Wak Incorporated. Renewed May 23, 1953, to Woodford A. Kennedy, doing business as Wak Industries, Charlotte, N. C. Pick Counters for Textile Machines and Revolution Recording Devices. Class 26.

303,556. TANKOTROL. Registered May 30, 1933. The Cleveland Heater Company, Cleveland, Ohio, a corporation of Ohio. Renewed May 30, 1953. Gas Water Heaters and Their Structural Parts. Class 34.

303,565. "JE REVIENS" ETC. AND REPRESENTATION OF CONTAINER. Registered May 30, 1933. Societe Worth, Paris, France. Renewed May 30, 1953, to Les Parfums Worth de Paris, Inc., New York, N. Y., a corporation of New York. Perfumes. Class 51.

303,807. "PHARMCO" AND DESIGN. Registered June 6, 1933. Publicker Commercial Alcohol Company. Renewed June 6, 1953, to Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania. Pure Grain Alcohol. Class 49.

304,081. "KESTER" AND DESIGN. Registered June 20, 1933. Kester Solder Company, Chicago, Ill., a corporation of Illinois. Renewed June 20, 1953. Soldering Fluxes. Class 6.

304,186. THE CANDY KETTLE. Registered June 27, 1933. Corn Products Refining Company, New York, N. Y., a corporation of New Jersey. Renewed June 27, 1953. Monthly Publication. Class 38.

304,230. BONOIL. Registered June 27, 1933. Stefano Crisafulli, New York, N. Y. Renewed June 27, 1953, to Bonoil Packing Corporation, Brooklyn, N. Y., a corporation of New York. Olive Oil. Class 46.

304,491. ALL AMERICAN. Registered July 11, 1933. Comfort Manufacturing Company, Chicago, Ill., a corporation of Illinois. Renewed July 11, 1953. Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cleansing Creams, Obesity Creams, Etc. Class 51.

304,567. NOX-KWIK LINIMENT. Registered July 11, 1933. Nox-Kwit Company, Baltimore, Md., a firm. Renewed July 11, 1953. Liniment for the Treatment of External Irritations, Muscular Soreness, Bruises, Sprains, Etc. Class 18.

304,738. LOHM. Registered July 18, 1933. Driver-Harris Company, Harrison, N. J., a corporation of New Jersey. Renewed July 18, 1953. Wire Especially Adapted for Electrical Purposes. Class 21.

304,741. MIDOHM. Registered July 18, 1933. Driver-Harris Company, Harrison, N. J., a corporation of New Jersey. Renewed July 18, 1953. Wire Especially Adapted for Electrical Purposes. Class 21.

304,797. ENGRAVATONE. Registered July 18, 1933. Oxford Paper Company, New York, N. Y., a corporation of Maine. Renewed July 18, 1953. Paper for Printing. Class 37.

305,157. "CAMPBELL'S WHITE HEATHER" ETC. AND DESIGN. Registered Aug. 8, 1933. S. Campbell & Son Limited. Renewed Aug. 8, 1953, to Campbells (Distillery) Limited, Glasgow, Scotland, a limited liability company registered under the laws of Great Britain. Scotch Whisky. Class 49.

305,166. "EVERLASTING" ETC. AND DESIGN LINED FOR GOLD AND GREEN. Registered Aug. 8, 1933. Franklin Textile Corporation, New York, N. Y., a corporation of New York. Renewed Aug. 8, 1953. Sheets, Pillow-Cases and Sheeting. Class 42.

305,286. "EVERLASTING" AND DESIGN LINED FOR GOLD AND GREEN. Registered Aug. 8, 1933. Franklin Textile Corporation, New York, N. Y., a corporation of New York. Renewed Aug. 8, 1953. Cotton Fabrics, Towels, Pillow Cases, Sheets, Bed Spreads and Sheetings. Class 42.

305,633. TILDA. Registered Aug. 22, 1933. Botany Worsted Mills. Renewed Aug. 22, 1953, to Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey. Textile Fabrics in the Piece Made of Wool. Class 42.

305,672. PARKETTE. Registered Aug. 22, 1933. The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin. Renewed Aug. 22, 1953. Fountain Pens, Mechanical Pencils and Desk Sets. Class 37.

305,003. "GLASS KEG BRAND" AND REPRESENTATION OF CONTAINER. Registered Aug. 29, 1933. Laird & Co., Inc., Eatontown, N. J. Renewed Aug. 29, 1953, to Laird & Co., Inc., Scobeyville, N. J., a corporation of New Jersey. Vinegar. Class 46.

305,918. GIRBS. Registered Aug. 29, 1933. Gibbs & Company, Incorporated, Baltimore, Md., a corporation of Maryland. Renewed Aug. 29, 1953. Canned Vegetables, Canned Fruits, Canned Hominy, Canned Sauerkraut, Canned Berries, Etc. Class 46.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

321,034. MICRONIZED. Registered Jan. 15, 1935. International Pulverising Corporation, Camden, N. J. Pulverized Limestone, Sold as an Ingredient of Paint. Class 16. Canceled May 1, 1953. Canc. No. 5492.

322,638. OLD DUTCH. Registered Mar. 12, 1935. Spitzer Bros., Inc., New York, N. Y. Wines. Class 47. Canceled May 1, 1953. Canc. No. 5527.

323,734 MICRONIZED. Registered Apr. 30, 1935. International Pulverizing Corporation, Camden, N. J. Pulverized Carbons, Etc. Class 1. Canceled May 1, 1953. Canc. No. 5491.

335,219. AUTO-NAPS. Registered May 26, 1936. The Menasha Products Company, Menasha, Wis. Paper Napkins. Class 37. Canceled May 15, 1953. Canc. No. 6022.

338,716. DISPENS-A-NAP. Registered Sept. 15, 1936. Menasha Products Company, Menasha, Wis. Paper Napkins in Cartons. Class 37. Canceled May 15, 1953. Canc. No. 6023.

355,363. "BUTTERFLY PIANO" AND DESIGN. Registered Mar. 15, 1938. The Rudolph Wurlitzer Company, De Kalb, Ill. Pianos. Class 36. Canceled Apr. 21, 1953. Sec. 7(d).

373,434. JOHNSON & JOHNSON. Registered Dec. 5, 1939. Simon Weiner, New York, N. Y. Shoes Made of Leather, Rubber, Etc. Class 39. Canceled May 1, 1953. Canc. No. 5541.

430,686. DREXEL. Registered June 17, 1947. Riverside & Dan River Cotton Mills, Inc., Danville, Va., now by change of name to Dan River Mills, Incorporated. Sheets, Sheeting and Pillowcases. Class 42. Canceled Apr. 21, 1953. Sec. 7(d).

508,868. CHRISTIAN DIOR. Registered Apr. 19, 1949. "Parfums Christian Dior," Paris, Seine, France. Face and Body Creams, Etc. Class 51 (formerly Class 6). Canceled Apr. 21, 1953. Sec. 7(d).

524,333. RIB LAKE. Registered Apr. 25, 1950. Fisher Dairy and Cheese Company, Wapakoneta, Ohio. Cheese. Class 46. Canceled Apr. 24, 1953. Canc. No. 6006.

525,912. RIB LAKE. Registered June 6, 1950. Fisher Dairy and Cheese Company, Wapakoneta, Ohio. Cheese. Class 46. Canceled Apr. 24, 1953. Canc. No. 6006.

526,460. STRATTON HYDRO CRANE. Registered June 13, 1950. Stratton Equipment Company, Cleveland, Ohio. Floor Cranes. Class 23. Canceled Apr. 28, 1953. Sec. 7(d).

528,275. DIORAMA. Registered Aug. 1, 1950. Societe a Responsabilite Limitee Parfums Christian Dior, Paris, France. Perfumes, Toilet Waters, Etc. Class 51. Canceled Apr. 21, 1953. Sec. 7(d).

541,240. SNIP-OFF. Registered Apr. 17, 1951. The Davidson Brothers Corp., New York, N. Y. Ladies' and Misses' Slips and Nightgowns. Class 39. Canceled May 1, 1953. Canc. No. 5750.

549,726. "STEIN-TEX" AND DESIGN. Registered Oct. 16, 1951. Stein-Tex, Inc., New York, N. Y. Cotton Piece Goods. Class 42. Canceled Apr. 24, 1953. Canc. No. 5831.

558,126. "McRAE" AND DESIGN. Registered Apr. 22, 1952. Irving Singer, New York, N. Y. Men's Hats. Class 39. Canceled May 8, 1953. Canc. No. 5897.

559,999. "THE BELL ANSWERING SYSTEM" AND DESIGN. Registered June 10, 1952. The Bell Answering System, Washington, D. C. Telephone Answering Service and Mail Address Service. Class 101. Canceled Apr. 29, 1953. Sec. 7(d).

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

356,773. "BC" AND DESIGN. Registered May 10, 1938. American Colloid Co., Chicago, Ill. Finely Divided Bentonite. Class 1. Corrected as follows: In the certificate, line 4; and in the statement, line 2, "Illinois" should be *South Dakota*.

356,774. "KWK" AND DESIGN. Registered May 10, 1938. American Colloid Co., Chicago, Ill. Finely Divided Bentonite. Class 1. Corrected as follows: In the certificate, line 4; and in the statement, line 2, "Illinois" should be *South Dakota*.

414,331. "FIVE STAR" AND DESIGN. Registered June 5, 1945. Hilltop Farm Feed Company. Minneapolis, Minn. Poultry Feed—Namely, Egg Mash. Class 46. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States excluding the area comprising the States of Alabama, Arizona, Arkansas, Florida, Georgia, Louisiana, Mississippi, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Puerto Rico, and the Virgin Islands, by order of the Commissioner dated May 19, 1953 following decision on Concurrent Use Proceeding No. 115, *Burrus Mills, Incorporated* v. *Hilltop Farm Feed Company*.

570,120. THE AMPERSAND PRESS. Registered Feb. 10, 1953. Stephen Hoyt Patterson, Jr., doing business as The Ampersand Press, Princeton, N. J. Books, Pamphlets, Brochures, Tracts, Leaflets, Prospectuses, and Similar Publications. Class 38. Corrected as follows: In the statement, column 1, line 15, after "goods" strike out the comma.

572,564. FILTRIX. Registered Mar. 31, 1953. Lederwarenfabrik Kritzler K.-G., Rebbelroth, Bez. Koln (District Cologne), Germany. Suitcases, Traincases, Briefcases, Portfolios, Trunks, Etc. Class 3. Corrected as follows: In the certificate, line 3, and in the heading to the printed statement, line 2, address of registrant, for "Cologne, Germany" read *Rebbelroth, Bez. Koln (District Cologne), Germany*.

572,565. OMNICA. Registered Mar. 31, 1953. Lederwarenfabrik Kritzler K.-G., Rebbelroth, Bez. Koln (District Cologne), Germany. Suitcases, Traincases, Briefcases, Portfolios, Etc. Class 3. Corrected as follows: In the certificate, line 3, and in the heading to the printed statement, line 2, address of registrant, for "Cologne, Germany" read *Rebbelroth, Bez. Koln (District Cologne), Germany*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 438,943. Registered May 18, 1948. Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Republished by registrant.

GRID-TAN

The word "Tan" is disclaimed apart from the mark as shown.
For Leather.
Claims use since January 1947.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 367,770. Registered May 30, 1939. Samuel Koret, New York, N. Y. Republished by registrant.

Coronet Handbags

The word "Handbags" is disclaimed apart from the mark as shown.
For Handbags.
Claims use since Aug. 1, 1938.

CLASS 15

OILS AND GREASES

Reg. No. 84,058. Registered Oct. 31, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

SPICA

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,274. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

LYRA

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,276. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

CORVUS

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,279. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

CANOPUS

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,280. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

DRACO

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,282. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

HYDRA

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,284. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

LIBRA

For Lubricating Oils.
Claims use since Apr. 20, 1911.

Reg. No. 84,291. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

CETUS

For Lubricating Oils.
Claims use since Mar. 20, 1911.

Reg. No. 84,295. Registered Nov. 21, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

ARCTURUS

For Lubricating Oils.
Claims use since Mar. 20, 1911.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 409,136. Registered Sept. 19, 1944. Edward A. Brass, Shreveport, La., present address, Norwood, La. Republished by registrant.



For Fire Alarm Apparatus, Railway Signal Controls, Traffic Signals and Associated Control Apparatus, Burglar Alarms, Navigation Signals for Ships' Use, Sirens, and Special Switch Boards, All Electrically Operated.
Claims use since Mar. 1, 1941.

CLASS 37

PAPER AND STATIONERY

Reg. No. 294,487. Registered May 31, 1932. Hubbs & Corning Company, Baltimore, Md. Republished by Hubbs Corporation, Baltimore, Md., a corporation of Delaware.



For Wrapping and Toilet Papers.
Claims use since April 1898.

CLASS 39

CLOTHING

Reg. No. 302,038. Registered Mar. 28, 1933. Hahn Department Stores, Inc., Wilmington, Del. Republished by Allied Stores Corporation, New York, N. Y., a corporation of Delaware.

Marday

For Women's Ready-To-Wear and Accessories—Namely, Coats, Dresses, Suits, Negligees; Knitted, Leather, and Fabric Gloves, Hats; Shoes of Leather, Rubber, or Fabric Construction; Hosiery, Corsets; Leather Coats, Leather and Fabric Jackets, Blouses, Riding Habits, Riding Boots, Sweaters, Skirts, Ski Suits, Snow Suits, Skating Suits, Scarfs, Sports Pajamas, Knitted and Leather Mittens, Bathing Suits, Bathing Trunks, Bathing Wraps, and Robes, Bathing Caps, and Bathing Shoes, the Latter Two Items Being Made of Rubber.
Claims use since July 16, 1931.

Reg. No. 371,416. Registered Sept. 26, 1939. Fenway Coats, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Kinkurl

The word "Kinkurl" is disclaimed apart from the mark as shown.
For Women's and Misses' Coats.
Claims use since July 1, 1938.

REISSUES

JUNE 16, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,668

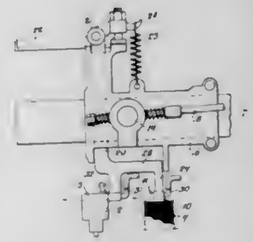
LABEL APPLYING MECHANISM

George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey

Original No. 2,578,329, dated December 11, 1951, Serial No. 737,540, March 27, 1947. Application for reissue February 11, 1953, Serial No. 336,463

58 Claims. (Cl. 216—55)

43. In a machine for forming and applying sheets to articles, means for supporting a supply stack of sheets, means for supporting articles to which the sheets are to be applied, a sheet forming device located between said stack supporting means and said article supporting means, a pair of sheet carrying suction heads associated with said forming device, means for synchronously reciprocating one of said heads between the supply stack and said forming device and the other of said heads between such device and said article support, suction means associated with said heads and said forming device and operable to control the suction applied to the sheets by said heads and said forming device, whereby the sheets are removed successively from the supply stack by one of said heads to said forming device and formed and held formed thereat, then removed therefrom and maintained in formed



condition by the other of said suction heads and applied by the latter to an article on said article supporting means.

PLANT PATENTS

GRANTED JUNE 16, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,194

EUONYMUS FORTUNEI PLANT

Clifford D. Corliss, Gloucester, Mass., assignor to Corliss Bros., Inc., Gloucester, Mass., a corporation of Massachusetts

Application January 5, 1951, Serial No. 204,519

1 Claim. (Cl. 47—59)

The new and distinct variety of broadleaf evergreen Euonymus plant, substantially as herein shown and described, characterized particularly by its adaptability to landscape and specimen planting and to various soil, sun and temperature conditions; its extreme hardiness and drought tolerance; its habit of upright growth from a central trunk, with branches growing laterally and gracefully ascending without support into a well-rounded, dense shrub which is broader than tall and well bushed down to the ground; its strong fibrous roots which assure ease of transplantation; its medium-sized, elliptical, dark green leaves; its narrow, long-pointed leaf buds; and the reddish-purple color of its seed capsule.

1,195

EUONYMUS FORTUNEI PLANT

Clifford D. Corliss, Gloucester, Mass., assignor to Corliss Bros., Inc., Gloucester, Mass., a corporation of Massachusetts

Application January 4, 1951, Serial No. 204,410

1 Claim. (Cl. 47—59)

The new and distinct variety of Euonymus plant, substantially as herein shown and described, characterized particularly by its natural and distinctly erect growth without the necessity of support or clipping; its habit of symmetrical and uniform branching in all directions from a central trunk, forming a generally low, compact, semi-dwarf bush which is broader than tall; its great density of branches and leaves which lie flat and imbricated; its small, wide leaves of glossy, dark green color with much lighter veins; its exceptional hardiness, absence of winter burn, and drought resistance; its ease of propagation and transplantation; its excellent adaptability to different conditions of soil, temperature, sun and moisture, and the complete absence of fruits.

1,196

ROSE PLANT

Bror Engkvist, Halsingborg, Sweden, assignor, by mesne assignments, to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application July 18, 1952, Serial No. 299,782

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized as to novelty particularly by the Peach Red general color tonality, lightly overcast with Capucine Orange, of its flowers, by the distinctive quilling habit of the petals of its flowers, and by its relatively quick growth and rapid production of new flowers after each flower has been cut from the plant.

1,197
ROSE PLANT
Wilhelm Kordes, Holstein, Germany, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application June 24, 1952, Serial No. 295,376
1 Claim. (Cl. 47—61)

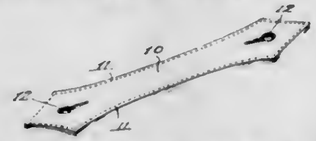
A new and distinct variety of rose plant of the large-flowered polyantha class, substantially as herein shown and described, characterized as to novelty particularly by the relatively sharp and non-fading Spectrum Red general color tonality of its blooms, by the waved form of the petals of its bloom which tends to accentuate the color, by the long-lasting quality of its blooms, and by the bushy and upright habits of growth of the plant.

PATENTS

GRANTED JUNE 16, 1953

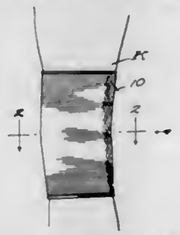
GENERAL AND MECHANICAL

2,641,760
SHOULDER BAG STRAP KEEPER
Frances P. Syracuse, Los Angeles, Calif.
Application May 22, 1950, Serial No. 163,374
1 Claim. (Cl. 2—2)



The combination with an outer garment having a collar, of a button secured to said garment wholly beneath said collar, and on the exterior of said garment, of a shoulder bag strap keeper comprising a strap of flexible material folded double, so that the ends thereof coincide with one another, said coinciding ends being provided with registering button holes which are adapted to engage the button beneath the collar so that the doubled portion of said strap projects outwardly from said collar to provide a loop adapted to freely swing backward and forward upon the shoulder and to receive and retain a bag strap.

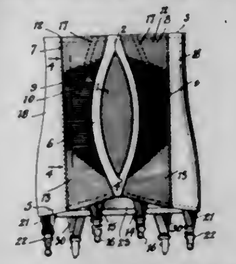
2,641,761
KNEE BRACE OR STABILIZER
August L. Schultz, Mitchell, S. Dak.
Application April 6, 1951, Serial No. 219,691
4 Claims. (Cl. 2—24)



1. A knee support comprising an elastic sleeve, and a pair of cushioned supporting members fixed in said sleeve in opposed relation, each member being formed of an elongated longitudinally disposed bar, and a pair of divergent bars extending from said first named bar, and a laterally projecting bar extending right angularly from said first-mentioned bar between said divergent bars.

2,641,762
GIRDLE
Ralph Greco, New York, N. Y., assignor to Vanity Corset Company, Inc., New York, N. Y., a corporation of New York
Application January 22, 1952, Serial No. 267,658
2 Claims. (Cl. 2—37)

1. A garment of the character described comprising a girdle provided at the front with a pair of spaced elastic panels, said panels being each located to one side of the vertical center line of the garment each of said panels having a central area of limited elasticity, each panel having upper and lower sections of greater elasticity than the central area, a central oval-shaped section in the front of the garment between the panels, said section being secured to a strip-like area having only vertical elasticity, which strip-like area has its outer edges secured to edges of the panels the panels having their outer edges joined to side panels, one of the side panels having an opening extending downwardly from the top edge of the garment and closed by disengageable fastening means, the back of the garment including a pair of elastic inserts extending continuously downwardly from the top edge of the garment to the lower edge thereof, each of said inserts being of vertical and horizontal expansibility, the back of the garment also including a central rear panel located between and attached to said inserts, said central panel having its upper end located below the top edge of the garment, and an elastic section interposed between and secured to the top end of said central rear panel and the upper edge of the garment, said elastic section being expansible in a manner comparable to the expansibility of the elastic inserts in the back of the garment.



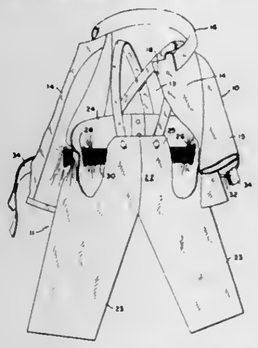
2,641,763
FEMALE BREAST SUPPORT
William E. Schroeder, Hollywood, Calif.
Application November 3, 1950, Serial No. 193,779
4 Claims. (Cl. 2—42)



1. A breast supporter garment comprising a body band having a pair of breast cups formed therein, means to hold shaped resilient filler blocks in the lower portions of said cups, and filler blocks positioned therein, said filler blocks being adapted to underlay the breasts of the wearer, and an anchor band disposed in normal

horizontal position across the middle zone of the opening of each of said cups and attached to the peripheral margins of said cup, said band across said cup being of lesser length than the distance across the unrestricted opening of said cup in said middle zone.

2,641,764
CHILD'S OUTERWEAR ENSEMBLE
Willard H. Fischer, New York, N. Y., assignor to Wee Moderns, Inc., New York, N. Y., a corporation of New York
Application April 20, 1951, Serial No. 222,023
3 Claims. (Cl. 2—70)



2. A child's outerwear ensemble of the character described comprising, in combination, a coat having a waistline covering portion; trousers having a waistline covering portion, said coat including a back section and front sections secured to said back section at its side edges and means for separably securing the contiguous edges of said front section to one another, said coat having vertical slits formed adjacent each side edge of its back section at approximately the waistline thereof, said trousers having a back section and a front section connected thereto, said trousers having vertical slits formed therein adjacent the side edges of the back section thereof at approximately the waistline, and a belt passed from the inside of said trousers through the slits thereof and through the slits of said coat, with the free ends of said belt extending outwardly of said coat, said belt having a fastening clip secured at each end thereof.

2,641,765
GARMENT CUFF
Samuel F. Stein, Milton, Pa.
Application March 28, 1949, Serial No. 84,975
4 Claims. (Cl. 2—123)



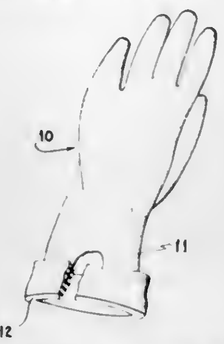
1. The combination with a sleeve of a garment of a convertible cuff construction, comprising an external ply of cuff material having one edge thereof secured on a line adjacent the free end of the sleeve and extending beyond the free end of said sleeve, said ply providing a free edge to the cuff, an interior ply of cuff material extending from said edge within said sleeve and having an edge secured to said sleeve internally thereof on a line substantially spaced from said free end of the sleeve, the portion of the external ply between said first line of securement and the said free edge being of a width to provide a plain cuff, the cuff construction being foldable outwardly and upwardly about the first line of securement with the interior ply exposed to provide a french cuff.

2,641,766
NECKTIE OR SIMILAR ARTICLE
Alfred F. Taborski, Buffalo, N. Y.
Application August 13, 1948, Serial No. 44,167
3 Claims. (Cl. 2—151)



1. A necktie including a base member in the form of two wings connected by a narrow portion and simulating a bow tie and having an aperture extending through said narrow portion, a supporting member formed of a strip of resilient material arranged in rear of said base member and having a central forwardly extending stud rigidly secured on said supporting member and adapted to pass through said aperture, a button removably secured to the front end of said stud after the same has passed through said aperture for holding said base member on said supporting member, means for securing a neck band to said supporting member, and a drape having means at the upper end thereof for securing said drape to the middle of said narrow portion of said base, said button covering said drape securing means.

2,641,767
RUBBER GLOVE
Elizabeth La Rosa, McKeesport, Pa.
Application February 27, 1951, Serial No. 212,970
1 Claim. (Cl. 2—168)



A rubber glove having a tubular wrist portion terminating in a free edge, and a ring of sponge rubber overlying said free edge and covering the inner and outer surfaces of said wrist portion adjacent to said free edge.

2,641,768
PROTECTIVE HOOD
George J. Pipher, Reading, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application September 15, 1951, Serial No. 246,731
2 Claims. (Cl. 2—205)



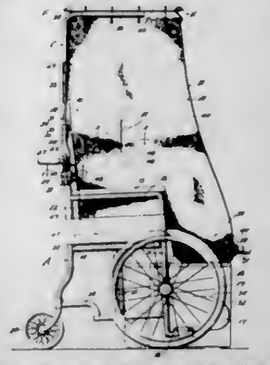
1. An industrial, protective hood having a cutout portion, a window supporting frame attached to the margin of said cutout portion, said frame comprising a pair of substantially U-shaped members with their extremities pivotally connected together so as to form a continuous substantially rectangular window frame, the bases of said U-shaped members being outwardly curved, a continuous groove formed along the entire inner marginal portions of said U-shaped members, a replaceable, outwardly curved window having a marginal portion which is shaped so as to fit into said groove and a threaded stud and nut for selectively clamping each pivotal connection between the extremities of said U-shaped members.

2,641,769
MECHANICAL HAND
George B. Robinson, Napa, Calif.
Application July 3, 1952, Serial No. 297,191
6 Claims. (Cl. 3—12.7)
(Granted under Title 35, U. S. Code (1952), sec. 266)



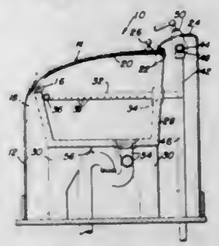
1. A hand prosthesis comprising a wrist; a plurality of metacarpals; resilient means for mounting said metacarpals on said wrist; a plurality of phalanges articulated to said metacarpals; a second plurality of phalanges articulated to the phalanges of said first plurality; an equalizer bar pivotally mounted on the hand; a pair of pulleys mounted on said equalizer bar on opposite sides of the pivot axis of said bar; a first cable passing over one of said pulleys and anchored at one end to one of said first plurality of phalanges and anchored at its other end to a second of said first plurality of phalanges; a second cable passing over said second pulley and anchored at one end to a third one of said first plurality of phalanges and anchored at its other end to a fourth one of said first plurality of phalanges; means for bodily moving said equalizer bar to apply tension to said cables; and means connected between said metacarpals and said second plurality of phalanges for automatically flexing said second plurality of phalanges in response to flexion of said first plurality of phalanges.

2,641,770
SHOWER BATH FOR INVALIDS
Gerald K. Chapin, Catonsville, Md.
Application April 19, 1950, Serial No. 156,903
14 Claims. (Cl. 4—146)



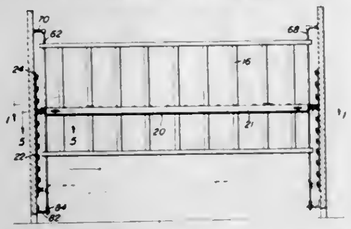
1. Apparatus for the shower bathing of invalids comprising a chair having a plurality of wheels providing for mobility of the chair; a shower enclosure device comprising supporting brackets secured to the chair; framework detachably mounted on said brackets; and a waterproof enclosure hung from said framework having an openable side to give entry into the enclosure.

2,641,771
FOOT WASHER
George Schiro, Chicago, Ill.
Application August 2, 1951, Serial No. 239,949
1 Claim. (Cl. 4—182)



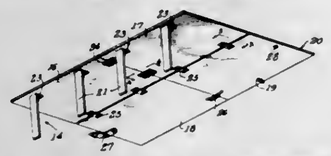
In a foot washer, the combination of a cabinet including a substantially flat front wall and an upwardly and rearwardly arcuate top wall provided with a substantially rectangular door opening, a tub positioned in said cabinet under said opening, front and rear legs supporting said tub, the front of said tub and the front legs being spaced rearwardly from said front wall, a pair of arcuate flanges provided on said top wall at opposite side edges of said opening, a pair of guide rollers provided in said cabinet adjacent the front ends of the respective flanges, and an arcuate door panel resting on said flanges and on said rollers when in its closed position, said rollers affording a rolling fulcrum for said door panel whereby the latter may be swung forwardly and upwardly and slid downwardly to an open position in the space between said front wall and said tub, said front legs being engageable with the lower edge of said panel and providing stop means therefor when the panel is in its open position.

2,641,772
BABY CRIB CONVERTIBLE INTO A PLAYPEN
Philip E. Cook, South Bend, Ind.
Application November 29, 1950, Serial No. 198,204
5 Claims. (Cl. 5—93)



1. A baby crib convertible into a play pen and comprising a pair of upstanding ends, a pair of longitudinally extending sides and a bottom, said bottom including a substantially rectangular bottom frame and a conventional spring secured thereto, a pair of transversely extending elements between said ends and rectangular bottom frame, means mounting said pair of elements on said ends for vertical adjustment thereon, and means pivotally mounting said rectangular bottom frame on said pair of elements for vertical swinging into inverted position.
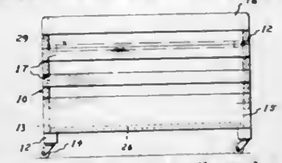
2,641,773
BABY PEN FOR AUTOMOBILES
Jack M. Kramer, Los Angeles, Calif.
Application August 5, 1950, Serial No. 177,953
3 Claims. (Cl. 5—94)



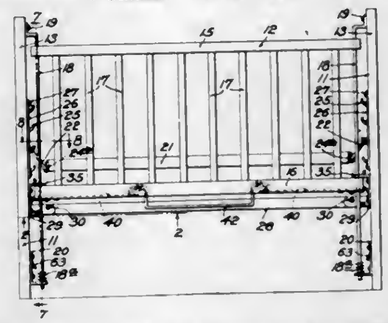
3. In a baby pen of the character described, a foldable support comprising a platform composed of four rectangular panels, hinges connecting two of said panels and disposed for folding of said two panels with their under faces directed toward each other, foldable legs carried by said two panels and, when folded, residing between the said two folded panels, hinges connecting the other two panels to the first two panels and disposed for folding of said other two panels against the upper faces of the first two panels, an extensible connection between the adjacent edges of said other two panels, and separable fastener means connecting the opposite ends of said other two panels when the four mentioned panels are folded on their respective hinges.

2,641,774
FOLDING CRIB
Sheldon Carbee, Melrose, Mass.
Application June 17, 1948, Serial No. 33,529
2 Claims. (Cl. 5—99)

1. A unit for use in the care of a child, said unit comprising a pair of side walls and a pair of end walls, each of said side walls comprising a pair of uprights and a plurality of spaced and horizontally disposed members interconnecting said uprights with said uprights projecting towards the other of said side walls, each of said uprights including a shoulder adjacent its lower end, each of said end walls comprising a pair of sections each of which is hinged to the other and to one of said uprights to enable said end walls to be folded inwardly towards the other to collapse said unit with the folded end wall sections in spaced relation to said side walls thereby to define a pair of storage compartments, a bottom hinged to the lowermost member of one of said side walls and dimensioned to fit one of said compartments when the unit is collapsed, and to seat against said shoulders to establish a playpen, and a crib establishing element including a plurality of spaced supporting arms to seat on and lock to the upper surfaces of corresponding members of said side walls and to abut the uprights of the side walls, said crib element being dimensioned to fit within said other compartment of the unit when collapsed and to be supported therein by engagement of its supporting arms with said shoulders.



2,641,775
DROP SIDE CRIB
Victor J. Bukolt, Stevens Point, Wis.
Application December 26, 1951, Serial No. 263,408
7 Claims. (Cl. 5—100)



5. In a crib, spaced end members supporting latch keepers, a vertically movable drop side between the end members and having a bottom rail, longitudinally slidable latch rods on each end portion of said bottom rails, said latch rods being spring projected beyond the ends of said rail for coaction with the keepers, levers for retracting said latch rods pivotally mounted on said rail at points spaced inwardly from its ends, and a U-shaped foot actuated lever extending longitudinally of the central portion of said rail and having arms pivotally mounted on said rail with crank portions for coaction with said latch retracting levers.

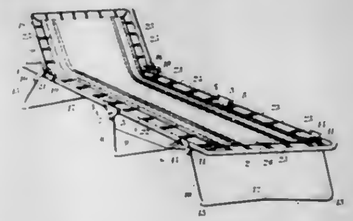
2,641,776
BED TENT
Adolph V. Jensen, Council Bluffs, Iowa
Application November 12, 1949, Serial No. 126,859
8 Claims. (Cl. 5—113)

1. In a cot-tent device having a frame member comprising two sides, a front and rear, outwardly extending projections on the front and rear respectively of said frame member, means providing a sleeping surface on said frame member and a cover member detachably secured to said frame member, a collapsible means for elevating and supporting said cover member comprising, a support rod pivotally secured at one end to each corner of said frame member, collapsible means for holding each of said support rods in vertical position at times, a pair of elongated support rods oppositely disposed on the front and rear of said frame; each said elongated support rod pivotally secured at one end to the respective front and rear frame portions at a point between the ends thereof, collapsible means for holding said elongated support rods in upright position at times, a connecting support member extending between the free ends of said elongated support rods, a connecting support member between the free ends of each oppositely disposed first mentioned support rods, said device constructed so that when said cover supporting structure is extended to its operable condition said cover member will extend over all of said connecting support members with the support member on said elongated support rods extending longitudinally of the center of the tent and forming the apex of the roof, and said device when collapsed adapted so that portions of the cover can extend over and be secured to said projections on the frame member whereby the device can be protected from the elements when being stored or transported.



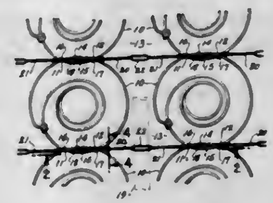
2,641,777
COLLAPSIBLE CAMP BED
Stanislaûs Karasek, Vienna, Austria
Application February 13, 1951, Serial No. 210,648
1 Claim. (Cl. 5—117)

In a folding bed having a frame formed of two pivotally connected U-shaped members with support elements pivotally connected to each said member and a head rest pivotally mounted on one said member, the improvement comprising said head rest comprising a U-shaped frame pivotally mounted at its ends to the sides of said one frame member, undulating wires having spaced bends of greater length than intermediate bends, said wires being fixed by welding said greater bends to the inner sides of said head rest frame and said one frame member between the pivotal connections thereof to the head rest frame and to the other said frame member, a body support web, a plurality of springs connected at one end to the edges of said web and selectively hooked at their other ends in selected lesser bends of said undulating wires, said support elements comprising U-frames having their ends pivotally



connected to the sides of said frame members and in the plane of each side for abutment therewith in supporting position and solely propped by said abutment.

2,641,778
SPRING CUSHION ASSEMBLY
Aloysius J. Quinn, North Bergen, N. J.
Application September 30, 1949, Serial No. 118,806
4 Claims. (Cl. 5—267)

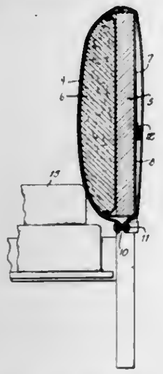


1. A cushion spring assembly comprising a row composed of a plurality of helical wire springs arranged side by side and having arcuate portions of adjacent springs arranged in overlapping relationship to provide therebetween an inter-arc space and contacting joint portions on opposite sides thereof, a fastening tie for said springs comprising a pair of tie wires provided with portions having an interengaging contact with each other at a central position within said inter-arc space and additional portions extending in opposite directions to positions above and below each of the contacting joint portions of said arcuate overlapping spring portions, said pair of tie wires also having interengaging portions extending beyond the outer sides of said arcuate overlapping spring portions and adapted in combination with the inter-engaging tie-wire portions within said inter-arc space to fasten said overlapping spring sections together.

2,641,779
DECORATIVE COVER FOR HEADBOARDS
Reva Gill, Brooklyn, N. Y.
Application January 3, 1952, Serial No. 264,730
1 Claim. (Cl. 5—317)

In combination with a bed having a head board, a cushion provided with a plurality of tapes at the bottom and top thereof, the tapes at the top disposed over and the tapes at the bottom disposed under the head board and fastened in the rear thereof, a decorative envelope cover closed at the top and sides and open at the bottom and

having fasteners at the bottom thereof, said cover enclosing the cushion, the rear, top and sides of



the head board, the fasteners securing the bottom edges of said cover below the head board.

2,641,780
APPARATUS FOR RECOVERING PRACTICE TORPEDOES

Charles B. Brown, Washington, D. C., Everett F. Cox, Albuquerque, N. Mex., Richard MacHenry, Prospect Park, Pa., and Earl Finkle, Washington, D. C.

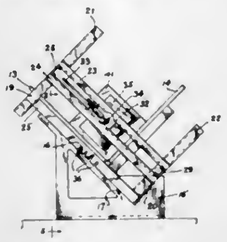
Application January 24, 1949, Serial No. 72,462
6 Claims. (Cl. 9—9)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In torpedo recovery apparatus of the character disclosed comprising, a housing for enclosing a marker buoy and having an opening for releasing the buoy therefrom, a cover hingedly supported on said housing for closing said opening, said cover having a face, spring means operatively connecting the cover and housing for urging said cover to open position, a first latch member pivotally supported on said cover about an axis generally perpendicular thereto for pivotal movement thereon parallel to the face thereof, a first coacting latch means mounted on said housing for locking the cover in closed position when the latch member is moved from a cover releasing position to a cover locking position while the cover is in closed position, a second latch member supported on the cover for pivotal movement thereon parallel to the face thereof, said second latch member retaining said first latch member in said cover locking position thereof when the second latch member is moved from a position for releasing the first latch member to a position for locking the first latch member, a plate member supported on said cover for pivotal movement thereon about the pivot axis of said first latch member, coacting cam means mounted on said plate member for engaging and moving the second latch member between said positions thereof for respectively locking and releasing the first latch member as the plate member is pivotally moved between first and second positions thereof, second spring means interconnecting said plate member and said first latch member along a line disposed to one side of said pivot axis of the first latch member when the plate member is in the second position thereof and when the plate member is in the first position thereof interconnecting said plate and first latch members along a line disposed to the other side of said pivot axis whereby the first latch member is yieldably urged by said second spring means into said cover locking and releasing positions thereof when the plate member is moved respectively into said first and second positions thereof, and a disintegratable element interposed between said first latch member and the cover when the first latch member is in the cover locking position thereof for preventing movement of the first latch member into the cover releasing position thereof until said element has become disintegrated, said cover and first latch member having complementary recesses formed therein for receiving said element.

2,641,781
PAPER PADDING PRESS

Herbert T. Haskell, Carlsbad, N. Mex.

Application July 8, 1952, Serial No. 297,717
2 Claims. (Cl. 11—1)

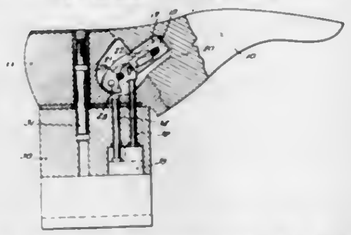


1. In a paper padding press, in combination, a stock trough having two inclined surfaces at right angles to each other, a clamping frame arranged to receive and clampingly hold a stack of paper, a plurality of pin elements on each end of one of said inclined surfaces, and respective depending flanges at the ends of the frame, said flanges being each formed with a plurality of spaced notches adapted to be selectively engaged with one of the pin elements at an end of the said one of the inclined surfaces to support said frame in a selected position relative to said inclined surfaces, whereby a stack of paper may be arranged for padding by engagement with said inclined surfaces, prior to clamping said stack in the frame.

2,641,782
COLLAPSIBLE LAST

George F. Ryan, South Peabody, Mass.; Beatrice Z. Ryan, executrix of said George F. Ryan, deceased, assignor to Ryan & Burke Machine Co., Inc., Lynn, Mass., a corporation of Massachusetts

Application November 13, 1950, Serial No. 195,265
10 Claims. (Cl. 12—136)

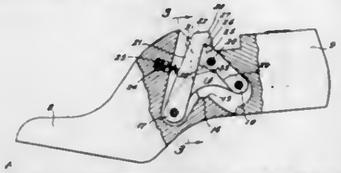


6. A collapsible last comprising heel and forepparts and connecting mechanism including an anchor pin in each part of the last, a long link having a slot in which one of the anchor pins is freely movable, and a pair of toggle links pivotally connected at one end to the long link, guided at their other end in the slot of the long link and pivotally connected at an intermediate point to the other anchor pin.

2,641,783
SHOE LAST

Henry G. Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio

Application February 27, 1952, Serial No. 273,693
7 Claims. (Cl. 12—136)



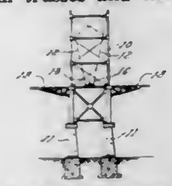
1. A shoe last comprising a forepart and a heel part each having two offset meeting surfaces forming cooperative shoulders for maintaining the last parts in operative, expanded positions, a link connecting the forepart and heel part for relative swinging movements between collapsed and expanded positions, a heightwise catch plate mounted on the heel part, an upstanding latch lever pivotally mounted on the forepart and provided at its upper end with a rearwardly extending lug engageable with the upper edge of the plate to detain the last parts in expanded position, spring means for urging the latch lever against the plate, a deformation formed on the catch plate intermediate its heightwise extent, and a complementary irregularity on the latch lever lug for engaging the deformation in the catch plate to maintain the last parts in collapsed position.

2,641,784
BRIDGE CONSTRUCTION

John B. Templeton, Dallas, Tex.

Application August 20, 1948, Serial No. 45,410
16 Claims. (Cl. 14—19)

1. A bridge structure including, spaced towers, spaced main cables looped over said towers and anchored at points spaced therefrom, carrier members supported by said main cables between the towers, wind arm truss members rigidly secured at said towers and extending laterally therefrom in the plane of the carrier members, wind cables extending between the outer ends of said wind arm trusses and having stay means

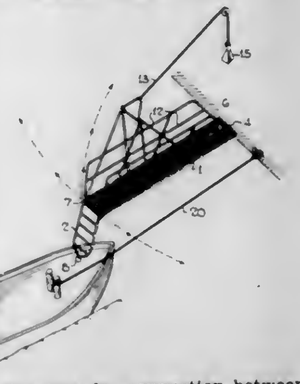


connecting said wind arm cables with the carrier members, and a swingable arm swingably connected at its outer end to the outer end of each wind arm truss and connected at its inner free end to the wind cable for swingably supporting the wind cables at points spaced laterally from the towers.

2,641,785
MARINE TRANSFER RAMP

William A. Pitts and Campbell M. Carothers, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

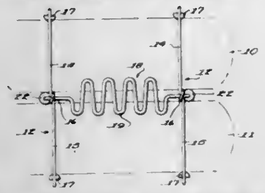
Application June 26, 1948, Serial No. 35,424
1 Claim. (Cl. 14—71)



A ramp structure for connection between marine structures subject to relative movement one to another, comprising in combination, a substantially rigid walkway platform having an inboard end and an outboard end, a relatively rigid support for the inboard end of said platform consisting of a cross bar element extended laterally of said platform in journalled engagement therewith and a pivot pin secured to said cross bar element at the midpoint longitudinally thereof in rigid, right angular relation thereto, said pin engaging a corresponding socket carried by one of said marine structures, a flexible support for the outboard end of said platform, consisting of a ladder unit, including longitudinal side rail portions, said unit having an inboard end and an outboard end, a transverse pivoted joint between the inboard end of said ladder unit and the outboard end of the platform, said ladder side rail portions at the outboard end thereof extended angularly inward to a rigid junction at a midpoint therebetween, and a ball-type terminal element substantially integral with

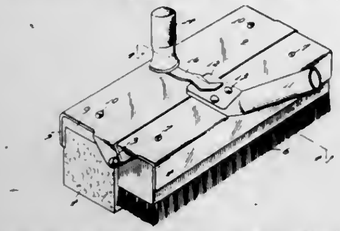
said rail portions at said junction, a socket member receiving said terminal element and connected to said other marine structure, means for securing said terminal element and socket against separation, and means for substantially counterbalancing the weight of said platform.

2,641,786
RESILIENT BRUSH AND BUFFER HOLDING HANDLE
Robert S. Parker, Dover, N. J.
Application June 21, 1950, Serial No. 169,385
3 Claims. (Cl. 15—114)



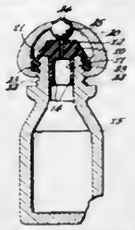
1. A device for holding a shoe brush and a shoe buffer together as a unit comprising a pair of spring clamps, each of said clamps comprising a pair of arms mounted for movement toward and away from each other and interconnected together by a loop, a retaining member extending through said loops and including an intermediate handle portion, a pair of spaced, parallel legs extending from said retaining member and terminating between said brush and buffer, and a cushion arranged on the free end of each of said legs and a pad arranged on the free end of each of said arms.

2,641,787
MOP HAVING SECTIONAL HEAD WITH CONTRASTING CLEANING MATERIAL
Samuel P. Vosbikian, Manuel Vosbikian, and Joseph Vosbikian, Melrose, Pa.
Application June 13, 1947, Serial No. 754,318
1 Claim. (Cl. 15—116)



In a mop, rectangular front and rear head sections disposed side by side and having at opposite ends downwardly deflected flanges pivoted together at each end of the sections, a rectangularly shaped block of sponge material having a back fixed to the bottom of the front head section, a rectangularly shaped brush fixed to the bottom of the rear head section, a handle socket fixed to the rear head section and overhanging the front head section and having a portion bearing against the front head section when the sections are in horizontal alignment, a handle fixed to the front section, and a spring fixed at one end to the front section and at its other end bearing against said handle socket portion when the device is in operating position to maintain horizontal alignment of the sections, the bristle of the brush terminating above the bottom face of the sponge material whereby downward pressure on either the handle or handle socket compresses the sponge material to bring both sponge material and bristles into cleaning contact with a surface to be cleaned, and a downward swinging movement of the sections causing the bristles to compress the sponge material to extract liquid therefrom.

2,641,788
COMBINED CAP AND DISPENSER FOR PERFUME BOTTLES
Steve Sudbeaz, New York, N. Y.
Application April 22, 1950, Serial No. 157,491
5 Claims. (Cl. 15—132.7)



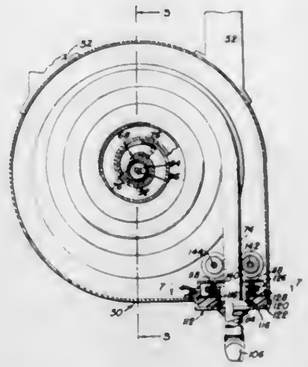
3. A combined cap and dispenser for a perfume bottle having an externally threaded neck, comprising an inner perforated cap adapted to be seated in the bottle, said cap having a portion of such size as to extend laterally beyond the neck of the bottle to provide a seal; and an outer hollow cap member having at its base an inturned annular flange adapted to engage the threaded neck of a bottle, said flange being adapted to abut said cap portion in one position, an aperture in said hollow cap and a ball valve seated on said perforated cap and engaging said aperture.

2,641,789
ARTICULATED WIPER BLADE
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application December 20, 1946, Serial No. 717,543
8 Claims. (Cl. 15—245)



1. A wiper comprising a flexible body having a wiping edge along one margin, a series of elongate backing members arranged end to end along the opposite margin of the body for reinforcing the same, and an arched supporting bridge pivotally connected at its opposite ends to points on the end members intermediate their ends for enabling the end members to rock toward and from the windshield surface, there being a backing member intermediate the end members which is suspended by the body free of the bridge and which gives support to the body portion between such end members.

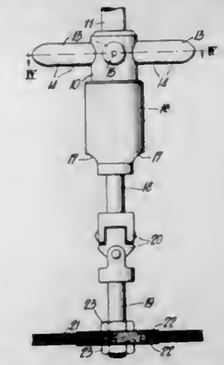
2,641,790
VACUUM HAIR REMOVAL SYSTEM FOR BARBER SHOPS
Russell A. Coult, Sutherlin, Oreg.
Application July 1, 1949, Serial No. 102,647
4 Claims. (Cl. 15—315)



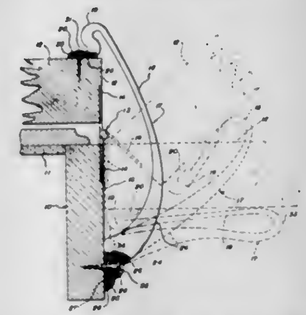
1. In a suction cleaning apparatus which has a suction conduit and a refuse pickup unit and said unit comprising a case, a hollow shaft disposed in said case and a flexible hose connected to and in communication with said hollow shaft and having a free end, said conduit being connected to and in communication with said hollow shaft, said case having an aperture therein through which the free end of said hose passes, a switch carried by said case and located adjacent the aperture in said case, a collar connected to the free end of said hose and arranged for holding said switch in the open condition, means to close the switch when the hose and collar are withdrawn from the case, a valve disposed in said hollow shaft to control the passage of air from said hose to said hollow shaft, a solenoid with a plunger connected to said valve and arranged to actuate said valve, electrical wiring connected to said switch and said solenoid whereby upon closing of said switch said solenoid may be actuated to operate said valve, and said solenoid plunger being in axial alignment with the hollow shaft, and a spring operatively connected with said valve, normally holding said valve in closed position.

2,641,791
AIR-OPERATED APPARATUS FOR REMOVING DUST ACCUMULATIONS FROM REGENERATIVE CHECKERWORK
Harold W. Wells, Youngstown, Ohio
Application June 21, 1949, Serial No. 100,486
3 Claims. (Cl. 15—387)

2. Apparatus for removing dust accumulations from the bricks of regenerative checkerwork, comprising an air chest adapted to be lowered into the open spaces of the checkerwork, an air-supply pipe extending upwardly from the chest, radial nozzle tubes fixed to the chest, spaced circumferentially about the vertical axis thereof and communicating therewith, each tube having an outlet port positioned to discharge a jet of air against the checkerwork, a turbine suspended below said chest and communicating therewith so as to be supplied with air thereby, a shaft extending downwardly from said turbine, and means on the shaft effective to dislodge accumulations of dust deposited on the bricks of the checkerwork.

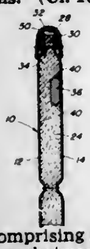


2,641,792
HINGE GUARD
Noble E. Peeler, St. Paul, Minn.
Application January 17, 1950, Serial No. 138,966
1 Claim. (Cl. 16—86)



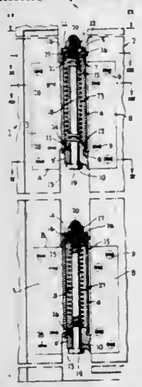
In a guard for bridging the space between a door jamb and the adjacent edge of a door hinged on the door jamb, a resilient plate elongated in the direction of the length of the door and door jamb, said plate having longitudinal side edge portions, one of said side edge portions comprising a portion of greater thickness than the intermediate portion of said plate and a first flange projecting laterally from one side of the plate, said first flange being adapted to be engaged with and secured to the door jamb, the other of said side edge portions comprising a portion of greater thickness than said intermediate portion of said plate and thinner than said first side edge portion and a second flange projecting laterally from said plate on the said one side of the plate, said first flange having an outer side remote from said second flange and said second flange having an outer side remote from said first flange, the outer side of said first flange being adapted to be engaged with and secured to the door jamb at one side of said space and the outer side of the second flange being adapted to be engaged with and secured to the door at the other side of said space.

2,641,793
POT HOLDER
Carl C. Wilm, Denver, Colo., assignor to Magnex, Inc., Denver, Colo., a corporation of Colorado
Application July 22, 1952, Serial No. 300,135
3 Claims. (Cl. 16—116)



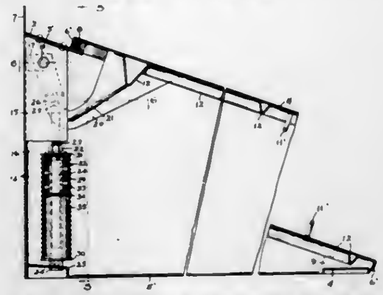
1. A pot holder comprising sheets of fabric with fibrous padding therebetween secured together and quilted to provide a minor enclosed area substantially filled with padding, said padding in that area providing a pocket in one corner of the holder, and a magnet positioned in said pocket and retained against displacement therein by the padding between the sheets.

2,641,794
HINGE
Joseph Raskin, Brooklyn, N. Y.
Application May 12, 1950, Serial No. 161,549
2 Claims. (Cl. 16—134)



1. A hinge for a door, including, in combination, a first leaf adapted to be attached to a door frame, a second leaf adapted to be attached to a door, the first leaf including a hollow cylinder open at both ends, the second leaf being formed with a projecting boss at one end, said boss being formed with a portion rotatably positioned within the lower end of the cylinder and with a through bore and an end face, a cap positioned at the upper end of the cylinder and formed with a through threaded bore, said cap being formed with a flange resting on the top of the cylinder and a portion rotatably positioned in the cylinder, said cylinder formed with a transverse bore and said cap with a radial cavity, a locking pin in the bore and in the cavity to prevent relative rotation of the cylinder and the cap, a threaded bolt passing through the bore in the boss with the head of the bolt resting on the end face of the boss and also threaded into the cap and a lock nut above the cap threaded onto the bolt whereby the relative positions of the door and frame may be varied longitudinally.

2,641,795
COUNTERBALANCING SPRING HINGE
Paul W. James, Fayetteville, and Herbert G. Reynolds, Syracuse, N. Y., assignors to Heatilator, Inc., Syracuse, N. Y., a corporation of New York
Application December 28, 1950, Serial No. 203,128
3 Claims. (Cl. 16—135)

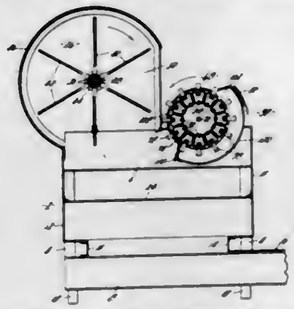


1. A hinge assembly for pivotally attaching a closure to a frame having an opening therein, comprising a supporting member adapted to be attached within the frame, a hinge pin carried by said supporting member, a hinge arm pivotally mounted at one end on said hinge pin, the opposite end of said hinge arm being adapted for connection with the closure for said frame, whereby said closure may be swung open or closed, an abutment also carried by said supporting member, and resilient means interposed between said abutment and said hinge arm for urging said closure to an open position, wherein said hinge assembly includes a pair of telescopic members, one of said telescopic members being pivotally connected to said hinge arm and the other of said telescopic members being pivotally mounted on said abutment, a spring seat carried by each of said telescopic members, a support disposed about one of said telescopic members and engaged at one end with the spring seat on the latter telescopic member, said support having a spring seat at its other end disposed intermediate the spring seats on the respective telescopic members, and said resilient means comprises a pair of compression springs adapted to exert a combined force on the closure for a portion of its opening swing, while only one of said springs remains active upon the closure for the remainder of the opening swing of said closure, one of said springs being disposed between the spring seats on the respective telescopic members and the other of said springs seating on the seat on said support and extending towards the spring seat on one of the telescopic members for engagement therewith.

2,641,796
POULTRY PICKING MACHINE
Gordon W. Johnson, Raytown, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri
Application May 24, 1948, Serial No. 28,814
2 Claims. (Cl. 17—11.1)

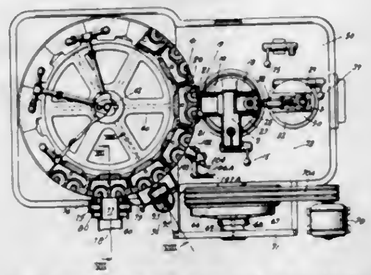
1. In a poultry picking apparatus for effecting a complete picking of feathers and pin feathers of said poultry, the combination of a supporting frame, a pair of elongated rotary drums mounted on said frame, means connected to said drums for rotating the same in opposite directions relatively on substantially parallel axes, a first drum having a plurality of axially extending rows of relatively

long fingers, said long fingers extending radially from the axis of rotation of said first drum during rotation thereof, and being pivotally mounted for free swinging movement adjacent to and on an axis substantially parallel with said axis of rotation of said first drum, a second drum having a number of axially extending spaced rows of relatively short and substantially inflexible fingers, said rows of short fingers being relatively close together to support poultry being



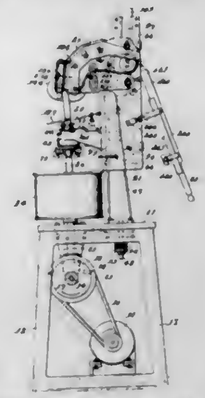
picked thereon, said short fingers being normally radially disposed and having flexible connection for movement with respect to said second drum, said long fingers terminating adjacent but spaced from the short fingers during rotation of the drums, whereby the rotation of the first drum will produce a pressure against the poultry between the drums sufficient to cause picking of the feathers by said first drum and removal of pin feathers by the second drum.

2,641,797
SHRIMP ASSIMILATING MACHINE
Adolf E. Waltman, Pass Christian, Miss., assignor of one-third to Edgar P. Guice and one-third to Eldon E. Hickey, both of Ocean Springs, Miss.
Application March 22, 1949, Serial No. 82,761
7 Claims. (Cl. 17—32)



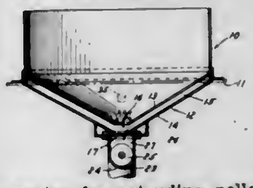
1. In a molding apparatus for manufacturing assimilated shrimp from shredded shrimp meat, comprising a circular die table having a mold of semi-circular cross-section therein provided with two terminal openings extending through the periphery thereof, an injection element for supplying meat to said mold having a concave surface complementary to the periphery of said mold and in contact therewith, said injection element having an opening therein registering with one of the openings of said mold, the concave surface of said injection element extending over the second opening of said mold.

2,641,798
SAUSAGE LINKING MACHINE
Eric W. Anderson, Chicago, Ill.
Application August 23, 1947, Serial No. 770,319
24 Claims. (Cl. 17—34)



1. In a sausage linking machine having a supporting frame, a rotatable twisting head mounted on the frame, means also mounted on the frame for feeding a stuffed casing to the twisting head, continuously operating means for pulling the sausage casing through the twisting head, a linking holder mounted on the frame to move between the twisting head and the pulling means, grippers mounted on the holder movable to and from a position gripping the casing to form a link and to connect the holder for movement with the casing, and means operatively associated with the grippers to reciprocate the grippers to and from the casing gripping position.

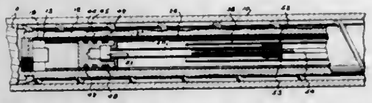
2,641,799
APPARATUS FOR EXTRUDING PELLETS
Angus McDonald and John R. Strobel, Pontiac, Mich., assignors to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application May 15, 1950, Serial No. 161,948
2 Claims. (Cl. 18—1)



1. In apparatus for extruding pellets of heat softenable material, an extruding device, means for supplying pellets to the extruding device including a hopper having an outlet opening at the bottom through which pellets are discharged by the action of gravity and having a bottom wall converging toward the outlet opening for directing the pellets to said opening, means for flowing a gaseous medium at elevated temperatures in an upward direction through the discharge opening at the bottom of the hopper with sufficient force to retard passage of pellets through said opening and create a turbulence in the region of the discharge opening, said means including a second wall spaced from the bottom wall to provide a jacket between said walls and

having an opening registering with the discharge opening in the bottom wall of the hopper, and a supply conduit for the gaseous heating medium communicating with the jacket at a point spaced from the registering openings through said walls whereby gaseous heating medium flowing from the supply conduit to the registering openings passes in heat exchange relationship to the bottom wall of the hopper.

2,641,800
APPARATUS FOR ADVANCING AND WORKING PLASTIC COMPOUNDS
Hubert A. Myers, North Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 21, 1951, Serial No. 232,801
11 Claims. (Cl. 18—12)

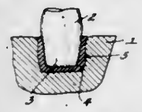


1. An apparatus for advancing and working plastic compounds, which comprises an extruding cylinder having a bore therein, a stock screw having a bore therein extending from one end thereof, a piston slidable in the bore in the stock screw, means secured to the piston and extending to a point beyond the stock screw for shifting the piston along the bore in the screw, and means for supplying a heat exchange fluid to the portion of the bore in the stock screw on one side of the piston.

2,641,801
METHOD OF HEAT HARDENING OF FRICTION MATERIALS
Clyde S. Batchelor, Upper Stepney, and Henry J. Cofek, Bridgeport, Conn., assignors to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
No Drawing. Application February 8, 1949, Serial No. 75,296
4 Claims. (Cl. 18—48)

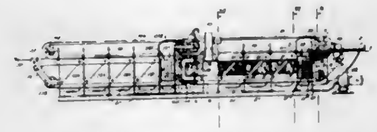
1. A method of heat hardening friction materials of the type comprising asbestos, an uncured thermosetting binder and an organic solvent for said binder which comprises, subjecting said friction material to heat at an initial temperature which in the absence of the solvent would effect rapid cure of said binder at the surfaces of the friction material, said temperature being at least as high as the minimum distilling temperature of the solvent present, and continuing said heating at at least said temperature until substantially all of the solvent has been vaporized and the binder cured to infusibility.

2,641,802
METHOD FOR PRODUCING DENTURES
George W. Grant, Bucyrus, Ohio
Application October 4, 1950, Serial No. 188,435
3 Claims. (Cl. 18—55.1)



1. The method of forming dentures, which comprises: molding a denture body in a manner effecting the shaping and conformity thereof with the physical requirements of an edentulous mouth space which the denture is to occupy, disposing in said body while the same is in a formative state the root region of an associated artificial tooth, said region having applied thereto a removable cap which conforms generally to the configuration of the region on which the cap is mounted, whereby to form in said body a socket of controlled configuration and possessing greater dimensions than said tooth region, and following molding of the denture body and said socket removing the tooth and its cap therefrom.

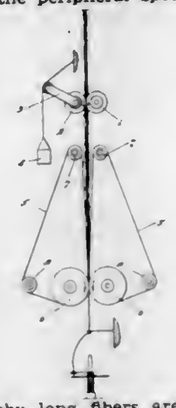
2,641,803
METHOD AND MACHINE FOR REMOVING FIBERS FROM PLANT STEMS
Karel Vonders, Holten, Netherlands, assignor of eighty per cent to Jacobus Nolten, Holten, and twenty per cent to Willem Frederik Hendrik Zegers, The Hague, Netherlands
Application February 16, 1948, Serial No. 8,696
In Switzerland February 19, 1947
35 Claims. (Cl. 19—13)



1. A method for removing woody materials from fibers in the stems of plants comprising: holding said stems to hang vertically downward, bending the stems to loosen the woody materials around the fibers and then repeatedly clamping successive longitudinal sections of said stems and stretching the fibers in said clamped sections at a rate of at least about one thousand times per minute to produce standing vibration waves along said fibers in each said section to throw off said woody materials from said fibers.

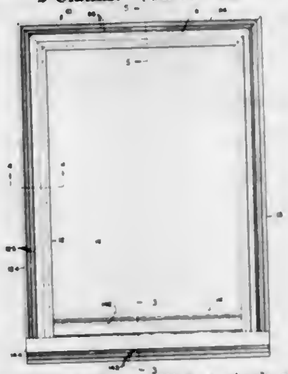
2,641,804
PROCESS AND APPARATUS FOR CONVERTING TEXTILE FIBERS
Norman Edward Klein, Clemson, S. C., assignor to Deering Milliken Research Trust, Pendleton, S. C., a nonprofit trust of Maine
Application June 26, 1946, Serial No. 679,387
6 Claims. (Cl. 19—.35)

3. A device for producing relatively uniform rovings of staple fibers which comprises feed rolls for movably retaining a continuous sliver of relatively long textile fibers, a movable endless belt spaced below said feed rollers and having a side thereof disposed beneath the rollers substantially parallel to the path of travel of the sliver, rotatable means in fixed position and in contact with the inner surface of said side at a portion thereof removed from the rollers, a roller positioned at the outer surface of said side at said portion and a gathering element presenting to said sliver a surface slightly inclined with respect to said path of travel, said surface and said belt progressively converging toward said portion where said belt and rotatable means are in substantial contact whereby the fibers are restrained against traverse displacement, said rotatable means being adapted to cause said belt and the surface of the roller associated therewith to travel at a speed substantially higher than the peripheral speed of said feed



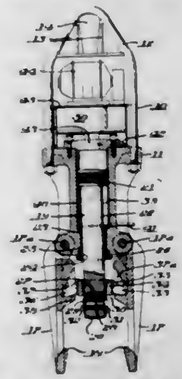
rollers whereby long fibers are stretched and broken into fibers of staple length.

2,641,805
WINDOW FRAME TEAR-OFF FLANGE
Sam Spector, Shaker Heights, and George J. Teplanszki, Warrensville Heights, Ohio, assignors to Tilt-Type Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application December 21, 1951, Serial No. 262,737
2 Claims. (Cl. 20—55)



1. The method of installing a stock size storm window frame within a primary window having arbitrary dimensions without distorting and misaligning said stock size storm window frame comprising the steps of providing a stock size storm window frame including jamb frame members and transverse frame members at least one of said jamb frame members and one of said transverse frame members being bordered by integral flat coplanar flanges grooved on one surface along longitudinal parallel lines and the surfaces of said co-planar flanges on the reverse side from said one surface being substantially planar to define outwardly of the innermost of said lines associated with each frame member, a tear-off flange comprised of a plurality of tear-off strips, discarding the number of said tear-off strips necessary to accommodate the height and width of said storm window frame to the dimensions of said primary window, and thereupon anchoring said flat coplanar flanges to said primary window.

2,641,806
INGOT STRIPPER
Roy J. Leckrone, Mount Lebanon, Pa., assignor to Pittsburgh Engineering and Machine Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1949, Serial No. 73,473
1 Claim. (Cl. 22—95)



An ingot stripper comprising a frame, a double-acting cylinder vertically mounted in the frame, means to supply fluid under pressure alternately to opposite ends of the cylinder, a piston in the cylinder, a piston rod secured to the piston and extending downwardly therefrom out of the cylinder, a cap secured to the lower end of the piston rod to engage an ingot, a pair of mold-gripping members pivotally mounted on and dependent from the frame to support a mold in fixed relation to the frame, said members being disposed on opposite sides of the piston rod and each having a slot facing the portion of the piston rod projecting from the cylinder, a ring slidable along the piston rod adjacent the lower end of the cylinder, and ears extending from said ring into said slots, said slots having sides along which the ears are vertically slidable and having upper base surfaces which face downwardly and slant upwardly toward the piston rod for camming the mold-engaging members outwardly as the ears move vertically upwardly against said upper base surfaces of the slots, and said slots having lower base surfaces which face upwardly and support said ears after the mold-engaging members have swung toward each other into mold-engaging position, said cap being engageable with said ring to lift it and thereby carry the ears against the upper base portions of the slots to cam the mold-engaging members outwardly during a final portion of the retracting movement of the piston rod in the cylinder, said ring and the bottom of the cylinder having bearing surfaces which alternately slide along common portions of the outer surfaces of the piston rod during its cycle of downward and retracting movement.

2,641,807
INGOT MOLD
Edgar Marburg, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application December 6, 1950, Serial No. 199,384
9 Claims. (Cl. 22—139)

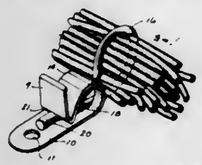
1. A rectangular ingot mold having relatively thin side walls and relatively thick end walls

and corners throughout the height of the mold, the distance from center to center of the thin sides on the internal periphery being at least



twelve inches, the ratio between the thickness of the end and side walls decreasing from the base to the top of the mold.

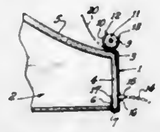
2,641,808
FASTENING DEVICE FOR ELECTRIC WIRES
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products Inc., Cleveland, Ohio, a corporation of Ohio
Original application January 11, 1945, Serial No. 572,311, now Patent No. 2,512,982, dated June 27, 1950. Divided and this application February 24, 1950, Serial No. 146,120
3 Claims. (Cl. 24—18)



1. A clamping body comprising a strip of resilient material doubled on itself to present two extreme arms connected by a return bend, one of the extreme arms being bent inward and then abruptly outward in V-formation to provide a clamping edge spring-pressed toward an intermediate region of the other extreme arm, said clamping body having a cut-out portion defining an elongated opening at the return bend, and a flexible loop having both ends passed from the exterior through said opening, one of said ends being attached to the body between the return bend and the clamping region, and the other of said ends being adapted to be clamped in various positions by said clamping edge.

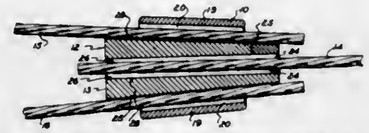
2,641,809
PENCIL HOLDER FOR TELEPHONE INSTRUMENTS
Raymond Kimball, Pasadena, Calif., assignor to Christine E. Perry, Pasadena, Calif.
Application March 3, 1950, Serial No. 147,392
3 Claims. (Cl. 24—81)

3. In a pencil holder adapted to be resiliently attached to the base of a telephone instrument: a flat body member adapted to engage a side of said base, said member being bent at one edge to form a corner adapted to engage a corresponding corner of said base formed by a top surface of said base and said side of said base: three integrally formed arcuate spring clips extending from the bent edge and spaced therealong, said clips all extending about substantially a common axis parallel to said one edge; the end clips extending in an opposite direction to the center clips, all of the clips extending substantially 180°, the end clips being engageable with one side of the pencil, and the central clip being engageable with the opposite side of the pencil;



and a resilient integral extension projecting from the opposite edge and forming with the body a confined space for frictionally engaging the telephone base, and for resiliently maintaining said flat body member against said side, and for resiliently maintaining said corner of said member in engagement with said corner of said telephone base.

2,641,810
PLURAL CABLE CLAMP
Lewis T. Gasink, Rose Township, Ramsey County, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a corporation of Delaware
Application March 14, 1949, Serial No. 81,308
2 Claims. (Cl. 24—126)



1. A self-tightening clamp comprising a body having an opening extending longitudinally therethrough bounded by spaced, oppositely disposed side walls and spaced, converging, oppositely disposed end walls of said body, wedges tapered in direction longitudinally thereof mounted in said opening between said converging, oppositely disposed end walls in the plane thereof and in engaged relation with said oppositely disposed side walls for slidable movement thereover in direction longitudinally of said body, slipping surfaces upon exterior portions of said wedges adjacent said converging, oppositely disposed end walls, respectively, movable toward each other in response to sliding movement of the wedges toward a smaller end of said opening, first parallel, elongated V-shape gripping surfaces upon material of said wedges sufficiently soft to be indented by an interior cable to be retained in said clamp disposed interiorly of the wedges in alined relation therewith to be grasped against elongated portions of opposed surfaces of said interior cable in response to forcible sliding movement of said wedges toward said smaller end of said opening, and second elongated V-shape gripping surfaces upon material of said body sufficiently soft to be indented by exterior cables to be retained in the clamp disposed interiorly of the body in alined relation with said wedges to be grasped against elongated portions of exterior surfaces of said exterior cables with sliding movement of said slipping surfaces over interior surfaces of the exterior cables in response to forcible sliding movement of said wedges toward the smaller end of said opening.

2,641,811
CLOTHESPIN
Clarence A. Morgan, Albany, Calif.
Application August 24, 1948, Serial No. 45,956
2 Claims. (Cl. 24—137)



2. A clothes pin comprising a pair of elongated relatively rigid members provided with opposed centrally disposed recesses and opposed jaw portions and diverging handle portions at opposite sides of the recesses, a coil spring seated in said recesses and secured to said members to provide a pivotal connection for said members and urge said jaw portions together and said handle portions apart, said spring resisting but permitting spread of said members from each other along their entire length, one of said handle portions being formed with an elongated slot, a seat formed in a margin of said slot, and a projection formed integral with the other of said handle portions and extending into said slot, said projection having a shoulder arranged to overlie said seat.

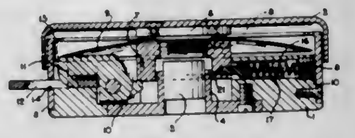
2,641,812
BELT FASTENER
Charles Boudreau, Granby, Quebec, Canada
Application November 21, 1951, Serial No. 257,491
In Canada November 22, 1950
1 Claim. (Cl. 24—176)



In a belt, a fastener comprising a plate mounted on the outer surface thereof at one end, a pin projecting outward from said plate, the other end of the belt being apertured to receive said pin, a strip secured at its ends and at an intermediate point to the inner surface of the first end to form a short pocket and a longer pocket, a loop passing through the shorter pocket and substantially fixed therein, and another loop passing through said longer pocket and slidable between said strip and said first end and adapted to enclose said pin and said apertured end.

2,641,813
QUICKLY RELEASABLE CONNECTING DEVICE
John Loxham, Letchworth, England, assignor to Irving Air Chute Company, Inc., Buffalo, N. Y., a corporation
Application September 27, 1950, Serial No. 187,096
In Great Britain September 28, 1949
10 Claims. (Cl. 24—205.17)

1. In a quick releasable connecting device for parachute harness fastener lugs and the like, the combination of a supporting body, said supporting body having a slot therein to receive a parachute harness strap lug for connection to said supporting body, a latch pivoted between its ends upon said supporting body having a detent at one side of the pivot axis for releasably restraining the lug upon said body, a dish shaped diaphragm-like spring mounted upon said body of a nature to reversibly flex so that its periphery moves upon said body for holding the latch at its detent end into locking position with respect to



a fastener lug and also to assume a position permitting release movement of said latch with respect to such a lug, and means upon said supporting body for flexing said spring between its latch holding and latch releasing positions.

2,641,814
SEPARABLE FASTENER
Richard A. Hartman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 25, 1951, Serial No. 207,806
3 Claims. (Cl. 24—221)



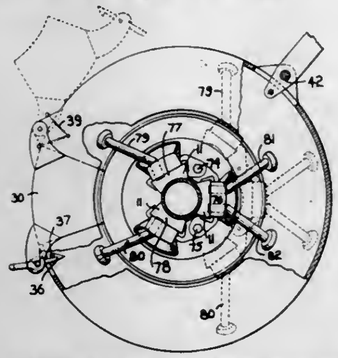
1. A fastening device comprising a piece of sheet metal bent to provide a pair of arms extending in the same general direction and adapted to clasp a part in self-sustained fastening position on said part, one of said arms having a stud passage including a lateral slot for passing a stud having a lateral lug, and the marginal portion of said stud passage being formed to provide a cam surface engageable by said lateral lug on the stud responsive to turning force on said stud, the latter arm having inwardly projecting means engageable with said part for maintaining said arm in resilient spaced relation to said part.

2,641,815
LICENSE PLATE HOLDER
Edgar C. Leighton, Springfield, Pa.
Application April 22, 1950, Serial No. 157,600
2 Claims. (Cl. 24—255)



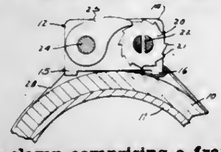
1. In a license plate holder, the combination of: a bar formed with a pair of spaced slots and having an outturned ear at each end thereof, a nut and bolt assembly associated with each of said slots for permanently securing said bar to the body of a motor vehicle, each of said nut and bolt assemblies presenting a head protruding from the face of said bar, and which heads are adapted to be received in the openings in a license plate to be held thereby, one of said ears being formed with an opening and the other with a slot opening onto the top edge thereof, and a bowed spring having a tongue at one end received in said opening with its other end received in said slot, said spring and bar being adapted to clampingly engage a license plate therebetween with the openings in the license plate receiving the heads of said bolts.

2,641,816
POWER OPERATED SLIP
Walter E. Liljestrand, Houston, Tex., assignor to Mission Manufacturing Company, Houston, Tex., a corporation of Texas
Application October 21, 1946, Serial No. 704,672
11 Claims. (Cl. 24—263)



1. A slip operating mechanism including a lift ring adapted for placement over a rotary drilling table, said ring having an opening and gate for passage of the ring to and from a pipe, a set of slips to fit the rotary table and suspend a pipe therein, said slips being suspended from said ring, an arm pivotally supported radially of the table to support said ring for lateral swinging over said rotary table, rotatable means on said slips which is rotatable in said ring as said slips rotate when gripping the pipe including a handle, a trackway in said ring to guide said rotatable means and thereby said handle as the ring is raised so as to retract the slip segments and provide a full hole opening, and means to raise and lower said arm and lift ring, said rotatable means normally being disposed above said trackway when said slips are gripping the pipe.

2,641,817
ADJUSTABLE HOSE CLAMP
Morris Brodheim, Philadelphia, Pa.
Application November 9, 1951, Serial No. 255,572
2 Claims. (Cl. 24—269)



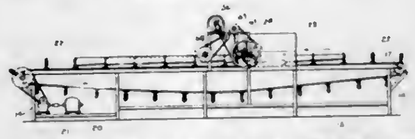
2. A hose clamp comprising a frame including spaced apart and substantially parallel side walls and spaced apart bars extending transversely of said frame one at each end of one side thereof and joined at their respectively opposite ends to said side walls at the respectively opposite ends of the latter, a longitudinally split winding element extending transversely of said frame near one end of the frame and journaled in said side walls, a ratchet wheel mounted on said winding element, a pawl pivotally mounted on said frame at a location spaced from said winding element and engaging said ratchet wheel to hold the latter in selected positions of rotational adjustment, and a flexible band secured at one end to the transverse bar nearer said winding element and extending across the space between said bars and over the other of said transverse bars, said band being connected at its other end to said winding element and adapted to encircle a hose on which the clamp is mounted.

2,641,818
APPARATUS FOR MOLDING CONCRETE PIPE
Hector X. Eschenbrenner, Columbus, Ohio
Application September 4, 1948, Serial No. 47,766
4 Claims. (Cl. 25—36)



1. In a packer head pipe-forming machine; a vertically arranged cylindrical outer form; a cylindrical inner core arranged to move vertically and axially with respect to said outer form to a position defining with said outer form an annular pipe-forming chamber for the reception of a pipe-forming mix; a shaft connected with and extending longitudinally outwardly from said core; means engaging said shaft for imparting axial rotation to said shaft and to said core, said last-named means permitting of vertical movement of said shaft during rotation thereof; a packer shoe carried by and extending radially outwardly from said core for engagement with the upper surface of a mix introduced within said chamber, said packer shoe being arranged on said core to press downwardly upon the upper surface of a mix introduced within said chamber upon rotation of said core to compact such mix within said chamber; and fluid pressure-responsive means connected with said shaft for selectively moving said core vertically upwardly or downwardly with respect to said outer form and for imparting adjustable and yieldable resistance to the upward movement of said shaft and core in response to an increase in the level of a mix introduced into said chamber.

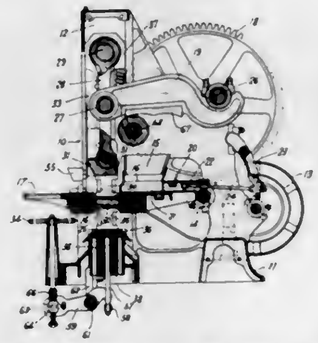
2,641,819
TILE MANUFACTURING MACHINE
Clarence Peavy, Miami, Fla.
Application December 9, 1950, Serial No. 199,979
5 Claims. (Cl. 25—41)



1. In a tile manufacturing machine, the combination of a hopper for plastic material, said hopper having an opened bottom portion, a

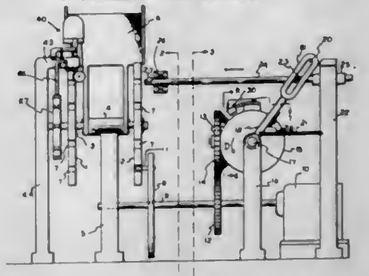
shaft rotatably mounted within said hopper adjacent an end wall of said hopper, a plurality of arcuate members having one end secured to said shaft and the other end extending radially therefrom, the sum total of said free ends forming a profile substantially identical to that of the tile being manufactured, means for rotating said shaft, and plate means mounted on said end wall, said plate means having an end portion extending to adjacent the free ends of said arcuate members substantially tangential to the arc described by said arcuate members when said shaft is rotated.

2,641,820
APPARATUS FOR MANUFACTURING BRICK
Heyward Rivers, Augusta, Ga., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application February 7, 1950, Serial No. 142,785
7 Claims. (Cl. 25—103)



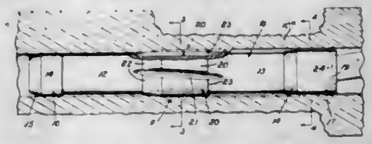
1. In brick manufacturing apparatus of the type including a hopper for containing mix, means forming a mold cavity for receiving mix and spaced from said hopper, die means operatively associated with the cavity to compress mix therein to form a brick and to eject the formed brick from the mold cavity, a charger having a mix receiving space and reciprocable between a rearward position in which it receives mix from said hopper and a forward position, and discharging mix into the mold cavity during advance toward such forward position, the mix receiving capacity of the charger being at least equal to the mold capacity before compression of the brick, said charger, in its mold cavity filling stroke, removing a formed brick ejected from the mold cavity by engaging the formed brick by pusher means mounted on the charger in forwardly spaced relation to the forward edge of the charger mix receiving space and, on its retraction toward such rearward position, removing excess mix from the surface of the mix filling the mold cavity; the combination comprising a trough mounted in advance of such forward position for containing a supply of fines; gate means controlling discharge of fines from said trough; spreader means supported by the charger between the charger mix receiving space and such pusher means and arranged to receive fines from said trough and to discharge said fines onto the surface of the mix in the mold cavity during such retraction of the charger; and abutment means on said gate means engageable by such pusher means to open said gate means when said spreader means is aligned with said trough.

2,641,821
SPOOL STRIPPER
Robert L. Sjostrom, Andover, Mass.
Application July 12, 1949, Serial No. 104,193
5 Claims. (Cl. 28—19)



1. A bobbin stripper of the type described comprising means for feeding the bobbins with residue threads thereon to a stripper mechanism, a stripping mechanism positioned adjacent one end of the bobbin comprising a cutting wheel mounted to be rotated close to tangential contact with the bobbin, a second smaller wheel positioned adjacent the cutting wheel and having circumferential convex hook-like members positioned to make contact with the bobbin and offset forward of the cutting wheel, means for rotating said smaller wheel faster than the cutting wheel, means for automatically bringing the stripping mechanism into contact with the bobbin to be stripped and keeping contact therewith and means for moving the bobbin longitudinally of itself whereby said bobbin is stripped and ejected from the stripper.

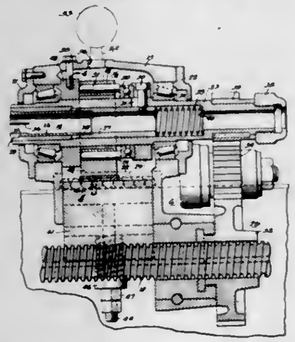
2,641,822
SWAGE RIFLING METHOD
Frederick W. Sampson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 21, 1945, Serial No. 611,851
2 Claims. (Cl. 29—1.1)



1. The method of producing rifled gun barrels, consisting in producing a cylindrical barrel blank of metal conforming to conventional requirements as to tensile strength, elasticity and a measure of ductility in a ratio proportionate to the width and depth of material to be displaced and a given radial measurement of wall in the blank, forming a bore in the blank of less than finished standard, forcing through the bore a forwardly tapered swage tool having helicoidal groove-forming runners thereon of a radius exceeding that of the radius of the finished rifle groove in the barrel by an amount proportionate to the resultant of the radial pressure required to displace material of the blank to the desired groove depth, the extent of distension of the blank under said pressure and its capability of elastic recovery, forcing through the grooved bore thereafter a cylindrical swage of a diameter exceeding the desired finished bore diameter by an amount similarly proportionate to said fac-

tors of the swaging and material of the blank to reform the material between the swaged grooves to a predetermined contour and finished diameter.

2,641,823
WORK HOLDER
John G. Zummach, Brownsville, Tex., assignor to Young Radiator Company, Racine, Wis., a corporation of Wisconsin
Application September 1, 1949, Serial No. 113,567
7 Claims. (Cl. 29—59)



5. A device of the class described comprising, a supporting frame, a housing mounted to traverse said frame, a lead-screw shaft journaled on said frame, means for rotating said shaft, a spindle journaled on said housing, gearing connecting said spindle with said shaft to effect the rotation of said spindle, a sleeve slidably mounted in said spindle, a collet connected to said sleeve and movable into and out of contact with a tapered bore on said spindle, a collar mounted for axial movement on said spindle, means connecting said collar with said sleeve to cause said sleeve and collar to move in unison, a radially-shiftable lead-screw engaging member mounted on said housing, an eccentric mounted on said spindle and engaging said member so that the rotation of said eccentric effects a shifting of said member radially of said spindle into meshing engagement with said lead-screw shaft, a thrust bearing mounted on said spindle in abutment with said collar, a cam ring mounted on said housing concentrically of said spindle, a plurality of cam surfaces formed on the face of said ring opposing said eccentric, pins axially-shiftable on said eccentric and interposed between said thrust bearing and said cam surfaces so that the rotation of said eccentric effects an axial shifting of said sleeve to cause said collet to grip a piece of work thereto simultaneously with the shifting of said member into meshing engagement with said lead-screw shaft, means for rotatably adjusting said cam ring on said spindle, and a manually operable lever connected to shift said eccentric.

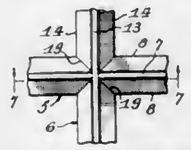
2,641,824
FASTENING MEANS FOR IRONER ROLL COVERS
Jack A. Skelton, Atlanta, Ga., assignor to Southern Mills, Inc., Atlanta, Ga., a corporation of Georgia
Application March 8, 1952, Serial No. 275,585
6 Claims. (Cl. 29—118)

1. In combination, a rotary ironer roll, a stud on the periphery of said roll, a fastening bar, a lug projecting from said fastening bar, said lug being detachably engaged by said stud, a cover of sheet material having one end folded under and positioned between said roll and said fastening bar, said sheet material being provided



with an aperture through which said lug extends, and padding material positioned about the periphery of said roll, said sheet material extending over said fastening bar and thence over said padding material and around said roll to cover said padding material.

2,641,825
METHOD OF MAKING METAL CROSS BAR JOINTS
Stafford Morley Sidney Adams, Windsor, Ontario, Canada, assignor to Truscon Steel Company of Canada, Limited, Walkerville, Ontario, Canada
Application June 22, 1949, Serial No. 100,715
1 Claim. (Cl. 29—148)

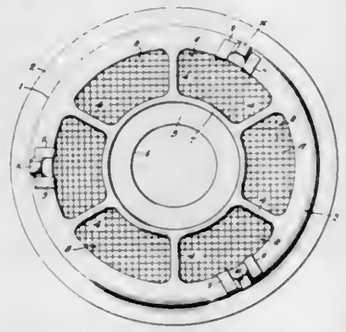


A method of joining, in interfitting and intersecting relation, a pair of bars each comprising a central web portion and aligned flanges projecting laterally in opposite directions from the web portion at right angles thereto, said method comprising slotting the flanges of at least one bar to provide for co-planar disposition of the flanges of the two bars at their point of intersection, slotting the web of each bar to provide a slot extending inwardly from one side edge of the web a distance such that, when the webs of the two bars are assembled in crossed interfitting relation with the solid portion at the inner end of the slot of each web contacting the inner end wall of the slot of the companion web, the flanges of one bar will be offset out of co-planar relationship with the flanges of the companion bar, assembling said bars with the webs disposed in the aforesaid crossed relationship, and then subjecting the bars to heat and pressure whereby the metal of the two webs is caused to flow and fuse together at the point of contact located at the inner ends of the slots and whereby the flanges of the two bars are simultaneously forced into co-planar relationship.

2,641,826
METHOD OF FORMING FILTER HOUSINGS
John J. Dreznes, Chicago, Ill., assignor to United Specialties Company, Chicago, Ill., a corporation of Delaware
Application January 29, 1949, Serial No. 73,594
3 Claims. (Cl. 29—148.2)

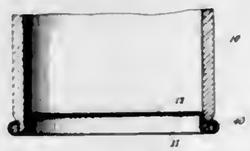
1. The method of forming a filter body which comprises the steps of shaping a piece of sheet

material into a generally cup-like shape having a bottom, removing separated portions of said bottom and providing thereby a plurality of openings, forming within said openings spacing members, each comprising a pair of leg-like members diverging from each other and an integral joining



part connecting said leg-like members, bending each joining part out of plane of said leg-like members and thereby moving the leg-like members of each pair toward each other and thereafter bending said leg-like members outwardly about and against said bottom.

2,641,827
METHOD OF MAKING FIBER DRUMS HAVING METAL CLOSURES
Herbert L. Carpenter, Amityville, N. Y., assignor to Carpenter Container Corporation, Brooklyn, N. Y., a corporation of Delaware
Application June 16, 1949, Serial No. 99,476
2 Claims. (Cl. 29—148.2)



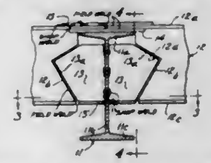
1. The method of making fibre containers having metal closures which comprises: first providing a tubular shell made of layers of fibrous material laminated together by a liquid-containing adhesive, said adhesive being still moist and the shell being moldable; then, while still in moldable condition, molding an end portion of the shell under compressive force applied to both surfaces thereof into an outwardly flared flange of cohesive, unitary construction; next applying to the flared end of the shell a unitary metal closure having an integral peripheral flange projecting beyond the flared flange of the shell with the flange of the closure resting on the flange of the shell; then rolling the flange of the closure downwardly over the flange of the shell; and finally, while the shell is still in moldable condition, simultaneously forming the flange of the closure and molding the flared flange of the shell into interlocked beaded engagement with each other, with the metal beading surrounding the fibre beading, thereby providing a cohesive, unitary fibre shell with a metal closure interlocked therewith.

2,641,828
ALIGNING AND FREEING BEARINGS
Armand F. Knoblaugh, Cincinnati, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio, a corporation of Ohio
Application January 3, 1949, Serial No. 68,845
3 Claims. (Cl. 29—149.5)



1. A process of producing piano action bearings which comprises providing a bifurcated wooden bearing holder with a hole in each bifurcation, providing a bearing material in the form of a braided sleeve of textile material, stiffening said sleeve by means of a coating of thermoplastic cementitious substance, inserting portions of said bearing material into said holes from opposite sides of said holder and trimming, inserting a shaft through said sleeve portions and through a member to be pivoted to said holder and located between the bifurcations thereof, and thereafter conditioning the bearing by subjecting the assembly to heat sufficient to soften said cementitious substance, said cementitious substance comprising nitrocellulose and said heat treatment being a heat treatment at substantially 135° F. for substantially one hour.

2,641,829
METHOD OF CONNECTING BEAMS TO GIRDERS
Maurice Sasso, Los Angeles, Calif.
Application October 2, 1945, Serial No. 619,787
6 Claims. (Cl. 29—155)

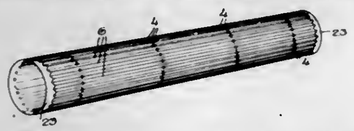


1. The method of angularly connecting a beam to a girder preferably by welding or otherwise, which consists in coping out an end portion of the web and flange of a beam, thus providing a bracket; then rigidly attaching said bracket to the web of a girder in a position to form a support for the end portion of the beam from which it is coped, then juxtaposing said beam to said bracket in such a manner as to be supported by the latter; and finally rigidly attaching the bracket to said beam in its original relation thereto.

2,641,830
METHOD OF MAKING CORRUGATED TUBES
Miles A. Lamb, Chicago, Joseph J. Klein, Glencoe, William C. Stranberg, Elmhurst, and Julius H. Frankowski, Chicago, Ill., assignors to Chicago Pump Company, a corporation of Delaware
Application November 2, 1948, Serial No. 58,002
6 Claims. (Cl. 29—156)

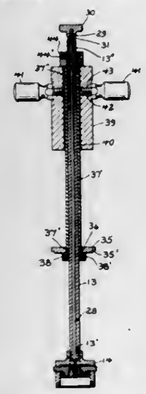
1. In a method of making a tube, the steps of rolling more than one half the length of a corrugated blank around one roll of a rolling

mill, removing the partially curved blank from the mill, reversing the partially curved blank and rolling more than half of its length around said roll to impart the same curvature to the entire



blank, holding said curved blank with the meeting ends in juxtaposition, placing solder along the seam between the meeting ends of said blank, and melting said solder to join said ends.

2,641,831
SLEEVE PULLER
William Henry Helton, Burns, Kans.
Application November 21, 1950, Serial No. 196,789
3 Claims. (Cl. 29—255)



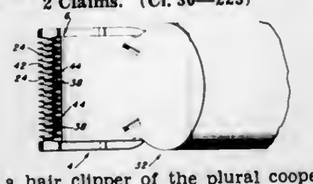
1. In a sleeve puller, an elongated hollow rod having an externally threaded portion at its upper end; a hollow housing attached to the lower end of the hollow rod adapted to fit inside the sleeve to be pulled and having a plurality of apertures therein extending substantially transverse to the axis of the hollow rod; a sleeve engaging means associated with said housing; a control rod extending through said hollow rod and connected with said sleeve engaging means whereby actuation of said control rod causes said sleeve engaging means associated with the housing to engage and disengage a sleeve to be pulled; said sleeve engaging means comprising a plurality of elements slidably mounted in said apertures of the housing and adapted in outwardly slid position to project beyond the confines of said housing to abut against the end of the sleeve to be pulled, biasing means urging the slide elements to slide in one direction in said housing apertures and means on the end of said control rod within the housing adapted to engage said plurality of slide elements to urge them in the opposite direction to said biasing means action when the control rod is moved in one direction and permitting the biasing means to move said slide elements in the opposite direction; a sleeve engaging plate having a threaded aperture at its center; means to adjustably connect said plate to said hollow rod intermediate its ends whereby the plate engages the opposite to said other end of the sleeve to be pulled comprising an elongated sleeve mounted over the hollow rod and having an internally threaded upper end in threaded engagement with said upper threaded end of the hollow rod and an externally threaded lower end for receiving the internally threaded sleeve engaging plate, whereby said elongated sleeve may be moved along said hollow rod by its threaded engagement with the hollow rod to position said sleeve engaging plate at a selected position intermediate the ends of the hollow rod; a head attached to the upper end of said hollow rod; and a hammer mounted concentric with said hollow rod for sliding movement between the sleeve engaging plate and the head whereby the hammer may strike the sleeve engaging plate and the head.

2,641,832
CHEESE AND BUTTER KNIFE
Philip T. Champlin, Little Valley, N. Y.
Application December 13, 1951, Serial No. 261,536
1 Claim. (Cl. 30—115)



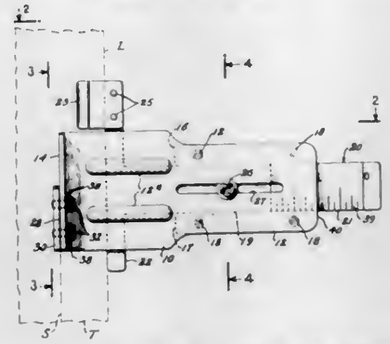
A cheese and butter knife including a flexible, thin and flat, oblong blade of uniform thickness and provided with square longitudinal edges converging slightly from a point near the rear end of the blade toward the forward end of said blade and curving rearwardly toward each other from said point to define a narrow flexible neck at the rear end of the blade, and a handle fixed to said neck to extend axially of the blade and having flexible junction with the blade provided by said neck, one side face of the blade being formed with a multiplicity of closely spaced, shallow, V-shaped flutes extending parallel to each other as well as parallel to the longitudinal axis of the blade and defining between the flutes a multiplicity of parallel beads having flat, narrow crowns all lying in a single plane common thereto, the flutes and beads covering the entire area of said side face of the blade and both longitudinal edges of the blade being adapted to selectively cut through the substance to be sliced when the blade is forced transversely of said beads and flutes through said substance.

2,641,833
HAIR CLIPPER WITH IMPROVED RECIPROCABLE CUTTER BLADE
Waldo H. Need, Gary, Ind.
Application May 10, 1951, Serial No. 225,505
2 Claims. (Cl. 30—223)



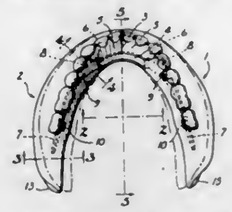
1. In a hair clipper of the plural cooperating cutter type, in combination, a relatively stationary bottom cutter blade having regularly spaced cutting teeth all uniform in length, and a relatively movable companion top cutter blade operatively mounted for reciprocation atop said bottom cutter blade and having spaced cutting teeth complemental to those of said bottom cutter blade, the latter teeth having cutting edges disposed in a common plane and spaced inwardly from the front ends of said cooperating first named cutting teeth and being constructed to provide two distinguishable series of teeth having outwardly and downwardly inclined top surfaces, the teeth of one series being long and all of the same length, and the teeth of the other series being short and all of the same length, said short teeth being alternately interposed between said long teeth.

2,641,834
LINOLEUM CUTTER
Stanley F. Bobrowski, New Britain, and Stanley L. Bobrowski, Bristol, Conn.
Application November 3, 1949, Serial No. 125,344
1 Claim. (Cl. 30—287)



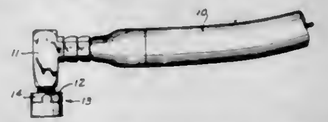
In a cutter for sheet linoleum, a pair of spaced parallel body plates having an elongated T-shaped gauge member slidably disposed therebetween, the outer edge of said gauge member being disposed inwardly of the outer ends of said plates so as to form therewith a guide means for an edge portion of a sheet of linoleum to be cut, and a pair of cutting elements rigidly attached to outturned flanges on the outer ends of said plates, respectively, said cutting elements extending inwardly at right angles to said plates for engagement with the opposite surfaces of said sheet while it is held by said guide means.

2,641,835
ARTIFICIAL DENTURE
Leo S. Greenmun, Avoca, N. Y.
Application September 21, 1950, Serial No. 185,980
24 Claims. (Cl. 32—2)



1. An artificial denture comprising molded base portions each having an end face in substantial contiguity with the end face of the other over the transverse cross-section of the denture, and a spring having a central portion extending across the juncture of said base portions in contiguity with edges of said end faces and having its end portions respectively embedded in the base portions, said spring securing said base portions together at said juncture and yieldingly resisting relative pivotal movement of said base portions.

2,641,836
DENTAL PLUGGER
James Douglas Morrison, Medicine Hat, Alberta, Canada
Application August 31, 1951, Serial No. 244,599
2 Claims. (Cl. 32—54)



1. A dental plugger comprising a base having a shank, said base having an inner transverse medial groove, a groove of greater diameter formed in said base and concentric with the first groove, said last named groove opening upon the periphery of the base, and a resilient working face having a retainer member of diameters corresponding to respective grooves.

2,641,837
PLASTIC TOOTH MOUNTING
Samuel J. Infante, Bloomfield, N. J., assignor to Peter B. Molinaro, Verona, N. J.
Application September 30, 1949, Serial No. 118,892
1 Claim. (Cl. 32—10)

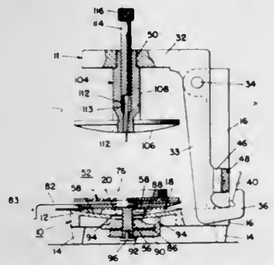


In an artificial tooth, the combination which comprises a tooth base, a centrally positioned vertically disposed post spaced from the said base and connected by a longitudinal web to the base, a tooth facing having a vertically disposed centrally positioned opening therein spaced from the inner surface and having a slot in the inner surface thereof communicating with the said vertically disposed opening, said facing having recesses in the inner surface positioned on opposite sides of the said slot, and a tubular lining in the said centrally positioned opening of the tooth facing having a longitudinally disposed slot at one side and having flanges extended from the walls at the edges of the said slot, the walls of the said lining extended through the slot of the tooth facing and positioned with the flanges thereof in the said recesses in the inner surface of the tooth facing.

2,641,838
DENTAL ARTICULATOR
Morris Beresin, Philadelphia, Pa.
Application January 22, 1951, Serial No. 207,133
28 Claims. (Cl. 32—32)

1. A dental articulator comprising a base member provided with a spherical depression for receiving a jaw model support, and a centric location plate mounted for slidable movement on said base member, toward and away from the

center of said depression, the inner surface of said centric location plate being on an arc of a



circle having the same center as the circumference of the spherical depression.

2,641,839
DENTAL HAND PIECE
Robert B. Black, Corpus Christi, Tex.
Application November 9, 1949, Serial No. 126,311
5 Claims. (Cl. 32—58)



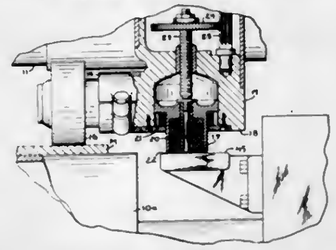
1. A dental hand-piece for use in treating teeth with a finely powdered material carried by a stream of gas comprising a tubular handle portion, a flexible tube entering one end of and secured within said handle portion, said handle and tube having an extended overlapping relationship, and a nozzle structure universally connected to the other end of said handle portion.

2,641,840
SKETCHING APPARATUS
Thurman W. Garriss, Burgaw, N. C.
Application November 30, 1951, Serial No. 259,200
2 Claims. (Cl. 33—20)



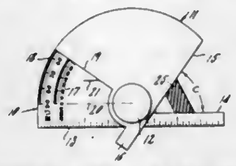
1. Sketching apparatus comprising a drawing board having an opening therein, means supporting said drawing board in upright position, a frame secured to said drawing board and disposed within said opening, a viewing screen mounted in said frame, a telescope secured at one end to said frame and carrying at its other end a lens spaced from said screen, said telescope having an opening therein adjacent said screen, a sketch receiving member mounted on said board at a location spaced from said frame, and a pantograph pivotally mounted on said board at a location spaced from said frame and said sketch receiving member and having a free end of an arm thereof extending through the opening in said telescope and carrying a tracing member adjacent said viewing screen and having a portion thereof overlying said sketch receiving member and carrying a scribing element.

2,641,841
ELECTROMAGNETIC GAUGING EQUIPMENT
Aaron G. Ladrach, deceased, late of Akron, Ohio, by Dorothy B. Ladrach, administratrix, Akron, Ohio, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application January 28, 1948, Serial No. 4,834
3 Claims. (Cl. 33—147)



1. The combination in an electromagnetic gauging device, of a rotatable support over which material to be gauged is passed, a holder, an electromagnet adjustably mounted in said holder, a relatively fixed element of magnetic material adjacent said electromagnet, a member engageable upon the material being gauged, said member movably supporting said holder with its electromagnet in spaced relation to said magnetic element and thereby providing a variable air-gap between the magnetic element and said electromagnet, variations in thickness of the material thereby correspondingly varying the magnitude of said air-gap, and means responsive to said air-gap variations for manifesting the variations in material thickness.

2,641,842
MEASURING INSTRUMENT
Finley R. Porter, Jr., Westfield, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 2, 1951, Serial No. 254,556
1 Claim. (Cl. 33—75)

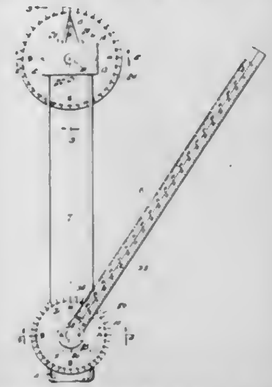


A combination measuring instrument for making measurements on V-belt and V-belt pulleys comprising a flat plane member having a first graduated straight edge terminating at one end in a projecting portion providing a second straight edge parallel to the first, a second flat member, said members being pivotally attached together in overlying parallel relationship, said second flat member having a first straight edge

extending radially from the point of attachment and a second straight edge perpendicular to said first straight edge, said second straight edge of said second flat member terminating at one end in a short narrow projecting portion of a length to extend in one direction from said point of attachment a relatively short distance across said first graduated straight edge on said first member so that it can be extended into the groove of a V-belt pulley, said second straight edge of said second flat member extending in the other direction a considerably greater distance beyond said second parallel straight edge on said first member whereby one side of a V-belt may be placed in contact therewith, a pair of graduated arcuate concentric scales on said first member, said scales having their center of curvature at said point of attachment, said first straight edge of said second member being of a length to extend across said scale so that it may serve as an indicator line, the graduations of one of said scales being such as to give a reading at the point where said first straight edge of said second member crosses said scale equal to twice the value of the angle existing between said second straight edge on said second member and a line perpendicular to said first straight edge on said first member whereby a direct reading of the groove angle of a V-belt pulley may be made, the graduations on the other of said scales being such as to give a reading at the point where said first straight edge of said second member crosses said scale equal to the value of the angle existing between said second straight edge on said second member and the second straight edge on said first member whereby a direct reading of V-belt angle may be made, and a reference line on said first member parallel to said graduated straight edge whereby when said members are angularly adjusted relative to each other so that said second straight edge of said second flat member is in alignment with said reference line, said first straight edge of said second flat member will extend beyond said first graduated straight edge on said first member and form a right angle square which may be used to measure the thickness of a V-belt.

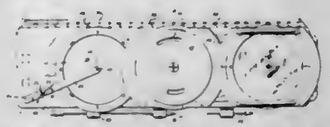
2,641,843
FLIGHT POSITION LOCATOR
Marion R. Hart and Francesco Collura, New York, N. Y.
Application December 26, 1951, Serial No. 263,313
1 Claim. (Cl. 33—75)

A device for showing flight position on a map, comprising a protractor arm made up of spaced parallel rods connected at one end by a cross bar having an opening therethrough to provide a reference center for location over a reference point on a map and having a pointer on the axis of the arm, a compass dial rotatably adjustable about said reference center and positioned with said pointer reading on the compass scale and whereby after obtaining a fix from a station in the heading direction said compass dial may be adjusted in respect to said pointer to the reading of the compass in such heading direction and the protractor arm then be positioned on a map of the terrain with the north of the compass dial aligned with north on the map and the protractor arm then in the heading direction with the reference center over the reference station from which the fix was obtained, a block slidingly guided over the parallel rods and having a reference opening therethrough between the rods on the axis of the arm to show positions on the map in the heading direction, a compass dial rotatably adjustable on said slide block about said reference opening, a pointer on said slide block, on the axis of the arm and registering on said second compass dial for enabling said second compass dial to be adjusted on the slide block to the same compass setting as the first compass dial, a second protractor arm pivotally adjustable on the slide block about said reference opening and having an axis readable on said second compass dial whereby said second protractor arm may be adjusted to the true direction of a second station at one side of the heading, clamp means for



securing the second protractor arm in relatively adjusted, angular relation on the slide block and said slide block having free sliding adjustment over said rods whereby after the second protractor arm has been secured in the angled relation pointing to a second station from which a fix has been obtained, the slide block may be adjusted longitudinally of the first arm to carry the axis of the second angularly adjusted arm into register on the map with the second station and whereupon the reference passage in the slide block will then show the present flight location on the map.

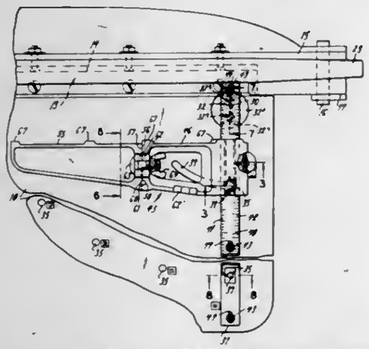
2,641,844
CROSS-COUNTRY NAVIGATIONAL INSTRUMENT
Milton S. Worley, Seattle, Wash.
Application September 26, 1951, Serial No. 248,437
1 Claim. (Cl. 33—75)
(Granted under Title 35, U. S. Code (1952), sec. 266)



A navigational instrument comprising a base member having a straight edge, a first pivot point on said member, said pivot point being spaced a predetermined distance from a point along said straight edge, a lever, means pivotally mounting said lever on said first pivot point, a second pivot point mounted on said lever and spaced said predetermined distance from said first pivot point, a compass rose, means rotatably mounting said compass rose on said second pivot point, and

means for selectively locking said lever in a position such that the axis of rotation of said compass rose will intersect said point on said straight edge.

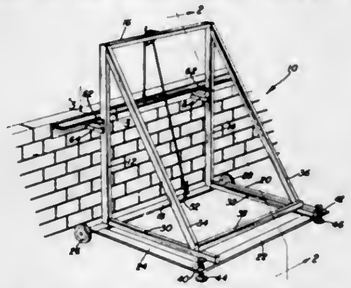
2,641,845
ANGLE GAUGING DEVICE FOR USE WITH SHEARS
Joseph J. Gundlach, Belleville, Ill.
Application January 13, 1950, Serial No. 138,458
4 Claims. (Cl. 33—76)



1. In a device for the angular measurement incident to cutting of flat severable units such as floor and wall tile, a frame, a bed plate on the frame, means defining a cutting or reference line along one margin of the bed plate, a swingable gauge bar movable over the bed plate, a pivot assembly for the gauge bar located forwardly of and in substantial spaced relation with the said reference or cutting line, the pivot assembly comprised of a pin element and a pin-journal element and means providing a universal adjustment of one of said elements with respect to and parallel to the gauge bar, a multiple scale element attached to the gauge bar bearing indicia applicable to the work unit in different angular positions of the gauge bar, and means enabling precision longitudinal adjustments of the scale element along the gauge bar, a plunger carried by the gauge bar and operable depthwise thereof and located remote from the gauge bar pivot, the bed plate being provided with a series of evenly angularly displaced plunger sockets arranged along an arc drawn on the center of the stationary element of the pivot assembly, the sockets being selectively engageable by the plunger for fixing the angular position of the gauge bar in selected relations to the reference line, and for accurately determining and adjusting the pivot axis of said gauge bar in said selected positions.

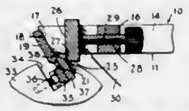
2,641,846
WALL ALIGNMENT APPARATUS
Manuel Zeno, Santurce, P. R.
Application February 14, 1950, Serial No. 144,153
1 Claim. (Cl. 33—85)

A block wall alignment apparatus comprising a horizontal base frame for positioning adjacent a wall, uprights rising from the forward end portion of said frame, a bar extending between the upper portions of said uprights, a pulley mounted on said bar, a straight edge engageable with the wall and including guides slidably engaged with the uprights, a cable trained over the pulley and connected to the straight edge for adjusting same verticaly on the uprights, supporting wheels journaled on said forward end portions of the



frame, and leveling legs threadedly mounted on the rear end portion of the frame for adjusting the straight edge toward or away from the wall.

2,641,847
JOINTER KNIFE SETTING GAUGE
Harold R. McCormick, Winslow, Ariz.
Application May 3, 1951, Serial No. 224,300
3 Claims. (Cl. 33—185)

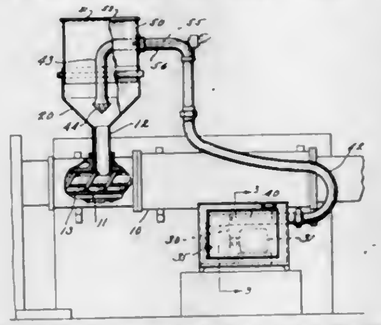


3. A gauge device for use in setting jointer knives comprising a block having a flat surface to slidably rest upon a table of the jointer, said block having a width corresponding generally to the length of the knife to be set, a member carried by one end of the block and projecting downwardly below the block to form an abutment when the flat surface of the block is resting upon the table, a second member slidably mounted upon the block in opposed relation to the first named member and shiftable toward and from the first named member and having a portion projecting below the flat surface of the block to form a second abutment when the block is resting upon the table, a portion of the flat surface of the block between the first named and second abutments engaging the knife to be set throughout substantially the entire length of the knife when the knife is introduced between the first named and second abutments, and adjustable means connected with said second member to move the second member toward the first named member for clamping the knife between the first named and second abutments.

2,641,848
APPARATUS FOR DRYING GRANULAR MATERIAL
Oran C. Wilson, Sandusky, Ohio, assignor, by mesne assignments, to Thoreson-McCosh, Inc., Detroit, Mich., a corporation of Michigan
Application June 22, 1949, Serial No. 100,611
2 Claims. (Cl. 34—48)

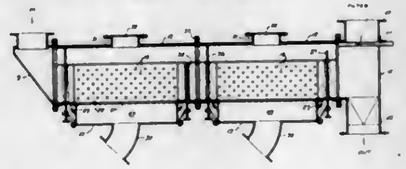
1. An apparatus for treating material in granular or powdered form while it is fed to a delivery means comprising in combination, a receiving hopper having a material discharge at its lower end, a hopper extension having an air pervious cover removably supported on the receiving end of the hopper, an air conduit carried by

the hopper extension and projecting downwardly into the hopper, said air conduit terminating in a conical apertured discharge head in surmounting spaced relation from the hopper material discharge, a blower unit adapted to be supported in proximity to said delivery means, said blower unit having an air delivery conduit, a tubular flexible air delivery connection from the blower air delivery conduit to the hopper air conduit, an electric heater in the blower conduit, a thermostat in the hopper conduit, an



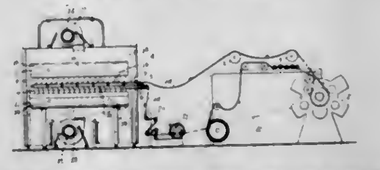
electrical switch under control of said thermostat, electrical energizing means interconnecting the switch and heater to control the air temperature in the hopper air conduit, and means for coupling the hopper material discharge to the material delivery means to provide a closed material delivery path from the hopper, whereby the heated air flow from the blower unit is guided upwardly from the hopper air discharge through the material in the hopper and outwardly through the air pervious cover on the hopper extension.

2,641,849
CEMENT COOLER
Mark Lintz, San Francisco, Calif., assignor to Fuller Company, a corporation of Delaware
Application September 22, 1950, Serial No. 186,247
1 Claim. (Cl. 34—57)



A cooler for pulverulent material comprising an elongated casing through which the pulverulent material to be cooled is adapted to pass, the major portion of the bottom of said casing being porous for the passage of a gas therethrough, an air chamber beneath said porous portion of the bottom of the casing, means whereby gas may be introduced into said air chamber for passage upwardly through said porous portion to aerate pulverulent material thereabove, an inlet for the introduction of pulverulent material into one end of said casing, an outlet for the discharge of pulverulent material from the other end of said casing, an outlet for the discharge of gas at said other end of the casing, a plurality of tubes extending transversely of said casing for the passage of a cooling medium, baffles in said casing extending transversely thereof and positioned to cause pulverulent material passing longitudinally through the casing to take a tortuous path, said casing, except for the inlet, the outlet and the porous bottom, being substantially closed to the passage of gas, whereby gas introduced into the casing for the aeration of pulverulent material is caused to be formed into an airstream passing in a tortuous path longitudinally of the casing which facilitates the movement of the aerated material through the casing and causes it to be brought into better heat-exchange relation to said tubes.

2,641,850
APPARATUS FOR CONTINUOUSLY TREATING LENGTHY CELLULOSE MATERIAL
Julien Dungler, Basel, Switzerland
Application February 7, 1950, Serial No. 142,773
In France February 16, 1949
1 Claim. (Cl. 34—156)



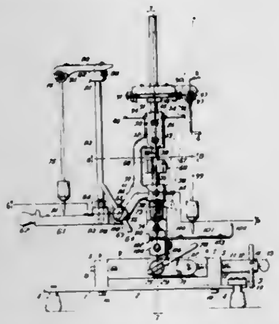
An apparatus for continuously treating lengthy web material having a wet treated surface; comprising a heating chamber provided with a wall having open slot means, oppositely arranged rows of blowing nozzles in said chamber directing treatment fluid for impingement upon said surface, said rows of nozzles being spaced a predetermined distance from each other to thereby form a treatment path for said material, said nozzles being only spaced an extremely small distance from the material surface when the latter passes through said chamber, to thereby make effective the impingement of said treatment fluid on said surface, exhaust channels arranged intermediate adjacent nozzles of each row of nozzles whereby spent treatment fluid map be withdrawn from said path, a plurality of substantially parallel idler rollers for said material disposed within said path to thereby obtain said distance of said material from said rows of nozzles whereby treatment passageways are defined between one row of said nozzles and one side of said rollers and between the other row of said nozzles and the other side of said rollers, at least some of said rollers being arranged intermediate opposite nozzles, other opposite nozzles being devoid of said rollers and laterally spaced from the latter, said rollers forming guide means for said material whereby said wet treated surface thereof is first exposed to treatment in one of said passageways while said material is being guided from without said chamber through said slot means over said rollers and then exposed to treatment in the other passageway, thence out of said slot means without said chamber, said rollers being adapted to support said material in substantially taut condition when said treatment fluid is directed from said nozzles against said wet treated surface, and feed means without said chamber and adjacent said slot means and adapted to move said material substantially under tension from said slot means of said chamber into the latter and over said sides of said rollers back to said slot means of said chamber for discharge therefrom.

2,641,851

LABORATORY APPARATUS FOR DEMONSTRATING AND INTERPRETING GAUGE TESTS OF WHEELS

George H. Taber, Elmira, N. Y.

Application March 6, 1951, Serial No. 214,115
19 Claims. (Cl. 35—13)



5. A demonstrating apparatus of the class described comprising a base, a horizontal member journaled on the base for rotary movement on its horizontal longitudinal axis, a vertical member composed of a lower block rectangular in cross section and an upper round rod mounted on the block, means for pivotally mounting said block on the horizontal member for tilting movement longitudinally thereof, and a horizontal support secured to the upper portion of the vertical rod, gravity acting pointer members suspended from the horizontal support and arranged to swing in planes at right angles to each other and longitudinally and transversely of said horizontal member, scale supporting plates secured to the block and extending therefrom at right angles thereto and provided with graduations cooperating with the pointer members for indicating the extent of tilting movement of the vertical member longitudinally thereof and also transversely of the same on the longitudinal axis of the horizontal member, a knuckle member mounted on the round rod for horizontal rotary movement thereon, a horizontal scale plate secured to said rod, a pointer carried by the knuckle member and extending over the horizontal scale plate and movable over the graduations thereof when the knuckle member is turned on said rod, a horizontal spindle member mounted on the knuckle member for pivotal movement in the vertical plane of said rod, and means for securing the spindle member in pivotal adjustment with respect to said knuckle member.

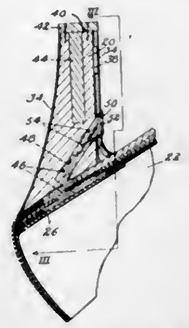
2,641,852

SHOE AND HEEL ATTACHED THERETO

James F. Leahy, Beverly, and George F. C. Burke, Fairhaven, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application November 30, 1950, Serial No. 198,400
2 Claims. (Cl. 36—24.5)

1. A shoe having an anchoring cavity in its heel seat and having a heel an attaching face of which is provided with an anchoring cavity and which has a passage extending to its breast from said cavity, said cavities, said passage and voids formed between the heel seat of the shoe and the attaching face of the heel being substantially filled with hardened thermoplastic resin serving permanently to secure the heel to the shoe, a rigid cap which engages the breast of



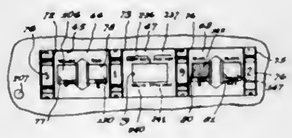
the heel and overlies a heel breast end of the passage, and an extension on said cap anchored in the resin in said passage.

2,641,853

COLOR ANALYZING AND SYNTHESIZING DEVICE

Herbert W. Helding, Highland Park, Ill.

Application July 16, 1949, Serial No. 105,191
4 Claims. (Cl. 35—28.3)



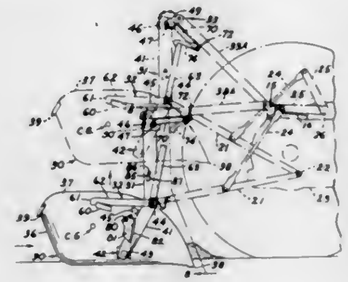
1. A device of the character described comprising a housing having one window designated as a composite color window and a plurality of other windows, a shaft in said housing, a plurality of wheels independently mounted for rotation on said shaft within the housing, said wheels being co-axially mounted on the shaft, means for rotating each wheel from outside the housing, each wheel having a pair of translucent cylindrical members rotatable therewith, one of each pair of cylindrical members having a peripheral band of a predetermined process color used in color printing and each said band having a plurality of colored areas of sequentially graded intensity, the second of each pair of cylindrical members having intensity and color identifying elements arranged parallel to the colored areas so as to rotate simultaneously therewith, said wheels being spaced along the shaft with the said first cylindrical member of each wheel in overlapping relationship one relative to the other and in registration with said composite window for viewing a composite color resulting from a single colored area of each first cylindrical member registering with said composite window and with the second cylindrical member of each wheel having its identifying elements adapted to register with one of said other windows, said wheels being rotatable so as to dispose a composite color opposite said composite window and the individual elements which make up the composite color, both as to intensity and kind, opposite said other windows.

2,641,854

EARTH-MOVING ATTACHMENT FOR TRACTORS

Noral A. Nelson, Berkley, Mich., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application January 4, 1947, Serial No. 720,206
15 Claims. (Cl. 37—126)



1. In a dig-and-carry earth moving attachment for mounting on a tractor having a power operated draft link and a vertically spaced compression link trailingly pivoted on its rear end portion for vertical swinging motion, the combination of a generally scoop shaped scraper bowl having a forward cutting edge along the fore part of its bottom, means for detachably connecting said bowl to the draft link for bodily raising and lowering by the latter as well as for fore and aft tilting of said bowl about a transverse axis, said axis being located forwardly of and below the center of gravity of said bowl but above and rearwardly of said cutting edge, latch means including a linkage pivotally mounted adjacent the connection between said detachable connecting means and the draft link, said latch means being adapted to releasably restrain said bowl against tilting rearwardly about said axis beyond a slightly rearwardly inclined carrying position into overturned dumping position while still leaving said bowl free to cant forwardly through a limited distance into digging position under the influence of ground suck, and a releasing hook for said latch means, said hook being adapted for attachment to the compression link in proximity with said linkage.

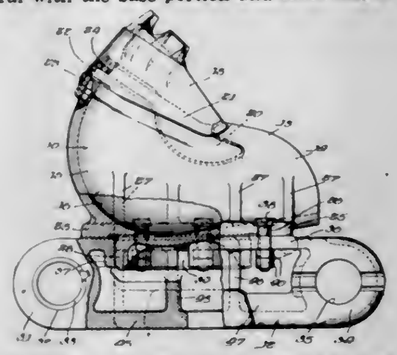
2,641,855

DREDGE BUCKET CONSTRUCTION

Thomas C. Whisler, Alameda, Calif., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware

Original application October 16, 1947, Serial No. 780,232. Divided and this application June 30, 1949, Serial No. 102,385
4 Claims. (Cl. 37—191)

1. An excavator bucket, in combination, a hood portion providing a dredge bucket and having a depending annulus, a base portion having an opening centrally thereof for receiving the depending annulus whereby the hood and base portions may be joined in assembled relation, securing means for releasably securing the said portions in assembled relation, and reinforcing means for the base portion including a rib integral with the base portion and extending substantially diametrically of the opening below the same.



2,641,856

ADVERTISING DISPLAY CLOCK ASSEMBLY

Christian Gabrielsen, Whippany, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York

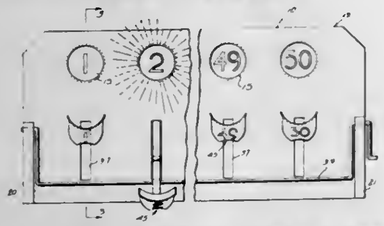
Application August 11, 1949, Serial No. 109,713
4 Claims. (Cl. 40—34)



4. An advertising display clock including in combination a mirror comprising a sheet of transparent material and a backing of reflecting material, a framework for mounting said mirror, a frame, means for pivotally mounting said frame behind said mirror, readily releasable means adjacent the upper portion of said frame for permitting the upper end thereof to pivot downwardly away from the mirror, said reflecting material being formed with a plurality of openings to provide a plurality of windows, clock numerals carried by the transparent material adjacent one of said windows, the other of said windows having the form of an arcuate segment radially displaced from said first window, a clockwork housing carried by the frame, clockwork positioned within said housing, clock hands driven by said clockwork positioned adjacent said first window, a second housing, a prime mover positioned within said second housing, a shaft driven by said second prime mover, a pulley carried by said shaft, a disk, a second pulley, means for mounting said disk upon said second pulley, a bushing carried by said clockwork housing concentric with the

axis of rotation of the clock hands, said bushing adapted rotatably to support said second pulley, a belt extending between said pulleys for driving said disk from said second prime mover, and an advertising display carried by said disk visible through said second window.

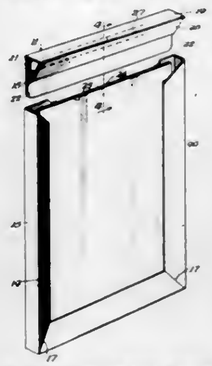
2,641,857
ILLUMINATED SCORING DEVICE
Walter A. Wilhelm and Cecil A. Pedersen, Salina, Kans.; Pearl E. Wilhelm and Richard J. Wilhelm, administrators of said Walter A. Wilhelm, deceased
Application May 12, 1950, Serial No. 161,496
1 Claim. (Cl. 40—65)



In an illuminated scoring device, a base, a housing having a plurality of spaced apertures in the front wall thereof positioned on said base and secured thereto, a light-emitting source mounted in said housing, a display board disposed in abutting relation with respect to the front wall of said housing and supported on said base, said board being provided with a plurality of transparent indicia arranged in spaced relation therealong, said indicia being positioned in alignment with the apertures in said housing, a door positioned intermediate each of the openings and the adjacent aligned indicia and mounted in said board for movement into and out of closing relation with respect to said aperture, a horizontally extending lever positioned below each of said doors and having one end mounted on said base for movement from a horizontal position to a downwardly inclined depressed position, the other end of said lever extending exteriorly of said base, link means positioned below each of said doors and having one end secured to the bottom of said door and having the other end secured to the adjacent lever, manually actuable means operatively connected to the exteriorly extending end of the lever for effecting the movement of the latter, and restoring means rotatably supported on said base beneath said levers and engageable intermediate its ends with the depressed ones of said levers for restoring the same to said horizontal position.

2,641,858
DISPLAY FRAME
Ned Burr, Chicago, Ill., assignor to Chicago Cardboard Company, Chicago, Ill., a corporation of Illinois
Application March 20, 1946, Serial No. 655,841
1 Claim. (Cl. 40—155)

A foldable display picture frame comprising a single sheet of flexible sheet material, three marginal edges of which are cut, scored and foldable inwardly over a central picture plate, then outwardly, rearwardly and attached to the back of the plate at the three corresponding edges of the frame to provide a hollow inwardly beveled raised frame surrounding the picture frame, a fourth frame section of similar sheet material cut, scored and foldable over inwardly, then outwardly and rearwardly and the end portions attached together so that they will slidably engage over the open end of the first frame, all of said folds and score lines being parallel to each other and to the center panel, and a spacer enclosed within the inward fold of each of the frame sections



and also of the fourth frame section and terminating at a distance within the edge of each section, the spacers extending entirely around the frame so that a picture may be inserted at the fourth end of the first frame when the fourth frame section is removed and slipped into place parallel with the spacers, and the edges of a picture plate being contained within the inwardly turned marginal edges of all of the sections.

2,641,859
METHOD OF SCULPTURING
Calvin Albert, Brooklyn, N. Y.
Application December 28, 1949, Serial No. 135,454
10 Claims. (Cl. 41—25)

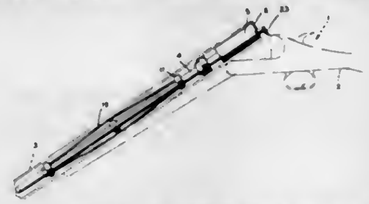


1. A method of making metallic models which comprises the steps of crumpling relatively thin and pliant sheets of metallic material to compact the same while manipulating the same by manual molding pressure to produce a basic form similar to but slightly larger than the ultimate model to be made, fusing the surfaces of said basic form by applying manually a heated device to produce a hardened and somewhat smoothed outer shell while imparting the final contours thereto and then subjecting the model so produced to a surface finishing operation.

2,641,860
SUBCALIBER ATTACHMENT FOR BARRELS OF GUNS
James M. Dial, Orlando, Fla.
Application October 24, 1949, Serial No. 123,270
4 Claims. (Cl. 42—77)

1. A subcaliber attachment for the barrel of a gun comprising a barrel member receivable in

the gun barrel, a pair of sleeves spaced apart along the barrel member and provided with openings, a plurality of leaf springs having their end portions engaged in said openings, and inde-



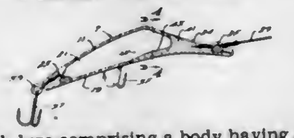
pendently adjustable means intermediate said sleeves underlying the mid-portions of the springs for holding them selectively adjustably expanded into direct engagement with a gun barrel containing the attachment.

2,641,861
FISHING DEVICE
Joseph Doran, St. Louis, Mo., assignor to Joseph J. Doran, Barrington, Ill.
Application March 18, 1947, Serial No. 735,385
2 Claims. (Cl. 43—37)



1. In a device of the kind described and in combination, a casing adapted to be connected at one end to a fishing line, a laterally projectable hook pivotally mounted on said casing and normally held entirely sheathed within the confines of said casing, a transversely extending bait-holder mounted on said casing intermediate the ends of said casing, and means on said casing closely adjacent said bait-holder and said hook and fish-actuated to release and unsheath said hook through movement of said fish in its attempted removal of said bait that is held in said holder.

2,641,862
FISH LURE
Howard W. Poe, Detroit, Mich., assignor to Lawrence W. Westerville, Grosse Pointe, Mich.
Application March 7, 1947, Serial No. 733,165
4 Claims. (Cl. 43—42.31)



1. A fish lure comprising a body having greater length than width including a hollow head portion and a hollow tail portion, one end of each portion being open and having an edge in a plane at other than a right angle to the longitudinal axis of that portion, each portion having lateral projections constituting an integral portion thereof and having their longitudinal axes lying in substantially the same plane, the plane of each projection being substantially parallel to the adjacent plane of the bottom surface of said portion, the head portion having a section of its bottom surface at an obtuse angle to the portion thereof substantially parallel to its projections, the head portion having the front end of its hollow substantially in line with the front end of its projections, the rear end of the hollow of the tail portion having diverging sides merging into a transverse end wall, and a globule of mercury within the hollow of the portions of such dimension that when it is located in the rear end of the tail portion its width will be less than the average width of the hollow portions, said portions being secured together at the open ends along the inclined edges and being provided with line and hook securing means at opposite ends thereof and said projections being provided with hook securing means.

2,641,863
WHEELED TOY
John Pinkney Gowland, Santa Barbara, Calif.
Application October 27, 1950, Serial No. 192,475
In Great Britain October 29, 1949
4 Claims. (Cl. 46—99)



1. A toy automobile comprising an articulated automobile body having a front part supported on front road wheels and a rear part supported on rear road wheels, said front part including bonnet and scuttle portions of the automobile and a steering column fixed to the rear of said scuttle portion and carrying a steering wheel, said rear part including a driving seat, means hinging said body parts together about a transverse pivot disposed between said front and rear wheels in the vicinity of the base of said scuttle portion, and manual control means including relatively movable parts connected to said body parts respectively and extending from said body for relative movement to draw said body parts pivotally towards each other on their supporting wheels and thereby cause them to buck upwards at their hinge.

2,641,864
WALKING FIGURE TOY
Jacques Villemejane, Paris, France, assignor of one-half to Compagnie du Celluloid Petitcollin-Oyonnithe, Paris, France, a corporation of France
Application April 19, 1948, Serial No. 21,959
In France May 5, 1947
6 Claims. (Cl. 46—105)

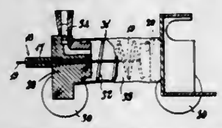
1. A walking doll which comprises, in combination, a body, two feet, the rear part of the sole

of each of these feet being arranged to oppose less friction than the front part thereof to longitudinal running on the floor, two rods journalled to said feet about respective transverse axes located in the rear portions of said feet, said rods extending upwardly and being both pivoted to said body about a common transverse pivot axis, two rods pivoted to said feet about respective transverse axes located ahead of the above mentioned axes, said last mentioned rods extending upwardly, a transverse spindle carried by said body parallel to



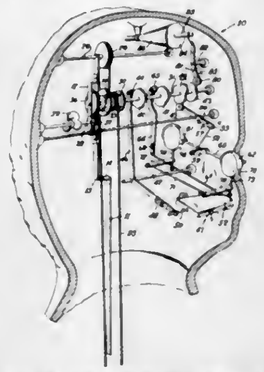
said pivot axis and located ahead thereof, the two last mentioned rods being provided with longitudinal guiding slots respectively, said transverse spindle slidably engaging said slots, a crankshaft journalled in said body about a transverse axis located above said transverse spindle and having crank pins at 180° to each other, said crank pins being journalled in the upper parts of the two second mentioned rods respectively, and motor means carried by said body for rotating said crankshaft.

2,641,865
TOY LOCOMOTIVE
John Pinkney Gowland, Palo Alto, Calif.
Application April 5, 1948, Serial No. 19,041
In Great Britain April 8, 1947
2 Claims. (Cl. 46—113)



1. A wheeled pull-along toy representing a locomotive having a longitudinally extending boiler, the toy comprising a front part representing the front end of the boiler, a pair of running wheels rotatably attached to said front part, a rear part separate from said front part representing a driver's cab, a further pair of running wheels rotatably attached to said rear part, a cylindrical longitudinally collapsible bellows interposed between said front and rear parts to represent a substantially cylindrical further portion of the boiler, one end of said bellows being attached to said front part to form a continuation of said front end of the boiler and the other end of said bellows being attached to said rear part to represent the boiler connection to said driver's cab, whereby said bellows forms a removable connection between said front and rear parts, spring means in said bellows for normally maintaining it in its substantially cylindrical extended position, a flexible sheath attached to the said front part, a flexible core positioned within said sheath for longitudinal movement therein, one end of said core extending from said attached end of the sheath and being connected to the rear part of the toy, and manually operable actuating means for exerting a pull at the free end of said core relative to said sheath to longitudinally contract said bellows against the action of said spring means, thereby reducing the distance between said front and rear wheels.

2,641,866
GRAVITY-ACTUATED MOVABLE DOLL
Charles Schiller, Elmont, N. Y.
Application August 30, 1951, Serial No. 244,356
5 Claims. (Cl. 46—120)

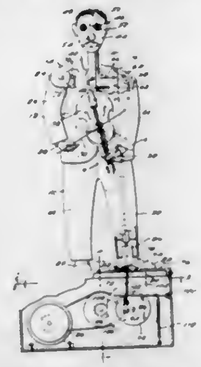


1. A toy doll of the character described having movable parts and a mechanism for moving said movable parts, said mechanism comprising a weight mounted in said doll for longitudinal movement therein in either direction, a cable connected to said weight, a rotatably mounted drum connected to said cable, whereby movement of the weight in one direction causes the drum to rotate in one direction and movement of the weight in the opposite direction causes the drum to rotate in the opposite direction, a rotatably mounted shaft, a clutch connecting said drum to said shaft to cause rotation of said shaft when the drum rotates in one direction, said drum having no influence upon said shaft through said clutch when the drum rotates in the opposite direction, a plurality of cams fixed to said shaft, a plurality of cam followers mounted for engagement with said cams, and linkages connecting said cam followers to said movable parts of the doll.

2,641,867
MECHANICAL FIDDLER
Kent Kane McEntyre, Calhoun, Ga., and Alvin R. McEntyre, Gadsden, Ala.
Application April 11, 1950, Serial No. 155,217
4 Claims. (Cl. 46—144)

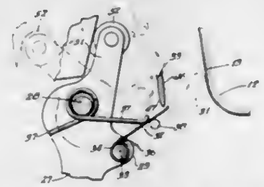
1. In an animated figure including a hollow body having a neck opening, a hollow arm, a movable solid arm and a head; the animation transmitting mechanism which comprises a post disposed vertically in the body and extending upwardly through the neck opening, a pivot coupling between the post and the body below the neck opening and above the lower end of the post, an elongate lever within the body and pivoted intermediate its ends for oscillatory motion, a hand pivotally coupled to the hollow arm, a power mechanism including a pull element, a pull cable operatively coupled between said element and the movable arm to actuate the latter, a pull cable operatively coupled between an end

of said lever and said pivoted hand, and a pull cable connected at one end to said pull element



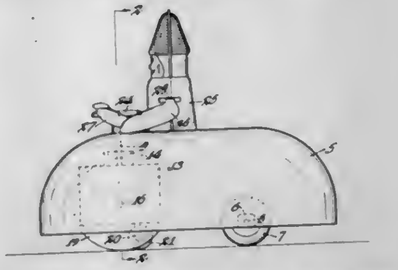
and connected at its other end to the other end of the said lever and to the lower end of the post to oscillate said post and lever in unison.

2,641,868
PAPER BURSTING TOY GUN
Alfred F. Langos, Chicago, Ill., assignor to Langson Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application July 5, 1950, Serial No. 172,052
1 Claim. (Cl. 46—195)



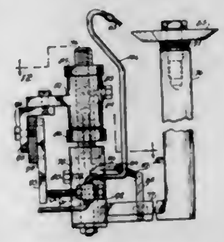
In a paper bursting toy having feedable burstable paper and means adapted to be cocked and released for bursting said paper, the mechanical means for feeding the paper through the gun and for cocking and releasing said paper bursting means to cause the same to burst the paper, said mechanical means including in combination a pivoted trigger adapted for operation in a cocking movement and in a return movement, a paper feed mechanism including an arcuately movable flat resilient arm pivoted at one end to said trigger, having a paper feed member secured thereon at the other end and being concurrently operable with the trigger for engaging and feeding said paper during a portion of the travel of said trigger while in a cocking movement, said resilient arm having a notch portion and a shoulder portion spaced in order respectively from the pivoted end of said arm, and fixed guide means on said toy spaced relative to the arcuate travel of the arm so that the notch of said arm straddles the fixed guide means and has an edge thereof in engagement with said guide means during a paper feeding operation, with said guide means engaging said shoulder portion of said flat resilient arm on the return movement of said trigger for pivoting said arm on said trigger and maintaining the feed member on the arm out of contact with said paper during such return movement so as to prevent tearing or displacement of the paper upon such return movement.

2,641,869
TOY STEERING MECHANISM
Douglas D. Raze, Minneapolis, Minn.
Application August 3, 1949, Serial No. 108,333
3 Claims. (Cl. 46—211)



1. In a toy device, a frame unit, a rotary powered wheel and axle unit connected to and supporting at least a portion of said frame and tiltable about a horizontal axis relative to said frame, and a steering member carried by one of said units and shiftable with said wheel and axle unit during such tilting movement to elevate one side of said wheel and axle unit while leaving the other side of said wheel and axle unit to track in a curve.

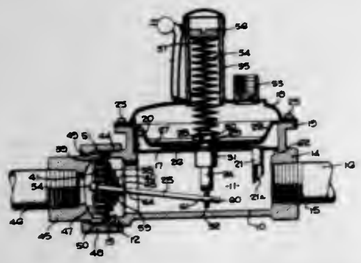
2,641,870
CONTINUOUS TUBE CRACK-OFF MACHINE
Charles Eisler, South Orange, N. J.
Application December 6, 1950, Serial No. 199,380
2 Claims. (Cl. 49—50)



1. In an apparatus for cracking glassware, a bracket adapted to be mounted upon a carrier and having a vertical bore, a threaded shaft extending vertically through the bore of said bracket and being freely slidable vertically therein and having a vertical groove, a pin carried by said bracket and engaged in said groove and preventing rotation of the shaft in the bracket, nuts upon said shaft above and below said bracket serving to shift the shaft vertically and said nuts being engageable with the upper and lower ends of the bracket to grip the bracket therebetween and secure the shaft in a vertically adjusted position, a support carried by said shaft, a post carried by said support and extending upwardly in laterally spaced relation to the support and the bracket, a crack-off member

carried by said post, and a pipe carried by said support and provided with a nozzle directed towards the crack-off member.

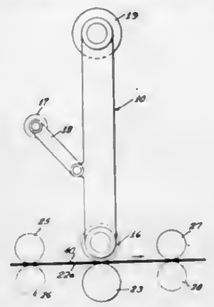
2,641,871
PRESSURE GOVERNOR
William A. Ray, North Hollywood, Calif., assignor to General Control Co., a corporation of California
Application July 29, 1950, Serial No. 176,687
3 Claims. (Cl. 50—26)



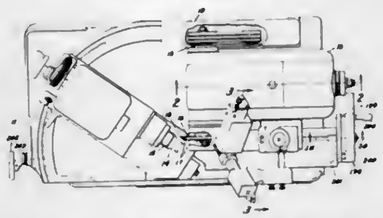
3. In a pressure regulator: a valve body having an inlet passage and an outlet passage aligned with said inlet passage and a chamber between said inlet and outlet passages; a first plate detachably secured to said body and extending across said inlet passage, said plate having through ports; a second plate having through ports adapted to register with said first plate, said second plate having a surface adapted to contact said first plate; said members having means guiding said second plate for linear sliding movement with respect to said first plate; an arm having a free end extending into said chamber, said arm extending through said first plate; said first plate having an aperture accommodating said arm and providing a pivotal support therefor; means connecting the other end of said arm to said second plate, including means providing a spherical surface on said arm and means providing a cooperating seat in said second plate, said connecting means being so arranged that movement of said spherical surface into engagement with said seat urges said second plate against said first plate; resilient means urging said arm toward seating relation; and an operator for said arm, said operator extending into said chamber and movable transversely thereof, said operator having an aperture accommodating and supporting the free end of said arm.

2,641,872
METHOD FOR THE UNIFORM DRESSING OF CONTACT ROLLS
Charles H. Boehm, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 2, 1951, Serial No. 218,751
2 Claims. (Cl. 51—2)

1. In a polishing operation wherein a substantially flat workpiece is polished by passage between a driven abrasive surfaced contact roll and an idler roll, the steps of dressing said roll comprising periodically removing said abrasive surface from said contact roll, applying an abrasive surface to a plane member having the thickness of said workpiece and passing said plane member between said contact roll and said idler roll with the abrasive surface of said plane member in pressure contact with said contact roll to thereby effect abrasion of said contact roll.



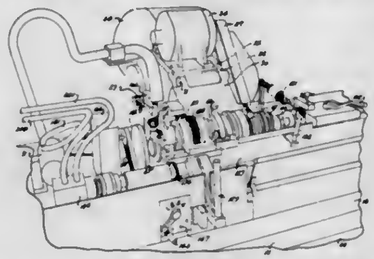
2,641,873
AUTOMATIC TRUING MECHANISM
Frederick S. Haas, Orgonia, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application March 5, 1949, Serial No. 79,892
5 Claims. (Cl. 51—5)



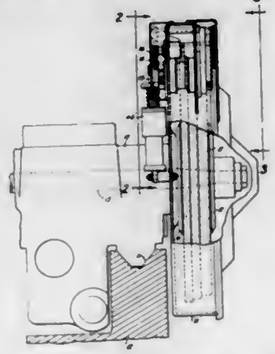
1. In a grinding machine having a bed, a grinding wheel support and a work support mounted thereon, the combinattion of a feed screw supported by the bed and operatively connected to one of said supports, manually operable means connected to the feed screw for imparting rotation thereto including a plate fixed with said screw, a power oscillatable member supported for free rotation on the screw and having a definite stroke for imparting an indexing movement to said screw, and electro-magnetic means carried by said member and energizable for coupling the member to the plate in any rotatable position thereof upon connection of power to said oscillatable member.

2,641,874
GRINDING MACHINE
Roy G. Kirby, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application January 21, 1950, Serial No. 139,815
7 Claims. (Cl. 51—101)

2. A cam grinding attachment for grinding machines which embody a base, a work table, a grinding wheel support and means for effecting relative translatory and feeding movements of the work table and grinding wheel support with respect to the base, said attachment including a base plate adapted to be mounted on the table, a carriage supported by the base plate for oscillation with respect thereto, a headstock unit mounted on the carriage, variable speed driving means for effecting rotation of the headstock unit, and control means effective during oscillation of the carriage to vary the rate of rotation imparted to the headstock by said driving means, said means including a rotary controller and connections between the carriage and controller actuable by oscillatory movement of the carriage for effecting speed varying rotation thereof upon oscillating movement of the carriage.

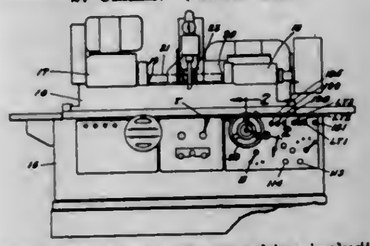


2,641,875
GRINDING WHEEL SPEED REGULATOR
Roy G. Kirby, John M. Morgan, Jr., and Jacob Decker, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application September 26, 1951, Serial No. 248,366
6 Claims. (Cl. 51—134.5)



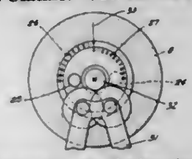
4. In a grinding machine, the combination of means for regulating the rate of rotation of the grinding wheel in accordance with the diameter thereof including a power operable motor for rotating said wheel, rate control means for said motor settable by a feeler arm normally in engagement with said wheel when the motor is stopped, power operable means to effect disengagement of said arm, a control circuit for energizing said power operable means and said motor, stop means for limiting the disengaging movement of said arm and thereby determining the setting of said rate control means, and means responsive to deenergization of said circuit for delaying return of said arm until the grinding wheel has stopped.

2,641,876
PRECISION GRINDING MACHINE
Jacob Decker and Bernard A. Kearns, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application March 31, 1951, Serial No. 218,568
27 Claims. (Cl. 51—165)



24. A precision grinding machine including a translatable wheel head, a motor for effecting advance and retracting movements of the wheel head at a feed rate, and means for automatically determining the extent of retraction of the wheel head including a wheel head retraction stop member movable in synchronism with the wheel head, a stop member presetting device including an interference abutment, a second abutment carried by the machine and projecting into the path of movement of the interference abutment as it is advanced in synchronism with the wheel head to limit the movement of said interference abutment, and means coupling the interference abutment and stop member whereby the effective positioning of said retraction stop member is automatically adjusted by limitation of the movement of the interference abutment during advancing movement of the wheel head.

2,641,877
BALANCING DEVICE
Swan F. Anderson, Rockford, Ill., assignor of one-half to Ralph F. Anderson, Rockford, Ill.
Application January 17, 1952, Serial No. 266,987
4 Claims. (Cl. 51—169)



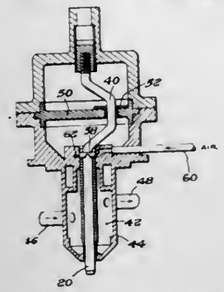
1. An attachment for balancing an abrasive wheel comprising disks of generally circular outline arranged in face to face relation, each having a central opening for the reception of an arbor carrying an abrasive wheel, each of said disks having a portion of the metal thereof removed along one radius of the disk to produce unbalance along a diameter coinciding with said radius, at least one of said disks being dished to provide a peripheral coplanar face on one side of the disk for engagement with the wheel and to space the central portion of the disk from the wheel, graduations along the periphery of each disk extending from directly opposite the aforesaid radius through ninety degrees, the graduations being identified by indicia progressing in opposite directions, and means for supporting the disks for rotary adjustment with respect to each other about the axis of the central opening.

2,641,878
ABRADING UNIT
John M. Radabaugh, Mount Vernon, Ohio
Application July 27, 1951, Serial No. 238,882
4 Claims. (Cl. 51—197)



1. In an abrading unit, the combination of a rotary disk having front and rear faces and a peripheral edge, a circular abrading sheet positioned on the front face of said disk, an annular clamping member disposed at the peripheral edge of the disk and movable forwardly and rearwardly relative thereto for clamping a marginal edge portion of said sheet against the front face of the disk said clamping member projecting beyond the rear face of said disk and being provided with an annular groove open at the inner side thereof, and means on the rear face of the disk and engaging said clamping member for moving the same forwardly and rearwardly, said means comprising a screw-threaded shaft member extending axially from the rear face of said disk, a spider movable longitudinally on said shaft member, a set of fingers having inner end portions thereof pivoted to said spider, a fulcrum ring on said disk and engageable with intermediate portions of said fingers, outer ends of the fingers being disposed in said groove, and an actuating nut provided on said shaft member and engaging said spider.

2,641,879
MOUNTING METHOD
Philip W. Dairymple, Wellesley Farms, Mass., assignor to The International Glass Company, Inc., New York, N. Y., a corporation of New York
Application July 11, 1951, Serial No. 236,226
11 Claims. (Cl. 51—229)



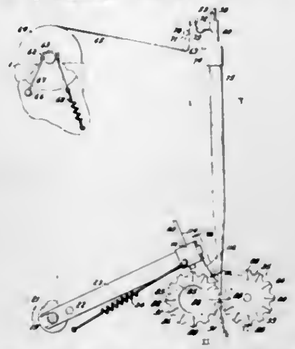
10. A work-piece support having a housing defining a chamber in heat exchange relation with a portion of said support, another portion of said support projecting beyond said housing to provide a work-receiving surface, inlet and outlet connections communicating with said chamber for circulating a refrigerating fluid in a closed system through said chamber, means for applying a liquid to the work-receiving surface of said support and a high-frequency coil adapted to receive within its coil said work-receiving surface of said support for applying heat to said surface, whereby liquid applied to said surface may be frozen by said circulating refrigerating fluid and may be reliquefied through application of heat from said high-frequency coil.

2,641,880
FOLDING MECHANISM
Kenneth Stone, Longmeadow, Mass., assignor to Neostyle, Incorporated, Chicago, Ill., a corporation of Nevada
Application July 10, 1950, Serial No. 172,844
14 Claims. (Cl. 53—20)



1. Means for folding continuously moving vertically disposed sheet material comprising a first pair of horizontally disposed overlapping disks for imparting a 90° fold in which the end portion of said sheet material is disposed substantially 90° to an adjacent base portion, a vertically disposed disk spaced from said first pair of disks for engaging said end portion at a point adjacent the line of said fold to impart a second 90° fold to said end portion whereby said end portion is folded against said base portion to form a tab, a vertically disposed thin strip positioned to lie adjacent the inner surface of said base portion at a point opposite said vertically disposed disk to provide an anvil over which said second 90° fold may be made, and means to rotate said disks at peripheral speeds substantially equal to the speed of movement of said sheet material whereby said end portion will be independently advanced during said folding operations.

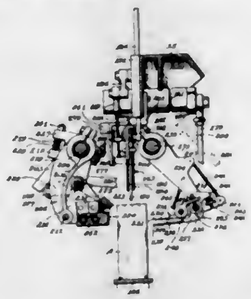
2,641,881
PACKAGING EQUIPMENT
Alfonso M. Donofrio, Toledo, Ohio, assignor, by mesne assignments, to McKay-Davis Chemical Corporation, Toledo, Ohio, a corporation of Ohio
Application December 4, 1946, Serial No. 713,861
3 Claims. (Cl. 53—86)



1. A machine for producing continuous strip packages comprising, in combination, a pair of coacting, heated, sealing rollers, each of said rollers having at least one peripherally extending series of spaced pockets and peripheral crimping areas between adjacent edges of said pockets,

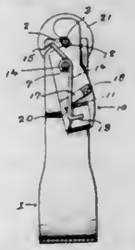
a power source for rotating said rollers with their peripheries in engagement and the pockets in registry, means for feeding a continuous supply of heat-sealable sheet packaging material in opposed spaced layers into the converging space between said rollers, a vertically extending commodity delivery tube for each of said series of pockets, said tube having an open upper end and a flattened open lower end, the lower end of said tube extending between the opposed layers of said packaging material in the converging space between said rollers and in line with the associated series of pockets, means for releasing units of commodity into the open upper end of said delivery tube at spaced intervals of time in synchronism with the rotation of said rollers whereby each unit of commodity is delivered by said tube into the space between such layers of packaging material in registry with a pair of pockets, intermittently operated means exteriorly of said packaging material for crowding each unit of commodity downwardly snugly between such layers of packaging material and away from the edges of the pockets, and power transmission means between said power source, said commodity releasing means and said intermittent means for synchronous driving thereof.

2,641,882
BAG PACKAGING MACHINE
Charles F. Richard, Williamsville, N. Y., assignor to Niagara Packaging Machinery Corporation, a corporation of New York
Application December 2, 1949, Serial No. 130,620
15 Claims. (Cl. 53—144)



1. In a bag closing machine, a bag supporting rail, a guide element parallel with said rail, pusher mechanism reciprocal on said guide element and having at least three pusher arms pivotally connected thereto in spaced-apart relation, a tie bar pivotally connecting the forward and intermediate pusher arms together and extending rearwardly from said intermediate pusher arm to the rearmost pusher arm, said rearmost pusher arm being normally in contact with the rear end of said tie bar, a retractile spring connected to said rearmost pusher arm and to said tie bar a distance forward of the rear end of the latter, and means to cause said pusher arms to move in unison, said means actuating said pusher arms to swing the same into bag-engaging position while said pusher mechanism travels in one direction and to swing said pusher arms out of bag engaging position while said pusher mechanism swings in its opposite direction whereby the bags are advanced intermittently in a forward direction under ratchet action of said pusher mechanism, and means to close said bags as they reach a predetermined station along said supporting rail.

2,641,883
SAFETY STIRRUP
Thomas C. Evans, Russell, Kans.
Application December 26, 1950, Serial No. 202,585
2 Claims. (Cl. 54—49)

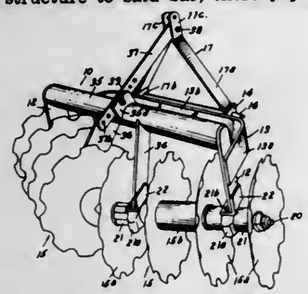


1. In combination, a stirrup having side arms provided with first slots at the upper edges thereof and second slots in said side arms below and at an angle to said first slots, a bar connecting the side arms together and located below and in vertical alignment with said first slots, a collar circumposed on said bar with its ends spaced from the inner faces of said side arms a rod seated in said first slots, a sleeve on said rod having its ends spaced from the inner faces of said side arms, and a U-shaped yoke rotatable within the arms and journaled upon said bar, said yoke including side arms provided with slots for receiving said rod, said yoke including an arched connecting member, and resilient means for preventing accidental rotation of said yoke, said resilient means embodying a pair of springs circumposed on said bar between the opposite ends of the collar and the inner faces of the side arms and said springs having their upper ends engaging in the second slots in the side arms of the said stirrup and their lower ends engaging the connecting member of the yoke, there being a slot in one of the side members of said yoke, and a flat spring secured to said yoke and having a transverse end for projecting through said slot.

2,641,884
BUSH AND BOG HARROW
Frederick D. Sawyer, Wayne, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application December 28, 1950, Serial No. 203,185
2 Claims. (Cl. 55—30)

1. For use with a tractor having a pair of power-lifted, trailing hitch links and a top link, a disc harrow comprising a transverse bar, a pair of first plates respectively secured to the ends of said bar in depending relation, a pair of second plates secured to the medial portions of said bar in depending relation, a pair of disc gangs respectively journaled between said first and second plates, whereby said bar overlies said disc gangs, a horizontally disposed substantially U-shaped bracket having its arms secured to said first plates, an A-frame, means on said U-shaped bracket for pivotally mounting said A-frame thereto in transversely disposed, upstanding relationship, said A-frame being adapted for connection at its bottom portion to the tractor hitch links and at its upper portion to the tractor top link, and ad-

justable length brace means connecting said A-frame structure to said bar, thereby permitting



variation of the vertical tilt of said disc gangs with respect to the ground.

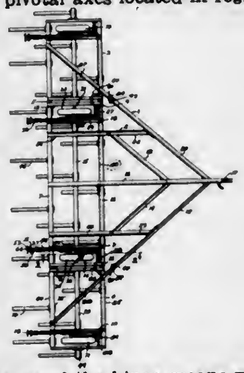
2,641,885
TRANSPORT DEVICE FOR DISK HARROWS
Ralph J. Ireland, Mankato, Minn.
Application July 28, 1949, Serial No. 107,199
3 Claims. (Cl. 55—73)



1. A transport for disk harrows comprising a supporting arm, a wheel journalled to one end of said arm, a harrow axle retaining element intermediate the ends of said arm, an elongated clamping element having a head on its lower end, means on the free end of said supporting arm for detachably receiving said head, and an adjustable traveller on said clamping element, said traveller having a downwardly-opening hook element adapted to receive therein a portion of the harrow frame upwardly of said axle, said arm comprising a pair of laterally-spaced supporting bars, said retaining element including a hook pivotally secured at one end intermediate said bars and a nut-equipped clamping screw carried by the free end of said hook, said hook at its free end being provided with an enlarged head which overlies the upper surface of said bars, and said screw being provided with an elongated head which in one position is adapted to underlie said bars and in another position is adapted to pass freely between said bars.

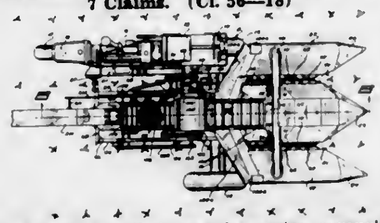
2,641,886
WINGED WHEELED HARROW
William T. Graham, Amarillo, Tex.
Application October 18, 1947, Serial No. 780,623
4 Claims. (Cl. 55—93)

3. A plow including a central frame section, section, wheels carrying ends of the central section, end frame sections registering with the ends of the central section, hinge means connecting said end sections to the ends of the central section, a wheel supporting the outer ends of each end section, a main tongue fixed to and extending longitudinally across the midpoint of the central section and projecting forwardly therefrom to provide a draft connection for a tractor, draft bars fixed to and extending diagonally across the end sections and spaced from said hinge means, said draft bars having portions extending forwardly from the end sections and connected with the forward end of the main tongue, and hinge joints in said extending portions of the draft bars having pivotal axes located in registry with



the pivotal axes of the hinge means which connect the end sections with the central section.

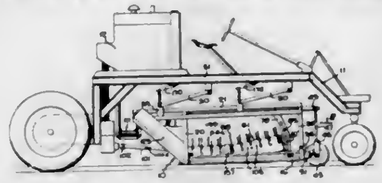
2,641,887
ROW CROP IMPLEMENT-TRACTOR COMBINATION
Alfred Korsmo, Hopkins, and Martin Ronning, St. Louis Park, Minn., assignors to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota
Application April 8, 1949, Serial No. 86,175
7 Claims. (Cl. 56—18)



1. A self-propelled corn harvester comprising a frame mounted on a forwardly disposed transversely spaced pair of traction wheels and supported at its rear on a steering wheel substantially aligned with one of the traction wheels, a corn picking unit adjustably supported on the frame and projecting forwardly therefrom for picking corn from crop rows straddled by the traction wheels, a longitudinally extending husking unit carried by the frame, rearwardly of the picking unit, a conveyor operatively connected to said picking unit and to said frame for conveying corn to the husking unit, a power plant mounted on the frame alongside the husking unit at the side of the frame supported by the steering wheel, and power drive connections from the power plant to the traction wheels, picking and husking units, and conveyor.

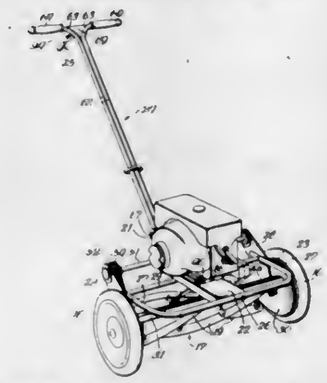
2,641,888
BEAN HARVESTER
Tobias Grether, Camarillo, Calif., assignor of one-fourth to Ventura Farms Frozen Foods, Incorporated, Oxnard, Calif., a corporation of California
Application November 14, 1949, Serial No. 127,097
16 Claims. (Cl. 56—19)

1. A bean picker comprising a frame, a pair of ground-engaging members on the frame and arranged to straddle a row of bean stalks and be moved therealong to define a limited ground area therebetween on which pods being picked may fall, means on the frame located above the ground-engaging members and between the ends of the ground-engaging members for stripping pods from the stalks whereby pods falling toward the ground fall on the ground-engaging



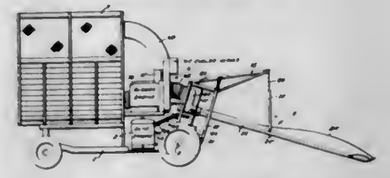
members and the ground area between the ground-engaging members, means located on the members and rearwardly of the last-named means for sweeping the ground area between the ground-engaging members to thereby pick up pods which have fallen on the area, and means on the frame for collecting the pods deposited there by said first and second means.

2,641,889
CONTROL MEANS FOR POWER LAWN MOWERS
Harold T. Bright, Elmhurst, Ill., assignor to King Pneumatic Tool Company, Chicago, Ill., a corporation of Illinois
Application August 14, 1948, Serial No. 44,352
7 Claims. (Cl. 56—26)



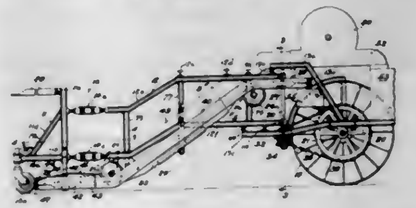
1. Power transmission control means for a power lawn mower having traction wheels, a cutting reel, a motor, and releasable driving connections between the motor and the wheels and cutting reel, said control means comprising in combination an elongated handle structure for guiding the mower, a slidable support for the motor of the lawn mower, resilient means urging said support in one direction for positioning said motor in driving relation with the wheels and cutting reel, a flexible member connected at one end thereof to said support for sliding the latter in the opposite direction whereby to move said motor out of driving relation with the wheels and cutting reel, a control lever pivotally affixed at one end thereof to said handle structure and having a grasping portion for manually operating said lever, said flexible member having its opposite end secured to said lever whereby movement of said motor into and out of driving relation may be controlled by pivotal movement of said lever between driving and non-driving positions, and retaining means on said lever cooperating with said handle structure for releasably holding said lever in non-driving position.

2,641,890
COTTON STRIPPER
Robert W. Baird, Inverness, Miss.
Application May 8, 1948, Serial No. 25,971
3 Claims. (Cl. 56—33)



1. Cotton stripper comprising, a supporting frame, a pair of inclined stripper track beams, a pivot shaft supporting one end of each stripper track beam and carried by said frame, each pivot shaft being perpendicular to the plane of the beams to permit lateral swinging movement of said beams, a rigid bail bridging said beams and pivotally connected to each of said beams at a point remote from said pivot shaft, and flexible connecting means between said rigid bail and said frame to support the free ends of said beams from said frame.

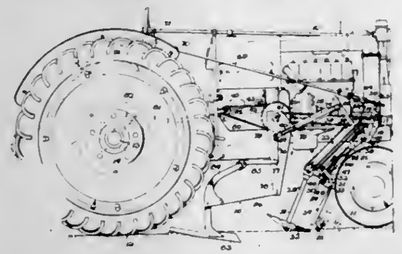
2,641,891
COTTON HARVESTING MACHINE
Leonard E. Spears and Cecil J. Spears, Enfield, N. C.
Application January 11, 1949, Serial No. 70,236
5 Claims. (Cl. 56—35)



1. A cotton harvester and the like comprising a land vehicle, a pair of endless chains carried by said vehicle, said pair of chains having elongated flights in a common plane and having a forward lower portion adjacent the ground and a rearward elevated portion, the opposed flight of one chain being laterally spaced from and substantially parallel to a bight of the other chain, said flights extending rearwardly from said forward portion for a distance in a substantially horizontal plane and from said forward portion upwardly and rearwardly, a plurality of elongated stripper fingers longitudinally spaced on said chains and extending outwardly therefrom, the fingers along said flights extending towards each other and terminating short of each other to provide a substantial gap between the tips of opposed fingers to permit the stalks of cotton

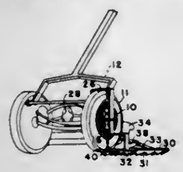
plants to be received in said gap, means operatively connected to said chains for driving said chains to move said chain flights rearwardly as the vehicle advances, and support means underlying said fingers along a major portion of said flights.

2,641,892
BEET HARVESTER
Roy Hojlo, Worland, Wyo.
Application December 21, 1950, Serial No. 202,042
3 Claims. (Cl. 56—121.46)



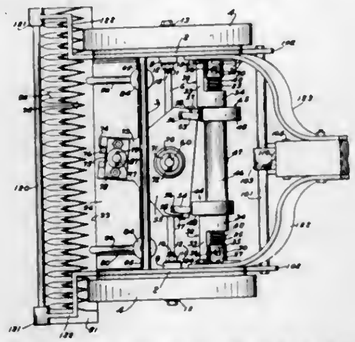
1. In a topper for beets or the like having in combination a support, a link mounted on the support for swinging movement in a vertical plane, a cutting element carried by the link for movement therewith and a guage shoe carried by the link in advance of the cutting element for movement therewith to guage the position of the cutting element, said combination also having a mechanical linkage system for holding the link in an elevated position, said linkage system including an arm having telescopable sections, adjustable means for limiting the extension of said sections relative to each other, the improvement comprising a dash pot having its operative members connected to said sections, respectively, to restrain the retraction of said sections relative to each other under the influence of forces acting upward against the guage shoe.

2,641,893
CLIPPER ATTACHMENT FOR LAWN MOWERS
Alex Drohomer, Santa Ana, Calif.
Application August 18, 1951, Serial No. 242,472
5 Claims. (Cl. 56—251)



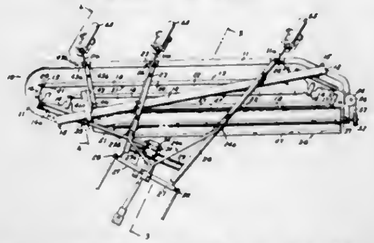
1. A clipper attachment for lawn mowers comprising: cooperating clipper blades, one of which is reciprocable relatively to the other; a gear on one of the traction wheels of said lawn mower; a yoke; frame means supporting said blades and engaging one end of said yoke for holding said yoke adjacent to said gear; an idler pinion supported by said yoke and meshing with said gear; a second pinion and a shaft therefor supported by said yoke, said pinion meshing with said gear; a pitman on said shaft; and a connecting rod connecting said pitman and said reciprocable blade.

2,641,894
RECIPROCATING BLADE LAWN MOWER
John F. McShane and Walter Logan, Greenwood, R. I., assignors to L & M Engineering Corp., a corporation of Rhode Island
Application March 1, 1949, Serial No. 79,086
8 Claims. (Cl. 56—263)



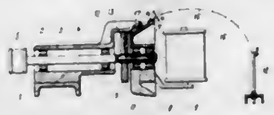
1. In a mowing machine comprising a frame supported by traction-wheels journaled thereon and embodying relatively-reciprocable cutter-bars mounted on said frame and provided with cooperating sharpened teeth, the combination of a rocker-element pivotally mounted on said frame for relatively reciprocating said bars, bearings on said frame, a cam-shaft journaled in said bearings on the frame, oppositely-arranged cams fast on said shaft for oscillating the rocker-element in a horizontal plane, gears rotatable on the cam-shaft and connected to be driven from the traction-wheels, and clutches on the cam-shaft for connecting the gears to rotate the cam-shaft in one direction only while permitting lost motion between the gears and cam-shaft to provide for differential motion of the traction-wheels.

2,641,895
CROP STRIPPER FOR ROTARY RAKES
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application December 31, 1949, Serial No. 136,305
5 Claims. (Cl. 56—377)



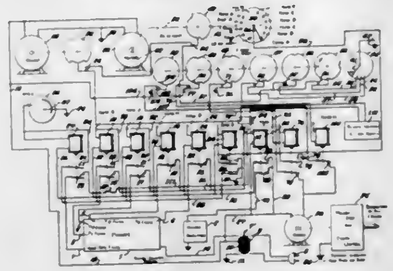
1. In combination with a side delivery rake having a frame and a raking cylinder mounted in the frame for rotation about a horizontal axis, first drive means operatively connected to said cylinder for rotating said cylinder, an elongated stripping element mounted on said frame adjacent said raking cylinder for rotation about an axis laterally aligned with said axis of said cylinder, the rotational axis of said element being inclined upwardly relative to the axis of the raking cylinder in a direction toward the discharge end of the raking cylinder, second drive means driven by said first drive means and operatively connected to said element for rotating said element, and longitudinally extending radially projecting vanes on said element adapted to engage any portions of the crop clinging to said raking cylinder to strip such crop portions therefrom.

2,641,896
DOUBLE TWIST SPINDLE
Karl Landolt, Zurich, Switzerland
Application August 11, 1950, Serial No. 178,853
In Switzerland October 11, 1949
16 Claims. (Cl. 57—58.83)



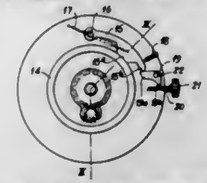
1. In a double twist spindle, a freely journalled stationary unit having a periphery formed to provide a thread guiding surface, a fixed member disposed externally of the stationary unit and spaced a predetermined distance from at least a portion of the peripheral surface of said stationary unit to provide a gap for the passage of the twist balloon formed by the thread, a portion of the stationary unit projecting outwardly a sufficient distance to engage the fixed member upon limited rotational movement of the stationary unit, whereby to prevent complete rotation of said unit.

2,641,897
CHIME CLOCK CONTROL MECHANISM
Louis A. Maas, Glendale, Calif., assignor to Maas-Rowe Electromusic Corporation, Los Angeles, Calif., a corporation of California
Application December 8, 1947, Serial No. 790,410
21 Claims. (Cl. 58—38)



1. In a chime control system: a series of circuits, each of which includes an electrically operated circuit controller, said circuit controller being operable in proper sequence to energize said circuits in said sequence to actuate chimes for producing a melody; a master circuit controller controlling all of said circuits; a timing device for periodically energizing said master circuit controller; and means operated by the timing device for completing the energizing circuits of said series of circuit controllers in a desired order.

2,641,898
UNIVERSAL TIMEKEEPER
Fritz Galley, Le Locle, Switzerland, assignor to Fabrique d'Horlogerie Chs Tissot & Fils S. A., Le Locle, Switzerland, a Swiss firm
Application May 9, 1951, Serial No. 225,395
In Switzerland June 22, 1950
3 Claims. (Cl. 58—43)



1. In a time keeper, the combination of a stationary dial, a rotary dial coaxial therewith, hour and minute hands cooperating with the stationary dial, a scale of time belts and a 24-hour scale provided respectively on the peripheries of the rotary dial and of the stationary dial, a clockwork controlling the hands, a transmission including friction means operatively connecting the clockwork with the movable dial to constrain the latter to move normally in synchronism with the hour hand, a winding shaft controlling the angular setting of the hands and adapted to be shifted radially of the dial between an operative and an inoperative position, a brake pivotally mounted in the clockwork and adapted to be shifted between an operative position for which it holds the movable dial against movement and an inoperative position at a distance from said dial, a pusher member adapted to be shifted radially of the stationary dial for urging the brake into its braking position and an auxiliary member controlled by the winding shaft and adapted when the latter is in its operative position, to release the brake and allow its shifting through the pusher member.

2,641,899
CHRONOGRAPH SETTING HAMMER SYSTEM
Robert H. Jeanneret, Saint-Imier, Switzerland, assignor to R. Jeanneret & Co., Excelsior Park, Saint-Imier, Bern, Switzerland, a firm
Application July 24, 1951, Serial No. 238,290
In Switzerland July 31, 1950
3 Claims. (Cl. 58—76)



1. In a chronograph comprising two return to zero hearts, two hammers cooperating respectively with said hearts, and an indicator member rigid with each heart; means pivotally securing one of the hammers to the other and a spring, situated between both hammers, urging the first hammer into a predetermined position with reference to the other hammer for holding the system of hammers in a predetermined configuration.

2,641,900

TIMEPIECE WITH CHRONOGRAPH

Robert H. Jeanneret, Saint-Imier, Switzerland, assignor to R. Jeanneret & Co., Excelsior Park, Saint-Imier, Switzerland, a firm

Application November 29, 1951, Serial No. 258,796
In Switzerland January 10, 1951
3 Claims. (Cl. 58—76)



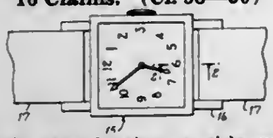
1. In a time piece with chronograph including a chronograph wheel, the combination of at least one lever operatively connected with said wheel, a clutch associated with said wheel, a yielding member controlled by said lever and adapted to move in a direction that is substantially radial with reference to the chronograph wheel and to engage frictionally the latter to brake it when the clutch is inoperative, an eccentric to which said lever is pivotally secured and the angular position of which defines the relative position of the elastic member with reference to the chronograph wheel.

2,641,901

WATCHCASE

Arthur J. Geoffrion, Manhasset, N. Y., assignor to Lapwell Watch Case Corp., Greenvale, N. Y., a corporation of New York

Application September 4, 1952, Serial No. 307,872
16 Claims. (Cl. 58—90)



5. A watch case having a side wall member and a back member, a succession of projections projecting inwardly relative to the inner surface of said side wall member adjacent the bottom thereof, a succession of recesses in the margin of said back member which substantially register with said projections in overlapping relation thereto and which clear said projections so that said back member can be freely inserted within said side wall member, elongated locking member means disposed along said margin of said backing member and between said margin of said backing member and said projections for preventing withdrawal of said back member from said side wall member, and means for maintaining said elongated locking member means in position as so disposed.

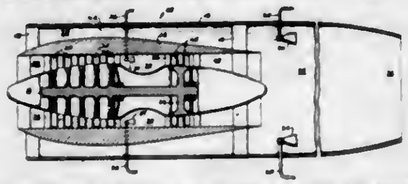
2,641,902

COMBINATION RAM JET AND TURBOJET

John A. Kerr, Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application September 13, 1947, Serial No. 773,785
2 Claims. (Cl. 60—35.6)

1. A jet propulsion power plant comprising a ram-jet engine and a turbo-jet engine; said ram-jet engine comprising an open-ended duct-like member having a forwardly directed air entrance opening at one end and a rearwardly directed exhaust nozzle at its other end; said ram jet engine also including means for introducing fuel into said duct-like member for combustion therein in a zone intermediate the ends of said duct-like member, the ram jet combustion gases discharging rearwardly through said nozzle to provide the power plant with substantial forward propulsive thrust; said turbo-jet engine being disposed at least substantially completely within said duct-



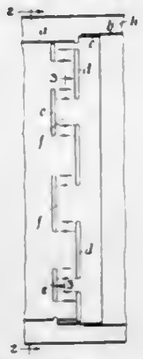
like member and having a forwardly directed air entrance opening at one end and a rearwardly-directed axially-extending exhaust passage at its other end, the downstream end of said exhaust passage opening co-axially into the surrounding duct-like member upstream of said combustion zone so that the turbo-jet exhaust gases discharge into said duct-like member and thence through the exhaust nozzle of said duct-like member to provide the power plant with substantial forward propulsive thrust, said duct-like member being clear of all "rotatable blades" exteriorly of said turbo-jet engine.

2,641,903

LIQUID FUEL COMBUSTION CHAMBER

Alfred Huyton, Burnley, England, assignor to Joseph Lucas Limited, Birmingham, England

Application January 30, 1950, Serial No. 141,186
In Great Britain February 2, 1949
1 Claim. (Cl. 60—39.65)



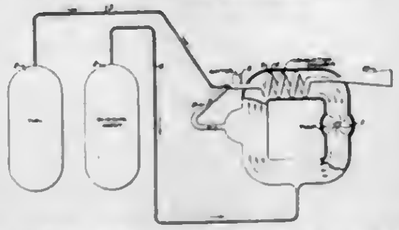
A liquid fuel combustion chamber comprising at least two substantially cylindrical sheet metal sections, of different diameters, an expanded end integral with the smaller of the two sections having a continuous cylindrical periphery fitted closely within and secured to one end of the other section, a circumferential row of narrow slots immediately adjacent to the expanded end, a second circumferential row of narrow slots spaced from the first mentioned row, the slots in the said second row being situated in staggered relationship to the first row, and the metal of the section intermediate the two rows of slots being pressed outwardly at intervals to constitute an annular arrangement of closely adjacent air channels leading from the exterior to the interior of the slotted section.

2,641,904

APPARATUS FOR COOLING COMBUSTION CHAMBERS OF MOVABLE POWER PLANTS WITH AN OXIDIZING AGENT

Maurice Bouffart, Brussels, Belgium

Application January 28, 1946, Serial No. 643,926
In Great Britain December 14, 1945
3 Claims. (Cl. 60—39.66)



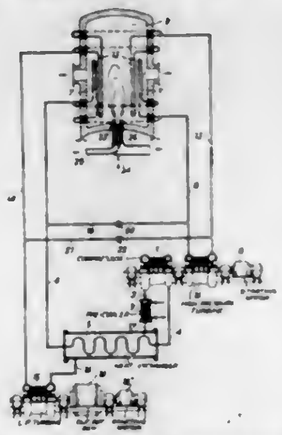
1. A power plant comprising a combustion chamber, a cooling jacket surrounding said combustion chamber and having an inlet and an outlet for a cooling medium, conduit means connecting the inlet and outlet of said jacket and forming a closed flow path with said jacket, a receptacle containing a liquefied gaseous oxidizing agent, a receptacle containing a fuel under high pressure, a pipe leading from the oxidizing agent receptacle to said closed flow path, a pipe leading from the fuel receptacle to said combustion chamber, a pipe leading gaseous oxidizing agent which has changed from the liquid to gaseous phase in the closed flow path by absorption of heat, from the closed flow path to the combustion chamber, and a rotary pump within said closed flow path for circulating the oxidizing agent through said closed flow path and in heat exchange relation about said combustion chamber at a rate of flow much higher than the rate of flow of the oxidizing agent entering and leaving said closed flow path.

2,641,905

CLOSED CIRCUIT POWER PLANT HAVING BYPASS MEANS TO REGULATE HEAT INPUT TO EACH TURBINE

Curt Keller, Kusnacht, Switzerland, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland

Application June 8, 1949, Serial No. 97,888
In Switzerland June 21, 1948
2 Claims. (Cl. 60—59)



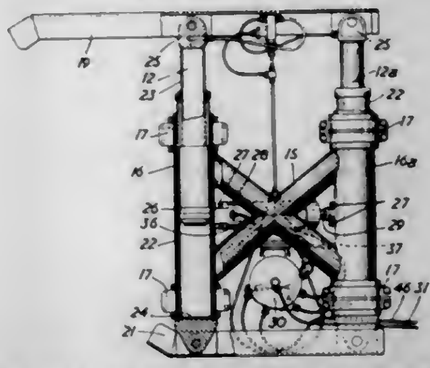
1. A thermal power plant comprising a closed circuit in which a gaseous working medium flows, said circuit including two heating systems for the working medium; a combustion source of heat external to said systems, and common to the two, by means of which heat is supplied to working medium flowing through each of the two heating systems; a high pressure turbine through which the working medium heated in the first of said heating systems is caused to expand, the medium so-expanded flowing into the second of said heating systems; a low pressure turbine devoid of mechanical connection with the high pressure turbine and through which the working medium heated in said second heating system is caused to expand; a cooler in which heat is withdrawn from the so-expanded working medium; a compressor driven by one of said turbines and connected to receive working medium exhausted by the low pressure turbine and cooled in said cooler and deliver it at increased pressure to the first of said heating systems; a consumer of useful energy driven by the other one of said turbines; a by-pass connecting the admission end of the first heating system with the admission to the high pressure turbine; a flow-regulating valve interposed in said by-pass; a second by-pass connecting the admission end of said second heating system with the admission end of the low pressure turbine; and a flow-regulating valve inserted in said second by-pass.

2,641,906

MINE ROOF SUPPORT

Richard N. Knights, Hucclecote, and Colin M. Frye, Longlevens, England, assignors to Dowty Equipment Limited, Cheltenham, England

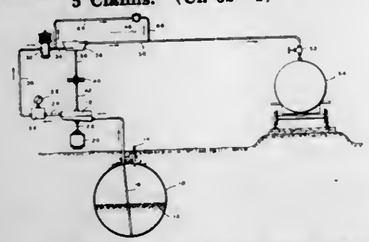
Application August 31, 1949, Serial No. 113,454
In Great Britain September 1, 1948
12 Claims. (Cl. 61—85)



1. A mine roof support comprising at least four constrictable and expansible upright hydraulic props disposed in two sets at right and left, respectively, and one prop ahead and one prop behind in each set, said props being of a length, when extended, to rest upon the floor and to support the roof, a rigid frame connecting and supporting the forward and the rear props, respectively, in the set at the right, and a like rigid frame connecting and supporting the forward and the rear props in the set at the left, parallel linkage means connecting the forward ends and the rear ends of the two frames, to constitute with the frames a deformable parallelogram, extensible and contractable power means extending diagonally of such parallelogram between and connected to the forward end of one frame and the rear end of the other frame, and operable upon contraction to shorten the distance between its two points of connection, and upon extension

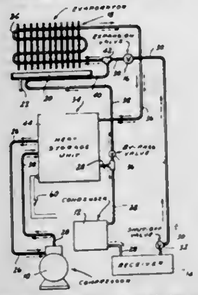
to length such distance, hydraulic control means shiftable between two limit portions, and operable when in one such position to extend the two props at one side to hold fast these props and their frame between the floor and the roof, and operable when in its other limit position to constrict the other two props at the other side to loosen them and their frame, and vice versa, and further control means to alternately extend and retract said power means, whereby the loosened props and their frame may be advanced relative to the held-fast props by appropriate contraction or extension of such diagonally extending power means in coordination with extension and constriction of the respective sets of props.

2,641,907
SELF-AID HIGH-PRESSURE METERING SYSTEM
Carson D. Baucom, Raleigh, N. C.
Application August 31, 1950, Serial No. 182,577
5 Claims. (Cl. 62—1)



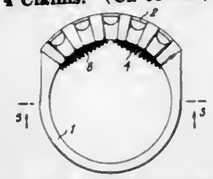
1. The method of dispensing and metering volatile liquid from a storage receptacle to a receiving container comprising pumping liquid from the storage receptacle through a meter at relatively high pressure above the vapor pressure of the liquid at prevailing temperatures, passing the liquid through a pressure regulating valve for maintaining the pressure through the meter, utilizing the liquid at high pressure to operate a fluid motor for minimizing the power requirement to pump the liquid, by-passing any excess of liquid around the fluid motor, and discharging the liquid from the fluid motor and the by-pass into the receiving container.

2,641,908
REFRIGERATOR DEFROSTING MEANS
Louis F. La Porte, Wellston, Mo., assignor to Francis L. La Porte, Burlingame, Calif.
Application September 2, 1950, Serial No. 182,971
10 Claims. (Cl. 62—115)



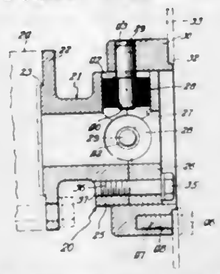
1. In combination with a refrigeration system including a compressor, a condenser, and an evaporator, means for defrosting said evaporator without turning off the compressor, said means including a container at least partially filled with a quantity of liquid, heat-supplying means for maintaining said liquid at a high temperature, a first coil submerged in the liquid and formed in the discharge line of said compressor, a second coil submerged in the liquid and formed in the suction line of said compressor, a flow retarding device of the character described interposed in the suction line within the container between the second coil and the evaporator for vaporizing the refrigerant passing therethrough from said evaporator, a vapor line in communication at one end with the inlet portion of the evaporator coil, and a normally closed valve on the other end of the vapor line and in communication with the compressor discharge line for diverting the normal flow of discharge gases into said vapor line.

2,641,909
FINGER RING WITH SPRING GUARD
Moe Manne, New York, N. Y.
Application February 20, 1951, Serial No. 211,853
4 Claims. (Cl. 63—17)



1. A finger ring having a top provided with a recess in the under side thereof, a coil spring located below said recess and extending across a portion of the opening through the ring and having its opposite ends anchored at the opposite ends of the recess, a support extending across the recess at a substantially central point therein, said spring being extended over and supported by said support to thereby divide said spring into two sections arranged angularly with respect to one another, said sections being capable of being expanded to at least partly enter said recess when a finger is inserted through the opening of said ring.

2,641,910
FLEXIBLE MOUNTING FOR PROPELLER FANS
Earl F. Riopelle and Charles E. Hein, Detroit, Mich., assignors to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application November 5, 1948, Serial No. 58,508
4 Claims. (Cl. 64—27)



1. A drive coupling comprising a generally cylindrical driving member formed of two confronting coaxial sections having cylindrical outer surfaces and adapted for axial separation one from the other; means releasably securing said sections together whereby a continuous outer cylindrical surface is provided on said driving member; means defining opposed recesses in the proximate faces of said sections providing radial pockets in said driving member; a ring detachably mounted on the outer periphery of said driving member and having therein a plurality of radial apertures normally in axial alignment with said radial pockets, said driving member and ring being adapted for relative rotative movement one with respect to the other; a driven member anchored to said ring whereby said driven member is supported on said driving member; and a plurality of torque transmitting unitary assemblies connecting said driving member to said ring, each comprised of a structurally independent radial trunnion pin having its outer region positioned in an aperture in said ring and its inner region extending radially inward into an aligned pocket of said driving member; a resilient annular block seated in the aforesaid driving member pocket; and the section of said driving member nearest said driven member being adapted to be moved as a unit in a direction axially away from the other section thereby to permit ready access to said torque transmitting assemblies.

2,641,911
COASTER
Grace L. Raymond and Horace H. Raymond, Berlin, Conn., assignors to Raymond Engineering Laboratory, Inc., Middletown, Conn., a corporation of Connecticut
Application November 29, 1951, Serial No. 258,870
3 Claims. (Cl. 65—53)



1. A coaster for drinking glasses and the like comprising a tray having an outer peripheral wall of greater circumference than the drinking glass to be seated on the coaster so as to be spaced outwardly therefrom, a rigid, centrally located, vertically extending, continuous wall disposed about a passage of lesser diameter than the bottom of the drinking glass, said inner wall being of lesser height than the peripheral wall and forming a support of small contact area for the bottom of the drinking glass within the periphery thereof, and a pad of absorbent sponge-like material which when wet is compressible by the weight of a drinking glass, said pad being disposed in the tray between said walls and surrounding said passage and having a thickness substantially equal to the height of the inner wall but slightly higher when dry, said pad being high enough to draw off water from the peripheral edge of the bottom of a drinking glass seated on the inner wall and being thin enough to permit the weight of the glass to be supported substantially entirely by the inner wall.

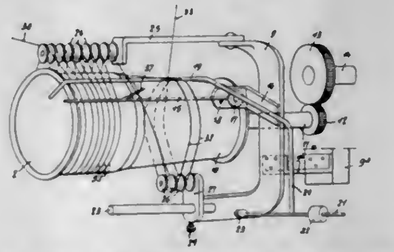
2,641,912
PLATE AND COVER THEREFOR
Carlton Lawler, Dallas, Tex.
Application November 13, 1951, Serial No. 256,027
4 Claims. (Cl. 65—59)

3. In a plate and cover unit having its main application to the transportation of prepared food portions to a remote location for consumption thereat, a pair of semi-circular plates arranged in side-by-side relation and proportioned to serve as receptacles for prepared food portions, each of said plates having a straight, upstanding inner side wall arranged in parallelism with the corresponding wall of the other plate, an arcuate, outer side wall rigidly joined at its ends to the inner wall, and a plurality of upstanding partitions effective to form a plurality of separate compartments in each plate; and a



single, circular cover shaped to overlie both of said plates, said cover having a depending peripheral flange engaging the outer walls of the plates, a depending rib extending diametrically of the cover and engaging said inner walls, and a plurality of depending partitions complementary to and engaging the partitions of the plates, thus to form a marginal seal upon each of the plates and a seal around each compartment of each plate.

2,641,913
YARN FEEDING METHOD AND APPARATUS FOR KNITTING MACHINES
Gustave Charles Auguste Alric, Troyes, France, assignor to "Etablissements Poron," Troyes (Aube), France, a French limited liability company
Application February 12, 1948, Serial No. 7,838
In France April 15, 1947
23 Claims. (Cl. 66—132)



1. A method for feeding yarn to a knitting machine with constant tension comprising the steps of colling said yarn a fixed number of turns around a revolving element having a peripheral speed greater at all points than the linear speed of said yarn; and altering the driving force on said yarn by continuously varying the length of the arc of contact of at least part of said turns with said revolving element in proportion to the actual tension of said yarn colled on said revolving element and by passing said yarn over a fixed rod to provide a variable additional resisting arc.

2,641,914
METHOD OF PRODUCING STOCKINGS FOR VARICOSE VEINS
Albert Emile Joseph Marie Neumager, Montceau-les-Mines, France, assignor to Varinyl, Montceau-les-Mines, France, a French company
Application June 30, 1949, Serial No. 102,314
In France July 19, 1948
6 Claims. (Cl. 66—178)

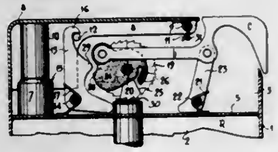
1. A method for producing a stocking for varicose veins consisting in twisting a superpolyamide

thread, allowing same to shrink freely, fixing the twist, untwisting the thread, sizing it, steaming



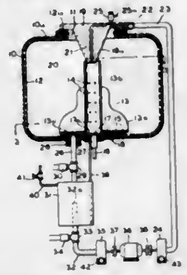
the thread and knitting the stocking with said thread under constant hygrometric conditions.

2,641,915
LIGHTER
Léon Bolle, Geneva, Switzerland, assignor of one-half to La Nationale S. A., Geneva, Switzerland
Application January 25, 1950, Serial No. 140,384
In Switzerland February 4, 1949
1 Claim. (Cl. 67—7.1)



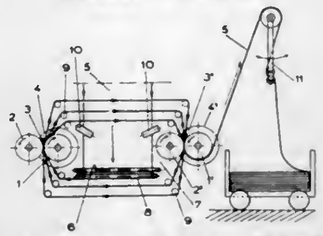
In a lighter having a body enclosing a receptacle comprising two large lateral faces extended by two walls passing beyond said receptacle, a wall on the upper side of said body, said wall closing said receptacle, a burner mounted on said latter wall, and passage means for connecting said receptacle to said burner, said passage means traversing said latter wall, the combination comprising a pivot member mounted on one wall passing beyond said receptacle, an arm supported by said pivot member, a cover supported by said arm, an extinguisher means depending from said cover for fitting over the burner, a spring means for causing the arm to oscillate about the pivot member, said spring means operatively connected to the arm and to the pivot member, a retaining pin mounted on said arm away from said pivot means and nearer said extinguisher means, a second pivot member mounted on said wall passing beyond the receptacle beneath the retaining pin, a latch lever mounted on said second pivot member and engaging said retaining pin, a spring means operatively connected to said latch lever and said second pivot member for holding said latch lever in contact with said retaining pin, a third pivot member mounted on said wall passing beyond the receptacle between and beneath said first two pivot members, a friction wheel freely mounted on said third pivot member, a pyrophoric member mounted on said wall closing said receptacle, said pyrophoric member pressing against said friction wheel, an actuating means provided with a resilient pawl for engaging said friction wheel, said actuating means being mounted on said third pivot member, a fourth pivot member mounted on said wall passing beyond the receptacle, a lever mounted on said fourth pivot member, and a control member having a link member operatively connected to said actuating member and said lever.

2,641,916
WASHING MACHINE WITH VACUUM DRYING
George W. Johnson, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application February 23, 1950, Serial No. 145,748
8 Claims. (Cl. 68—21)



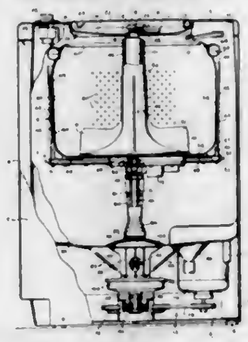
1. In a washing machine, a tub, a flexible liquid- and air-tight lining inside of said tub, means for closing said tub air-tight, laundry washing means within said lining, means for withdrawing liquid and air from the interior of said lining to create at least a partial vacuum within said lining, whereby to squeeze the liquid out of the laundry by the pressure of the atmosphere against the outside of said lining, and means for introducing a limited amount of air into said lining only at a point thereof removed from said air withdrawing means while said air withdrawing means is operating, to cause said air to pass through said laundry to said withdrawing means, said limited amount of air being insufficient to break said partial vacuum.

2,641,917
COMBINATION DYEING AND SQUEEZING DEVICE FOR CLOTH-DYEING MACHINES
Julien Dungler, Basel, Switzerland
Application September 11, 1946, Serial No. 696,174
In France May 20, 1946
5 Claims. (Cl. 68—22)



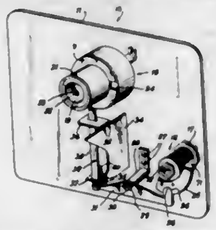
1. In a dyeing and like treatment machine for web material; the combination of two pairs of substantially horizontally extending rollers, with guide means for said material, the rollers of each pair of rollers being in contact with each other along a generatrix of said rollers, one roller of each pair of rollers being provided with end flange means to thereby form between each pair of rollers and said flange means a reservoir adapted to contain a treatment liquid for said material, one pair of rollers being spaced from another pair of rollers, said two pairs of rollers being located substantially in a common horizontal plane, said guide means being adapted to conduct said material to and from said pairs of rollers so that said material follows a spiral course from one pair of rollers to the other pair of rollers and travels in superposed layers through said reservoirs and for final discharge from one of said reservoirs.

2,641,918
WASHING MACHINE WITH ROTATABLE TUB HAVING A CENTRIFUGALLY OPERATED VALVE
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application June 3, 1949, Serial No. 97,012
15 Claims. (Cl. 68—23)



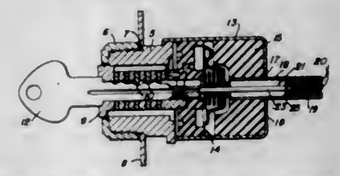
1. In a washing machine, the combination of a rotatable tub having an imperforate sidewall and a bottom for receiving liquid and material to be washed, means for holding said sidewall in spaced relation to said bottom wall to define a circumferential discharge passage disposed adjacent the bottom of said tub, means for effecting a washing operation in said tub and for rotating the same to remove the liquid therefrom, a sediment trap disposed adjacent the lower portion of said tub in communication with said passage and the interior of said tub, and an annular resilient sealing member for sealing said circumferential discharge passage when said tub is stationary and movable by centrifugal force when said tub is rotated above a predetermined speed to uncover said circumferential passage to discharge liquid in said tub through said sediment trap and passage to the exterior of said tub.

2,641,919
INTERLOCK SYSTEM
Benjamin Cooper, New York, N. Y.
Application January 11, 1950, Serial No. 137,976
4 Claims. (Cl. 70—338)



4. In combination, a mechanical interlock comprising a key receiving means, a cylinder lock barrel, a key receiving cylinder member rotatable in said cylinder lock barrel, said cylinder member being rotatable from a first angular position to a second angular position with respect to said cylinder lock barrel, means to prevent rotation of said cylinder member when in the second angular position, a rotatable sleeve on said key receiving means, said sleeve being provided with a notch and rotatable from a first angular position to a second angular position, a latching bar slidable from a first position out of engagement with said notch to a second position in engagement with said notch, said sleeve normally preventing sliding movement of said latching bar from its first to its second position, means interconnecting said latching bar to the means which prevents rotation of the cylinder member to prevent the rotation of said cylinder member from its second to its first angular position when said sleeve is in its first position, said interconnecting means being controlled by movement of the cylinder member from its second to its first angular position to move said latching bar into engagement with said notch when said sleeve is in its second angular position, and means controlled by the rotation of the cylinder member from its first to its second angular position to release said latching bar from said notch.

2,641,920
LOCK WITH KEY EJECTOR
Walter H. Gill and Thomas E. Darrah, Belleville, Ontario, Canada
Application October 25, 1951, Serial No. 253,034
1 Claim. (Cl. 70—388)

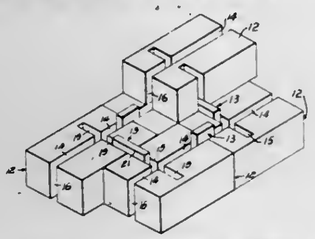


A lock of the character described comprising a fixed cylinder, a barrel operable in the cylinder and having a keyway therein, a switch unit mounted on the cylinder and operatively connected to the barrel, a tubular housing mounted in the switch unit and projecting therefrom, said tubular housing being open at both ends, an ejector comprising a bar slidable in the keyway for engagement with a key, a rod fixed longitudinally on one end of the bar extending into the tubular housing, said rod having a circumferential groove in its free end portion, a washer mounted in the groove and operable in the tubular housing, inturned ears on the outer end of the tubular housing, and a coil spring mounted in said tubular housing and having one end engaged with the ears and its other end engaged with the washer for actuating the rod and the bar for ejecting a key from the keyway.

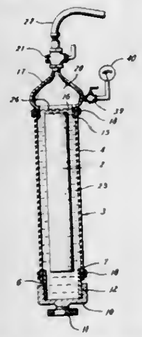
2,641,921
INTERLOCKING BRICKS
Charles J. Lacy, Olivette, Mo.
Application August 26, 1950, Serial No. 181,656
3 Claims. (Cl. 72—38)

1. A two-thickness interlocked wall of building bricks that comprises a plurality of elongated, rectangular bricks in superposed courses, with two parallel, longitudinal rows of bricks forming each course, each brick having longitudinally extending grooves in the top and bottom thereof,

said grooves having parallel faces similarly spaced, and being located at the transverse center of said brick, end grooves of the same width as the longitudinally extending grooves in each end of said brick in alignment with said longitudinally-extending grooves and communicating therewith, transversely-extending grooves in the top and bottom of said brick, said transverse grooves having parallel faces spaced apart a distance similar to the width of the longitudinal grooves, and being spaced from one end of each brick a distance equal to one-half the width of said brick and being joined by a side groove in one side face of said brick, of a width similar to the width of the transverse groove and in alignment therewith, and aligning elements for aligning said bricks both vertically and horizontally, one aligning element spanning a pair of superimposed rows of two adjacent courses, a portion of said element being seated in the longitudinal grooves of the bricks of said two rows and extending into the end grooves of adjacent bricks of one of said two rows, and a second aligning element extending transversely of the wall and having a portion seated in said transverse grooves of the bricks of said pair of rows and in the transverse grooves of the adjacent pair of rows of said two adjacent courses, said second aligning element having another portion extending into the side grooves of adjacent bricks of the parallel rows in one course of said two adjacent courses.

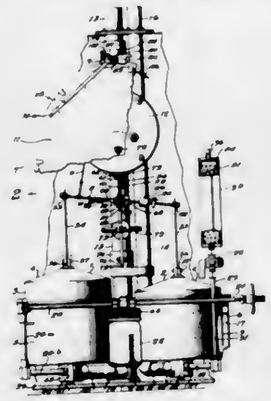


2,641,922
CORE ANALYSIS
Alonzo L. Smith, Houston, Tex.
Original application October 16, 1944, Serial No. 558,948. Divided and this application August 30, 1950, Serial No. 182,289
3 Claims. (Cl. 73—23)



1. A device for indicating the release of gas from a core sample comprising a closed container for the sample, a bonnet of rigid non-flexible material at one end of the container for sealing the container and collecting gas, said container being a tube of flexible material to permit breaking or flushing of the core by bending while the core sample is sealed within the tube to release gas from the pores of the core, and means connected to said container to show any variation in the pressure within the container as an indication of the release of gas.

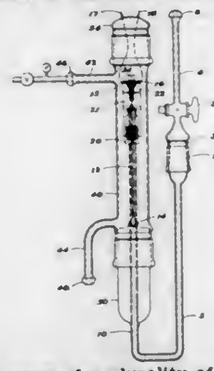
2,641,923
GAS GRAVITOMETER
Sydney William Binckley, Hollywood, Calif.
Application June 18, 1951, Serial No. 232,191
2 Claims. (Cl. 73—30)



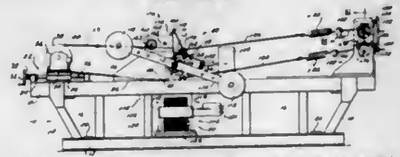
1. A gravitometer, including a tank holding a sealing liquid, a working bell and a balance bell immersed in part in said sealing liquid to provide an enclosed space in each bell, a balance beam supporting said bells, means for directing a flowing gas sample within the enclosed space of the working bell, means for directing dry air into the enclosed space of the balance bell, a pair of elongated columns the tops of which are above the level of the sealing liquid, one of which communicates with the enclosed space within the working bell and the other of which communicates with the enclosed space within the balance bell, and compensating means comprising means for simultaneously varying the length of each column.

2,641,924
DETERMINATION OF EFFECTIVE POROSITY OF CORE SAMPLES
Paul P. Reichertz, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1947, Serial No. 773,409
4 Claims. (Cl. 73—38)

1. The method of evaluating the porosity of an earth core sample which comprises placing the core sample in a closed chamber, evacuating the chamber, placing a body of liquid mercury in the chamber in such a manner that the mercury envelops the core sample, subjecting the body of mercury to a stepwise series of incremental increases of pressure, after each of said increments of pressure increase measuring the decrease in volume of the body of liquid mercury in contact with the core effected by the entrance of mercury into the pores of the core whereby the relative amount of pores of a plurality of size ranges in the core sample may be determined.



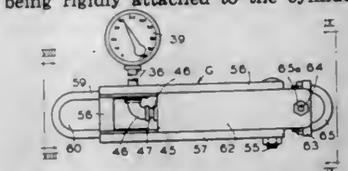
2,641,925
SERVO LOADING STAND
Samuel P. Altman, Dayton, Ohio
Application October 3, 1950, Serial No. 188,256
5 Claims. (Cl. 73—116)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for testing servomotors which comprise in combination a frame, a servomotor mounting means adjustably mounted on the frame, a loading shaft mounted on said frame with is axis arranged so as to be parallel with the shaft of a servomotor on said mounting means, adjusting means associated with the servomotor mounting means for adjusting the distance between the servomotor shaft and the loading shaft, pulley and cable means connecting the shafts, means mounted on the loading shaft for applying a predetermined inertia load thereto, means operatively associated with the loading shaft for applying a predetermined viscous load thereto, further means connected to the loading shaft for applying a predetermined spring load thereto, means associated with the viscous load means for varying the viscous load while test is in progress and means cooperatively engaging the spring load means for varying the spring load means while the test is in progress.

2,641,926
DRAWBAR PULL GAUGE DEVICE
Henry L. Eisenbart, Fowler, Kans.
Application January 23, 1950, Serial No. 140,111
1 Claim. (Cl. 73—141)

In a draw bar pull gauge of the kind described; a cylinder and a piston element slidably mounted therein to form a hydraulic pressure chamber within the cylinder and between the head thereof and the piston, said piston comprising a tube having one end closed and carrying a piston sealing element for forming a liquid tight joint between the cylinder and piston, one end of the tubular piston element projecting from the cylinder element, a pair of leg elements, said leg elements being slidably positioned one along each opposite sides of the cylinder and each leg being transversely curved and extending one quarter way around the cylinder, and means connectedly associating one end of each leg with the projecting end of the tubular piston element, a draw plate, said draw plate being spaced away from the head of the cylinder and having the other end of each of said legs attached thereto, and means carried by said draw plate for attachment to the draw bar of a tractor, a second pair of leg elements, said second pair of leg elements being transversely curved and fitted against opposite sides of the cylinder element and one between each of the first said pair of leg elements and being rigidly attached to the cylinder element to form guides against which the first said legs may longitudinally slide, a second draw plate, said second draw plate being spaced beyond the projecting end of the tubular piston element and one end of each of the second said pair of legs being connected to the second said plate, and means carried by the second said draw plate for attachment to a load to be pulled by the tractor, a flexible hose element and a hydraulic pressure gauge, one end of the flexible hose element being connected with the said cylinder and opening into the said hydraulic chamber formed within the cylinder, the other end of the flexible hose being connected with the hydraulic pressure gauge and opening thereinto to admit hydraulic pressure thereinto that is developed in the hydraulic pressure chamber by the pull of the tractor against the load to be pulled by the tractor.



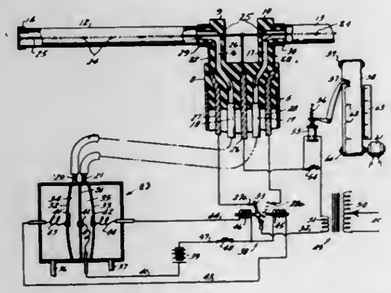
2,641,927
WELL PIPE VIBRATING APPARATUS
Donovan B. Grable and William A. Vock, Long Beach, Calif.
Application February 1, 1951, Serial No. 208,910
4 Claims. (Cl. 73—151)



1. Apparatus adapted to be lowered on an electrically conductive line within a well pipe, com-

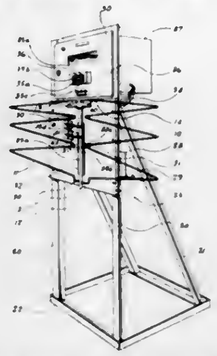
prising a tubular body, a motor in the body, a vibrator element driven by said motor and operable to engage and produce successive impacts against said pipe, and a vibration responsive device hermetically sealed in said apparatus and electrically connected to the line, said device being operable to receive and transmit through said line vibrational energy created in accordance with said impacts.

2,641,928
ICING CONDITION INDICATING MEANS
Wallace E. Howell, Lexington, Mass., assignor to the United States of America as represented by the Secretary of the Air Force
Application October 18, 1949, Serial No. 121,992
7 Claims. (Cl. 73—170)



3. In a meteorological icing condition indicating instrument, a support, icing condition indicating means comprising a pair of finely apertured tubes carried by the support for simultaneous exposure to atmospheric icing conditions, electrical resistance heating means intermediate the ends of each tube including a pair of energizing circuits and a common switch means for alternately closing said energizing circuits to alternately energize the resistance heating means for each tube to heat the tubes alternately during atmospheric icing conditions to alternately remove the ice formed in the apertures of each tube, an air pressure operated device, including a diaphragm therein forming opposing pressure chambers at opposite sides of the diaphragm, and a pair of air delivery conduits, one conduit being connected between one chamber and the interior of one tube for receiving air passing through the tube apertures and delivering the same to the connected pressure chamber and the other conduit being connected to the other chamber and the interior of the other tube, electrical contact means operable by the diaphragm at opposite sides thereof incident to movement thereof in opposite directions, a pair of control circuits selectively controlled by said contact, means for alternately closing each of the control circuits incident to movement of the diaphragm in opposite directions, and electromagnetic means energizable by one or the other of said control circuits for actuating said switch means to close one or the other of the heating circuits incident to movement of the diaphragm in one direction or the other, electrically operable rate of icing indicating means connected to be actuated by said energizing circuit and means for regulating the electrical energy in said heating circuit to determine the rate at which the tubes are heated.

2,641,929
REFRIGERANT TESTING SYSTEM
Floyd R. Eck, Des Plaines, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application October 4, 1947, Serial No. 777,900
3 Claims. (Cl. 73—295)



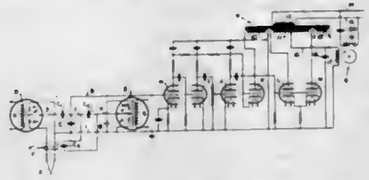
1. An apparatus for determining the level of a fluid in a conduit which comprises a support for supporting the conduit in an upright position, electrical means for supplying a current to said conduit connected thereto at spaced points along the conduit for heating the conduit in a zone extending above and at least to the supposed fluid level, thermocouples conductively connected to said conduit responsive to the heat of the conduit at different parts of said zone and means to determine the voltage output of said thermocouples.

2,641,930
FLOATABLE THERMOMETER
Earl R. Kebbon, Chatham, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application September 19, 1951, Serial No. 247,287
6 Claims. (Cl. 73—353)



1. A floatable thermometer comprising a spherical float, a transparent tube passing through the float, a weight secured to one end of the tube, a plurality of holes in the wall of the tube, and a glass thermometer disposed substantially axially within the tube and carrying temperature markings.

2,641,931
TEMPERATURE MEASURING APPARATUS
Rudolf F. Wild, Wilmington, Del., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 27, 1949, Serial No. 107,016
2 Claims. (Cl. 73—361)



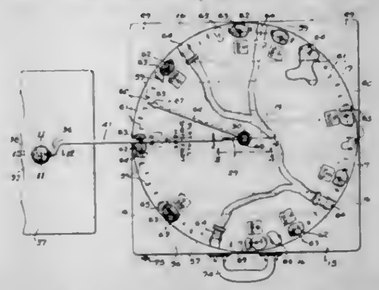
1. In a measuring circuit network of the capacitor-rebalancing type, adapted to measure the voltage of a thermocouple subject to separate hot and cold junction temperature variations, and including said thermocouple, a source of constant voltage, a capacitor of fixed capacity, a rebalancing capacitor of adjustable capacity, switching means operative in conjunction with the thermocouple, voltage source, and capacitors to periodically impress a charge proportional to the thermocouple voltage on said fixed and rebalancing capacitors, and means for adjusting said rebalancing capacitor to increase and decrease its capacity as the thermocouple voltage increases and decreases, the improved means for compensating for the changes in the thermocouple voltage due to variations in its cold junction temperature which comprise a compensating capacitor connected in parallel with said rebalancing capacitor, and means for subjecting said compensating capacitor to temperature variations substantially the same as those to which said cold junction is subjected, said compensating capacitor having a temperature coefficient of capacitance such that the aggregate capacity of said compensating and rebalancing capacitors increases and decreases as the temperature of the thermocouple cold junction decreases and increases.

2,641,932
GOLF GAME AND PRACTICE APPARATUS
Edward Van Kinkle, Flint, Mich.
Application September 25, 1950, Serial No. 186,587
6 Claims. (Cl. 73—379)



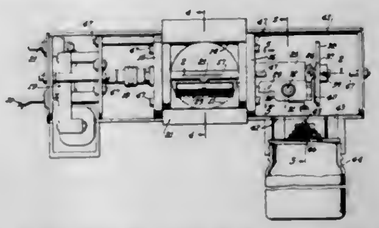
1. A golf game and practice apparatus comprising a base member, a vertically arranged tubular bearing member on said base member, a post rotatably supported in said tubular bearing member, a turntable rotatably supported by said tubular bearing member exteriorly thereof, a speed reduction mechanism connecting said post to said turntable for rotating said turntable at a slower rate of speed than rotation of said post, a removable disk supported on said turntable with calibrations thereon proportional to the rotation of the post, a rod connected to said post above said turntable and extending laterally beyond the periphery of said disk and turntable, a ball secured to the extended end of said rod, and a pointer on said base aligned with the calibrations on said disk to indicate the movement of the turntable.

2,641,933
GOLF GAME AND PRACTICE DEVICE
Edward Van Kinkle, Flint, Mich.
Application December 21, 1950, Serial No. 201,929
6 Claims. (Cl. 73—379)



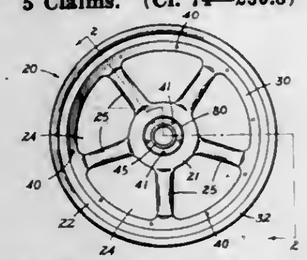
1. A golf game and practice apparatus comprising a base structure, a dial on said base with a layout of a golf course thereon, a vertically arranged rotatable shaft supported by said base structure in the center of said dial and having a downwardly extending vertical slot from its upper end, an indicator arm supported on a vertical axis above said dial and registrable with same, means connecting said rotatable shaft to said indicator arm for turning said indicator arm on its vertical axis at a slower rate of speed than said rotatable shaft, a resilient rod of rectangular cross section extending through said slot in said vertical shaft and engaging the bottom and side surfaces thereof, said resilient rod extending laterally from said shaft beyond said base and dial, a cap nut threaded on the upper end of said shaft engaging said rod at opposite sides of the slot and clamping said rod against the bottom surface of said slot, and a ball attached to the extended end of said resilient rod.

2,641,934
AUTOMATIC LIQUID SAMPLER
Richard A. Werts, Long Beach, Calif.
Application October 14, 1949, Serial No. 121,309
7 Claims. (Cl. 73—422)



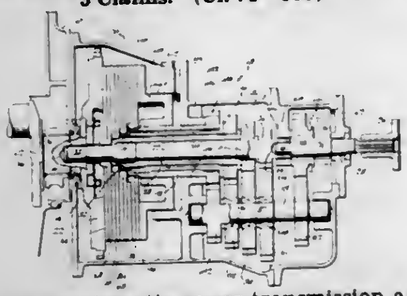
1. A line sampler comprising a body having a passage therethrough adapted to be inserted in a pipe line or similar conduit, a hollow shaft rotatably mounted in the body, an arm on the shaft, a scoop on the arm extending transversely of the passage, there being a passage in the arm establishing communication between the scoop and the interior of the shaft, means for rotating the shaft to cause the scoop to traverse the passage, and means for collecting samples conducted from the scoop through the arm and shaft.

2,641,935
STAMPED METAL PULLEY AND MANUFACTURE THEREOF
Carl E. Wilken, New Lebanon, Ohio, assignor to The Lau Blower Company, Dayton, Ohio, a corporation of Ohio
Application April 15, 1948, Serial No. 21,187
5 Claims. (Cl. 74—230.8)



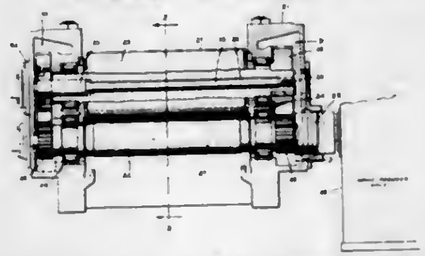
1. A pulley wheel of the character described comprising a pair of annular sheet metal disks each including a continuous peripheral rim portion and a plurality of angularly spaced spoke portions integrally connecting said rim portion with the central portion of said disk, a hub received between said central portions of said disks and welded thereto at a series of points intermediate the inner and outer peripheries of said hub, each of said disks having an annular depression in the outer surface thereof intermediate said series of welds and the outer periphery of said hub, said spokes of each said disk being inclined inwardly of said wheel with respect to the central portion of said disk to position the rim of said disk in axially offset relation with said central portion and in juxtaposition with the rim of the other said disk, said juxtaposed rims being welded together, said rims including oppositely flared peripheral portions cooperating to form a belt-receiving groove.

2,641,936
AUTOMATIC TRANSMISSION
Robert B. Walder, Detroit, Mich.
Application October 16, 1948, Serial No. 54,984
5 Claims. (Cl. 74—330)



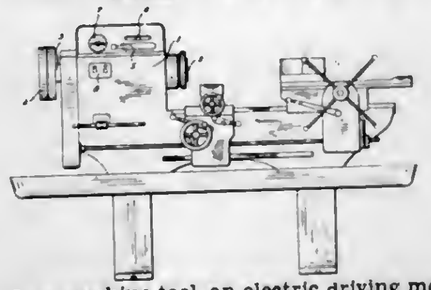
1. In an automatic power transmission a driving member, a first driven member having a forward face adapted to be brought gradually into engagement with said driving member so as to be driven thereby, a second driven member having a forward face adapted to be brought gradually into engagement with the rearward face of said first driven member so as to be driven thereby, a third driven member having a forward face adapted to be brought into engagement with the rearward face of said second driven member so as to be driven thereby, actuating means for applying a pressure which is variable for urging said third driven member toward said driving member to cause gradual simultaneous engagement of all of said members, a driven shaft, means forming a low speed driving connection between said first driven member and said driven shaft, means forming a higher speed driving connection between said second driven member and said driven shaft, means forming a still higher speed driving connection between said third driven member and said driven shaft, and overrunning clutch means being incorporated in each of said low speed and said higher speed driving connections.

2,641,937
ADJUSTABLE TORSION SHAFT IN FLYING SHEARS
John Edward Erhardt, Jr., and Joseph Silbey Duffy, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application July 15, 1949, Serial No. 104,842
5 Claims. (Cl. 74—409)



1. In combination, a first rotary head and a second rotary head fixedly disposed relative to each other in operative relationship, a gear fixed to each end of said first head, a gear fixed to one end of said second head and meshing with the corresponding gear of said first head, a torsion shaft concentrically enclosed by said second head, said shaft being fixed to the geared end of said second head and constituting a bearing for the other end thereof, a hub member fixed to said shaft adjacent the free end thereof, a gear concentrically mounted on said hub member and meshing with the corresponding gear of said first head, and means for adjustably fixing the angular relationship between said hub member and the gear mounted thereon.

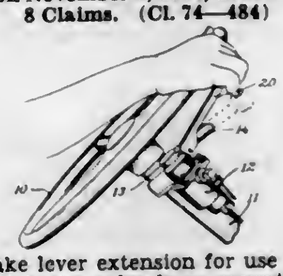
2,641,938
AUTOMATIC HEAD FOR MACHINE TOOLS
Henrik O. Kylin, Cleveland, Ohio, assignor to Bardons and Oliver, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 14, 1948, Serial No. 49,266
7 Claims. (Cl. 74—472)



1. In a machine tool, an electric driving motor, a spindle, selective gear transmission means for rotating said spindle in forward or reverse directions at any one of a plurality of selected rates, a rate change selector, electrically responsive means actuated by said rate changer

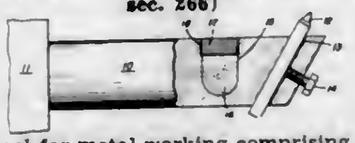
for selecting the gear ratios available in said transmission, a motor plugging circuit, and a single control member operable through a cycle including the steps of closing the motor plugging circuit prior to a rate change, effecting a rate change, and subsequently energizing said motor to drive said transmission.

2,641,939
TIP UP EXTENSION FOR AIR BRAKE LEVERS
Arnold W. McKee, Des Moines, Iowa
Application November 4, 1949, Serial No. 125,430
8 Claims. (Cl. 74—484)



1. A brake lever extension for use in conjunction with a brake valve lever mounted on a vehicle steering wheel column, the extension including a clamping sleeve slidably embracing said lever, means for securing the sleeve in place upon the lever, an arm, means pivotally securing said arm to said sleeve, a portion of said arm overlapping said lever, the free end of said arm being pivotal toward and away from the periphery of the steering wheel.

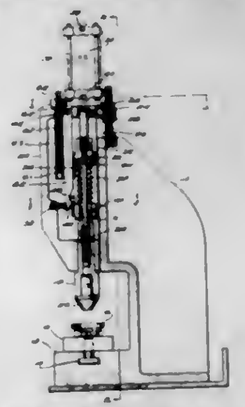
2,641,940
SPECIAL BORING BAR
Dan White, Cleveland, Ohio
Application August 9, 1949, Serial No. 109,383
3 Claims. (Cl. 77—58)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A tool for metal working comprising a body, a bore in said body, the axis of said bore being perpendicular to a plane through the center line of the body, a single point cutting tool subject to torsional vibration extending laterally beyond the surface of the body on one side of the aforesaid plane, at least one half of said bore being on the opposite side of said plane, and a freely movable, non-packing, high density powdered substance partially filling said bore so as to permit the movement of more than half of the powdered substance into the above mentioned half of said bore when the tool is rotated.

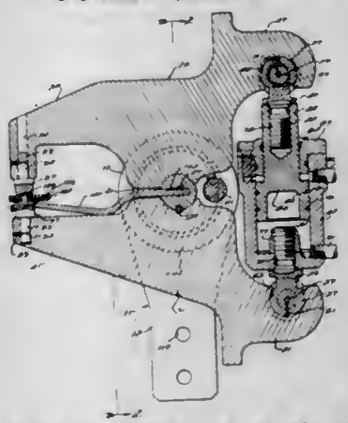
2,641,941
ACTUATING MECHANISM FOR IMPACT MACHINES
Edgar C. Lundeberg, Hartford, Conn.
Application June 16, 1948, Serial No. 33,360
8 Claims. (Cl. 78—25)

1. In an actuating mechanism for an impact machine, the combination of a frame, a plunger movable longitudinally relatively to said frame toward an impact position, a latch, means for mounting the latch on said frame, said mounting means being constructed to permit transverse movement of the latch but to prevent longitudinal movement thereof, means biasing said latch for engagement with the plunger to hold it in a position remote from the said impact position, a second plunger in alignment with the first plunger and movable longitudinally relatively to the frame, means connected with the second plunger for moving it toward the said impact position, a heavy spring connected with and interposed between the two plungers which spring is tensioned upon movement of the second plunger toward the said impact position while the first plunger is held by the latch, a latch moving element mounted for longitudinal adjustment along the path of movement of said second plunger and, in adjusted position, being engaged and displaced upon movement of the said plunger toward the impact position, said element being connected to



said latch in any position thereof to utilize the displacement of the said element for moving the latch transversely so as to release the first plunger and thus permit the heavy spring to drive the first plunger toward the said impact position independently of the second plunger, and means for longitudinally adjusting the latch moving element to change the position at which the said element is engaged by the second plunger and to thus change the amount of spring tension prior to the release of the first plunger with a resultant change in the amount of force exerted by the spring to move the said first plunger toward the said impact position.

2,641,942
FORCE APPLYING TOOL
Otto Mueller, Dearborn, Mich.
Application May 3, 1947, Serial No. 745,845
6 Claims. (Cl. 78—52)



1. In a force applying tool, a pair of parallel plates each having an inwardly extending annular

flange in spaced aligned relation, bearing means releasably secured between said plates on the center line of said flanges, a pair of rockable arms disposed between said plates and each having outwardly extending bosses formed thereon intermediate the ends thereof, sleeve means on said plates engaging the inner surfaces of said annular flanges, the inner periphery of each of said arm bosses mating with the bearing surfaces of said bearing means, the outer periphery of each of said arm bosses mating with a portion of the inner periphery of said sleeve means, means for supporting said plates, force applying means disposed between the ends of said arms on one side of the supporting plates for moving the ends away from each other when moving the opposite ends of the arms toward each other with a predetermined pressure, and work applying elements disposed on the ends of the arms opposite to that actuated by the force applying means.

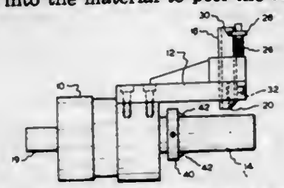
2,641,943
BOTTLE SCREW CAP REMOVER
Frank Krize, Jr., Natchez, Miss.
Application February 2, 1951, Serial No. 209,115
1 Claim. (Cl. 81—3.4)



A bottle screw cap remover comprising a body of solid material shaped in the form of a human figure, said body having a flat bottom and formed with a generally conical recess opening at said bottom, and a plurality of equally spaced, relatively thin, straight saw blades embedded and rigidly secured in the wall of said recess and extending along the surface thereof with the serrated edges of the blades exposed and facing inwardly in said recess, laterally extending flanges formed on the embedded edges of said blades, the serrations on said exposed edges facing downwardly and inwardly in the recess, defining gripping elements engageable with a bottle screw cap when the body is placed over a cap to be removed.

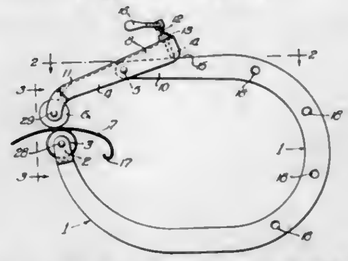
2,641,944
HOSE COVERING STRIPPING TOOL
Charles A. Laffoon, Miami, Fla., assignor to Aeroquip Corporation, Jackson, Mich., a corporation of Michigan
Application October 19, 1949, Serial No. 122,214
3 Claims. (Cl. 81—9.51)

1. Apparatus for removing an outer layer from the material of an end portion of a length of flexible hose comprising in combination a rotatable body structure, a mandrel on said body structure, coaxial with the axis of rotation of the body structure, said structure including a tool holder, a cutting tool mounted in said holder in perpendicular relationship to said axis, said tool having in an integral structure a leading cutting edge for cutting radially into the hose material and having also a trailing cutting edge for cutting axially into the material to peel the radially cut



material from the hose, and means for adjusting said tool on its holder to adjust the depth of radial cut.

2,641,945
MANUALLY OPERATED FENDER RESHAPING ROLLER
Lawrence R. Harris, Vida, Oreg.
Application March 15, 1947, Serial No. 734,916
3 Claims. (Cl. 81—15)



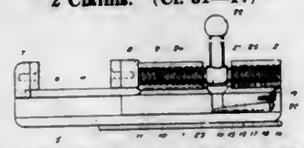
2. A fender reshaping tool comprising a frame to manipulate said tool, coacting rollers connected with said frame for rotation about spaced axes, and means to selectively vary the spacing between said rollers while the latter engage opposite sides of fender surface deformities, and yielding frictional braking means between said rollers and frame to retard the free rotation of said rolls during the movement of said frame, said rolls having ridged surface contours to aid in drawing out and rolling straight the fender deformities under the action of the retarded revolving rolls.

2,641,946
HINGE ADJUSTING AND BENDING TOOL
Frank A. Phipps, Avondale, Mo., assignor to Carl H. Kruse, Kansas City, Mo.
Application May 20, 1948, Serial No. 28,066
2 Claims. (Cl. 81—15)



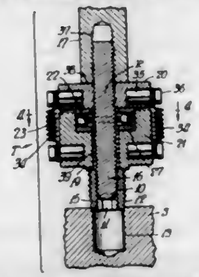
1. As an article of manufacture, a tool comprising an L-shaped member having an elongated leg presenting a handle and a relatively short, elongated working leg, the ends of the short leg being flat and parallel, that end of the short leg proximal to the handle being in a plane passing through the handle in parallelism to the longitudinal axis thereof and perpendicular to the longitudinal axis of the short leg, there being an elongated head on the member at the outermost angle between the legs of the member, the longitudinal face of the head being outwardly arched and extending from the said flat end of the short leg proximal to the handle in a direction toward that end of the handle opposite to the short leg, terminating in an edge spaced from the handle.

2,641,947
SCREW-OPERATED VISE HAVING WEDGE CLUTCH
Carl Stig Lennart Werne, Gothenburg, Sweden
Application January 13, 1950, Serial No. 138,738
In Sweden January 27, 1949
2 Claims. (Cl. 81—17)



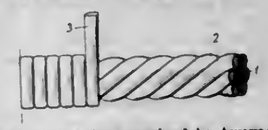
1. A screw vise comprising a base, a jaw fixedly mounted on said base, means forming guideways extending towards said fixed jaw and mounted on said base, a jaw carrying slide slidably mounted on said guideways, a second slide slidably mounted on said guideways and having the side thereof facing the bottom of said guideway slanting downwardly towards said first mentioned slide, a wedge providing a locking clutch for said second slide being slidably positioned between said slanting bottom of said second mentioned slide and the bottom of said guideway with the thin edge of said wedge extending from said second slide towards said first slide for being moved to an unclutching position upon contact therewith, means for moving said slides in opposite directions at the same time along said guideways, and resilient means tending to retain said wedge beneath said second slide.

2,641,948
DRIVER TOOL FOR SELF-TAPPING INSERTS
Felix W. Braendel, Teaneck, N. J., assignor to Groov-Pin Corporation, a corporation of New York
Application January 9, 1951, Serial No. 205,094
7 Claims. (Cl. 81—53)



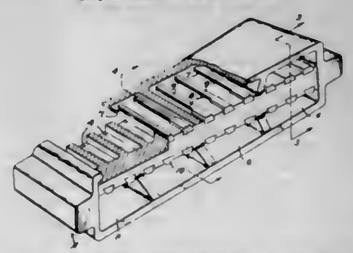
1. A quick release driver tool for the application of a self-tapping screw mounting insert into an untapped bore in metal or the like, said tool comprising a shank, a tool release collar encompassing said shank, said shank having a threaded end protruding beyond said collar for releasable screw mount of an insert thereon, a low friction thrust bearing encompassing the shank, said shank having means to press said thrust bearing against said tool release collar, and means for limiting the rotary movement of the release collar relative to the shank.

2,641,949
METAL STRING FOR MUSICAL INSTRUMENTS
Povl Emanuel Jensen, Copenhagen, Valby, Denmark
Application October 16, 1950, Serial No. 190,267
In Denmark April 24, 1948
6 Claims. (Cl. 84—297)



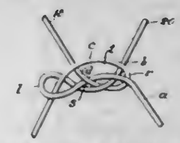
1. A metal string for musical instruments comprising a tension bearing tube formed of a plurality of steel strands, and a central insert for said tube formed of a softer material than said steel strands and consisting of at least one solid length of material which has no appreciable variation in diameter throughout the length thereof, said steel strands being twisted tightly about said central insert, and said central insert having no tension imposed load thereon but serving only to fill out the cavity in said tube.

2,641,950
HARMONICA
Joseph West, Finchley, London, and Jack Brooksbank, Morden, England
Application July 30, 1948, Serial No. 41,684
In Great Britain April 23, 1948
5 Claims. (Cl. 84—377)



1. A harmonica comprising, in combination, a single-piece molded body having blow holes, sound chambers, reed slots between said blow holes and sound chambers, and dovetailed reed-receiving grooves at one end of said reed slots and opening through one side of the body, and reeds extending from dovetailed base portions which are removably fitted in said grooves.

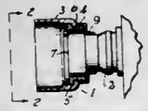
2,641,951
KNOT AND ¾
Rudolph Sonnberger, Chicago, Ill., assignor to R. J. Ederer Company, Chicago, Ill., a corporation of Illinois
Application September 4, 1952, Serial No. 307,792
7 Claims. (Cl. 87—12)



3. A net formed from a series of strands knotted together at intervals, each knot being formed

from a first and second strand, said first strand having a loop and a sub-loop therein with a pair of legs leading away from the sub-loop, a strap portion in the second strand with a pair of legs leading away therefrom and crossing each other to form a loop, said strap portion residing between the legs leading away from the sub-loop in the first strand, one of the legs leading away from the strap portion in the second strand passing through the loop formed in the first strand, and the other of the legs leading away from the strap portion in the second strand passing through the sub-loop.

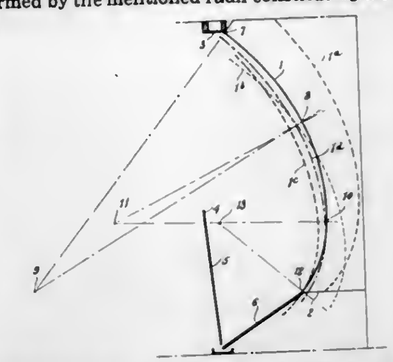
2,641,952
MOTION-PICTURE CAMERA LENS ATTACHMENT
Lawrence J. Mellert, Atlanta, Ga.
Application September 26, 1950, Serial No. 186,776
2 Claims. (Cl. 88—1)



1. A camera attachment comprising, a plurality of cooperatively telescoping hollow members, one of said members having a flange extending laterally from one end thereof, the other of said members having diametrically opposite spaced cut-a-way portions on one end thereby leaving portions of the hollow member between the cut-a-way portions and projecting beyond said cut-a-way portions, said projecting portions having their extremities turned inwardly toward each other to form depending flanges, the flanges of said respective hollow members interlocking to limit extended axial movement of said members beyond a predetermined extended position, the flange on said one member being spaced from the adjacent edges of the cut-a-way portions on said other member in such predetermined extended position to form a transverse aperture for receiving a slide member therethrough, an annular adaptor adapted to telescope at one end over the other end of said one member and having a tubular extension at its other end adapted to telescope over a camera lens barrel. and means coacting between the corresponding telescoping ends of the adaptor and of said one member for axially positioning the adaptor thereon and against the depending flanges of said other member to secure the members in their predetermined extended position.

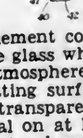
2,641,953
DISPLAY WINDOW
William E. McCormick, New York, N. Y., assignor to Invisible Glass Company of America, Inc., New York, N. Y., a corporation of Delaware
Application August 7, 1951, Serial No. 240,700
1 Claim. (Cl. 88—1)

In a display window, a transparent pane having a surface of irregular curvature formed as three sections each having a radius of different length, and merging imperceptibly into one another, the upper portion of a pane having a height of six feet, being formed with a curve having a radius of approximately six feet, five inches, the second curve being located in the pane below the first curve and having a radius of approximately four feet and seven inches, and the third curve being located below the second curve having a radius of approximately three feet and one inch, the radii of the three curvatures thus decreasing in length from the upper curvature to the lower curvature, the curved surface areas formed by the mentioned radii constituting a con-



tinuous surface formed around a horizontal axis to permit the pane to be fixed in various reasonable installation positions without developing reflections to the observer when viewed from the concave side at about normal eye level.

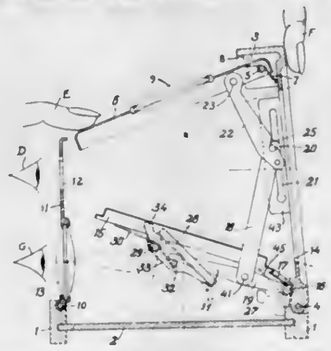
2,641,954
PROTECTIVE COATINGS FOR OPTICAL ELEMENTS AND METHODS FOR APPLYING THEM
Philip T. Scharf and William J. Keenan, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 6, 1950, Serial No. 160,508
6 Claims. (Cl. 88—1)



5. An optical element comprising a base consisting of unstable glass which deteriorates upon exposure to the atmosphere, said element having all light transmitting surfaces ground, polished and protected by transparent solid materials, the protective material on at least one of said surfaces consisting of a layer of silicon monoxide sublimed on the surface in a vacuum at a pressure less than one micron Hg and a layer of magnesium flouride sublimed on the layer of silicon monoxide in the same vacuum and before the latter has appreciably changed to silicon dioxide.

2,641,955
FOCUSING HOOD FOR PHOTOGRAPHIC CAMERAS
Hermann Bretthauer, Braunschweig, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany, a firm of Germany
Application February 8, 1951, Serial No. 209,970
In Germany March 3, 1949
6 Claims. (Cl. 88—1.5)

1. A photographic camera focusing hood arranged for use both in downward viewing of a focusing screen below said hood and as a horizontal direct view finder, said hood comprising walls including a front wall having a direct view finder aperture therein and a rear wall also having a direct view finder aperture therein and a focus observation aperture below said direct view finder aperture, a closure panel for closing said aperture in the front wall when said hood is used for downward viewing, said panel being mounted to swing downwardly and rearwardly about an axis near its lower edge to an open viewing position inclined upwardly and rearwardly from said axis and lying below the line of sight from the rear finder aperture to the front aperture when said hood is used as a direct view finder, and a mirror pivotally mounted in rear of said closure panel and movable bodily therewith when said closure panel is swung from its closed position to its viewing position, characterized by spring means tending to swing said closure panel upwardly from said open viewing position toward front wall closing position, a control member

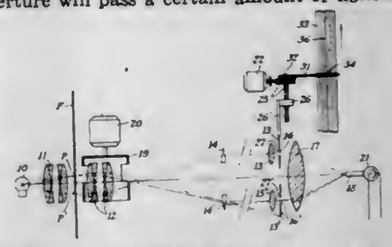


mounted for limited movement relative to both said closure panel and said mirror, latching means serving, when in effective latched position, to resist upward movement of said control member and thereby to limit upward swinging of said closure panel under the influence of said spring means, and interengaging parts on said mirror and said control member for tilting said mirror relative to said panel when said closure panel is moved downwardly with said control member to place said latching means in its effective latched position and is then released, from a position in which said mirror is approximately parallel to said closure panel, to a position in which said mirror is at a substantial angle to said closure panel effective to reflect rays of light from a focusing screen below said hood backwardly through said observation aperture in the rear wall of said hood.

2,641,956
FILM-PERFORATION PITCH GAUGE
Charles A. Morrison, Rochester, and Fordyce M. Brown, Huntington Station, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 21, 1948, Serial No. 45,508
11 Claims. (Cl. 88—14)

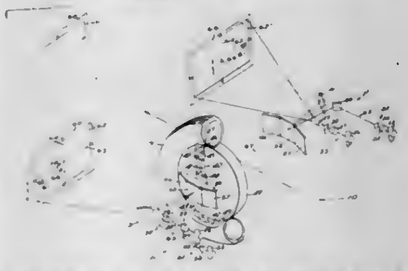
1. A film-perforation gauge comprising means for holding a perforated film strip stationary in a flatwise and extended condition in a given plane, means for simultaneously illuminating adjacent perforations of said film strip with light of the same intensity, an optical projection system for projecting an image of each of said perforations in the same plane in spaced relation corresponding with the pitch of said perforations, a pair of similar apertured masks located in the image plane of said projection system

in spaced relation to have projected thereon opposite ones of the perforation images the aperture in each of said masks being smaller in area than the perforation images and said apertures spaced apart by a distance such that corresponding edges of the two apertures correspond to a standard pitch value and mask corresponding edges of the two perforation images, whereby each aperture will pass a certain amount of light de-



pending upon the separation of the corresponding edges of said apertures relative to the separation of the corresponding edges of the two images masked thereby, and the amount of light passing each aperture will be equal if the perforation pitch being measured is equal to the standard pitch value, and means for measuring and comparing with one another the amounts of light passing through each of said apertured masks.

2,641,957
MIRROR AND LIGHT BEAM WHEEL CHECKING APPARATUS AND METHOD OF CORRECTING FOR RUN-OUT IN EMPLOYING SAME
Myrton L. Vandermeer, Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application July 14, 1948, Serial No. 38,616
7 Claims. (Cl. 88—14)



7. A method of operating an apparatus for measuring alignment characteristics of a pair of dirigible wheels which apparatus comprises, for each one of said wheels, a mirror fixed on said wheel and approximately but not exactly perpendicular to the axis of said wheel, a screen, means providing a chart on said screen, and means mounted independently of said wheel and projecting a beam of light along a path having a fixed orientation relative to a line through the centers of said wheels with the latter turned straight ahead, said beam impinging on said wheel mirror and the reflected beam being directed onto said screen to produce a cross hair image superimposed on said chart, said chart having vertical and horizontal sets of calibrations which sets are laid off respectively to measure two different alignment characteristics of said

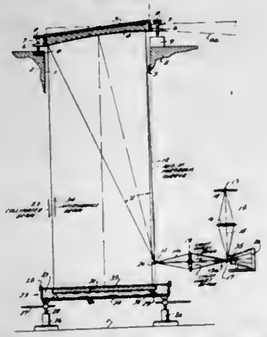
wheel when said cross hair image is correctly related with said calibrations, said method comprising the steps, for each of said wheels, of rotating said wheel to cause its cross hair image to inscribe a circle on its screen, whereby the diameter of said circle may be measured and the location of the center of said circle with reference to said chart may be noted, halting said wheel with said cross hair image at a particular point on the circumference of said circle and in a particular direction from the center of said circle, and shifting said chart in the direction in which said cross hair image is disposed from the center of said circle, a distance equal to the radius of said circle, the location of said cross hair image on said chart being thereby brought into true relation with said vertical and horizontal sets of calibrations permitting true readings to be made on said chart of said two alignment characteristics.

2,641,958

METHOD AND TEST EQUIPMENT FOR MEASURING THE QUALITY OF GLASS SURFACES OF UNUSUALLY LARGE DIMENSIONS UNDER DIFFERENT SUPPORTING AND LOADING CONDITIONS

Theodor W. Zobel, Braunschweig, and Ferdinand Mirus, Weiner, Germany

Application January 9, 1951, Serial No. 205,162
7 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



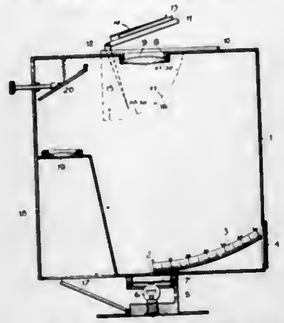
1. In an optical apparatus for investigating the optical quality of large area surfaces of an unusually large size plate and especially a thin flat glass plate; a work holder comprising an open top receptacle for receiving the plate; means supporting the plate therein in a horizontal position; said receptacle receiving a reflecting liquid therein having a comparative liquid reflecting surface disposed in vertically spaced close parallel relation to the investigated plate surface; light collimating means including a light source having a symmetrical light inlet and light outlet located above the investigated plate at one side thereof; said collimating means having a parabolic reflector with its optical axis disposed vertically, immediately at one side of the edge of the plate being investigated with a parabolic mirror portion at least as large in area as the area of the investigated plate surface disposed directly above said investigated plate surface with its focal point disposed at the symmetrical light inlet and exit, whereby the parabolic reflecting surface is illuminated by the light inlet to reflect a collimated light beam vertically downward to the investigated plate surface and to the comparison liquid reflecting surface, and is reflected upwardly, partially by the comparative liquid surface and partially by the investigated plate surface to form a reflected returning interference beam, reflected by the parabolic mirror portion through its focal point as the light exit beam; and optical means disposed in the exit beam for producing an image of the light interference in the interference beam between the entire plate surface and the liquid reflecting surface.

2,641,959

DEVICE FOR MEASURING THE PRINCIPAL DIMENSIONS OF ERYTHROCYTES

Dirk Verveen, Aerdenhout, Netherlands

Application January 9, 1950, Serial No. 137,513
In the Netherlands April 28, 1949
2 Claims. (Cl. 88—14)



1. In combination in a device for measuring the principal dimensions of red corpuscles in a preparation, comprising a box-like structure having an aperture in one wall thereof, a source of light placed behind said aperture, a scale positioned within said box-like structure at one side of the aperture and having its zero point registering with that edge of said aperture closest to the scale, first lens means positioned in the wall opposite said aperture, means for adjustably supporting an object glass above said lens means, partitioning means mounted in said box-like structure and forming therewith a compartment having an opening at the lower portion thereof, second lens means mounted at the upper portion of said compartment, first reflecting means arranged adjacent said light source for projecting light therefrom into said compartment upon said second lens means, and second reflecting means arranged outside said compartment so as to receive the light passing through said second lens means and projecting said last-mentioned light downwardly upon said scale.

2,641,960

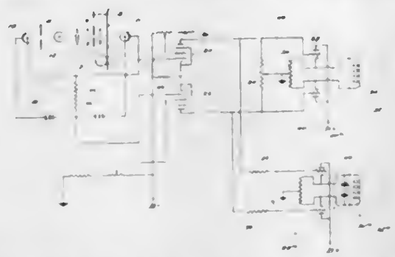
INDICATING AND RECORDING DEVICE FOR YARN DIAMETERS

Fred P. Strother, Old Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York

Application May 14, 1947, Serial No. 748,081
13 Claims. (Cl. 88—14)

1. A diameter meter and recorder for travelling yarn comprising a resistor, photoelectric means for creating a potential difference across said resistor varying with departures of the yarn diameter from a predetermined value, means for amplifying said potential difference, a pair of

power amplifiers each connected to said amplifying means, a device energized by one of said power amplifiers for continuously recording said amplified potential difference in terms of yarn diameter variations, and a second device and damping means therefor energized by said sec-



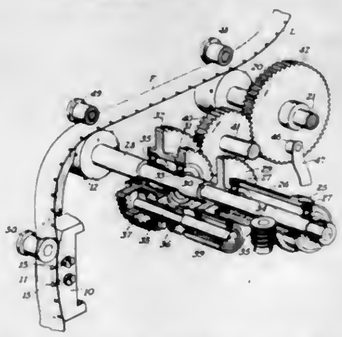
ond power amplifier for continuously recording said amplified potential difference in terms of average variations of yarn diameter, said devices including styli positioned to produce in juxtaposed relation traces representing diameter variations in the same section of yarn.

2,641,961

FILM DRIVE COMPENSATORY MECHANISM

Raymond W. Wengel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 21, 1952, Serial No. 283,297
15 Claims. (Cl. 88—18)



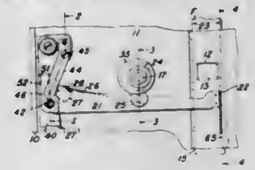
1. In photographic apparatus having a film gate provided with an aperture, the combination with a film advancing means for moving a film strip past said aperture, of film driving members arranged ahead of said film gate and including a compensatory driving member having a driving point and an auxiliary driving member having a hold-back point and for moving said film strip toward said film gate, the compensatory driving member being arranged between said film gate and said auxiliary driving member, and drive means including a differential gear train for operatively coupling and imparting rotation to said film driving members and for varying, in accordance with the length of film between said film driving members, the relation of the driving point of said compensatory driving member with respect to the hold-back point of said auxiliary driving member.

2,641,962

INTERMITTENT FILM-FEEDING MECHANISM

Vernon H. Jungjohann, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 12, 1952, Serial No. 271,188
3 Claims. (Cl. 88—18.4)



2. In an intermittent film-feeding mechansim the combination of a film gate providing a straight path through which a perforated film strip is adapted to be fed in a longitudinal direction, a rigid elongated claw arm extending laterally to one side of said film path and pivoted at one end removed from said path to allow the desired edgewise arcuate movement for intermittently advancing the film through the gate, a primary claw fixed to the free end of said claw arm and extending substantially at right angles thereto, cam means engaging said claw arm intermediate its ends and adapted to control movement of the arm arcuately of its pivot to advance the film one frame at a time, an auxiliary claw fixed to the free end of said arm to move therewith and spaced from said primary claw in a direction longitudinally of said film path by a multiple of the spacing between the individual perforations of the film, whereby while said primary claw is adapted to engage one perforation of the film the auxiliary claw is adapted to engage another perforation removed therefrom by more than one perforation pitch, and means for confining said auxiliary claw to a substantially reciprocal rectilinear movement longitudinally of said film path in alignment with the row of perforations in the film in opposition to a normal arcuate movement in the plane of said film path resulting from the pivoted mounting of said claw arm, said last-mentioned means comprising fabricating the auxiliary claw from a material and in such a manner that it is flexible in a flatwise direction and substantially rigid in an edgewise direction, mounting said auxiliary claw on the end of said claw arm adjacent one end so that it is free to flex flatwise in a plane parallel to said film path, and a rigid guiding surface extending rectilinearly substantially longitudinally of said film path and adapted to engage a portion of said auxiliary claw at a point removed from its point of attachment to said claw arm to confine it to a rectilinear movement as opposed to an arcuate movement by flexing said claw.

2,641,963

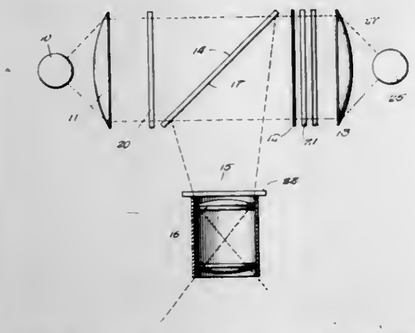
METHOD AND APPARATUS FOR INCREASING CONTRAST OF TRANSPARENCIES

Stanley R. Carter, Chicago, Ill.

Application November 16, 1950, Serial No. 196,025
6 Claims. (Cl. 88—24)

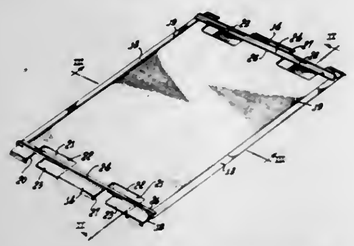
1. The method for increasing contrast in a transparency which includes the steps of passing light through the transparency, reflecting the light passing through the transparency in the reverse direction with each ray of light passing twice through the same area of the transparency, passing additional light through the

transparency only in said reverse direction and then directing at least a portion of all the light



passing through the transparency in said reverse direction to a viewing area.

2,641,964
EASEL CONSTRUCTION
Edward F. Jaros, Arcadia, Calif., assignor to Schoen Products Company, Gardena, Calif., a corporation of California
Application July 23, 1951, Serial No. 238,080
4 Claims. (Cl. 88—24)



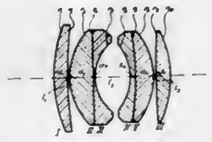
1. An easel construction comprising: a single blank of sheet metal stock having a smooth flat top surface, said blank having a main portion of rectangular form and of uniform width, and end extensions of less width than said main portion, said main portion and end extensions being defined by recesses at each corner of the blank, said main portion having longitudinally extending side marginal strips adapted to be infolded into spaced relation with adjacent sections of the main portion to form parallel inwardly facing side channels, said recesses defining the width of said side strips; said infolded marginal strips having longitudinally extending masking edges and adapted to support transverse members providing transverse masking edges; said end extensions having downwardly curved outer margins to guide a paper sheet to be printed into the side channels; means forming a pair of spaced parallel longitudinal slots in each end extension, said slots extending into said main portion; and metal tabs, provided by forming said slots, each being bent first downwardly and then outwardly to form a leg and a foot for supporting said main portion above a supporting surface, said legs being spaced inwardly from said end extensions for accommodating lateral insertion of fingers beneath ends of said blank.

2,641,965
MAGNIFYING ATTACHMENT FOR LAMP SHADES
Joseph M. Valenza, Houston, Tex.
Application December 12, 1949, Serial No. 132,428
1 Claim. (Cl. 88—39)



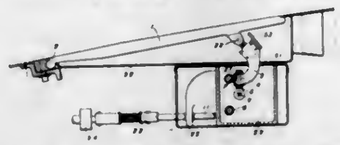
An attachment for lamps of the type including a substantially anticlinal shade, comprising a bracket including a substantially V-shaped, resilient clamp engageable transversely on the shade and terminating in inturned, resilient end hooks engageable under the longitudinal edges of said shade for securing said clamp under tension thereon, an integral ball projecting longitudinally from one end portion of the clamp, a magnifying lens, and a split ring encircling the lens and including opposed end portions frictionally gripping the ball for adjustably mounting the lens on the clamp.

2,641,966
FOUR-MEMBER PHOTOGRAPHIC OBJECTIVE
Jaroslav Orel, Prerov, Czechoslovakia, assignor to Meopta, národní podnik, Prerov, Czechoslovakia, a corporation of Czechoslovakia
Application January 20, 1951, Serial No. 206,961
In Czechoslovakia February 1, 1950
5 Claims. (Cl. 88—57)



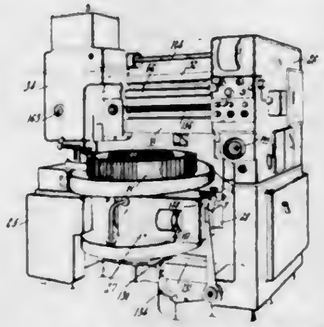
1. A photographic objective in which the spherical and chromatic aberrations, astigmatism, coma and distortion are corrected, consisting of four members axially spaced and separated by air gaps, of which the two outer members are simple convergent lenses and the two inner members are divergent menisci whose concave surfaces face the diaphragm therebetween, each of said inner members consisting of two lenses united by cement, of which the lens in the vicinity of the diaphragm is a divergent one, the radius of the cemented surface of the meniscus component on the object side being 5 f to 500 f, whereby f is the focal length of the objective, the radius of the cemented surface of the meniscus component on the image side being concave against the direction of the advancing light and being f to 2 f, and of the two radii of the outer converging lens on the image side, the radius facing the object being between ten times the radius, that faces the image, and ∞.

2,641,967
GUN BLAST DOOR
George Bussiere, Los Angeles, Quinton C. Johnson, Torrance, and Joseph E. Straub, Manhattan Beach, Calif., assignors to North American Aviation, Inc.
Application May 28, 1949, Serial No. 95,896
10 Claims. (Cl. 89—37.5)



5. In an aircraft having a port opening for a gun, a door for said opening, and actuating means for said door, said actuating means including a driving gear and a driven gear for urging said door into closed position, means for urging said door into open position, and means for disengaging said driving gear from said driven gear to permit operation of said door opening means.

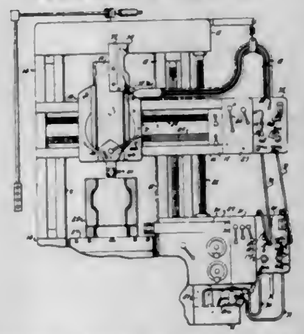
2,641,968
GEAR SHAPING MACHINE WITH DISPLACEABLE APRON
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application September 16, 1948, Serial No. 49,531
12 Claims. (Cl. 90—7)



1. In a gear shaping machine having a shiftable spindle carriage, a spindle mounted in said carriage to reciprocate endwise, a crank shaft, and means operated by said crank shaft for reciprocating said spindle, a cam rotatable in unison with said shaft, a depth feed cam disposed for applying force to said carriage so as to shift it linearly, mechanism operated by said first named cam for imparting step by step movement to the depth feed cam, an electrically controlled lock normally engaged with said mechanism to prevent transmission of rotation to the depth feed cam, a rotatable work spindle, a timer having a rotatable element driven in unison with said work spindle, means whereby said timer causes said lock to be released, whereby actuation of the depth feed cam is caused to take place, a dial rotatable simultaneously with the depth feed cam and means operated by said dial for activating and deactivating the timer.

6. In a gear shaping machine, a supporting structure, a work spindle apron mounted thereon and movable linearly and angularly from its operating position, and a pivotally mounted supporter for said apron arranged to receive the apron when retracted linearly from its operating position and being rotatable about its pivot when the apron is supported upon it so as to enable the apron to be swung in a manner to carry the work spindle away from the supporting structure.

2,641,969
MACHINE TOOL CONTROL MECHANISM
Erwin G. Roehm, Norwood, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application October 1, 1949, Serial No. 119,185
20 Claims. (Cl. 90—13.5)

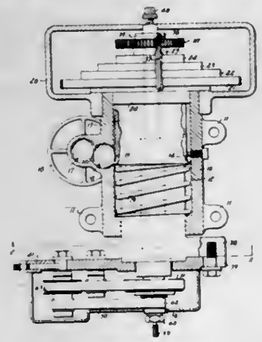


8. Hydraulic actuating means for a machine tool or the like including a pair of hydraulic motors, an individual rate and direction selecting valve for each of said motors, a source of hydraulic actuating medium for the motors, and a tracer control mechanism including a reciprocable valve, a movable tracer variably positionable to determine the position of the valve, conduit means coupling the source of hydraulic medium with the tracer valve for distribution of flow thereby, distribution conduits extending from the tracer valve to receive actuating hydraulic medium therefrom in accordance with the position of the valve, control conduits coupled with one of said pressure distribution conduits, and limiting means for the rate and direction selecting valves of the respective motors coupled with and operable by introduction of pressure into said tracer controlled hydraulic control circuits.

2,641,970
HIGH-SPEED SPINDLE CONSTRUCTION
Alfred G. Plimmer, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application September 28, 1950, Serial No. 187,247
2 Claims. (Cl. 90—16)

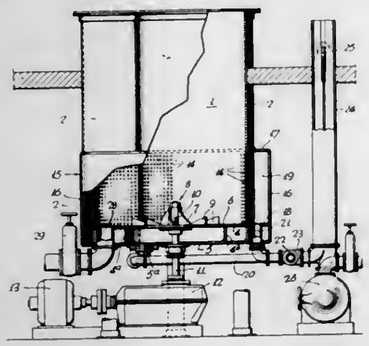
1. A high speed spindle structure for use in connection with a milling machine or the like including a quill, a main hollow spindle journaled in the quill, an auxiliary high speed spindle rotatably journaled within the main spindle, a driving pulley carried by the main spindle, a drivable pulley carried by the high speed spindle, said quill having a stud portion adjacent said driving pulley and radially extending attachment lugs, a frame plate having a socket to receive the stud portion of the quill and attachment lugs for cooperation with the lugs on the quill, means for securing the attachment lugs on the plate to the lugs of the quill, said plate having an extending

frame portion provided with a stud receiving slot, a stud axle adjustably mounted in said slot, a back pulley unit carried by said axle having a pair of spaced pulley portions, a first belt connecting the pulley on the main spindle with one of said pulleys on the unit, a second belt connecting the other pulley of the unit with the pulley on the auxiliary high speed spindle, said plate having a passage formed therein intersecting said slot, and



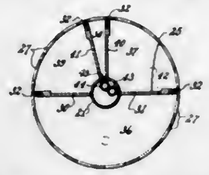
an adjusting member carried by the stud axle having a portion extending by way of the passage to the edge of the plate, a nut mounted on said adjusting member and engaging the plate for determining the positioning of the axle, and additional means for locking the axle in adjusted position whereby the adjustment of the axle will determine the tension of the pulley connecting belts.

2,641,971
PAPER STOCK PULPER
Enright A. Ellis, Villanova, Pa., assignor to Downingtown Manufacturing Company, Downingtown, Pa., a corporation of Pennsylvania
Application February 7, 1949, Serial No. 74,996
7 Claims. (Cl. 92—23)



1. Apparatus for treating fibrous paper stock material comprising a tank having a flat bottom and a vertical side wall provided with at least three upwardly extending concave lobes arranged uniformly with respect to the axis of the tank, a rotary impeller mounted in the bottom of the tank for rotation axially thereof, and means for withdrawing treated material from said tank.

2,641,972
CYLINDER MOLD FOR PAPERMAKING MACHINES
George A. Engert, North Hoosick, N. Y.
Application November 21, 1949, Serial No. 128,655
1 Claim. (Cl. 92—43)

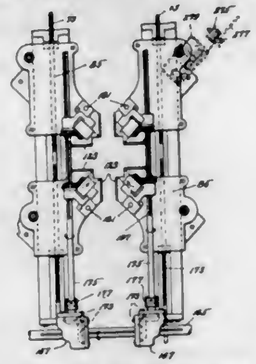


A cylinder mold for operation in the stock vat pond of a paper making machine comprising a hollow cylindrical shell having a series of closely spaced relatively large openings in the wall thereof and a smooth inner and outer surface, supporting spiders solely at the ends of said shell, a stationary pipe of relatively small diameter throughout supporting said shell, hubs on said spiders journaled on said pipe, a plurality of spaced rods fixed longitudinally on the outer surface of the shell, closely spaced, transverse wires encircling said rods and a wire mesh screen covering over said wires in closely spaced relation to said shell, the interior of said shell being compartmented into four chambers, horizontally disposed flat walls extending longitudinally of the shell and laterally from each side of said pipe and fixed thereto to form a lower semi-cylindrical chamber, said stationary shell supporting pipe having a suction passage therethrough and suction ports in the wall of said pipe communicating with said lower chamber, a flat vertically disposed wall fixed to the pipe on the upper surface thereof and extending radially to the inner surface of said shell to form with one of said horizontal walls and therebetween an inlet side of said cylinder shell, a second pipe longitudinally disposed within said shell supporting pipe and forming a second suction conduit, said second pipe having suction port conduits communicating through the wall of the shell supporting pipe between said latter walls for creating a second suction chamber for the inlet side of said shell, a flat wall closely spaced from said vertical wall and on the outlet side of the same to form therebetween a pressure chamber, a pressure conduit in said pipe and ports therein communicating with said pressure chamber, the chamber formed by said last-named wall and the horizontal wall at the outlet side of said shell being closed and preventing communication at said outlet side with any of said other chambers, semi-circular end walls adjacent said spider supports closing off the ends of said chambers in the upper portion of said shell and sealing gaskets at the outer ends of the walls abutting the smooth inner surface of the shell.

2,641,973
MACHINE FOR MAKING PAPER BOXES
Clayton Straw, Henniker, N. H., assignor to Henry Russell Davis, Jr., Winchester, Mass.
Application September 15, 1945, Serial No. 616,506
27 Claims. (Cl. 93—41)

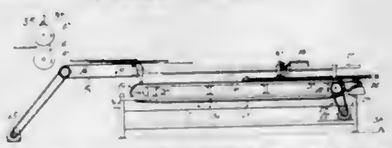
26. In a box-staying machine, in combination, a form, stay-feeding devices, a metallic corner presser applying the stays to the corners of the box, means heating the surface of the presser which applies the stays, a metallic corner block in which the presser reciprocates and on which

the stay-feeding devices are mounted, and means supporting and guiding the presser in its movements toward and from the box and preventing



metal-to-metal heat conduction from the heated portions of the presser at and adjacent the heated surface thereof to the corner block.

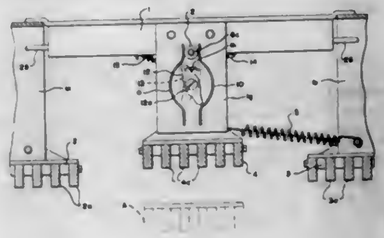
2,641,974
APPARATUS FOR CUTTING AND STACKING SHEETS
Arthur F. Sperling, Milwaukee, Wis., and William E. Schroeder, Westmont, N. J., assignors to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey
Application August 5, 1949, Serial No. 108,844
14 Claims. (Cl. 93—93)



5. An apparatus for receiving and stacking successively delivered stiff sheets and delivering batches of such sheets, each batch comprising a predetermined number of sheets, said machine including a table onto one end of which the sheets are delivered, a stop in the path of movement of said sheets on the table, a sheet counter, a sheet pusher movable over said table to deliver successive batches of sheets from the table, means controlled by said sheet counter for actuating said pusher to advance successive batches and thereby move said stop out of the path of the batch, and means controlled by said stop for starting the delivery of sheets onto said table when a batch of sheets has passed said stop.

2,641,975
CONCRETE FLOOR COMPACTOR
Carl A. Cletus and Olof G. Anderson, San Diego, Calif.
Application June 4, 1951, Serial No. 229,808
5 Claims. (Cl. 94—49)

1. In a concrete floor compactor of the class described, the combination of a frame, a plurality of feet connected to said frame, an intermediate foot, a pair of connecting rods pivoted thereto, a crank shaft on said frame with which the opposite end of said connecting rods are journaled and means for rotating said crank shaft, whereby said second mentioned foot at its lowermost position is considerably below the lower surfaces of said first mentioned feet, a roller for laterally actuating said second mentioned foot and positioned between said second mentioned foot and said crank shaft, a flat member secured to said second mentioned foot and rotatably supporting said roller, a plate suspended from said frame in a plane transverse to said crank shaft and parallel to said flat member, roller guides connected to said plate, said roller having bearing contact with said roller guides for moving



said roller laterally of the axis of said crank shaft with each up and down movement of said roller occasioned by rotation of said crank shaft and reciprocation of said connecting rods, said roller guides having portions directed laterally of the axis of said crank shaft, a roller diverter pivoted intermediate said guides arranged to alternately direct said roller laterally of the axis of said crank shaft during up and down movement of said roller relatively thereto and spring means to return said diverter to starting position.

2,641,976
PHOTOGRAPHIC COLOR RECORDING MACHINE
James W. Bryce, deceased, late of Glen Ridge, N. J., by Elizabeth Snow Bryce, Glen Ridge, N. J., and The National Newark and Essex Banking Company of Newark, Newark, N. J., executors, and Robert T. Blakely, Amityville, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 13, 1949, Serial No. 110,197
10 Claims. (Cl. 95—4.5)



1. In a machine for the photographic reproduction of records in different colors, a record reading device for reading character designations and color selection indicia in a statistical record, a character member having transilluminatible characters thereon corresponding to character designations on a record to be reproduced, a character transilluminating station, means controlled by said reading device for moving the characters on said member through said station, means under control of a character designation in a record in said record reading device for transilluminating a character at said station, a color sensitive film, means controlled by a record in said reading device for advancing said film

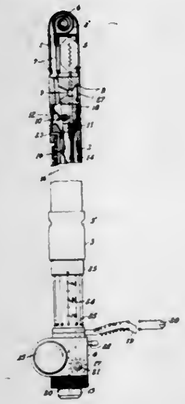
through an exposure station, means associated with said character transilluminating station for producing a light beam whose rays are of a predominantly different wave length than those of said first named transilluminating means, and means under control of a color selection indicia of a record in said reading device for selecting said light beam producing means to expose said film at said exposure station to character transilluminating rays produced by said light beam producing means, thereby producing in said film a record reproduction in different colors.

2,641,977

CAMERA FOR TAKING PHOTOGRAPHS OF INNER WALL OF CAVITY OF HUMAN OR ANIMAL BODIES

Tatsuro Uji, Ohmiya, Saitama Prefecture, Mutsuo Sugiura, Setagaya, Tokyo, and Masaharu Fukami, Shibuya, Tokyo, Japan, assignors to Olympus Optical Co., Ltd., Tokyo, Japan

Application June 4, 1951, Serial No. 229,682
In Japan June 27, 1950
1 Claim. (Cl. 95—11)



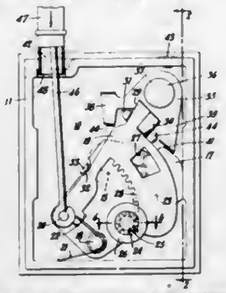
A camera for taking photographs of cavities of the body, which comprises a flexible tube, a tubular bulb pivotally connected to the top end of said flexible tube and normally held at the axial position by a tension string against the bias of a spring to tilt said bulb in one direction, a sleeve fixed to the lower end of said flexible tube serving as an operating head, an electric light source and a reel of film enclosed in said bulb, a lens secured in position opposite to the path of the film in said bulb, a film take-up means mounted on said sleeve, a tension strip extending through said flexible tube and connected to one end of the film, a time switch secured in said sleeve and connected in the circuit of said electric light source and the electric supply source, and a knob threaded in said sleeve having said tension string connected thereto for tilting said bulb, characterized in that the film wound around the reel in said bulb is pulled out linearly and successively before said lens and the time switch is operated with a definite time interval to close and open the circuit of the electric light source, whereby a number of photographs of various parts of body cavities are taken without a special shutter device.

2,641,978

CAMERA SHUTTER MECHANISM WITH SYNCHRONIZER

William L. Lawson, Forest Hills, N. Y., assignor to Whitehouse Products, Inc., Brooklyn, N. Y., a corporation of New York

Application March 11, 1948, Serial No. 14,301
4 Claims. (Cl. 95—11.5)



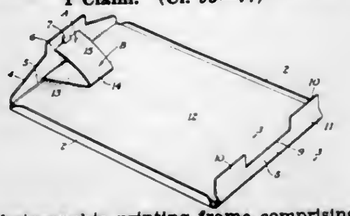
1. In a camera shutter mechanism, a housing having an exposure opening therein, a blade pivotally mounted in the housing and having an aperture that registers with said opening when the blade is rotated from its normal position of rest, an exposure blade pivotally mounted on said first blade for making an exposure when rotated in the same direction following rotation of said first blade from its rest position, a flash switch member mounted in said housing for pivotal movement, an electric contact disposed in the path of movement of said member so as to make a sliding contact therewith upon rotation of the member, said switch member having a portion engaged by said exposure blade at the start of its rotation to make an exposure and to rotate the switch member into engagement with said contact, and said switch member having another portion engaged by one of said blades to return the member to its original position when the blades return to their rest position.

2,641,979

PHOTOGRAPHIC PRINTING FRAME

William S. Christiansen and Arthur C. Rissberger, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 25, 1950, Serial No. 175,754
1 Claim. (Cl. 95—77)



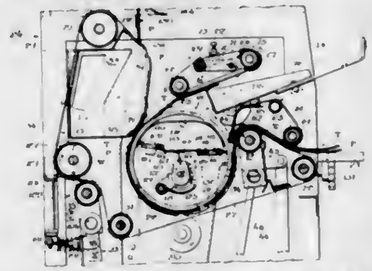
A photographic printing frame comprising, in combination, a metal frame having a rectangular opening, flanges extending upwardly from the outer edges of the frame, an inward bevel on one flange, a second flange parallel to and opposite to the inwardly beveled flange, said second flange having a latch element thereon extending inwardly therefrom, a printing panel and a platen adapted to be positioned on the flanged frame with one end of the printing panel and platen lying under the inwardly beveled flange whereby the platen may turn about the inwardly beveled flange in moving to and from the printing frame, a spring arm extending from an edge of the platen backwardly over the platen and then forwardly toward the latch element and overlying the said edge of the platen whereby the outer edge of the arm may serve as a spring latch to engage the latch element on the metal frame flange to hold the parts in an assembled relationship when the platen latch is pressed downwardly on its outer end, thereby compressing the spring arm toward the platen and engaging the latch element of the printing frame, the latch element of the platen being disengageable from the latch element of the frame by pressing that portion of the spring latch element lying backwardly over the platen to release the latching edge of the spring latch element from the latch element of the flange.

2,641,980

CYLINDRICAL PHOTOPRINTING MACHINE

Harold J. Brunk, Chicago, Ill., assignor to The C. F. Pease Company, Chicago, Ill., a corporation of Delaware

Application April 4, 1947, Serial No. 739,448
6 Claims. (Cl. 95—77.5)



1. In a machine for the reproduction of tracings or the like, the combination of a transparent cylinder providing a printing surface, means for rotatably supporting said transparent cylinder, and means for causing a print to be advanced around said transparent printing surface and thence in an upwardly direction, said means including a suction box disposed above said cylinder and provided with a substantially vertically disposed perforated wall having a convexly curved portion disposed opposite said cylinder to form a bite, a plurality of tapes disposed over said transparent printing surface and said perforated wall, means for driving said tapes to cause rotation of said transparent cylinder so that a superimposed print and tracing confined between said tapes and said printing surface will be advanced toward said suction box, said suction box being disposed so that said perforated wall contacts that side of said tapes which is opposite from the side which contacts said printing surface, and means for maintaining a negative air pressure within said suction box whereby said print will be caused to adhere to said tapes as said tapes move upwardly across said perforated wall.

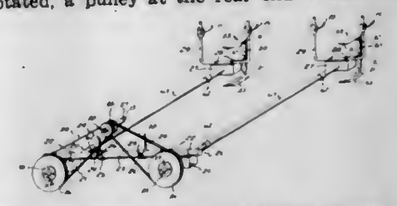
2,641,981

TRACTOR MOUNTED ROTARY CHOPPER

John F. Pilsner, Roscoe, Tex.

Application February 14, 1948, Serial No. 8,337
5 Claims. (Cl. 97—15)

1. A chopping device adapted to be mounted on and operated by means of a tractor having a forward vertically adjustable implement beam, a rear draw bar and a rear power take-off shaft and including, a pair of elongate spaced drive shafts, means for adjustably connecting the rear portion of the drive shafts with the rear draw bar of the tractor, means for adjustably connecting the forward portion of the drive shafts with the vertically adjustable implement beam of the tractor, cutter means carried by the front end of each drive shaft and spaced radially therefrom and swingable in a circle about the longitudinal axis of the drive shaft as said shaft is rotated, a pulley at the rear end of each drive



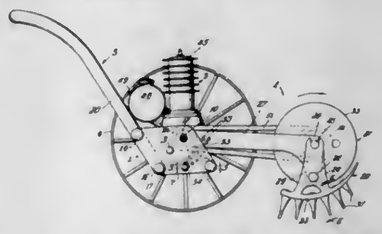
shaft, an adjustable double sheave pulley connected with the power take-off shaft of the tractor, an endless flexible belt mounted in the sheave of each drive shaft pulley and extending from said drive shaft pulley to one of the adjustable sheaves of the double sheave pulley whereby the drive shafts are rotated and driven by the tractor power take-off shaft, the adjustable double sheave pulley providing for changes in diameter of the belt groove of each of the sheaves of said double sheave pulley whereby the speed of rotation of each of the drive shafts may be controlled independently of the other.

2,641,982

EARTHWORKING MACHINE

Russell P. Harshberger, Altadena, Calif.

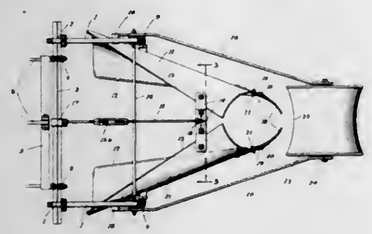
Application July 21, 1945, Serial No. 606,433
8 Claims. (Cl. 97—45)



3. A machine of the class described comprising, in combination, a carriage having support wheels, parallel radius rods pivotally mounted on said carriage for translatory movement therewith and extending forwardly thereof for vertical swinging movement, a transverse shaft extending between and mounted on the forward ends of said rods, eccentric means mounted about said shaft, power means connected to said eccentric means to energize said means for causing vibration of said shaft, support members on the forward ends of said rods disposed in offset relation to said shaft, a work tool detachably secured to the forward ends of said rods, said tool including a yoke having a horizontal cross member with working elements on the underside thereof and two upwardly extending arms attached to opposite ends of the cross member, means for securing one portion of each arm to said respective support members of said rods, and a second portion of each of said

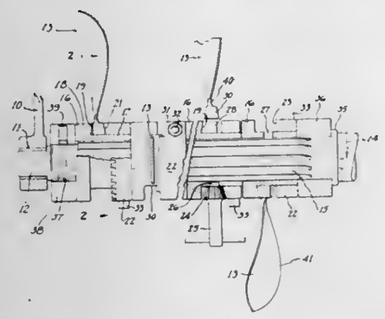
arms being adapted for abutting engagement with the underside of said shaft so that downward motion of said shaft is directly imparted to said arms and said tool.

2,641,983
RIDGER
Dennis R. Crum, Escalon, Calif.
Application June 11, 1951, Serial No. 230,975
2 Claims. (Cl. 97—56)



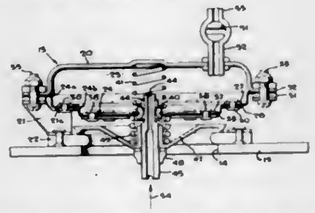
1. A ridger comprising a supporting frame which includes a pair of transversely spaced standards and a cross bar from which the standards depend, a pair of shear blades extending rearwardly from between the standards in converging relation, connecting means between the standards and the outer face of the blades adjacent the front of the latter arranged to allow of upward swinging of the blades relative to the standards, a spanner member connecting the blades at the top and adjacent the rear thereof, and a longitudinally adjustable suspension element connecting the member and cross bar and extending at an upward angle to its forward end.

2,641,984
ROTARY MOLDBOARD PLOW
Harold F. Hall, Portland, Oreg.
Application March 29, 1947, Serial No. 738,114
8 Claims. (Cl. 97—212)



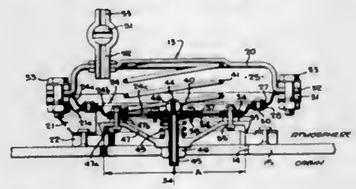
1. A rotary moldboard plow comprising a shaft, a plurality of collars on said shaft, a clamping ring on each of said collars, a plurality of cutting blades adapted for mounting on said collars, said rings being rotatable on said collars to clamp said blades thereon.

2,641,985
COMBINATION PRESSURE RELIEF, VACUUM RELIEF, AND DUMP VALVE
Raymond W. Jensen, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application November 12, 1948, Serial No. 59,465
20 Claims. (Cl. 98—1.5)



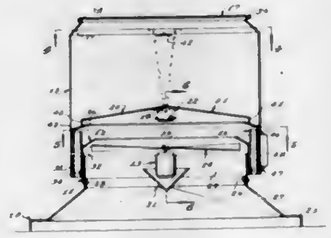
1. A positive pressure relief, negative pressure relief, and dump valve for mounting externally of a pressurized enclosure and in communication with a port in a wall thereof, comprising: a flow valve member controlling communication through the port; a closed chamber disposed in spaced relation to the flow valve member; a movable wall forming one side of the closed chamber, the flow valve member being operatively connected to the movable wall; means dividing the movable wall into an inner portion and an outer portion; stop means for arresting movement of the outer portion of the movable wall outwardly from the closed chamber, the said stop means allowing inward movement of the outer portion of the movable wall into the closed chamber; means providing restricted communication between the space in the enclosure and the space in the closed chamber; pilot valve means operated by the inner portion of the movable wall for controlling communication between the closed chamber and a zone of lower pressure; spring means normally urging the pilot valve means to a closed position; conduit means leading from the closed chamber to a zone of lower pressure; and a shut-off valve in the conduit means.

2,641,986
AUXILIARY PRESSURE RELIEF, VACUUM RELIEF, AND DUMP VALVE
Robert A. Arthur, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application December 20, 1948, Serial No. 66,155
10 Claims. (Cl. 98—1.5)



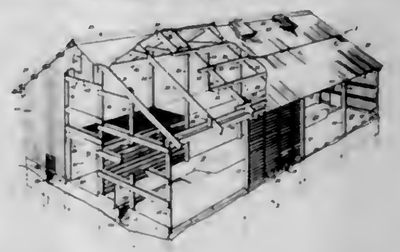
1. A relief valve for controlling communication through a port in a wall of an enclosure, comprising: a flow valve member; a seat for said valve member; a closed chamber; a movable wall forming one side of the closed chamber, said wall dividing the chamber from a zone of lower pressure, said valve member being operatively secured to said wall; means dividing the movable wall into a plurality of separately movable portions, each of said portions being independently movable to effect movement of said valve member; stop means for arresting movement outwardly from said chamber of one of said dividing means; and means providing communication between said enclosure and said chamber.

2,641,987
VENTILATOR
Joseph N. Burgan, Ambridge, Pa.
Application February 9, 1951, Serial No. 210,240
2 Claims. (Cl. 98—43)



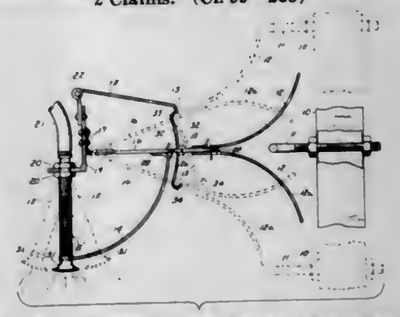
1. In a ventilator, a base, a vertical cylindrical casing open at its upper and lower ends, said casing being mounted on said base and having a sidewall rising thereabove, a motor mounted on said casing and concentrically spaced from said sidewall, said motor having a shaft extending upwardly from the motor, a fan fixed on the shaft at an upper part of said casing, an annular baffle on the upper end of said casing, said baffle including a radially inwardly and upwardly directed annular flange positioned immediately above and overlying a radially outward portion of the fan, circumferentially spaced spacers mounted on the exterior of the side wall of said casing, a vertical hollow cylindrical shield spacedly surrounding the casing and secured to said spacers, said shield being open at its lower and upper ends, said shield rising above said annular baffle and having a sidewall, an annular gutter within and secured to the side wall of said shield, said gutter including a radially inwardly and upwardly extending annular flange spaced above the annular flange of said baffle and overlying said spaced above said spacers, said baffle being spaced at a substantial distance below the upper end of said shield, drain means leading from said gutter to the exterior of said shield, a horizontal hinge assembly extending diametrically across the interior of the shield and secured to the shield sidewall at a level intermediate said gutter and the upper end of the shield, a pair of semi-circular damper plates having straight inner edges secured to the hinge assembly and extending from opposite sides of the hinge assembly, said damper plates having curved outer edges arranged to rest upon the annular flange of said gutter with the damper plates in radially outwardly declining closed positions in which the damper plates serve to close the shield, a stop bar secured to and extending across the interior of the shield in line with the axis of said hinge assembly, said stop bar being located above said gutter and on a level below the upper end of said shield in a position to be engaged by the curved edges of the damper plates whereby upward opening movement of the damper plates produced by air blast from the fan is limited.

2,641,988
FARM BUILDING
Bernon G. Perkins, Kirkwood, Mo., assignor to Doane Agricultural Service, Inc., St. Louis, Mo., a corporation of Missouri
Application August 1, 1949, Serial No. 107,877
7 Claims. (Cl. 98—54)



1. A farm building comprising a concrete floor, a pole frame comprising poles set in the floor at the corners and along the sides and ends of the building and interiorly of the building defining an aisle extending from one end of the building to the other, the corner and side poles defining bays extending transversely of the building, a roof supported by the poles provided with openings, an air distribution tunnel extending through the aisle, said tunnel comprising side sections extending at the sides of the aisle from pole to pole resting on the floor and held in place between the sides of the poles and retainers fixed in the floor, and top sections loosely resting on the upper edges of the side sections, each top section being of open-construction and provided with a closure panel on its bottom, the closure panels for at least some of the top sections being removable from inside the tunnel, each tunnel side section extending the full width of each bay and each tunnel top section extending a fraction of the width of each bay.

2,641,989
SALT SPRAY
Frank Arthur Whitney, Holt, Mich.
Application September 5, 1952, Serial No. 308,134
2 Claims. (Cl. 99—235)



1. In combination with a forage baler having a tamping bar, a fluid spraying device comprising a nozzle, a flexible tube, an angle iron bracket, a radial bar, a hinged finger assembly, the said finger assembly comprising a pair of diverging fingers, a roller, a hinge, and an elongated plate, the said fingers being secured by their ends to the extending end of the said elon-

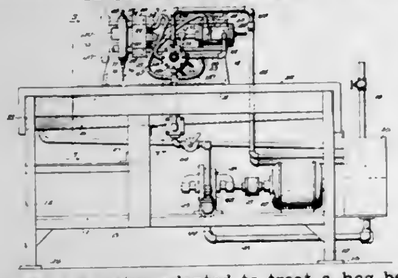
gated plate, said plate being secured to one leaf of said hinge, and the other leaf of said hinge being secured to the said angle iron bracket, the said angle iron bracket being firmly secured to a member of the baler, the said radial bar being disposed between and secured to the said nozzle and the said plate, a spring bar, the said spring bar being secured to the said bracket, the said spring bar comprising integrally a coil spring, a straight bar, a radial portion, and a pair of radial bends formed in the said radial portion thereof, the said roller being rotatably secured in an elongated hole in the said elongated plate, the said roller being contiguous with the said spring bar and moves on one surface of the said spring bar, a T-trigger, the said trigger being secured to and disposed on the tamping bar substantially in the position of the finger assembly at its neutral position, the upward and downward reciprocating movement of the said trigger with the tamping bar being disposed to engage with one of the said fingers to provide an upward and downward swinging movement of the said finger assembly, the radial movement of the said radial bar, and the swinging motion of the said nozzle.

2,641,990

AUTOMATIC APPARATUS FOR INJECTING CURING LIQUID INTO HOG BELLIES AND THE LIKE

Norman J. Allbright and Ralph W. Illsley, Chicago, Ill., assignors to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois

Application September 27, 1951, Serial No. 248,577
11 Claims. (Cl. 99—257)



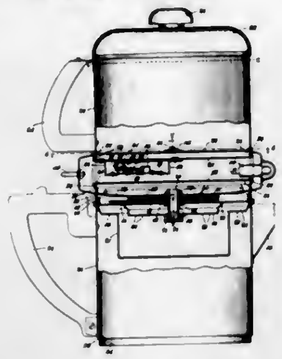
1. An apparatus adapted to treat a hog belly or the like and comprising a frame structure provided with stationary means for supporting the belly so that it is freely movable in one direction along a substantially horizontal path, a horizontal series of laterally spaced upstanding hollow needles disposed over, and transversely of, the path, having pointed lower ends, and provided with mounting means whereby they are movable downwards and upwards and also laterally back and forth lengthwise of said path, mechanism operative automatically in connection with actuation of the apparatus to control the needles so that they repeatedly go through a cycle of operation consisting of first moving downwards until the belly is impaled on said pointed lower ends, then moving laterally a small distance in one direction along the path and causing the impaled belly positively to move with them, then moving upwards so as to withdraw their said pointed lower ends from said belly, and then moving laterally in the opposite direction to their starting or original position, and means operative automatically each time the needles are moved downwards into the belly to force curing liquid under pressure through the needles and into said belly.

2,641,991

AUTOMATIC WATER-CONTROLLED ELECTRIC DRIP COFFEE MAKER

Albert C. Wilcox, Chicago, Ill.

Application December 2, 1949, Serial No. 130,676
5 Claims. (Cl. 99—281)



1. An electric drip coffee maker comprising a lower coffee beverage container, a perforate coffee basket mounted at the top of said lower container, a perforate spreader plate located in the upper portion of the coffee basket, a heating compartment at the top of the coffee basket and spaced above the spreader plate, a heating unit in the heating compartment, a water heating shell located directly above the heating compartment, an entirely enclosed housing within the water heating shell, a circuit to the heating unit, a normally closed bi-metal switch in the circuit and located in said housing, an overflow tube located through the bottom of the water heating shell and extending down through the heating compartment to the spreader plate, an upper cold water container located above the water heating shell, and a bleeder port in the bottom of the upper container for continuously discharging cold water from the upper container into the water heating shell and around the housing in which the bi-metal switch is located, whereby the bi-metal will be cooled by the cold water and the switch will remain closed while the water is being discharged from the upper container.

2,641,992

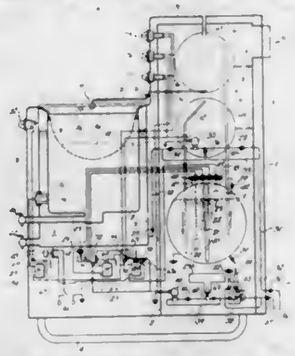
MEANS FOR BREWING BEVERAGES AND THE LIKE

Edwin S. Clemens, New Orleans, La.

Application June 25, 1949, Serial No. 101,328
13 Claims. (Cl. 99—282)

1. Apparatus for brewing by passage of liquid when heated through a body of brewing material for infusion therein comprising: means for positioning a container adapted to receive said liquid after passage through said material, a boiler in which said liquid may be heated preparatory to passage through said material, a heater for said boiler, means for delivering said liquid when heated from said boiler to said container, and control means for controlling the heating of said liquid in said boiler and the passage of a predetermined quantity of said liquid from said boiler to said container comprising, in combination, a first electrode in said boiler at a predetermined low level and a first relay in circuit therewith and with said boiler through said liquid when above said low level, connections between said

first relay and said heater for energizing the latter when said first relay is energized and deenergizing said heater when said relay is deenergized, a second electrode in said boiler at a predetermined maximum level and a second relay in circuit therewith and said boiler through said liquid when at said maximum level, means for limiting the liquid in said boiler to said predetermined



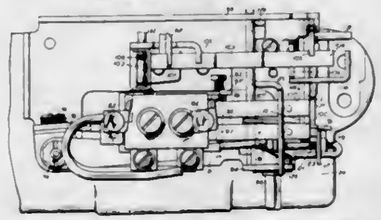
maximum level when said second relay is energized, means for energizing said relays through the indicated circuits when said liquid is at the respective levels including a control connection from said second to said first relay preventing initial energization of said first relay until said second relay has first been energized, whereby said heater may be energized initially only when said liquid is at said maximum level.

2,641,993

ELECTRIC TOASTER

Donal William Morphy, Chislehurst, and William Morris Russell, Slough, England, assignors to Morphy-Richards Limited, St. Mary Cray, England, a company of Great Britain

Application December 5, 1949, Serial No. 131,226
In Great Britain December 7, 1948
10 Claims. (Cl. 99—329)



1. An electric toaster comprising at least two supports mutually spaced to provide a toasting space between them, electric toasting elements carried by the supports, a bread carrier disposed within said space, a loading spring biassing the carrier from a toasting position towards a delivery position, a main switch controlling the continuity of the toaster circuit which includes said toasting elements, means whereby said main switch is closed by the cocking of said spring, a latch, means operatively connected to the spring and engaged by the latch to retain the spring in its cocked condition, an auxiliary switch controlling the continuity of said toaster circuit, a subsidiary heating element, a temperature-responsive device associated with the subsidiary heating element, a subsidiary switch controlling the energisation of the subsidiary element, a latch-control member actuated by said temperature-responsive device and operatively connected to the latch, subsidiary switch and auxiliary switch, cocking of said spring thus closing the main switch and engaging said latch whereupon the temperature-responsive device, after a predetermined response, operates the subsidiary switch to deenergise the subsidiary heating element, the temperature-responsive device, on cooling, returning to an automatic tripping position wherein it trips the latch so that the spring moves the carrier to the delivery position and opens the main switch, a manually operable tripping device associated with the latch, and locking means cooperating with the latch-control member, manual tripping of the latch causing said locking means to engage and lock the latch-control member in a position in which it retains the auxiliary switch open until the temperature-responsive device, on its return to the automatic tripping position, engages and moves the locking means out of engagement with the control member.

2,641,994

COMBINED HANDLE AND SUPPORT

Homer H. Miller, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

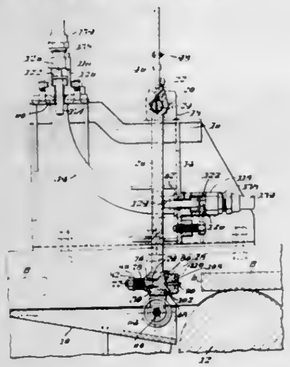
Application February 11, 1950, Serial No. 143,729
1 Claim. (Cl. 99—340)



In an electrical appliance of the type including a stationary base section and a cover section having a hinged connection therewith, a combined handle and support attached to an outer edge of said cover remote from the hinged connection to said base section, said handle comprising a body portion of a heat insulating material, a metal bracket for mounting said body portion to said cover and attached to said body portion by means of barbed tongues extending into slots in said body portion, a support portion having pivotal connection means with said body portion for rotation about an axis parallel to the axis of rotation of said cover with respect to said base section and remote from said mounting bracket, means limiting rotation of said support portion with respect to said body portion to a range between a retracted position parallel to the plane of said cover and an extended position perpendicular to the plane of said cover, the pivotal connection means for said support portion with respect to said body portion including hinge buttons on one of said portions which extend into slotted depressions on the other of said portions, said slotted depressions being closed at one end and open at the opposite end to facilitate assembly of said support portions, shoulders on said body portion adjacent said pivotal connection means, L-shaped barbs assembled in slots in said support portion for respectively engaging said shoulders on said body portion for preventing disengagement of said hinge buttons and said slotted depressions when said support portion is parallel to the plane of said cover, a bevelled surface on the hinged end of said support portion, a depression in said body portion for receiving said hinged end of said support portion and including a bevelled surface

to cooperate with said bevelled surface on said support member, said pivotal connection means providing an appreciable lost motion displacement between said body portion and said support portion to allow close engagement of said bevelled surfaces when said support portion is in the extended position to prevent collapse of said support portion into the retracted position when said cover is being supported thereby.

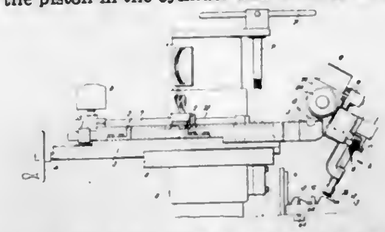
2,641,995
BILLET MARKER
James E. Whittaker, Superior, Wis., assignor to United States Steel Corporation, a corporation of New Jersey
Original application February 28, 1946, Serial No. 650,924, now Patent No. 2,541,800, dated February 13, 1951. Divided and this application June 29, 1950, Serial No. 171,116
5 Claims. (Cl. 101—4)



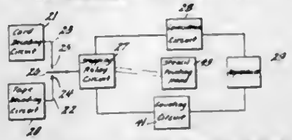
1. A billet marking apparatus comprising a standard adapted to be supported on a run-out table, a horizontal shank supported on said standard, a hammer lever journaled on said shank, means releasably retaining said lever on said shank, arcuate guide means supported on said standard and guiding the path of said lever and having an opening through which said lever may be withdrawn on release of said retaining means, die holding means mounted for universal movement adjacent the free end of said lever, a die removably fixed in said die holding means and adapted to be struck sharply by the leading end of each billet traveling on the run-out table and thus to mark billet ends, and a roller mounted on the free end of said lever beyond said die holding means and having its circumference extending beyond the free end of said lever for riding over a billet passing beneath the lever.

2,641,996
EMBOSSING MACHINE FOR STAMPING NUMBERS ON SLABS OR THE LIKE
Neil Herz Turner and Llewellyn North Lloyd, Scunthrope, England; said Turner assignor to said Lloyd
Application August 6, 1947, Serial No. 766,568
In Great Britain April 18, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 18, 1966
8 Claims. (Cl. 101—4)

1. In a number stamping machine for marking workpieces, a stamping head comprising a cylinder, a hammer piston slidable within said cylinder, a piston rod secured to said piston, relatively adjustable marking elements supported on the free end of said piston rod, the said cylinder including upper and lower ports communicating with cylinder spaces above the uppermost and below the lowermost operating positions of the piston respectively, conduit means communicating with said ports in the cylinder above and below said piston, support and control means supporting the stamping head, the said support and control means comprising a rotatable shaft mounted perpendicularly to the axis of the piston movement, electric drive means for rotating said shaft, electric switch means connected in circuit with said drive means for controlling the operation of the same, said shaft including channels and ports connecting said conduit means with or disconnecting the same from a source of fluid under pressure, the connection and disconnection of the conduit means being controlled by the rotational position of said shaft and the position of the piston in the cylinder and causing the piston and with it the marking elements to be lowered into a stamping position in which the marking elements are in juxtaposition to the workpiece to be marked or to be raised into a rest position in which latter position the marking elements are clear of a workpiece to be stamped in response to a rotation of said shaft, an electrically controlled number changing mechanism adapted to coact with said marking elements for changing the setting of the latter, said number changing mechanism being mounted on the machine separately from said marking elements and positioned perpendicularly adjacent to the position occupied by the marking elements when the piston is in its rest position, means for moving the number changing mechanism into engagement with the marking elements when the piston is in the said rest position, and electric control means connected in circuit with said number changing mechanism for actuating the same for a setting operation when the piston is in the said rest position.

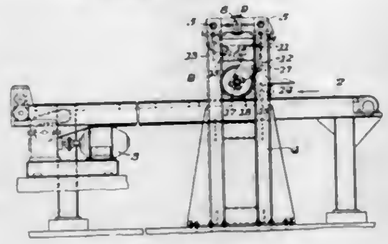


2,641,997
CONTROL CIRCUIT FOR CONTINUOUSLY OPERATING ELECTROPHOTOGRAPHIC PRINTERS
Louis B. Butterfield, Plainfield, and John H. Sulzer, Union Beach, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 21, 1950, Serial No. 186,008
19 Claims. (Cl. 101—93)



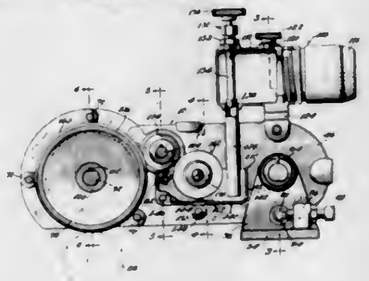
6. An automatic control circuit for a copy reproducer wherein each copy is printed with predetermined characters under the control of record means comprising a sensing means responsive to indicia on the record means, a plurality of stepping switches, means electrically interconnecting the sensing means with each of the stepping switches for sequentially stepping each of the switches to a predetermined position, electrical means controlled by the stepping switches to start the copy reproducer when the switches are stepped to the predetermined position, and character means moved into printing position simultaneously with the stepping of the switches for printing said predetermined characters on each copy made by the reproducer.

2,641,998
BRANDING SHEET
William P. Donald, Cleveland, Ohio, assignor to Wean Equipment Corporation, Euclid, Ohio, a corporation of Ohio
Application March 22, 1950, Serial No. 151,184
4 Claims. (Cl. 101—235)



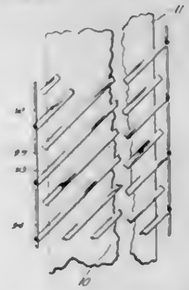
1. A sheet brander comprising means along which sheets are advanced, said means having a surface over which sheets being advanced are adapted to be disposed which is relatively light absorbing, a light shining on said surface, a turnable branding device and means including light sensitive means receiving light reflected from a sheet disposed over said surface turning the branding device to brand the sheet.

2,641,999
MARKING APPARATUS
John K. Jackson, Westfield, N. J., assignor, by mesne assignments, to Adolph Gottscho, Inc., Hillside, N. J., a corporation of New York
Application June 21, 1950, Serial No. 169,369
5 Claims. (Cl. 101—350)



1. An ink supplying device for a printing roller journalled in a frame and having an impression element thereon for printing engagement with a continuous web; said ink supplying device comprising a metering roller journalled for rotation about an axis substantially parallel to the axis of said printing roller, eccentric means supporting said metering roller on said frame at its opposite ends and adjustable to vary the contact between said printing and metering rollers, a sealed ink containing reservoir on said frame, a transfer pipe depending from said reservoir, an open ink fountain disposed below said reservoir and into which said transfer pipe extends to thereby provide a supply of ink in said fountain maintained at a level at least as high as the lower end of said pipe, an ink roller journalled on said ink fountain with its axis below that of said metering roller and arranged for surface contact with said metering roller and dipping into the supply of ink in said fountain, and means supporting said ink fountain on said frame and adjustable to displace said fountain substantially vertically for varying the distance between the axes of said metering and ink rollers and the position of said lower end of the transfer pipe with respect to said fountain.

2,642,000
INK DRYING EQUIPMENT FOR WEB PRINTING MACHINES
William C. Wieking, Woodhaven, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application November 29, 1944, Serial No. 565,758
1 Claim. (Cl. 101—416)

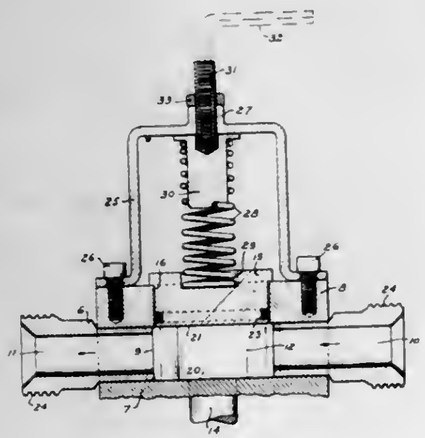


In an ink drying equipment for a printing machine, a source of high frequency electrical energy having two external conductors, two sets of closely spaced pairs of electrodes mounted in parallelism and with one electrode on each side of a path through which sheets are led from printing cylinders of the machine, the said electrodes being mounted diagonally with respect to the said path, the two electrodes of each pair being connected together and the electrode pairs of each set being electrically connected together, the pairs of electrodes alternating in sequence so that pairs of electrodes of each set are interposed between pairs of electrodes of the other set, and a connection from one of the said conductors to one set of electrode pairs and a connection from the other conductor to the second set of electrode pairs.

2,642,001
PUMP BY-PASSING ASSEMBLAGE
Vernon F. Dale and George W. Reed, Onalaska, Wis., assignors to The Bump Pump Co., La Crosse, Wis., a corporation of Wisconsin
Application January 25, 1950, Serial No. 140,466
2 Claims. (Cl. 103—42)

1. In a rotary pump, a casing having a mid-section and opposed end sections secured thereto,

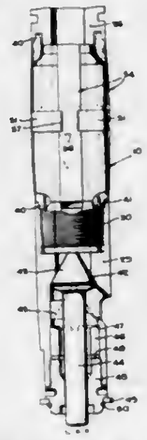
said mid-section being provided with adjoining parallel bores communicating at the opposite sides of their junction with liquid inlet and outlet conduits and both of said end sections having plane parallel surfaces enclosing the opposite ends of said mid-section bores, one of said end sections being provided with a bore disposed coaxially of said junction and having a diameter approximately equal to the distance between the axes of said mid-section bores while the other end section is provided with spaced bearings disposed coaxially of said adjoining mid-section bores, a positive displacement rotor mounted in



each of said adjoining mid-section bores and normally sealingly engaging said end section plane surfaces and each other between said inlet and outlet conduits, each of said rotors having a supporting shaft projecting from one side only and journalled in one of said bearings while its opposite side is plane and devoid of projections, a cylindrical piston member snugly slidably confined within said end section bore and having a plane inner end surface normally sealingly cooperable with said plane rotor end surfaces while its outer end surface is constantly exposed to the ambient atmosphere, and means for resiliently urging said member toward said rotors.

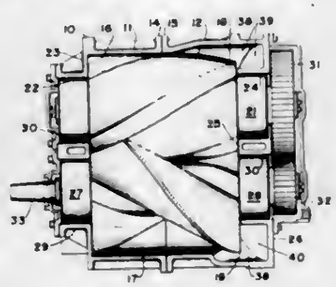
2,642,002
PLUNGER LIFT DEVICE
Donald G. Knox, Long Beach, and James W. Lawrence, Jr., Los Angeles, Calif., assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 28, 1949, Serial No. 83,850
8 Claims. (Cl. 103—52)

1. A fluid operated swab plunger for travel in a sectional eduction tubing, comprising in combination: a body member, cooperating valve parts on the body member operable to prevent flow of fluid therethrough, a plurality of longitudinal deflector bars circumferentially spaced around the body member and mounted for radial movement relative to the body member, a segmental ring mounted for radial movement on the body member and positioned between the ends of the deflector bars, resilient means on the body member acting to move the ring segments and longitudinal bars outwardly for sealing contact with the interior of the eduction tubing, the outer surface of each of the deflector bars being curved to cooperate with the ring segments to



form substantially full circle contact with the interior of the eduction tubing.

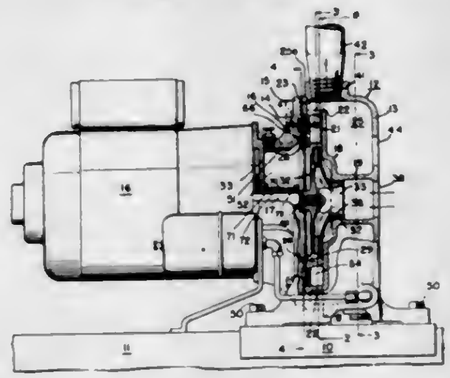
2,642,003
BLOWER INTAKE PORT
Joseph E. Whitfield, Erie, Pa., assignor to Read Standard Corporation, a corporation of Delaware
Application December 16, 1949, Serial No. 133,295
2 Claims. (Cl. 103—128)



1. In a fluid device of the character described, a housing structure including side walls and end walls defining a pair of parallel cylindrical chambers to form a common chamber, adapted to receive intermeshing spiral lobed and grooved rotors cooperating with each other and the housing structure to form fluid pockets that progress from one end of the housing to the other during rotation of said rotors, intake and outlet ports in opposite end portions of said housing, said intake port having portions thereof in both said side and end walls to expose portions of the ends and peripheral envelopes of said rotors, an intake passage provided with wall portions registering with the edges of said housing side and end walls defining said intake port, said intake passage walls extending in a laterally outward direction with respect to the plane common to the axes of said rotors, to provide for admission of fluid therethrough in a radial direction to said rotors, the peripheral extent of the port in said housing side wall being such as to expose the greater portion of the peripheral envelope of the intermeshed rotors, and the wall portions of said intake passage that register with the longitudinally extending port edges in said

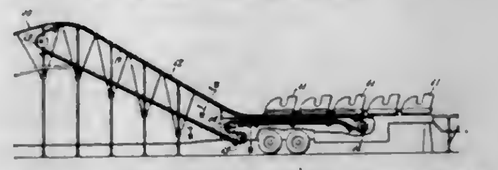
housing side wall sloping progressively away from the peripheral envelope of the intermeshed rotors from the last named port edges toward the inlet end of said intake passage, to provide at the inner end of said intake passage between said sloping wall portions and the peripheral envelope of said intermeshed rotors a pair of branching tapered passages for radial admission of fluid to the rotor pockets in a generally tangential direction, the wall portion of said intake passage that registers with the port edges in said housing end wall being offset in an axial direction with respect to the ends of said intermeshed rotors, and a deflector in said intake passage having a pair of diverging sides disposed respectively to direct radially admitted fluid to said respective branching tapered passages, said deflector being wholly in that portion of said passage radially outward of said intermeshed rotors.

2,642,004
CENTRIFUGAL PUMP
Charles J. Bergh, Vandalia, Ohio, assignor to The Dayton Pump & Mfg. Co., Dayton, Ohio, a corporation of Ohio
Application December 21, 1950, Serial No. 202,106
4 Claims. (Cl. 103—103)



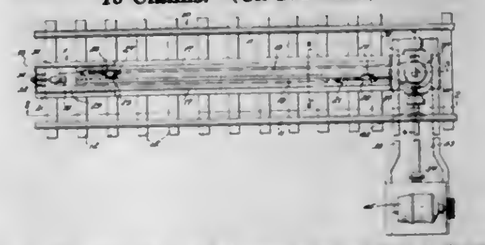
1. An impeller pump, comprising, a hollow pump body of generally tubular shape and having a closure wall at one end thereof transverse of the axis of the pump body, a second wall interiorly of said body having a first portion generally transverse of the axis of said body and a second portion generally axial of the axis of said body and connecting with said body and forming a pumping chamber within said body open at one side thereof, a discharge opening at the top of said pump body, said second portion also having a discharge opening in alignment with said first mentioned discharge opening to permit fluid flow therebetween, a volute member having a first wall portion lying in a plane disposed radially of the axis of the member and a second volute wall portion around the axis of the member and perpendicular to said frame, said volute member being removably positioned in said pumping chamber with the radial wall thereof engaging said pumping chamber wall to axially position the volute member in the pumping chamber and with the second volute wall portion engaging the pumping chamber wall to form therewith a volute chamber within said pumping chamber of smaller cross-sectional area than said pumping chamber, an impeller within said volute chamber, and a closure wall on said body enclosing said volute member within said pumping chamber.

2,642,005
DRIVE SYSTEM FOR ROLLER COASTERS
Charles L. Cooper, Los Angeles, Calif.
Application January 8, 1951, Serial No. 204,943
2 Claims. (Cl. 104—63)



2. In an amusement ride system comprising an endless track with cars thereon, said track having a loading section on which the cars are stopped, an ascending section leading from the loading section, and a coasting section extending from the top of the ascending section back to the loading section over which the cars are propelled by gravity; braking means for stopping and holding cars on said loading section; a drive chain and means supporting a portion thereof parallel to and in close proximity to said station and ascending sections of said track means for positively coupling each car to said chain against rearward movement relative to the chain while it is juxtaposed to said portion of said chain; a driving motor; and transmission means including a slippable clutch coupling said motor to said chain, whereby stoppage of a car in said loading section by said brake stops said chain by slipping said clutch, and releasing the brake and engaging the clutch accelerates said chain, and accelerates the car engaged thereby out of said loading section and up said ascending section of track.

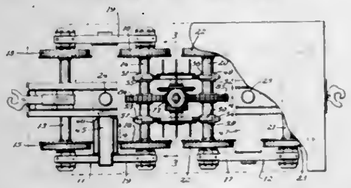
2,642,006
TRACK POSITIONED CAR-FEEDING MECHANISM
Glenn W. Merritt and Clarence L. Muntz, Bowerston, Ohio
Application March 26, 1949, Serial No. 83,582
13 Claims. (Cl. 104—172)



1. Car-moving mechanism comprising a frame adapted to be positioned on a trackway between the rails thereof, one end of said frame being formed with a lateral extension projecting to one side of said trackway beneath one of the rails thereof, longitudinally extending chain guides carried by said frame, a drive sprocket rotatably supported at the end of said frame provided with said extension an idler guide supported at the other end of the frame, car-engaging and propelling detents slidably mounted in said guides, a chain passing around said sprocket and idler guide and having its opposite runs disposed in a horizontal plane for movement in said longitudinal guides, said chain being connected with said detents, the detents being pivotally mounted on the chain to operate in one direction only to engage a car and to tilt when moved in the opposite direction to pass a car, a reversible electric motor supported by the lateral extension of

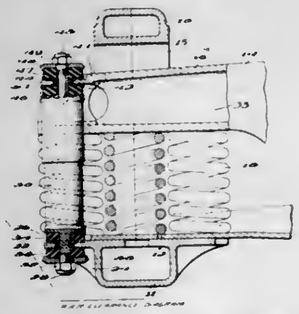
said frame at one side of said trackway, and motion-transmitting means driven by said motor and carried by said frame extension for imparting rotary movement to said sprocket first in one direction and then in the other.

2,642,007
CRANE PROPELLED DRIVE
Robert P. Fox, Duluth, Minn., assignor to Clyde Iron Works, Inc., Duluth, Minn., a corporation of Minnesota
Application August 21, 1950, Serial No. 180,573
15 Claims. (Cl. 105—108)



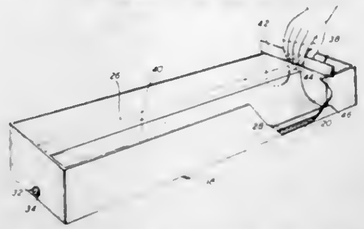
1. A crane propelling drive for use in conjunction with cranes mounted upon a platform supported by a pair of railway trucks each having a drive axle, the drive including a drive shaft extending substantially vertically between the trucks, a drive pinion mounted on a generally horizontal axis between the trucks, means connecting the drive shaft to the drive pinion to rotate said drive shaft and drive pinion in unison, means supporting the drive pinion upon the drive axles of the trucks, and gear means on the drive axles in mesh with said drive pinion.

2,642,008
RAILWAY TRUCK SHOCK ABSORBER MOUNTING
James C. Settles and Loree Elwyn Furniss, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio
Application February 13, 1948, Serial No. 8,024
9 Claims. (Cl. 105—197)



1. In a four-wheel railway car truck for freight service, a side frame of the truss-type having a bolster opening including a compression member and a spring seat box-shaped in cross section, a bracket plate positioned outboard of the box-shaped spring seat, two generally triangular shaped ribs spaced longitudinally of the side frame projecting at right angles from the outboard wall of the box-shaped spring seat and formed integral therewith, said ribs at their upper ends integrally joining said bracket plate and defining the ends of the bracket plate, a bolster having a portion extending through the bolster opening in the side frame, a top wall and a bottom wall on the bolster, a centrally disposed vertical web joining the top and bottom walls of the bolster, a plurality of coil springs supporting the bolster on said spring seat with at least two of the springs at the outboard side of the frame spaced from each other longitudinally of the side frame, said bracket plate having an opening therein in alignment with a center line of the bolster and intermediate the axis of the spaced springs at the outboard side of the side frame, an elongated cylindrical shaped hydraulic shock absorber, a stem carried by the lower end of the shock absorber extending downwardly through the opening in said bracket plate, means including resilient washers securing said stem to the bracket plate, an extension integral with the top wall of the bolster, vertically disposed ribs integral with the ends of said extension and integral with the top and bottom walls of the bolster and spaced from opposite side of said web, said extension having a slot therein extending to the outboard end of the extension and positioned in a vertical plane defined by the axis of the opening in the bracket plate and in alignment with said web, a stem carried by the upper end of said hydraulic shock absorber extending through said slot, means including resilient washers for securing the stem at the upper end of the shock absorber to said extension, and a metal bushing between the resilient washers at the upper end of the shock absorber engaging the extension within said slot.

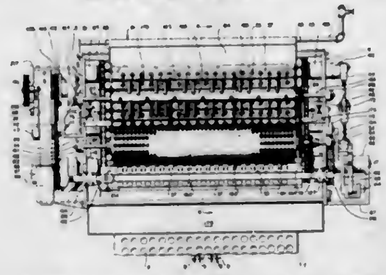
2,642,009
MEANS FOR MAKING ICE CREAM
Michael A. Orfitelli, Manchester, Conn.
Application October 5, 1949, Serial No. 119,585
1 Claim. (Cl. 107—1)



A mold for making simultaneously a plurality of blocks of ice cream each comprising a plurality of adjoining arcuate layers of different flavors of ice cream, said mold comprising an elongated pan having a bottom, side walls and ends perpendicular thereto, a partition extending upward from said bottom and engaging said side walls and ends, said partition being shaped to form a plurality of adjacent arcuate walls cooperating with the sides and ends of said pan to define a plurality of molding compartments and also cooperating with the bottom of said mold to define a coolant compartment, said partition having a longitudinally and centrally disposed bent portion forming a guide rib, and a substantially flat scraper blade provided with an upwardly directed slot cooperable with said rib to aid in guiding said scraper blade, said scraper blade having arcuate edges extending into said molding compartments complementary to the arcuate walls of said partition and having straight edges adjacent said side walls, said arcuate edges of said scraper blade being spaced

a predetermined distance from said arcuate walls, whereby when said scraper is moved longitudinally within said molding compartments it will form a layer of ice cream having a desired thickness within said molding compartments.

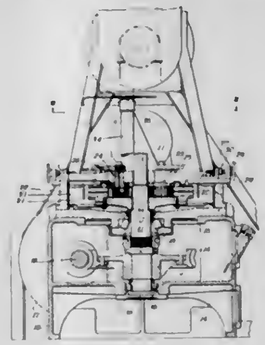
2,642,010
DEVICE FOR DEPOSITING CENTERS IN CANDY PIECES
Clyde R. Zimmer, Chicago, Ill., assignor to E. J. Brach & Sons, Chicago, Ill., a corporation of Illinois
Application October 20, 1950, Serial No. 191,244
11 Claims. (Cl. 107—1)



1. A machine for simultaneously depositing in a continuous manner a plurality of centers for candy pieces into a plurality of candy mold cavities provided in a continuously passing candy mold comprising a hopper for carrying a mass of said centers, center-receiving means disposed in supporting relationship to said mass of centers in the hopper, means for intermittently moving said center-receiving means through said hopper in an upwardly inclined direction, said center-receiving means being endless and being provided with a plurality of recesses for the reception of centers in said recesses during movement through the hopper, means carried upon said center-receiving means for obstructing egress of said centers from the recesses, said obstructing means being movable to and from obstructing position, means adjacent the path of travel of said center-receiving means for moving the obstructing means to obstructing position, means for inverting said center-receiving means after said recesses are closed, means for substantially aligning said recesses in inverted position with respective mold cavities provided in a mold continuously moving beneath said inverted center-receiving means, and means adjacent the path of travel of the inverted center-receiving means for removing the obstruction from said recesses while the recesses and cavities are in substantial alignment and while said center-receiving means moves to deposit centers from the recesses into the cavities.

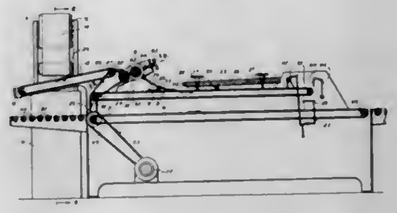
2,642,011
EXTRUSION MACHINE FOR MOLDING PELLETS AND THE LIKE FROM PLASTIC SUBSTANCES
Albert William Sizer, Hessle, England
Application February 8, 1951, Serial No. 209,988
In Great Britain January 3, 1951
3 Claims. (Cl. 107—8)

1. A moulding machine for plastic substances including in combination a stationary frame, a vertical driving shaft mounted in bearings in said frame, a horizontal radially ported die ring on said shaft, a cross-head fixedly mounted on said frame, a moulding roller disposed within said die ring, a rotatable eccentric support for said moulding roller mounted on the cross-head,



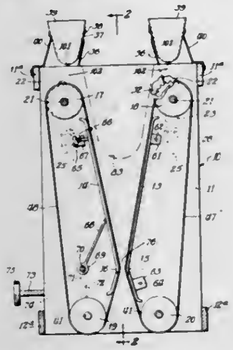
a toothed quadrant on said support, and a rotatable worm mounted on said cross-head and in engagement with said toothed quadrant.

2,642,012
DOUGH SHEETING DEVICE FOR TRANSVERSE SHEETING
Merlin A. Stickelber, Kansas City, Mo., assignor to Stickelber & Sons, Inc., a corporation of Missouri
Application October 25, 1947, Serial No. 782,142
3 Claims. (Cl. 107—9)



1. In a bread moulding machine, sheeting means, means for curling pieces of sheeted dough on themselves, comprising a conveyor belt, means for conveying said sheeted pieces of dough transversely of their path through said sheeting means, sheeted dough piece feeding means receiving said sheeted dough pieces onto the same from said sheeting means and conveying the same lengthwise of their path through said sheeting means, said feeding means depositing said sheeted dough pieces onto said conveying means crosswise thereof, and sizing means between said conveying means and said conveyor belt for sheeting said pieces of dough transversely of the first sheeting thereof and directing said pieces of dough on a defined path into said curling means, comprising a pair of relatively adjustable sheeting rollers, one of said rollers mounted in spaced relation above said conveyor belt being flanged and the other of said rollers fitting between the flanges of said flanged roller to define a dough passage therebetween having its side margins fixed relative to the longitudinal marginal edges of said conveyor belt.

2,642,013
MEANS FOR CONTINUOUS SHAPING, FEEDING, AND SHEETING OF DOUGH
Duard W. Enoch, Kansas City, Mo., assignor to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware
Application May 28, 1948, Serial No. 29,874
12 Claims. (Cl. 107—12)



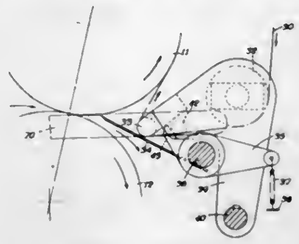
1. Means for continuously feeding and sheeting dough comprising, a hopper having a pair of parallel side walls and another pair of walls shaped on the principle of a Venturi tube, and endless band means moving with the dough along the last mentioned walls for moving dough through said hopper, said band means being as wide as said last mentioned walls.

2,642,014
SHEETING MACHINE FOR DOUGH
Edward Milner Crosland, Culcheth, near Warrington, and Joseph Francis Naylor, Newton-le-Willows, England, assignors to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application February 13, 1948, Serial No. 8,223
In Great Britain November 28, 1938
Section 1, Public Law 690, August 8, 1946
Patent expires November 28, 1958
5 Claims. (Cl. 107—12)



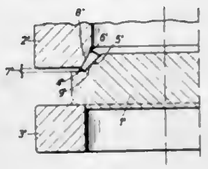
1. A dough web forming machine comprising in combination, a plurality of rollers on parallel axes grouped to present a cylindrically sided compression space therebetween, a plurality of said rollers being spaced from each other to provide a plurality of dough outlet passages from said compression space, means to feed dough to a gap between a pair of said rollers, means to constrain dough to emerge from said compression space simultaneously in two separate webs, and scraper blades simultaneously engaging the surfaces of at least two of the said rollers on the sides of at least two of said dough outlet passages from said compression space.

2,642,015
DOUGH BREAK
Joseph Francis Naylor, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application October 30, 1951, Serial No. 253,818
In Great Britain November 6, 1950
2 Claims. (Cl. 107—12)



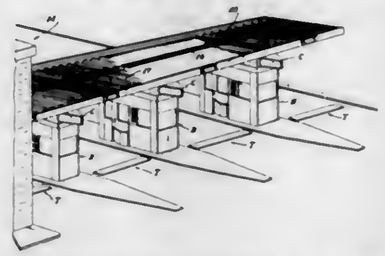
1. A dough break including, in combination, dough feed means, a first squeeze roller, a second squeeze roller adjacent thereto forming a bight, a gate member mounted on the exit side of the bight between said squeeze rollers, means to move said gate into engagement with one or the other of said rollers, and a conveyor belt having a run disposed around part of one of said rollers, said run entering the bight region on the exit side thereof defining passages between said conveyor and either roller.

2,642,016
DIE-HEAD GASKET FOR SPAGHETTI EXTRUSION PRESSES
Emil Thalmann, Kobel, Uzwil, Switzerland, assignor to Gebruder Buhler, Uzwil, Switzerland
Application February 21, 1951, Serial No. 212,036
In Switzerland March 28, 1950
1 Claim. (Cl. 107—14)



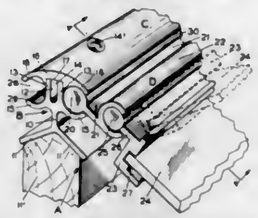
In a spaghetti extrusion press comprising an annular extrusion die having a stepped top rim which defines a first sloped face and a horizontal seat, a die mount, an annular die head subjected to the full internal pressure and having a beveled lower internal edge opposite the said beveled edge defining a second sloped face, said first and second sloped faces converging downwardly, and each forming an acute angle with the horizontal, and a resilient annular gasket seated on said first and second sloped faces, having sides sloping downwardly and outwardly, converging outwardly in cross-section so as to fit the said first and second sloping faces, said gasket extending below the first sloped face to said horizontal seat, forming a gap between said die and die head of such size less than any depth of the gasket to prevent the gasket from being blown out through the gap by the internal pressure in the head.

2,642,017
ROOF DRAINAGE SYSTEM FOR TOLL BOOTH CANOPIES
Benjamin Cooper, New York, and Murray J. Charet, Brooklyn, N. Y.; said Charet assignor to said Cooper
Application August 4, 1950, Serial No. 177,636
5 Claims. (Cl. 108—1)



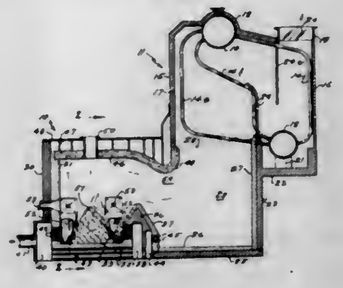
1. In combination, corrugated roof decking comprising alternate parallel crest and channel portions, said decking being inclined lengthwise of said portions, a flashing member at the lower end of said decking running longitudinally of said lower end and partially projecting beneath said end in contact with the channel portions, and a drain gutter disposed beneath said decking, said flashing extending to said drain gutter whereby water running down the channels of the decking onto the flashing, will run beneath the crest portions of the decking from the flashing to the drain gutter.

2,642,018
GREENHOUSE RIDGE ASSEMBLY
Karl William Weeber, Minneapolis, Minn.
Application February 23, 1950, Serial No. 145,875
7 Claims. (Cl. 108—16)



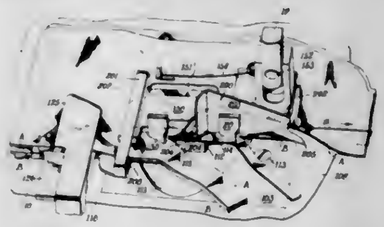
1. In a greenhouse ridge assembly consisting of a central body portion, arcuated lip portions formed on said central body portion, a ridge cap having a central portion, arcuated lip portions formed on said central portion of said ridge cap complemental to said central body lip portions, means for securing said ridge cap to said central body portion to form female hinge pin receiving cylindrical casings, the edges of said arcuated lip portions forming a slot therebetween, a sash hinge link including a central plate portion, a male rod-like portion secured to one edge of said central plate portion adapted to hingedly fit in said female cylindrical casings with said central plate portion extending through said slot formed by the edges of said arcuated lip portions, and a partial cylindrical female portion secured to the other edge of said central plate portion adapted to receive the male hinge portion of a ventilator sash member.

2,642,019
HEARTH FURNACE
Ivan E. Cushing and Gibbs M. Slaughter, Fort Worth, Tex., assignors to Acme Brick Company, Fort Worth, Tex., a corporation of Texas
Application October 30, 1950, Serial No. 192,974
3 Claims. (Cl. 110—7)



1. In a hearth furnace, a substantially rectangular floor adapted to support waste material fuel, thereon, a front wall and opposing side walls around three sides of said floor, a roof supported on said walls and positioned over said floor, said roof including fuel feed holes therethrough and arranged substantially over the center of said floor along an imaginary line extending from one said side wall to the other said side wall, a bridge wall along the side of said floor opposite said front wall, the top of said bridge wall being spaced below said roof, at least one clean-out door in each said side wall, one of said doors being arranged adjacent said front wall and the remaining said door being arranged adjacent said bridge wall.

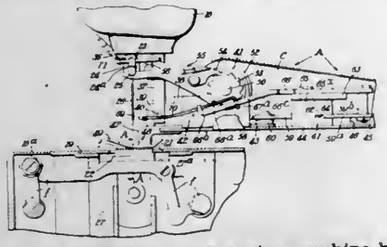
2,642,020
TRIMMING MECHANISM FOR SEWING MACHINES
Fredric W. Breul, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 25, 1950, Serial No. 140,481
11 Claims. (Cl. 112—127)



9. In a multi-ply trimming mechanism for sewing machines, a plurality of trimming devices arranged each to cut at a different distance from the line of stitch formation, a ply-deflecting member including a ply-separating finger extending between the plies, and a deflecting fin joined angularly to said ply-separating finger at a point immediately in advance of one of said trimming devices and arranged in the path of one of said separated plies.

2,642,021
SEWING MACHINE ATTACHMENT FOR BASTING

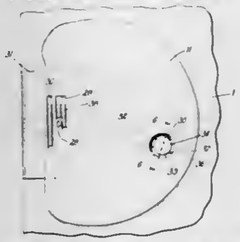
John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 22, 1949, Serial No. 117,169
21 Claims. (Cl. 112—245)



1. An attachment for a sewing machine having a presser-bar, stitch-forming mechanism including a reciprocating thread-carrying needle, and a complemental loop-taker designed to take thread loops from the needle in the formation of stitches; comprising a frame constructed and arranged to be secured to the presser-bar of the machine, a movable member carried by said frame, an elongated thread-engaging element flexible in all directions laterally of its length and carried by said member, means to move said member and element to a first position to permit the formation of a stitch, means acting a plurality of times after a stitch has been formed for shifting said member and said thread-engaging element to a second position at each upstroke of the needle for robbing the needle-thread loop to effect the skipping of stitches, and means, operative after a predetermined number of stitches have been skipped, for shifting said thread-engaging element back to its first position to permit the formation of another stitch.

2,642,022
DARNING ATTACHMENT FOR SEWING MACHINES

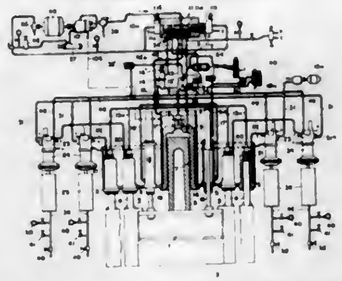
Ralph E. Johnson, Rahway, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 30, 1948, Serial No. 62,751
3 Claims. (Cl. 112—260)



1. A work-spacing device for sewing machines having a work-support provided with an aperture, and a feed-dog operating through said work-support, comprising, a plate adapted to be removably mounted upon said work-support in the region of said feed-dog, and plate securing means including an anchoring pin depending from said plate and adapted to enter said aperture in the work-support, said pin being slidable laterally in a guideway carried by said plate.

2,642,023
HYDRAULIC PRESS

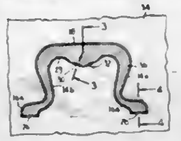
Louis Zimmerman, Newcastle-on-Tyne, England, assignor to Clearing Machine Corporation, Chicago, Ill., a corporation of Illinois
Application November 8, 1949, Serial No. 126,119
In Great Britain November 9, 1948
4 Claims. (Cl. 113—45)



3. In a hydraulic press having a clamp slide and a draw slide for performing work on a blank, a plurality of hold-down cylinders, a fluid actuated piston in each of said cylinders connected to said clamp slide for moving said clamp slide to clamping position, a fluid actuated ram for moving said draw slide to perform a drawing operation, a plurality of pull-back cylinders, a fluid actuated piston in each of said pull-back cylinders connected to said draw slide for moving both of said slides in a direction away from the blank, a source of hydraulic fluid under pressure, conduits connecting said source with said hold-down cylinders and with said pull-back cylinders, a valve in said conduits between said source and all of said cylinders, and means including said valve and conduits for charging said hold-down cylinders with hydraulic fluid discharged from said pull-back cylinders.

2,642,024
METHOD OF MAKING ANDIRON LEGS

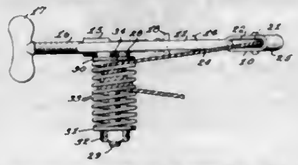
Harry Sherman, Brooklyn, N. Y., assignor to Harry Sherman and Shimen Sherman, doing business as The Sherman Tool Die and Metal Stamping Co., New York, N. Y.
Application February 11, 1950, Serial No. 143,766
2 Claims. (Cl. 113—51)



1. A method of making an andiron leg which constitutes a body having a pair of downwardly extending pedestals that terminate in feet, said method comprising forming from thick sheet metal a blank including a body section, pedestal sections and pedal sections, stamping said blank in stamping dies into an andiron leg with a continuous flange extending rearwardly from the upper edge of the body and the outer edges of the pedestals and feet and with flanges extending rearwardly from the inner edges of the pedestals and feet and the bottom edge of the body on both sides of the center of the body, the center of the bottom edge of the body having no rearwardly extending flange and the bottom edges of the feet having no rearwardly extending flanges, said blank including a set of integral tabs at the edges of the pedal sections which after stamping are the bottom edges of the feet, said blank further including another set of integral tabs on the body section at portions of the edges thereof which after stamping are the bottom edge of the body on both sides of the center thereof, said sets of tabs being formed during stamping into projections extending rearwardly in the same direction as the flanges, the distal ends of said tabs being free during stamping and said tabs dragging against the sides of the stamping die at the same time, whereby to prevent bowing of the feet and of the body during stamping, and thereafter removing said tabs.

2,642,025
CLAMP-ON ANCHOR LINE SHEAVE FOR SMALL BOATS

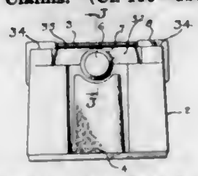
Cecil C. Swonger, St. Marys, Ohio
Application November 16, 1951, Serial No. 256,763
2 Claims. (Cl. 114—210)



2. A clamp-on sheave assembly for a small boat anchor line comprising a C-clamp adapted to clamp onto a boat gunwale and including a frame and a clamp screw, a lug projecting outwardly from said frame at one end thereof and having a longitudinal center line disposed substantially in a plane including the longitudinal center line of said frame, said lug having an opening extending therethrough along said plane, a sheave disposed in the opening in said lug and journaled in the latter for rotation about an axis substantially perpedicular to said plane, and means secured to said frame at a location spaced from said sheave and projecting laterally from said frame to receive and secure a line passing over said sheave, said means comprising a bolt secured at one end to said frame and projecting therefrom substantially perpendicularly to said plane, washers disposed on said bolt one near each end thereof, a nut threaded onto the other end of said bolt and bearing against the adjacent washer, and a coil spring surrounding said bolt between said washers with its ends supported on the corresponding washers.

2,642,026
TUNER INDICATOR AND CONTROL

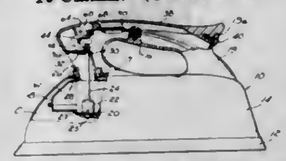
Reuben C. Carlson, River Grove, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application September 2, 1950, Serial No. 183,049
25 Claims. (Cl. 116—124.2)



1. Radio receiving apparatus comprising a frame housed within a cabinet having a slot in the top thereof, the apparatus also including a shaft adapted to be turned to control the apparatus, means in connection with the frame by which the dial is pivotally supported for rotation about the shaft between an upright position and through the slot to an inverted position within the cabinet, said dial being adapted to close said slot when in the inverted position, mechanism carried by the frame by which the dial is releasably retained in one of the positions to which it is adapted to be moved manually, and means on the frame for urging said dial to its other position when released from said one position.

2,642,027
INDICATOR FOR FLATIRON CONTROL MEANS

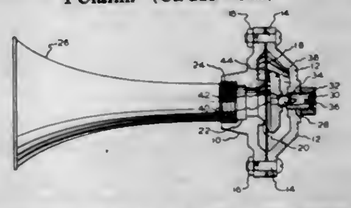
Paul J. Kircher, Plainville, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application March 13, 1951, Serial No. 215,318
10 Claims. (Cl. 116—124)



1. In a flatiron, an indicator member comprising a hollow cylinder formed of light-penetrable material provided with indicia on a peripheral portion thereof and with integral gear teeth on the peripheral portion opposite from said indicia, means forming an apertured recess for journaling the cylinder with the indicia facing the recess, actuating means for rotating the cylinder disposed on the side of the cylinder opposite from the recess and engaging said gear teeth, and a light source within the cylinder.

2,642,028
UNIVERSAL MOUNTING FOR TENSION DISK FOR AIR HORNS

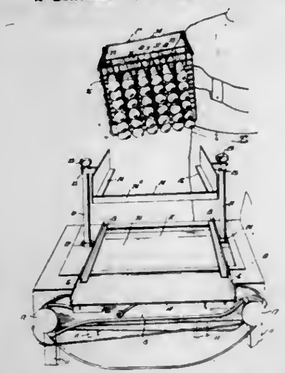
Lloyd E. Johnson, Parma, Mich., assignor to Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application March 9, 1951, Serial No. 214,798
1 Claim. (Cl. 116—142)



In combination with an air horn having a flat flexible vibrated diaphragm, peripheral supporting structure for said diaphragm including a central portion having a threaded aperture defined therein, an annular seat disposed in a plane parallel to said diaphragm and concentric with said supporting structure and said aperture and located on one side of said diaphragm and contiguous thereto, of a tension disc for said diaphragm having an annular flange, said disc being located on the opposite side of said diaphragm from said annular seat and contiguous thereto, a socket seat defined on the opposite side of said

disc from said flange and concentric therewith, an adjustment screw supported for axial movement in said aperture along an axis normal to said plane and concentric with said annular seat and having a socket seat at one end, and a ball of a size to pass through said aperture and disposed between said socket seats to define therewith a ball and socket joint and to axially and concentrically align said disc flange and annular seat, said disc floating upon said ball whereby said flange uniformly engages and tensions said diaphragm with respect to said annular seat.

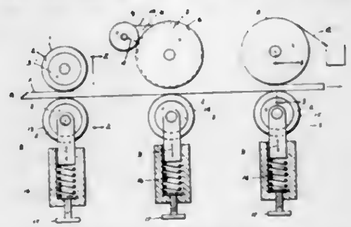
2,642,029
ICE-CREAM CONE DIPPING APPARATUS
Archie D. Campbell, Whiting, Ind.
Application February 28, 1949, Serial No. 78,824
2 Claims. (Cl. 118—30)



1. An apparatus of the class described comprising a support, a tank for a liquid coating material carried by the support, a basket carrying tray mounted upon said support for reciprocating movement toward and away from said tank, said tray having an open end, an abutment strip closing the opposite end of the tray, basket supporting flanges carried by said tray, a removable cone carrying basket adapted to be carried by said tray and slidably engaging said flanges, said basket supporting ice cream filled cones in an inverted releasable position when the basket rests upon said tray, said tray being adapted to be depressed for dipping the ice cream filled inverted end of the cones into the coating material in said tank, and said basket carrying tray being movable to an elevated position to withdraw the cones from said tank.

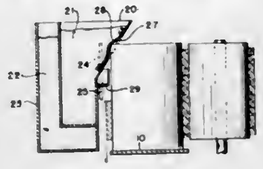
2,642,030
ROLLER COATING MACHINE FOR RIGID SHEET MATERIAL
Edwin H. Brink, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware
Application July 28, 1949, Serial No. 107,254
8 Claims. (Cl. 118—114)

1. Apparatus for coating comprising means for applying an excess of coating material to the surface of a rigid sheet material having rough surfaces and nonuniform caliper; a smooth hard polished surface wiping roll fixedly journaled; a work supporting pressure roll opposed to and cooperating with the wiping roll, the axes of the two rolls being substantially parallel and in a plane substantially perpendicular to that surface of the sheet being coated, at least the outer portion of said pressure roll being of a resilient material, yieldable mountings for said pressure roll so that the roll is yieldable in said plane and



exerts a substantially constant and uniform pressure on the sheet; and means for removing the excess coating material from the wiping roll.

2,642,031
ADHESIVE APPLIER FOR FIBER CONTAINERS
Eric W. Lager, Palos Park, Heinrich E. Haase, Chicago, and James J. Prohaska, La Grange, Ill., assignors to Swift & Company, a corporation of Illinois
Application April 6, 1950, Serial No. 154,366
10 Claims. (Cl. 118—232)

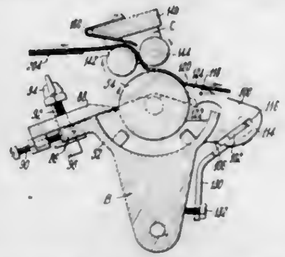


8. A device for applying a tacky bead of molten gelatin, or the like, around the open end of a cylindrically shaped container, said device including an applicator having a face positioned in a plane disposed at an angle with respect to the vertical, means to supply said applicator with a molten gelatin to the rear of said face, said applicator being elongated in a horizontal direction and composed of a material to permit the gelatin to ooze to the face thereof, and a conveyor adjacent said applicator and positioned to support said container with the edge of said end in contact with said face, said conveyor being adapted to move said container along said applicator while rotating the container thereby bringing all of said edge into contact with said face.

2,642,032
ROLL-STRIPPING MEANS FOR CEMENTING MACHINES
Walter P. Osgood, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a corporation of Massachusetts
Original application April 12, 1950, Serial No. 155,543. Divided and this application December 16, 1950, Serial No. 201,182
4 Claims. (Cl. 118—245)

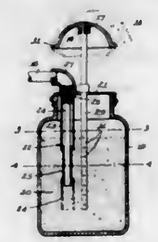
1. In a coating machine which includes a trough for liquid cement and a driven roll mounted in said trough, means for stripping from said roll work pieces which have been applied thereto to be coated, said stripping means comprising a support member rockable about an axis parallel

to the axis of said roll, and a plurality of stripper fingers on said support member each slidable independently thereon toward said trough, said



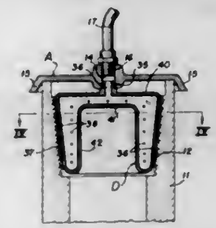
support member and fingers having mutually engaging surfaces locking said fingers against appreciable rocking movement relative to the support member about the axis of the latter.

2,642,033
APPARATUS FOR POWDERING THE INTERIOR OF SURGEONS' GLOVES
Charles J. Miller, deceased, late of Buffalo, N. Y., by Catherine F. Miller, administratrix, Buffalo, N. Y.
Application March 24, 1951, Serial No. 217,379
6 Claims. (Cl. 118—308)



1. In a glove powdering apparatus, the combination with a housing, of a compressed-air chamber confined within said housing, a powder-container mounted outside of said housing, an air-supply pipe leading from said compressed-air chamber to said powder-container to deliver compressed air into the latter, means to control the delivery of air from said compressed-air chamber to said powder-container, a tube extending upwardly from said compressed-air container, a glove holder mounted on the upper end of said tube and having a powder discharge opening in communication with the interior of said tube, said glove holder having a contact-rim around its perimeter adapted to have the wrist-portion of a rubber glove stretched thereover and having its powder-discharge opening within the confines of said contact-rim, said rim forming an air-tight union with the glove when the wrist portion of the latter is stretched around said rim so as to inflate the remainder of the glove upon introduction of compressed air into said powder-container, powder within said container being delivered into said inflated glove with the compressed air to powder-coat the interior of said glove.

2,642,034
TOOL JOINT LUBRICATOR
Harold F. Griffin and Merrill C. Wright, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application November 20, 1950, Serial No. 196,694
3 Claims. (Cl. 118—317)



3. A device for greasing a tool joint box comprising, in combination, a cover plate of generally circular shape having an inlet opening with the outer edge of said cover plate in the shape of a downwardly depending lip for making a snug fit with the exterior surface of the end of said tool joint box, a plug member mechanically secured to said cover plate and having its outer surface tapering downwardly and inwardly to make a snug fit with the tapered threads of the tool joint box and having a multiplicity of radial perforations extending through the exterior wall thereof and distributed substantially uniformly circumferentially and longitudinally throughout the area of said outer surface, the exterior surface of said plug member defining at least one longitudinal passage to allow the discharge of foreign matter when grease is discharged through said perforations onto the threads of said tool joint box, the lower end of said plug being closed to form a cavity and its upper end being in fluid communication with said inlet opening of said cover plate.

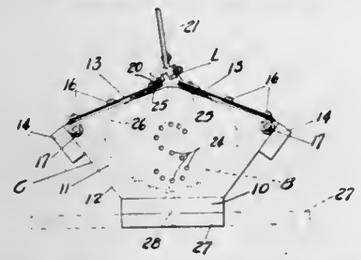
2,642,035
LIQUID APPLICATOR FOR YARN
Henry J. McDermott, Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 30, 1950, Serial No. 152,849
2 Claims. (Cl. 118—405)



1. Apparatus for applying liquid to a running strand while it passes along a steeply inclined to vertical path, the apparatus comprising a body having surfaces which define a pair of recesses extending inwardly from the opposite ends of the body, the body having a passageway for connecting the nearer portions of the recesses and

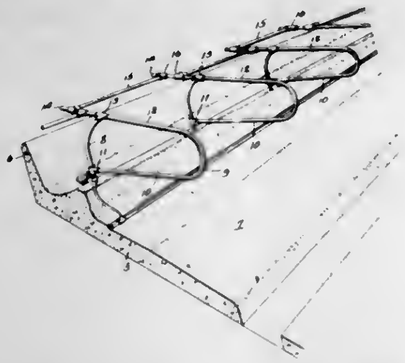
an outer liquid-conducting surface extending between and joining with the surfaces defining the recesses, means for feeding a liquid into one of the recesses, said surface defining the other recess being flared as it extends away from the passageway and joining with the outer surface of the body to form an edge at the end of the body, and means for supporting the body with the first-named recess disposed above the passageway and the other recess with said edge extending at an inclination between a vertical and horizontal direction.

2,642,036
BIRD DOG TRAINING DEVICE
John R. Stuart, Farwell, Mich.
Application November 28, 1951, Serial No. 258,693
8 Claims. (Cl. 119—15.6)



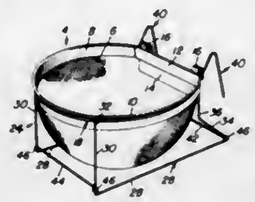
1. A dog training device comprising a trap for housing a flight bird, said trap having hinged roof panels in releasable engagement, and a flexible strip of shorter length than the distance between the free edges of the roof panels when said panels are in open position secured at its ends to said roof panels to form a depending flight bird-accommodating loop within the trap when said roof panels are in closed position and to catapult said bird into the air when said roof panels are sharply swung to open position.

2,642,037
COW STALL STRUCTURE
Howard J. Merrill, State College, Pa.
Application August 16, 1950, Serial No. 179,745
4 Claims. (Cl. 119—27)



1. In a stall construction, a stall platform having a manger formed along the front edge thereof, vertical supporting pipes embedded in the platform adjacent to the manger, said pipes being curved laterally, stall division pipes providing upper and lower spaced horizontal bars connected to said vertical supporting pipes, the free ends of said upper bars of the division pipes providing extensions, and adjustable tie rods secured to said extensions, holding said stall division pipes against lateral spreading.

2,642,038
BIRD NEST FRAME
Benjamin W. Howling and Marie C. Howling, Billings, Mont.
Application November 27, 1950, Serial No. 197,670
3 Claims. (Cl. 119—45)



1. A bird nest frame of the class described comprising a horizontal nest embracing and supporting ring, hanger hooks attached to and projecting beyond one side of said ring, a pair of opposed spaced parallel U-shaped leg frames disposed beneath said ring, the bight portion of said leg frames being in a common horizontal plane, being linearly straight, the end portions rising vertically from said bight portions and providing supporting legs, the upper ends of said legs being formed into eyes and said eyes embracing coacting portions of said ring and horizontal braces at right angles to and rigidly interconnecting the respective end portions of said leg frames.

2,642,039
EYEBROW PENCIL
Andrew M. Filak, Lakewood, Ohio, assignor to Jerome R. Cox, Columbus, Ohio, as trustee
Application May 22, 1950, Serial No. 163,546
5 Claims. (Cl. 120—15)

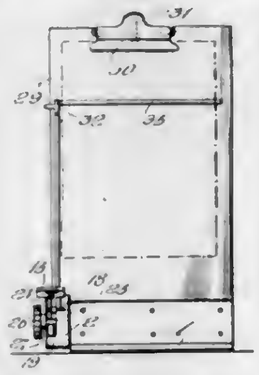


3. A marking device for facial use comprising a holder provided with a camming surface; a marking element carried in the holder; a cover section slidably mounted for longitudinal movement on the holder, and into which the marking element extends; and a cutting member for pointing the marking element secured to and movable with the cover section and contacting at times with said camming surface whereby longitudinal movement of the cover section relative to the holder in one direction retracts the cutting element to a position out of engagement with the marking element.

2,642,040
COPYHOLDER AND LINE INDICATOR
William F. Turner, Arlington, Va.
Application December 8, 1952, Serial No. 324,615
4 Claims. (Cl. 120—34)

1. A copy holder comprising a base, a backing board rising from the base, a housing carried by

the base at one side of the lower end of said board and having inner and outer heads, the housing being formed with an upper opening and a vertical slot spaced downwardly therefrom, a shaft extending horizontally through the housing axially therefrom with its outer end portion projecting from the outer end of the housing, a reel rotatably mounted about the shaft within the housing, pins projecting from the outer side of said reel, a disc fitting against the outer side of said reel and formed with openings through which the pins pass, said disc having its marginal edge formed with teeth, springs carried by the outer head of said housing and bearing against the outer side face of said disc to frictionally resist turning movement of the outer end of the housing and the disc relative to each other, a knob screwed upon the protruding outer end of said shaft and when tightened applying pressure to increase frictional binding between the springs and the disc and thereby prevent accidental ro-



tation of the reel, a tape wound about said reel and projecting upwardly through the opening for extension upwardly along the adjoining side edge portion of the board, a clip carried by the outer end of said tape for straddling the side edge portion of the board and holding the extended tape close against the board, a guide strip extending from said clip transversely across the board, a lever pivoted upon said shaft and passing outwardly through the slot in the housing, a pawl pivoted to said lever and having its inner end passing through the slot and engaging the teeth of said disc, the outer end of said pawl having a finger piece for tilting the pawl out of engagement with the teeth of the disc, a spring urging said lever upwardly, and an abutment carried by the outer head of said housing and moved to adjusted positions to limit downward movement of the lever by loosening said knob and turning the outer head of the housing to adjusted positions.

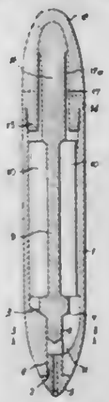
2,642,041
ANTILEAK FOUNTAIN PEN
Benjamin F. Miessner, Morristown, N. J., assignor to Miessner Inventions Inc., Morristown, N. J.
Application January 18, 1951, Serial No. 206,678
8 Claims. (Cl. 120—42.16)

2. An anti-leak fountain pen including a hood carrying at least a pen point and a feed bar having a longitudinal supply channel therethrough, a nipple type valve member of suitable elastic material cemented to the inner end of the feed bar, the valve having a normally closed slit in its free curved end and an ink barrel fitting tightly over the valve member and inner end of the feed bar at its junction with the hood, the



barrel being longitudinally stiff but transversely compressible as and for the purpose described.

2,642,042
WRITING INSTRUMENT
John Pinkney Gowland, Santa Barbara, Calif.
Application March 17, 1950, Serial No. 150,334
In Great Britain March 23, 1949
10 Claims. (Cl. 120—42.17)



1. A ball pen, comprising a barrel having a longitudinal bore, a housing connected to the barrel to close one end of said bore, a writing ball rotatably carried in said housing, said housing being formed with a duct communicating with said bore and leading to the ball, a cylindrical ink reservoir unit rotatably mounted in said bore of the barrel, said unit being formed with a set of ink reservoirs extending side by side from one end of the unit to the other, the barrel being formed adjacent to the ball housing with a seating co-operating with the adjacent end of the reservoir unit to normally close in an ink-proof manner one end of each reservoir and having an ink duct communicating with said duct of the housing, and means connected with the reservoir unit and extending outside the barrel for turning said unit in the bore of the barrel to selectively bring the said end of the individual said reservoirs into registry with the ink duct in the seating to selectively position one of said reservoirs for use, the barrel being composed of two parts detachably connected to each other, one part being formed with said seating and the other part

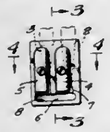
being formed with a further seating for co-operation with the other end of the reservoir unit to normally close the other end of each reservoir, the part containing said further seating having an air-inlet duct communicating with the atmosphere and forming a port in said seating so disposed relative to the ink duct as to be in registry with the other end of any one of the reservoirs of the unit when one end of such reservoir is in registry with the ink duct.

2,642,043
FOUNTAIN PEN
Benjamin F. Miessner, Morristown, N. J., assignor to Miessner Inventions Inc., Morristown, N. J.
Application July 7, 1950, Serial No. 172,534
5 Claims. (Cl. 120—50)



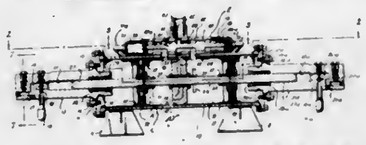
3. A fountain pen with writing point and ink reservoir having concentric separate, ink and air conductors extending from the reservoir to the writing point and separated by a tubular ink feeding wick providing ink feeding communication between the reservoir and the pen point.

2,642,044
PENCIL SHARPENER
Johann Friedrich Wilhelm Mussgüller, deceased, late of Erlangen, Germany, by Werner Lüttgens, administrator, Erlangen, Germany, assignor to Kiebes & Co., Erlangen, Germany
Application September 28, 1949, Serial No. 118,268
In Germany October 1, 1948
6 Claims. (Cl. 120—93)



1. A pencil sharpener, comprising in combination, a one-piece body of rigid material; wood cutting means partially formed from said body of material for cutting the wood of a pencil; lead cutting means partially formed from said body of material and being located adjacent to said wood cutting means for cutting the pencil lead exposed by said wood cutting means; and stationary stop means at least partially formed from said body of material and being located opposite said wood cutting means to engage an end of a pencil lead exposed thereby so that a predetermined length of lead is exposed by said wood-cutting means and may thereafter be sharpened to a point in said lead cutting means.

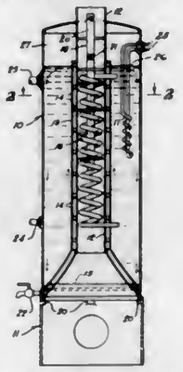
2,642,045
FLUID MOTOR HAVING PISTON ACTUATED PILOT VALVE
Ernest L. Potts, Houston, Tex., assignor to Brown Oil Tools, Inc., Houston, Tex., a corporation of Texas
Application February 20, 1950, Serial No. 145,249
11 Claims. (Cl. 121—157)



1. A hydraulic motor including, a cylinder having a central partition block dividing the cylinder into two chambers, a piston assembly comprising a pair of connected pistons with one of said pistons being slidable within one chamber and the other piston being slidable within the other chamber of the cylinder, each chamber having a pressure fluid inlet and a pressure fluid exhaust, valve means movable to two extreme positions for controlling the flow of pressure fluid to and from the cylinder, one position of the valve means directing pressure fluid into the chambers against one side of each piston and exhausting pressure from the chambers on the opposite side of each piston whereby the piston assembly is moved in one direction within the cylinder, the second position of the valve means reversing the application and exhaust of pressure fluid with respect to the piston assembly to move the same in an opposite direction within the cylinder, and an actuator device within the central partition block and engageable by one of the pistons as the piston assembly approaches the end of its stroke for directing pressure fluid through the actuator device to the valve means to momentarily unbalance pressures across the valve means and move it from one extreme position to the other to reverse the direction of movement of the other to reverse the direction of movement of the piston assembly within the cylinder.

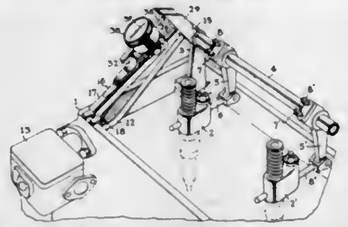
2,642,046
STAND BOILER WITH VERTICAL FLUE, CIRCULATING COIL, AND INDIRECTLY HEATED DOMESTIC SUPPLY
Carl Z. Alexander, Chatham, N. J.
Application July 22, 1950, Serial No. 175,440
1 Claim. (Cl. 122—16)

A domestic hot water heating unit comprising a fire box, a tank vertically disposed above the fire box, a flue vertically disposed through the tank along the longitudinal center line thereof, the flue at the bottom flaring outwardly and downwardly and forming a canopy over the fire box, a shell disposed in the tank, the shell being concentric with the flue and terminating interiorly of the tank at the top and terminating at the bottom in a second canopy in spaced relationship with the first mentioned canopy, the second mentioned canopy having formed therein a plurality of openings communicating with the space intermediate the first and second mentioned canopies, the tank having formed therein a water inlet adjacent the top of the second mentioned canopy and a water outlet below the top of the shell, the inlet and outlet being on the same side of the tank, water for the tank to a level intermediate the outlet and the top of the shell, a water circulating spiral pipe disposed in the flue, the end of the spiral pipe at the bottom extending through the flue and the shell and terminating interiorly of the tank on the side opposite the inlet and substantially in the plane thereof, the end of the spiral pipe at the top extending through the flue and the shell and terminating interiorly of the tank on the side thereof opposite the outlet and substantially in



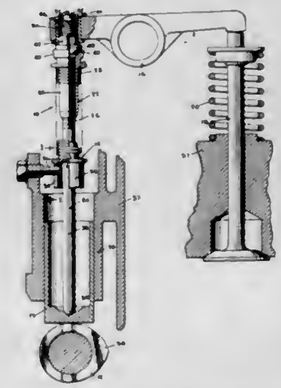
the plane thereof, a domestic hot water supply coil disposed in the tank below the water level thereof and coacting with the end of the spiral tube at the top, and a baffle coacting with the spiral tube removably disposed in the flue, the baffle comprising an upright member, a plurality of spaced horizontal members of semi-circular form disposed on the upright member, the diameter of the horizontal members being less than that of the flue and successive members being oppositely directed and spaced apart a distance coacting with the pitch of the spiral tube.

2,642,047
METHOD OF ADJUSTING INJECTORS
Harry Amos Johnson, Omaha, Nebr.
Application December 2, 1948, Serial No. 63,039
1 Claim. (Cl. 123—1)



The method of coordinating the movement of the control racks of the fuel injectors of a multi-cylinder compression ignition engine of the type in which a single master control element actuates the racks, one for each injector, through an adjustable linkage whereby said rack and said control element may be moved relatively to each other which method comprises commencing with one of said control racks properly adjusted relatively to said element, motion of said control element and said adjusted rack being thus limited at one of its extremes by arrest of said rack, and limited at its other extreme by arrest of said control element; mounting a direct reading gage between said element and a fixed part of the engine; setting said control element and the adjusted rack at one of said limits; adjusting the linkage associated with a second injector so as to move its associated control rack relatively to said element and toward its limiting position; discontinuing such movement of the rack when it is arrested, arrest of said rack being indicated by movement of the control element and the associated gage; setting the linkage being adjusted and the associated control rack at the point where its arrest occurs; and with the gage still in place setting any remaining unadjusted control racks in the same manner as said second control rack.

2,642,048
VALVE OPERATING MECHANISM
Robert C. Russell, Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 5, 1951, Serial No. 204,590
11 Claims. (Cl. 123—90)

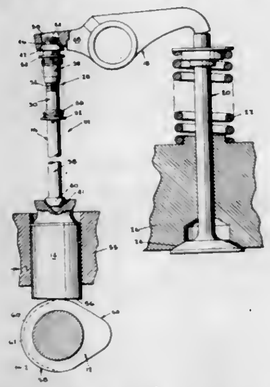


1. A valve operating mechanism comprising threadingly engaged screw and nut members and a non-rotatable member, a spring normally biasing said screw and nut members apart, means for oscillating one of said screw and nut members, and one-way brake means engageable with the other of said screw and nut members, said brake means including a rotatable member and a holding member engageable between the rotatable member and said non-rotatable member and said rotatable member of the brake means being frictionally engageable with the other of said screw and nut members.

2,642,049
VALVE OPERATION COMPENSATING MECHANISM
Robert C. Russell, Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 24, 1951, Serial No. 212,543
8 Claims. (Cl. 123—90)

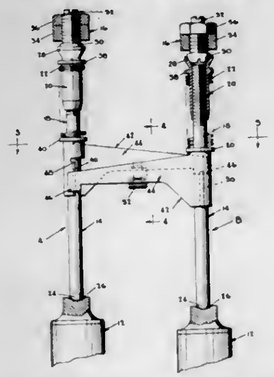
1. A valve operating mechanism comprising threadingly engaged screw and nut members, a spring normally biasing the members apart, a

rotatable cam including a ramp portion and a base circle portion, said base circle portion presenting a peripheral flange of narrower width than the remaining contact engaging surface of the cam, and a freely reciprocable and rotatable tappet, reciprocable along an axis substantially at right angles to the axis of rotation of the cam, having a part thereof engageable with one of the threadingly engaged screw and nut members and a cam contacting surface oppositely



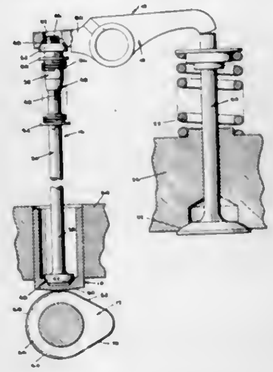
axially disposed to said part thereof, said flange being engageable with the cam contacting surface of the tappet at a radius to the axis of the tappet and said cam contacting surface lying substantially in a plane angularly disposed a slight amount to a plane perpendicular to the axis of the tappet said angularity being equal to or greater than the angular variation from true right angular relation between the axes of the tappet and cam.

2,642,050
VALVE MECHANISM
Robert C. Russell, Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 24, 1951, Serial No. 212,544
12 Claims. (Cl. 123—90)



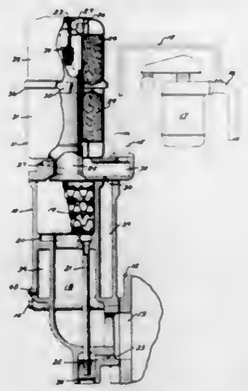
1. A valve operating mechanism comprising a pair of threadingly engaged screw and nut member assemblies, a spring for each screw and nut member assembly normally biasing the members of each assembly apart, means associated with one screw and nut member assembly engageable with means associated with the other screw and nut member assembly, each of said means including a pair of arms arranged substantially at right angles to one another near the axis of a screw and nut assembly with which it is associated, a finger at the extremity of one arm and a cam element on the other arm with the finger of one means engaging the cam element on the other means and the finger on the second means engaging the cam element on the first means, said engageable means associated with the screw and nut member assemblies operative upon alternate relative movement between the assemblies to provide for an alternate oscillation first of one of the members of one screw and nut member assembly and then of one of the members of the other screw and nut member assembly.

2,642,051
SELF-ADJUSTING VALVE MECHANISM
Robert C. Russell, Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 28, 1951, Serial No. 243,948
12 Claims. (Cl. 123—90)



1. A valve operating mechanism comprising a threadingly engaged screw and nut members assembly, a spring normally biasing the members apart, a rotatable cam including a ramp portion and a base circle portion presenting a peripheral surface lying substantially uniformly angularly to the axis of the cam, said base circle portion being recessed throughout substantially its entire surface to so provide a peripheral flange of narrower width than the remaining peripheral surface of the cam with the flange on the maximum diameter portion of the cam, and means, reciprocable along an axis substantially at right angles to the axis of rotation of the cam engageable with one of the threadingly engaged screw and nut members assembly, having a crowned cam contacting surface engageable with the peripheral surface of the cam, including the surface of the flange, at zones on the cam surface disposed to one side of a plane passing medially through the means having the crowned surface and lying at right angles to the axis of rotation of the cam.

2,642,052
ENGINE CRANKCASE BREATHER AND OIL SEPARATOR
Harold H. Wagner, Peoria, Ill., and Edred B. Williams, Indianapolis, Ind., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application October 25, 1952, Serial No. 316,824
5 Claims. (Cl. 123—119)



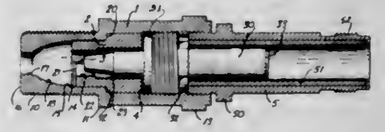
1. In a breather for permitting the exhaust of blow-by gases from the crankcase of an internal combustion engine, a plurality of filters in series for extracting oil from said blow-by gases and conduits for returning said gases to the engine air intake, separate conduits for directing oil separated by the first of said filters to the engine crankcase and a reservoir for collecting oil separated from the blow-by gases by the latter in the series of filters.

2,642,053
ELECTRODE FOR SPARKING PLUGS AND THEIR MANUFACTURE
Arthur Gordon Dowson, London, England, assignor to Baker & Company Incorporated, Newark, N. J., a corporation of New Jersey
Application July 13, 1949, Serial No. 104,484
In Great Britain July 16, 1948
1 Claim. (Cl. 123—169)



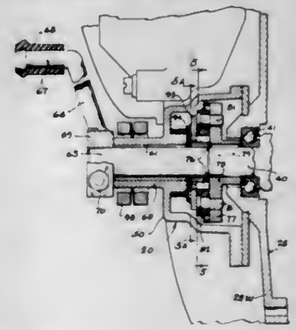
A spark plug comprising a center electrode and at least one earth electrode electrically insulated from each other and adapted for spark discharge therebetween, at least said earth electrode being formed of a strip of base metal and having a longitudinally extending recess in one end thereof, said recess being juxtaposed to the center electrode on that side of the earth electrode which is exposed to the eroding effects of the spark, said recess extending transversely the full width of said strip, a precious metal inlay tip bonded to said strip within said recess, whereby the area of the electrode exposed to the eroding effects is made resistant thereto.

2,642,054
ANTECHAMBER TYPE SPARK PLUG MECHANISM
Gilbert F. Wright, Renton, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application May 20, 1950, Serial No. 163,155
5 Claims. (Cl. 123—169)



1. A spark plug comprising a body having an internal chamber of circular cross section, an internal shoulder in said chamber facing toward the inner end of said body, the walls of said chamber being of circular arcuate shape in an axial direction and converging from said internal shoulder toward the inner end of the said body, the radius of curvature of said walls being approximately three times the maximum radius of said chamber, and the centers of curvature of axial wall elements being substantially in the plane of said internal shoulder, said body having an opening from said internal chamber through the body's inner end, an insulator supporting a first electrode within said body and disposed adjacent to said internal shoulder, a second electrode electrically connected to said body, cooperating with said first electrode and disposed adjacent to said internal shoulder, and an external shoulder on said body facing toward the inner end of said body and spaced therefrom a distance at least substantially as great as the distance between said internal shoulder and the inner end of said body, and said body being externally threaded from its inner end substantially to said external shoulder for reception in the spark plug port of an engine.

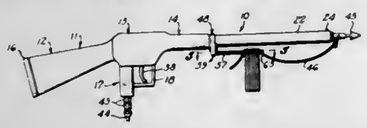
2,642,055
ENGINE STARTER MECHANISM
William P. Dalrymple, Rochester, N. Y., assignor to American Brake Shoe Company, Wilmington, Del., a corporation of Delaware
Application August 1, 1951, Serial No. 239,790
3 Claims. (Cl. 123—185)



1. A starter assembly comprising a first rotatable shaft having a manually operable lever means attached to one end thereof and a ratchet means attached to the other end thereof, a driv-

ing means having an integral disc portion adjacent said ratchet means, a pawl mounted on said disc on the side thereof facing toward said ratchet means, said pawl being pivotally mounted on said disc for pivotal movement relative thereto, means urging said pawl into engagement with said ratchet means and being ineffective at predetermined speeds of said driving means whereby said pawl is centrifugally disengageable from said ratchet means, a housing for said shafts, a first abutting means carried by said first rotatable shaft, a second abutting means fixed to said housing internally thereof, a third abutting means fixed to said housing externally thereof and having a portion against which said lever means is adapted to bear, and spring means held under compression between said first and second abutting means to normally cause said lever means to bear against said third abutting means in position to be actuated.

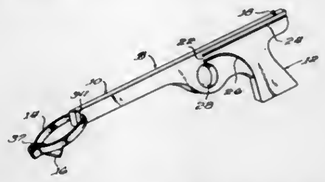
2,642,056
HARPOON GUN
Ralph E. Harris, Long Beach, Calif., assignor to Frank A. Pachmayr, Culver City, Calif.
Application September 1, 1950, Serial No. 182,717
2 Claims. (Cl. 124—11)



1. In a gun adapted to be utilized in conjunction with a projectile having a line attached thereto and relying for its activating energy upon an externally positioned container of pressurizing fluid, the combination of: a unitary metallic housing including a stock portion, a valve chamber and a barrel receiving portion, said valve chamber having integrally formed therewith and depending therefrom a hand grip portion which communicates with its interior and said barrel receiving portion having an elongated cavity formed therein communicating with said valve chamber; a barrel supported in said cavity having an apertured plug mounted in the rearward end thereof; a valve positioned in said valve chamber and supported by said plug; a line support mounted upon said barrel and having an elongated, resilient loop means encompassing the loops of said line to maintain them on said support; and a trigger having its upper end pivotally mounted upon said valve for operating said valve located in said valve chamber and projecting downwardly therefrom to the exterior of said housing.

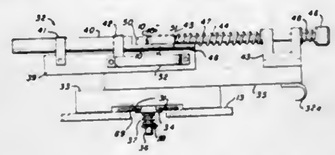
2,642,057
TOY GUN
Wilbur J. Watkins, Long Beach, Calif.
Application August 20, 1951, Serial No. 242,664
1 Claim. (Cl. 124—17)

A pistol-simulating toy gun for shooting projectiles, comprising: a body having a barrel along which projectiles may be driven, said barrel being formed with a slot at its front end, said body also including a downwardly and rearwardly extending triggering member shaped like the handle of a pistol and having at its forward portion a single integral point of connection with said body of sufficiently small cross-sectional area whereby it is resiliently movable in a direction downwardly and forwardly with respect to said point of connection; a finger hole adapted to receive the index finger of a user of said gun formed in said body forwardly of said handle; an upright pin disposed within a vertical bore formed adjacent the rear end of said barrel, said pin being secured at its lower end to the upper portion of said triggering member so as to normally project above the upper surface of said barrel; a rubber band of less length than said barrel secured at its front end within said slot; and a pusher element secured to the rear end of said



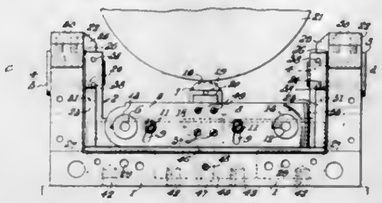
rubber band and formed with a vertical passage wherein may be received the upper portion of said pin, movement of said triggering member being accomplished by exerting a squeezing motion between said finger hole and the rear of said handle, said movement serving to withdraw said pin downwardly from within the vertical passage of said pusher element whereby it will be released and a projectile disposed forwardly thereof will be driven along and over the front of said barrel.

2,642,058
BALL PROJECTOR
Stephen J. Murphy, Torrington, Conn., assignor of one-sixth to Ernest L. Cattey, Torrington, Conn.
Application June 27, 1949, Serial No. 101,557
1 Claim. (Cl. 124—26)



In a bowling ball projector for a game board, a base, a barrel mounted for horizontal swinging movement on said base, said barrel being upwardly tilted at its forward end to prevent the ball from leaving the barrel prematurely, a headed plunger at the rear of said barrel for propelling a ball through said barrel, a U-shaped guide block supported by said base for slidably holding said plunger, a coiled spring surrounding said plunger and engaging the guide block and the plunger head, said barrel being cut away at the top of its rear section to permit the ball to be dropped therein into propelling position in front of said plunger, said plunger having a vertical slot in its forward end, an upward projection in the rear portion of said barrel located in said slot to prevent the ball from following said plunger rearwardly when it is retracted against its spring to loading position, a handle on the rear of said plunger, and a spring cushion located between said rear handle and said U-shaped guide block to reduce the noise of impact and to prevent injury to said handle.

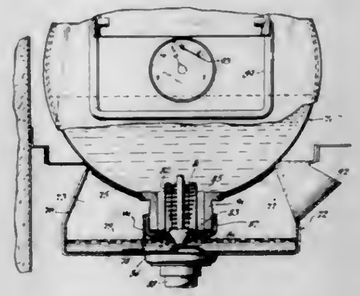
2,642,059
DRESSING FIXTURE FOR CONTOURING GRINDING WHEELS
Walter Muench, Newark, N. J., assignor to Walter Muench, Incorporated, Newark, N. J., a corporation of New Jersey
Application January 7, 1950, Serial No. 137,321
14 Claims. (Cl. 125—11)



1. In a device of the character described, a U-shaped base member comprising a base portion and a pair of support arms extending in parallel spaced relation from said base portion and in perpendicular relation thereto, a U-shaped swing-block comprising a base portion and a pair of mounting arms extending in parallel spaced relation from said swing-block base portion between the base member arms, bearing means swingably supporting the swing-block arms on the base member arms, the spacing of the swing-block arms providing a central space between said swing-block arms in which to accommodate projection of a work piece, a diamond carrier, a cutting diamond on said carrier and projecting therefrom into the space between the swing-block arms, means supporting said carrier on the swing-block base portion between its arms and in position for engaging with a work piece as the swing-block is swung on its bearing support, each said swing-block arm having stop wing means projecting laterally therefrom, each said base member arm carrying a stop projection engageable by the stop wing means as the swing-block is swung laterally in one direction and by the swing-block arms as the swing-block is swung in the opposite direction to limit the swing-block to a maximum of 180° of swing movement, and handle means extending lengthwise between the wing means at the respective ends of the swing-block and manually operable for imparting swinging movement to said swing-block.

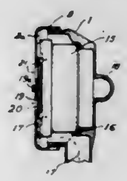
2,642,060
OIL RANGE AND TANK
Cecil E. Chesser, Hebron, Ohio, assignor to Newark Stove Company, Newark, Ohio, a corporation of Ohio
Application December 13, 1946, Serial No. 715,991
1 Claim. (Cl. 126—44)

In a kitchen range in which a frontal panel is provided with a rearwardly extending fluid fuel storage aperture of predetermined width dimensions, the combination with a sump tank comprising a relatively shallow horizontally disposed rectangular basin having fore and aft walls with uppermost edges formed into circular nesting flanges and inwardly converging sidewalls which together with said fore and aft walls form a seating perimetry for a cylindrical closure cover to said sump tank, a bottom wall to said sump tank having a valve actuating protuberance with an inclined approach surface and a valve engaging abutment element, of a removable reserve liquid fuel supply storage tank of cylindrical conformity to coincide with the circular curvature of said nesting flanges and of length to overlie said fore and aft sump tank walls and thereby to constitute a closure cover to said sump tank, a protuberant valve housing jutting axially of said storage tank and located longitudinally on its cylindrical wall in a position to register with said sump tank bottom wall protuberance and abutment element, an inwardly depressible spring loaded valve head contained in said valve housing having a portion outwardly extending so as



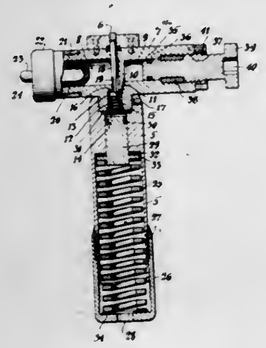
to be engaged by and depressed by said bottom wall protuberance when said storage tank is rotated while nested in said fore and aft supporting flanges, one of said sump tank side walls remote from said bottom wall abutment element being formed with an intermediate aperture in transverse registration with said bottom wall abutment so that when said storage tank is rotated in its nesting flanges said valve housing may be passed clear of said sump tank side wall.

2,642,061
AIR LINE RESPIRATOR FILTER CARTRIDGE HOLDER
Charles J. Boyer, West Reading, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application October 26, 1951, Serial No. 253,341
3 Claims. (Cl. 128—146)



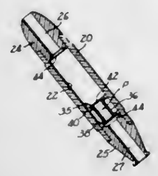
1. In an air line respirator system, including a respirator face piece, having an air inlet hose, a filter unit connected to said hose and which is supplied by air under pressure, said filter unit comprising a container and a readily detachable outer cap, said cap having a one-way acting inhalation valve which is normally closed as the result of air pressure in said system and which is opened only as a consequence of removal of said air pressure and inhalation by the wearer of the respirator face piece, said container having passageways for allowing air flow through said filter unit irrespective of the presence or absence of said air pressure.

2,642,062
INJECTION APPARATUS
Edwin A. May, Ridgewood, N. J., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
Application May 17, 1949, Serial No. 93,771
13 Claims. (Cl. 128—173)



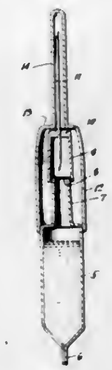
11. A hypodermic injection apparatus including in combination a hollow body providing adjacent one of its ends a space to receive a medicament-containing ampule from which liquid is to be discharged at high velocity, a loading cap movably mounted by said body to close said space, a compressible pressure accumulator disposed within said body and operatively connected to said space to act on an ampule contained therein, manually operated force-compounding means carried by said body for compressing said accumulator, means for retaining said accumulator in compressed condition and manually shiftable means accessible on the exterior of said body to release said retaining means.

2,642,063
INHALER
Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.
Application July 31, 1948, Serial No. 41,857
23 Claims. (Cl. 128—206)



1. In combination in an inhaler: an elongated tubular body providing a receptacle having an air inlet passage at one end, an axially aligned air outlet passage at the opposite end, and an intervening bore extending along the body axis and communicating with said inlet and outlet passages; a medicament carrying and dispensing cartridge mounted in said intervening bore and reciprocable between the ends thereof under influence of an air stream through said bore, air passage means being provided past said cartridge; and stop means adjacent the ends of said bore for impingement by said cartridge to jar and dislodge medicament from said cartridge and into said air stream.

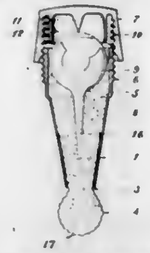
2,642,064
INJECTION DEVICE
Errol R. Lawshe, Ridgewood, N. J., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
Application April 24, 1951, Serial No. 222,610
2 Claims. (Cl. 128—216)



1. An injection device including in combination a medicament-containing body, a reduced neck extending from said body, a pierceable portion at the outer end of said neck, an uninterrupted cup-shaped member frictionally engaging and mounted for sliding movement on said neck, a double-ended needle extending through, fixed with respect to and solely supported by the base of said cup, said needle having an inner end terminating short of said pierceable portion, a cylindrical actuator slidably contacting and encircling said body, said actuator being spaced from engagement with said cup, a base portion at the outer end of said actuator and overlying the bottom of said cup, said base being formed with an opening through which the needle extends and an enclosing portion mounted by said base to encircle said opening and enclose the outer needle end.

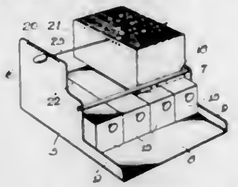
2,642,065
ODONTALGIC DEVICE
Mario Negri, Rome, Italy, assignor to Ditta A. Gazzoni & Co., Bologna, Italy
Application April 9, 1951, Serial No. 219,977
In Italy April 15, 1950
3 Claims. (Cl. 128—269)

1. A device for bringing in contact with the internal surface of the external auditive canal an analgesic fluid intended to act on the innervation of the trigeminal nerve, comprising in combination a container provided at one end with a cap and at the other end with an opening, an absorbent material in said container and partially projecting from the opening of said container, a covering of absorbent material wrapping said projecting part of said absorbent material, a vial containing the analgesic fluid in



said container resting on the absorbent material, and means in said cap of the container adapted to break said vial.

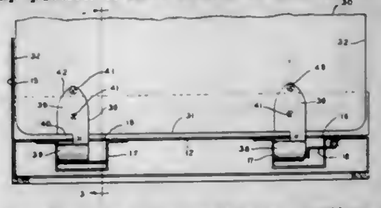
2,642,066
CARD SORTING DEVICE
John H. Page, Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application August 3, 1949, Serial No. 108,331
1 Claim. (Cl. 129—16.1)



A card-sorting device comprising a base, a pair of spaced upright walls having a series of sorting needle apertures along the upper edges thereof, a horizontal cross member connecting said walls intermediate the top and bottom thereof for aligning the proximate ends of the cards to be sorted, and a plurality of blocks of uniform height slidably mounted in side-by-side relation on said base between and parallel to said side walls, said blocks being arranged for selective withdrawal beneath said cross member to non-card-supporting position beyond the latter.

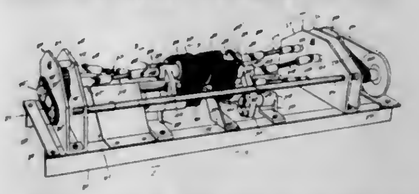
2,642,067
SEPARATOR SHEET FOR FILING APPLIANCES
John H. Talmage and Robert W. Finley, Canton, Ohio, assignors to Dicboid, Incorporated, Canton, Ohio, a corporation of Ohio
Original application March 2, 1946, Serial No. 651,564. Divided and this application October 7, 1947, Serial No. 778,432
5 Claims. (Cl. 129—16.7)

1. In a filing tray appliance in which a plurality of separator members are pivotally mounted on a base, a non-metallic separator sheet having substantial thickness, there being a set of holes formed one above another in said sheet adjacent each lower corner thereof, sheet metal roller members each having a cylindrical portion terminating in two strap portions, a plurality of buttons formed in each strap portion projecting toward the other strap portion, the top edge of each strap portion terminating in one of said buttons, the strap portions being engaged over the faces of the lower corner portions of said sheet with the buttons engaged in said holes and with the top button-terminating edge of each strap portion located within one of said holes,



and the buttons of opposite strap portions engaged within each hole being spot welded together to rigidly clamp the separator sheet between the strap portions and to provide a pivot roller projecting from the lower edge adjacent each lower corner of the separator sheet.

2,642,068
MACHINE FOR REMOVING GREEN CORN FROM THE COB
Joe R. Urschel, Valparaiso, Ind.
Application January 6, 1949, Serial No. 69,483
13 Claims. (Cl. 130—9)

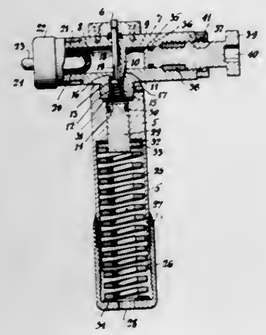


1. In a machine for removing the kernels from the cob of an immature ear of corn while such ear is advanced endwise substantially co-axially of a path to be traversed thereby, a plurality of at least three ear-engaging rollers spaced circumferentially about said path and directed lengthwise thereof and slightly diagonally thereof and to one another in the same direction progressively about such path, means for urging at least one of said rollers radially inwardly with respect to said path for causing an ear of corn to be complementally grasped by said rollers, means for rotating the rollers respectively about their individual axes in the same direction to cause them to rotate the ear of corn while advancing the same axially, and a shearing tool mounted along side of said path and having a shearing edge arranged substantially parallel therewith for scraping the periphery of the cob to shear the corn therefrom during said rotation and endwise advancement of the ear.

2,642,069
SMOKING PIPE
Arthur B. Modine, Racine, Wis.
Application January 12, 1949, Serial No. 70,519
6 Claims. (Cl. 131—198)

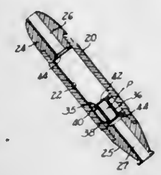
5. A device of the kind described comprising a pipe bowl having a chamber for containing tobacco and with a tubular stem communicating with the interior of the bowl adjacent the bottom of said chamber, said bowl provided with a duct therethrough and with a tubular screw

2,642,062
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Edwin A. May, Ridgewood, N. J., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
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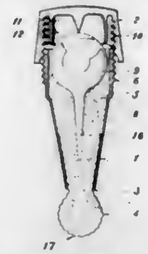
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INJECTION DEVICE
Errol R. Lawshe, Ridgewood, N. J., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
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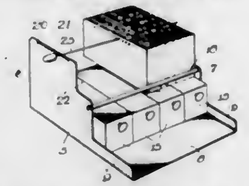
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Mario Negri, Rome, Italy, assignor to Ditta A. Gazzoni & Co., Bologna, Italy
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said container resting on the absorbent material, and means in said cap of the container adapted to break said vial.

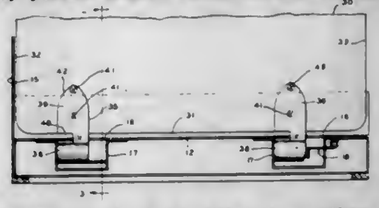
2,642,066
CARD SORTING DEVICE
John H. Page, Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application August 3, 1949, Serial No. 108,331
1 Claim. (Cl. 129—16.1)



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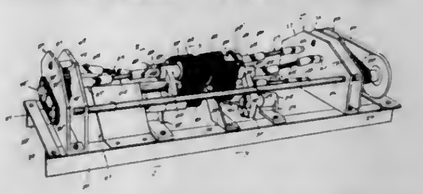
2,642,067
SEPARATOR SHEET FOR FILING APPLIANCES
John H. Talmage and Robert W. Finley, Canton, Ohio, assignors to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio
Original application March 2, 1946, Serial No. 651,564. Divided and this application October 7, 1947, Serial No. 778,432
5 Claims. (Cl. 129—16.7)

1. In a filing tray appliance in which a plurality of separator members are pivotally mounted on a base, a non-metallic separator sheet having substantial thickness, there being a set of holes formed one above another in said sheet adjacent each lower corner thereof, sheet metal roller members each having a cylindrical portion terminating in two strap portions, a plurality of buttons formed in each strap portion projecting toward the other strap portion, the top edge of each strap portion terminating in one of said buttons, the strap portions being engaged over the faces of the lower corner portions of said sheet with the buttons engaged in said holes and with the top button-terminating edge of each strap portion located within one of said holes,



and the buttons of opposite strap portions engaged within each hole being spot welded together to rigidly clamp the separator sheet between the strap portions and to provide a pivot roller projecting from the lower edge adjacent each lower corner of the separator sheet.

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MACHINE FOR REMOVING GREEN CORN FROM THE COB
Joe R. Urschel, Valparaiso, Ind.
Application January 6, 1949, Serial No. 69,483
13 Claims. (Cl. 130—9)

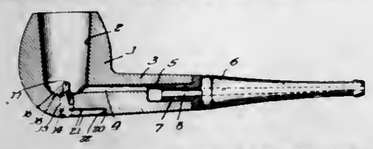


1. In a machine for removing the kernels from the cob of an immature ear of corn while such ear is advanced endwise substantially co-axially of a path to be traversed thereby, a plurality of at least three ear-engaging rollers spaced circumferentially about said path and directed lengthwise thereof and slightly diagonally thereof and to one another in the same direction progressively about such path, means for urging at least one of said rollers radially inwardly with respect to said path for causing an ear of corn to be complementally grasped by said rollers, means for rotating the rollers respectively about their individual axes in the same direction to cause them to rotate the ear of corn while advancing the same axially, and a shearing tool mounted along side of said path and having a shearing edge arranged substantially parallel therewith for scraping the periphery of the cob to shear the corn therefrom during said rotation and endwise advancement of the ear.

2,642,069
SMOKING PIPE
Arthur B. Modine, Racine, Wis.
Application January 12, 1949, Serial No. 70,519
6 Claims. (Cl. 131—198)

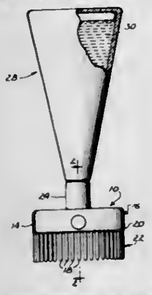
5. A device of the kind described comprising a pipe bowl having a chamber for containing tobacco and with a tubular stem communicating with the interior of the bowl adjacent the bottom of said chamber, said bowl provided with a duct therethrough and with a tubular screw

mounted in said duct and movable inwardly or outwardly by engaging and turning of the screw, the inner end of the latter being exposed at the bowl interior and by means of which such adjusting action may be effected, and thermostatically actuated means having a portion thereof se-



cured to the bowl and located between the screw and a portion of the bowl and held thereby in such position, another portion of said means adapted to engage and seal one end of the screw for controlling the admission of air through said tubular screw when the pipe is smoked, the admission of air through the screw to the interior of the bowl being increased or decreased depending upon the temperature of the bowl and screw member.

2,642,070
HAIR CONDITIONING APPLICATOR
Earl O. Lubin and Jack S. Stein, Chicago, Ill.
Application March 10, 1949, Serial No. 80,742
14 Claims. (Cl. 132—13)



3. A hand-held and operated hair conditioning applicator comprising a cup having a comb at its rim and having a passage through its base arranged to admit liquid to the vicinity of the comb, means providing a valve seat at the discharge end of said passage, a valve member for blocking and unblocking said passage, means for holding said valve member in engagement with said seat and guiding said valve member, means engageable by and under the control of the hand holding said cup for actuating said valve member, and means for spreading the discharged liquid.

2,642,071
APPARATUS FOR PERMANENTLY WAVING HAIR ON THE HUMAN HEAD
Joseph S. Cipolla, Brooklyn, N. Y., assignor to Frank J. Hale, New York, N. Y., as trustee for Frank J. Hale, John Garvey, Marianne Andrews, and Joseph S. Cipolla
Application January 14, 1950, Serial No. 138,637
4 Claims. (Cl. 132—40)

1. For use in conjunction with a quill having an end thereof rotatably received in an opening in a disc, said quill being adapted to have wound thereon from its free end to its end adjacent the disc, a helical tress of hair: an element having an elongated portion and resilient means providing an opening intermediate the ends thereof for slidably engaging the quill adjacent an end opposite from the disc whereby said element may



be forced along the quill to the disc so as to flatten and press between the disc and element the tress of hair wound on the quill.

2,642,072
APPARATUS FOR PERMANENTLY WAVING HAIR ON THE HUMAN HEAD
Joseph S. Cipolla, Brooklyn, N. Y., assignor to Frank J. Hale, New York, N. Y., as trustee for Frank J. Hale, John Garvey, Marianne Andrews, and Joseph S. Cipolla
Application January 14, 1950, Serial No. 138,638
12 Claims. (Cl. 132—40)

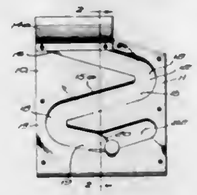


1. A waving unit comprising in combination an elongated quill and a flexible disc, said disc having a through opening, said quill being frictionally received in said opening so as to be rotatable with respect to the disc about the longitudinal axis of the quill against the frictional restraint of the walls of the opening against the quill, said disc having a through slit to receive a tress of hair wound helically along the length of the quill from the distal to the proximal end of the tress and from the free end of the quill to the end of the quill at the disc, said slit extending from adjacent said opening to the periphery of the disc, and a projection extending away from the periphery of the disc adjacent the slit.

2,642,073
COIN HOPPER AND CHUTE
Elmer C. Ingraham, Cambridge, Mass., assignor to Max L. Grant, Providence, R. I.
Application January 21, 1948, Serial No. 3,411
4 Claims. (Cl. 133—1)

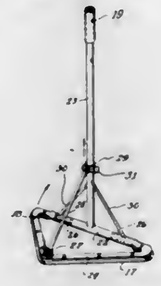
1. A coin hopper construction comprising a base having a coin runway of tortuous form having downwardly slanting portions and reverse turns and being of a width to accommodate several coins in parallel, a coin drop funnel at the upper end of said base having a slot communicating with the upper end of the runway, the rear wall of the runway being inclined to the vertical and the upper and lower walls of the runway being at right angles to the rear wall and uniformly spaced apart, whereby descending

coins slide against the rear runway wall and roll down the lower runway wall, said lower runway wall having a coin exit slot at the lower end thereof adjacent the rear runway wall and



of a width permitting passing of a single coin only, said runway having an upwardly slanting portion beyond the exit slot for receiving coins overpassing the exit slot.

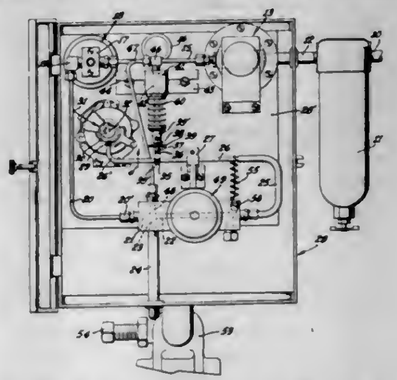
2,642,074
WALKING APPLIANCE
Howard L. Pedley, Hilda C. Pedley, and Carl E. Balluff, Des Plaines, Ill.
Application April 16, 1949, Serial No. 87,942
3 Claims. (Cl. 135—45)



1. An appliance of the character described comprising an upright member having a hand grip thereon, a transverse member having open ends and fixed to the lower end of said upright member, a substantially V-shaped member having inturned ends received in said open ends so as to be pivotally associated with said transverse member and forming therewith a substantially triangular base adapted to rest on a supporting surface, and means for selectively securing said V-shaped member in extended position to rest on a supporting surface or in collapsed position.

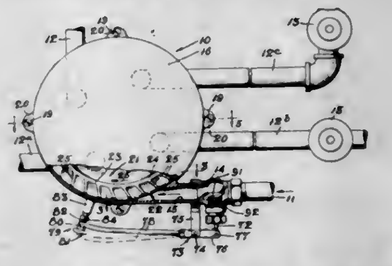
2,642,075
APPARATUS FOR RELAYING A CONTROL FUNCTION THROUGH COMPRESSED AIR
Jud E. White, Long Beach, Calif., assignor to Martin-Decker Corporation, Long Beach, Calif., a corporation of Delaware
Application August 15, 1949, Serial No. 110,249
1 Claim. (Cl. 137—85)

In an apparatus for relaying a control function through compressed air, the combination of: a rotary member subject to rotational changes in position, said member having a cam face thereon the altitude of which, opposite a given point, varies uniformly with said changes in position; a tubular nozzle arm having a nozzle on the end thereof disposed at right angles to said arm; means for pivotally mounting said arm to permit said nozzle to swing about said mounting to bring said nozzle into closely spaced relation with said cam face at said point; spring means applied to said arm to resiliently bias said nozzle toward said cam face; a bellows; means for mounting said bellows on an axis substantially at right angles to said arm, yet permitting adjustment of said bellows in a direction parallel with said arm; an impact block mount-



ed on said arm and adjustable lengthwise thereon; adjustable means provided on the free end of said bellows and positioned to engage said impact block to place said bellows in opposition to the bias imposed on said arm by said spring means, said adjustable means being adapted to vary the distance from said bellows to the point at which said means engages said block; manifold means for enclosing a body of air and placing said body of air simultaneously in communication with said tubular nozzle arm and said bellows; and means for supplying air to said body of air at a substantially uniform rate which is less than the maximum capacity of said nozzle to discharge air from said body.

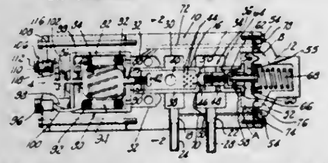
2,642,076
METERING AND TIMING CONTROLLER FOR SPRINKLING SYSTEMS
Clyde R. Tigert and Donald E. Finnicum, Upland, Calif.
Application November 21, 1950, Serial No. 196,801
11 Claims. (Cl. 137—119)



1. A controller for a sprinkling system having a plurality of branch sprinkler lines and a common source of water supply therefor, comprising

a housing defining a flow chamber, said housing having an inlet and a plurality of outlet ports communicating with the respective branch lines, a shutoff valve for establishing communication between said supply line and said inlet, means biasing said valve toward closed position and normally closing the same, an operating member for said valve, holding means extending through the wall of said housing, having an external part for coaction with said operating member for normally holding said shutoff valve releasably open, said holding means including a trigger extending into said flow chamber, a distributor valve adapted to successively establish communication between said flow chamber and each of said outlet ports in rotation, while cutting off the remaining outlet ports, means rotatable within said housing for engaging said trigger to actuate said holding means to release said operating member for effecting closing of said shutoff valve, and means actuated by a stream of water entering said flow chamber through said inlet and having a common drive connection to said trigger actuating means and said distributor valve for rotating the same through one complete revolution in which water from said flow chamber is delivered successively to each of said branch lines and in which said trigger is actuated to effect the closing of said shutoff valve upon completion of delivery of water to the last of said branch lines.

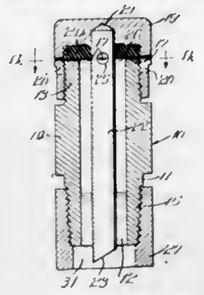
2,642,077
VALVE
Herbert C. Waterman, Chicago, Ill., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 8, 1948, Serial No. 1,139
12 Claims. (Cl. 137—117)



1. A fluid control device comprising a body, a bore in the body, inlet, outlet, and by-pass ports in the body in communication with the bore at different locations therein, valve means in the bore for controlling communication between the ports, said valve means including a sleeve with a passage in continuous communication with the inlet port, said sleeve being provided with a first opening communicating the interior thereof with the outlet port and a second opening communicating the interior of the sleeve with the by-pass port, said sleeve being arranged to rotate in the bore to control the first opening and to slide in the bore to control the second opening, means connecting the sleeve for rotation, and means connecting the sleeve for sliding motion including a device sensitive to an increase in pressure differential between the inlet and outlet ports to effect an increase in the area of the second opening.

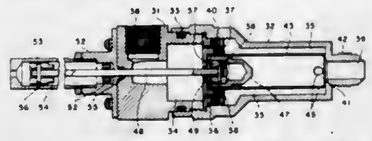
2,642,078
AUTOMATIC HYGROSCOPIC AIR VENT VALVE WITH CAPILLARY DRAIN TUBE
William J. Woolley, Chicago, Ill., assignor to Maid-O'-Mist, Inc., a corporation of Illinois
Application November 16, 1949, Serial No. 127,683
7 Claims. (Cl. 137—197)

4. An air and gas venting valve for hot water heating systems and the like, comprising: a substantially tubular body including an annular, substantially radially grooved valve seat at one end thereof, a cap on said one end of said body, a water expandable washer interposed between said cap and said valve seat, and means for adjusting the position of said cap relative to said



one end of said body, whereby the clearance between said washer and said valve seat may be set; the grooves in the grooved valve seat being shallow in comparison with the thickness of the washer and wide in comparison with the depth of the grooves.

2,642,079
HYDRAULIC SHUTOFF VALVE
Herbert W. Wishart, University City, Mo., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application January 8, 1947, Serial No. 720,697
6 Claims. (Cl. 137—219)

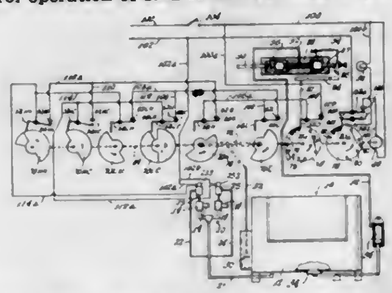


1. An automatic shut-off valve comprising a cylinder having a piston fitted thereto for sliding, an outlet at one end of said cylinder comprising a valve seat coaxial with the cylinder, a valve on said piston engageable with said seat, the valve and seat diameter being less than that of said cylinder, said cylinder toward the outlet end thereof having an inlet opening from the cylinder exterior to the cylinder interior whereby when said valve is off its seat fluid may flow through said inlet openings to said outlet; a piston rod extending from said piston through the other end of said cylinder, means providing a restricted inlet opening to said other end of the cylinder, and means for feeding both said inlet openings with pressure fluid.

2,642,080
CONTROL MECHANISM FOR COMMERCIAL LAUNDRY MACHINES
Robert L. Fitzgerald, New Britain, Conn., assignor of one-half to Hart A. Stoddard, Westport, Conn.
Application September 16, 1950, Serial No. 185,250
7 Claims. (Cl. 137—387)

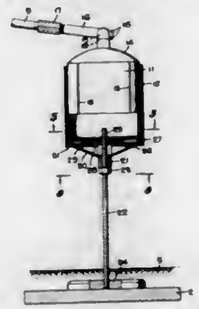
1. For use with a laundry machine having a water filling valve, electromagnetic operating means therefor, a water level sensing float and a dump valve: a control device comprising a timer; a shaft driven by said timer; a control circuit in-

cluding two groups of switches for controlling said electromagnetic means; means on said shaft and rotatable therewith for controlling the switches of one of said groups; means connected with said float for controlling the switches of the other group; a first cam means on said shaft; pneumatic means operated by said cam means for opening said dump valve; a dump switch series connected in said control circuit and operated by said cam means to prevent water filling control operation of said control switches when said dump valve is open, and to permit filling control operation of said control switches in accord-



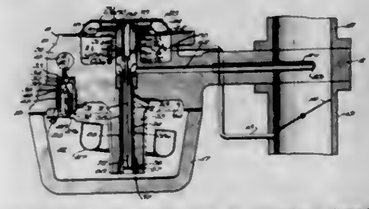
ance with the control of said shaft-mounted means when said dump valve is closed; a second cam means on said shaft; and stop means for arresting said timer operated by said second cam means, said first and second cam means being so related angularly about the shaft that the first cam means opens and closes the dump switch and provides a slight time lag before the second cam means operates the stop means, whereby stopping of the timer occurs just after the dump valve has reclosed after being opened and the water filling valve has been actuated to refill the laundry machine with water.

2,642,081
FLOAT MECHANISM FOR CONTROLLING FLUSH TANK VALVES
Stover C. Winger, Los Angeles, Calif., assignor of fifteen per cent to John Flam, Beverly Hills, Calif.
Application May 8, 1951, Serial No. 225,162
10 Claims. (Cl. 137—416)



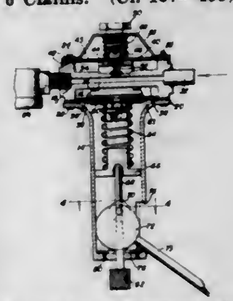
1. In a float mechanism for controlling an inlet valve for a tank: a hollow buoyant operating member having an opening in its lower wall; a casing having an aperture in the bottom, the member being in the casing; a vertical support for the casing adjustably mounted on said casing, said casing and said support being so related that in some adjusted positions the support extends through the bottom of the casing and into the opening in the buoyant member; and means preventing ingress of liquid through the bottom of the casing when the member is in its lowered position.

2,642,082
SUPPLEMENTAL FUEL FEED DEVICE
David E. Anderson, Richard A. Kolonick, and Willard Raymor, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 27, 1949, Serial No. 95,828
2 Claims. (Cl. 137—480)



1. In a fuel feed device, a housing having a well extending inwardly from the outer surface thereof, an internal fuel flow passageway and an opening between said well and said fuel flow passageway; a diaphragm extending across said well with the outer surface thereof subjected to atmospheric pressure and with the inner surface thereof together with said well defining a vacuum chamber; a valve member having one end slidably disposed in said opening with the other end thereof extending through and attached to said diaphragm; and means on said valve member controlling fuel flow through said passageway; said valve member having an external groove therein extending all the way around the periphery of and disposed in the portion thereof which is disposed in said opening; and said member also having an internal passageway communicating with said groove and extending to said other end of said member to vent said groove to the atmosphere irrespective of the position of said valve member to thereby prevent flow of fuel from said fuel passageway into said vacuum chamber.

2,642,083
PRESETTING AND QUICK OPERATING VALVE REGULATOR CONTROL
Cole Y. Strong, Albuquerque, N. Mex.
Application January 24, 1950, Serial No. 140,247
6 Claims. (Cl. 137—495)



1. A quick operating metering valve assembly comprising a valve casing, an inlet and an outlet

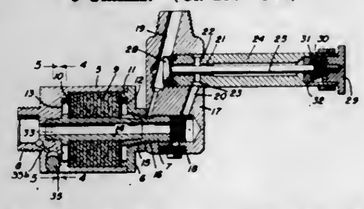
in said casing, a valve controlling said inlet, an eccentric mounted on said casing and having a handle extending to the exterior of the casing, and means operatively connecting said eccentric with the valve, said eccentric having an over-center action and being adapted to hold said valve in one position after the handle has been shifted to a corresponding position, said means being adjustable for presetting the valve opening and including a spindle adjustable with reference to and shifted by said eccentric to move the valve in one direction, and a spring mounted with reference to said valve to bias the valve in the opposite direction, said eccentric comprising a pair of parallel coaxial disks secured to said handle, a nut mounted to and between said disks for rotation about an axis transversely and eccentrically disposed with reference to said disks, said spindle being threaded into said nut, said disks bearing against a portion of said casing so that said nut and spindle are urged alternatively in two directions, and a yieldable connection between said spindle and said valve.

2,642,084

GAS PILOT LIGHTER

Walter T. Lynch, Collinsville, Conn., assignor to Lynch Brothers, Inc., Pine Meadow, Conn.

Application January 5, 1949, Serial No. 69,393
6 Claims. (Cl. 137—544)



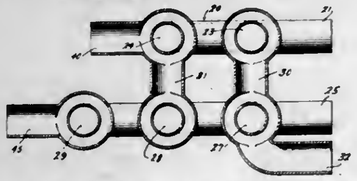
1. A gas pilot light control comprising a casing provided with a filter chamber having a filtering element therein for gas passing therethrough, said chamber having a member therein constituting a passage extending centrally therethrough by-passing the filtering element, a fitting connected to the casing at the inlet side of said chamber and having an uninterrupted passage leading to the filtering element and a second passage leading to the by-pass passage of the chamber, and a push-button operated valve arranged in controlling relationship with said last-named passage.

2,642,085

FLUID CONTROL MEANS

Peter Eduard Geldhof and Luther Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation, a corporation of New York

Application February 8, 1947, Serial No. 727,390
8 Claims. (Cl. 137—565)



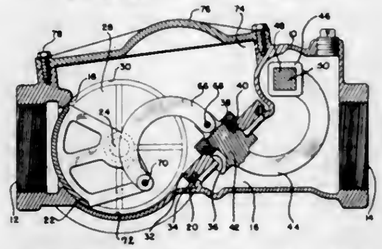
1. In a fluid transfer unit selectively operable to transfer fluid through a plurality of paths, a pump, two fluid conduits, one leading to the suction end of said pump and the other leading from the discharge end of said pump, a plurality of cross-connections in a different plane from said two conduits, a plurality of open-ended riser conduits communicating between said conduits and said cross-connections and opening upwardly within said cross-connections and spaced inwardly from the walls thereof, and separate valve means selectively operable to close the open ends of said open-ended riser conduits.

2,642,086

LOADING VALVE AND METHOD OF CONTROLLING FLUID FLOW

Robert M. Conklin, Columbus, and Harold W. Herring, Linworth, Ohio, assignors, by mesne assignments, to Buckeye Iron & Brass Works, Dayton, Ohio, a corporation of Ohio

Application February 21, 1950, Serial No. 145,352
3 Claims. (Cl. 137—630.14)



1. In a valve: a valve body comprising a chamber defining a flow passage therein, said chamber having inlet and outlet openings at opposite ends thereof, a first valve seat at said inlet opening and a rotary valve means mounted in said chamber adjacent said seat for movement into seating engagement therewith, a second valve seat centrally positioned in said chamber and angularly disposed relative to the direction of flow through said chamber, a clapper valve in said chamber adjacent said second valve seat for movement into seating engagement therewith, a central opening in said clapper valve and a disk for closing said central opening, means for simultaneously opening and closing each of said valves relative to their seats comprising a link located within said chamber and pivotally connected to said rotary valve and to said disk, said pivoted connections lying on a line substantially parallel to the plane of said second valve seat when said disk is in said closing position, and further link means in said chamber rigidly connected to said disk and operable from outside said chamber to initiate movement of said valves, said clapper valve being mounted on said further link and being slidable relative to said disk.

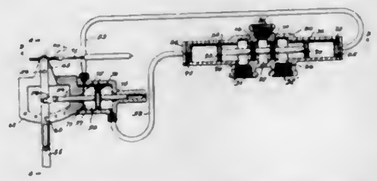
2,642,087

VALVE MECHANISM

Niels A. Christensen, South Euclid, Ohio

Original application July 14, 1943, Serial No. 494,749, now Patent No. 2,501,661, dated March 28, 1950. Divided and this application February 20, 1948, Serial No. 9,889
7 Claims. (Cl. 137—637)

1. In a valve mechanism, the combination of a cylinder having three recesses therein arranged in a row and each communicating with the exterior, a multiple piston member in the cylinder having two pistons adapted to stand respectively between the first recess and the second recess and between the second recess and the third recess, and having two end pistons respectively beyond the first and third recesses, means for forcing operating fluid into the end portions of the cylinder to operate the piston member, means providing a chamber communicating with the



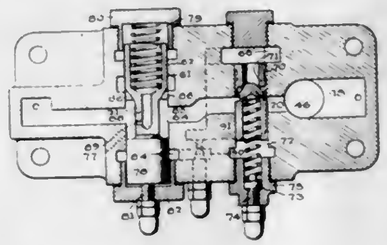
first and third recesses and having a valve seat between the regions of such communication, a valve member adapted to open and close communication through the valve seat, a spring tending to maintain the valve member seated, and means serving the double purpose of holding the valve open and locking in neutral position the means for forcing operating fluid to the cylinder.

2,642,088

FLOW CONTROL VALVE

Hall Kirkham, Cleveland, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey

Original application April 17, 1944, Serial No. 662,839. Divided and this application October 13, 1948, Serial No. 54,279
5 Claims. (Cl. 137—679)



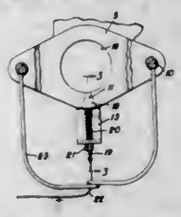
1. A flow control valve of the type described, comprising a housing having a bore; means closing the ends of the bore; a duct intersecting said bore; a plunger having spaced lands and an intermediate groove movable in said bore between limits with said groove and duct in communication; a passage intersecting said bore and substantially closed by one of said lands when the plunger is at one of its limits; a spring to so position the valve plunger; means to introduce high pressure liquid into said bore at the end opposite said last mentioned land to move the plunger against said spring and further open said passage to said groove; and passage means in said plunger from the bore beyond the last mentioned land to said groove to afford a dashpot action therefor.

2,642,089

AIR CONTROL VALVE FOR CARBURETOR GASKETS

Cleve F. Christie, Knoxville, Tenn., assignor of twenty-five per cent to Dovie A. Harrison, Knoxville, Tenn.

Application May 23, 1949, Serial No. 94,834
2 Claims. (Cl. 137—735)



1. A gasket comprising a flat split ring-like body, said split forming an air inlet in one side of the gasket extending from the inner to the outer edge thereof, the edges of said split converging relatively inwardly of the gasket and forming the sides of the inlet and a valve seat tapering inwardly of said gasket, a U-shaped bracket projecting outwardly from the outer edge of the gasket adjacent said inlet and having its inner end leg depending from the gasket at the outer end of the inlet, said bracket having a slot in its outer end leg, a flat tapering valve head fitting in said inlet with side edges seating against said valve seat, said valve and gasket being of uniform thickness, said valve head slidably resting on said inner end leg for sliding movement thereon to open said inlet, a valve stem on said valve head slidable in said outer end leg slot for guided movement to slide said valve head outwardly of said seat, a coil spring on said stem interposed between said valve head and said outer end leg of said bracket to tension said valve head against outward movement.

2,642,090

DIAPHRAGM ASSEMBLY AND METHOD OF MAKING SAME

John M. Barr, West Hartford, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application November 16, 1946, Serial No. 710,346
12 Claims. (Cl. 137—791)



1. A pressure responsive diaphragm assembly for use in contact with a liquid fuel for internal combustion engines, comprising a thin, highly flexible rubber-impregnated fabric diaphragm preformed with a relatively deep convolution and soaked in the liquid which it is to contact in use and allowed to swell and otherwise assume the contour it will have in use, a pair of rigid reinforcing discs attached to the opposite sides of a central circular portion of said diaphragm, and a pair of rigid reinforcing annular members attached to a peripheral annular portion of said diaphragm spaced from said central portion while said diaphragm is still substantially saturated with said liquid, so that said diaphragm will not be stressed when placed in service by deformation thereof due to wetting with said liquid.

2. The method of constructing a flexible diaphragm assembly, for use in contact with a

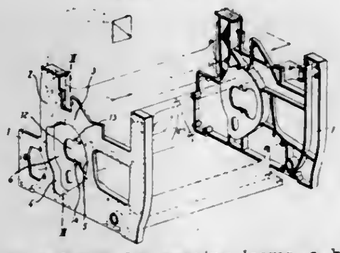
liquid fuel for internal combustion engines, comprising the steps of soaking in said liquid a thin, highly flexible, preformed, rubber-containing diaphragm consisting of a flat, central, circular portion and a flat, annular peripheral portion, joined by a deep convolution, clamping each of said flat portions of said diaphragm between spaced, rigid reinforcing members while it is still substantially saturated with said liquid, and drying said assembly of diaphragm and reinforcing members, so that said diaphragm will not be stressed when placed in service by deformation thereof due to wetting with said liquid.

2,642,091
ELASTIC DIAPHRAGM
Alexandre Henri Morin, Montlucon, France
Application December 19, 1947, Serial No. 792,771
In France January 3, 1947
6 Claims. (Cl. 137—793)



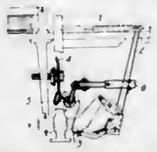
1. A device for producing displacements through pressure-variations in a fluid, comprising a fixed rigid member, a second rigid member movable with respect to said fixed member, flexible, substantially inextensible thread-like elements and an elastic fluid-tight sleeve-like enclosure extending lengthwise of, and surrounding the thread-like elements in juxtaposed concentric relationship, said thread-like elements being connected throughout their length with said sleeve-like enclosure, the respective ends of said thread-like elements and said sleeve-like enclosure being stretched between, and attached to said respective rigid members, one of said rigid members having a duct communicating with the interior of the enclosure for varying the pressure of fluid therein, whereby said movable member will be displaced as a result of the variations in effective length of said thread-like elements due to the flexure thereof in response to pressure variations in the fluid within said enclosure.

2,642,092
FRAME CONSTRUCTION FOR WEAVING LOOMS
Jaime Picanol, Zandberg, Zillebeke-lez-Ypres, Belgium
Application September 27, 1951, Serial No. 248,616
In Belgium April 27, 1951
2 Claims. (Cl. 139—1)



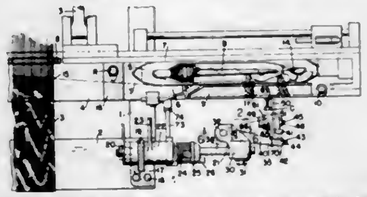
1. In a frame for weaving looms, a housing having an inner wall facing on the inside of the loom, two main ribs directed internally and substantially oriented in the direction of the main stresses on the frame, secondary ribs also directed internally and cooperating with said two main ribs so as to define the lateral walls of said housing, a bushing on said inner wall for supporting a bearing for a picking shaft and serving also as a screen between the members inside the housing and the textile material on the loom, one of the main ribs extending vertically downward from the top of the frame and thereafter, profiled to form at least one curve having its concavity directed upwardly, the other main rib cooperating in the formation of the housing extending from the upper part of the first rib as an inclined stub extended by a curved portion having its concavity directed downwardly, said two main ribs being connected together by said secondary ribs to define in a continuous manner the lateral wall of the housing.

2,642,093
PICKING SHAFT FOR WEAVING LOOMS
Jaime Picanol, Zandberg, Zillebeke-lez-Ypres, Belgium
Application September 27, 1951, Serial No. 248,605
In Belgium February 16, 1951
2 Claims. (Cl. 139—147)



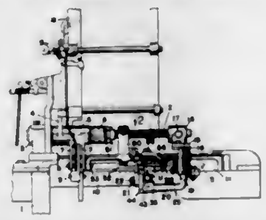
1. As an improvement in weaving looms having a picker stick and a lug strap therefor, a picking shaft, an end portion of said picking shaft being bent back over itself, a crank pin depending from said end portion for connecting with the picker stick through the lug strap, said crank pin being inclined and offset with respect to the longitudinal axis of the picking shaft.

2,642,094
THREAD CUTTER FOR LOOMS
Clifford Darwin, Paxton, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application August 22, 1951, Serial No. 243,029
9 Claims. (Cl. 139—267)



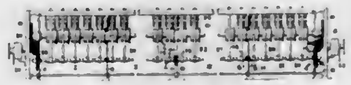
1. In thread cutting mechanism for a bobbin-changing loom having a lay and wherein a thread to be cut extends along the lay, a carrier normally in forward position in front of the lay, a thread cutter blade fixed with respect to the carrier, a pivot on the carrier, a second cutter blade movable angularly on said pivot, means normally holding the pivoted blade in open position, an actuator lever mounted for pivoted movement relative to the carrier and having an operating arm, means effective on a bobbin-changing operation of the loom to move the carrier rearwardly and move said operating arm into the path of the advancing lay, the lay thereupon engaging said operating arm and causing pivoted movement of the actuator lever, and operative connections between the actuator lever and said second cutter blade effective due to said pivotal movement of the actuator lever to move said second blade to closed position to cut said thread, said operative connections being loose to permit lateral movement of the actuator lever relative to the second cutter blade incident to engagement of the operating arm by the lay.

2,642,095
THREAD CUTTER
Carl P. Bergstrom, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application August 30, 1951, Serial No. 244,372
8 Claims. (Cl. 139—267)



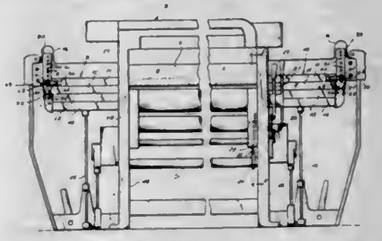
1. In thread cutting and clamping mechanism for a weft replenishing loom in which a thread extending along a shuttle is moved forwardly on a lay on a weft replenishing operation of the loom, an actuator member having a reciprocating motion incident to a weft replenishing operation of the loom, a normally closed thread cutting and clamping unit mounted for back and forth motion, means operated by the actuator member causing said unit to have a rearward movement followed by a forward movement on a weft replenishing beat of the loom, opening means effective during the first part of said rearward movement of the unit to open the latter, and closing means stationary during the latter part of said rearward movement of the unit cooperating with the latter and effective due solely to said rearward movement to close the unit to cut and clamp said thread between the ends of the shuttle, said opening means being ineffective to open said unit on the forward movement of the latter.

2,642,096
CLOTH ROLL MOUNTING FOR NARROW WARE LOOMS
Elbridge R. Holmes, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 10, 1950, Serial No. 155,110
6 Claims. (Cl. 139—304)



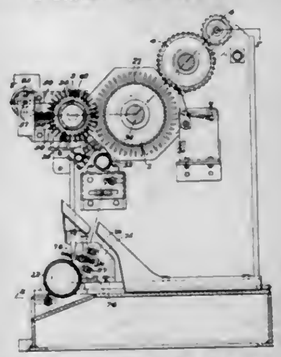
1. In cloth roll mounting means for a narrow ware loom, a frame intermediate the ends of the loom having a bearing therein the axis of which extends lengthwise of the loom, a pair of aligned cloth roll shafts, a saddle bearing, one on each side of the frame, a gudgeon on each saddle bearing extending into said bearing in the frame, each saddle bearing receiving one of said shafts, and means between the ends of the shafts securing said saddle bearings together.

2,642,097
CONTROL MECHANISM
Orell Wright, Spindale, N. C., assignor to Charles Rosenstein, Paterson, N. J.
Application January 4, 1950, Serial No. 136,734
4 Claims. (Cl. 139—336)



1. In combination, a loom having shuttle boxes shiftable in unison within guides and relative to a shuttle race between said boxes to effect pre-established shuttle operation over said race; a stop motion for arresting operation of said loom and including a solenoid for rendering said stop motion effective, and control means correlated with said boxes and including an electrical circuit connected to said solenoid and energizable upon relative shifting of said boxes for rendering said solenoid effective, said control means including contact members carried by said boxes and guides and connected within said circuit and with the members carried by said boxes being engageable with the members carried by said guides for closing said circuit upon relative shifting of said boxes for energizing and rendering said solenoid effective.

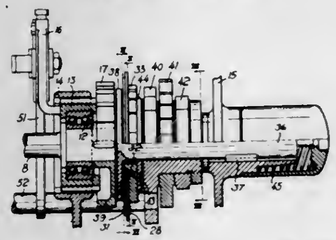
2,642,098
MACHINE FOR MAKING WIRE FABRIC
Albert L. Stoeckel, Euclid, Ohio, assignor to Wean Equipment Corporation, Euclid, Ohio, a corporation of Ohio
Application March 31, 1949, Serial No. 84,533
1 Claim. (Cl. 140—6)



In a machine for making wire fabric having a plurality of twisting means, mounting means carrying the twisting means, means moving the mounting means to advance the twisting means one after another, means periodically turning the twisting means to twist wires together and make wire fabric, means forming slack in the wires as they enter the twisting means, which slack is taken up by the twisting of the wires, whereby the wires are advanced at non-uniform speed, guide means for guiding the wires in their

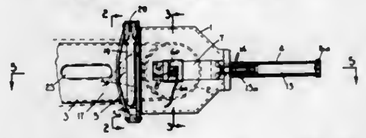
path to the twisting means, capstan means about which the wires are wrapped for pulling the wires from a source of wire in their path to the guiding means, means for driving the capstan means at a speed at least as great as the greatest speed at which the wires are advanced at the twisting means, the capstan means frictionally engaging the wires so as to advance the wires when the wires are taut on the exit side of the capstan means, the capstan means also at times having a tendency to advance the wires through friction of the wires against the capstan means and friction of wraps of the wires against one another even when the wires are not taut on the exit side of the capstan means and thereby to dislodge the wires from proper guided relationship with the guiding means, and an overfeed preventer disposed in the path of the wires between the capstan means and the guiding means, the overfeed preventer comprising means frictionally engaging the wires to loosen the wires on the capstan means when the wires are not taut on the exit side of the capstan means and thereby obviate the tendency to dislodge the wires from proper guided relationship with the guiding means and insure advancing the wires only when the wires are taut on the exit side of the capstan means.

2,642,099
CARD SETTING MACHINE
André Heinrich Schaub, Brodalen, Sweden
Application September 23, 1948, Serial No. 50,805
In Sweden September 25, 1947
1 Claim. (Cl. 140—99)



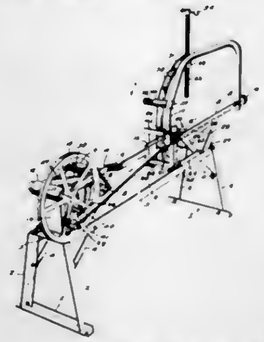
In a card setting machine of the class described including a holder in which the card clothing is intermittently movable, so as to provide staple spacing steps, a feed screw threadedly connected to said holder, a ratchet wheel secured to said feed screw, two sets of oppositely directed teeth on said ratchet wheel, said sets being separated by interrupted portions, two reciprocating pawls for the two sets of teeth of said ratchet wheel for effecting said staple spacing steps, two cams constructed and arranged to move said pawls alternatingly out of engagement with the appertaining set of teeth, a fixed shaft in axial alignment with said feed screw, said two cams being rotatably mounted on said shaft, means for rotating said cams half a revolution during the time between the first step of said ratchet wheel in one direction and the first step thereof in the opposite direction, means for performing staple row displacement steps, said means comprising a third cam having a plurality of arc-shaped cam faces, said third cam being mounted for rotation on said fixed shaft, a lever constructed and arranged to be actuated by said third cam, means for transferring the movements of said lever into axial movements of said feed screw for performing the staple row displacement steps, a feed roll for moving the card clothing longitudinally thereof, a second lever constructed and arranged to impart intermittent rotation of said feed roll, a disc mounted on said shaft and connected with said third cam, said disc having radial projections adapted to act upon said second lever, the number of said projections being equal to the number of cam faces on said third cam, and means adapted during each half revolution of said two cams to rotate said third cam and said disc through an angle of 360° divided by the number of differently offset staple rows to be set in the card clothing.

2,642,100
REMOVABLE HANDLE ASSEMBLY FOR POWER CHAIN SAWS
Alan Thomas Quirke, Otunui, New Zealand
Application March 15, 1948, Serial No. 14,899
In New Zealand February 12, 1948
9 Claims. (Cl. 143—32)



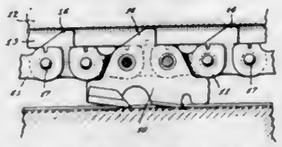
8. A handle assembly for the guide bar and idler wheel of a power chain saw comprising a main housing and clamping means secured on the end of the guide bar by means of which the handle assembly is attachable to and quickly releasable from the guide bar, means in the main housing for rotatably supporting the idler wheel and for releasing the handle assembly from the idler wheel when the handle assembly is removed from the guide bar, and releasable locking means operatively connected to the second-mentioned means to adjust the idler wheel to tighten the saw chain, said second-mentioned means for rotatably supporting the idler wheel including a removable axle for the wheel and a spring-loaded catch means comprising two oppositely disposed pivoted catches at opposite sides of the axle to grip the latter and hold the axle in the second-mentioned means.

2,642,101
POWER BUCK SAW
Ralph P. Kipp, Ossining, N. Y.
Application August 7, 1950, Serial No. 177,995
1 Claim. (Cl. 143—63)



In a power driven buck saw of the type having a frame, a drive wheel mounted on the frame to rotate about a horizontal axis, an elongated guide bar mounted adjacent one end adjacent the drive wheel for movement in a vertical arcuate path about the horizontal axis, a slide mounted on the guide bar for reciprocal movement thereaiong, a pitman connected to the drive wheel and to the slide for reciprocating said slide when the wheel is rotated, a saw blade carried by the slide for reciprocal movement therewith, and an electrically powered drive motor mounted adjacent the drive wheel and having driving connection therewith, means for arresting the reciprocation of the saw blade when it attains a predetermined position below the horizontal axis, said means comprising an electrical make and break switch carried by the motor and in circuit therewith for establishing or interrupting the flow of electrical energy thereto, a lever mounted adjacent the motor for movement in a vertical arcuate path, a link carried by the lever and connected to the switch for throwing the switch and establishing the flow of electrical energy through the motor when the lever is raised, a screw adjustably carried by the guide bar and movable therewith in a path which intersects the path of movement of the lever for engaging the lever and depressing it to move the switch into a position to interrupt the flow of electrical energy to the motor, and a stop screw adjustably carried by the lever for movement therewith into engagement with the frame for relieving the switch from strain when the lever is depressed.

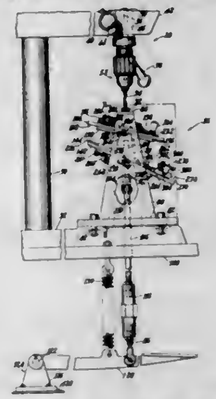
2,642,102
CHAIN SAW LINK
Edwin T. Dunnington, Indianapolis, Ind.
Application June 3, 1952, Serial No. 291,446
4 Claims. (Cl. 143—135)



1. In a chain saw having a chain including links each comprising a pair of side plates provided adjacent their ends with aligned holes receiving transverse pins pivotally connecting said side plates to adjacent chain links, a cutter bar, said side plates having at their edges opposite said holes bearing faces engaging said cutter bar, each side plate having between each hole and the adjacent bearing face an opening spaced from such hole.

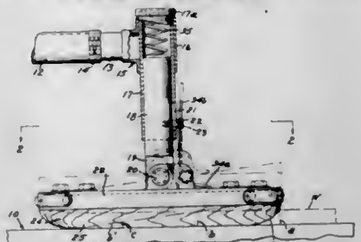
2,642,103
HEEL DRILLING MACHINE
John W. Ashley and James F. Leahy, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 26, 1949, Serial No. 123,614
12 Claims. (Cl. 144—93)

8. In a heel drilling machine, a pair of platens which are pivoted for movement about parallel axes and which have surfaces constructed and arranged to be engaged respectively by the tread face and the rim of the attaching face of a heel, a drill rotatable about an axis which lies in the plane of said axes and is disposed at right angles to said axes, side gages on the one hand and breast and back gages on the other hand independently movable along said surface of one of said platens, springs for urging the side gages on the one hand and the breast and rear gages on the other hand toward each other to orient the tread end of the heel on said surface of said one platen, means for effecting relative translatory movement of the platens to effect forced engagement between the tread face and the rim of the attaching face of the heel and said surfaces respectively of the platens, breast and rear gages slidingly mounted for movement toward and away from each other upon the other of said platens, a spring for constantly urging said breast and rear gages of said



other platen away from each other, manually actuated means for moving the breast and rear gages of said other platen toward each other against the action of said last-named spring to centralize the attaching face of the heel on said surface of said other platen, a clutch for locking said manually operated means against movement to secure said breast and rear gages in their heel centralizing positions upon said other platen, and means for moving the drill in a rectilinear path extending lengthwise of its axis to form in the heel a passage extending lengthwise of the heel thus positioned and clamped.

2,642,104
CUTTERHEAD GUARD FOR VERTICAL SPINDLE SHAPERS
William E. Brown, Santa Ana, Calif.
Application April 11, 1950, Serial No. 155,339
1 Claim. (Cl. 144—251)



In a guard structure for the cutting head of a vertical spindle shaper, an annular member of wood or the like to rest upon the work table of the shaper in encircling relation with respect to the cutting head, a supporting arm extending horizontally above the work table, a tubular guide carried at the inner end of the arm, a cap closing the top end of the guide, a post telescoped in the

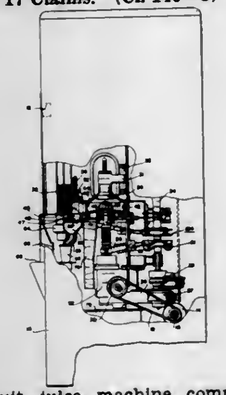
lower end of the guide, a pivot connection between the lower end of the post and the top side of the annular member, an expansion spring housed within said guide above said post and acting to press the annular member into contact with the surface of the work table and oppose any upward movement of the post and member, a second spring mounted on said annular member at one side of the pivot connection of said post to bias the forward side of the annular member against any tendency to rise from its contact with the surface of the work table, the said tubular guide having a vertical slot adjacent its lower end, and a guide pin projecting outward through said slot from said post and having a vertical aperture in its outer end, said second spring having a vertical portion passing upward through said aperture for sliding movement therein during the rise of the annular member caused by the feed of the work to the cutting head.

2,642,105
DRIVING TOOL FOR EYE-SCREWS
Joseph H. Alliano, Santa Ana, Calif.
Application January 22, 1952, Serial No. 267,569
2 Claims. (Cl. 145—50)



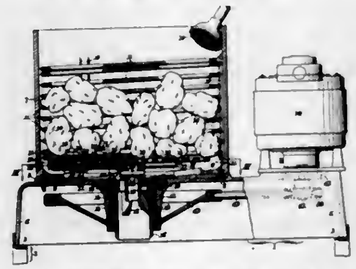
1. In a tool for driving eye-screws and like articles, a body having a groove bifurcating a portion of said body and having a second and deeper groove intersecting said first-mentioned groove; the walls of said first-mentioned groove being convergent adjacent the bottom of said groove to grip an article disposed in said groove at positions on opposite sides of said second groove, the bottoms of said first-mentioned groove at said positions being substantially normal to radii of a circle having its center within said first-mentioned groove in the plane of said intersecting groove.

2,642,106
FRUIT JUICE EXTRACTION MECHANISM
Edward J. Coffey and Paul E. Fischer, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
Application December 22, 1950, Serial No. 202,325
17 Claims. (Cl. 146—3)



12. A fruit juice machine comprising fruit holding means, reaming means, means for causing relative movement of the holding means and reaming means for removal of pulp and juice from a piece of fruit in the holding means, a housing having a pressing chamber, means feeding the pulp and juice from the reaming means into the pressing chamber, a plunger movable in the chamber, a wall at one end of the chamber against which the plunger compresses the pulp, a cleaning member movable across the wall to remove the pulp, a power source, and driving means connecting the power source to the cleaning member, to the plunger, and to said means for causing relative movement, for operation of the machine in timed sequence to first ream the fruit, then press the pulp and finally actuate the cleaning member.

2,642,107
MACHINE FOR SKINNING VEGETABLES AND THE LIKE
Garfield J. Edmonds, Philadelphia, Pa.
Application December 20, 1949, Serial No. 134,013
4 Claims. (Cl. 146—50)

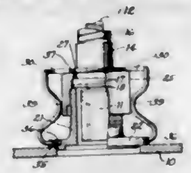


1. In a vegetable or fruit skinning machine including a treating receptacle having, at circumferential intervals of its interior surface vertical ribs, preferably of semicircular cross-section; the combination of a retainer cylinder, for the vegetables or fruit, concentrically journaled in the treating receptacle; said retainer cylinder, preferably, being in the form of a continuously convoluted wire to provide an open-wall cylinder with a flat spiral bottom for holding the vegetables or fruit during the skinning cycle, such cylinder being spacedly supported concentrically within the treating receptacle by engagement of its convolution within notches in the aforesaid ribs; and said convoluted open-wall cylinder, as well as the flat spiral bottom, being roughened as by threading to effect the skinning operation.

2,642,108
SAFETY LOCKING DEVICE FOR NUTS
Edward C. Geistert, Grand Rapids, Mich., assignor to Lear, Incorporated, Chicago, Ill., a corporation of Illinois
Application December 4, 1950, Serial No. 198,937
3 Claims. (Cl. 151—59)

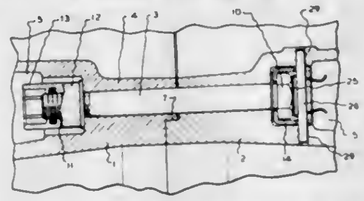
1. A device for releasably locking a nut in engagement with a threaded member and for detachably securing an element to said member, said nut having an axial opening for passage of said element therethrough and at least one pair of oppositely positioned flat surfaces on the periphery thereof comprising in combination, means for providing a pair of substantially diametrically disposed recesses in said threaded member, and a ball-like member of resilient material formed with two oppositely disposed leg

members and a connecting portion positioned between the ends of said leg members, the other ends of said leg members provided with inwardly directed parts for pivotally engaging said recesses, said connecting portion formed with a substantially U-shaped configuration for frictionally embracing said element, and each of



said leg members having an inwardly-deformed portion intermediate the ends thereof for contacting one of said flat surfaces of said nut when the ball-like member is rotated in said recesses to position the U-shaped configuration of the connecting portion in operative relation with said element.

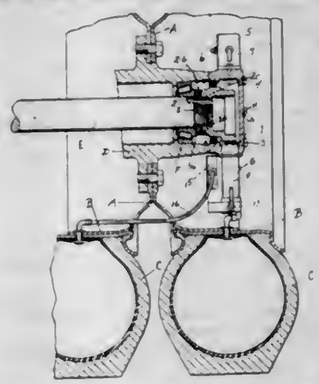
2,642,109
LOCKED BOLT
Charles Hollerith, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
Application December 11, 1947, Serial No. 790,945
2 Claims. (Cl. 151—62)



1. In combination with wheel structure having a hole defined therein to receive a bolt, a cavity defined in said structure into which said hole opens, a bolt in said hole having its head disposed in said cavity, of a socket member in said cavity in which said head is disposed and held against relative rotation, an opening defined in said structure and extending into said cavity, a locking member located in said opening and extending into said cavity, a portion of said socket engaged by said locking member to prevent rotation of said socket in said cavity, said locking member being in the form of a pin bridging said cavity, said opening being in the form of opposed holes defined in said structure in which said pin is disposed, and releasable locking structure disposed in said cavity and engaging with said pin to prevent unintentional axial displacement thereof.

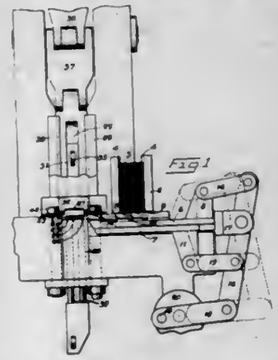
2,642,110
AUTOMATIC INFLATING DEVICE
George H. Connors, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a corporation
Application March 11, 1949, Serial No. 80,940
2 Claims. (Cl. 152—421)

1. In combination, a wheel, axle means supporting said wheel, a pneumatic tire on the wheel, an automatic pumping unit comprising a movable pumping member, an air conduit connecting the unit to the tire to supply inflating air to the latter, means mounting the said unit on the wheel to turn therewith, an instrumentality on the axle means to actuate the movable pumping member as the wheel rotates on the axle means, said



mounting means comprising a hub cap for an end of the axle means and housing said instrumentality, bearing means between the axle means and the wheel, and a lubricant seal between the bearing means and the pumping unit.

2,642,111
RAZOR BLADE BACKING MACHINE
William Bindszus, Rutherford, N. J.
Application February 23, 1946, Serial No. 649,641
1 Claim. (Cl. 153—1)



A razor blade backing machine comprising a press having a toggle operated main ram; an auxiliary holding ram being slidably operable in front of said main ram; a cam operated lever having one end in operable engagement with said auxiliary ram, said lever extending through an opening in said main ram; cam operated driving means engaging the other end of said lever, said driving means being coordinated with said main ram; a resilient spring supported anvil mounted under said auxiliary holding ram; a fixed anvil being located under said main ram; a coordinated feeding mechanism feeding one blade at a time into engagement with said auxiliary holding ram from one side; a positive rotary feeding mechanism coordinated with said rams feeding a back onto said blade from the rear

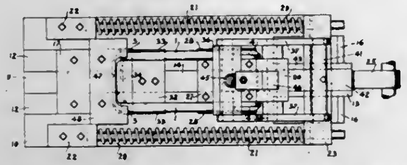
of said rams, said positive rotary feeding mechanism comprising a hopper chute containing a stack of backs, a pair of vertically journalled rotatable shafts located slightly to the rear of said main ram, each of said shafts having a disc near its upper end, said discs each having a notch engageable with the ends of said backs, said shaft being geared together and driven in opposite directions, said gearing being coordinated with the driving means of said rams, and a vertically moveable coordinated holding cam located between said discs, said cam having an inclined plane at its upper end whereby said backs are pushed against said blades and held securely in position while said main ram completes the fastening of said back.

2,642,112

APPARATUS FOR MAKING U-SHAPED BRAKE HANGERS

Frederic Schaefer, Pittsburgh, Pa., assignor to Schaefer Equipment Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 7, 1950, Serial No. 154,610
5 Claims. (Cl. 153—35)



1. Apparatus for stretching a U-shaped brake hanger blank having laterally spaced legs connected at one end by a yoke and having at their opposite end flattened portions of increased width lying in substantially parallel planes, said apparatus comprising a support, a bar slidable lengthwise thereon, a member mounted on the bar for engaging the inner surface of the yoke of said hanger when the hanger is laid on its side above the bar, a stationary clamping element mounted on the support behind said member and provided with depressions for receiving the lower parts of said flattened portions of the hanger, a rocker arm above the bar, means on said support pivotally supporting the arm on an axis transverse to the bar, a movable clamping element carried by the front end of the arm, and a cam carried by the bar behind the arm and adapted to lift the rear end of the arm while the bar is moving forward, whereby to press the movable clamping element down on the hanger before said member pushes the yoke far enough forward to stretch the hanger legs.

2,642,113

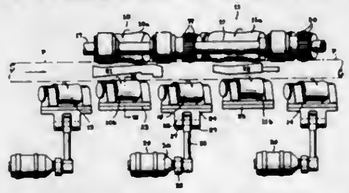
APPARATUS FOR STRAIGHTENING PIPE

Truman H. Kennedy, Elizabeth Township, Allegheny County, and Samuel Webb, Pleasant Hills, Pa., assignors to United States Steel Corporation, a corporation of New Jersey

Application June 16, 1948, Serial No. 33,358
2 Claims. (Cl. 153—48)

1. In a pipe straightener, two pairs of cross rolls in tandem adapted to turn a pipe on its axis while advancing it axially therebetween, a bending roll between said pairs of cross rolls and skewed similarly to one of the latter, a second bending roll beyond one pair of cross rolls and means for continuously advancing the bending rolls into engagement with the pipe and retracting them therefrom at a predetermined frequency.

2. In a pipe straightener, two pairs of cross rolls in tandem adapted to turn a pipe on its axis while advancing it axially therebetween, a bend-



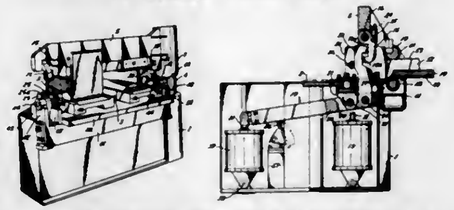
ing roll between said pairs of cross rolls and skewed similarly to one of the latter, and means for continuously advancing the bending roll into engagement with the pipe and retracting it therefrom at a predetermined frequency.

2,642,114

METAL FORMING PRESS

Cyril J. Bath, Chagrin Falls, and Robert J. Ebert, Euclid, Ohio, assignors to The Cyril Bath Company, Cleveland, Ohio, a corporation of Ohio

Application December 21, 1950, Serial No. 202,052
12 Claims. (Cl. 153—48)



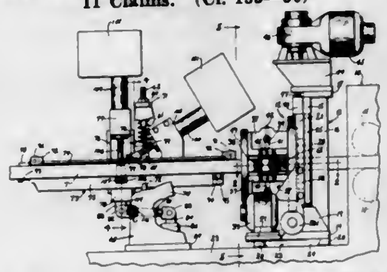
1. In a forming machine, a frame having an upwardly facing work bed adapted to accommodate a working tool, a ram adapted to carry a downwardly facing complementary working tool, means connecting one end of the ram to the frame and supporting and guiding the ram for movement along a generally upright lineal path from a position above the bed downwardly toward, and upwardly away from, the plane of the bed, latching means on the ram near the other end of the ram, said other end of the ram and its latching means normally being free and disconnected from the frame so as to afford access to the space between the bed and ram from the free end of the ram, tension applying means, including cooperable latching means near the free end of the ram, mounted on the frame for movement upwardly and downwardly relative to the plane of the bed and to a position in which it is spaced below the level of the ram and its latching means, when the ram is in a predetermined raised position, so as not to obstruct said access to the space between the ram and bed from said free end of the ram, said cooperable latching means of the tension applying means and latching means of the ram being engageable with, and disengageable from, each other, selectively, for latching the tension applying means and free end portion of the ram for movement together in a direction to move the ram toward the plane of the bed and for unlatching them for independent movement, and power means operatively connected to the tension applying means for moving the tension applying means and thereby said one end of the ram downwardly toward the plane of the bed.

2,642,115

STRAIGHTENING APPARATUS

Isadore J. Van Huffel, Warren, Ohio, assignor to Van Huffel Tube Corporation, Warren, Ohio, a corporation of Ohio

Application March 28, 1951, Serial No. 217,979
11 Claims. (Cl. 153—50)



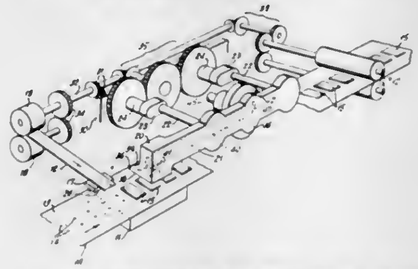
1. Straightening apparatus for use with a machine which continually processes and feeds elongated work, comprising: head means through which the work passes as it leaves said processing machine, said head means being shiftable transversely of the line of travel of said work; contact means positioned in the path of movement of said work and engageable with the work as the latter moves therepast, said contact means being supported for movement transverse to the line of movement of said work whereby it may follow any deviation from rectilinear formation of said work; and means affected by movement of said contact means for shifting said head means in proper amount and direction so that said head means acts on the moving work and corrects for deviation from rectilinear formation.

2,642,116

BANDAGE CUTTING AND ASSEMBLING MACHINE

Harland S. Fisher, Metuchen, and Gasper Paul Beck, Highland Park, N. J., assignors to Johnson & Johnson, a corporation of New Jersey

Application June 7, 1950, Serial No. 166,746
19 Claims. (Cl. 154—1.6)



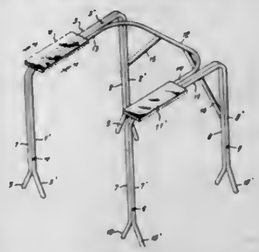
1. A bandage cutting and assembling machine comprising, in combination, means for advancing an adhesive bandage strip continuously endwise, means for advancing a gauze strip continuously endwise in a direction substantially at right angles to the direction of movement of the bandage strip, means for cutting the advancing gauze strip transversely into successive pads, and means for carrying the pads successively as they are cut onto the advancing bandage strip for attachment thereto in predetermined spaced relationship therealong.

2,642,117

PORTABLE ARMREST DEVICE

Henry Glauber, New York, N. Y., assignor of one-third to Max Falk, New York, N. Y.

Application November 30, 1950, Serial No. 198,383
7 Claims. (Cl. 155—1)



7. A portable arm rest device comprising a pair of side members each having a pair of legs rigidly connected to a substantially horizontal member and adapted to rest on a floor, and an arm rest on each of said horizontal members, the planes passing through said pairs of legs being substantially vertical and parallel to each other, a transverse member having forwardly extending arms at the rear of said side members, said arms cooperating with said side members providing a hinge arrangement whereby said pairs of legs may be folded together, and a latch extending between a leg and said transverse member adapted to maintain the ends of said legs on said floor, a holder at the under side of each arm rest, said horizontal member being secured to said holder and arm rest, said holder having a loop, the ends of said horizontal member being held in said loop for rotation relative to said legs, said latch when in locked position being diagonal with reference to said legs and transverse member and constituting a brace for holding said device rigid.

2,642,118

FURNITURE MADE OF STAMPED OR MOLDED MATERIAL AND ADAPTED FOR NESTING

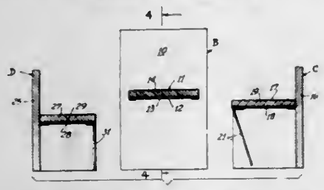
Clyde Chester Lamb, Milwaukie, Oreg.

Application November 29, 1949, Serial No. 129,966
In Great Britain February 23, 1949
2 Claims. (Cl. 155—2)



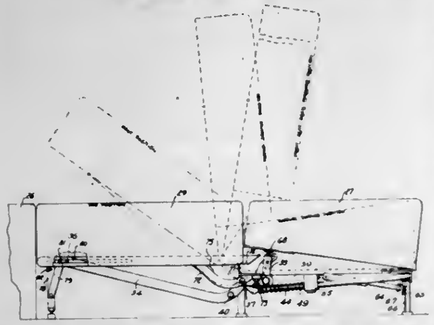
2. An article of furniture comprising a seat portion, a back rest, arms, and front and rear legs, said arms being formed from marginal portion of said back rest so as to reside each in a horizontal plane, said rear legs being formed from marginal portions of said seat portion and bent at substantially right angles thereto, the front end of the seat portion being turned downwardly and bifurcated to form the front legs, one at each side, and the overall width across the front legs being less than the width between said rear legs.

2,642,119
SET OF NESTED CHAIRS
Dorothee C. Dary, Sunnyvale, Calif.
Application December 26, 1951, Serial No. 263,150
5 Claims. (Cl. 155—2)



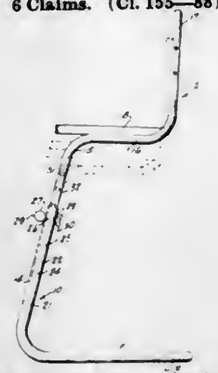
5. A set of three nesting chairs, one of said chairs comprising a master chair having a back, a seat and a leg panel assembled to form an enclosure open at both sides of the chair, a second of said chairs having a seat portion and a pair of side legs assembled to form an enclosure insertible within the enclosure of the master chair, and the third of said chairs having a seat portion and leg structure insertible within the enclosure of said second chair, each of said second and third chairs having a back portion of a height to form an arm for the master chair when nested therewith.

2,642,120
ADJUSTABLE AUTOMOBILE SEAT
George B. Cochran, Sutherland, Nebr.
Application November 3, 1948, Serial No. 58,125
5 Claims. (Cl. 155—7)



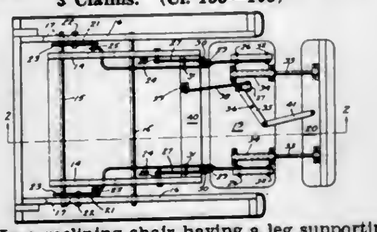
5. A seat of the class described comprising a seat section, a supporting frame for said seat section, a back section, a rocker frame hingedly supporting said back section upon said supporting frame relative to said seat section, a longitudinally extensible member fixed at one end to said supporting frame and engaging said rocker frame at its opposite end, the extensible means being movable to and from selected positions as the back section is swung relative to the seat section, locking means engaging the extensible member to lock the extensible member in a selected position and to thereby hold the back and seat sections in selected positions, the back section being movable selectively to an upright, an inclined, as well as a horizontal bed position, means carried by the supporting frame and actuated by said rocker frame and detachably engageable with said seat section for moving said seat section to a level position with said back section when the back section is swung to a horizontal bed position, back supporting arms carried by the rocker frame, retractible supporting legs for supporting the back rest in a horizontal bed position, and means actuated by said arms for moving said retractible legs to an extended operative position when said back rest is moved to a horizontal bed position.

2,642,121
CHAIR
Robert P. Frick, Palisades, Calif., assignor of one-half to George F. Smyth, Inglewood, Calif.
Application March 11, 1949, Serial No. 80,908
6 Claims. (Cl. 155—88)



1. A chair for use by a growing child comprising: a floor-engaging frame element; a seat-supporting frame element; a seat fixed to said last named frame element; means for connecting said seat-supporting frame element to said floor-engaging frame element for vertical movement relative thereto whereby said seat-supporting frame element can be moved to vary the distance between said seat and the floor; a foot rest member; and means carried by said foot rest member cooperable with means carried by said frame elements for holding said frame elements in a preselected position of adjustment to position said seat a preselected distance from the floor and for securing said foot rest member to said frame elements a preselected distance from said seat, whereby as the child grows the distance between the seat and the floor can be decreased and the distance between the seat and the foot rest increased.

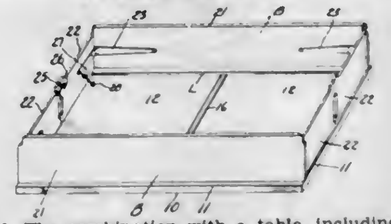
2,642,122
LEG SUPPORTING PLATFORM AND EXTENSION FOR ADJUSTABLE CHAIRS
Robert A. Maurer, East Palestine, Ohio, assignor to The Kenmar Manufacturing Company, East Palestine, Ohio, a corporation of Ohio
Application December 12, 1951, Serial No. 261,237
3 Claims. (Cl. 155—105)



2. In a reclining chair having a leg supporting platform movable from substantially vertical to

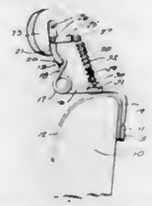
substantially horizontal position relative thereto, an extension for said platform, tubular guides on said platform and projecting rods on said extension registering with said tubular guides, means for moving said extension with respect to said platform and comprising a lever pivoted midway between its ends to said platform, a link connecting one end of said lever to said chair and a secondary link connecting the other end of said lever to said extension, said extension being responsive in movement to relative motion between said platform and said chair.

2,642,123
FOLDABLE TABLE AND BENCH COMBINATION
Millard C. Borns, Muskegon, Mich.
Application September 10, 1949, Serial No. 115,067
6 Claims. (Cl. 155—123)



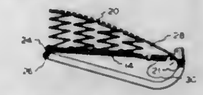
1. The combination with a table, including a top and a pair of leg structures, of a pair of benches in assembled relation with said table to form a compact, transportation unit; said table top having a rim member arranged to project from the edges of the table top and form with a surface of said top a receptacle, said leg structures being in overlying relation to said surface and forming therewith and with said rim a groove of uniform cross-section having a portion adjacent to and parallel to each edge of the table top, said leg structures being hinged to said surface to swing from said overlying relation to extend into substantial parallelism to support said table top from the ground, said benches each including a seat and a pair of parallel legs, the corresponding edges of said seats and legs being removably received in portions of said groove, means for holding said leg structures of said table in said overlying relation, and cooperating means on said table leg structures and said bench legs detachably holding said table and said benches in said assembled relation.

2,642,124
HEADREST FOR VEHICLES
Herbert James Siowey, Portage, Wis.
Application January 4, 1952, Serial No. 264,962
2 Claims. (Cl. 155—174)



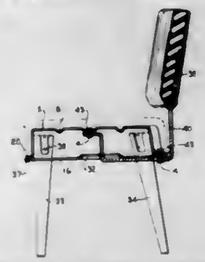
1. A head-rest for vehicles comprising diverging arms engaged over the top of a seat back, an angular member extending upwardly and forwardly therefrom, a frontal coil thereon, arms secured to the latter, a pair of cushioned head engaging portions fixed thereto, a bar connecting said arms, a telescoping member fixed between said bar and said horizontal portion of said angular member, and a coil spring limiting the compressing action of said telescoping member.

2,642,125
SPRING CONSTRUCTION
Clair S. Reed, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a corporation of Delaware
Application March 21, 1951, Serial No. 216,775
4 Claims. (Cl. 155—179)



1. A cushion seat construction comprising a main structure having a base, front, side and rear members with said front and side members being located above said base, a frame located substantially in the same plane as said front and rear members, a hinged connection between said frame and said front member, said frame having its rear edge located forward of said rear member a substantial distance to provide toe clearance along the rear edge of the seat construction, tension coil springs connected between said frame and said rear member to resiliently support said frame relative to said plane, cushion coil springs supported upon said frame and having upper coils defining a resilient upper surface above said frame, and flat spring elements connected to said rear member and extending upwardly and forwardly into the surface of said upper coils and connected thereto to bridge the spacing between said tension coil springs and frame and said rear member above the toe clearance space defined between said frame and said rear member.

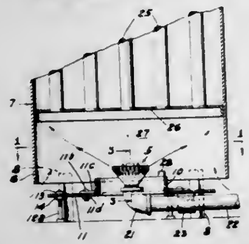
2,642,126
METAL FURNITURE
William F. Grabendike, Wichita, Kans., assignor to Cessna Aircraft Company, Wichita, Kans.
Application January 7, 1948, Serial No. 953
9 Claims. (Cl. 155—194)



1. An article of furniture comprising: a hollow horizontal box-like structure of sheet metal having top and bottom panels, and sidewalls rigidly connecting said panels in spaced relation; a passage in the bottom panel for embracing a leg; and an upright supporting leg having its upper end located inside said box-like structure adjacent said top panel, said leg extending

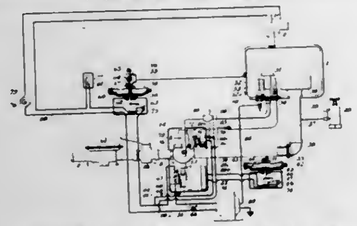
downward through said passage; and means securing the upper portion of said leg to the box-like structure at spaced points on the leg.

2,642,127
GAS FUELED COMBUSTION CHAMBER AND AIR INLET BAFFLE
Charles W. Sievert, Los Angeles, Calif., assignor to Frederick W. Sievert, Los Angeles, Calif.
Application May 6, 1948, Serial No. 25,428
2 Claims. (Cl. 158—7)



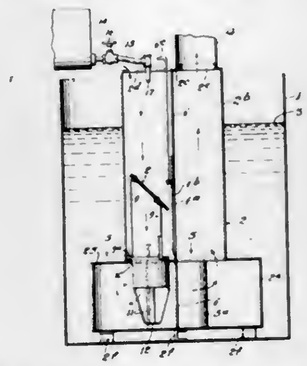
1. In combination with a heater having a circumferential wall defining a downwardly opening combustion chamber, means adapted to support said wall with its lower end above a supporting surface, a horizontal annular burner baffle means disposed adjacent and below the lower end of said wall, said baffle means having a central opening, a burner means rising through said central opening adjacent the sides thereof and forming with said central opening a primary annular air feed passage, said baffle means being of a diameter less than the interior diameter of the combustion chamber wall and having its peripheral edge closely adjacent thereto to provide an annular uninterrupted secondary air feed passage between the periphery of the baffle means and the lower end of the chamber wall so that the secondary air is caused to travel upwardly as it is fed into the combustion chamber, the diameter of the central opening relative to the diameter of the baffle means being of the order of at least 1 to 3, and means for adjustably supporting said baffle means concentrically of the wall of the combustion chamber whereby in all portions of adjustment the inflow of secondary air will have an upward component.

2,642,128
PRESSURE RESPONSIVE COMBUSTION CONTROL APPARATUS
William L. Riehl, Rome, N. Y., assignor to Union Fork & Hoe Company, Columbus, Ohio, a corporation of Ohio
Application September 13, 1946, Serial No. 696,735
7 Claims. (Cl. 158—7)



5. Combustion control apparatus comprising a combustion chamber, a burner therein, a source of fuel under pressure, a conduit leading from said source of fuel to said burner, a valve in the conduit, a restricting member in the conduit between the valve and the burner, an electric motor, power transmission means connected thereto and arranged to open said valve, resilient valve closing means, electro-magnetic valve retaining means arranged to hold the valve open, a pressure responsive control connected to and actuated by the pressure in the conduit between the valve and the restricting member and controlling said valve retaining means, a pressure responsive controlling means connected to and responsive to the pressure in the combustion chamber controlling the motor, and a thermocouple adjacent the burner controlling the valve retaining means.

2,642,129
BURNER FOR IMMERSION HEATERS
James L. Breese, Santa Fe, N. Mex., assignor to Breese Burners, Inc., Santa Fe, N. Mex., a corporation of Delaware
Application February 16, 1951, Serial No. 211,371
13 Claims. (Cl. 158—91)

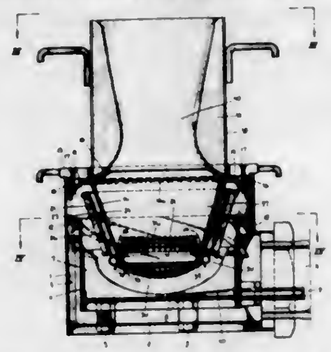


5. In a liquid fuel burner having a downdraft flue provided with a heated wall portion and means for discharging a liquid fuel for downward movement through the flue, the improvement comprising: a plate having at least one edge adapted to be spaced from the walls of said flue to permit the flow of secondary air between the walls and the plate, said plate having a plurality of apertures therein for the flow of primary air and fuel through the plate, and a support for said plate formed and adapted to position said plate adjacent said heated wall portion and in the line of discharge of said fuel, whereby fuel deflected from said plate toward said heated wall portion may be vaporized.

2,642,130
POT TYPE OIL BURNER
Bengt Rudolf Andersson and Karl Erik Vilhelm Qvarfordt, Gothenburg, Sweden
Application July 3, 1950, Serial No. 171,976
In Sweden November 11, 1947
3 Claims. (Cl. 158—91)

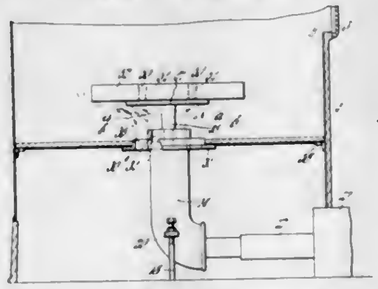
1. An oil burner comprising a cylindrical casing having an open upper end, an oil receptacle mounted within the lower portion of said casing and spaced therefrom, a conical combustion chamber open at both ends, positioned within

but spaced from the upper portion of said casing and extending into but spaced from said oil receptacle, a non-combustible permeable body having a convex bottom surface mounted across and below the lower open end of said combustion chamber forming the bottom thereof, means



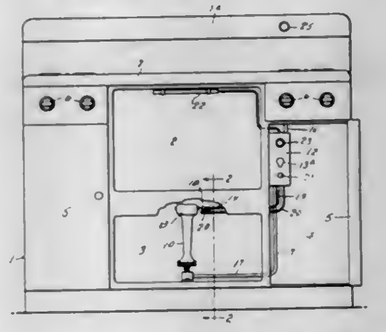
for supplying fuel oil into the bottom of said oil receptacle, an air supply pipe opening into the lower portion of said casing and means for supporting said combustion chamber mounted on the open end of said casing and closing the space between the upper edges of said chamber and the wall of said casing.

2,642,131
GAS BURNER SECONDARY AIR-FEED RING AND BAFFLE
Homer D. Du Fault, Easthampton, Mass., assignor to Heatbath Appliances, Inc., Indian Orchard, Springfield, Mass., a corporation of Massachusetts
Application May 23, 1951, Serial No. 227,826
1 Claim. (Cl. 158—113)



Gas burner apparatus adapted to be supported on the annular shoulder spaced downwardly from the open upper end of a vertically disposed stand pipe comprising, a port member having radially spaced and concentrically arranged inner and intermediate and outer annular co-axial portions connected by radially extending and circumferentially spaced members providing an inner socket and separate intermediate and outer vertically extending concentrically arranged annular gas and air ports, said intermediate annular portion being arranged to receive the upper end of the stand pipe in the gas port thereof and to rest on the annular shoulder for supporting said port member, the upper side of the said intermediate annular portion being disposed in a plane disposed vertically above the plane of the upper side of the outer annular portion whereby the air port is in a plane below that of the gas port, an elongated spacer having a lower end receivable in the socket of said port member and a shoulder therearound for resting on the inner annular member whereby said spacer is supported in vertically extending position, a flange provided on the upper end of said spacer having an upper horizontally disposed supporting face provided with vertically extending relatively spaced studs, and a separate circular baffle formed from refractory material on the supporting surface of said flange provided with openings formed to loosely receive the studs.

2,642,132
INDICATOR FOR COOKING RANGE OVENS
Charles M. Mayer, Mansfield, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio
Application November 19, 1948, Serial No. 61,106
6 Claims. (Cl. 158—122)

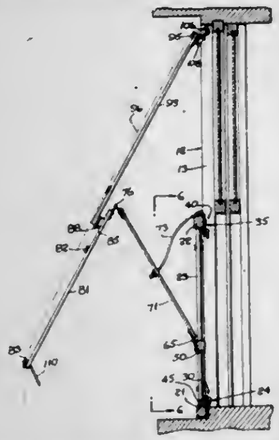


1. An apparatus of the character described comprising an elongated gaseous fuel oven burner, an electric indicator bulb remote from said oven burner, ignition means by which said oven burner is ignited disposed adjacent one end of said oven burner, means including a switch operative when closed to effect energization of said electric bulb, a thermostatic element operative when heated to close said switch, and an indicating pilot burner mounted adjacent the other end of said oven burner in position to be ignited by said oven burner and to project a flame against said thermostatic element and maintain said thermostatic element heated during normal operation of said oven burner, said indicating pilot burner burning constantly during the continuous normal operation of said oven burner.

2,642,133
WINDOW AWNING
Samuel M. Brody, New York, N. Y.
Application September 9, 1952, Serial No. 308,658
8 Claims. (Cl. 160—62)

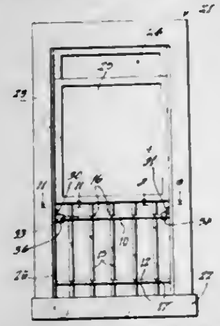
1. An awning comprising a frame having top and bottom horizontal cross bars connected by vertical rods, an intermediate cross bar slidable on the vertical rods, bars hinged to the intermediate bar, bars hinged to the outer ends of the first hinged bars, bars hinged to the second

hinged bars about hinges spaced from the hinge connection between the first bars and second



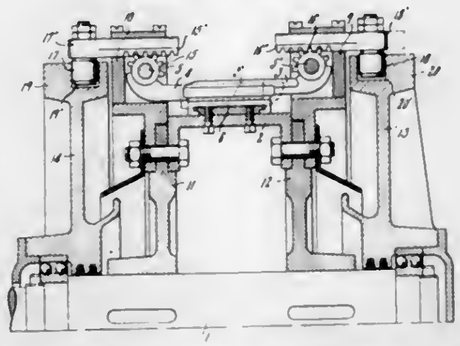
bars, and an awning sheet attached to the second and third bars.

2,642,134
WINDOW GUARD
Michael T. Montefusco, Brooklyn, N. Y.
Application August 22, 1950, Serial No. 180,720
4 Claims. (Cl. 160—161)



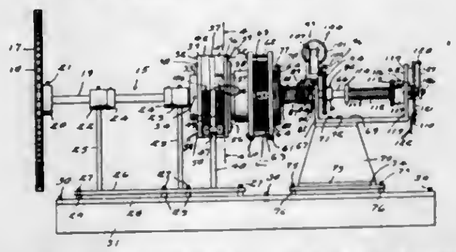
2. In a collapsible window guard, a grating comprising a plurality of slats, and pairs of elongate structures each pair forming an elongate unit, each of said units being pivotally connected to all of said slats, the points of such pivotal connections being uniformly spaced along said units and also uniformly spaced along said slats whereby the window guard may be expanded to dispose all said slats vertically and at the same time to dispose both elongate structures horizontally with one at a higher level and the other at a lower level, said points of said pivotal connections being uniformly spaced along both said elongate units thereby uniformly spacing said slats when the window guard is expanded as aforesaid, each of said elongate structures being of a length substantially equal to the lateral width of the window sash whereby, when the window guard is placed in an opening in a sliding-sash window installation wherein said opening is of a prevised width and the guard is expanded as aforesaid below a raised sliding sash of said installation, the opposite end portions of both said elongate structures are projected into the slideway spaces for said raised sash, angle irons mounted on the guide strips of the window installation at elevations slightly above the upper elongate unit, members mounted on the ends of said upper elongate unit, and lugs projecting from said members and engaging said angle irons retaining the window guard removably in position.

2,642,135
CUTTING MACHINE FOR SYNTHETIC SILK AND RAYON YARNS
Gian Carlo Regalia, Milan, Italy
Application February 25, 1948, Serial No. 10,616
In Italy March 5, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 5, 1966
2 Claims. (Cl. 164—42)



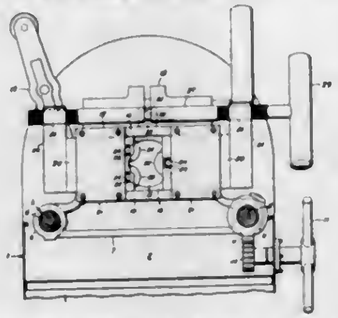
1. A cutting machine for synthetic silk and rayon yarns, filaments and textile fiber material comprising a rotatable drum having a peripheral surface for supporting said filaments, clamping means pivotally mounted on one side of said peripheral surface for movement toward and away from said surface, blade means pivotally mounted on the other side of said peripheral surface for movement toward and away from said surface, said clamping means alternating with said blade means about the periphery of the drum, means extending laterally from each side of the drum surface toward the surface of the latter and operatively connected to said cutting and blade means respectively for operating them in sequence during rotation of the drum, whereby the cutting of said filaments is effectuated to predetermined lengths while the same are held in taut and stretched condition by said clamping means.

2,642,136
VENEER CUTTING MACHINE
Rudolph S. Burnett, Memphis, Tenn.
Application April 26, 1948, Serial No. 23,275
3 Claims. (Cl. 164—48)



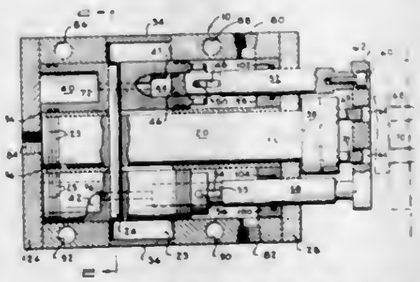
1. In a control means and time and space measuring device for a clipper for veneer or like strip material having strip advancing means suitably driven, a clipping knife movable to and from cutting position, electro-magnetic clutch means for operatively connecting the clipper to the driving means to operate the knife to sever the strip, electro-magnetic brake means for momentarily stopping the knife after each cut in inoperative position, manually operated means for selecting the length of material to be cut and causing the operation of said knife when such length has advanced to the knife, means to render the latter means inoperative, automatic electrically operated control means driven from the strip advancing means to cause intermittent operation of the clutch, knife and brake means independently of the manual means to successively cut the strip in predetermined lengths, and means for adjusting and setting the automatic control means to vary the lengths cut.

2,642,137
SELF-CENTERING CUTTER
Waynard R. Vosper, Guilford, Conn.
Application March 11, 1949, Serial No. 80,963
9 Claims. (Cl. 164—60)



1. In a pipe machine, a supporting member having a slideway, a pair of blocks carried by and slidably engaging said slideway, a cutter carried by one of said blocks and a reactance carried by said other block, means consisting of an actuating member connecting said blocks and adapted to move said blocks both relatively and shift said blocks as a unit along said slideway, and yieldable means normally locking said blocks against said shifting.

2,642,138
HYDRAULICALLY ACTUATED PRESS
John Macewka, Royal Oak, Mich.
Application March 7, 1951, Serial No. 214,398
7 Claims. (Cl. 164—95)



1. An hydraulically actuated press comprising a housing having a plurality of parallel cylinder bores therein and also having an elongated slot therein extending in the direction of the axes of said bores, said slot interconnecting said bores, a main piston disposed in one of said bores and adapted for connection with a press tool, a supplemental piston disposed in another of said bores and adapted for connection to a stripper clamp, a dowel member extending through said slot in said housing and rigidly connecting said main piston and said supplemental piston, a secondary piston disposed within the foot of said supplemental piston in limited sliding engagement therewith so that said secondary piston may move a limited distance relative to said supplemental piston, means for hydraulically actuating said secondary piston, means for thereafter hydraulically actuating said main and supplemental pistons, and return means for returning first said secondary piston and then said main piston and supplemental pistons to their initial positions.

2,642,139
APPARATUS FOR TREATING WELLS
Charles F. Bedford, Houston, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application April 26, 1946, Serial No. 665,131
8 Claims. (Cl. 166—1)

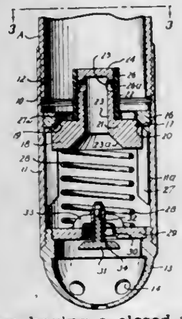


1. Apparatus adapted to be lowered within a well tubing and to dispense a treating agent within the well which comprises a vertically elongated dispensing chamber, a fluid passageway communicating with an upper portion of said chamber, a valve means in a lower portion of said chamber, rigid valve actuating means extending between said valve means and the exterior of said chamber, a shear pin adapted to prevent movement of said rigid means within the chamber during the travel of the chamber within the well, and stop means carried by said rigid means to limit its longitudinal movement within said chamber.

2,642,140
VALVE
Cicero C. Brown, Houston, Tex.
Application June 25, 1949, Serial No. 101,377
8 Claims. (Cl. 166—1)

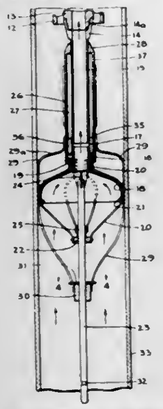
1. A fill-up valve device for a well pipe adapted to be lowered within a well bore having fluid therein including, a tubular body adapted to be connected in the lower portion of the well pipe and having a fluid opening therein whereby fluid from the well bore may enter the body and flow into the well pipe, a valve seat in said body, and a cementing valve within the body which is normally closed by seating on said valve seat and

is adapted to be unseated to allow a cementing operation to be carried on through the pipe, said valve having an axial flow passage therethrough, a tubular flow stem connected with said cementing valve and having an open lower end communicating with said axial flow passage and the lower portion of the interior of the body, whereby pressure fluid from the well bore flowing into the body through the fluid opening may enter the



stem, said stem having a closed upper end and having radial ports in its wall which establish communication between the interior of the flow stem and the well pipe so that fluid from the well bore may flow into the well pipe through the tubular stem and ports, and a flexible valve member mounted on the exterior of the stem and actuated by the differential in pressures within the stem and within the well pipe for controlling flow through said ports.

2,642,141
COLLAPSIBLE PACKER FOR WELL INSTRUMENTS
Robert H. Kolb, Houston, Tex., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application August 31, 1951, Serial No. 244,498
4 Claims. (Cl. 166—10)



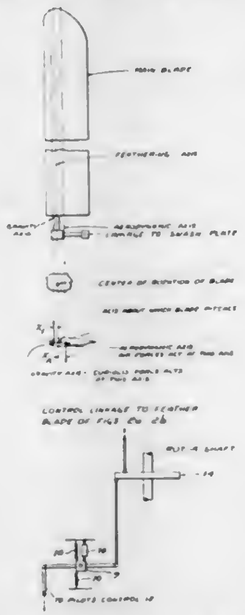
4. A packer assembly adapted to be lowered through a well tubing suspended within a well casing, said packer assembly comprising an elongated tubular body member having open ends, a guide rod co-axially affixed to and extending from the lower end of said body member, fluid port means about the upper end of said rod and in communication with the bore of said body member, said rod being of smaller diameter than said body member, a radially expansible parachute packer of a thin impervious flexible material carried on said body member, the central portion of said parachute packer being secured to the lower end of said body member, said parachute packer opening downwardly whereby the sides of the parachute engage the walls of the well casing when said packer is actuated, a plurality of flexible metallic reinforcing ribs affixed at one end to the lower end of the body member above said parachute packer, said ribs extending radially and downwardly along the top surface of the packer for reinforcing said parachute packer against the upward thrust of a well fluid, an elongated housing sleeve slidably mounted in a co-axial manner on said body member for alternately covering and uncovering the parachute packer and the reinforcing ribs when said packer is alternately in its inoperative and operative positions, centralizer means comprising a plurality of bow springs affixed at their upper ends to the housing sleeve above the parachute packer and at their lower ends to a slidable member mounted on said guide rod below said parachute packer, said bow springs being radially expansible from said housing sleeve and guide rod for frictionally engaging the wall of the well casing whereby the housing sleeve is removed from the parachute packer on further lowering of the packer assembly after the springs have engaged the casing wall, stop means carried by the housing sleeve for limiting the downward movement of said sleeve when the parachute packer is in its expanded position, and latch means caried by the slidable member for engaging the lower end of the guide rod to retain the centralizer springs in a retracted position as the packer assembly passes through a well tubing.

2,642,142
HYDRAULIC COMPLETION OF WELLS
Joseph B. Clark, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application April 20, 1949, Serial No. 88,616
9 Claims. (Cl. 166—22)



1. A method of completing a well comprising placing in said well a casing having a weak section, cementing said weak section in said well and applying internally thereto by hydrostatic pressure of a bodied liquid a stress greater than the combined ultimate strength of said weak section and the adjacent formation whereby the strata adjacent said weak section may be fractured to increase its productivity.

2,642,143
HELICOPTER ROTOR
René H. Miller, Boston, Mass.
Application May 20, 1948, Serial No. 28,071
16 Claims. (Cl. 170—160.25)

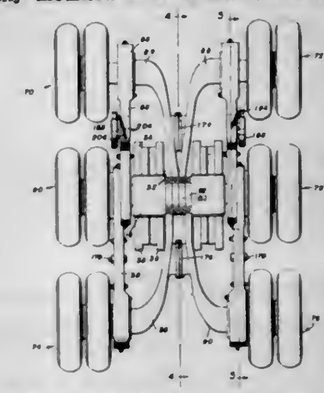


1. In a rotary wing aircraft having a body, means for improving the control characteristics of the aircraft comprising a rotor having at least one radially extending blade operatively connected with said body for rotation above said body about a generally upright axis, said blade being arranged and constructed to feather about a feathering axis, and having at least one of its effective centers of gravity and aerodynamic lift displaced from said feathering axis, cyclic pitch control means including a non-rotating linkage operatively connected through rotating members to said blade, and a yieldable restraining means operatively connected with said linkage to restrain the degree of feathering of said blade provided by such displacement wherein the degree of improvement of control characteristics provided by said means is

$$0.5<\frac{\text{corrective cyclical pitch control}}{2\times\text{rate of disturbance}}<20.0$$

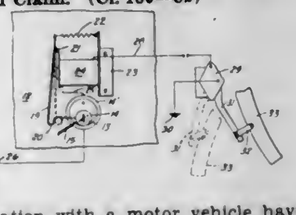
2,642,144
TRACTOR WITH SIX DRIVEN WHEELS
William L. Brewer, Jr., Port Townsend, Wash.
Application August 5, 1948, Serial No. 42,702
7 Claims. (Cl. 180—22)

1. In a vehicle, a chassis which includes a motor assembly, said motor assembly including two units which are transversely spaced apart and rigidly connected at their inner sides by a horizontal transverse extending spindle, each unit being encased in a housing, aligned transverse shafts extending from said units, a wheel assembly carried by each of said aligned shafts, arms extending fore and aft of the vehicle and pivotally mounted in a vertical plane at their



inner ends on said spindle, and each arm having a wheel assembly at the outer end thereof.

2,642,145
COMBINED IGNITION KEY AND EMERGENCY BRAKE REMINDER MECHANISM
Joseph F. Feyes, San Francisco, Calif.
Application April 19, 1952, Serial No. 283,231
1 Claim. (Cl. 180—82)

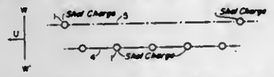


In combination with a motor vehicle having an ignition switch and a brake mechanism with an operating member for setting and releasing the brake mechanism, a lock member for the ignition switch operable to lock the switch against opening movement, an electro-magnet operative on the lock member for urging the said member into locking position when the electro-magnet is energized, an electric circuit for the electro-magnet having a switch therein, and means controlled by the operating member for closing the switch and for urging the lock member into locking position while the operating member occupies a brake releasing position.

2,642,146
SHOT HOLE ARRAY FOR ELIMINATING HORIZONTALLY TRAVELING WAVES
John P. Woods, Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 20, 1950, Serial No. 185,750
6 Claims. (Cl. 181—.5)

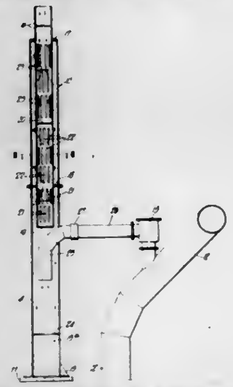
3. A method for the investigation of earth substrata which comprises arranging a detector of seismic waves at a desired reception point in an area to be investigated, establishing a plurality of disturbance points spaced from the reception point and arranged to form two circular concentric arrays, each array consisting of a series of disturbance points equally spaced one from

another, simultaneously creating a seismic disturbance at each of the disturbance points, and recording seismic waves received by the detector within a predetermined frequency band, the arrays being of unequal lengths but of lengths such



that horizontally traveling waves of a frequency corresponding substantially to the mid-frequency of the predetermined frequency band are substantially eliminated from the combined seismic disturbance of each array.

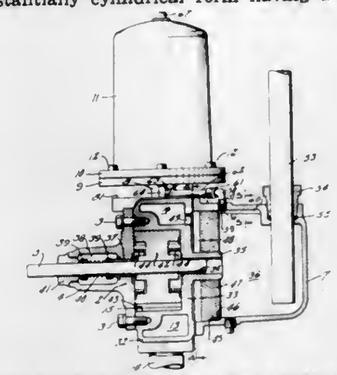
2,642,147
BAFFLE TYPE SILENCER WITH A BUFFER CHAMBER
Edmund R. Dearing, Homewood, Ala., assignor to United States Steel Corporation, a corporation of New Jersey
Application October 3, 1951, Serial No. 249,530
8 Claims. (Cl. 181—54)



1. A silencer comprising a housing tube, a closure at one end thereof, an outlet tube smaller in diameter than the housing tube extending coaxially into the other end of the latter but terminating short of the closed end thereof, an inlet pipe entering said housing tube from one side adjacent the inner end of the outlet tube and discharging toward the closed end of the housing tube, the portion of the outlet tube within the housing tube having ports spaced therealong, a baffle spaced from the inner end of the outlet tube closing the space between the tubes and transverse walls in the outlet tube spaced axially in both directions from said baffle whereby gas entering the housing tube is caused to execute successive passes through said ports into and out of said outlet tube.

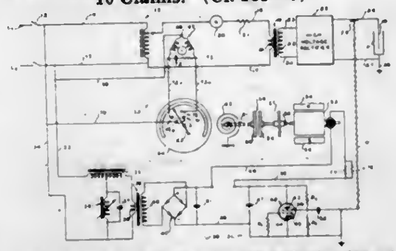
2,642,148
COMBINED PUMP AND AIR SEPARATOR UNIT
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application April 8, 1952, Serial No. 281,149
5 Claims. (Cl. 183—2.5)

1. The combination with a rotary pump, including a casing having a peripheral wall and first and second spaced parallel end walls and affording within it a cylindrical pump chamber together with inlet and outlet chambers respectively connected with the pump chamber by peripheral inlet and outlet ports, the ends of said pump chamber being closed by the first and second walls and one end of said outlet chamber being closed by the second end wall, a rotor mounted in said pump chamber, a driving shaft fixed to the rotor and rotatably mounted in each of said end walls, a second casing of hollow and substantially cylindrical form having a closure



at one end and having its other end fixed to the second end wall and closed thereby, a coalescing roll mounted in the second casing between the ends thereof and presenting a compacted fibrous mass with manifold tortuous interstices for the passage of fluid therethrough, a port through said second end wall connecting the outlet chamber of the pump to the last-named end of the second casing on one side of said roll, the second casing having an air-escape port located in its upper portion on the other side of said roll and an outlet on the last-named side of said roll for air-free liquid.

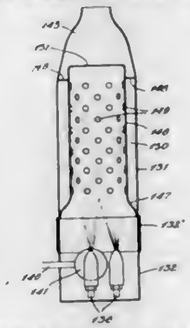
2,642,149
SYSTEM FOR ENERGIZING ELECTRICAL PRECIPITATORS AND THE LIKE
Philip C. Backer, Middlesex, and Harold E. Van Hoesen, South Branch, N. J., assignors to Research Corporation, New York, N. Y., a corporation of New York
Application July 30, 1951, Serial No. 239,344
10 Claims. (Cl. 183—7)



1. A system for energizing the electrodes of an electrical precipitator comprising means for varying the voltage applied to said electrodes, a device responsive to disturbances in the system caused by an inter-electrode spark, means for generating current pulses in accordance with the responses of said spark responsive device,

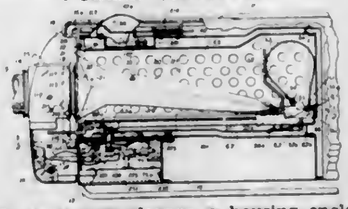
motor means actuated by said pulses to generate a force varying with the rate of said pulses, a control device operatively connected to said voltage varying means, and means transmitting the force developed by said motor means to said control device to vary the control action thereof in accordance with the rate of said pulses.

2,642,150
APPARATUS FOR OBTAINING AEROSOLS OF SUPERIOR QUALITY
Lucien Dautrebande, Brussels, Belgium, assignor to Aerosol Corporation of America, New York, N. Y., a corporation of Delaware
Application October 4, 1946, Serial No. 701,216
In Belgium October 5, 1945
3 Claims. (Cl. 183—22)



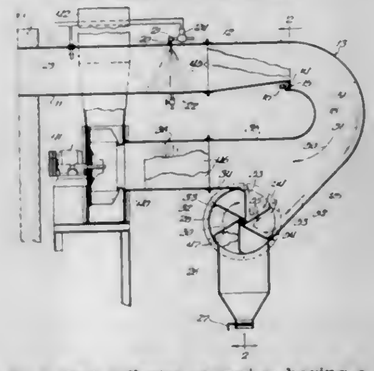
1. An apparatus for producing aerosols of superior quality comprising a closed vessel containing an atomizing means including a gas inlet tube and a liquid feed tube terminating near the bottom of the vessel, an aerosol outlet tube having a discharge opening therein and an apertured cylindrical enclosure coaxially disposed within said vessel and said outlet tube and positioned between the atomizing means and said discharge opening and arranged across the path of the cloud formed by said atomizing means, said enclosure being enlarged near its lower end so as to fit snugly against the outer wall of the cylindrical vessel at a point near the outlet tube, the end of said enclosure being closed and the cylindrical walls of said enclosure being apertured.

2,642,151
VACUUM CLEANER WITH BAG EJECTOR
Leon P. Borkoski and Robert C. Lampe, Stamford, Conn., assignors to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application May 11, 1951, Serial No. 225,848
5 Claims. (Cl. 183—62)



1. In a vacuum cleaner, a housing enclosing a dust bag compartment, an opening in said compartment, a dust bag insertable into said compartment through said opening and being formed with an inlet aperture, an inlet conduit for communicating with said aperture, releasable means for movably securing said conduit to said housing, means for ejecting said dust bag, restraining means for preventing operation of said bag ejecting means, latching means for holding said restraining means in bag retaining position, a selectively movable member settable to a position preventing relatching of the restraining means by said latching means, means responsive to the establishment of a predetermined pressure difference between the inside and outside of said dust bag for setting said selectively operable member to said above-mentioned position, and means responsive substantially simultaneously with the setting of said selectively operable member for releasing said conduit securing means.

2,642,152
CENTRIFUGAL DUST AND CINDER COLLECTOR
Francis J. Dohrer, Seattle, Wash.
Application May 9, 1950, Serial No. 160,993
12 Claims. (Cl. 183—79)

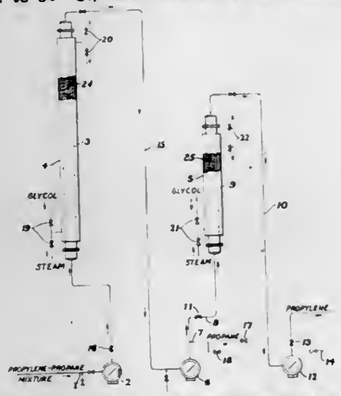


1. In a dust collector, a casing having a gas passage with a downward return bend for concentrating particulate matter carried by a gas stream flowing through the casing along the outer wall of said bend, means to crowd the particulate matter more closely against said outer wall comprising a series of nozzle orifices carried by the inner wall of the bend for directing fluid jets toward said outer wall, said outer wall having a downwardly sloping portion forming an expanding chamber on the bottom side of said return bend, a radial rotor having its top portion extending into said expanding chamber and a lower portion tangent to said outer wall to intercept particulate matter flowing along said wall, a dust collection chamber communicating with the bottom portion of said rotor, and walls enclosing the remaining portion of said rotor between said collection chamber and said expanding chamber to isolate said collecting chamber and form a seal between said gas passage and atmosphere.

2,642,153
GAS SEPARATION BY ADSORPTION AND PREFERENTIAL DESORPTION
William A. Parks, Longview, Tex., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 2, 1951, Serial No. 218,877
7 Claims. (Cl. 183—114.2)

2. Method for the separation of propylene from gaseous mixtures containing about 2–75% pro-

pylene, the remainder being substantially all propane, said method comprising the steps of adsorbing the propylene and propane of said mixture on silica gel maintained at a temperature not exceeding about 30° C., thereafter liberating and withdrawing from the gel substantially pure propane by increasing the temperature of the gel to within the range of about 35° C. to 50° C., then liberating and withdraw-



ing from the gel most of the propane remaining therein along with some of the adsorbed propylene by increasing the temperature of the gel to within the range of about 55° C. to 70° C., and finally increasing the temperature of the gel to within the range of about 75° C. to 150° C. until substantially all of the remaining adsorbed propylene is liberated as a gas fraction rich in propylene.

2,642,154

TREATMENT OF GASEOUS MIXTURES

James William Woolcock, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 29, 1951, Serial No. 234,444. In Great Britain August 14, 1950

8 Claims. (Cl. 183—115)

1. A process for separating a constituent from a gaseous mixture which comprises bringing the gaseous mixture into contact with a liquid absorbent for the said constituent at a first temperature, and subjecting the resulting solution in the presence of at least one additional liquid to elevated temperature, whereby the said constituent is regenerated; the liquids used and their proportions being such that at the regeneration temperature the mixture of liquids exists as at least one liquid phase but at the first temperature exists as, a larger number of phases of which one comprises predominantly the absorbent for the said gaseous constituent.

2,642,155

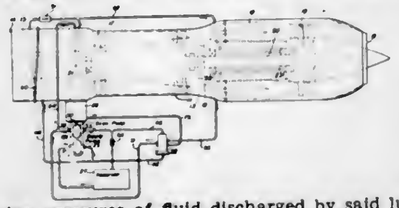
LUBRICATION APPARATUS

Wilbur F. Wilhelm, Jr., Prospect Park, Pa., and Edward Gilbert, Washington, D. C., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 14, 1948, Serial No. 27,106

3 Claims. (Cl. 184—6)

1. A lubricating system for a bearing disposed in a high pressure zone, comprising a low pressure lubricant reservoir, a lubricating pump having an outlet normally connected to said bearing and operative to supply lubricant under pressure from said reservoir to said bearing, a scavenge pump having an inlet normally connected to said bearing and normally operative to draw excess lubricant from said bearing and to return it to said reservoir, and a valve device having communications connected to said lubricating pump outlet, said scavenge pump inlet and said bearing, and operative to effect repriming of said lubricating pump in the event of interruption of oil supply, including a fluid pressure operative valve element subject to the op-



posing pressures of fluid discharged by said lubricating pump and of fluid flowing from said scavenge pump toward said reservoir, said valve element being disposed in controlling relation with the communication between said bearing and said scavenge pump and being responsive to a reduction in the fluid discharge pressure of said lubricating pump for establishing a by-pass communication therefrom to said scavenge pump inlet for rendering said scavenge pump operable to facilitate priming of said lubricating pump.

2,642,156

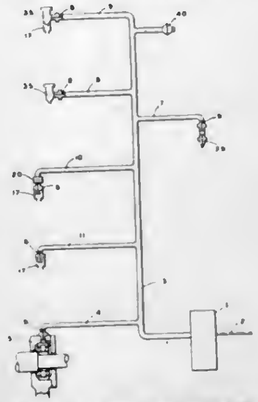
LUBRICATING SYSTEM

Karl Evald Andreas Gothberg, Goteborg, and Sigurd Sandahl, Heden, Sweden, assignors to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden

Application March 6, 1947, Serial No. 732,901

In Sweden March 28, 1946

17 Claims. (Cl. 184—7)



1. A lubricating system for supplying oil in a liquid state to a surface to be lubricated, comprising a mist generator for entraining particles of liquid oil in a gas to form an oil mist having a pressure substantially greater than atmospheric pressure, and a duct of relatively great cross-section leading from the generator to the surface to be lubricated; there being in the duct, between the generator and said surface a mist precipitator, including a local constriction of much smaller cross-section, and means providing a surface transverse to the direction of flow through the local constriction and adjacent the outlet end thereof to precipitate a substantial portion of the entrained oil from the oil mist passing therethrough and to discharge the precipitated oil to the surface to be lubricated and to discharge the gas to the atmosphere.

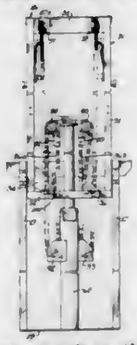
2,642,157

LIFTING MAST ASSEMBLY

Harold Edward Milz, Chicago, Ill., assignor to The Mercury Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application May 22, 1951, Serial No. 227,611

11 Claims. (Cl. 187—9)



11. An industrial truck of the elevating platform-type including, in combination, a main frame, a sub-frame telescopically carried by said main frame, a platform telescopically carried by said sub-frame, means for raising and lowering said platform comprising a single vertically movable member, at least one pair of sheaves carried by said member and arranged thereon in parallel relation with the axes thereof coincident and extending in the direction of the length of the truck, additional sheaves on said main frame and on said sub-frame, and cables passing over all of said sheaves, each cable having one end attached to said platform and the other end attached to said member, the cable ends which are attached to the platform being connected thereto on opposite sides of the truck center and the cable ends which are attached to said member being attached on opposite sides of the truck center from the other ends of the cables for preventing tilting of the platform while being raised and lowered and means for actuating said vertically movable member, whereby said platform will be moved to the top of said sub-frame without exceeding the overall height of said main frame and said platform together with said sub-frame will be moved to the top of said main frame.

2,642,158

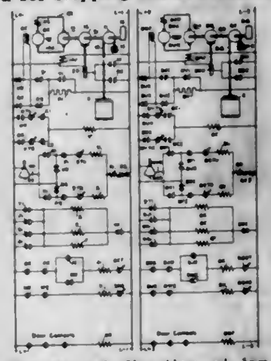
SELECTIVELY ZONED ELEVATOR SYSTEM

William F. Eames, Westfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 2, 1950, Serial No. 183,007

77 Claims. (Cl. 187—29)

66. In an elevator system, a structure having a pair of spaced terminal landings and a plurality of intermediate landings, an elevator car, motive means for moving the elevator car in first and second directions for serving the landings, first landing call registering means operable from each of the intermediate landings for registering calls from prospective passengers desiring transportation in said first direction, second landing call registering means operable from each of the intermediate landings for registering calls from prospective passengers desiring transportation in the second direction, control means responsive to calls registered by the first and second landing call registering means for stopping the elevator car during travel in the first direction at the landings for which calls are registered by the first landing call registering means and for stopping the elevator car during



travel in the second direction at landings for which calls are registered by the second landing call registering means, car call means for registering calls for landings desired by car passengers, said control means including means responsive to the car call means for stopping the elevator car at landings for which calls are registered by the car call means, and means cooperating with the control means for stopping the elevator car when traveling in the first direction at the farthest landing in said first direction for which a call is registered by the car call means or the second landing call registering means, whichever is farther, even though a call for a still farther landing in the first direction is registered by the first landing call registering means.

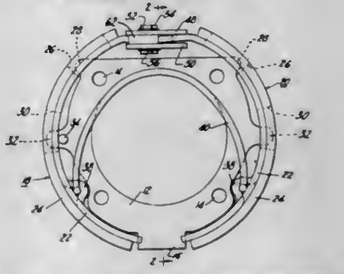
2,642,159

BRAKE

Bryan E. House, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 16, 1947, Serial No. 792,019

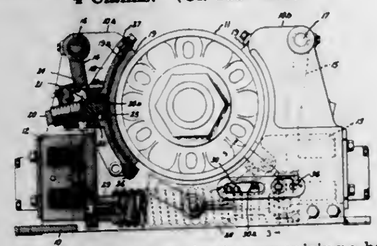
19 Claims. (Cl. 188—78)



18. A brake comprising a supporting plate which is adapted to be secured to a non-rotatable

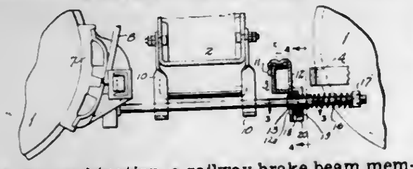
member and which has a radially-extending projection arranged to serve as a brake shoe anchor, a friction element having a plurality of radial slots, ears on the supporting plate extending into the slots to guide said element, and an applying lever having spaced apart side portions which receive the ends of the friction element therebetween.

2,642,160
TWO-SHOE INDUSTRIAL TYPE BRAKE
Alexander W. Bedford, Jr., and Ernest F. Goetz, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application October 1, 1948, Serial No. 52,372
4 Claims. (Cl. 188—171)



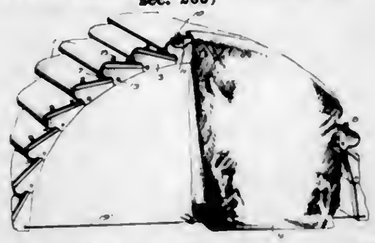
1. An electromagnetic brake comprising a brake drum, a movable armature pivotally mounted for movement toward and away from said drum, a transverse pin adjustably mounted in said armature, said pin having a projecting end provided with a spherical end surface, a collar fixedly mounted on said projecting end and providing a spherical outer surface concentric with said spherical end surface, an arcuate brake shoe provided intermediate its ends with a spherical bearing socket mounted upon said collar, said socket including a spherical portion bearing directly against said spherical end of said pin, means for biasing said armature to bring said shoe into engagement with said drum, and an electromagnet for moving said armature to a predetermined fixed position of retraction to release said brake.

2,642,161
RAILWAY BRAKE BEAM SAFETY CONNECTOR STRUCTURE
Herbert W. Ekholm, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application December 13, 1950, Serial No. 200,639
9 Claims. (Cl. 188—210)



4. In combination, a railway brake beam member, a hook-like bracket applied to said member and including a leg extending vertically along one side of the beam member and beyond the edge of the same and there having a vertically elongated slot, a sleeve extending through said slot transversely of said leg and alongside said member, the sleeve being slidable lengthwise of said slot into a position spaced from said member, to accommodate removal of the bracket from the beam, and into a position closely adjacent said member, and a removable element holding the sleeve in the latter-mentioned position to interlock the bracket with the beam, said sleeve being arranged to receive a connector rod extending transversely of the beam.

2,642,162
COLLAPSIBLE METAL SHELTER
Herrmann B. Tobias, Washington, D. C.
Application May 24, 1948, Serial No. 28,957
12 Claims. (Cl. 189—2)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A collapsible shelter comprising a plurality of slats, the adjacent edges of adjoining slats being reversely curved and interlocked to provide hinges, voussoir members fixed to the ends of said slats, said voussoir members being formed with cooperating skew-bearing surfaces to limit their swinging movement in one direction, said voussoir members being of substantially uniform length and pivotally connected solely through the medium of the slats.

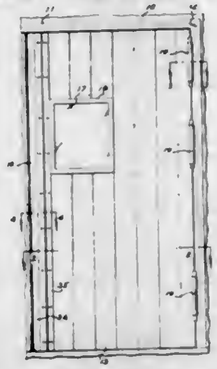
2,642,163
ARCH FORM FOR FURNACE ROOFS
Emmett E. McVey and James H. Opre, Youngstown, Ohio
Application April 29, 1949, Serial No. 90,442
2 Claims. (Cl. 189—37)



1. A collapsible form for use in the construction of arches, comprising a plurality of similar forms, each comprising arcuate top and bottom chords and struts connected at opposite ends to the chords, spacers detachably connecting adjacent forms together, each spacer having a hook at one end engaging a strut of one form and an open U-shape portion at the other end engaging a strut of an adjacent form, there being slots in opposite sides of the hook and in opposite legs of the U-shape portion and wedges located through said slots and against said struts detachably connecting the spacers to the forms.

2,642,164
SWINGING DOOR
Vincent McLean, Hollis, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 20, 1950, Serial No. 139,603
2 Claims. (Cl. 189—46)

1. In an impact actuated swinging door, a sheet of vertically corrugated resilient metal having reinforcements only on the hinge edge and on the free edge parallel thereto to permit vertical flexing throughout its length to absorb most of the shock when struck while preventing destructive transverse flexing along a horizontal line, said reinforcement on the hinge edge being



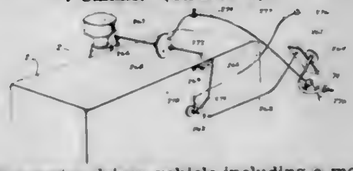
provided by forming that portion of the sheet into a tubular rigid portion to which hinges are secured, and the reinforcing member secured along the said free edge clamping a projecting loop of resilient material which extends the length of the door.

2,642,165
PEDALLY CONTROLLED POWER-OPERATED VEHICLE BRAKE APPLYING APPARATUS
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application July 8, 1949, Serial No. 103,575
10 Claims. (Cl. 192—3)



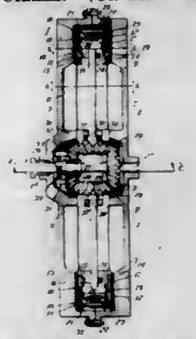
1. In a braking and throttle control system for a vehicle having brakes and driven by an engine of which the power output is controlled by a throttle; a throttle control pedal operably connected with said throttle and having a foot pad depressible for normally opening the throttle to increase the engine power output; a brake control pedal having a foot pad, said pedals having release positions wherein said pads are substantially in a common plane and being disposed sufficiently contiguous that an operator's foot can engage them both for simultaneous depression; a source of liquid under pressure; a hydraulic pressure booster comprising a chamber and a work member subjected to the pressure of fluid in such chamber and advanceable thereby when the chamber is communicative with said source; means including a valve adapted to establish communication between said source and said chamber; force transmitting means interposed between said work member and the vehicle brakes for applying thereto an operating force in accordance with the amount of advancement of said work member; means yieldably urging the valve into a neutral position wherein it precludes communication between said chamber and said source; a manually advanceable member connected with said valve and operable when advanced for opening the valve to establish communication between said chamber and said source, said work member being advanceable relatively to said manually advanceable member responsively to such communication to replace the valve into said neutral position incident to advancing a distance correlated with the distance of advancement of the manually advanceable member; means for applying to said manually advanceable member a diminutive retractive force proportional to the operative force applied to the brakes by said work member; means connecting the brake pedal with said manually advanceable valve operating member to advance the same pursuant to depression of such brake pedal; and means operable responsively to an increase of pressure in said chamber to a value less than that required for advancing the work member to prevail over said accelerator pedal for closing the throttle.

2,642,166
MOTOR CONTROL
Ray C. Strauss, Ann Arbor, Mich.
Application September 8, 1944, Serial No. 553,274
7 Claims. (Cl. 192—3)



1. In a motor driven vehicle including a motor, a carburetor, a throttle valve for the carburetor and means for braking the vehicle including a brake pedal, the combination of an accelerator pedal, a vacuum chamber connected with the accelerator pedal and with the throttle valve and adapted to transmit movement of the accelerator pedal to the throttle valve and a valve operatively connected with the brake pedal which opens the vacuum chamber to the atmosphere and which connects the vacuum chamber to a source of vacuum upon movement of the brake pedal.

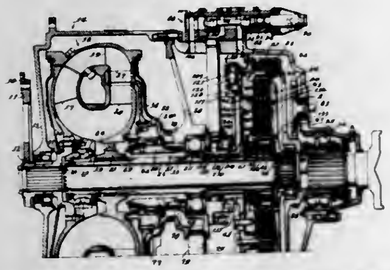
2,642,167
AUTOMATIC CLUTCH
Earl W. Brown, Miami, Fla.
Application March 2, 1951, Serial No. 213,613
8 Claims. (Cl. 192—3.2)



1. In an automatic clutch for establishing a driving connection between two shafts, the com-

bination of an annular fluid-tight casing secured to one of said shafts for rotation therewith and including a plurality of radially extending inwardly directed vanes; a rotor unit connected to the other of said shafts and including a plurality of radially extending vanes cooperating with the vanes of said casing to form a fluid coupling, said rotor vanes being mounted for rocking movement about their longitudinal axes and being resiliently biased to an initial angular position; means combined with said rotor for automatically causing said rotor vanes to turn about their longitudinal axes away from said initial angular position as the resistance in said fluid coupling against rotation of said rotor as a unit increases; a friction clutch connecting said rotor to said casing and being normally biased to disengaged position, and cam means movable with said rotor vanes for causing said friction clutch to engage when said rotor vanes are rotated about their longitudinal axes from said initial position.

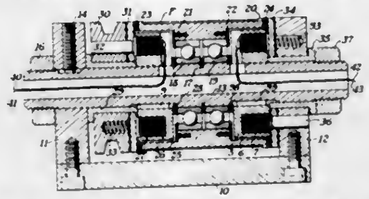
2,642,168
POWER TRANSMISSION
James B. Black and Wilbur F. Shurts, Rockford, Ill., assignors to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application July 20, 1950, Serial No. 175,034
15 Claims. (Cl. 192—3.2)



1. In a power transmission, the combination of a hydraulic power circuit means including an impeller arranged for connection to a power source and a turbine, a member adapted for connection to an output shaft, first hydraulically actuated clutch means for connecting the turbine to the member, second hydraulically actuated clutch means shiftable between positions providing and interrupting a direct drive between the source and member, the first and second clutch means being located aft of the turbine and the second clutch means when engaged driving through the first clutch means, and a hydraulic pressure system including both clutch means and a control means, the control means being operable to determine the actuation of both clutch means.

2,642,169
COMBINED ELECTROMAGNETICALLY ACTUATED CLUTCH AND BRAKE
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 28, 1950, Serial No. 203,190
6 Claims. (Cl. 192—18)

1. A combined electromagnetic friction clutch and brake for a tape-feeding member comprising in combination a stationary hollow spindle; a tape-feeding member in the form of an open-ended drum rotatably mounted on said spindle intermediate its ends; a friction facing on each end of said drum, a driving armature rotatably mounted on said spindle at one end of said drum and movable axially of the spindle; means normally moving said armature facewise into physical contact with the friction facing on one end of said drum with a nominal pressure to produce an initial driving torque on said drum but which is insufficient to normally drive the same; a first electromagnet fixedly mounted on said spindle coaxially with and within the open end of said drum engaged by said driving armature and disposed with the effective face of its core spaced slightly axially of the spindle from the plane occupied by the face of the armature and said friction facing to provide a small air gap between the armature and core of the magnet which will be bridged by a magnetic flux upon energization of the magnet to pull the armature toward said friction facing and increase the driving torque on said drum to drive it; a braking armature mounted on the other end of said spindle to move axially thereof but not rotate; means normally moving said braking armature axially of said spindle and into facewise

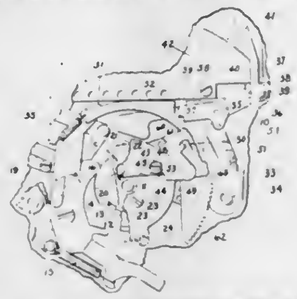


physical contact with the friction facing on the other end of said drum with a nominal pressure to produce a braking torque sufficient to overcome said initial driving torque of said driving armature but insufficient to overcome its driving torque when its magnet is energized, a second electromagnet coaxially and fixedly mounted on said spindle within the other end of said drum and disposed with its effective core face spaced slightly axially of said spindle from the plane occupied by the face of the braking armature and the friction facing engaged thereby to provide a small air gap between the armature and core of the magnet which will be bridged by a magnetic flux upon energization of the magnet to pull the armature into contact with the friction facing with greater pressure and increase the braking torque on said drum to stop it; and electrical leads extending through said hollow spindle and mechanically attached to the terminals of the coils of said magnets, whereby power can be fed to said magnets to energize the same in alternate relation for rapidly stopping and starting said drum as desired.

2,642,170
COIN LOSS PREVENTER
Lawrence Michaels, Fort Mitchell, Ky., assignor to The Michaels Art Bronze Company, Covington, Ky., a corporation of Kentucky
Application September 29, 1949, Serial No. 118,650
9 Claims. (Cl. 194—45)

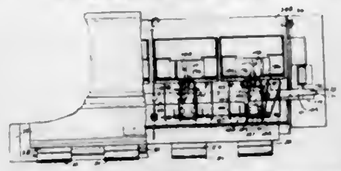
1. In a coin loss preventer for a coin released, manually settable parking meter the combination with a meter setting mechanism including an indicator member yieldably urged to zero position in accordance with the passage of time, a spring returned manual pusher disc for moving said indicator away from zero position, a latch lever yieldably urged to a position blocking manual operation of said disc, means on the lever for arresting deposited coins in the path of said pusher disc for displacement of said coins

and movement of said latch lever out of blocking position and a coin stop pawl controlled by the latch lever and adapted to cooperate with the indicator member for permitting predetermined stepwise setting movements of the indicator on successive coin released manual operations of the pusher disc, of a pivoted arm biased toward the end of the latch lever and held thereby in elevated position while the latch lever is in said blocking position, said arm, upon rocking movement of the latch lever out of blocking position, yieldably assuming a position in the path of return movement of the latch lever for holding the latter out of blocking position, means movable with the indicator for engagement with the coin stop pawl and yieldably permitting limited move-



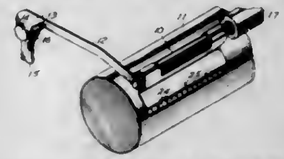
ment of the indicator relative thereto to define a permitted limit of setting movement of the indicator, a plate cam pivoted on the indicator and resting on the last named means for pivotal movement as the indicator moves the plate relative to said means, said plate cam having a portion extending beneath the pivoted arm and serving to lift the arm out of the path of return movement of the latch lever, including a toothed ratchet segment on the indicator and a cooperating catch pawl pivoted on the said arm whereby limited movement of the indicator in accordance with the passage of time effects shifting of said catch pawl and the arm for moving the arm out of the path of return movement of the latch lever.

2,642,171
SELECTIVE ARTICLE VENDING MACHINE
Kuno Edgar Hamann, Long Island City, N. Y., assignor to Joseph A. Lamprecht, Elizabeth, N. J.
Application December 14, 1948, Serial No. 65,179
4 Claims. (Cl. 194—54)



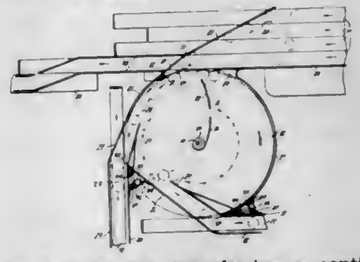
3. In a vending machine having article columns, article ejectors cooperating therewith and an interposer moved by each injector, a lock out chain comprised of two series of superimposed elongated movable elements of rectangular cross-section disposed in a longitudinal guideway, each element of the upper series being positioned atop its corresponding element in the lower series, the elements at one end of said chain abutting a fixed barrier and the elements at the other end of said chain being movable by any interposer entering said chain, one of said last mentioned elements in the lower series carrying means to lock the coin return bar of a coin control carried in said machine and the other of said elements in the upper series carrying lever means adapted to cam against a coin positioned in said coin control for unlocking the machine and initiating a vending operation, each of the elements in the upper of said series having its edge, adjacent to the corner facing away from said fixed barrier and nearest to a cooperating interposer, notched so that an operator cannot prevent the lock out chains from resetting and thereby defraud the machine.

2,642,172
ERASING SHIELD
Sidney Felber, New York, N. Y.
Application October 10, 1951, Serial No. 250,633
14 Claims. (Cl. 197—181)



4. The combination with the swingable roller-carrying paper-hold-down bar of a typewriter, of an erasing shield swingably and slidably mounted along one edge thereof on the bar, said shield being of substantially lesser length than that of the bar.

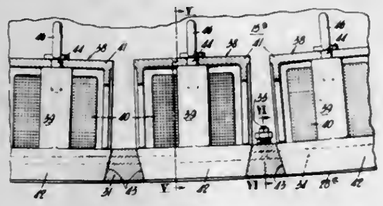
2,642,173
DEVICE FOR TRANSFERRING TRAVELING ARTICLES
Frederick W. Wehmiller, Ladue, and William J. Nekola, Normandy, Mo., assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri
Application June 27, 1949, Serial No. 101,652
16 Claims. (Cl. 198—30)



1. In a device for transferring a continual stream of traveling articles, a rotary table having a peripheral inlet to receive the traveling articles and a plurality of peripheral outlets to discharge said articles, the articles being loosely seated upon and carried by the rotary table from said inlet to the plurality of peripheral outlets, a traveling supply conveyor leading to said inlet, traveling delivery conveyors located in separate paths leading from said peripheral outlets to provide for distribution of the traveling articles, a deflecting baffle extending over said rotary table to direct some of the traveling articles from the first outlet to one of the delivery conveyors, said first outlet being intermittently clogged by articles se-

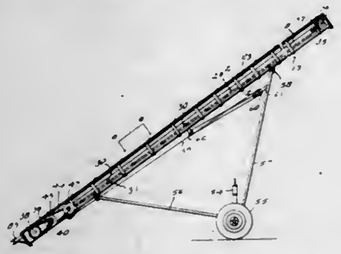
lected for its delivery conveyor and a second deflecting baffle extending over said table to direct articles overflowing from said first outlet to the delivery conveyor at a second outlet, the inlet end of said second baffle being more remote from the periphery of said table than the inlet end of the baffle for the first outlet.

2,642,174
MAGNETIC RAIL CONVEYER
Dario Buccicone, Gary, Ind.
Application April 13, 1951, Serial No. 220,937
6 Claims. (Cl. 198—41)



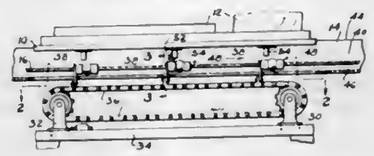
1. A magnetic rail conveyor comprising a pair of side plates, a power driven sheave and an idler sheave rotatably mounted at opposite ends of said side plates, a bottom member fixed between the lower edges of said side plates and containing a pair of longitudinal grooves in its underside, wear strips housed in said grooves, fastening means adjustably fixing said wear strips to said bottom member, a pair of belts surrounding said sheaves and received in said grooves and riding against said wear strips, said bottom member having downwardly tapered apertures along its center line and cut-outs in its edges and a plurality of electromagnets having integral elongated pole pieces received in said apertures and housings extending into said cut-outs, said magnets being removable by lifting them from the bottom member without otherwise dismantling the conveyor, adjustment of said fastening means controlling the spacing between the underfaces of said belts and said pole pieces.

2,642,175
PORTABLE CONVEYER
Thomas Ryan Mahoney, Greenville, Ohio, assignor, by mesne assignments, to The Chase Foundry & Manufacturing Company, Columbus, Ohio
Application January 30, 1950, Serial No. 141,249
2 Claims. (Cl. 198—121)



1. A portable elevator comprising an elongated frame, a pair of endless conveyor chains having upper and lower runs, driving means for said chains carried by said frame, spaced cleats connected between said chains, a wheeled frame, a pair of links pivotally connected between said first frame and said wheeled frame, a second pair of links pivotally connected to said wheeled frame and extending oppositely from said first pair of links, rollers carried by said second pair of links engaging beneath said first frame, and means for moving said second links relative to said first frame to thereby raise or lower the latter, said means comprising a sheave secured to said second links, a pulley connected to the underside of said first mentioned frame, a shaft carried by said first mentioned frame, a flexible member formed about said sheave and pulley and adapted to be secured to said shaft and selectively wound and unwound about said shaft upon rotation thereof to vary the angular relation of said second mentioned link relative to said first mentioned frame, a gear carried by said shaft, a second shaft carried by said frame at right angles to said first mentioned shaft, a worm gear meshing with said first gear carried by said second shaft oppositely disposed spaced bevel gears carried by said second shaft spaced from said worm gear, a driven bevel gear selectively engageable with one of said opposite bevel gears, means for moving said second shaft from central gear disengaged position to selectively engage one of said oppositely disposed bevel gears selectively to rotate said second shaft and hence said first shaft in either of two directions, said last mentioned means including a double collar on said second shaft and a manually operable pivoted shifting fork engaging said collar, and means including a collet secured to said second shaft and a coil spring surrounding said second shaft positioned between said collet and said worm gear whereby said shaft may be moved relative to said worm gear without affecting the driving connection therebetween.

2,642,176
CONVEYER SYSTEM
Albert R. De Burgh, Redondo Beach, Calif.
Application September 2, 1947, Serial No. 771,587
15 Claims. (Cl. 198—135)



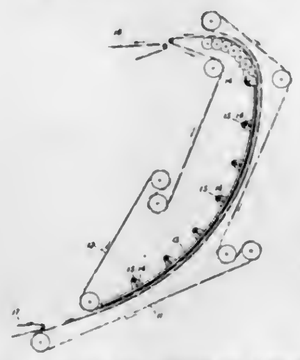
1. A conveyor system comprising, in combination: a longitudinal guideway; elongated, flexible power transmission means disposed in said guideway and movable therealong; a series of guide elements affixed to said means and spaced apart along the length thereof; rotatable bearing elements disposed between said guide elements and the guideway so as to reduce friction between the same; an endless flexible drive means disposed parallel to said means partway along its length; spaced engaging elements distributed along only a portion of the length of said drive means and adapted upon movement of said drive means to move said means by contact with said guide elements during part of the cycle of movement of said drive means and to leave said means at rest during another portion of said cycle of movement; and motor means adapted to continuously move said drive means.

2,642,177
SELECTIVE DISTRIBUTING APPARATUS
Herbert L. Glaze, South Pasadena, and Robert C. Beltz, Glendale, Calif., assignors, by mesne assignments, to Read Standard Corporation, a corporation of Delaware
Application May 23, 1949, Serial No. 94,906
3 Claims. (Cl. 198—146)



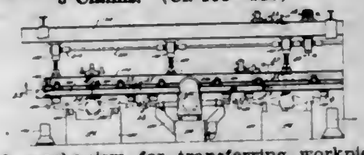
2. In a distributing apparatus, the combination of: a conveyor comprising a plurality of receptacles respectively rotatable into unloading positions; a tripping device movable between an extended position wherein it is disposed in the path of said receptacles and is engageable thereby to rotate said receptacles into their respective unloading positions and a retracted position wherein it is out of said path and not engageable by said receptacles; an actuator including a crank and an electric motor; means operatively connected to and driven by said conveyor for periodically energizing said electric motor at a frequency proportional to the speed of said conveyor; means for deenergizing said electric motor after it has rotated said crank through a part of a revolution; and means connecting said tripping device to said crank.

2,642,178
CONVEYER APPARATUS
Joseph Francis Naylor, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application June 12, 1950, Serial No. 167,667
In Great Britain June 13, 1949
8 Claims. (Cl. 198—165)



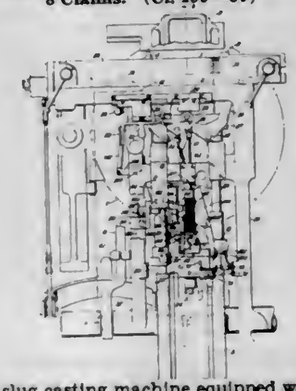
1. An apparatus for conveying fragile articles from one level to another level comprising in combination two conveyor belts adapted for carrying said articles therebetween, a deflector plate defining part of a curved path in which said conveyor belts are constrained to move, and a set of resilient rollers defining the remainder of said curved path, said rollers being grouped in a curve of smaller radius than that part of the curved path defined by said deflector plate.

2,642,179
TRANSFER APPARATUS
Ralph E. Cross, Grosse Pointe, Mich.
Application July 25, 1947, Serial No. 763,531
3 Claims. (Cl. 198—218)



2. A mechanism for transferring workpieces through a series of equispaced stations comprising work-supporting means associated with each of said stations and disposed in substantially aligned equispaced relation, pairs of work-carrying arms for said stations arranged with the pairs of arms spaced according to the spacing of said work-supporting means positioned to straddle a workpiece on said work-supporting means and provided with V blocks movable under the terminal portions of said workpieces, an elongated slide common to and carrying all of said work-carrying arms mounted to travel in a direction substantially parallel to said series of stations for moving said arms back and forth between adjacent stations, a hoisting mechanism carrying said slide for moving the latter together with the work-supporting means carried thereby vertically with respect to said work-supporting means, and spring-biased pressure pads carried by and movable with said slide engageable with the workpieces intermediate the ends thereof when the hoisting mechanism is operated to lower the slide, said pressure pads being engageable with the workpieces before the V blocks are positioned to engage under the ends of the workpieces whereby said pads press the workpieces downwardly against the V blocks when the hoisting mechanism is operated to raise the slide.

2,642,180
SLUG CASTING MACHINE
Joseph F. Krusberger, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application September 20, 1949, Serial No. 116,700
8 Claims. (Cl. 199—50)



1. A slug casting machine equipped with aligning mechanism for the composed line and with a melting pot movable to and from casting position and including, in combination, a pair of

line clamping jaws movable one toward the other in quadding, mechanism for effecting such quadding movement of the jaw, a locking device to hold the jaw in its line contacting position, and means independent of the jaw moving mechanism and actuated by the movement of the melting pot to casting position for effecting the engagement of the locking device after the aligning action has taken place.

2,642,181
SPACEBAND AND METHOD OF MANUFACTURING SAME
George Biegert, Elmhurst, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application September 13, 1949, Serial No. 115,525
2 Claims. (Cl. 199—68)



1. A justifying spaceband including, in combination, a pair of long and short relatively movable complementary wedge-shaped members presenting inner surfaces in bearing contact, the short member being provided on its inner face with a raised portion formed in its opposite edges with machine ground grooves elongated in the direction of movement of the wedge-shaped members, said grooves presenting a first pair of extended guide walls parallel with the inner face of the short member and a second pair of parallel extended guide walls perpendicular to said inner face, and the long member being formed with a longitudinal slot to accommodate the raised portion of the short member, said slot being defined at its opposite edges by machine ground flanges coextensive with the bearing surfaces of the long member, said flanges presenting opposed parallel edges making extended sliding bearing contact with the second pair of groove walls formed in the raised portion of the short member to prevent any bodily or tilting edgewise movement of the wedge-shaped members with reference to each other, and said flanges further presenting outer face portions making extended sliding bearing contact with the first pair of groove walls formed in the raised portion of the short member to prevent any bodily or tilting facewise movement of the wedge-shaped members with reference to each other.

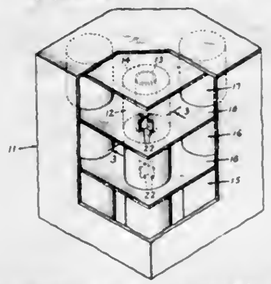
2,642,182
GREETING CARD AND ENVELOPE ASSEMBLY
William C. Baynes, Washington, D. C.
Application October 23, 1947, Serial No. 781,579
2 Claims. (Cl. 206—63)

1. The combination comprising a French-folded greeting card, an envelope of greater dimension than the card interleaved between the two sheets of said card with adjacent edges of the envelope respectively abutting the horizontal and vertical folds of said card when the card is closed, a separate envelope retaining member for supporting the projecting horizontal edge portion of the envelope at a point remote from the vertical fold of the card, said member being formed by an elongated flexible strip bent on itself to pro-



vide two overlying legs and arranged so that said horizontal edge portion of the envelope rests in the bent portion between the two legs and the legs engage the opposite sides of the envelope under the sheets of said card, and a direct adhesive connection between one leg of said member and the adjacent unexposed face of the card, said member having price indicia on a portion not covered by the card.

2,642,183
CARTON
Louis F. Prossen, Cliffside, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application January 25, 1950, Serial No. 140,376
8 Claims. (Cl. 206—65)

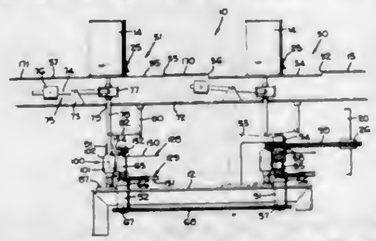


1. A container for yarn comprising a carton, layers of yarn packages in said carton, a plurality of apertured shelves arranged in said carton in parallel relationship to each other and each supporting a layer of yarn packages, and a fitting received in the apertures of said shelves, said fitting comprising a plurality of unitary members received in the apertures of said shelves to form crisseross extensions protruding from both surfaces of said shelves engaging said yarn packages and preventing relative movement thereof.

2,642,184
MECHANICAL WEIGHT CLASSIFIER
Albert Horner and Paul E. Story, Kapaa, Kauai, Territory of Hawaii, assignors to Hawaiian Canneries Company, Limited, Kapaa, Territory of Hawaii, a corporation of Hawaii
Application December 5, 1950, Serial No. 199,176
6 Claims. (Cl. 209—121)

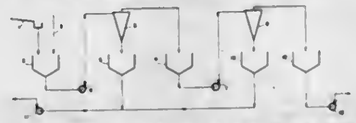
1. In a machine for classifying articles by weight, the combination of: a trackway along which articles may be propelled; a scales including a counter-balanced platform comprising

a section of said trackway and normally disposed on the same level therewith; a conveyor having arms for propelling articles along said trackway and over said platform, the edge of said trackway at the far side of said platform being on a bias relative to the direction of travel of said article along said trackway whereby a substantial depression of said platform causes an article being propelled over said platform to engage said edge and be diverted laterally from said trackway; spring means normally under restraint and connected with said platform to depress the latter when said spring means is released from re-



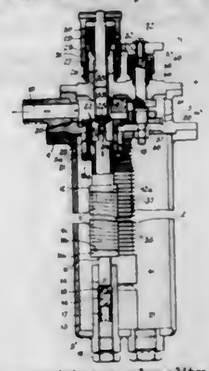
straint; cocking means for placing said spring means under restraint; trigger means from restraint for releasing said spring means; and means moving in timed relation with said conveyor and responsive to an article slightly depressing said platform to actuate said trigger means to release said spring means and produce a substantial depression of said platform to divert said article laterally from said trackway and to then actuate said cocking means to place said spring means under restraint again before said conveyor delivers another article onto said platform.

2,642,185
PROCESS FOR THE REFINING OF STARCH
Freerk J. Fontein, Heerlen, Netherlands, assignor to Stamicarbon N. V., Heerlen, Netherlands
Application January 11, 1951, Serial No. 205,598
In the Netherlands January 15, 1949
13 Claims. (Cl. 209—211)



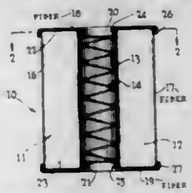
1. The method of refining a starch suspension containing starch particles of different sizes which comprises, continuously feeding said suspension under pressure tangentially into and adjacent to an infeed end of a confined circular space having a maximum diameter at said infeed end and decreasing in diameter towards its opposite end, said suspension thereby being subjected to vortical action within said space by rotating therewithin at a high velocity increasing from the periphery to the centre of the space, employing an infeed pressure selected over the range of 0.2 to about 20 kilograms per cm.^{2}, employing a circular space having a maximum diameter selected over the range of 3 mm. to about 30 mm., continuously withdrawing through a central opening at said infeed end a dilute fraction containing substantially only starch particles below a specific size, continuously withdrawing through an aperture at said opposite end axially aligned with said central opening a concentrated fraction containing substantially only particles of and above said specific size, and predetermining said specific size at not substantially greater than 10 microns by selecting said infeed pressure appropriately to said maximum diameter employed.

2,642,186
FILTER
Charles Samuel Garland and Francis Heron Rogers, London, England
Application November 30, 1950, Serial No. 198,258
In Great Britain December 1, 1949
16 Claims. (Cl. 210—152)



1. A filter comprising a plurality of rotatably mounted filter elements forming gaps between them for passage of a liquid to be filtered and constituting a filtering member, means for relatively adjusting said elements axially to reduce the gaps between them for filtration and for relatively opening the gaps for cleaning of the filter elements, a plurality of cleaning members mounted rotatably for insertion into respective gaps between the filter elements, and means controlled by said adjusting means for relatively rotating the filter elements and cleaning members only while the filter elements are relatively adjusted axially to open the gaps to remove foreign matter accumulating in said gaps during filtration.

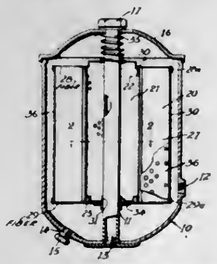
2,642,187
FILTER UNIT CONSTRUCTION
Albert Edward Bell, Union, N. J., assignor to Purolator Products, Inc., Newark, N. J., a corporation of Delaware
Application January 11, 1950, Serial No. 138,050
4 Claims. (Cl. 210—169)



1. A replaceable filter unit of the character described comprising a pleated filter body of resin-impregnated paper arranged in tubular form and with the pleats extending substantially radially, end discs of the same material as the filter body closing off opposite ends of the body, said discs being bonded by a thermosetting resin adhesive

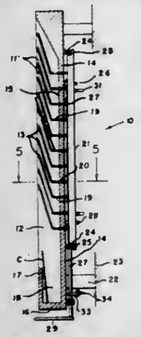
to opposite end edges of said pleats, said adhesive lying between under faces of said discs and corresponding end edges of said pleats in contact therewith, and having turned down rims bonded adhesively by thermosetting resin adhesive to folds of the pleats, said adhesive lying between inner faces of the turned down rims and the folds of the pleats in contact therewith.

2,642,188
REPLACEABLE FILTER UNIT CONSTRUCTION
Ralph R. Layte, Westfield, and Albert Edward Bell, Union, N. J., assignors to Purolator Products, Inc., Rahway, N. J., a corporation of Delaware
Application November 16, 1951, Serial No. 256,718
9 Claims. (Cl. 210—169)



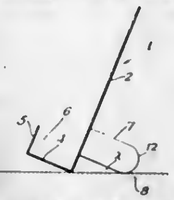
1. In a replaceable filter element, a pleated body of filtering material having its pleats extending radially of its axis, end discs adhesively secured to the opposite ends of said pleated body, said end discs having bent-over edges defining retaining rims fitting over the outer folds of the pleats, springy guide means independent of both said end discs and adjacent one of said end discs, said latter end disc having a central opening provided with a bent-over, inwardly extending, completely annular rim acting as a sealing ring, and said springy guide means being secured inwardly of the opening of said latter end disc and adjacent thereto.

2,642,189
TIMECARD RACK
Merl L. Goodman, Adams County, Colo.
Application July 25, 1952, Serial No. 300,867
10 Claims. (Cl. 211—55)



1. A time card rack including, in combination, a substantially vertical row of time-card pockets inclined outwardly from the rack, a chute at the rear of said row and communicating with the bottoms of said pockets, a trough at the bottom of said chute, obstructions at bottom of pockets and means for withdrawing all of said obstructions, whereby to permit cards to drop from the pockets into the chute and thence into the trough.

2,642,190
ARTICLE HOLDER
James F. Kelly, Chicago, Ill.
Application November 24, 1950, Serial No. 197,277
4 Claims. (Cl. 211—88)



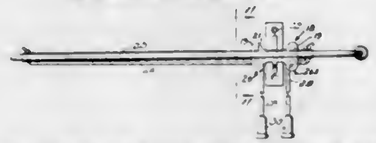
3. An article holder constructed of one-piece sheet material which comprises, a relatively elongated rear panel, a forwardly extending unitary base panel disposed at substantially right-angles to the plane of said rear panel at its lower edge, a unitary front panel disposed at the forward edge of said base panel and substantially parallel to said rear panel, a pair of integral ears extending rearwardly from said rear panel at opposite side edges of said rear panel, said ears being relatively elongated and being of greater width and length than thickness and the longitudinal axis of said ears being disposed at substantially right-angles to said respective edges, the planes of said ears being substantially at right angles to the plane of the rear panel and the plane of the base panel, the angle included between the longitudinal axis of an ear and a line drawn from the juncture of the lower edge of the rear panel and the rear edge of the base panel to substantially the end of an ear, and the angle included between a side edge of the rear panel and a line drawn between the upper edge of the rear panel and substantially the end of an ear being substantially equal and being about 25°.

2,642,191
BRACKET RECEPTACLE
Lawrence Milton Hobson, Portland, Oreg.
Application January 29, 1951, Serial No. 208,411
3 Claims. (Cl. 211—89)



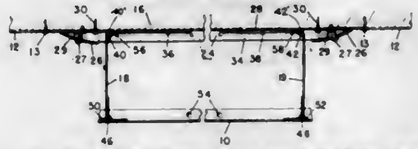
1. An oblique L-shaped bracket for attachment to the plane surface of a wall, cabinet door, or the like to bound and to define therewith a receptacle of right triangular cross section, comprising an integral elongated body having a floor member defining one leg of the triangle, a holding plate defining the hypotenuse, and a flange member perpendicular to and pendent from the floor member, said flange member being pierced by attachment apertures for mounting said bracket, and a small L-shaped retention bracket carried by said floor member oblique to said holding plate and defining with the latter a second receptacle, said retention bracket terminating in abutment with said holding plate.

2,642,192
DRAPERY CRANE
Lois L. Whitney, Chicago, Ill.
Substituted for abandoned application Serial No. 763,677, July 25, 1947. This application April 17, 1952, Serial No. 282,840
6 Claims. (Cl. 211—94)



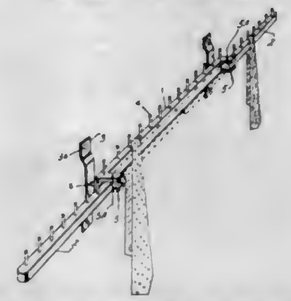
1. A drapery crane including a mounting bracket provided with a supporting member formed with an integral track bed; a first bar mounted for slidable movement in said track bed; means overlying said first bar for retaining the same in said track bed; a crane bar spaced from said first bar and secured to the end regions thereof; and means including a pair of sheaves mounted on said supporting member beneath the track bed and each having an oppositely-trained pull cord thereon, each said cord being secured to an end part of said first bar for shifting said crane bar longitudinally in opposite directions along the track bed.

2,642,193
FOLDING TOWEL BAR
Gordon H. Severin, Oklahoma City, Okla.
Application October 8, 1948, Serial No. 53,537
7 Claims. (Cl. 211—123)



1. A folding rack comprising an elongated base adapted for attachment to a wall, an elongated rack member adapted to lie parallel and close to said base in closed position and parallel to and spaced from said base in open position, a pair of rack-supporting arms hinged to said rack member one near each end and each arm at its inner end being slidably attached to said base so that the inner ends of said arms slide toward each other when said rack member is pushed toward said base and away from each other when same is pulled away from said base, each arm not exceeding one-half the length of said rack and their inner ends sliding within opposite halves of said base whereby when said rack is closed the arms lie between and parallel to said rack and base, catches for positioning the inner ends of said arms on said base in open position at a distance from each other equal to their distance on said rack member so that the arms are parallel to each other and perpendicular to the base and rack, and means for preventing angular motion between arms and rack when in open position.

2,642,194
FOLDABLE NECKTIE RACK
Matthew P. Boltauzer, Willoughby, Ohio
Application June 17, 1950, Serial No. 168,725
1 Claim. (Cl. 211—104)

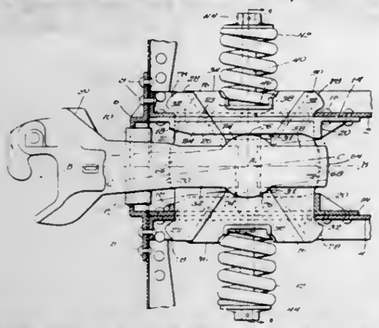


A necktie rack adapted to be horizontally fastened to a wall for holding neckties, said rack comprising, a single elongated supporting base member having opposite ends and a front, top, and back surface, a pair of supports, one secured on each end of said base member and adapted to hold said base member at a distance from the wall, a pair of vertically spaced integral end portions on each end of said front surface and extending forwardly therefrom and at right angles thereto, two straight arms each having a length equal to one-half the length of the base member and having one end pivoted to a pair of said end portions to position said arms in spaced relation and parallel to the base member when the arms are hingedly moved into an end to end straight line formation between the end portions, said arms and said base member having a plurality of pins extending vertically upwardly from the top surfaces thereof with the pins equally spaced apart.

2,642,195
DRAFT ARRANGEMENT
Carl E. Tack, Chicago, Ill., Fred E. Bachman, St. Louis, Mo., and Frank H. Kayler, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application November 10, 1949, Serial No. 126,493
In Colombia November 10, 1948
1 Claim. (Cl. 213—38)

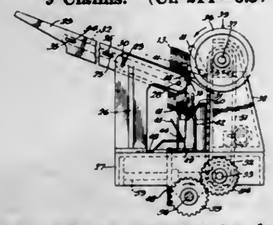
In a draft rigging, a coupler having a yoke with a pocket, a support including cheek plates disposed at opposite sides of said yoke, a draft gear in said pocket including followers arranged one at each end of said pocket, front and rear stop lugs on said cheek plates affording seats for the respective followers, concave substantially spherical surfaces at opposite ends of said pocket aligned longitudinally of said yoke, convex substantially spherical surfaces on the respective followers of a form complemental to said concave spherical surfaces, said surfaces being defined from a common center, spring pressed side wedges aligned with and on opposite sides of said center and in wedge engagement between said followers, spaced inwardly facing flanges on the respective plates receiving said followers and wedges therebetween and presenting on their inner ends flat surfaces lying in substantially parallel planes ex-

tending longitudinally of said structure, and arcuate convex surfaces on said yoke defined from a common axis passing through said center arranged to cooperate with said flat surfaces to afford a pivot for said coupler on said axis under certain conditions, said followers being in line engagement with opposite sides of each of said



wedges and along planes substantially radially disposed from said center, said pocket being deeper at its front end than at its rear end, as seen in vertical cross section, to accommodate vertical angling of the yoke along the engaged spherical surfaces of the pocket and one follower during imposition of pulling or buffing forces on the yoke.

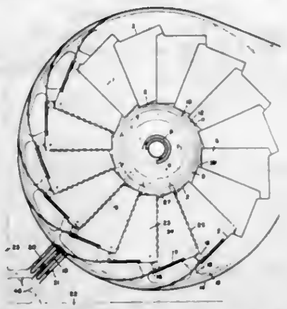
2,642,196
CARTON FEEDING MACHINE
Raymond Vahle, Tappan, N. Y., assignor, by mesne assignments, to Robert Gair Company, Inc., New York, N. Y., a corporation of New York
Application October 18, 1946, Serial No. 704,247
9 Claims. (Cl. 214—8.5)



1. In an erecting machine for folded carton blanks having parallel plies, a hopper comprising inclined parallel supporting bars from which the blanks are vertically suspended for sliding movement toward the lower ends of the bars, an endwise adjustable strip carried by each bar below its upper edge and formed with means for holding the leading blank in a fixed position at one end of the hopper, and means for downwardly displacing each blank in turn from its fixed position at the end of the hopper.

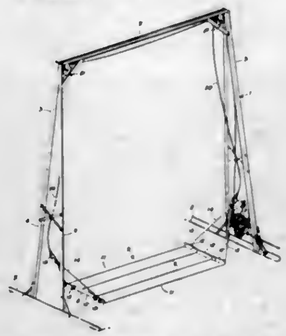
2,642,197
FREIGHT HANDLING SYSTEM
Bruce A. Hainsworth, Shaker Heights, Ohio, assignor to The H. K. Ferguson Company, Cleveland, Ohio, a corporation of Ohio
Application October 15, 1947, Serial No. 779,938
2 Claims. (Cl. 214—16)

1. In a freight terminal and transfer system, the combination of a generally annular building for storage of goods, a railroad track and a motor truck roadway disposed concentrically around said building, alternate sidings and branch roadways leading from said track and roadway respectively to circumferentially spaced points around said building, said building at such circumferentially spaced points thereabout having two series of platforms to which said sidings and branch roadways respectively lead and which are elevated with respect to the respective sidings and branch roadways, said building also having an annular platform around its inner periphery which is elevated



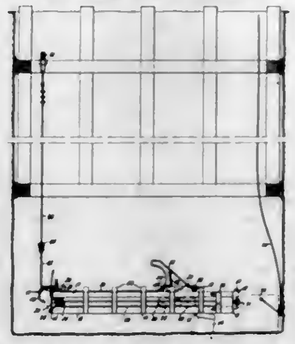
with respect to the area bounded thereby, a tunnel under said building, track, and roadway providing a separate motor truck roadway which surfaces at the outer end of said tunnel at a point outward beyond said track and said motor truck roadway, a helical ramp system leading from the inner end of said tunnel to such area, and an annular driveway in such area defined by said annular platform and the periphery of said ramp system for travel of trucks and trailers thereon and for backing up of the trucks and trailers against said annular platform at any desired points around the inner periphery of said annular platform.

2,642,198
HOISTING CRADLE
Aloys T. German, Humphrey, Nebr.
Application September 16, 1948, Serial No. 49,600
5 Claims. (Cl. 214—46.34)



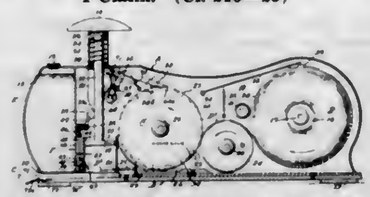
1. In a hoist for vehicles and the like a hoisting cradle comprising a wheel-receiving seat, arms hingedly attached to either side of said seat for gripping wheels therebetween, and bales swivelly connected to either side of said arms outwardly of said seat, said bales being connected to and operative through hoisting means for moving said arms into wheel-engaging position and lifting said seat through said arms, and means connected to said bales and opposing said hoisting means for normally maintaining said bales clear of said seat.

2,642,199
SHAFT MUCKER
Edwin B. Royle, Salt Lake City, Utah, assignor to The Elmco Corporation, Salt Lake City, Utah, a corporation of Utah
Application January 31, 1949, Serial No. 73,841
5 Claims. (Cl. 214—131)



1. An excavating machine comprising a main frame, spaced parallel trackways forming the sides of said frame, said trackways comprising upper and lower rails, ribs joining said upper and lower rails, a carriage mounted for traversal along said rails, means to traverse said carriage along said rails, said carriage comprising spaced side members between the trackways and a transverse member, carriage wheels rotatably mounted at each end of the carriage side members, pivotal mounting means carried by said spaced side members, a shovel bucket secured on said pivotal mounting means between the rails to swing between the trackways, and drive means carried by the carriage for swinging the bucket between the trackways in an arc extending from a digging position below the carriage spaced side members to a dumping position above said side members.

2,642,200
STAMP APPLYING MACHINE
Fred Gehring, San Francisco, Calif.
Application June 28, 1949, Serial No. 101,697
1 Claim. (Cl. 216—25)



In a stamp-applying machine: a stamp-delivering chute; a reciprocable shank having a presser foot disposed in the chute; a rotatably mounted feed roller having ratchet teeth fashioned around the periphery thereof; a pawl assembly pivotally mounted on the machine and engaging with the ratchet teeth; said pawl being spring biased to urge the rotation of the feed roller a predetermined distance to feed a stamp for a distance of one-half its height; a cam fixed to the reciprocable shank and adapted to contact one end of the pawl assembly upon both upward and downward movement of the shank whereby the pawl assembly will be retracted by the cam to the succeeding ratchet tooth for each down and up movement of the reciprocal shank and allow the rotation of the roller due to the biasing force after the cam has passed the pawl assembly for each down and up movement; whereby the stamp is advanced one-half its height on the down movement of the shank and advanced the other half of its height on the up movement of the shank.

2,642,201
WALL-OUTLET BOX
Phillip Temple, Williams Lake, British Columbia, Canada
Application October 9, 1950, Serial No. 189,159
In Canada May 23, 1950
2 Claims. (Cl. 220—3.6)

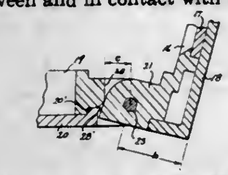


1. In combination a wall-outlet box comprising a body consisting of an end apertured back wall provided at each end thereof with an exterior flange, said apertures being adjacent each flange, and two side walls integral with said back wall, each end of the side walls being provided with an inwardly-extending flange lying contactingly in alignment with the corresponding end flange of said back wall and further provided with an inwardly-extending lug in spaced relationship to said side wall end flanges; movable end plates, each provided at its inner end with a pair of external lugs positioned in the apertures in said back wall to form hinges therewith, the said end plates adapted to snap by the lugs carried by said side walls into contact with the flanges of said side walls and the flanges of said back wall to close the ends of said box; an external flange carried by each end plate and adapted to contact the outer side of a supporting wall; a screw mounted in each of said last-mentioned flanges to constantly lie in parallel relationship to and beyond the outer side of said end plates, and a plate mounted on each of said screws in parallel relationship to the flanges carried by said end plates and adapted to be clamped against the underside of said supporting wall.

2,642,202
COMPACT AND SIMILAR ARTICLE
Clifton J. Cowan, Providence, R. I., assignor to Paul Flato Sales Corporation, New York, N. Y., a corporation of New York
Application October 19, 1951, Serial No. 252,110
3 Claims. (Cl. 220—31)

1. A compact comprising a top box member having downwardly extending marginal walls, a first frame secured with said member, having a hinge lug extending downwardly therefrom at the rear thereof, longitudinally therealong, spaced from the side edges of said frame and downwardly from the rear wall of said top box member; said hinge lug extending rearwardly to

the plane of the exterior surface of the rear wall of the top box member, a second frame having downwardly extending marginal walls and a hinge lug extending rearwardly therefrom at each end thereof; the first mentioned hinge lug being between and in contact with the hinge lugs



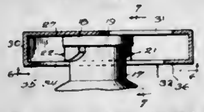
on the second frame, pin means positioned through said lugs, serving as the axis for the hinge formed by said hinge lugs and a bottom member mounted on the bottom of and closing the second frame member to form a bottom box member therewith; the top box member forming a cover for said bottom box member.

2,642,203
CAN OPENER
Frank G. Seemuller, Philadelphia, Pa.
Application April 24, 1952, Serial No. 284,111
3 Claims. (Cl. 220—48)



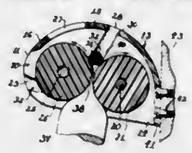
3. A can opener, comprising an elongated strip having side edges at one end converging to form a piercing point for a pouring opening in a can, having opposite side edges at the opposite end converging to form a piercing point for a vent opening in the can, and having pivot forming means for the piercing point for the pouring opening, the piercing point for the vent opening having a hinge connection with the body portion of the strip, and the strip having a slit extending from the hinge connection and forming a lever arm to effect pivotal movement of the vent forming piercing point relatively to the body portion of the strip.

2,642,204
PERMANENTLY ATTACHED CLOSURE DEVICE FOR CONTAINERS
Walter J. Dixon, United States Army, Fort Lee, Va.
Application January 4, 1952, Serial No. 265,025
5 Claims. (Cl. 222—92)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Closure means for a collapsible container having a neck provided with an enlarged head comprising a body portion having top and bottom walls, sides, and ends, said bottom wall having a longitudinal slot receiving the neck of the container and being narrower than the enlarged head so that the head cannot pass through the slot, the top wall of the body portion having an opening opposite one end of the slot larger than said head and allowing passage of the enlarged head outwardly of said top wall, there being longitudinal flanges formed on said bottom wall and projecting inwardly of the sides of the body portion, and a pair of tapered cam elements formed upon the neck near opposite sides of the same and disposed below the enlarged head and adapted to engage the flanges for forcing the head into engagement with the top wall of the body portion.

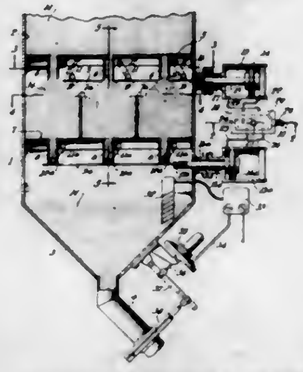
2,642,205
COLLAPSIBLE TUBE CONTENTS DISPENSER HAVING A WINDING KEY AND ROLLERS
Clarence A. Lane, Aldan, Pa.
Application May 26, 1952, Serial No. 290,006
4 Claims. (Cl. 222—98)



1. A collapsible tube contents dispenser comprising a casing including spaced side walls and a cover, a rear roller having axle ends mounted in inverted J-shaped grooves in the inner surfaces of said side walls, said grooves comprised of stems with entrances at the lower edges of the side walls and rearwardly and downwardly extending hooks terminating in rounded bearing surfaces, a forward roller having axle ends mounted in other grooves in the inner surfaces of said side walls, said other grooves comprised of generally horizontal downwardly bowed stems with entrances at the forward edges of the side walls and short upwardly extending branches at inner ends of the stems and said branches terminating in rounded bearing surfaces, and a tubular key mounted in a plain groove in the inner surface of one side wall and a coinciding slot in the opposite side wall, said plain groove and slot communicating with a narrow lateral opening in the cover through which the flattened sealed end of a collapsible tube may be projected for connection with the key and also through which the key is passed for entrance into said plain groove and slot, said key provided with a longitudinal slot leading from the inner end thereof adapted to receive the flattened sealed end of the collapsible tube by sliding said key thereon and said key slot being of less width than the tube seal to prevent dropping of the tube from the key.

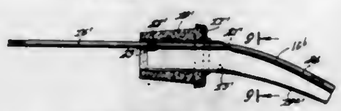
2,642,206
CONTROL OF FLOW OF GRANULAR MATERIAL
Carl S. Reed, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application December 4, 1947, Serial No. 789,586
12 Claims. (Cl. 222—429)

6. The combination of a chamber through which granular material is passed downwardly by gravity; and apparatus for controlling discharge of the material from said chamber and obtaining substantially level descent of the material therein, comprising a bottom structure for the chamber in a substantially horizontal plane, the chamber being of substantially uniform shape and area in horizontal cross section for a substantial distance upwardly from said bottom structure and the latter having spaced discharge ports sized and distributed over the area of the vertical projection of said cross section for substantially equally distributed discharge of the material throughout said area, closure means for said parts mounted for shifting between open and closed positions, a deck mounted in a position spaced beneath said ports and having beneath each port collecting surface for the material discharged through the port, said surface being spaced downwardly from the port a distance at least several times the width of the port and having an area at least several times the area of the port, thereby enabling the discharged material to form mounds of repose beneath the ports, the deck also having ports equal in number to said



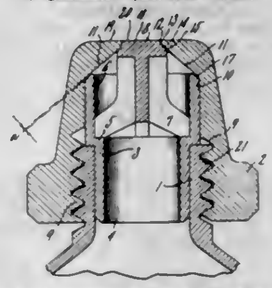
chamber ports and substantially in vertical alignment therewith, respectively, for discharge of the material of said mounds, closure means for said deck ports mounted for shifting between open and closed positions, and timed power-operated mechanism operable upon said two closure means to cause shifting of same periodically in cycles each including closure of said chamber discharge ports, opening of said deck ports, closure of the deck ports and opening of the chamber ports, in the order named, and to keep the chamber ports open for a substantial portion of the time period of each cycle, for completion of the mounds of repose beneath all of said chamber ports.

2,642,207
BOTTLE STOPPER AND POURER
Saverio A. Renzi, Jersey City, N. J.
Application June 20, 1950, Serial No. 169,107
7 Claims. (Cl. 222—479)



7. In a pouring spout of elongated tubular formation and including a container engaging means, an aperture through the wall of said spout, a strap element bent inwardly and extending circumferentially of the spout together with the adjacent wall of the said spout form an inlet opening and spaced from said aperture, and a vent tube held between the wall of the spout and the inwardly bent strap element, said spout extending through said inlet opening and aperture whereby said vent tube is tightly gripped in said spout against lateral shift.

2,642,208
TUBE CLOSING SYSTEM
Hans Kissling, St. Martin, Switzerland
Application July 14, 1949, Serial No. 104,611
In Switzerland July 15, 1948
7 Claims. (Cl. 222—521)



1. A closure structure for application to a dispensing container having a neck, comprising a hollow insert for engagement with said neck, said insert being provided with a first closure portion and a second closure portion, respectively, said closure portions being spaced apart from each other, and a cap member embracing said insert and arranged for movement relative to said neck, said cap member being provided with an inner closing surface, said closing surface terminating in and defining an opening in said cap member, said closure portions being seated on said insert on different planes so that upon movement of said cap member into one position relative to said neck said first closure portion engages said closing surface prior to the engagement of said second closure portion with said closing surface, said insert being adapted to conduct contents from within said container through said neck for dispensing purpose to said opening of said cap member when the latter is in another position relative to said neck.

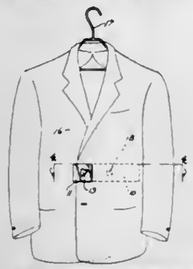
2,642,209
METHOD OF AND AN APPARATUS FOR STEAMING, FORMING, FINISHING, AND RESTORING GARMENT POCKETS
Rooney W. Davis, Webster Groves, Mo., assignor of one-half to Herman C. Weeman, St. Louis, Mo.
Application August 23, 1951, Serial No. 243,253
5 Claims. (Cl. 223—57)



1. In combination, a pocket forming unit of the steam iron type comprising a casing formed for insertion into a pocket, steam ports in said casing distributed around the walls thereof, a steam inlet leading into said casing for the introduction of steam, said casing including converging side wall portions at the end adjacent the steam inlet to facilitate the removal of the pocket forming device from a pocket of a garment, and a spring secured to and substantially surrounding said casing, said spring being deformable laterally from its rest position upon the insertion of

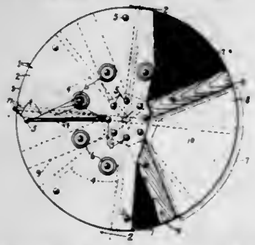
the pocket forming device into a pocket to conform itself to substantially the original outline of the pocket.

2,642,210
COAT RETAINER
Ivan R. Lang, Omaha, Nebr.
Application April 26, 1951, Serial No. 222,978
7 Claims. (Cl. 223—71)



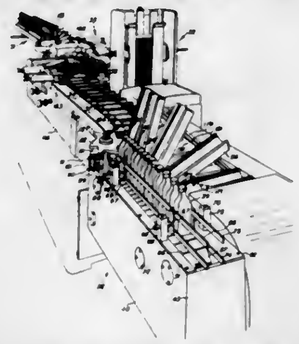
1. In a coat retainer, an elongated body member, a tab near one end of said body member for entering the button hole of a coat, a flap adjacent said tab; said flap having a check-shaped cut therein; said flap and said cut constructed and arranged to have said cut register with the portion of said tab that is secured to said body member when said flap is folded back upon the body member of said retainer, and a saw tooth shaped slot for engaging the button retaining member of a coat to frictionally hold the button against unintentional movement with respect to said retainer; said saw tooth shaped slot being elongated and operating effectively through its length; said saw tooth shaped slot extending away from said tab.

2,642,211
RECEPTACLE FOR THREADED NEEDLES
Charles R. Yingling, Baltimore, Md.
Application May 11, 1949, Serial No. 92,669
4 Claims. (Cl. 223—109)



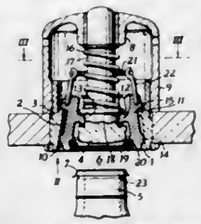
1. In a special receptacle for threaded needles, the combination of a plate having a relatively wide surface and a relatively narrow peripheral surface and having needle-receiving channels extending through said narrow surface and transversely of said wide surface, a plurality of pins united with said plate and projecting outward in sets near the peripheral edge portions and substantially central portions of said wide surface and adapted to have a thread wound around and stretched between any two pins of said sets while said thread extends through a needle that is within one of said needle-receiving channels, and a plurality of thread-hitching clamp-elements united with said plate and extending outward from said wide surface at points spaced from said pins and adapted to clamp and hold end-portions of a thread when the latter is wound around an elected number of said pins.

2,642,212
TILTING BUCKET BOTTLE LOADER
John Francis Currivan, Dayton, Ohio, assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application April 7, 1948, Serial No. 19,625
24 Claims. (Cl. 226—2)



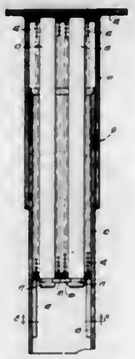
1. In a handling and conveying system, a first conveyor having article receptacles moving in a horizontal rectilinear path; means to rotate said receptacles from an initial horizontal position towards a vertical position and then back to their initial position while moving in said rectilinear path; a second conveyor moving in a horizontal rectilinear path substantially coplanar with the path of said first conveyor; and means operable to transfer articles from said second conveyor to said receptacles at the time that the receptacles on said first conveyor are rotated towards their vertical position.

2,642,213
CLOSURE APPLIANCE FOR BOTTLE CAPPING MACHINERY
Thomas Leslie Goldsmith, London, England, assignor, by mesne assignments, to Clarke-Built Limited, London, England, a British company
Application February 23, 1951, Serial No. 212,286
In Great Britain February 23, 1950
2 Claims. (Cl. 226—85)



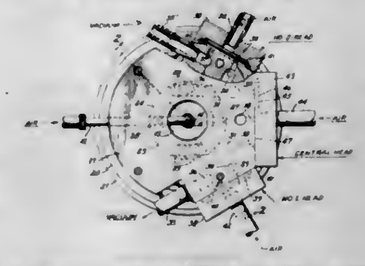
1. A bottle cap closing appliance of the type specified comprising, in combination, a housing having an inwardly and upwardly tapering bore and a shelf above said tapered bore; a pressure plunger mounted centrally within said housing for vertical movement and having a downwardly directed head: first spring means biasing the plunger head toward the lower and larger part of the tapered housing bore; a contractible ring assembly interposed between said tapered housing bore and said pressure plunger and constituted by a plurality of circumferentially arranged arcuate sections, each of said arcuate sections having a lower external projection for co-operating with said tapered housing bore, an upper external projection for co-operating in fulcrum manner with said housing shelf and with an internal projection disposed intermediately of said external projections for co-operating with the upper side of the plunger head; a continuous elastic ring supported within the lower ends of said ring sections below the plunger head, and second spring means applying radially inward pressure to the ring sections to maintain the lower external projections of said ring sections in contact with the tapered housing bore, the arrangement being such that upward displacement of the plunger by pressure applied axially through a bottle bearing a loose cap causes the tapered housing bore first to swing said ring sections radially inwardly upon the upper outer projections resting on the upwardly facing housing shelf and then to lift the ring sections from the shelf so that thereafter the ring sections are rockably supported by the internal projections on the upper face of the plunger head.

2,642,214
BOTTLE FILLER
Adolph J. Lippold, Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Chicago, Ill., a corporation
Application October 21, 1947, Serial No. 781,193
1 Claim. (Cl. 226—96)



In a receptacle filling device of the class described, the combination of a base, an outwardly extending bracket member rotatably mounted thereon and adapted to be rotated therearound in a substantially horizontal plane, a receptacle holder secured to the outer extremity of said bracket, and a container mounted over said bracket and adapted to rotate therewith, said receptacle holder comprising a substantially vertically disposed elongated support body having a downwardly extending longitudinal opening therein, a receptacle carrier having a downwardly depending sleeve telescopically engaged in vertical slidable relation on said elongated support body, a stem depending downwardly from said carrier within said sleeve and projecting into the longitudinal opening of said elongated support body, an enlargement at the end of said stem remote from the carrier, a seat slidably engaged on said stem and held against removal therefrom by said enlargement, a resilient member interposed between said carrier and said seat and adapted to cause the latter to bear against said enlargement, a shoulder in the longitudinal opening of said support body adapted to support said seat at a predetermined level therein, and an external projection on said sleeve, said receptacle filling device having fixed retracting means disposed outwardly from said bracket member and adapted to engage said external projection at a selected location in the path of rotation of said bracket to bear downwardly thereon to retract said receptacle carrier.

2,642,215
OSCILLATING VALVE MECHANISM
Clarence F. Carter, Danville, Ill.
Application April 3, 1952, Serial No. 280,289
2 Claims. (Cl. 226—116)

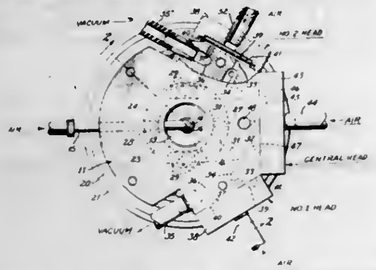


1. A vacuum powder filling machine comprising, in combination, a hopper, a filling head depending therefrom with a powder passageway therebetween, a pneumatic valve in said passageway, a shroud on the filling head, a pneumatically controlled vacuum valve, a pneumatically controlled relief valve, means for controlling and synchronizing the operation of the vacuum valve and relief valve and the valve in said powder passageway, said means comprising; a body member having a plurality of spaced delivery ports therein, means connecting the delivery ports to said valves to control the operation thereof, a vacuum supply port in said body member, a disk mounted for rotation, the inner face of the body member and the matching face of the disk being in gas-tight bearing relationship, a plurality of ports in said disk positioned to coincide with the delivery ports in said body member, a circular groove in said matching face of the disk coinciding with the vacuum supply port, a plurality of arcuate grooves in said matching face interconnected with the circular groove and coinciding during some stage of rotation of the disk with said delivery ports, a face plate mounted on the body member in spaced relationship to the opposing face of the disk forming an air chamber therebetween, an air inlet into said chamber, and means for rotating said disk.

2,642,216
FILLING HEAD FOR VACUUM POWDER FILLING MACHINES
Clarence F. Carter, Danville, Ill.
Application April 3, 1952, Serial No. 280,290
5 Claims. (Cl. 226—116)

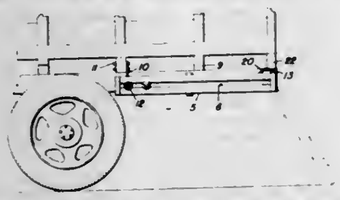
1. An apparatus of the character described, comprising a filling head body, means for attaching the body to a hopper, a shroud mounted on the body, a powder passageway from the hopper to a container when in filling position, said ap-

paratus including a vacuum-relief system comprising; a main gas passageway in said body, a first branch passageway connecting the main passageway with the interior of a container when in filling position, a second branch passageway connecting the main passageway with the interior of the shroud external of the container, an atmospheric relief port opening from the main passageway, a vacuum port opening from said main pas-



sageway, a vacuum supply port in the body adjacent the vacuum port, means for connecting the vacuum supply port with a source of vacuum, a valve block mounted on the head covering the vacuum and vacuum supply ports, an inflatable diaphragm in the valve block, and means to inflate and deflate the diaphragm to control the vacuum and vacuum supply ports; and a relief valve to control said relief port.

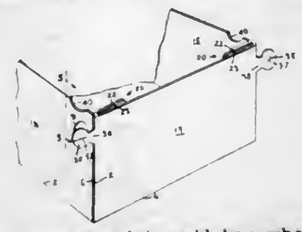
2,642,217
SUPPORT FOR RETRACTABLE LADDER FOR VEHICLES
Victor E. Jennings, Ripley, Tenn.
Application September 28, 1949, Serial No. 118,358
1 Claim. (Cl. 228—48)



A support for a retractible ladder for vehicle bodies comprising a pair of rails each having a longitudinal slot adapted for slidably and swingably supporting a ladder between the rails for movement of the ladder from a vertically inclined position at the rear of the rails into a retracted position parallel to and between the rails, a hanger at the rear end of each rail adapted for attaching to the underside of a vehicle body, and hangers slidably adjustable in the slots and adapted for attaching the front ends of the rails to the underside of the vehicle body.

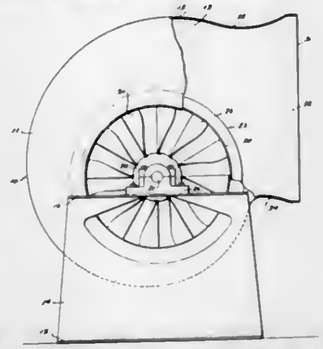
2,642,218
FOLDING BOX LOCKING STRUCTURE
Samuel Platt, San Francisco, Calif.
Application February 16, 1948, Serial No. 8,490
3 Claims. (Cl. 229—31)

1. In a rectangular cardboard box having a bottom wall, a front and rear wall and opposed lateral side walls integral therewith, corner pieces extending from the adjacent ends of said side and front walls and connecting said side and front walls, folding creases formed along the edges of said box and across said corner pieces for unfolding said front wall and corner pieces to a position in which said front wall is coplanar with said bottom wall and in which said corner pieces are respectively coplanar with the side wall connected thereto, the corner piece at each end of said front wall being folded on



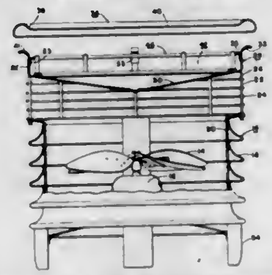
itself and projecting into said box when said front wall is in a position forming the front side of said box, and tabs respectively connected with said corner pieces and with said front wall folded into said box in engagement with each other for holding said front wall in said position forming said front side of said box, and openings formed in said side walls through which the tabs that are on said front walls extend.

2,642,219
FAN HOUSING
William R. Heath, Buffalo, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y., a corporation of New York
Application June 12, 1948, Serial No. 32,555
6 Claims. (Cl. 230—128)



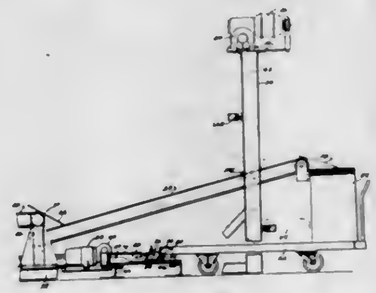
1. A housing for a blower device having a scroll-shaped outer wall, substantially flat side walls joining the outer wall, a fan wheel rotatably mounted within the housing, a discharge collar provided at the outlet end of the housing for attachment to a discharge duct, an inwardly-bowed curved portion at the outer end of the outer end of the outer wall, the curved portion forming a part of a constricted neck located between the collar and the outer wall, the neck being relatively short with respect to the length of the outer wall, the inwardly-bowed wall portion curving inwardly in tangential manner from the scroll-shaped wall and thence outwardly to the collar in substantially one continuous smooth curved contour to direct the air stream initially toward the center of the neck and thereafter to expand it outwardly into the collar by reason of the curved streamline contour of the neck to substantially fill the collar immediately upon entrance of the air stream therein, thus preventing the formation of eddy currents.

2,642,220
AIR TRANSLATING APPARATUS
Gustav H. Koch, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 20, 1951, Serial No. 252,256
4 Claims. (Cl. 230—241)



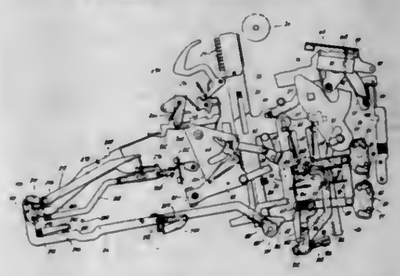
1. A combined air circulator and table comprising a vertical axis propeller fan operable to effect flow of air upwardly, a guard cage encompassing said propeller fan, said guard cage having a deflector member disposed above said fan and including an inverted conical portion serving to deflect the flow of air from upward to horizontal, said deflector member defining an open-top tray storage compartment of which said inverted conical portion forms the bottom wall, a cover for closing the top of said compartment, said cover having an upturned peripheral lip portion, and a serving tray adapted to be disposed within said compartment with said cover in place for storage and being adapted when in use to be supported on said cover within said peripheral lip portion.

2,642,221
TRUCK INDEXING MECHANISM
George Offutt and William M. Briner, Streator, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application January 21, 1949, Serial No. 71,801
9 Claims. (Cl. 254—35)



1. Apparatus for moving a truck, comprising a motor, a ram mounted for lengthwise reciprocating movement, gearing connecting the motor to the ram, means for coupling the ram to the truck, said coupling means comprising a latching lever pivotally connected to the ram and formed with a hook to engage the truck, and automatic means actuated by the movement of the ram for controlling the pivotal movement of said lever and releasing it from the truck.

2,642,222
REGISTER SELECTING MECHANISM FOR ACCOUNTING MACHINES
Walter A. Anderson, Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of New York
Application July 25, 1951, Serial No. 238,445
6 Claims. (Cl. 235—60.48)

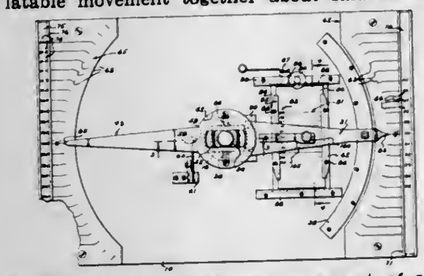


1. In an accounting machine of the class described, having a plurality of registers, register actuators, a cyclically operated means for engaging said registers with and disengaging them from said actuators, a register selection control member and a control plate shiftable relatively thereto for variably positioning said control member, the combination of means individual to each said register for connecting said registers with said engaging means, variably positionable means common to all said registers for variously disabling said connecting means, a power operated member, mechanism operated thereby to invariably move said positionable means to one position, a resilient mechanism connected to said operated mechanism and driven by said power operated member to move said operated mechanism in the opposite direction and an arresting member positioned by said register selection control member to variably arrest movement of said operated mechanism in the return direction thereby effecting a selection among said plurality of registers.

2,642,223
AVERAGE COMPUTER
Claudius S. Barrett, Palos Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 5, 1951, Serial No. 235,230
9 Claims. (Cl. 235—61)

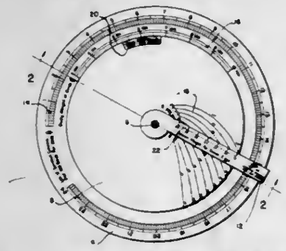
1. A device for determining the average of a series of numerical values comprising a base, a lever arm, a pointer arm, means mounting said arms on said base for independent oscillatory movement about a vertical axis, scales associated with the ends of said lever and pointer arms, means mounting said lever for vertical movement to and from a normal inoperative position and an operative position, means yieldably maintaining said lever arm in said normal inoperative position in which position said lever arm is independently oscillatable about said vertical axis,

and means for connecting the arms for oscillatable movement together about said vertical



axis in response to vertical movement of said lever arm to its operative position.

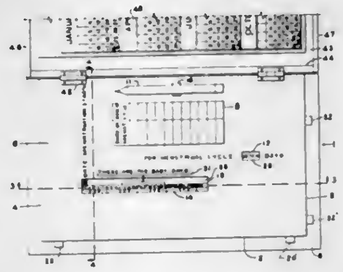
2,642,224
FEED CALCULATOR
James B. Christiansen, Highland Park, Mich., assignor to General Mills, Inc., a corporation of Delaware
Application January 21, 1949, Serial No. 71,855
2 Claims. (Cl. 235—83)



1. A calculator for computing feeds for birds comprising a circular disk, a second circular disk of smaller diameter concentrically juxtaposed on said first disk, a bar extending radially on said disks, means rotatably attaching said disks and bar at the center of the disks for independent rotation, a circular circumferentially positioned scale on the outer edge of the first disk representative of pounds of scratch grains, a second circumferential scale positioned on the first disk within said first scale and being of a shorter arcuate length than said first scale and being representative of body weight of birds, a scale on the second circular disk having curved radial lines representative of per cent egg production, an index mark on the edge of the second disk circumferentially positioned with respect to the curved radial lines in accordance with a certain size flock, the index mark to be aligned with said second circumferential scale, and a scale positioned along the bar representative of ounce weight per dozen of eggs and to be aligned with the per cent egg production scale, the juncture of said scale on the radial bar and the scratch grains scale indicating the amount of scratch grain to be fed to a flock of said certain size.

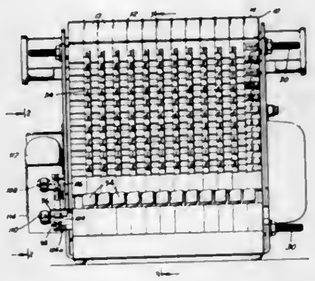
2,642,225
FERTILITY COMPUTING DEVICE
George H. Lee, Troy, N. Y.
Application May 21, 1949, Serial No. 94,617
20 Claims. (Cl. 235—86)

1. In a device of the character described, a support, a pair of longitudinally spaced rollers pivotally mounted on said support, a time tape mounted on and extending longitudinally between said rollers, said time tape having equally spaced indicia designating consecutive days of the year, movable indicating means operatively associated with said tape for indicating, as a fertile period, a variable portion of said tape depending upon the position of said indicating means, said indi-



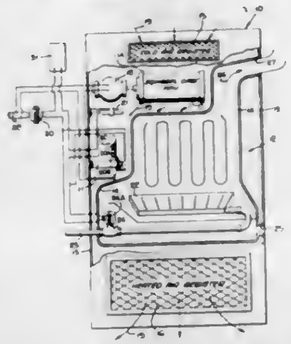
cating means bearing an index at a fixed longitudinal position for defining a particular day of said time tape as the date menstruation started, and visual positional reference means associated with said indicating means for visibly defining the position of said indicating means in terms of the particular menstrual cycle characteristic associated with its particular position.

2,642,226
KEYBOARD
Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 19, 1949, Serial No. 71,734
9 Claims. (Cl. 235—145)



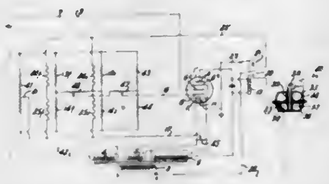
1. In a keyboard, a plurality of light conducting keys arranged in a plurality of separate banks and being mounted for shifting movement along a fixed path, a light source common to said banks remote from said keys, an individual light conducting member associated with each bank of keys, said light conducting members lying in the path of movement of their respective keys and extending between said keys and said light source, a separate color screen associated with each light conducting member, and means mounting said color screens for movement through the path of light falling from said common source of said light conducting member.

2,642,227
HOT-AIR FURNACE CONTROL
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application August 14, 1950, Serial No. 179,320
8 Claims. (Cl. 236—11)



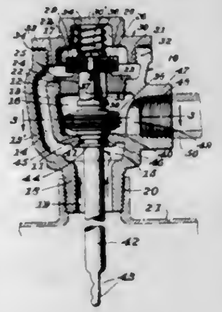
2. In a contraflow furnace control system of the character described, a fuel unit having a heat transferring wall, a wall structure spaced from said wall and defining an air duct therewith, a fan inducing a downward flow of air through said duct, a motor driving said fan, means supplying fuel to said fuel unit, an exposed thermal operated switch in said duct influenced by the temperature of the air flow induced therein and streaming over said switch, an exposed heater mounted in proximity to said thermal operated switch to heat the same, means mounting said heater in said duct to allow air in said duct to stream over said heater and means energizing said heater upon operation of said fuel supplying means.

2,642,228
PULSING ELECTRONIC MEASURING AND CONTROL APPARATUS
George A. F. Machlet, Elizabeth, N. J.
Application December 30, 1947, Serial No. 794,462
18 Claims. (Cl. 236—68)



1. An electronic measuring or control apparatus for equipment to which a medium is to be supplied to maintain a control factor at a preselected value, said apparatus being of the type including an electronic tube having a control grid cooperating with a cathode and an anode, energizing means to energize said electronic tube, said energizing means including a first current source for developing a grid bias voltage and a second current source for developing a cathode-heating current, an input circuit network for said tube including a bridge network having one set of conjugate terminals connected across said first current source and a second set of conjugate terminals connected respectively to said control grid and to said second current source, means for imposing upon said input circuit network a control voltage varying with the value of said control factor, thereby to alter the current output of the tube, an output circuit for said tube having therein current-responsive means effecting a cyclic on-off control of the supply of said medium effecting the magnitude of said control factor, and means for converting said on-off control to a proportioning control varying with the magnitude of the instantaneous departure of the value of said control factor from the preselected value; characterized by the fact that said last-mentioned means comprises means developing a secondary control voltage in said bridge network to impose on said control grid a bias voltage varying in magnitude with the integrated time durations of those portions of the on-off cycles during which the medium is supplied to the equipment.

2,642,229
TEMPERATURE RESPONSIVE RELIEF VALVE FOR FLUID HEATING SYSTEMS
Frank H. Mueller and Earl E. Tinker, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application May 26, 1950, Serial No. 164,558
8 Claims. (Cl. 236—99)



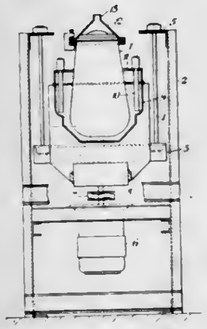
1. A relief valve comprising a housing provided with vertically spaced upper and lower transverse partitions connected at their inner ends by a vertical wall spaced from the adjacent wall of the housing to form a passage therebetween, said partitions separating the interior of the housing into a lower chamber, an intermediate chamber and an upper chamber, said passage communicating the lower chamber with the upper chamber, said upper partition having an outwardly projecting valve seat and an opening communicating the upper chamber with the intermediate chamber, a movable valve arranged to engage said seat to close said opening, means for normally maintaining the valve against its seat, said lower partition having an opening registering with the opening in the upper partition, a thermal responsive device having a bellows positioned in said intermediate chamber and provided with an axially slidable depending tubular portion extending through the opening in the lower partition and into said lower chamber, and means for operatively connecting the bellows to the valve to raise the latter when the bellows is expanded upon the fluid in the lower chamber reaching a predetermined temperature.

2,642,230

PROCESS FOR DISTRIBUTING WAX IN CEMENTED CARBIDE POWDERS

Leo Porges and Stanley T. Sawyer, London, England, assignors to A. Johnson & Company (London) Limited, London, England

Application July 25, 1949, Serial No. 106,730
In Great Britain February 25, 1948
2 Claims. (Cl. 241—15)



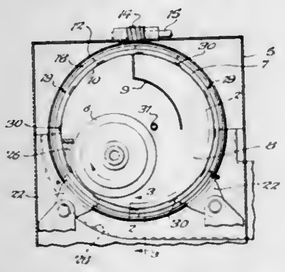
1. A process for mixing, milling and uniformly distributing a comparatively small quantity of wax throughout finely divided cemented carbide powders, comprising the steps of placing finely divided cemented carbide powders in a container, dissolving the wax which it is desired to distribute in a solvent, adding the solution of said wax to said finely divided cemented carbide powders, grinding the powders by subjecting the powders in said solution to a violent vibration and evaporating said solvent during said violent vibration.

2,642,231

FEED RING WITH DRAIN GROOVES FOR ROTATING GRINDSTONE WOOD GRINDING MACHINES

George D. Illig, Lockport, N. Y., assignor, by mesne assignments, to Charles B. Roberts, Lockport, N. Y., as trustee

Application September 13, 1949, Serial No. 115,321
2 Claims. (Cl. 241—38)



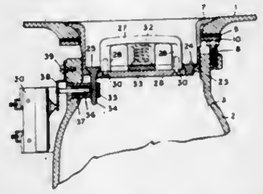
2. In a wood grinding machine of the type having a rapidly rotating grindstone, a feed ring extending eccentrically about said grindstone and provided on its inner peripheral face with teeth extending parallel to the axis of said feed ring, said feed ring being mounted for rotation at a speed much less than that of the grindstone and in the same direction of rotation of said grindstone, that improvement in which said ring is solid between the inner and outer peripheral surfaces thereof and has on its inner peripheral face a plurality of relatively shallow open-faced channels extending into the inner face of said feed ring and extending generally crosswise with respect to said feed ring and opening through the ends of said ring, said channels extending in depth below the base of the teeth and across the teeth and intersecting said teeth, and a spray device within said ring at the side of said stone toward which the teeth on the ring move in the rotation of the ring, for delivering a liquid to said stone to release fibers from said stone and from the wood which is being ground and flush the same into said channels for movement toward opposite ends of said ring for discharge from said ring at said ends thereof, said channels running from approximately midlength of the ring to the ends of the ring and having their outer ends trailing with respect to the direction of rotation of said ring.

2,642,232

GARBAGE GRINDER CONTROL MECHANISM

John Drew, Kent, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application April 22, 1947, Serial No. 743,013
6 Claims. (Cl. 241—63)



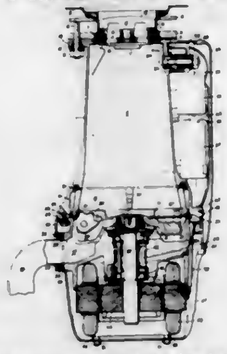
1. The combination with a comminuting apparatus provided with a passage leading thereinto, such passage being radially constricted adjacent its outer end to form a seat, a comminuting member in such passage inward of such seat, a motor for driving said member, and a switch inwardly adjacent such seat controlling energization of said motor, of an actuator for said switch selectively insertable axially into such passage in any of a plurality of rotative positions, said actuator being provided with a radially projecting flange forming a seat engageable with the seat in such passage and with a cam portion clearing said switch in one rotative position and engaging and actuating said switch in another rotative position, said actuator comprising a pair of adjacent relatively rotatable disk members formed with openings therethrough in and out of registry with one another in accordance with the relative rotative positions of said members, and a handle for relatively rotating said members including a leg projecting through the opening in one of said members and connected to the other of said members, the seat in such passage including a pair of circumferentially spaced notches, and each of said members including a corresponding protuberance which is aligned with the protuberance of the other of said members when said members are in a position with the openings therethrough in registry, one of such notches being formed to embrace the aligned protuberances of said actuator in one rotative position of the latter and thereby lock said members against relative rotation to a position with such openings out of registry.

2,642,233

FOOD WASTE COMMINUTING UNIT

James H. Powers, Westport, Conn., assignor to General Electric Company, a corporation of New York

Application July 26, 1951, Serial No. 238,707
3 Claims. (Cl. 241—257)



1. A waste comminuting device including a vertical, substantially cylindrical tubular main body open at its top and bottom and providing a waste receiving chamber with a substantially circular bottom, an annular recess in the bottom edge of said main body, a shredding ring seated in said annular recess with waste shredding structures on its walls near the bottom thereof, a supporting member having a radially outwardly projecting annular flange on its top edge mating with the bottom of said main tubular body, and said member being rotatable with respect to said body about its vertical axis, means readily detachably securing the top flanged edge of said supporting member to the bottom of said main body in any selected degree of relative rotation therewith, motor driven comminuting mechanism carried on the top of said supporting member for cooperation with said shredding structure in said main body, said supporting member having a discharge chamber leading from said mechanism and a radially directed discharge confining passage leading from said discharge chamber to the outside of said supporting member, a motor carried by said supporting member for driving said mechanism, an electrical control wiring compartment extending from the top of said main body to the motor supporting member with wires therein extending to the motor on said supporting member, a cover for said wiring compartment extending outside said main body from near the top to a point below the bottom of said main body, and a bottom cup-shaped casing member removably secured to said supporting member, rotatable therewith with respect to said main body, said bottom casing enclosing said motor and said supporting member and extending to cover the joint between said main body and said supporting member, said bottom casing having a notch in its upper edge fitting around said radially directed discharge confining passage, and said casing extending up under the bottom end of said control wiring compartment cover.

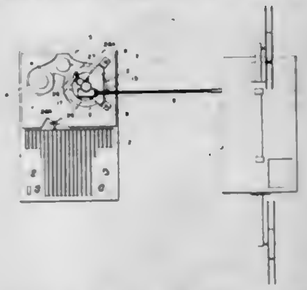
2,642,234

SYNCHRONIZER

John T. Anderson, Portland, Oreg.

Application March 4, 1949, Serial No. 79,699
3 Claims. (Cl. 242—55)

1. A device for synchronizing a driven primary shaft with a frictionally driven secondary shaft, which device comprises a coupling member connectable to said primary shaft to be driven thereby, drive means driven by said coupling member, a support, a stub shaft journalled on said support, means for mounting said support over said secondary shaft with said stub shaft in axial alignment with the secondary shaft, means drivingly connecting said drive means with said stub shaft, a crank arm on the end of said stub shaft adjacent the secondary shaft, a pawl pivotally mounted on the end of said crank arm, means carried by said arm normally retaining said pawl radially of said stub-shaft but permitting pivotal movement of said pawl toward the normal direction of rotation of said crank arm, a pin including means for mounting said pin on the secondary shaft to be engaged by said pawl when the pawl revolves faster than said pin and to pivot said pawl out of its path upon continued rotation of the secondary shaft after the crank arm has stopped, and a friction clutch drivingly connecting said arm and said stub shaft to permit relative rotation therebetween if movement of the pin is retarded.

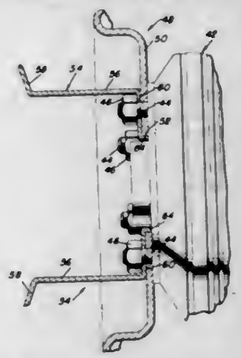


2,642,235

WHEEL EXTRICATING ATTACHMENT AND CABLE

Eugene Jerry Smith, Springfield, Ohio, assignor of twenty per cent to Leonard Smith, Springfield, Ohio

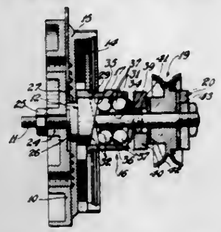
Application September 4, 1951, Serial No. 244,950
1 Claim. (Cl. 242—95)



In combination, a vehicle axle embodying a brake drum having wheel supporting and retaining studs and accompanying clamping nuts, a wheel having a hub portion mounted on said studs and held in place by said nuts, cable wind-

ing means embodying a plurality of duplicate rigid readily applicable and removable brackets, the outer ends of said brackets being directed laterally outward, the inner ends of said brackets being directed laterally and inwardly toward each other and having openings, said studs extending through said openings and being held in place by said nuts, the terminal portions of the laterally directed inner ends of the respective brackets are provided with arcuate lateral lugs and said lugs engaging the inner peripheral edge of said wheel hub.

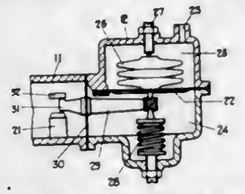
2,642,236
YARN TENSIONING DEVICE
Edward J. Heizer, Mountain Lakes, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application May 19, 1950, Serial No. 163,001
7 Claims. (Cl. 242—155)



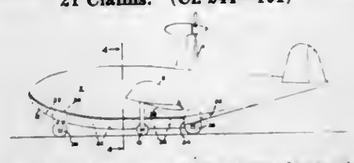
1. A device for tensioning yarn comprising a stem, a stop on said stem, a pulley rotatably mounted on said stem adjacent said stop having an annular surface over which yarn is adapted to pass to rotate the pulley, a cam, means between said cam and said pulley arranged to be actuated by said cam to move axially with respect to said stem and urge said pulley against said stop and to apply a braking force on said pulley to retard rotation thereof, a member mounted for rotation about the longitudinal axis of said stem for causing said means to be actuated by said cam, a spring for urging said member into a position to cause said means to urge said pulley against said stop, and an arm on said member responsive to the yarn passing over said pulley for operating said member in opposition to said spring to decrease the effectiveness of said means to retard rotation of said pulley.

2,642,237
AUTOMATIC FUEL FEED CONTROL SYSTEM FOR AIRCRAFT POWER PLANTS
Frederick William Page, Preston, and Stanley George Hooker, Derby, England; said Page assignor to The English Electric Company Limited, London, England, a British company, and said Hooker assignor to Rolls-Royce Limited, Derby, England, a British company
Application March 17, 1947, Serial No. 735,270
In Great Britain January 14, 1946
5 Claims. (Cl. 244—53)

5. In an aircraft having a jet propulsion engine including a fuel supply system, a control system for said fuel supply system comprising a Pitot tube mounted on said aircraft to be subjected to the Pitot pressure, and pressure-ratio-responsive means connected to said fuel supply system, to said Pitot tube and to a point on said aircraft subjected to the static pressure of the ambient atmosphere and responsive to the ratio of said Pitot pressure and said static pressure to reduce the flow of fuel supplied by said fuel supply system whenever said aircraft attains a selected Mach number irrespective of the individual values of said Pitot pressure and said static pressure.

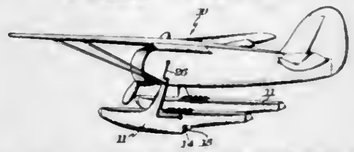


2,642,238
ALL-WEATHER AIRPLANE
Lewis C. McCarty, Jr., and Harold G. Fello, New York, N. Y., assignors to The Marine Aircraft Corporation, New York, N. Y., a corporation of New York
Application June 25, 1948, Serial No. 35,226
21 Claims. (Cl. 244—101)



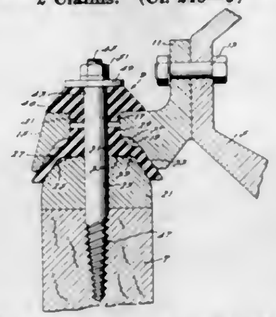
21. An airplane, comprising a fuselage, pivoted flaps, carried by the wings, and pivoted near the trailing edges thereof, sheet material, secured to the underside of the wings, ahead of said flaps, and also secured to the flaps, for thereby forming inflatable, air-tight cushions, providing when inflated, hydrodynamic planing surfaces and hydrostatic displacement members wherein said sheet material contacts the landing and take-off surfaces, said displacement members serving to maintain transverse stability in landing and take-off operations.

2,642,239
FLOAT-EQUIPPED AIRCRAFT
Charles C. Crossley, Point Edward, Ontario, Canada
Application October 8, 1951, Serial No. 250,229
5 Claims. (Cl. 244—105)



1. In an aircraft equipped with floats, a plurality of water-tight compartments in each float; a deep step (as here-before defined) in each float; two valve mounting orifices extending through the deep step of each float, the orifices being symmetrically arranged on each side of the float's center-line and providing communication between the float exterior and the compartment adjacent the deep step; valves of the reciprocating piston type mounted in the said two orifices of each deep step; a yoke rigidly connecting the piston rods to the pair of valves in each float, the piston in each valve being reciprocable between a position in which it forms a seal closing off the orifice in which the valve is mounted and an open position which permits water to pass through the orifice and enter the compartment adjacent the deep step when the aircraft is waterborne; and valve control means, operable from the aircraft cockpit, and operatively connected to the yokes to effect reciprocation of the yokes and thus reciprocate the pair of pistons associated with each yoke, so that each pair of valves may be simultaneously opened or closed.

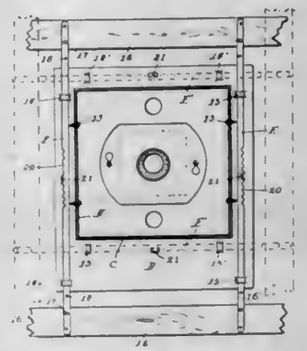
2,642,240
MOTOR MOUNTING
Thomas H. Peirce, Detroit, Mich., assignor to H. A. King, doing business as H. A. King Co., Detroit, Mich.
Application May 28, 1947, Serial No. 750,994
2 Claims. (Cl. 248—9)



1. In an engine mounting or the like, the combination of an L-shaped mounting bracket having its upright leg adapted for connection to an engine to receive the vertical gravity load therefrom, the transverse leg of said bracket having an aperture therethrough the axis of which is transversely spaced from the upright leg, the upper surface of said transverse leg surrounding said aperture being normal to the axis of the aperture, said transverse leg having a recess formed therein about the axis of said aperture that provides a downwardly facing frusto-conical surface, a fixed gravity load receiving member beneath the transverse leg of said bracket having an upwardly facing frusto-conical surface coaxial with but spaced beneath the frusto-conical surface of the leg, an annular rubber body having a frusto-conical skirt between and engaging said frusto-conical surfaces whereby gravity load from the bracket is transmitted to the member, said skirt having circumferentially spaced recesses formed in the opposite surfaces thereof, said rubber body having a neck extending upwardly from the skirt and fitted in said aperture, another annular rubber body engaging the upper surface of said transverse leg and having a neck extending downwardly and fitted in said aperture, and a bolt shouldering on the top surface of said last rubber body and extending through said aperture and threading into said member whereby axial compression may be applied to said bodies.

2,642,241
ELECTRICAL FIXTURE
Ralph Pryne, Pomona, Calif.
Application June 7, 1949, Serial No. 97,519
2 Claims. (Cl. 248—27)

2. In a fixture for installation in an opening in a building structure, a housing supporting marginal collar lining said opening and having a lateral supporting flange, a pair of hanger bars secured by their end portions to said building structure, each of said bars having a longitudinal



toothed edge between its ends and said flange having cooperating engaging means selectively secured longitudinally to said toothed edge for regulating the position assumed by said fixture in said opening.

2,642,242
DRIVE RING
John Karitzky, Cranford, N. J., assignor to Diamond Expansion Bolt Company, Inc., Garwood, N. J., a corporation of New Jersey
Application October 24, 1950, Serial No. 191,770
2 Claims. (Cl. 248—71)

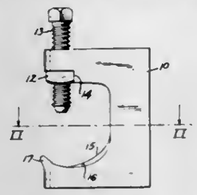


1. A drive ring having one end thereof bent back on itself to form an eyelet, and a nail extendable through said eyelet, said nail being thickened at a portion spaced from its pointed end to a dimension slightly larger than the dimension of said eyelet, that portion of the nail between its thickened portion and its pointed end having substantially the same diameter as said eyelet, whereby the nail may be easily slid through said eyelet to said thickened portion and the thickened portion thereafter forced into said eyelet to retain said eyelet and nail in assembled relation, at least the thickened portion of said nail being galvanized.

2,642,243
CLAMP FOR HANGING PIPE AND THE LIKE
Orlan C. Kindorf, San Francisco, Calif.
Application February 19, 1951, Serial No. 211,744
2 Claims. (Cl. 248—72)

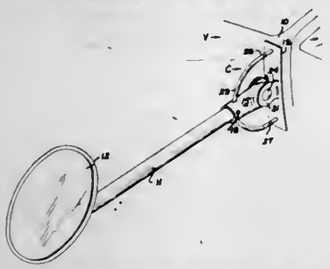
1. A clamp for securing pipe or the like against a beam flange which comprises a pair of spaced plates, an integral part joining one edge of the plates to hold them in spaced relation, said plates having a cut-out portion extending through their joined edges and the joining part, said cut-out portion having dissimilar curved edges on each

of the plates to correspond to the diagonal interception of a cylinder with the plates to provide a saddle for a pipe extending diagonally



through the clamp, and a clamping screw disposed between said spaced side plates adjacent said joining part in a position with its axis adapted to intersect a pipe resting in said saddle.

2,642,244
REAR-VISION MIRROR
Theodore L. Beach, Jr., New Carlisle, Ohio
Application September 27, 1948, Serial No. 51,355
3 Claims. (Cl. 248—291)



1. In a rear vision attachment for motor vehicles, the structure comprising a plate member, a pair of spaced ears extending from said plate member, a tubular section having an end thereof adjacent said plate member flattened and pivotally supported between said ears for movement in a given plane, a tubular arm adapted to support a mirror on one end thereof and having the other end telescoped with the free end of said tubular section, an arcuate guide support extending from said plate member in said given plane beyond said ears and passing through oppositely disposed aligned apertures in said tubular section and arm, and screw means, passing through other threaded aligned apertures of said tubular arm and tubular section positioned in quadrature with respect to said first apertures, adjustably securing the said arm and guide together.

2,642,245
GARBAGE PAIL HOLDER
Elmo Rice and Virgil E. Fisher, Wichita, Kans.
Application December 8, 1950, Serial No. 199,753
2 Claims. (Cl. 248—150)

1. As a new article of manufacture, a readily attachable and detachable bracket for use in association with the rack assembly of a stand-type garbage pail support comprising a rigid wire rod bent between its ends to provide horizontal and vertical limbs, the free end of the vertical limb being provided with a rigid arcuate pail embracing grip, said free end being joined with said grip at a place midway between the opposite ends of said grip, the free end of the horizontal limb being provided with a lateral depending terminal, and a substantially V-shaped adapter clip, said



terminal being located in and permanently attached to the crotch portion of said clip.

2,642,246
ADJUSTABLE SUPPORT STAND
J Larry Stephans, St. Albans, N. Y., assignor, by mesne assignments, to International Projector Corporation, Bloomfield, N. J., a corporation of Delaware
Application September 27, 1949, Serial No. 118,157
4 Claims. (Cl. 248—161)



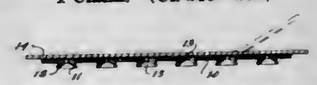
1. A vertically adjustable support structure for electric lamps comprising an apertured base member, an elongated tube secured to the base and projecting upwardly therefrom, a second elongated tube of lesser diameter than the first tube telescopically and slidably disposed therein, a collar secured to the second tube adjacent the bottom thereof and extending downwardly therefrom, an annular horizontal groove in the collar below the bottom of the second tube, an expansion spring ring disposed in the groove and exerting horizontally directed outward pressure against the inner surface of the first tube whereby to hold the second tube within the first tube in any desired relative position, the second tube being vertically slidable within the first tube against the normal biasing of the spring ring, a third tube of smaller diameter than the second tube and extending upwardly from the base to accommodate current supply wires, and a stop carried by the lower end of the second tube and against which the upper end of the third tube abuts to limit the lowering of the second tube.

2,642,247
COLLAPSIBLE STAND
Robert G. Bode, Chicago, Ill., assignor to The Norwood Company, Morton Grove, Ill., a corporation of Illinois
Application February 4, 1950, Serial No. 142,484
2 Claims. (Cl. 248—171)



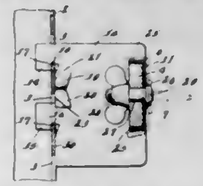
1. In combination with a music stand of the type that comprises a standard, a bracket mounted fixedly on the lower end of the standard and provided with equidistantly spaced outwardly extending lugs, a plurality of legs having certain ends thereof pivotally connected to the lugs on the bracket so that they are capable of swinging upwards and downwards relatively to the standard, a sleeve mounted on the standard above the bracket to slide to and from the latter, and a plurality of upwardly extending links corresponding in number to, and associated respectively with, the legs, having the lower ends thereof pivotally connected to the central portions of the legs and their upper ends pivotally connected to the sleeve, and adapted when the sleeve is slid downwards towards the bracket to swing the legs downwards into an operative position and when the sleeve is slid upwards away from the bracket to swing the legs upwards into a collapsed position wherein they extend alongside the lower end of the standard, a vertically extending latch in the form of a one-piece stamping of spring metal, operative releasably to hold the legs in their operative position, having the lower end thereof provided with a pair of integral laterally spaced outwardly extending ears in connected relation with certain of the lugs on the bracket, arranged so that its intermediate and upper end portions are free to flex toward the standard into a latched position and away from the standard into an unlatched position, and provided at its upper end with integral vertically spaced inwardly extending upper and lower pairs of fingers adapted when the legs are in their operative position and said portions of the latch are in their latched position to straddle the sleeve in such manner as positively to prevent upward and downward sliding movement of said sleeve, the upper ends of the upper fingers being inclined downwards and inwards in the direction of the standard to provide cam surfaces which are adapted, when the sleeve in connection with downward swinging of the legs approaches the end of its downward sliding movement, to be engaged by the lower end of the sleeve and to coact therewith to cam said intermediate and upper end portions of the latch into their unlatched position in order to permit the sleeve to slide downwards past said upper fingers, said portions of the latch being adapted immediately after the sleeve is slid downwards past the upper fingers to flex inwards with a snap action into their latched position and thus cause the upper and lower fingers to be brought into straddled relation with the sleeve, the lower fingers being arranged in lapped relation with opposite side portions of the lower end of the standard and having the free ends thereof bent inwards to form steps for limiting outward flexure of said intermediate and upper end portions of the latch into their unlatched position.

2,642,248
SUCTION FASTENING DEVICE
William P. Semon, Manhasset, N. Y.
Application January 26, 1951, Serial No. 208,029
1 Claim. (Cl. 248—206)



In a suction fastening device, an elongated strip of flexible elastic material having a plurality of suction cups formed integrally therewith and projecting outwardly on one side thereof with the outer edges of the cups disposed in a common plane, said strip having apertures opening through the outer face thereof and through the inner face centrally of said cups respectively, and an air impervious backing secured to the outer face of said strip by a slow-drying gum adhesive in sealing relation with said apertures and to permit of the removal thereof so as to break the suction created by the said cups when said cups are pressed against a supporting surface.

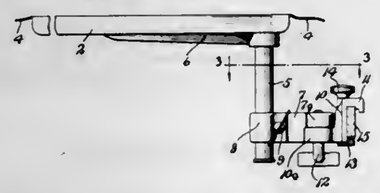
2,642,249
LENGTH ADJUSTING AND ATTACHING BRACKET
Martin L. Samuels, Chicago, Ill., assignor to Reflector Hardware Corporation, Chicago, Ill., a corporation of Illinois
Application March 12, 1948, Serial No. 14,403
2 Claims. (Cl. 248—224)



1. A bracket adapted to be supported in outstanding relation with the forward face of a standard which has a row of vertically aligned and spaced slots therein comprising, a piece of sheet metal bent to provide first and second right angularly plate-like portions adapted to lie in vertical planes when the bracket is attached to the standard, the first portion having upper and lower marginal hooks adapted to interlock with corresponding slots of the standard, the second portion having means to slidably receive and guide and support the end of a crossbar, means for clamping the bracket to the bar, said first portion having struck out therefrom in opposite directions prongs disposed in separate planes substantially at right angles to the plane of the forward face of the standard and having edges

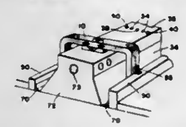
adapted to engage said forward face to resist lateral swinging motion of the bracket in relation to the standard, the vertical height of the first portion being substantially greater than that of the second portion and having a part extending a substantial distance below the lower hook and which is adapted to abut the standard.

2,642,250
ARM SUPPORT FOR OPERATING BEDS
Anthony M. Kasnowich, Grand Rapids, Mich.
Application March 6, 1950, Serial No. 147,807
3 Claims. (Cl. 248—229)



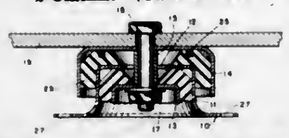
3. In a structure of the class described, a clamp including a vertical section, and a laterally extending shoe at its upper portion adapted to ride on a horizontal carrying bar, a clamping block located at the lower end of the said vertical section, adapted to bear against the under side of said bar, screw means for drawing said block into clamping position, said vertical section having a laterally extending ear, an arm having an ear at one end overlapping said first mentioned ear, means for pivotally connecting the two ears and for clamping them together to secure them in adjusted position relative to each other, said arm at its outer end having an integral loop providing a vertical passage, a post extending through the passage in said loop, and means to clamp the loop against said post.

2,642,251
ELECTRIC LIGHTING FIXTURE SUPPORT
William E. Janness, Wheeling, Ill., assignor to Lighting Products, Inc., Highland Park, Ill., a corporation of Illinois
Application October 28, 1947, Serial No. 782,663
7 Claims. (Cl. 248—343)



1. An electric lighting fixture support for mounting tubular lamp housings, comprising a yoke to fit over the housing having parallel ends and a connecting crosspiece, supporting means at the outersides of the parallel ends for fixed attachment of the yoke, means adjustably connected to the crosspiece comprising a bar attachable at the top of the lamp housing, means including slots in the crosspiece of the yoke and links connected to the bar and pivoted in the slots for adjusting the bar longitudinally between the ends of the yoke, and fastening screws insertable through the top of the housing through the supporting bar and into contact with the crosspiece for varying the inclination and angle of the bar and a lamp housing supported thereby.

2,642,252
SHOCK MOUNT
Ervin Pietz, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application March 12, 1946, Serial No. 653,906
2 Claims. (Cl. 248—358)

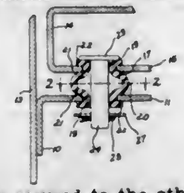


1. A resilient mounting comprising a base member having an upstanding central embossment having a cylindrical side wall portion and an upper wall portion extending substantially at a right angle to the cylindrical side wall portion and having a central opening therethrough, inner and outer shells each having a cylindrical side wall portion and an upper wall portion extending substantially at a right angle to the cylindrical side wall portion and having a central opening, said inner shell being disposed within and with its cylindrical wall portion and upper wall portion spaced from those of said central embossment of the base member, said outer shell being disposed without and with its cylindrical wall portion and upper wall portion spaced from those of said central embossment, means for retaining said inner and outer shells in said spaced relationship, and separate inner and outer cup-shaped rings of resilient material positioned respectively between the embossment of the base member and the spaced inner and outer shells, each of said cup-shaped resilient rings having inner and outer cylindrical surfaces and inner and outer surfaces extending substantially at right angles to said cylindrical surfaces, said surfaces of said cup-shaped resilient rings being in engagement respectively with corresponding surfaces of the walls of said embossment and shells, whereby the resilient material of said cup-shaped rings is loaded in compression for force applied in any direction and substantially equal stiffness in all directions is provided, said separate inner and outer cup-shaped resilient rings each having an annular outer conical surface adjacent its periphery providing bulge space respectively within said outer shell and within said embossment, and each resilient ring having a central inner conical surface tapering inwardly of the ring and providing bulge space respectively beneath the upper wall of the outer shell and beneath the upper wall of the said embossment, the outer upper surface of at least one of said resilient rings between its said inner and outer conical surfaces having an annular groove therein extending around the ring, said means for retaining said inner and outer shells in spaced relationship including a spacing sleeve disposed between and engaging said inner and outer shells and extending through said central opening of said central embossment, and securing means extending through the aligned central openings of said inner and outer shells and through said spacing sleeve and adapted to secure said mount to a support member.

2,642,253
VIBRATION ISOLATOR
Jesse Markowitz, Forest Hills, N. Y.
Application March 8, 1947, Serial No. 733,347
7 Claims. (Cl. 248—358)

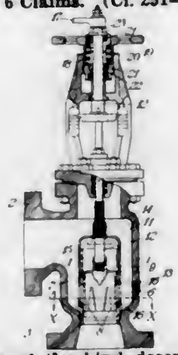
1. Vibration isolator comprising a hollow bulbar elastic body, restricted portions at opposite

ends thereof, said ends having openings therein, a rigid member secured at one of said ends, a rigid pin in said openings and passing through said body, the diameter of said pin being less than the diameter of said openings, a second



rigid member secured to the other end of said body, one end of said pin being attached to one of said members and the other end of said pin carrying a washer, one end of said pin being spaced from the adjacent end of said body to permit relative movement therebetween.

2,642,254
VALVE
Clifford Harry Armstrong, London, England, assignor to Copes Regulators Limited, London, England
Application May 22, 1950, Serial No. 163,373
In Great Britain June 10, 1949
6 Claims. (Cl. 251—4)

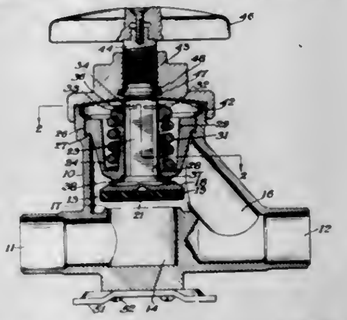


1. A valve of the kind described, comprising associated inner, outer and intermediate cylindrical ported members arranged to be relatively rotated to vary the valve opening, having the port opening of a member other than the intermediate member and through which the fluid enters formed to overlap the corresponding opening of the intermediate member when the port openings of the three members are aligned and the valve is in its fully open position so as to shield the intermediate port openings, some of the port openings being of tapering form in the direction of the common axis of the members and means being provided for effecting, in addition to the relative rotation, a relative axial displacement between the inner and outer members and the intermediate member to vary the valve opening.

2,642,255
PACKLESS VALVE
George O. R. Lindgren, Willoughby, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application December 10, 1947, Serial No. 790,855
2 Claims. (Cl. 251—32)

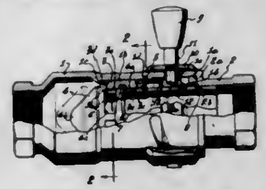
1. A valve comprising a body formed with a valve seat therein, a reciprocable plunger, a re-

movable guide for the plunger threadable into the body and including a back seat for the plunger, the plunger being reciprocable in the guide to engage the valve seat and back seat alternatively, and being rotatively interlocked with the guide in all positions so that the guide may be threaded into the body by rotation of the



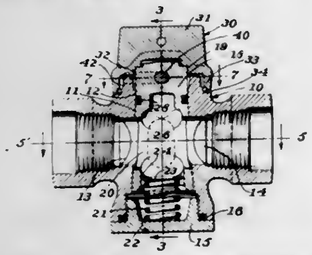
plunger, a ring rotatively interlocked with the plunger in both directions of rotation and configured for application of a wrench whereby rotation of said ring rotates said guide through said plunger, and a spring compressed between the guide and the ring to urge the plunger toward the back seat.

2,642,256
VALVE
Theodore A. Stehlin, Pasadena, Calif.
Application April 19, 1949, Serial No. 88,440
9 Claims. (Cl. 251—39)



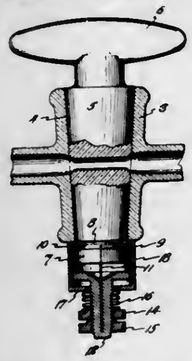
1. In a valve of the class described, a housing having a cylindrical passage therethrough, a shoulder in the passage, a valve seat member removably positioned in the passage against the shoulder, a retaining ring for removably securing the valve seat member against said shoulder, the valve seat member having an annular peripheral groove, a sealing ring positioned in the groove against the wall of the passage, a sleeve valve member reciprocally mounted within the passage and adapted to engage the valve seat member, the sleeve of the valve member being axially slidable through the bore of the valve seat member, the wall of the bore of the valve seat member having an annular groove, a sealing member in the latter groove, a valve-member reciprocating collar removably fitted around and intermediate the ends of the rear portion of the valve member, the valve member having a shoulder for limiting the forward position of the collar, a resilient snap ring engaging the rear side of the collar, the latter ring being removably fitted into groove means in thhe valve member, for holding the collar against the shoulder of the valve member, and means operable through the housing in the collar for axially shifting the valve member.

2,642,257
VALVE STRUCTURE
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application August 19, 1949, Serial No. 111,188
1 Claim. (Cl. 251—112)



In a rotary plug valve the combination comprising: a casing having a tapered seat and flow passages opening thereto; a tapered plug rotatable in said heat and having a flow port alignable with said casing passages; resilient means urging said plug to seat; a shank on the smaller end of said plug projecting exteriorly of said casing; an impact-receiving and turning-tool-engageable member on said shank, said member having a peripheral skirt depending into spaced adjacency with the opposed end of said casing to limit unseating movement of said plug; a pair of diametrically disposed lugs depending from said member radially-inwardly of said skirt; at least one corresponding upstanding lug on said opposed casing end engageable by said member lugs to limit rotation of said plug; and a pin extending diametrically through one side of said skirt, through one of said member lugs, through said shank, and at least partially into the other of said lugs to secure said member to said shank.

2,642,258
PRESSURE-TIGHT STOPCOCK ADAPTER
Bertram M. Stone and Roger Gilmont, Brooklyn, N. Y., assignors to The Emil Greiner Company, New York, N. Y., a corporation of New York
Application December 15, 1948, Serial No. 65,355
4 Claims. (Cl. 251—112)



1. In combination with a stopcock including a valve body and a valve plug journaled therein and having an end portion projecting beyond the end of the valve body and provided with an annular groove, a pressure-tight adapter for converting the same to pressure-tight operation, comprising a clutch collar having an inwardly extending portion for engagement in the annular groove in the projecting end portion of the valve plug, an abutment sleeve surrounding said clutch collar arranged to bear against the end of the valve body, said sleeve having an abutment wall at the outer end of the same beyond the clutch collar, a screw element extending from the clutch collar beyond said abutment wall, an abutment nut on the outer end of said screw element and a valve seating spring about said screw element between said abutment wall and abutment nut, said clutch collar being made in separate, companion parts independently engageable over the opposite sides of the valve plug and said screw element being separate from said clutch parts and having a head held between the companion clutch parts.

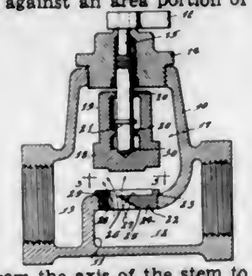
2,642,259
VALVE
Arthur W. Catlin, Manitowoc, Wis., assignor to Manitowoc Shipbuilding Company, Manitowoc, Wis.
Application October 25, 1947, Serial No. 782,107
4 Claims. (Cl. 251—122)



1. A valve construction comprising a yielding cup-shaped body portion having one end open and having the other end provided with a slit and a pair of lips defining the slit and normally in contact with each other, and a U-shaped rigid member located within said body portion and extending transversely with reference to said slit and bearing against the inner base portions of said lips and biasing the outer ends of said lips towards each other to thereby assist in normally holding said lips together.

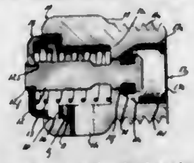
2,642,260
FLOW CONTROL VALVE
Robert E. Moore, Winnetka, Ill., assignor to Bell & Gossett Company, Morton Grove, Ill., a corporation of Illinois
Application April 13, 1951, Serial No. 220,828
4 Claims. (Cl. 251—127)

3. A flow control valve comprising a hollow body having an interior wall defining with the body inlet and outlet chambers, a valve seat carried by the wall, a vertical stem mounted within the body coaxial with and above the seat, and a valve member freely slidable on the stem for coaction with the seat, the wall including an opening therethrough lying within the seat and offset from the axis of the stem, the member being moved upwardly in an opening direction by pressure in the inlet chamber acting through the opening against an area portion of the member



offset from the axis of the stem to thereby rock the member on and make snug contact with the stem and being gravity moved to closure.

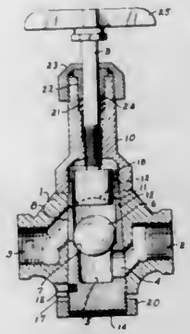
2,642,261
VENT VALVE
Richard L. Gates, Dayton, Ohio, assignor to Curtis Automotive Devices, Inc., Dayton, Ohio, a corporation of Ohio
Application June 6, 1947, Serial No. 752,867
1 Claim. (Cl. 251—137)



A valve comprising a body having an exteriorly threaded tapered cylindrical shank at one end thereof and a head at the other end thereof, said head having a bore therein terminating in a shoulder and a counterbore at the outer end thereof terminating in a second shoulder, said threaded shank having a bore therethrough terminating in a frusto-conical valve seat and a reduced diameter passage adjacent said first shoulder, a laterally extending port in said head communicating with the bore therein, a solid valve plug in said body having a reduced diameter shank portion extending through said reduced diameter passage into the shank bore and terminating in a radially enlarged peripheral shoulder, said plug shank portion having a second radially enlarged peripheral shoulder axially spaced above the first shoulder for entry into said reduced diameter passage, a cap on said plug slidable in said counterbore, a sealing washer bottomed on said second shoulder in the counterbore and coacting with the cap to close one end of the housing, a second sealing washer mounted on said plug intermediate said shoulders, and a spring surrounding said plug and held under compression between said cap and said first shoulder for urging said second sealing washer against said frusto-conical valve seat with said second shoulder positioned within said reduced diameter passage, said spring being located in the chamber which is drained by said laterally extending port.

2,642,262
VALVE
Joe M. Johnson, near Iowa Park, Tex.
Application April 26, 1948, Serial No. 23,331
2 Claims. (Cl. 251—139)

1. In a valve of the character described, a valve body having a tapered bore therein which bore converges toward the upper end of said body, a lateral opening formed in said body in position to intersect said tapered bore, a plug fitted within said bore and being tapered complementarily therewith, which plug has a hollow formed therein, the smaller end of said tapered plug being externally threaded and extending upwardly above said body, an inlet opening and an outlet opening formed in said tapered plug and being in communication with said hollow portion of said plug, with at least one of said openings arranged complementary with said lateral opening in said valve body, a valve seat formed within said plug intermediate said inlet and said outlet openings, a valve member positioned within said hollow portion in said tapered plug to seat upon said valve seat, a valve stem mounted in said tapered plug for urging said valve into



engagement with said valve seat for positively closing said valve, an internally threaded valve bonnet threadably engaging said threaded smaller end of said tapered plug for drawing said tapered plug into binding engagement with said tapered bore of said valve body so as to form a fluid tight joint therebetween and between said plug and said bonnet, said bonnet having a packing element therein and surrounding said stem so as to form a fluid tight joint between said stem and said bonnet, and threads formed on the larger end portion of said hollow, tapered plug and extending therealong to a point within said bore of said valve body so a threaded nut, engageable with said threads and the lower face of said valve body, will withdraw said tapered plug from said bore upon urging said nut against the lower face of said body.

2,642,263
BLADE APPARATUS
Arthur G. Thorp II, Swarthmore, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1951, Serial No. 204,504
5 Claims. (Cl. 253—77)

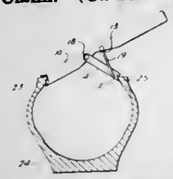
1. A fabricated blade unit for an axial-flow rotor comprising a pair of shallow halves having complementary edges engaging to form a hollow body, said halves forming an enlarged blade root portion, a core member contained in said root portion, and a pair of crimped loosely engaged damper plates extending from said core member and interleaved between said halves, the outer

faces of said plates being secured to the adjacent halves, respectively, and the edges of said halves



being secured together to provide a smooth exterior airfoil surface.

2,642,264
TIRE CASING SPREADER
Warren R. Perry, Fredericksburg, Va.
Application April 6, 1951, Serial No. 219,608
1 Claim. (Cl. 254—50.1)



A tool for spreading tire casings comprising an elongated shaft having a transversely extending notch in one end and a handle formation at its other end, a lever having a bifurcated end pivotally secured at said end to said shaft intermediate the length of the latter and having a transversely extending notch in its other end, the notched ends of said shaft and said lever being adapted to engage the opposite bead formations of a tire casing, and a bail pivotally connected at one end to said shaft at a location spaced from the pivotal connection between said lever and said shaft in a direction away from the notched end of said lever, said bail extending around said lever and said lever having a groove in one side near the notched end thereof receiving the other end of said bail to lock said lever in casing spreading position relative to said shaft, the pivotal connection between said lever and said shaft being spaced from the notched end of said shaft a distance substantially equal to the length of said lever and said lever having a length slightly greater than one half the distance between the beads of a tire casing when the casing is in spread condition.

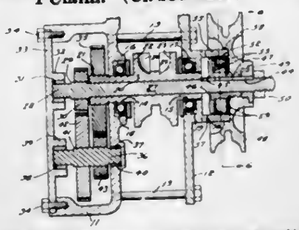
2,642,265
TIRE TOOL
William Jared Cox, Woodruff, Utah
Application July 24, 1950, Serial No. 175,606
8 Claims. (Cl. 254—50.1)

1. A tire casing spreader comprising a pair of crossed levers pivotally connected intermediate their ends, the inner ends of said levers being longitudinally curved and arranged in opposed relation to provide jaw forming portions, one of said levers having its outer end curved longitudinally to dispose it in outwardly spaced relation to the curved inner end of the other of said levers, a swiveled nut carried by the end of said one lever, a manually actuated screw in



said nut, a ball and socket connection between the inner end of said screw and the adjacent jaw portion of the other of said levers, and means carried by said jaw portions to engage the beads of a tire casing, said means comprising bead engaging hooks slidably mounted on said jaw portions, and spring means for retracting said hooks.

2,642,266
HOIST
Orrie E. Dotson, Lisbon, Ohio, assignor to Lisbon Machine Company, Incorporated, Lisbon, Ohio, a corporation of Ohio
Application November 6, 1950, Serial No. 194,369
1 Claim. (Cl. 254—169)



In a hoist a body member having oppositely disposed horizontally aligned openings and a tubular driven shaft located therein, a drive shaft positioned in said tubular driven shaft and extending outwardly of the ends thereof, a sleeve secured on one end of said drive shaft, a thread pattern formed on said sleeve, a pulley having a matching thread pattern engaged on said sleeve, an annular flange on said body member and a cap secured to said flange and having a bearing positioned therein, the other end of said drive shaft journaled in said bearing, a stub shaft positioned between said cap and said body member and spaced with respect to said drive shaft, splines formed on said drive shaft and said stub shaft and pinion gears positioned on said splines, one end of said tubular driven shaft having a spline formed thereon and a secondary pinion gear positioned thereon and engaged with one of said pinion gears on said stub shaft whereby rotating motion imparted the drive shaft by said pulley is conveyed through said pinion gears to said secondary pinion gear and to said tubular driven shaft, a cam disc on said sleeve adjacent said pulley, a secondary sleeve positioned in said pulley and engaging said body member and defining a stationary annular chamber about said sleeve and cam disc, a plurality of cam slots formed in the periphery of said cam disc and a plurality of rollers located one in each of said cam slots, said pulley being capable of limited rotation on said sleeve to engage said cam disc and move the same in one direction.

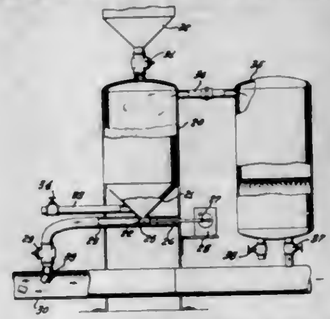
2,642,267
APPARATUS FOR INITIATING AND DRILLING DEVIATING CURVED BORES FROM EXISTING VERTICAL WELL BORES
John A. Zublin, Los Angeles, Calif.
Application January 17, 1951, Serial No. 206,364
2 Claims. (Cl. 255—1.6)



1. An apparatus adapted to be carried in its entirety at the lower end of a rotary drill string for drilling curved bores deviating from an existing well bore, comprising in combination a rotatable flexible drill string section made up of a plurality of units so interconnected as to permit of limited relative angular movement of adjacent units in all directions, a normally curved metallic flexible resilient drill guide surrounding at least a portion of said flexible drill string section said guide having a slot in the wall thereof extending in a generally helical path around and along said guide, the upper end of said flexible drill string section being connectable to the lower end of the rotary drill string, a drill bit carried at the lower end of said flexible drill string section for rotation therewith, an elongated sleeve surrounding at least a portion of said rotatable flexible drill string section and said flexible resilient drill guide and insertable therewith into an existing well bore, a whipstock having an exposed camming face secured at the lower end of said sleeve said normally curved flexible resilient drill guide being effective to exert pressure on the bit in the same direction as that of the wedging action of said whipstock whereby upon relative vertical movement of said bit and said whipstock the bit is forced sidewardly, by the wedging action of said whipstock, and the action of said normally curved flexible resilient drill guide against the wall of the existing bore to initiate and thereafter drill a deviating bore.

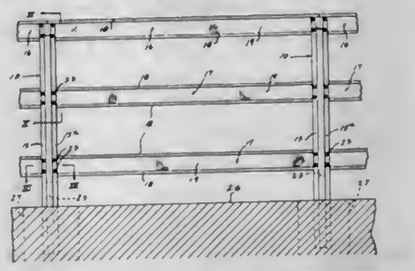
2,642,268
METHOD OF RECOVERING LOST CIRCULATION IN DRILLING WELLS
Arthur L. Armentrout, Long Beach, Calif.
Application February 28, 1948, Serial No. 12,055
4 Claims. (Cl. 255—1.8)

1. The method of recovering lost circulation in drilling wells in which there is a drilling string and a bit attached thereto which comprises pressure compacting into lumps of as large a size as may be reasonably expected to pass through the circulation ports in the bit a finely divided material which will commence setting up on contacting the circulation fluid and feeding the lumps into the circulation fluid forced into the well whereby due to the compacted nature of the material penetration of the circulation fluid to the



interiors of the lumps will be delayed until the material approaches or has reached the location it is desired to seal in order to recover circulation.

2,642,269
METAL PANEL FENCE
Thomas M. Daniel, Birmingham, Ala.
Application September 25, 1950, Serial No. 186,633
14 Claims. (Cl. 256—21)

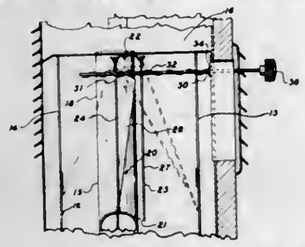


1. In a sheet metal fence, posts comprising oppositely disposed channels with their legs facing each other and having outturned flanges extending normal to the ends of the legs of said channels, vertically spaced panels between the posts with the ends thereof between said outturned flanges, longitudinally extending rolled edges circular as viewed in transverse section on said panels, the upper rolled edges of adjacent upper panels extending over the top of the post therebetween and substantially abutting each other, the remaining rolled edges of said panels terminating at the outer edge of said outturned flanges, and means securing the panels to the flanges.

2,642,270
WALL HEATER
John H. Hollingsworth, Altadena, and Karl L. Bedell, Pasadena, Calif., assignors to Holly Manufacturing Company, Pasadena, Calif., a corporation of California
Application May 15, 1950, Serial No. 162,022
9 Claims. (Cl. 257—136)

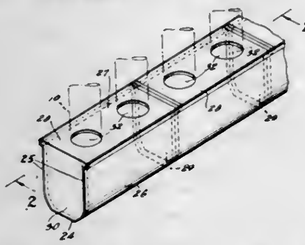
1. In a heater for disposition in a wall, the combination which comprises a hollow jacket having front, back and side walls adapted to be mounted in the wall, inlet means for admitting air

into the jacket, a hollow combustion type radiator having a hollow upwardly extending portion adapted to be connected to a flue disposed in the wall above the jacket, the radiator being mounted in the jacket and spaced from both its front and its back walls to provide front and rear ducts through which air rises upwardly as it is heated, hot air outlet conduits in the front and rear respectively of the upper portion of the jacket to discharge hot air on opposite sides of the wall adjacent the hollow upwardly extending portion of the radiator, the latter being so shaped as to leave a window connecting the front and rear portions of the jacket between the hot air outlet



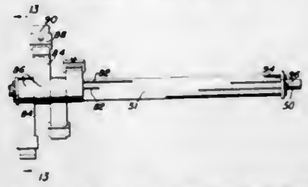
conduits, a first damper disposed in the jacket to the rear of the window and being larger in at least one dimension than the window and only partially obstructing the window, the first damper being hinged from above and adapted to swing to the rear and at least partially obstruct the rear hot air outlet conduit, a second damper mounted in the window and hinged from above and of such size and so positioned that it will swing through the window and contact the first damper and move it in the direction of the rear hot air outlet, and swing in the opposite direction to at least partially obstruct the front hot air outlet conduit and means for swinging the second damper in either direction.

2,642,271
WATER HEATER
Jack Berger, Laurelton, N. Y., assignor to Diesel Oil Burner Corp. of N. Y., Jamaica, N. Y.
Application October 21, 1948, Serial No. 55,738
3 Claims. (Cl. 257—252)



1. In a water heater provided with a plurality of parallelly arranged water tubes, connecting means for connecting the open ends of the tubes of consecutive pairs of said water tubes with each other, said connecting means comprising in combination a longitudinal channel member including two side wall portions extending substantially parallel to each other through the entire length of said channel member and having two top edges, and a connecting wall portion integral with said side wall portions and connecting the same along the entire length of said channel member, said channel member being open at its top and at its opposite ends; a longitudinal cover strip water-tightly secured along its edges to said top edges of said side wall portions of said longitudinal channel member; a row of openings in said longitudinal cover strip arranged at a slight distance from each other in longitudinal direction of said longitudinal cover strip so that each of said plurality of water tubes is adapted to fit into one of said openings and to be secured water-tightly within the same; a plurality of consecutive bends in said longitudinal cover strip forming a plurality of transversal walls extending normal to the direction of said longitudinal cover strip and reaching into said longitudinal channel member in such a manner as to form within said longitudinal channel member consecutive channel compartments water-tightly divided from each other and having each such a length as to communicate with two consecutive openings in said longitudinal cover strip.

2,642,272
BLADE MOUNTING STRUCTURE FOR LINOLEUM AND ASPHALT TILE REMOVER
Thomas C. Rush, Mansfield, Mo.
Application January 16, 1950, Serial No. 138,867
2 Claims. (Cl. 262—20)



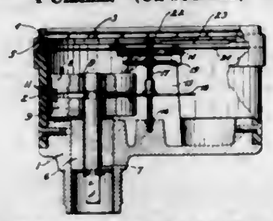
1. In a surface scraper comprising a supporting base and operating means for a rotor, a rotor adapted to be mounted on the base and actuated by the operating means, including a shaft, a drum mounted on said shaft, a plurality of blades mounted on said drum for rotation therewith, said blades being displaced on said drum at equal axial and circumferential intervals with respect to each other, said drum having circumferentially spaced axially extending slots, a plurality of arms, each embracing said drum and having one end anchored in one of said slots, said blades each being mounted on the other end of one of said arms.

2,642,273
APPARATUS FOR PRODUCING LIGHT-WEIGHT AGGREGATES
John B. Dube, Dallas, Tex.
Original application August 23, 1950, Serial No. 181,036. Divided and this application July 5, 1951, Serial No. 235,313
6 Claims. (Cl. 263—33)



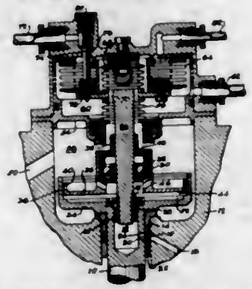
1. A rotary kiln comprising: an inclined rotary cylinder having at least its upper end open; a lining of heat insulating material within and secured to said cylinder extending from the upper end of said cylinder to a point intermediate said upper and lower ends; a plurality of spirally arranged risers extending inwardly of said lining within said cylinder and from the upper ends to the lower end of the cylinder and secured to said cylinder; a burner disposed within said cylinder for heating a section of said cylinder lying intermediate said upper end and said point; a dust sprayer disposed immediately adjacent to said burner within said cylinder intermediate said heated section and said lower end; and a water sprayer disposed within said cylinder between said dust sprayer and said lower end.

2,642,274
MAGNETIC DRAG TACHOMETER
John H. Andresen, Jr., Port Washington, N. Y., assignor to Kollsman Instrument Corporation, Elmhurst, N. Y., a corporation of New York
Original application July 25, 1946, Serial No. 686,168, now Patent No. 2,593,646, dated April 22, 1952. Divided and this application June 20, 1951, Serial No. 232,509
4 Claims. (Cl. 264—13)



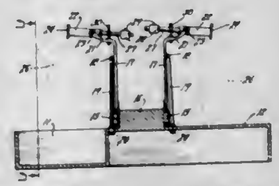
1. In a tachometer, a disk of high conductivity material, a rotatable shaft on which said disk is mounted, means biasing said shaft against rotation, indicating means operated by said shaft, magnetic drag means having a magnetic field passing through a portion only of the area of said disk, said area changing in location with movement of the disk, said disk having a non-uniform contour to vary at different speeds of said magnetic drag means the incremental movement of said disk in response to incremental change in speed of rotation of the drag means; said non-uniform contour being a variable radius.

2,642,275
FLUID PRESSURE SPEED SENSING DEVICE
Ferdinand P. Sollinger, Paterson, N. J., assignor to Curtiss-Wright Corporation, a coporation of Delaware
Application January 29, 1949, Serial No. 73,603
4 Claims. (Cl. 264—14)



1. Speed sensing mechanism comprising first and second members, said first member being rotatable and said second member spaced axially from and being movable axially relative to said first member with the axially-spaced facing surfaces of said members forming opposed walls of the space between said members; means for continually supplying a liquid to said space to maintain said space full of liquid during operation of said mechanism; means for causing rotation of the liquid within said space with said rotatable member whereby the centrifugal force acting on said liquid produces a liquid pressure in said space subjecting said second member to an axial force; means for subjecting said second member to the force of a fluid pressure opposing said axial force; and means controlled by axial movements of said second member for varying the magnitude of said fluid pressure to balance the axial forces acting on said second member whereby said fluid pressure is a function of the speed of rotation of said first member.

2,642,276
WEIGHING AND PACKAGING MACHINE
Martin B. Monson, near Henderson, Colo.
Application February 23, 1952, Serial No. 273,079
4 Claims. (Cl. 265—51)

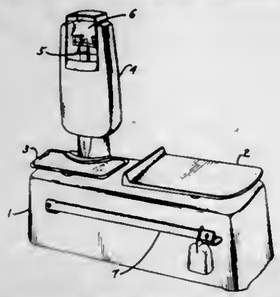


1. A bag supporting and conveying device comprising: a table top; a pair of sprocket shafts mounted on and extending upwardly from said table top; a chain sprocket mounted on each shaft in horizontal alignment with each other above the table top; an endless chain trained about said two sprockets, said chain being supported intermediate the sprockets on said table top; chain spacing means frictionally engaging the inner faces of each reach of said chain to prevent inward movement of the latter; supporting standards mounted on and arising from said chain at spaced intervals; slide bars frictionally engaging said standards and acting to prevent outward movement of the latter; and a bag-engaging device carried by each of said standards.

2,642,277
WEIGHING SCALE
Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application September 7, 1951, Serial No. 245,570
3 Claims. (Cl. 265—54)

1. In a weighing scale, in combination, a base of a generally rectangular box-like structure, a generally rectangular flat commodity platter of a width approximately the same as the width of the base and of a length slightly more than half of the length of said base, said commodity platter being spaced above and parallel to the top of the base and having three of its edges approximately aligned with two sides and one end of the base, a generally rectangular flat counterpoise platter of a width slightly more than half of the width of the base, said counterpoise platter being spaced above the top of the base so as to be generally coplanar with the commodity platter, said counterpoise platter occupying the space to

one side of the top of the base of the space not occupied by the commodity platter, weighing mechanism within the base for supporting the platters, an indicating tower vertically surmounting the base from the portion of the top of the base not occupied by said platters, indicating mechanism operatively connected to the weighing mechanism which indicating mechanism is lo-



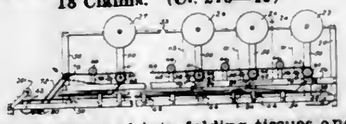
cated within the tower, said tower and said indicating mechanism being adapted to face either in the direction of the counterpoise platter or in the direction of the commodity platter by adjusting the tower 90° about its vertical axis, and a beam and poise operatively connected to the weighing mechanism, said beam and poise being carried at the side of the base along which the counterpoise platter is mounted.

2,642,278
SHOCK STRUT
William B. Westcott, Jr., Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application September 3, 1949, Serial No. 113,941
7 Claims. (Cl. 267—64)



1. In a shock strut, a cylinder adapted to contain liquid and compressed air, a chambered piston slidable axially in said cylinder, the body of the piston being spaced from the cylinder wall by a bearing provided on the piston adjacent the head thereof and by a bearing provided on the cylinder adjacent the open end thereof, a hollow plunger supported by and disposed within the cylinder and extending into the chamber of the piston, the end of the plunger within the piston having a metering passage for liquid connecting the interior of the plunger with the piston chamber, the head of the piston comprising a ring supported by and between axially spaced shoulders on the piston body for limited radial movement relative to said body, and the inner face of said ring encircling and cooperating with the outer surface of the plunger to provide a metering passage for liquid between the cylinder chamber and the piston chamber, the plunger being yieldable in a radially inward direction upon increase in fluid pressure on the outer surface thereof incident to increase of load applied to the strut, to decrease the plunger diameter and thereby to increase the area of the last-mentioned passage, the portion of the plunger encircled by the ring when the strut is fully extended being of reduced diameter whereby said last-mentioned passage then has increased area, passage means for liquid and air connecting the interior of the plunger with the cylinder chamber, and metering passage means for liquid connecting the piston chamber with the space between the cylinder and piston confined between said bearings.

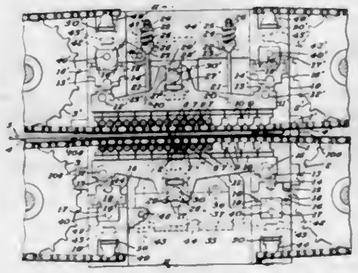
2,642,279
WEB INTERFOLDING APPARATUS AND METHOD
Oliver E. Teall, Phoenix, N. Y., assignor of one-third to William Edds, Seneca Falls, N. Y., and one-third to Douglas Crutchley, Cicero, N. Y.
Application February 21, 1950, Serial No. 145,418
18 Claims. (Cl. 270—40)



1. The method of interfolding tissues and the like to provide a multiple stack of interfolded tissues which comprises, continuously feeding and bringing together in sequence a series of webs at intervals spaced lengthwise thereof, with alternate webs offset laterally with respect to the remaining webs, by an amount equal to a fraction of the width of said webs, whereby each web as fed has a longitudinal inboard section lying in overlapping relation to a prior web and an outboard longitudinal interfolding section adapted to be folded over the inboard section, guiding the outboard section of each web clear of the overlapping section while laying the inboard section of the immediately subsequent web over the folded outboard section of the prior web, and smoothing said outboard interfolding section over the inboard section of said subsequent web prior to the laying of the inboard section of the next succeeding web.

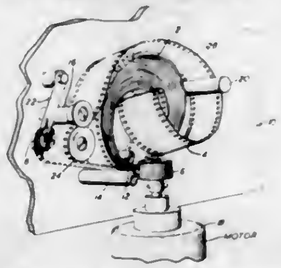
7. In an interfolding machine, a conveyor belt, a plurality of means for feeding a web strip upon said conveyor located at spaced points along the length of said conveyor belt, alternate feeding means being offset laterally with respect to the remaining feeding means, each feeding means comprising a smoothing member adapted to overlie and extend along a section of the web strip and cover said strip to one side of the median of said strip, and a finger having a longitudinally extending portion for gathering the remainder of said strip in a longitudinal fold while traveling along and beside said smoothing member, said finger extending in the direction of flow and having a second portion extending diagonally across the subsequent smoothing member to move the fold across said subsequent member, and smoothen said remaining side over said subsequent member.

2,642,280
APPARATUS FOR COLD REDUCING METAL BARS
Gustaf L. Fisk, New Fairfield, Conn.
Application October 25, 1945, Serial No. 624,344
15 Claims. (Cl. 271—2.1)



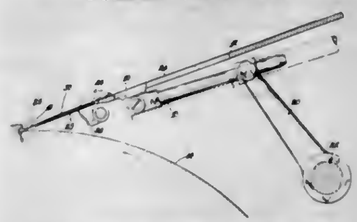
1. Traction apparatus for advancing elongated articles in the direction of the length thereof comprising two generally coplanar endless traction elements having respectively opposed substantially parallel reaches, means for driving the elements so that at said reaches thereof they move in the same direction at the same speed, mounting structures respectively disposed at least in part generally within the endless traction elements, pressing devices also respectively disposed at least in part generally within the endless traction elements behind said reaches thereof respectively carried by the mounting structures and adapted to press said reaches toward each other, positioning means predetermining the relative positions of the pressing devices and a connection between at least one of the mounting structures and the corresponding pressing device rapidly shiftable to dispose the pressing devices in relative positions predetermined by the positioning means.

2,642,281
APPARATUS FOR THE WINDING OF ENDLESS BANDS
Frederick G. Buhrendorf, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1951, Serial No. 258,570
5 Claims. (Cl. 271—2.18)



1. In a system employing a moving endless band, an endless band having a serrated edge and formed into a loosely wound multilayered roll having a looped portion extending from the inner layer to the outer layer thereof, two supporting members between which said roll is disposed in such manner that one of said members is in contact with said looped portion at the point where said looped portion joins the outer layer of said roll, the other of said members is in contact with said looped portion at the point where said looped portion joins the inner layer of said roll, and each of the layers of said roll disposed between said members is in contact with the layers adjacent thereto, a rotating drive gear, said gear having teeth which conform to the serrations on the edge of said band and being disposed in such manner as to engage said serrations at the point where said layers are disposed between said supporting members, the serrated edges of all the layers of said roll being aligned at the point where said layers are disposed between said supporting members in such manner as to be engaged simultaneously by said drive gear.

2,642,282
MECHANISM FOR FEEDING SHEETS TO ROTARY DRUM MACHINES
Headley Townsend Backhouse, Sunningdale, England
Application November 9, 1949, Serial No. 126,265
In Great Britain November 12, 1948
4 Claims. (Cl. 271—53)

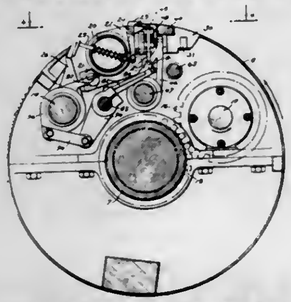


1. Mechanism for feeding sheets one at a time in registered relation to grippers and registering stops carried on a rotating drum, which mechanism comprises a feedboard onto which the sheets may be supplied in turn, front lays for locating at a registering position the front edge of each sheet on the feedboard in turn and arranged to be withdrawn below the feedboard to facilitate removal of the sheets, side lay mechanism for drawing successive sheets on the feedboard sideways and arranged for operation beneath the rear portion of a preceding sheet, at least one suction gripper arranged to grip the front portion of each sheet in turn at a location behind the front edge and after side registration has been effected, and means for operating the suction gripper to feed the front edge of the sheet while so gripped past the registering position and when the front lays are withdrawn to the grippers on the drum with a slight excess of movement accommodated by a slight buckling of the sheet between the gripper and the front edge of the sheet.

2,642,283
SHEET REGISTERING MECHANISM
Alexander J. Albrecht, West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application July 1, 1949, Serial No. 102,682
12 Claims. (Cl. 271—53)

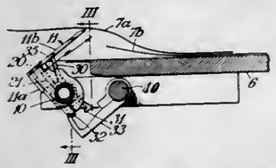
1. In a sheet handling mechanism, having a sheet support, means for registering a sheet thereon, and grippers for taking the registered sheet, the combination with the sheet support of detector mechanism for detecting an improperly registered sheet and sheet rejecting mechanism controlled thereby and comprising a plurality of sheet lifting elements spaced across the sheet

support adjacent the grippers but spaced therefrom and operable to lift the edge of an improper-



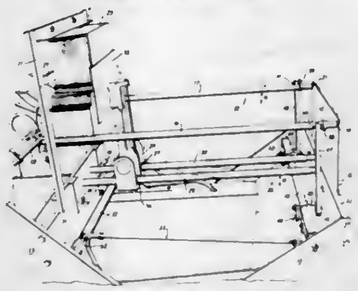
ly registered sheet up off the support so as to prevent its being taken by the grippers.

2,642,284
SHEET REGISTERING APPARATUS
Headley Townsend Backhouse, Sunningdale, England
Application November 9, 1949, Serial No. 126,268
In Great Britain November 12, 1948
1 Claim. (Cl. 271—60)



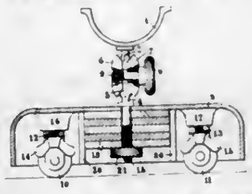
In a sheet feeding machine of the kind in which a succession of partly overlapped sheets are fed by conveyor means and as a continuous stream onto a layboard to a position where each sheet in turn is brought to rest and registration of the sheet is effected against front lays and from which board the sheet is then removed while the underlying sheet is approaching the registering position, the combination of a scraper device arranged to operate below each sheet as it is removed from the lay board to scrape the lower face of the sheet, to engage the leading edge of a succeeding sheet as it approaches the lays to separate that edge from the sheet being removed, which scraper device consists of a member having two arms at an angle and pivotally supported about the free end of one of the arms below the layboard for oscillation about an axis parallel to the leading edge of the sheet to be engaged from a position in which the other arm (later referred to as the scraper arm) extends upwardly towards the underside of the sheet being removed to a position in which the scraper arm lies above and substantially parallel to the front edge portion of the succeeding sheet, the movement of the device as aforesaid being in a direction against the movement of the sheets and being followed by a return movement to the initial position, means for oscillating the scraper device as aforesaid and in such timed relation with the feeding of the sheets that the free end of the scraper arm scrapes the underside of the sheet being removed as the next sheet approaches the lays and the scraper arm reaches the limit of its movement just before the sheet reaches the lays, a feeler which is incorporated in and movable with the scraper device and which is also movable relative to the scraper device by a sheet arriving at the correct time, and a movable sensing member for determining whether the feeler has been moved as aforesaid and if it has not for stopping the machine or operating a warning device.

2,642,285
BLANK MAGAZINE FOR FOLDING BOX MACHINES
Thomas R. Baker, Sunnyvale, and Edward J. Pagendarm, San Mateo, Calif., assignors to Bemiss-Jason Machine Co., San Francisco, Calif., a partnership
Application October 25, 1950, Serial No. 192,014
4 Claims. (Cl. 271—62)



1. A blank magazine for storing and feeding a stack of flat box blanks in a folding box machine, the magazine comprising, a pair of rods for edgewisely supporting a stack of blanks; a front member for arresting and retaining the frontmost blank in a predetermined position for removal; a follower for engaging the rearmost blank of the stack and urging it towards said front member; and means for imparting to the rods an oscillatory motion about the respective rod axes.

2,642,286
APPARATUS FOR LIMB REEDUCATION
Denis Leroy, Rennes, France
Application May 12, 1952, Serial No. 287,381
In France May 24, 1950
5 Claims. (Cl. 272—57)



1. An apparatus for limb re-education comprising a carriage constituted by a frame resting on two sets of wheels, a vertical rod fitted substantially at the center of said carriage, a cradle placed at the top of said vertical rod and adapted to receive at least a section of a limb to be re-educated, a flexible band fitted onto this cradle and adapted to maintain into said cradle the limb to be re-educated, and, between said cradle and the top of said vertical rod, connecting means adapted to allow said cradle to be set and immobilized into any position in space above said carriage frame.

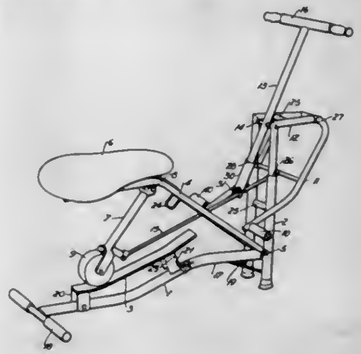
2,642,287
CONVERTIBLE PUNCHING BAG MOUNT
Herbert Rubin, New York, N. Y.
Application March 1, 1950, Serial No. 146,945
4 Claims. (Cl. 272—78)



1. A convertible punching bag mount adapted for use selectively to support a punching bag upright upon a resilient standard and to support a punching bag in a dependent position underneath a horizontally extending portion of said mount comprising: an articulate base member including a rigid platform section and a rigid base plate section longitudinally spaced from said platform section when said sections are in coplanar relationship; a pair of oppositely disposed rigid arms extending between sides of said sections, each of said arms being hingedly connected to opposite sides of said platform section and being secured to opposite sides of said base plate section; readily disengageable locking means associated with said platform section and said arms adapted to lock said arms relative to said platform section thereby locking said platform and base plate sections in coplanar relationship; means associated with said base plate section for supporting a punching bag standard upright from said base plate section, whereby upon resting said mount upon a floor surface, said sections then being in coplanar relationship, a user may stand upon said platform section and strike a punching bag mounted atop said standard, means associated with said platform section for supporting a punching bag dependent therefrom; whereby when said locking means are disengaged and said sections are pivotally displaced, said mount may be secured to a wall by fastening said platform section and said base section thereto, said platform section then extending horizontally, permitting a punching bag depending therefrom to be struck so as to bounce against the underside thereof.

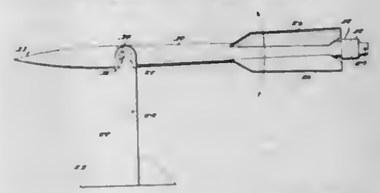
2,642,288
EXERCISE MACHINE
Joseph D. Bell, San Francisco, Calif.; Pearl B. Bell, administratrix of said Joseph D. Bell, deceased
Application August 1, 1949, Serial No. 107,873
3 Claims. (Cl. 272—79)

1. An exercising machine comprising a main frame having a post rising therefrom, a seat supported by the main frame rearwardly of the post, an actuating member for the seat, a foot support member swingably supported by the post and located for operation by a foot of a seat occupant, a pump handle member pivoted in the post rearwardly of the foot support member and located for operation by a hand of the seat



occupant, and a link connecting the three members.

2,642,289
TOY ROCKET
Vern R. Gersmehl, Sr., Cheyenne, Wyo.
Application June 20, 1950, Serial No. 169,223
3 Claims. (Cl. 273—106.5)

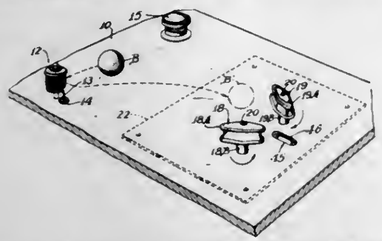


1. A toy rocket comprising a tubular body having a pointed nose and an open blunt rear end, a bushing in said body adjacent the said pointed nose, a pin extending through said bushing transversely thereof and each end of said pin projecting outwardly of the body, a plug having a longitudinally extending bore and an enlarged impact portion positioned in the open blunt end of said body, a resilient element positioned in said body with one end fixed to said pin and the other end extending outwardly of the body through the bore in said plug, a knob on the last said end having an impact portion thereon adapted to engage the impact portion of said plug and said resilient element is adapted to be extended beyond the end of said plug by means of manual operation of said knob so that when said knob is released the impact portion thereon will forcibly engage the impact portion on the plug to drive the body forward.

2,642,290
ANGULARLY ADJUSTABLE BALL BUMPER
Raymond T. Moloney and Herman L. Seiden, Chicago, Ill.; said Seiden assignor to said Moloney
Application December 30, 1948, Serial No. 68,296
7 Claims. (Cl. 273—118)

3. A ball bumper structure comprising a pair of bumpers spaced and pivoted for convergent and divergent movement to open and close a ball passage, mechanism for pivoting one of said

bumpers, and means drivingly interconnecting said one bumper with the other for simultaneous



but reverse motion relative thereto to effect convergent and divergent movement as aforesaid.

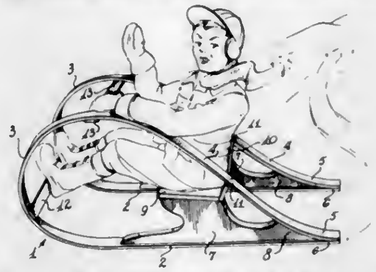
2,642,291
RUBBER BASED METALLIC SKATE GUARD
Donald F. Condon, Houston, Tex.
Application January 23, 1950, Serial No. 140,041
2 Claims. (Cl. 280—11.38)



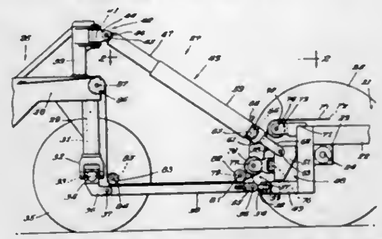
2. A skate guard comprising, an elongated, integrally formed, substantially rigid body having a prow-shaped forward end, a vertical slot in the upper part of said body and extending for substantially the length thereof, said slot including a bored rear portion having the rear end thereof threaded, a resilient means extending in said slot and spaced from said threaded end and extending into said prow, a latch insertable in said slot to the rear of said threaded portion and providing a forward extending, arcuate under surface, a spring insertable in said bore to bear at its forward end against said latch, a plug threadable into said bore rear end to bear against said spring to adjust the tension thereof, said skate guard being adapted for latched connection to skates of varying lengths insertable in said slot to be resiliently supported by said resilient means and which skates have serrated forward ends to bear against said resilient means within said prow, and which have downwardly curved rear ends to be yieldably latched by contact with said arcuate under surface of said latch.

2,642,292
CHILD'S SLEIGH
Gerard Fortin, St. Gedeon, Lac-St.-Jean, Quebec, Canada
Application July 20, 1950, Serial No. 174,823
1 Claim. (Cl. 280—12)

A sleigh comprising two spaced parallel runners, each runner consisting of a strip bent to form a loop having a straight ground engaging portion, an upwardly bent portion at the front end of the sleigh to form a segment of a circle and an extended downwardly inclined portion terminated by a slightly concave rear end portion having part of its inner face in contact with the inner face of the rear end of said ground engaging portion, transverse braces secured to the foremost and topmost part of said loops to serve as a hand and foot rest respectively, a standard secured on said ground engaging portion of each of said runners and positioned in the plane of said loop, said standards having an elongated foot portion contacting the major part of said ground engaging portion of the runners and a rear inclined slightly concave top part to contact and secure the rear end portion of said downwardly inclined portion of the runners a transverse member mounted on said standards to form a seat and to maintain said runners in spaced parallel relationship, said seat disposed at a level lower than the front part of said downwardly inclined portions whereby the latter form guards for the user of the sleigh and an inclined transverse plate member secured to and extending along the rear edge of said seat to form a back, said plate secured at both ends to said downwardly inclined portions of said runners.

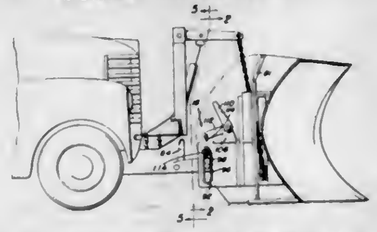


2,642,293
GUIDE SHEAVE ARRANGEMENT FOR CONTROL CABLE EXTENDING BETWEEN TRACTOR AND TRAILER VEHICLES CONNECTED BY A WEIGHT-TRANSFERRING HITCH
Lovel Reynolds Simmons, Jackson, Miss.
Application November 1, 1948, Serial No. 57,676
3 Claims. (Cl. 280—33.2)



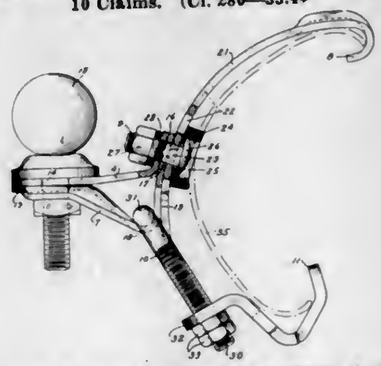
1. In a cable guide arrangement for a control cable extending rearwardly from a tractor to a trailer connected with the tractor by a weight-transferring hitch structure universally articulately connected with the tractor and comprising a yoke having widely spaced legs pivotally connected with the rear of the tractor extending downwardly and forwardly and having their footing portions pivotally connected with the tractor about a horizontal axis extending transversely of the tractor, a pair of sheave housings respectively connected with the legs of said yoke for swinging about generally upright axes spaced transversely from the sheave wheel axes which are disposed for rotation about substantially horizontal axes, and cable guide sheaves on the rear of the tractor at positions above said yoke and being so disposed with respect to the yoke that a control cable flight can extend from one of the last named sheaves in a straight line to and about one of the yoke mounted sheaves and that a second control cable flight can extend from the other of the last mentioned sheaves in a similar manner to the other of the yoke mounted sheaves.

2,642,294
SNOWPLOW ATTACHMENT
Julius A. Holm, Iron River, Mich., assignor of one-third to Stanley G. Wales, Jr., one-sixth to Walter Lindstrom, and one-sixth to Lawrence Lindstrom, all of Iron River, Mich.
Application October 31, 1950, Serial No. 193,059
2 Claims. (Cl. 280—33.13)



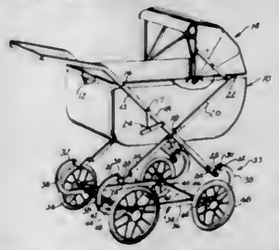
1. A hitch for attaching a snow plow to a tractor comprising a pair of pusher bars adapted to be attached to the tractor to extend forwardly therefrom in laterally spaced relation and having forwardly opening bifurcated ends, a pair of rearwardly extending vertically slotted plates rigidly attached to the snow plow and spaced apart to straddle said bifurcated ends, a cross shaft vertically adjustable in said slots for horizontal alignment with said bifurcated ends to be entered into the same, latch devices on said bars for retaining said shaft in said bifurcated ends, and manually operative devices carried by said plates for adjusting said shaft vertically.

2,642,295
VEHICLE TOW COUPLING
Howard C. Riemann, West Allis, Wis., assignor to The Fulton Company, West Allis, Wis., a corporation of Wisconsin
Application September 8, 1952, Serial No. 308,427
10 Claims. (Cl. 280—33.44)



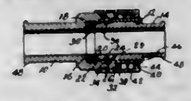
1. In a vehicle bumper tow clamp, a draft frame comprising an upper member having a flat coupling attachment platform at one end and an integral upstanding wall at its opposite end and a lower member also having a platform at one end and an integral upstanding wall at its opposite end but being provided between said ends with an integral depending portion forming a transverse pivot socket extending entirely across the widths of said members, the platforms of said members being rigidly united and having a coupling attaching opening therein and said walls of the members also being rigidly united and having a polygonal opening therethrough, an upper bumper clamping jaw having an elongated supporting portion adjustably attachable to said walls at said polygonal opening, an inverted U-shaped element swingably suspended from said socket, and a lower bumper clamping jaw adjustably suspended from said element.

2,642,296
PERAMBULATOR FRAME
Benjamin F. Leber, Chicago, Ill.
Application June 17, 1949, Serial No. 99,774
3 Claims. (Cl. 280—106)



1. A perambulator or the like chassis comprising a pair of identical parallel C-shaped side frame members, each formed of a steel strap whose faces are entirely planar, and having a horizontally extending intermediate portion and axle-receiving holes through the ends of said intermediate portion, the holes of each strap being coaxial with the respective holes of the other strap, each strap having identical resilient open end loops, each loop being curled upward with its free terminals overhanging parts of said strap, said terminals of each strap being farther apart than said axes, and struts extending adjacent and between said axes and united to said intermediate portions and entirely between said side frame members, each strut being formed of a steel strap arranged with its faces substantially vertical and of substantially the same cross-section as said side frame members, the terminals of said struts being united to said straps, the intermediate portions of said struts being parallel to said axes.

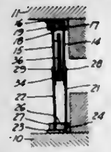
2,642,297
COUPLING
Glenn Eager Hanna, Baltimore, Md., assignor to Breco Manufacturing Company, Baltimore, Md.
Application September 10, 1948, Serial No. 48,620
4 Claims. (Cl. 285—169)



1. A breakaway coupling separable in response to a predetermined tensile force comprising a

socket having a wall penetrated by a detent pocket, a detent received in said pocket and movable in a radial path, a detent operator having an inclined surface in bearing engagement with said detent, a helical spring coaxial with said socket biasing said operator towards a detent confining position, a housing member fixed to said socket enclosing said operator and spring, and a plug for said socket, said plug having a recess registrable with said detent and an inclined wall disposed at an acute angle to said path engageable with said detent to impart radial movement thereto and thereby transmit separating force to said operator in opposition to said spring.

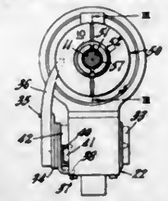
2,642,298
SEALING ASSEMBLY
Lawrence G. Saywell, San Mateo, Calif., assignor to Saywell Associates, South San Francisco, Calif., a joint venture
Application September 29, 1947, Serial No. 776,733
4 Claims. (Cl. 286—11)



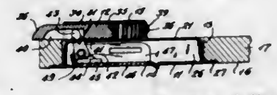
1. In a sealing device for establishing a fluid tight seal between relatively rotatable inner and outer parts having an annular space therebetween for receiving said sealing device, said device comprising an outer sealing structure adapted to be carried by said outer part in fluid tight relation therewith, said structure including a pair of annuluses formed of thin spring metal and spaced apart in the direction of the shaft axis, an inner sealing structure adapted to be carried by said inner part in fluid tight relation therewith, said inner structure including a pair of spaced annuluses formed of thin spring metal having their outer peripheral margins in overlapping relationship and in sealing contact with the inner peripheral margins of the first pair of annuluses, one pair of said annuluses having both its said margins disposed exterior to the assembly and engaging the outer faces of the other pair of annuluses, said one pair of annuluses being stressed laterally in opposite directions to urge the said margins of the same into sealing engagement with the overlapping margins of the other pair, a thrust receiving ring inserted between and with its sides in contact with the innermost overlapping margins of the spring metal annuluses, the ring being formed as an annular body having an uninterrupted thickness corresponding generally to the spacing between the annuluses and serving to receive thrust applied in compression to the opposed sides of the body, and supplemental means inserted between said spring metal annuluses and serving to retain said thrust receiving ring against radial displacement.

2,642,299
SELF-LOCKING ADJUSTABLE ROD COLLAR
Clinton E. Deardorff, San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 3, 1949, Serial No. 68,785
4 Claims. (Cl. 287—52.03)

1. An adjustable self-locking collar adapted for use on a cylindrical rod, said collar comprising: a plurality of similar segments, each segment consisting of a hub portion and a skirt portion, each hub portion having cylindrically curved inner and outer surfaces and flat end surfaces, and having axial thickness comparable to its radial thickness, and each skirt portion being substantially thinner axially and substantially thicker radially than the hub portion and joined at its inner edge to the outer edge of said hub portion; and spring means engaging said hub portions of said segments and urging them radially inwardly; the inner surfaces of said hub portions having the same radius of curvature as the cylindrical rod for which the collar is adapted.



2,642,300
FLUSH TYPE DOOR LOCK
Albert L. Pekin, Maple Heights, Ohio, assignor to The Eastern Malleable Iron Company, Naugatuck, Conn., a corporation of Connecticut
Application March 14, 1951, Serial No. 215,517
1 Claim. (Cl. 292—173)



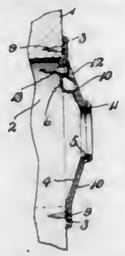
In a lock intended for substantially flush installation in a surface opening of a door, a sheet metal body member of substantially quadrangular pan-like shape having side walls and a substantially flat bottom wall defining a recess of substantially uniform depth extending into said body member from the front thereof, said body member also having a substantially continuous lateral flange extending around the front recess thereof and engageable with the door surface, a substantially channel shaped sheet metal guide member having lateral flanges secured to said bottom wall and mounting said guide member on the back of said body member for defining a longitudinal guideway thereon, said bottom wall having a longitudinal slot therein connecting said recess with said guideway, a bolt slidable in said guideway and having a slot therein substantially in register with the slot of said bottom wall, a spring in said guideway engaging said bolt, a handle comprising a substantially quadrangular sheet metal plate member disposed in said recess and being of a plan size to form a cover for a portion of said recess with one end of said handle spaced from one end of said recess to permit insertion of the fingers therebetween, said handle having a pair of inturned integral flanges thereon extending into said recess adjacent a pair of the side walls of said body member, pivot means connecting said flanges with said pair of side walls adjacent the other end of said recess for swinging of said handle outwardly and inwardly of said recess, and a sheet metal arm rigidly connected with said handle and having a blade portion extending rearwardly from the handle through the slot of said bottom wall into said guideway and engaging in the slot of said bolt, said spring being effective to extend said bolt from said guideway and to cause swinging of said handle inwardly of said recess to a retracted position therein and said arm being effective on said bolt for retracting the latter against said spring in response to manual swinging of said handle outwardly of said recess, the slot of said bolt being of a length such that a portion thereof forms a clearance space for said arm which permits inward movement of said bolt in opposition to said spring while said handle remains in its retracted position in the recess of said body member.

2,642,301
KEEPER MECHANISM
Waldemar A. Endter, Long Beach, Calif.
Application May 1, 1950, Serial No. 159,218
6 Claims. (Cl. 292—341.13)



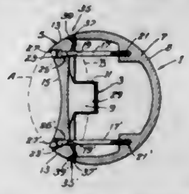
1. A keeper having a stationary projection adapted to be engaged by a rotary bolt and received between successive circularly-spaced heads carried by the bolt, and yielding means carried by the keeper adjacent one side of said projection in position to be engaged by a first of said bolt heads and to yieldingly urge said first bolt head in a direction tending to rotate said bolt and thereby effect engagement of a second of said bolt heads against the opposite side of said projection while the first bolt head remains engaged against said yielding means.

2,642,302
REINFORCED ESCUTCHEON PLATE
Herbert Young, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application October 9, 1950, Serial No. 189,237
9 Claims. (Cl. 292—357)



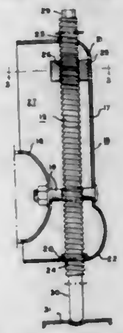
5. In an escutcheon plate assembly adapted to be mounted upon a door, the combination comprising: a pair of plates including an inner plate and an outer plate, said inner plate adapted to nest snugly within said outer plate; each of said plates arched toward its center and away from said door; an opening through each of said plates, said openings being axially aligned; the edge of said outer plate about said opening being flanged inwardly into the opening in said inner plate and engaging the radially inwardly facing walls of said opening in said inner plate.

2,642,303
AUTOMOBILE BUMPER GUARD
Paul M. Mitchell, Chicago, Ill., assignor of one-half to Alice M. Mitchell, Chicago, Ill.
Application August 4, 1947, Serial No. 766,015
14 Claims. (Cl. 293—65)



1. A guard element for a bumper, said element comprising a front portion and a rear portion, at least one opening defined by said portions through which the bumper is adapted to extend, and means for securing the two portions together with the bumper being gripped between the two portions, said rear portion having a spherical surface and said front portion including an inwardly curved surface.

2,642,304
AUTOMOBILE BUMPER GUARD JACK
Clyde H. Haynes, Elyria, Ohio
Application January 5, 1949, Serial No. 69,365
2 Claims. (Cl. 293—69)



1. A device permanently securable to a vehicle and adapted to be temporarily used with a long vehicle lifting screw member, said device comprising, a modified channel shaped bumper member permanently securable horizontally to and externally of a vehicle with the bumper member opening towards the vehicle and providing a generally curved outer surface, a guard of modified U-shaped cross-section opening towards the bumper member and permanently secured and attached to said bumper member, said guard having a top portion and a bottom portion provided with openings located beyond the curved outer surface of the bumper member thus providing a vertical passageway externally of the bumper member and internally of the guard whereby a long lifting screw member may be temporarily and removably inserted downwardly into the opening in the top portion and outwardly through the opening in the bottom portion of said guard, at least one of said openings providing screw member guide means, and threaded means secured within and to said guard in alignment with said openings and cooperatively engageable with

a vehicle lifting screw member temporarily inserted downwardly through said openings for lifting the vehicle by turning of the screw member, said guard having spaced side walls overlying and secured against said curved outer surface to maintain said guard in vertical alignment relative to said horizontal bumper member thereby maintaining the lifting member in vertical position while the vehicle is temporarily being lifted.

2,642,305
GARDEN WEEDER
George S. Butler, Sunbury, Ohio
Application May 1, 1946, Serial No. 666,347
2 Claims. (Cl. 294—50.6)



1. A weeding tool comprising an elongated handle, a metallic soil-penetrating and weed-cutting blade carried by and projecting from the lower end of said handle, said blade being notched at its lower end to produce a pair of cutting edges arranged in substantially V-shaped order, said edges forming an apex at their upper ends, and a pair of relatively equidistantly spaced prong elements stationarily mounted on the front face of said blade contiguous to the apex of said notch on opposite sides of the longitudinal center of said blade, each of said prongs extending angularly and upwardly with respect to the plane of the front surface of said blade and in parallel order throughout their length, whereby to engage plants whose roots have been severed by said cutting edges to cause the removal of said plants from the soil with the lifting of the tool.

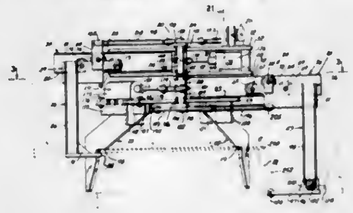
2,642,306
SCRAP PAPER SPEAR
William R. Beeler, Tampa, Fla.
Application March 16, 1951, Serial No. 216,021
2 Claims. (Cl. 294—61)

1. A trash spear comprising an elongated tubular housing, an elongated spear rod slidably mounted in said housing having a pointed end extending from one end of the housing when the spear rod is in a projected, operative position, an elongated handle having one end slidably disposed in the housing and extending from the opposite end thereof, said handle end being detachably connected to the opposite end of the spear rod, spring means contained within said housing and urging the spear rod to a retracted position, a trigger member pivotally mounted on the housing externally thereof and having an end disposed to extend into a portion of the housing, said handle end having a trigger detent engaged by said trigger end when the spear is in a projected position, a trigger spring urging said trigger end inwardly of the housing and into engagement with the trigger detent, said housing being provided with an internally disposed stop located remote to the pointed end of the spear rod, an



adjustable stop secured to the spear rod, and a cushioning spring interposed between the housing stop and said adjustable stop for cushioning the movement of the spear rod toward a retracted position under the biasing action of said spring means.

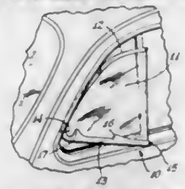
2,642,307
GRAB
Walter J. Olson, Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware
Application January 26, 1949, Serial No. 72,818
14 Claims. (Cl. 294—67)



1. In a grab of the type adapted to support a mold having upper and lower portions that are separable from each other, a supporting frame, and a plurality of grappling arms mounted on said frame in an annular series with each of said arms being slidably movable on said frame radially of said series into and out of a predetermined position, alternate ones of said arms being positioned to supportingly engage said upper and lower portions, respectively, of such a mold when disposed in said predetermined position.

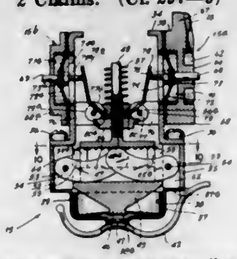
2,642,308
WATER REMOVING DEVICE FOR VEHICLE VENTILATING WINDOWS
August J. Bohn, Atlanta, Ga.
Application January 26, 1952, Serial No. 268,364
13 Claims. (Cl. 296—44)

1. A water removing device for a window having a windowpane comprising a tubular member having a nozzle provided with a relatively narrow aperture means directed toward said windowpane and a discharge opening and having means intermediate the ends thereof to apply suction



to the nozzle to draw water therein through said narrow aperture means and deliver the water to the discharge opening; and means securing the tubular member to the window.

2,642,309
TEMPERATURE RESPONSIVE ACTUATOR
Joseph A. Wasser, Kirkwood, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri
Application July 7, 1950, Serial No. 172,547
2 Claims. (Cl. 297—9)



1. In a device of the class described, a temperature responsive actuator including a cup-shaped expansible chamber having a displaceable inner bottom wall, a base member for supporting said cup-shaped chamber at its open end and having a bore therethrough concentric with said chamber, a cup-shaped follower member slidably fitted in said bore and adapted to engage said displaceable wall, an actuating member having an inverted cup-shaped portion slidably received in said cup-shaped follower member in telescopic relationship, and a pair of levers lying between the bottom walls of said follower member and said actuating member portion, said levers extending laterally through the side walls of said follower member and said actuator member portion and being pivotally mounted at their outer ends in said base member, and said levers being slightly curved so as to be engaged at one side by the bottom of said follower member at a point intermediate of their ends and so as to engage the bottom of said cup-shaped actuator member portion at a point near their free ends.
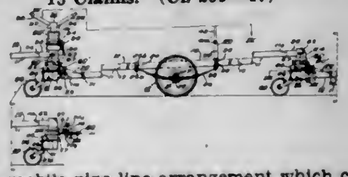
2,642,310
DIFFUSER AND BINDER BASE FOR RESIDUE OF EVAPORABLE MATERIAL
George W. Meek, Pelham, and William H. Wheeler, New York, N. Y., assignors to Airkem, Inc., New York, N. Y., a corporation of New York
Application March 22, 1950, Serial No. 151,212
3 Claims. (Cl. 299—24)

1. A dispensing unit of volatilizable material containing minor portions of nonvolatilizing residue forming components, said dispensing unit comprising a relatively flat receptacle having an enlarged bottom wall, a low peripheral side wall, and being open at the top thereof, and said bottom wall having a thin fibrous layer ar-



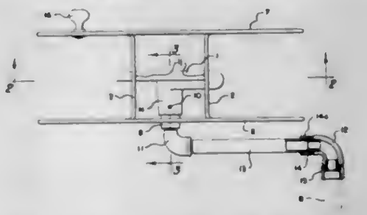
ranged along and in close proximity thereto, the surface of said fibrous layer being adherent to the volatilizable material and providing means for adhering bodies of said nonvolatilizing residue in fixed position with respect to said receptacle.

2,642,311
MOBILE PIPE LINE
Walter O. Beyer, Pittsburgh, Pa.
Application December 3, 1948, Serial No. 63,332
15 Claims. (Cl. 299—47)



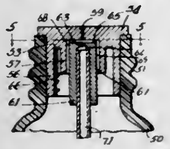
1. A mobile pipe line arrangement which comprises, a pipe section having a reinforced central portion, a wheeled carriage mounted on said reinforced central portion, a lifting mechanism operably connected between one end of said carriage and said pipe section, and said lifting mechanism being constructed and arranged to lift one end of said pipe section on the other end of said carriage, said one end of said pipe section being provided with a lift-out type of fluid coupling.

2,642,312
GARDEN HOSE REEL
Thomas Shine, Coronado, Calif., assignor, by direct and mesne assignments, to George G. Ellinwood, San Diego, Calif.
Application May 16, 1949, Serial No. 93,476
4 Claims. (Cl. 299—78)



2. In a garden hose reel apparatus, a pair of spaced apart coaxial rings, a plurality of U-shaped members each having free arms and a base portion, said free arms arranged as spokes in said rings and welded thereto with said base portions extending parallel to and slightly spaced from the common axis of the rings, a combined water conductor and hub member fixedly mounted to and between the plurality of base portions as the common axis of said rings.

2,642,313
UNITARY CONTAINER AND ATOMIZER FOR LIQUIDS
Jules B. Montenier, Chicago, Ill.
Application October 27, 1947, Serial No. 782,243
13 Claims. (Cl. 299—90)



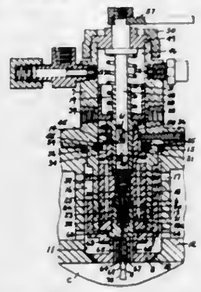
3. An atomizer and closure plug for insertion within the neck of a flexible container for use of the resulting assembly as a self-contained atomizer, comprising a plug body of generally inverted cup shape for insertion within the neck of the container to substantially close the same, an annular flange resting on top of said neck and a downwardly extending annular projection forming a lower generally circular socket, the said plug having a vertical spray opening substantially centrally of said socket, a second generally inverted cup shaped member frictionally supported in said socket, said second cup shaped member having two oppositely disposed exterior, vertical cut-away portions, and a top transverse groove communicating at its ends with said cut-away portions, said second cup shaped member having a liquid opening communicating with said groove and in alignment with said spray opening, said groove forming opposed restricted air passageways on opposite sides of said liquid opening and spray opening when said second cup shaped member is fully inserted in its said socket, and a liquid carrying tube for insertion in a liquid in said container, said liquid carrying tube having its upper end frictionally supported in said second cup shaped member.

2,642,314
DRIPLESS STEAM SHOWER PIPE
Joseph H. Dupasquier, Oregon City, Oreg., assignor to Crown Zellerbach Corporation, San Francisco, Calif., a corporation of Nevada
Application April 14, 1951, Serial No. 221,071
5 Claims. (Cl. 299—104)



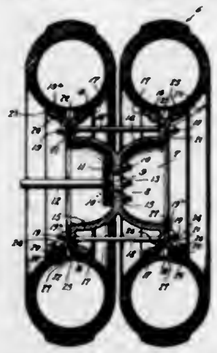
1. In a steam shower device of the character described, a pipe having a longitudinal slot extending along said pipe for a distance corresponding approximately to the desired shower line length, an insert in said slot, the sides and ends of said insert joined to the side and end edges of said slot in a leak-proof connection, the lateral sides of said insert extending in planes converging within said pipe, and steam jet holes extending through said insert for the discharging of steam jets from said pipe, said jet holes located along the ridge formed by the converging lateral sides of said insert and all extending in a single longitudinal plane with the axis of the pipe.

2,642,315
FUEL INJECTION APPARATUS
Louis O. French, Milwaukee, Wis.
Application November 21, 1951, Serial No. 257,525
10 Claims. (Cl. 299—107.2)



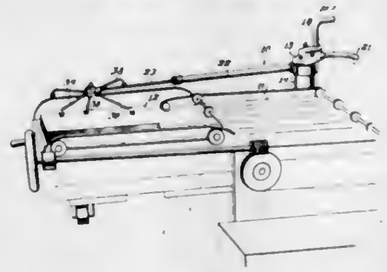
1. In a compression pressure operated fuel injection apparatus for internal combustion engines, the combination of a reciprocatory operating piston movable outwardly of the combustion chamber of the engine by compression pressure, a fuel pump having relatively movable parts including a part movable with said piston and a fuel pressure operated discharge valve, a fuel discharge extension beyond said discharge valve for the discharge end of said pump mounted on said operating piston, a housing for said operating piston including a part communicating with the combustion chamber of the engine and having a bore connected with a fixedly positioned spray orifice communicating with the combustion chamber of the engine, said extension being movable in said bore at all times to supply fuel under pressure to said orifice during the outward movement of said operating piston.

2,642,316
AUTOMOBILE WHEEL MOUNTING
Antonio E. Frandi, Mexico City, Mexico
Application October 12, 1949, Serial No. 120,929
2 Claims. (Cl. 301—36)



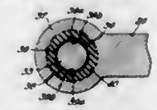
1. A one piece dual disc wheel construction, comprising a vehicle wheel having a unitary one piece hub portion, said integral hub portion being divided outwardly from its middle portion into oppositely disposed, reversely curved cup-form portions, a radially extending circumferential flange extending from adjacent the outer margins of each cup-portion, each of said flanges terminating in a circumferential tire wall and bead-receiving rim portion for supporting the inner side portions of adjacent tires, a circumferential series of circumferentially spaced bars connecting said circumferential flanges between said cup portions of the hub and said tire supporting rim portions whereby to reinforce the structure, said rods being concealed by said flanges and rim portions, threaded studs extending axially away from said half rim sections in the regions of said rods, whereby to be in part sustained and reinforced by the latter, and removable half rim sections having openings through which the studs extend and adapted to embrace the outer bead portion and adjacent tire wall of a tire.

2,642,317
SPRAY GUN
Edward E. King, Los Angeles, Calif.
Application January 18, 1951, Serial No. 206,668
3 Claims. (Cl. 302—63)



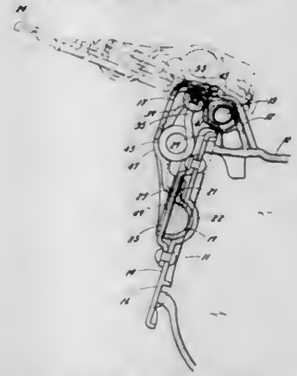
1. Dusting apparatus for printed sheets comprising, in combination, a tubular supporting arm through which dusting material is caused to travel, a flat cylindrical body having a shallow dispersion chamber therein, a radial inlet to said chamber having an end of said tubular arm connected therewith for discharge into the chamber, said body having a plurality of outlet ports opening from said chamber through one flat side of the body, a plurality of nozzle tubes each having one end swivelly connected in an outlet port and extending outwardly from the body, said tubes being disposed in a common plane parallel with said one flat side of the body and swingable in said plane to extend in different directions from the body, and a downwardly directed discharge nozzle carried upon the outer end of each tube.

2,642,318
BEARING ASSEMBLY
Bernard E. Ricks, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 25, 1950, Serial No. 146,196
4 Claims. (Cl. 308—26)



1. In a joint assembly of the type having an angularly displaceable member and a housing, a segmented bearing comprising a plurality of similar separable mated cylindrical segments, one edge portion of each segment being offset radially outwardly to overlap an adjoining edge portion of a corresponding mating segment and an elastic resilient tube between the bearing and the housing normally urging the segments of the bearing into full bearing engagement with the angularly displaceable member.

2,642,319
JOURNAL BOX LID
Albert O. Buckius, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application August 19, 1948, Serial No. 45,125
5 Claims. (Cl. 308—47)

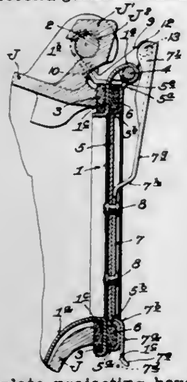


1. A lid for closing the front opening of a railway journal box, said lid comprising a closure member and a hood member flexibly connected together, a spring terminating in a pair of leg portions engaging said hood member whereby the closing force of said spring acts directly against said hood member, said hood member having means at its upper end for pivotal connection to said box and having a pair of spaced legs with a channel portion connecting the lower ends of said legs, said channel portion having a ball portion facing said closure member, said closure member having a centrally disposed socket for receiving said ball portion to provide for universal movement between said members, said ball portion engaging said socket and serving to transmit the closing force of said spring from said hood member to said closure member, and strap means received in and bridging said channel portion and being secured to said closure member, said channel portion comprising upstanding flanges extending lengthwise of said strap means and being disposed adjacent the sides of said strap means for engaging therewith to limit relative angling between said members in the plane of said closure member.

2,642,320
JOURNAL BOX LID
Donald D. Bryant, Huntington, W. Va.
Application November 28, 1950, Serial No. 197,997
17 Claims. (Cl. 308—47)

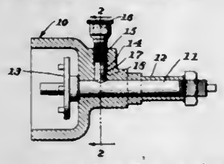
1. In combination with a journal box or the like, having a bottom wall sloping upwardly and outwardly and terminating at on opening in the outer end thereof, a hinge lug on the top of the box; a hinge pin in said lug; a lock seal lid, comprising a frame hinged on said pin and having an opening therein corresponding in area with

the box opening; a gasket around the inner face of the frame adapted to engage the end of the box around said opening; means for maintaining the frame in tight contact with the box end; a second hinge pin mounted on the outer face of the frame adjacent the top thereof; a cover plate hinged on the second pin and adapted to overlie the frame; a second gasket around the inner face



of the cover plate projecting beyond said inner face and adapted to contact the outer face of the frame; a cam mounted on the frame projecting outwardly of the hinge lug of the journal box; and resilient means on the cover plate yieldably constantly engaging the cam for locking the cover plate in tight contact with the frame when the cover plate is closed and for holding the cover plate in open position when the cover plate is opened.

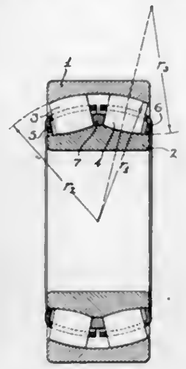
2,642,321
SHAFT TIGHTENER INSERT
William Van Dyke, Averill Park, N. Y.
Application January 9, 1951, Serial No. 205,122
2 Claims. (Cl. 308—65)



1. In combination a housing, a shaft rotatably supported therein, an opening through said housing communicating from the exterior with said shaft, a shaft tightener insert within said opening, said insert comprising a tubular member having an arcuate cylindrical bearing surface at one end thereof adjacent said shaft, and a lubrication cup having its discharge end adjustably received at the end of the opening communicating with the exterior for obtaining an optimum drag between said shaft and said shaft support.

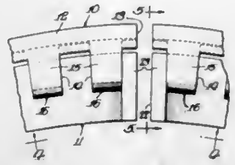
2,642,322
ROLLER BEARING
Nils Arvid Palmgren, Goteborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden
Application June 30, 1949, Serial No. 102,406
In Sweden July 21, 1948
2 Claims. (Cl. 308—212)

1. A roller bearing having an outer race ring having a concavely curved bearing surface, an inner race ring having a concavely curved bearing surface, and a series of rolling members interposed between said rings and each having a convexly curved bearing surface, the contacting surfaces of the said races and rollers differing from each other in curvature in all planes, the concavely curved generatrix of the bearing surface of the outer race ring exhibiting a flatter curvature than the convexly curved generatrices



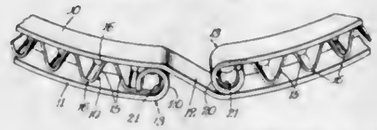
of the bearing surfaces of said rollers, and the concavely curved generatrix of the bearing surface of the inner race ring exhibiting a flatter curvature than that of the generatrix of the bearing surface of said outer race ring, and the major axes of the areas of contact of an individual of said rollers with the bearing surfaces of the race rings when the bearing is under load being of the same length at both the inner and outer race rings.

2,642,323
PISTON RING
Denny D. Duesenberg, Hagerstown, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application December 29, 1949, Serial No. 135,722
10 Claims. (Cl. 309—45)



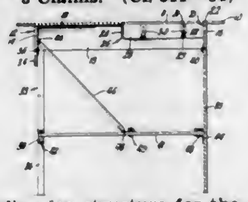
1. A piston ring comprising a ring member having a gap and comprising a pair of axially spaced cylinder-engaging flanges integrally connected by circumferentially spaced web members extending radially inward from the flanges whereby the flanges comprise only a portion of the radial width of the ring member to render the latter radially flexible, and an annular spring member substantially stiffer than and positioned within said ring member and provided with a gap, said spring member having its ends engaging the ends of the ring member and tending to force the ends of the ring member apart to expand the ring member and thereby hold said flanges in engagement with the cylinder.

2,642,324
PISTON RING ASSEMBLY
Macy O. Teetor, New Orleans, La., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application March 15, 1951, Serial No. 215,758
13 Claims. (Cl. 309—45)



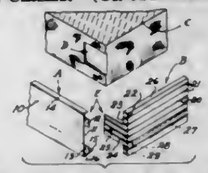
7. A piston ring assembly comprising a strip of metal bent edgewise to provide two concentric turns in axially spaced relation and connected by an intermediate portion extending between the ends of the strip, said ends being reversely bent to form rounded loops between the turns, and a contractile spring having rounded loops at its ends fitting snugly within and conforming to the shape of the first mentioned loops to secure the spring thereto, said spring tending to separate the ends of the strip to expand the turns.

2,642,325
FOLDING LEG STRUCTURE FOR TABLES
Howard W. Hinsken and Herbert H. Giesler, Buffalo, N. Y.
Application December 26, 1951, Serial No. 263,162
3 Claims. (Cl. 311—84)



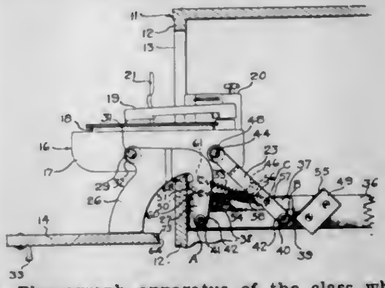
1. A folding leg structure for the rectangular in plan top frame of a table, comprising an end panel of substantially the same length as the width of said top frame, and forming, in the set up condition of said table, a downward continuation of one end of said top frame, hinge means connecting said end panel with said one end of said top frame and permitting said end panel to be swung toward the other end of said top frame to a horizontal position under said one end of said top frame, at least one leg projecting downwardly from said end panel in the set up condition of the table and secured to the inner face of said end panel so as to be received in said top frame when said end panel is swung to said horizontal position, a second end panel of substantially the same length as said first end panel and forming in the set up condition of the table a downward continuation of said other end of said top frame, and hinge means connecting said second end panel with said other end of said top frame and permitting said second end panel to be swung toward said one end of said frame to a horizontal position under said top frame, the height of said second end panel, when erect, being approximately equal to the combined height, when erect, of said first panel and leg and the combined height, when erect, of said first and second panels being approximately equal to the distance between the axes of their hinges whereby in said horizontal position said end panels have closely spaced meeting ends.

2,642,326
EDGE TRIM CORNER CONSTRUCTION FOR TABLE TOPS OR THE LIKE
Ralph E. Taylor, Cleveland Heights, Ohio, assignor to The Enamel Products Company, Cleveland, Ohio, a corporation of Ohio
Application September 12, 1949, Serial No. 115,246
4 Claims. (Cl. 311—107)



1. A corner construction for an edge-trimmed top of a table, desk, counter or the like comprising top structure forming a corner; a first section of edge trim affixed to said top structure on one side of the corner, said first section extending toward but falling somewhat short of the corner; a second section of edge trim affixed to said top structure on the other side of the corner, said second section extending toward, turning, and projecting for a short distance beyond the corner in such manner that the end thereof opposes the end of the first section where the latter falls short of the corner; top and bottom flanges on each of said sections, one of said flanges being wider than the other; and interlocking means preventing lateral displacement of both and endwise displacement of at least one of said sections, said means being received within a concealed recess formed in said top structure behind said first section.

2,642,327
SUPPORT FOR SOUND-REPRODUCING APPARATUS
Edward W. Swanson, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application January 9, 1947, Serial No. 721,025
11 Claims. (Cl. 312—8)



1. Phonograph apparatus of the class which includes a cabinet having an automatic record player therein which is swingable between an inaccessible station and an accessible station through the agency of a set of links pivoted to the record player and to the cabinet at points below said record player the swingability of which is affected by means comprising, stops on the cabinet, and a pair of tension springs connected to said links at anchorate points between the pivotal points on the cabinet and the record player about which the links are swingable, the position of the anchorate points for said springs being co-axial on one of said links and spaced apart on another of said links, providing for in-

creasing tension alternately in said pair of springs as said record player is shifted toward one or the other of the stops.

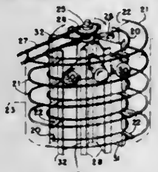
9. A movable support for a device, comprising pairs of links pivotally secured at one end to an unmoving member, means supported by the other ends of said links for movement between alternative positions when said links are moved, cushioning means for cushioning the movement of said links when they are swung toward either ends of their pivotal movement comprising a pair of springs, each spring being connected at one end to one of a pair of said links at a point on a line between the pivot points of said link, the other end of each spring being connected to one of the other pair of said links at a point on a line through the fixed pivot point but angularly displaced from a line through both pivot points of that link so that said springs will each alternately be extended from its minimum length at both said alternative positions.

2,642,328

DISPENSER FOR CYLINDRICAL ARTICLES

George Nystedt, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 26, 1950, Serial No. 164,532
2 Claims. (Cl. 312—97.1)



1. In a dispenser for cylindrical articles of the type in which the articles are supported in a substantially horizontal position on a circular spiral ramp, the combination with said ramp of a rotatable member disposed inside the ramp for pushing the articles along the ramp, said member comprising a plurality of vanes spaced from each other to form a plurality of compartments each adapted to receive one of the articles to be dispensed, each of said vanes having a first portion extending in a radial plane outwardly from the axis of the pusher member, said first portions of adjacent vanes receiving therebetween and closely confining the inner ends of the articles, said vanes each having a second portion thereof extending outwardly from said first portion and angularly offset from the radial plane of said first portion in the direction of rotation of said pusher member, the outer end of said second portion engaging the article at a point spaced from the inner end thereof, the outer end of the second portion of one blade cooperating with the first portion of the preceding vane to maintain the outer end of said article ahead of the inner end of the article whereby the article tends to move inwardly during rotation of said pusher member.

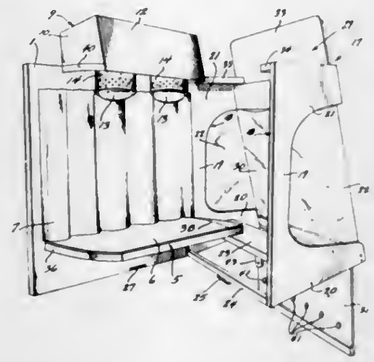
2,642,329

DISPLAY CABINET

Harold J. Fitzgerald, Milwaukee, and Henry S. Berry, Fox Point Village, Wis.; said Berry assignor to said Fitzgerald

Application December 19, 1951, Serial No. 262,386
5 Claims. (Cl. 312—138)

1. In a display cabinet intended for wall mounting a back stage including wall attachment means for attaching the same securely to a wall; a fore stage projecting forwardly from and secured to said back stage near the bottom thereof; an enclosure for said back stage and fore stage comprising a pair of vertical side enclosure panels ranged along the side margins of said back stage and a front enclosure panel comprising a lower cross member extending between the lower forward margins of said side panels, an upper cross member extending between the upper forward margins of said side panels, and transparent sheet material extending between and seated in said lower and upper cross members; said enclosure closely surrounding said fore stage and



extending upwardly therefrom at the front and sides thereof; a bottom cover beneath said forestage extending when in closed position between said pair of vertical side enclosure panels and between said back stage and said lower cross member of said front enclosure panel supported for movement with respect to said enclosure toward and away from closed position providing access to the space beneath said forestage and bounded by said back stage and said enclosure; and a horizontal top member extending across the top of said enclosure; said front enclosure panel being mounted for swinging movement whereby said panel may be moved away from said fore stage to render the same accessible.

2,642,330

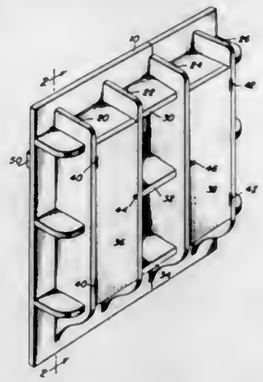
KNOCKDOWN CABINET

Sarah T. Armour, Bono, Ark., assignor of fifty per cent to Charles H. Armour, Bono, Ark.

Application September 20, 1949, Serial No. 116,833
1 Claim. (Cl. 312—257)

A shelf structure comprising a rear panel having a plurality of horizontally spaced vertically elongated apertures therethrough, a plurality of horizontally spaced vertically disposed parallel side members each having a plurality of vertically spaced horizontal elongated apertures therethrough, said side members being received in said vertical apertures, a plurality of vertically spaced horizontal shelves extending through said horizontal apertures and abutting said rear panel, and a plurality of front panels, each of said front panels being hingedly secured adjacent one of its vertical edges to one of said side members forming covers for cabinets formed by said side members, said rear panel, and said shelves, said rear

panel being made in sections, said sections being hingedly secured together, and rigidifying means



secured across said sections, said rigidifying means being attached to said side members.

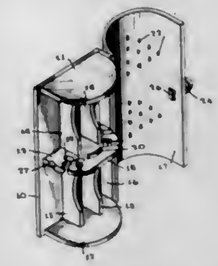
2,642,331

TOOTHBRUSH CABINET

Foster C. Sprinkle, Winston-Salem, N. C.

Application March 20, 1951, Serial No. 216,551
3 Claims. (Cl. 312—283)

1. In a reversible cabinet, a plane vertical back wall, upper and lower end walls projecting forwardly from the upper and lower ends of said backwall, said upper and lower end walls being similar and being similarly arranged on the backwall and being perpendicular thereto, said endwalls having side edges spaced laterally inwardly from the side edges of the backwall, a hinge strip extending vertically along one side edge of the back plate and taking up the space between such side edge and the adjacent side edges of the endwalls, said hinge strip projecting perpendicularly from the backwall and having a free edge, a single door having a vertical side edge hinged on the free edge of the hinge strip and a free vertical side edge arranged to abut the



backwall in the closed position of the door with the free edge of the door occupying the space between the adjacent vertical side edge of the backwall and the adjacent side edges of the upper and lower endwalls, said cabinet having a horizontal partition secured to and projecting forwardly from said back wall at a point midway between said upper and lower end walls, and interengaging means on said partition remote from said hinge strip and on the rear side of the door near its free edge thereof for releasably maintaining the door in closed position.

CHEMICAL

2,642,332

METHOD OF TREATING KERATINOUS YARNS AND COMPOSITIONS THEREFOR

Oscar P. Cohen, Watertown, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 1, 1948, Serial No. 52,427
9 Claims. (Cl. 8—115.6)

1. A process of setting the twist of twisted keratinous yarns which consists in treating said yarns with an aqueous dispersion comprising from 2 to 16% by weight of dispersed particles of a thermoplastic resin selected from the group consisting of vinyl resins and vinylidene resins, which resins are substantially non-tacky when dry, and from about 1 to 4% of an aliphatic mercapto alcohol containing from 2 to 6 carbon atoms which are attached to each other in a carbon-to-carbon linkage, said compound consisting of a mercapto group, at least one hydroxyl group, carbon atoms and hydrogen atoms, until from about 1 to 6% by weight, based on the weight of the dry yarn, of said mercapto compound has reacted with said yarn, the temperature of said dispersion being above about 100° F. during said treatment; extracting said yarns to remove excess liquid therefrom and to deposit from about 1 to 10% by weight of said resin particles based on the dry weight of the yarns; and then drying said yarns.

2,642,333

METHOD OF SPINNING POLYVINYL ALCOHOL FIBERS

Tsukumo Tomonari, Osaka, and Michijiro Akaboshi, Kurashiki, Japan, assignors of one-fourth to Omni Products Corporation, New York, N. Y., a corporation of New York

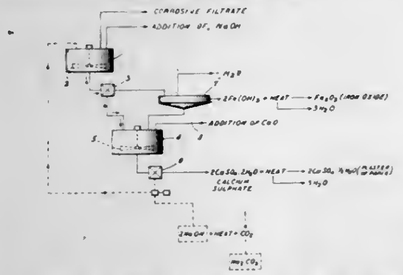
Application April 8, 1950, Serial No. 154,872
In Japan July 26, 1949
1 Claim. (Cl. 18—54)



A method of spinning polyvinyl alcohol fibers comprising the steps of extruding a polyvinyl

alcohol solution into an up-flowing column of a coagulating liquid having a higher specific gravity than said polyvinyl alcohol solution, imparting to said coagulating column and said polyvinyl alcohol solution a parallel upward direction of flow without turbulence, maintaining said unturbulent parallel flow until the polyvinyl alcohol coagulates to filaments, subsequently reducing the diameter of said column, thereby increasing the rate of flow thereof, and stretching said coagulated filaments by said increased rate of flow and the uplift of the filaments in the specifically heavier column of the coagulating liquid.

2,642,334
METHOD OF NEUTRALIZING INDUSTRIAL WASTE
Anthony L. Nugey, Rahway, N. J.
Application September 20, 1947, Serial No. 775,201
3 Claims. (Cl. 23—63)

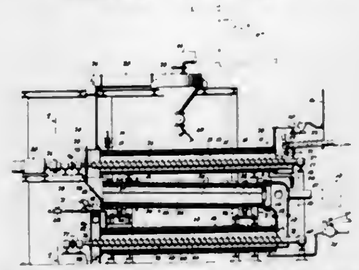


1. The process of treating liquid industrial waste containing sulphuric acid and ferrous sulphate, consisting in adding sodium hydroxide in sufficient quantity to neutralize the acid to the liquid and agitating the mixture, filtering and removing the iron hydroxide filter cake, heating the latter to form iron oxide and water, adding oxide of lime to the liquid filtrate in sufficient quantity to convert the filtrate into a liquid mixture of calcium sulphate and sodium hydroxide and agitating the mixture, filtering said last-named mixture to remove the calcium sulphate, returning part of the sodium hydroxide in said last-named mixture to replenish the sodium hydroxide originally used, and treating the remainder of the second filtrate with heat and carbon dioxide to form sodium carbonate.

2,642,335
PRODUCTION OF THREE-DIMENSIONAL DENDRITIC SODIUM CHLORIDE CRYSTALS
Winston Ewart May, Rudheath, and Thomas Reginald Scott, Acton Bridge, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application January 23, 1950, Serial No. 140,143. In Great Britain February 23, 1949
2 Claims. (Cl. 23—89)

2. A process for the manufacture of sodium chloride of low bulk density in the form of 3-dimensional dendrites which comprises evaporating substantially in the absence of air, brine containing at least 0.5 p. p. m. by weight of an alkali metal iron cyanide, said evaporation being carried out in a manner to permit crystallization to take place almost entirely in the body of the brine with insufficient agitation to disintegrate the crystals formed.

2,642,336
CONVERSION OF SODIUM SULFIDE TO SODIUM SULFITE
John E. Greenawalt, Bronxville, N. Y.
Application May 26, 1948, Serial No. 29,204
15 Claims. (Cl. 23—129)



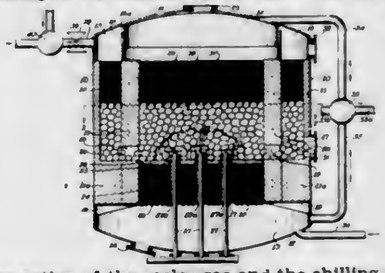
1. A process of treating a charge containing sodium sulphide to convert the sodium sulphide to sodium sulphite which comprises passing said charge in dry state through a pulverizing chamber, passing air through said chamber in contact with said charge, maintaining said charge dry and progressively pulverizing and continuously agitating said charge in said chamber thereby to expose fresh surfaces of sodium sulphide to the oxidizing action of said air while controlling the temperature in said pulverizing chamber within predetermined limits, thereafter passing the pulverized dry particles of charge being treated through another chamber and continuously agitating said particles while passing air therethrough in intimate contact with said dry pulverized charge, and maintaining the temperature in said other chamber at a temperature sufficiently high to oxidize the sodium sulphide to sodium sulphite but not high enough to form more than small amounts of sodium sulphate, thereby to convert the sodium sulphide to sodium sulphite.

2,642,337
METHOD OF CONVERTING CRYSTALLINE ALUMINA HYDRATE TO ALPHA ALUMINA
James W. Newsome, Belleville, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application June 9, 1948, Serial No. 32,037
3 Claims. (Cl. 23—142)

1. The method of converting crystalline alumina hydrate to alpha alumina, comprising heating the alumina hydrate in contact with steam at a pressure of 350–2500 pounds per square inch and at a temperature of 400–550° C.

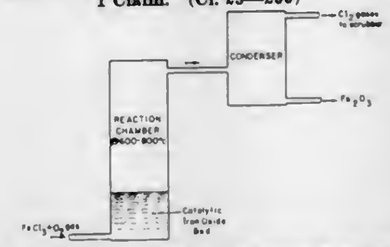
2,642,338
METHOD OF AND APPARATUS FOR PRODUCING NITRIC OXIDE
Robert D. Pike, Pittsburgh, Pa.
Application February 12, 1944, Serial No. 522,044
7 Claims. (Cl. 23—163)

5. In a process for making nitric oxide from a gas containing nitrogen and oxygen in which said gas is passed into a reaction zone maintained at a temperature to produce a substantial amount of nitric oxide and the reacted gas then passed into a pebble chilling bed, the step of introducing into the reacted gas simultaneously with its entrance and into the zone of its entrance into the pebble chilling bed a substantial amount of a cooler gas containing nitric oxide, thereby causing an intimate admixture of the cooler gas and the reacted gas and a shock chilling of the reacted gas by the conjoint addi-



tive action of the cooler gas and the chilling bed, said shock chilling taking place at a sufficiently rapid rate to prevent substantial decomposition of the produced nitric oxide.

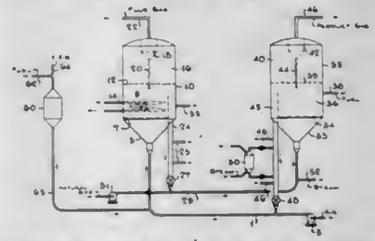
2,642,339
PROCESS FOR OXIDIZING IRON HALIDES TO PRODUCE IRON OXIDE AND CHLORINE
Roscoe H. Sawyer, Christiana, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 6, 1948, Serial No. 58,791
1 Claim. (Cl. 23—200)



A continuous process for producing iron oxide and a chlorine-containing gas, comprising reacting ferric chloride with dry air, conducting the reaction in the vapor phase at temperatures of from 600–800° C. and in a vertical reaction zone containing a bed of finely-divided catalytic iron oxide having a particle size within the range of 35 to 100 mesh, introducing said chloride and air reactants at a gas velocity of 0.5 to 1 ft./sec. and in the ratio of 1.6 pounds of ferric chloride per pound of air into the lower portion of said reaction zone for retention therein for a period of not to exceed 10 seconds for passage upwardly therethrough and to suspend the particles of said bed as a fluidized mass maintained in such constant, turbulent motion and velocity that said particles scour the internal surfaces of the reaction zone and prevent substantial deposition of reaction product thereon, and thereafter removing and recovering from said zone the resulting iron oxide and chlorine products of reaction.

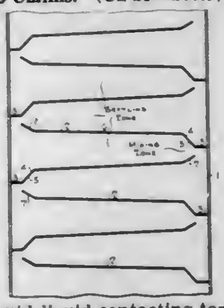
2,642,340
PRODUCTION OF OXYGEN
Homer Z. Martin, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 10, 1946, Serial No. 668,672
5 Claims. (Cl. 23—221)

1. A process for producing oxygen from air which comprises contacting in an oxidation zone said air with a solid oxygen acceptor selected from the group consisting of metals and metal oxides readily oxidizable by air to form a solid oxygen compound giving off oxygen when heated, maintaining said oxygen acceptor in the form of a dense turbulent fluidized bed having a well defined upper dense phase level by causing air to flow upwardly through said bed at a fluidizing velocity, withdrawing gasiform material containing free oxygen from said bed and causing said gasiform material to flow through a second fluidized bed of said oxygen acceptor at a fluidizing velocity, charging a fuel to said second named



fluidized bed of said oxygen acceptor thereby causing combustion of said fuel by means of the oxygen present in the said gasiform material fed thereto, thus adding heat to said second fluidized bed of solids, withdrawing oxidized oxygen acceptor from both of said fluidized beds, conducting the withdrawn oxidized oxygen acceptor to a third fluidized bed disposed in a dissociation zone, causing steam to flow through said last named bed at a flow rate sufficient to maintain the latter in a fluidized condition and to lower the partial pressure of oxygen whereby oxygen is released from said oxygen acceptor, and recovering oxygen from said last named zone.

2,642,341
LIQUID-LIQUID EXTRACTION TOWER
John M. Bradley, Pampa, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 10, 1950, Serial No. 178,569
6 Claims. (Cl. 23—270.5)



1. In a liquid-liquid contacting tower, contacting means comprising a plurality of vertically displaced plate members, each of said plate members comprising a first imperforate plate element fixed to the said tower, a second perforated plate element fixed to said first plate element in upwardly inclined relation, and a third imperforate plate element joined to said second plate element extending across the tower in spaced relation to the opposite side of the tower, each plate mem-

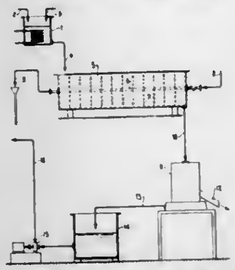
ber being rotated 180° with respect to the next lower plate member whereby each successive plate member is fixed to alternate sides of said tower.

2,642,342

METHOD OF CRYSTALLIZING SODIUM CARBONATE

László Váhl, Muiderberg, Netherlands, assignor to Werkspoor N. V., Amsterdam, Netherlands, a company of the Netherlands

Application April 20, 1951, Serial No. 221,973
In the Netherlands April 24, 1950
3 Claims. (Cl. 23—300)



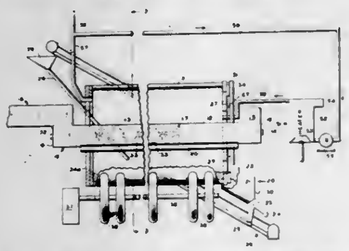
1. A method of producing crystals from a substantially saturated solution of sodium carbonate by cooling said solution to a temperature below 31.4° C., which consists in adding a small amount of a salt of polymannonic acid to the said solution.

2,642,343

PELLETING OF CARBON BLACK

Merton L. Studebaker, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 9, 1948, Serial No. 19,983
14 Claims. (Cl. 23—314)



1. A dry process for producing pellets of chain structure carbon black which are sufficiently hard to withstand bulk shipment, comprising the steps of introducing unsized dry carbon black pellets as subsequently produced and containing all sizes of pellets into the inlet end of an elongated, horizontally disposed hollow cylinder having an inlet end and an outlet end with respect to carbon black flow, introducing dry flocculent chain structure carbon black into said cylinder at an intermediate point but relatively closer to said inlet end, maintaining the carbon black in the cylinder at a temperature between 175° and 300° F., rotating said horizontally disposed hollow cylinder around its longitudinal axis at an optimum rate for pellet formation, withdrawing carbon black pellets of a mixture of sizes up to ⅛ inch in diameter from the outlet end of said cylinder, dividing said pelleted carbon black into two portions, each portion containing said mixture of sizes of pellets up to ⅛ inch in diameter, recycling one portion to the inlet end of the hollow cylinder as the carbon black pellets subsequently produced at such a rate as to maintain a recycle rate of at least ½ to 1 and passing the other portion of said carbon black pellets containing all sizes of pellets up to ⅛ inch in diameter into the inlet end of an elongated, horizontally disposed hollow cylindrical vessel having an inlet end and an outlet end with respect to the flow of carbon black, rotating this cylindrical vessel around its longitudinal axis at a speed greater than the maximum rate of rotation for pellet formation, and withdrawing carbon black pellets from the outlet end of said cylindrical vessel as the product of the process.

2,642,344

ALKALI METAL DISPERSIONS

Herbert K. Livingston, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application July 15, 1950, Serial No. 173,985
14 Claims. (Cl. 44—51)

1. A composition consisting essentially of a dispersion of finely divided alkali metal particles of a size not exceeding about 125 microns in diameter in an organic liquid inert to said metal and having a boiling point above the melting point of said metal and containing 0.001 to 65% by weight of dispersed alkali metal and at least 0.05% but not more than about 5% by weight, based on the alkali metal content of said composition, of a compound of the formula R—O—X in which the sum of the carbon atoms plus oxygen atoms is 5 to 31, X is from the group consisting of hydrogen and alkali metal and R contains no element other than hydrogen, carbon and oxygen and is selected from the group consisting of: (*a*) unsubstituted, saturated and unsaturated, acyclic and alicyclic, aliphatic radicals; (*b*) substituted, saturated and unsaturated acyclic and alicyclic, aliphatic radicals in which each substituent is an alkoxy group having 1 to 3 carbons and the total number of such substituents is 1 to 3; (*c*) unsubstituted aromatic radicals of the benzene and naphthalene series; (*d*) aromatic radicals of the benzene and naphthalene series having but one substituent group which is an alkoxy group of 1 to 3 carbons; and (*e*) aromatic radicals of the benzene and naphthalene series having 1 to 2 substituent groups each of which is an alkyl group of 1 to 18 carbons.

13. A fuel for compression-ignition engines of the diesel type consisting essentially of a hydrocarbon fuel and containing 0.001 to 0.5% by weight of finely divided alkali metal having a particle size not exceeding about 125 microns in diameter dispersed therein and 0.05 to 5% by weight, based on the weight of said metal, of a compound of the formula R—O—X as defined in claim 1.

2,642,345

ALKALI METAL DISPERSIONS AND THEIR USE AS DIESEL FUEL ADDITIVES

Harris W. Bradley and Herbert K. Livingston, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 15, 1950, Serial No. 174,128
10 Claims. (Cl. 44—51)

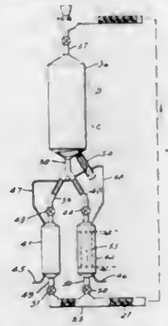
1. A composition consisting essentially of a dispersion of an alkali metal in an inert hydrocarbon liquid and containing an ethylene polymer having a straight carbon chain of a length corresponding to a molecular weight of at least 588 in an amount in excess of the solubility of said polymer in said liquid at a temperature lower than about 40° C., said composition containing 0.001 to 65% by weight dispersd alkali metal as particles of a size not exceeding 100 microns in diameter, the weight ratio of said polymer to said metal in said composition being within the range 1:25 to 10:1, and the weight ratio of said polymer to said hydrocarbon liquid being not in excess of 1:1.

2,642,346

PROCESS AND APPARATUS FOR EXOTHERMIC REACTIONS

Percival C. Keith, Peapack, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application September 28, 1946, Serial No. 700,019
6 Claims. (Cl. 48—196)



1. In the generation of a synthesis gas composed essentially of hydrogen and carbon monoxide by the high temperature reaction of reactants comprising a gasiform hydrocarbon and oxygen, continuously transporting a stream of solid heat carrier bodies through a high temperature gas generation zone where said bodies are raised to a high temperature, the stream of hot heat carrier bodies from the generation zone is thereafter divided into a plurality of separate streams, said separate streams of heat carrier bodies are conducted through separate preheating zones, the separate streams of heat carrier bodies from the preheating zones are rejoined and returned to the inlet of the gas generation zone, continuously feeding each said reactant separately to each of said preheating zones, passing each reactant countercurrently in contact with the hot stream of heat carrier bodies in the respective preheating zone to effect a separate preheat thereof, intermingling the preheated reactants from the individual preheating zones, effecting reaction of the intermingled reactants in said generation zone to form a reaction product composed essentially of hydrogen and carbon monoxide and liberate substantial quantities of heat in contact with the heat carrier bodies therein, and withdrawing the desired product gas from the gas generation zone.

3. In an apparatus for conducting a high temperature exothermic reaction of gasiform reactants, a vertically extending vessel adapted to receive a moving bed of solid particle heat carrier bodies, a conveyor operatively connected to continuously convey solid heat carrier bodies from the bottom of said vessel to the top thereof, the interior of said vessel forming an internal chamber having an upper section and a lower section, the lower section of said chamber being divided by an upstanding partition member separating said lower section into vertically extending compartments merging at their upper extremities with the upper section of the chamber, means for introducing a separate stream of gaseous reactant into the lower portion of each of said compartments, and means for withdrawing desired product gas at the upper portion of said chamber.

2,642,347

PRODUCTION OF SODIUM CARBIDE AND ACETYLENE

Harvey N. Gilbert, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 24, 1950, Serial No. 146,163
10 Claims. (Cl. 48—216)

1. A process which comprises reacting sodium carbonate with carbon at a temperature of from 1050° C. to about 1200° C. and contacting the resulting gaseous mixture of carbon monoxide and sodium vapor with a mass of steel bodies, each having a mass equal to that of a steel sphere of about 0.25 to 2 inches in diameter, said bodies being maintained at a temperature of 625 to 780° C.

8. A solid heat conducting body coated with an adherent layer of a hard, dense, intimate mixture of sodium carbide and sodium carbonate containing from about 20% to 39.76% by weight of sodium carbide.

2,642,348

BUFFING COMPOSITION FOR METALS AND METHOD OF MAKING SAME

Hugh A. Stier, Fairfield, Conn., assignor to E. E. Seeley Company, Incorporated, Bridgeport, Conn., a corporation of Connecticut

No Drawing. Application March 19, 1951, Serial No. 216,453
5 Claims. (Cl. 51—295)

1. The method of making a metal-polishing composition, which consists essentially of heating from about 15 to 35 parts, by weight, of a mixture of tri-glycerides belonging to the group consisting of palmitin, stearin, olein and myristin containing from about 3% to 10%, by weight of such mixture, of free fatty acids, with about 65 to 85 parts, by weight, of finely powdered Vienna lime to a temperature above the melting point of the tri-glycerides while thoroughly agitating the mass, then delivering the mixture into molds and immediately chilling the same therein sufficiently to solidify the tri-glyceride content thereof, removing the resultant cast product from the molds and exposing the same to a moist atmosphere until a moisture-impervious skin-coat of an insoluble soap of a thickness of but a small fraction of an inch but not less than about 1/64 of an inch has formed in situ on such cast product.

2,642,349

WATERPROOF SANDPAPER AND BACKING THEREFOR

Carl W. Foss and Halsey W. Buell, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

No Drawing. Application February 4, 1950, Serial No. 142,524
16 Claims. (Cl. 51—295)

10. A paper backing adapted for the manufacture of waterproof sandpaper comprising a

waterleaf sheet containing cellulose fibers, a wet-strength agent, and about 5–12% by weight based on the weight of the cellulose fibers of a varnish having substantially the physical and chemical properties of a product obtained by reacting about 7–21 parts of maleic anhydride with about 90–70 parts of castor oil for about ½ hour at a temperature of about 425–475° F. and then adding about 4.3–13 parts of glycerine and continuing heating for a total time of about 2 hours, the proportions of glycerine, castor oil and maleic anhydride being such as to provide in the finished product a theoretical glyceryl maleate in the proportion of about 10–30% and castor oil in the proportion of about 90–70% and the total of the theoretical glyceryl maleate and castor oil always being 100%.

11. An article as claimed in claim 10 in which the paper backing also has a solidified coating of both a presize and a back-size varnish, the back-size varnish being an oleo-resinous varnish sufficiently high in resin content and present in such an amount as to have little effect on the rate of water absorption of the treated paper.

12. Waterproof sandpaper comprising a paper backing as claimed in claim 11 and having a layer of abrasive grains attached to the presize side of the backing by a heat-hardened waterproof bond.

2,642,350

METHOD OF RECLAIMING SINGLE BASE SMOKELESS POWDER

Dwight A. Alderson, East Alton, Ralph Vincent Wakefield, Roxana, and Emerald P. Reichardt, Wood River, Ill., assignors to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

No Drawing. Application August 9, 1950, Serial No. 178,558

4 Claims. (Cl. 52—20)

1. The method of reclaiming single base smokeless powder containing benzol-soluble modifiers which consists in dispersing the powder in particulate form in a mixture composed essentially of benzol and water, agitating the mixture at an elevated temperature until a substantial portion of the modifier content is dissolved, removing the benzol-water mixture from the powder, adding water to the powder and heating until the residual benzol is removed from the powder and thereafter cooling the mixture.

2,642,351

CONTROL OF AQUATIC PLANTS

Arthur W. Swezey, Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 15, 1949, Serial No. 121,643

4 Claims. (Cl. 71—2.3)

1. A method for controlling aquatic plants which includes the step of introducing into the water adjacent to the submersed portions of the plants a water-dispersible concentrate comprising as a toxic ingredient the delta isomer of 1,2,3,4,5,6-hexachlorocyclohexane.

2,642,352

CONTROL OF AQUATIC WEEDS

Arthur W. Swezey, Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 15, 1949, Serial No. 121,644

4 Claims. (Cl. 71—2.3)

1. A method for controlling aquatic plants which includes the step of introducing into the water adjacent to the submersed portions of the plants a water-dispersible concentrate comprising as a toxic ingredient 1,1,2,3,4,5,6-heptachlorocyclohexane.

2,642,353

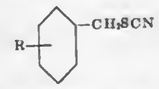
ORGANIC THIOCYANATE HERBICIDES

David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 25, 1951, Serial No. 243,753

2 Claims. (Cl. 71—2.3)

1. The method of destroying undesired plants which comprises applying to said plants a toxic quantity of a herbicidal composition comprising an inert carrier and as the essential active ingredient an organic thiocyanate having the formula



in which R is an alkyl radical of from 3 to 9 carbon atoms.

2,642,354

METHOD AND COMPOSITION FOR THE CONTROL OF UNDESIRED VEGETATION

Keith C. Barrons, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 10, 1951, Serial No. 245,978

6 Claims. (Cl. 71—2.7)

1. A method for the control of undesired plant growth which comprises contacting plants and plant parts with a compound selected from the group consisting of α,α-dichloropropionic acid and its salts, such compound being employed at a dosage exerting a phytotoxic action against the plant growth concerned.

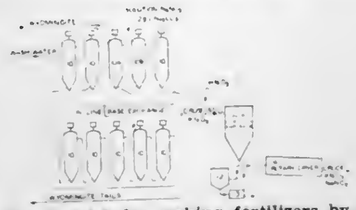
2,642,355

PRODUCTION OF CONCENTRATED FERTILIZER BY BASE EXCHANGE

Robert D. Pike, Greenwich, Conn.

Application August 29, 1950, Serial No. 182,106

11 Claims. (Cl. 71—34)



1. The process for making fertilizers by base exchange between the potassium of Wyomingite and the sodium of a solution of a sodium salt of a plant food acid of the group consisting of sodium nitrate and sodium phosphate, whereby a potassium salt of the same acid is formed, which comprises flowing said solution progressively upwardly through substantially fixed beds of fragmented Wyomingite of increased potassium content positioned in a series of pressure retaining vessels maintained at elevated pressures to effect base exchange therein until a finished solution is obtained containing a potassium salt and a sodium salt of the plant food acid in which the potassium content exceeds the sodium content by at least 5 to 1, progressively discarding the spent Wyomingite residue from the vessel containing Wyomingite with the least potassium content, and running the finished liquor to dryness to produce a fertilizer.

2,642,356

LOW-TEMPERATURE REDUCTION OF NICKEL CHLORIDE

Edward A. Beidler, Columbus, Ohio, assignor, by mesne assignments, to Crowley-Republic Steel Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application May 23, 1950, Serial No. 163,791

4 Claims. (Cl. 75—0.5)

1. The process of initiating the reduction of solid nickel chloride ($NiCl_2$) with hydrogen by a dry gas-to-solid reaction to form metallic nickel in a temperature range in which hydrogen and $NiCl_2$ will not commence to react together to any substantial extent in the absence of a reaction-initiating catalyst, comprising the steps of contacting dry solid $NiCl_2$, which is substantially free of metallic nickel, with a gas containing hydrogen as its essential active reducing ingredient, while maintaining said $NiCl_2$ in the temperature range of about 475° F. to about 650° F., and causing the reaction to start by providing in contact with the $NiCl_2$ at least about 0.1% (by weight based upon the $NiCl_2$) of metallic nickel as a reaction-initiating catalyst.

2,642,357

LOW-TEMPERATURE REDUCTION OF COBALT CHLORIDE

Edward A. Beidler, Columbus, Ohio, assignor, by mesne assignments, to Crowley-Republic Steel Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application May 23, 1950, Serial No. 163,792

4 Claims. (Cl. 75—0.5)

1. The process of initiating the reduction of solid cobalt chloride ($CoCl_2$) with hydrogen by a dry gas-to-solid reaction to form metallic cobalt in a temperature range in which hydrogen and $CoCl_2$ will not commence to react together to any substantial extent in the absence of a reaction-initiating catalyst, comprising the steps of contacting dry solid $CoCl_2$, which is substantially free of metallic cobalt, with a gas containing hydrogen as its essential active reducing ingredient, while maintaining said $CoCl_2$ in the temperature range of about 510° F. to about 690° F., and causing the reaction to start by providing in contact with the $CoCl_2$ at least about 0.1% (by weight based upon the $CoCl_2$) of metallic cobalt as a reaction-initiating catalyst.

2,642,358

CERIUM BASE ALLOY

Henry Kent, New York, N. Y.; Paula Kent, executrix of said Henry Kent, deceased

No Drawing. Application September 20, 1949, Serial No. 116,843

2 Claims. (Cl. 75—152)

1. A master alloy useful in the preparation of magnesium-base alloys, consisting essentially of from 77% to 89% cerium, from 8% to 20% manganese, from 2% to 5% nickel and from .2% to .5% tungsten.

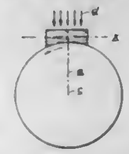
2,642,359

PROCESS OF MAKING FIBERBOARD FROM GROUNDWOOD

Wylmer L. Scott, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application August 18, 1947, Serial No. 769,295

7 Claims. (Cl. 92—1)



1. In a process of making fiberboard consisting essentially of a mat of fibers of wood, the steps which comprise producing in a single grinding operation fibers of such coarseness that from 7% to 20% will be retained on a 10 mesh screen and the ratio of total short fiber to total long fiber greater than 65 mesh in size will be between 2 to 1 and 1 to 3 by subjecting pieces of wood to longitudinal grinding by pressing the wood against the curved peripheral grinding surface of a rotating grinding stone the diameter of which is greater than the length of the pieces of wood and the average grit of which is at least as coarse as 27, with the direction of the grain of the wood lying substantially normal to the axis of rotation of the grinding stone, and with a line drawn perpendicularly to the longitudinal axis of the wood and passing through the axis of the grinding stone substantially bisecting the length of the pieces of wood and lying substantially parallel to the direction of pressure application, said relationship being maintained substantially throughout the grinding operation, removing any gross particles such as knots but retaining substantially all of the ground material, and forming a fiberboard directly from an aqueous slurry the fiber fraction of which consists substantially wholly of the fibers so formed.

2,642,360

MANUFACTURE OF WET STRENGTH PAPER

Herbert William Mackinney, East Orange, and Sidney Joseph Schultz, Cranford, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application December 27, 1946, Serial No. 718,894

5 Claims. (Cl. 92—21)

5. Method of sizing cellulosic paper to increase its wet-strength which comprises mixing an aqueous suspension of cellulosic paper fibers having a negative electric charge with a dilute aqueous alkaline solution of a resin which is the reaction product of: (1) a water-soluble heat-convertible condensate of one mol urea and between one and four mols formaldehyde and, (2) a polyhydric phenol having at least two hydroxyl groups in a meta position to each other, each hydroxyl group having an individual hydrogen atom ortho thereto on the phenolic ring in amount between 2 and 20% by weight of said condensate and said resin being only partly soluble in water, but soluble in aqueous alkaline solutions, acidifying the aqueous mixture of paper fibers and said resin to form a colloidal dispersion of the resin wherein the colloidal resin par-

ticles exhibit a positive electric charge causing rapid precipitation of the resin particles on to the negatively charged paper fibers, forming a sheet from the paper fibers after the resin particles have precipitated thereon and then drying the sheet at an elevated temperature.

2,642,361

PHOTOGRAPHIC SILVER HALIDE EMULSIONS SENSITIZED WITH WATER-INSOLUBLE GOLD COMPOUNDS

Rudolph E. Damschroder and Henry C. Yutzy, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 20, 1949, Serial No. 105,892
22 Claims. (Cl. 95—7)

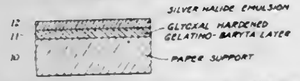
1. A process for sensitizing a photographic silver halide emulsion comprising adding to the emulsion, before or during final digestion, a water-insoluble gold compound which has a solubility in water equivalent to from 0.03 mg. to 1.0 mg. of gold per 100 ml. of water at 25° C., and digesting the emulsion in the presence of the water-insoluble gold compound.

2,642,362

LIGHT-SENSITIVE BARYTA-COATED PHOTOGRAPHIC PAPER

George R. Clark and Lloyd F. Miller, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application March 18, 1949, Serial No. 82,118
1 Claim. (Cl. 95—8)



A light-sensitive photographic element comprising a paper support having on one surface thereof a gelatino-baryta layer containing glyoxal uniformly dispersed therein as a gelatin hardening agent, and over said layer a silver halide emulsion layer.

2,642,363

PROCESS FOR CANNING WHOLE FRESH MILK

John C. Moeri, New Orleans, La., assignor to Farm Fresh Milk Corporation, Miami, Fla., a corporation of Florida

No Drawing. Application January 23, 1952, Serial No. 267,909
5 Claims. (Cl. 99—185)

1. The process of canning whole fresh milk which comprises pasteurizing the milk at approximately 163° F., homogenizing the milk at 2800 p. s. i. and at approximately pasteurization temperature, delivering the milk to sterilized cans at pasteurization temperature and simultaneously applying heat to maintain the milk at said pasteurizing temperature and create a vacuum in said cans and sealing the same, and directly thereafter subjecting the cans containing the milk to a progressively increasing temperature to achieve a maximum temperature of the milk of 240° F. within a period of 10 minutes, subsequently holding the milk at a maximum of 240° F. for approximately 14 minutes and then reducing said temperature to approximately 100° F. within 10 minutes and subsequently further reducing the temperature to approximately 50° F. within an additional 15 minutes.

2,642,364

MAT FINISH ENAMELS FOR ALUMINUM

William R. Beatty, Highlands, N. J., and Oliver A. Short, Staten Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 23, 1950, Serial No. 163,796
8 Claims. (Cl. 106—49)

1. A vitreous enamel composition suitable for the coating of aluminum and aluminum-rich alloys to provide a mat enamel finish thereon which comprises an enamel flux and 12 to 50%, based on the weight of said flux, of a refractory material added as a mill-addition agent, said flux comprising:

	Mole per cent
PbO	10 to 18
SiO_2	38 to 65
Li_2O	5 to 12
Na_2O	0 to 22
K_2O	0 to 20
TiO_2	0 to 20
Sb_2O_3	0 to 5

the total alkali metal oxide content

$$(Li_2O+Na_2O+K_2O)$$

of said flux being between 25 and 36 mole per cent, and the ratio of the sum of said silica content and twice the said titanium oxide content of the flux to said total alkali metal oxide content being between 1.8 and 3.0, all of said oxides being melted into said flux composition.

2,642,365

METHOD OF FORMING A SMOOTH SURFACE ON A SUBSTRATUM

Johannes de Gier and Jan Peper, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 24, 1947, Serial No. 763,243
In the Netherlands July 27, 1946
4 Claims. (Cl. 117—33.5)



1. A method for applying a smooth thin layer of organic solid coating material on to a layer of luminescent material having interstices therein, said layer of luminescent material being supported by the inner end wall of a cathode-ray tube envelope which comprises the step of filling the interstices in the luminescent material with a heat volatilizable liquid having a boiling point below the destructive temperature of said organic material in an amount just sufficient to fill the interstices to the highest surface level of the luminescent material whereby the level of the liquid is flush with the luminescent material thereby forming a smooth level surface for the application of a surface layer of a coating material insoluble in the liquid thereover, said liquid being inert to said luminescent material and to said surface layer, applying a solution of an organic coating material in a solvent immiscible with said liquid in said interstices over the luminescent material, evaporating the solvent to form a smooth thin layer of the coating material in contact with only the highest surface portions of the luminescent material, and thereafter volatilizing the liquid to remove the same from the interstices of the luminescent material.

2,642,366

METHOD OF COATING SHEET MATERIAL WITH WAX

George G. Rumberger, Neenah, Wis., assignor to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin

No Drawing. Application March 23, 1951, Serial No. 217,299
17 Claims. (Cl. 117—103)

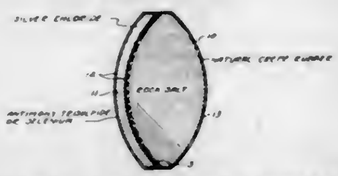
1. The process of forming on a flexible cellulosic sheet material a substantially smooth, uniform and even congealed coating substantially free of irregular flow lines which comprises applying uniformly to the sheet material a molten composition consisting essentially of a molten hydrocarbon wax having a surface tension of about 25 to about 29 dynes per centimeter at 180° F. and a viscosity not exceeding 100 centistokes at the temperature of application, and passing said coated sheet at a high speed through an aqueous cooling bath maintained at a temperature substantially below the melting point of the said molten composition, said cooling bath containing a wetting agent, said bath having a surface tension exceeding the surface tension of the said molten coating composition by about 3 to about 20 dynes per centimeter at the moment of contact of the two.

2,642,367

METHOD OF PROTECTING LENSES

August Herman Pfund, Baltimore, Md., assignor to the United States of America as represented by the Secretary of War

Original application January 9, 1947, Serial No. 721,078. Divided and this application March 27, 1950, Serial No. 152,204
3 Claims. (Cl. 117—106)



1. The method of protecting the surface of a lens which is made from a salt of silver normally decomposible at the surface thereof by ultraviolet light, which comprises vaporizing in a high vacuum a protective coating chemical selected from the group consisting of antimony trisulfide and amorphous elemental selenium, condensing the vapors thereof upon the surfaces of said lens and continuing the process until the lens appears deep orange to red by transmitted light, whereby said lens is light-proofed against ultraviolet rays.

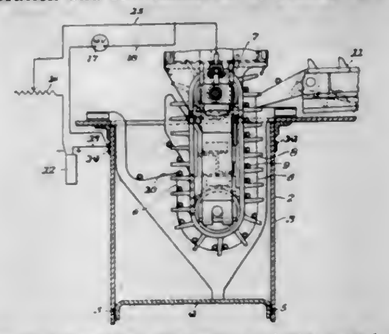
2,642,368

COATING METAL ARTICLES BY DIPPING IN BATH OF DISSIMILAR MOLTEN METAL

De Yarman Wallace, Canfield, and Leland R. Mansell, Poland, Ohio

Application January 19, 1950, Serial No. 139,524
6 Claims. (Cl. 117—114)

1. In the art of applying to metal articles a coating of a dissimilar metal by dipping the articles into a bath of the dissimilar metal in molten form, which bath is maintained in a receptacle of metal different from the metal of the bath, in which bath a direct current of electricity tends to flow between the metal of the bath and the metal of the receptacle as a natural phenomenon tending to result in formation of dross consisting mainly of an alloy of the two metals and cause deterioration of the receptacle and contamination of the bath, the step of counteracting such deterioration and contamination by setting up between the metal of the bath and the metal of the receptacle a counter potential of direct current electricity inhibiting the tendency of said direct current of electricity to flow between the metal of the bath and the metal of the receptacle.

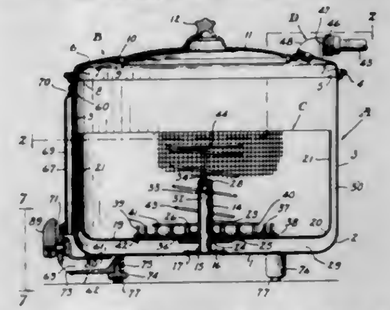


2,642,369

DISHWASHING MACHINE AND METHOD

Robert H. Hunter, Gates Mills, and Elmer J. Kasper, Cleveland, Ohio; said Kasper assignor to said Hunter

Application October 2, 1947, Serial No. 777,388
14 Claims. (Cl. 134—25)



1. In a dishwasher having a tub, a basket and means supporting the same for rotation in the tub, a cover for the tub, a nozzle mounted eccentrically on the cover, and means for conducting high pressure liquid to the nozzle, the nozzle having a plurality of diverging orifices for directing a number of high velocity streams of liquid into the tub, some of said streams being directed against the basket to rotate the latter and at least one of the streams opposing such rotation.

2. In the process of washing dishes and like articles in a rotary basket by water jet action the improvement which comprises in combination directing a plurality of separate fine streams of high velocity water downwardly from a locus wholly above the basket and the articles directly against articles in the basket while the latter is rotating, and progressively immersing the rotating basket and the articles contained therein a liquid cleansing solution while the water streams are so directed.

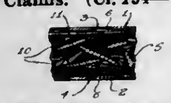
2,642,370
METHOD OF LAMINATING MATERIAL AND RESULTING PRODUCT
George B. Parsons, Baldwin, and Daniel Depew, Wyandanch, N. Y., assignors to Fairchild Engine and Airplane Corporation, New York, N. Y., a corporation of Maryland
Application October 18, 1949, Serial No. 122,146
8 Claims. (Cl. 154—128)



1. The method of forming a multiple-ply article, which comprises fusing a flexible sheet of polyethylene to one surface of a flexible sheet of relatively closely woven fabric of dissimilar material under heat and pressure to soften the polyethylene and cause it to penetrate into the meshes of the fabric and thus unite said sheets, said polyethylene penetrating only partially through said fabric to leave the opposite surface thereof exposed, and then adhering the said exposed fabric surface of the resulting two-ply fabric-polyethylene unit to the surface of another ply of fabric with an interposed adhesive.

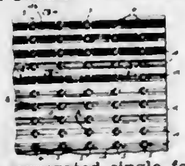
8. As a new article of manufacture, a multiple-ply article comprising a substantially rigid panel formed of a plurality of layers of glass fabric adhesively bonded together in superimposed relation, and a flexible two-ply laminous unit comprising a layer of polyethylene of molecular weight between about 5,000 and about 100,000 mechanically secured coextensively to only one surface of a single sheet of glass fabric by intrusions of said polyethylene extending into and only partially through the meshes of said single glass fabric sheet, whereby the opposite surface of said sheet is free of said polyethylene, said polyethylene-free opposite glass fabric surface of said two-ply laminous unit being adhesively bonded to one glass fabric surface of said panel with the polyethylene layer of said two-ply laminous unit affording an outer surface of the complete multiple-ply article.

2,642,371
COMPOSITE WOODEN BOARD
Fred Fahrni, Zurich, Switzerland
Application January 31, 1950, Serial No. 141,409
In Germany April 25, 1942
22 Claims. (Cl. 154—45.9)



1. A composite wooden board comprising in comprising in combination a core layer of randomly arranged wood particles providing air spaces between themselves; a binder substance firmly connecting said randomly arranged wood particles without filling said air spaces so that said randomly arranged wood particles firmly adhere to one another and provide a porous core having good heat insulating properties; an outer layer arranged on one face of said porous core and having a thickness which is small as compared to the thickness of said core, said outer layer consisting of superposed unoriented flat wood shavings; and an adhesive substance connecting said flat wood shavings directly to one another and to said porous core whereby said flat wood shavings firmly adhere to one another and to said porous core so as to provide on one side of said porous core a firmly adhering surface layer being substantially impervious to water and having a high tensile strength.

2,642,372
FLEXIBLE CORRUGATED SHEET MATERIAL AND METHOD OF FABRICATING SAME
Charles Yardley Chittick, Waban, Mass.
Application February 2, 1950, Serial No. 141,903
11 Claims. (Cl. 154—55)



6. Flexible corrugated single faced sheet material having a flexible backing ply and a corrugated ply adhesively secured thereto, the raised unsecured portions of the flutes of the corrugated ply being cut in at least some areas of the sheet along a series of substantially parallel lines intersecting the corrugations at right angles with negligible diminution in volume of the cut portions of said flutes, the top and side walls of the said cut portions of the flutes terminating at inwardly folded edges and defining voids in the said flutes and forming in each flute a plurality of truncated sections with strengthened end edges, each said truncated sections being secured to said backing ply along two parallel sides only, with the secured sides being continuous with the secured sides of the next adjacent truncated section.

2,642,373
2-HYDROXYETHYL 2-PHENYLETHYL SULFIDE AS A FUNGICIDE
Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 25, 1950, Serial No. 151,994
2 Claims. (Cl. 167—30)

1. The method of protecting organic material susceptible to attack by fungi which comprises applying to said organic material a fungicidal composition comprising 2-hydroxyethyl 2-phenylethyl sulfide.

2,642,374
PROCESS OF PREPARING CRYSTALLINE ACTIVE PRINCIPLE FROM ALLIUM SPECIES
Ewald Seebeck, Basel, Switzerland, assignor to Sandoz Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application December 29, 1947, Serial No. 794,452. In Switzerland January 2, 1947
2 Claims. (Cl. 167—55)

1. A process for the isolation of the crystalline, odorless principle of the bulbs of the allium genus, comprising the steps of grinding in frozen state bulbs of the allium genus, extracting the ground material with an aqueous low molecular alcohol selected from the group consisting of methyl and ethyl alcohols at a temperature of 40–50° C., separating the alcohol from the extract by evaporation, mixing the aqueous extract thus obtained and which contains the odorless principle of the said bulbs of the allium genus with a phenol selected from the group consisting of phenol and cresol, separating the phenol from the aqueous layer by mixing it with ether and separating the ether-phenol solution, concentrating the remaining aqueous solution in vacuo, adding thereto a low molecular alcohol selected from the group consisting of methyl and ethyl alcohols, and crystallizing the odorless principle from this solution.

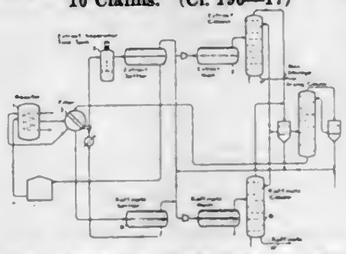
2,642,375
HEMOSTATIC COMPOSITIONS
John Henderson, New Market, and Alfred Bloch and Herbert L. Davis, Highland Park, N. J., assignors to Ethicon Suture Laboratories Incorporated, a corporation of New Jersey
No Drawing. Application August 21, 1951, Serial No. 242,992
3 Claims. (Cl. 167—65)

1. A hemostatic composition for use in the control of tissue and osseous hemorrhage comprising; as a water-soluble innocuous base, polymerized ethylene glycol having an average molecular weight of approximately 1500; and, as a hemostatic agent, finely divided oxidized cellulose intimately admixed therewith.

2,642,376
PROTECTED ENZYME PREPARATION
Rowland A. Gale, Yonkers, N. Y., and John Thomas Haigh, Minneapolis, Minn., assignors to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware
No Drawing. Application August 12, 1949, Serial No. 110,037
1 Claim. (Cl. 195—63)

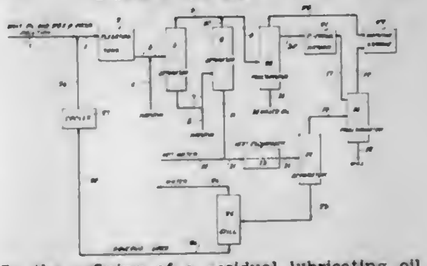
An article of manufacture which comprises an amylolytic enzyme preparation adapted for use in the enzymic conversion of starch and water suspensions, said preparation being carried in an oily vehicle selected from the group consisting of sesame oil, deodorized and refined kerosene, coal oil, pine oil and soya oil to protect the enzyme preparation from contact with the water suspension at a temperature of approximately 10 degrees below the gelatinization temperature of the starch, said oily vehicle containing fatty esters of hexitol anhydrides having polyoxyethylene groupings and lecithin as a dispersing agent which is capable of dispersing the enzyme preparation at said predetermined temperature, said preparation and oily vehicle being enveloped by a film of material selected from the class consisting of gelatin, cellulose, and polyvinyl alcohol, said film being water soluble at a temperature approximately 10° below the gelatinization temperature of the starch and substantially below the temperature at which the dispersing agent is capable of releasing the enzyme preparation from the oily vehicle.

2,642,377
DEWAXING PROCESS
Lloyd C. Fetterly, Seattle, Wash., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 27, 1947, Serial No. 782,450
10 Claims. (Cl. 196—17)



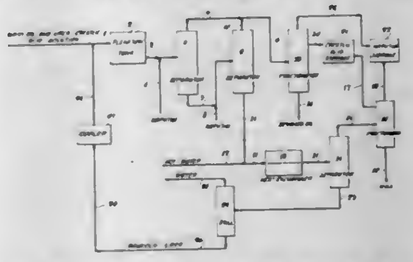
5. The process for dewaxing lubricating oils which comprises contacting urea with a petroleum oil fraction containing minor amounts of both microcrystalline and normal paraffine waxes, at a temperature between 25 and 60° C., whereby crystalline molecular complexes are formed between urea and substantially all the waxy components present in said oil, and separating said complexes from the dewaxed lubricating oil.

2,642,378
SEPARATION OF WAX FROM RESIDUAL LUBRICATING OIL
James I. Barnes, Mickleton, and Arnold O. Pukkila, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application September 13, 1949, Serial No. 115,366
1 Claim. (Cl. 196—17)



In the refining of a residual lubricating oil stock containing hydrocarbon wax wherein said stock is contacted in solution with urea, whereby said hydrocarbon wax preferentially forms a crystalline complex with said urea, and wherein said crystalline complex and the remaining oil stock are separated, the improvement which comprises: so contacting said oil stock and urea in solution in a cresol consisting of p-cresol, at a temperature of about 125° F.

2,642,379
SEPARATION OF WAX AND ASPHALT FROM HYDROCARBON OIL
Franklin L. Dennis, Clayton, and William H. King and Harold C. Myers, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application September 13, 1949, Serial No. 115,444
3 Claims. (Cl. 196—17)



1. In the refining of a residual lubricating oil stock containing hydrocarbon wax wherein said stock is contacted in solution with urea, whereby said hydrocarbon wax preferentially forms a crystalline complex with urea, and wherein said complex and the remaining oil stock are separated, the improvement which comprises: so contacting said oil stock and urea in solution in a mixture of cresylic acids, at a temperature of about 125° F.

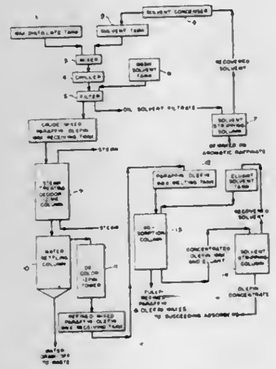
2,642,380

RECOVERY OF WAXES FROM SHALE OIL

Joseph W. Horne and Peter R. Tisot, Laramie, Wyo., assignors to the United States of America as represented by the Secretary of the Interior

Application July 5, 1951, Serial No. 235,354
8 Claims. (Cl. 196—18)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method for the recovery of paraffinic and olefinic waxes of relatively high melting point



from an oil produced by the destructive distillation of oil shale comprising the steps of solvent extracting a distillation fraction of said shale oil boiling between 675° and 950° F. to recover the waxy material contained therein and then separating the olefinic content of said waxy material from the paraffinic portion thereof to produce one waxy material substantially paraffinic in nature, and another waxy material containing a substantial degree of olefinic unsaturation.

7. A hydrocarbon wax containing at least 20% of olefinic hydrocarbons and having a melting point above 90° F. obtained by solvent extracting a distillation fraction boiling between 675° and 950° F. of a crude oil obtained by the destructive distillation of oil shale to recover the waxy material therein, and then separating at least a portion of the paraffinc content of said waxy material from the olefinic portion thereof.

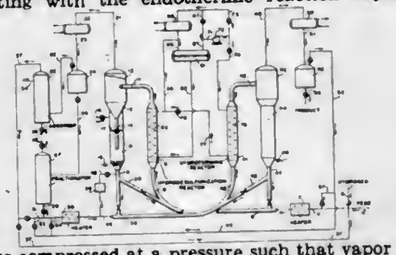
2,642,381

HEAT TRANSFER BETWEEN EXOTHERMIC AND ENDOTHERMIC REACTIONS

Norman L. Dickinson, Basking Ridge, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application August 27, 1949, Serial No. 112,777
14 Claims. (Cl. 196—27)

1. In an integrated process for effecting chemical reactions involving the reaction steps comprising an exothermic reaction and an endothermic reaction, such as hydrodesulfurization and hydroforming, selective oxidation of sulfur and hydroforming, synthesis gas making and synthesis, hydrogenation and hydroforming, synthesis and catalytic cracking of synthesis product, synthesis and reforming of synthesis product, and chlorination of benzene and hydrolysis of cholorobenzene in which reactant is passed successively through the reaction steps and in which the exothermic reaction step is effected at a temperature not higher than the endothermic reaction step and the heat released by the exothermic reaction step is not equivalent to the heat required by the endothermic reaction step, the method for supplying the required heat for the endothermic reaction which comprises indirectly contacting with the exothermic reaction a vaporizable heat exchange liquid under a pressure such that heat exchange liquid is vaporized at a temperature suitably related to the temperature of reaction, compressing vapor thus produced by indirect heat exchange with said exothermic reaction, indirectly contacting with the endothermic reaction vapor



thus compressed at a pressure such that vapor is condensed at a temperature suitably related to the temperature of reaction, returning condensate produced by heat exchange with the endothermic reaction at a lower pressure for heat exchange with the exothermic reaction, removing a portion of the heat exchange medium from the above heat exchange cycle, regulating the heat content of this portion of the heat exchange medium removed from the heat exchange cycle to balance the heat requirement of the system, and thereafter returning this latter portion of the heat exchange medium to the heat exchange cycle.

2,642,382

REFINING HYDROCARBON OILS

George R. Bond, Jr., Paulsboro, N. J., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 24, 1950, Serial No. 197,518
12 Claims. (Cl. 196—44)

11. The method of improving liquid hydrocarbon oils which comprises treating such an oil in liquid phase with a minor proportion of an aqueous solution comprising a concentrated aqueous ferric chloride solution extended with a concentrated solution of a water soluble chloride from the group consisting of magnesium, calcium and sodium chloride, to thereby form a sludge containing impurities extracted from the oil, and separating the sludge from the oil raffinate.

2,642,383

CATALYTIC REFORMING OF HYDROCARBONS

Charles V. Berger, Western Springs, and Vladimir Haensel, Hinsdale, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 20, 1949, Serial No. 94,498
7 Claims. (Cl. 196—50)

1. In a reforming process wherein a normally liquid hydrocarbon fraction containing paraffins and naphthenes boiling below about 425° F. is passed with hydrogen and at reforming conditions through a catalyst comprising platinum, alumina and combined halogen to effect hydrocracking of paraffins and dehydrogenation of naphthenes, and wherein the extent of said hydrocracking tends to increase in the later stages of the processing period, the method of maintaining the extent of hydrocracking substantially constant over said processing period which comprises introducing H_2O to the reforming zone during the later stages, at least, of the processing period and regulating its partial pressure to suppress said increased tendency toward hydrocracking.

2,642,384

PROCESS FOR REFORMING OF HYDROCARBONS BOILING WITHIN THE GASOLINE RANGE UTILIZING A PLATINUM-ALUMINA-HALIDE CATALYST

Maurice W. Cox, Berwyn, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 22, 1949, Serial No. 106,335
7 Claims. (Cl. 196—50)

2. In the reforming of a hydrocarbon charge stock containing paraffins and naphthenes and boiling within the gasoline range by contacting said stock and hydrogen in a reforming zone with a catalyst comprising platinum, alumina and combined halogen at paraffin hydrocracking and naphthene dehydrogenating conditions including a temperature of from about 750° to about 1000° F. and a pressure of from about 50 to about 1200 pounds per square inch, wherein the extent of the hydrocracking reaction tends to decrease with continued use of the catalyst, the improvement which comprises introducing to said zone, during the reforming of said stock therein and while said catalyst still retains substantial naphthene dehydrogenating activity, a halogen compound reactable with the alumina at said conditions and reacting a sufficient amount of said compound with the alumina to maintain the hydrocracking activity of the catalyst substantially constant.

2,642,385

CATALYTIC REFORMING OF HYDROCARBONS

Charles V. Berger, Western Springs, and Vladimir Haensel, Hinsdale, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application January 27, 1950, Serial No. 140,944
7 Claims. (Cl. 196—50)

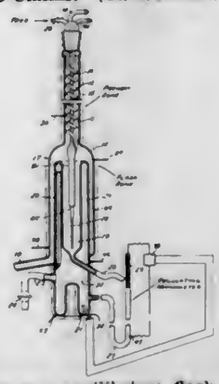
1. In a reforming process wherein a normally liquid hydrocarbon fraction containing paraffins and naphthenes boiling below about 425° F. is passed with hydrogen and at reforming conditions through a catalyst comprising a metal selected from the group consisting of platinum and palladium and a composite of silica with at least one metal oxide selected from the group consisting of alumina, zirconia, magnesia and thoria to effect hydrocracking of paraffins and dehydrogenation of naphthenes, and wherein the extent of said hydrocracking tends to increase in the later stages of the processing period, the method of maintaining the extent of hydrocracking substantially constant over said processing period which comprises introducing H_2O to the reforming zone during the later stages, at least, of the processing period and regulating its partial pressure to suppress said increased tendency toward hydrocracking.

2,642,386

LABORATORY FLASH STILL FOR HEAVY OILS

John J. Piros, Homewood, Ill., assignor, by mesne assignments, to Sinclair Research Laboratories Inc., Harvey, Ill., a corporation of Delaware

Application April 5, 1949, Serial No. 85,483
3 Claims. (Cl. 196—104)



1. A continuous equilibrium flash still for the flashing of a petroleum fraction which comprises a preheat zone and a flash zone, an enclosed mercury vapor circulating system connected to said flash zone having a mercury well and a mercury vapor chamber extending upwardly from said mercury well into said flash zone, said mercury vapor chamber being annular in form and completely dividing said flash zone into an interior central section and an exterior annular section, means for maintaining the mercury at a predetermined temperature including a make-break manometer connected to and in open communication with said mercury well at one end and open to the atmosphere at the other end, and a heating element immersed in said mercury and controlled by said make-break manometer for supplying the necessary heat to said mercury, a charge pipe extending downwardly from said preheat zone into said interior central section of said flash zone for delivering the petroleum fraction thereto for flashing, means for removing the light ends product from the flash zone, and means for removing the heavy ends product from the flash zone.

2,642,387

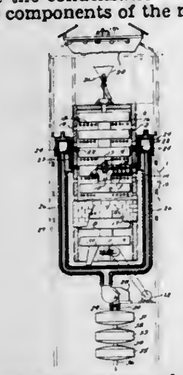
LOW-TEMPERATURE CARBONIZATION OF CARBONACEOUS MATERIAL

Michael Steinschlaeger, London, England

Application March 10, 1949, Serial No. 80,663
In Great Britain March 22, 1948
2 Claims. (Cl. 202—9)

1. A process for the low temperature carbonization of coal and other carbonaceous material including cannel, torbanite, shale, peat and lignite, comprising carbonizing the material by heating while passing through a plurality of vertically disposed chambers in succession, heating each of said chambers from below by burning fluid fuel and passing the products of combustion of the fuel while at their maximum temperature through an elongated zone and drawing into and mixing with the products of combustion while in said zone a plurality of spaced, separate small streams of air before entering between the chambers, removing gases and vapors from at least one of said chambers and maintaining the temperature of the removed mixture of gases and

vapors above the condensation and precipitation points of the components of the mixture by heat-



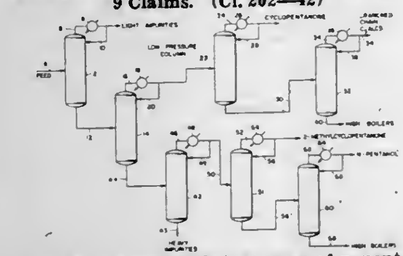
ing the off-takes by means of a heating fluid, but below the temperature at which substantial cracking occurs.

2,642,388

DISTILLATION OF AMYL ALCOHOLS FROM KETONE-CONTAINING MIXTURES

Alfred Steitz, Jr., Howard Grekel, and Theodore Q. Eliot, Tulsa, Okla., and Joe C. Weaver, Jr., Brownsville, Tex., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application December 30, 1950, Serial No. 203,717
9 Claims. (Cl. 202—42)



1. In a process for the recovery of n-pentanol, 2-methyl-1-butanol and 3-methyl-1-butanol from mixtures containing close-boiling ketones, the steps which comprise subjecting said mixture to fractional distillation, collecting a first fraction boiling from about 121° C. to about 132–134° C., collecting a second fraction boiling from about 134° C. to 138–139° C., and separately distilling said first and second fractions at temperatures and pressures not substantially in excess of about 91° C. and 200 mm. and about 90° C. and 150 mm. respectively.

2,642,389

TREATING METHOD FOR HIGH-BOILING ESTERS

Charles A. Cohen, Roselle Park, and Fred Knoth, Jr., Sayreville, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 30, 1950, Serial No. 203,796
5 Claims. (Cl. 202—56)

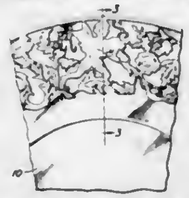
1. A process for the treatment of an organic ester formed by esterifying a carboxylic acid with an alcohol in the presence of an acidic esterification catalyst with removal of water during the esterification, which comprises contacting the ester containing the acid catalyst but substantially freed of water with a finely divided heat-activated clay having a particle size of about 20 to 325 mesh, and separating the activated clay with the acid catalyst from the ester.

2,642,390

PROCESS OF ORNAMENTATION OF ARTICLES MADE OF PLASTICS

Joseph Garofano, Hartsdale, N. Y.

Application September 11, 1950, Serial No. 184,302
4 Claims. (Cl. 204—18)



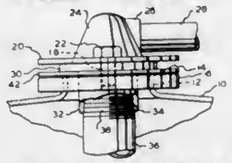
1. A process for producing a metallic ornamentation on the surface of objects made of organic resinous plastics selected from the group consisting of cellulose base resin plastics, of plastics derived from styrene and of plastics of the allyl type of polyester resins comprising coating the surface of the resinous plastic to be ornamented with a design carrying soluble adhering layer, consisting substantially of a mixture of rosin, wax and an essential oil, said layer showing the ornamental design to be applied to the surface of the objects to be ornamented in the shape of open and blocking solid portions, the former covering the portions of the surface to be ornamented which are to be covered with metal and the latter covering the portions of the surface to be ornamented to be kept free of metal deposits, spraying a suspension of finely powdered particles of metal in acetone onto the surface covered by the aforesaid soluble layer carrying the ornamental design, and applying, after evaporation of the acetone, a solvent for the soluble layer in order to remove the layer together with the metal which has been sprayed onto said layer from the surface to be decorated.

2,642,391

ANODIC ROD HOLDER

Walter C. Wellman, Middleville, Mich., assignor to White Products Company, Middleville, Mich., a corporation of Michigan

Application May 29, 1950, Serial No. 164,989
1 Claim. (Cl. 204—197)



In combination, a tank having a wall with an opening defined by an outwardly projecting neck carrying a mounting ring on the outer side of the tank, a sacrificial rod holder and liquid connector comprising a liquid conduit fitting in the form of a hollow body part having a flange imposed upon said mounting ring, said body having a relatively short internally threaded neck projecting inwardly of said flange to receive the threaded end of a sacrificial rod to be disposed in the interior of the tank with said threaded neck at the point of connection with said rod being substantially flush with the tank wall, said neck

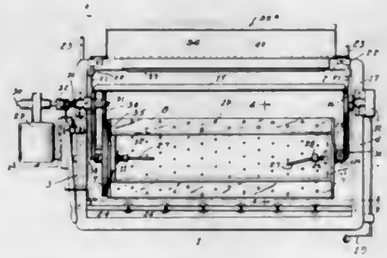
having substantial clearance with the inside of said outwardly projecting flange, said neck having radial openings above the rod receiving threaded portion and disposed opposite said outwardly projecting neck for the flow of liquid through said clearance between the interior of said body part and the tank, said body part having an exterior opening on the outward side of said flange connecting with said radial openings through the hollow interior of the said body part.

2,642,392

ELECTROPLATING APPARATUS

Carl J. Sommers, St. Louis, Mo., assignor to Sommers Bros. Mfg. Co., St. Louis, Mo., a corporation of Missouri

Application July 14, 1949, Serial No. 104,790
1 Claim. (Cl. 204—214)



In an electroplating device, a tank for an electrolytic solution, a drum for articles to be electroplated, an integral U-shaped frame mounted transversely of the tank, the outer ends of the arms of said U-shaped frame having axially aligned horizontal pintles, said drum having its ends rotatably mounted on said pintles, a pintle carried by one of said frame arms intermediate its ends, said last-named pintle being rotatably mounted in a bearing carried by one side of the tank, means cooperating with said last named pintle for pivotally rocking said frame, a drive shaft journalled on the tank opposite the last named pintle in axial alignment therewith, the other arm of said frame being rockably mounted intermediate its ends on the drive shaft in a bearing opening passing through said last named arm, whereby said drum is arcuately movable downwardly into the tank and upwardly out of the tank, and a gear carried by the drive shaft to the inner side of the last named arm, said gear meshing with a gear carried by the adjacent end of the drum.

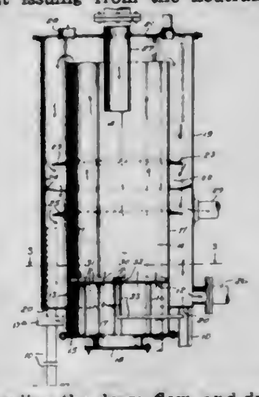
2,642,393

NEUTRALIZATION OF LIQUIDS

Harry W. Gehm, Metuchen, and Lee T. Purcell, Pompton Lakes, N. J., assignors to Limestone Products Corporation of America, Newton, N. J., a corporation of New Jersey

Application January 29, 1949, Serial No. 73,566
2 Claims. (Cl. 210—2)

2. The method of neutralizing liquid waste which method includes the steps of causing the waste liquid to flow upwardly through a bed of neutralizing material consisting of solid particles, effecting a suspension and agitation of the particles of the neutralizing materials during the passage of the liquid therethrough by introducing a fluid under pressure and in a plurality of streams at the base of the bed of the neutralizing material, effecting a down-flow of the effluent issuing from the neutralizing ma-



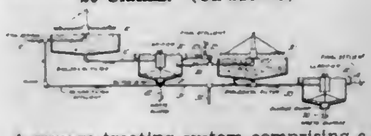
terial, cascading the down-flow, and drawing air upwardly through the cascading effluent.

2,642,394

TWO-STAGE AEROBIC BIOLOGICAL SEWAGE TREATING PROCESS AND SYSTEM

Charles H. Paulette and Johanna Gunz, Chicago, Ill., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware

Application June 18, 1948, Serial No. 33,718
20 Claims. (Cl. 210—5)



1. A sewage treating system comprising a first biological aerobic treating device, a clarifying device and a second biological aerobic treating device, said devices being joined for flow therethrough in the sequence mentioned, inlet means for sewage to be treated to said first biological aerobic treating device, an outlet conduit for unsedimented effluent leading from said second biological aerobic treating device, means including a conduit for returning to said first biological aerobic treating device unsedimented effluent from said second biological aerobic treating device, an outlet for sludge from said clarifying device, and means for withdrawing treated sewage from said system downstream of said clarifying device.

2,642,395

SILOXANE BOUNDARY LUBRICANTS

Chester C. Currie, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application February 8, 1952, Serial No. 270,771
6 Claims. (Cl. 252—37.2)

1. A composition of matter consisting essentially of (1) a liquid copolymeric siloxane having a degree of substitution of greater than 2 and less than 3 organic radicals per silicon atom, said siloxane containing halogenated aryl radicals selected from the group consisting of halogenated phenyl radicals and halogenated xenyl radicals, said radicals having substituted thereon from 1 to 7, inclusive, halogen atoms selected from the group consisting of chlorine and bromine, the re-

maining organic radicals in said siloxane selected from the group consisting of methyl and phenyl radicals, in which siloxane the halogenated aryl radicals are present in amount so that the ratio of halogen atoms to silicon atoms is from .05 to 5 and in which siloxane at least 37 per cent of the total number of organic radicals are methyl radicals and (2) from .01 to 5 per cent by weight based on (1) of a metal selected from the group consisting of copper, magnesium, and lead, said metal being present in the form of the salt of an acid selected from the group consisting of aliphatic carboxy acids having 4 to 9 carbon atoms, inclusive, and cyclohexyl derivatives of such aliphatic acids.

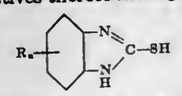
2,642,396

HYDROCARBON OIL CONTAINING A MERCAPTOBENZIMIDAZOLE

Thomas C. Roddy, Jr., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application May 1, 1952, Serial No. 285,551
15 Claims. (Cl. 252—47)

1. A mineral hydrocarbon oil normally corrosive to metal in the presence of sulfur containing a corrosion inhibiting amount within the range of 0.1 to 60 pounds per thousand barrels of oil of a corrosion inhibitor selected from the group consisting of mercaptobenzimidazole and alkyl substituted derivatives thereof having the formula



where R represents any alkyl radical containing from 1 to 30 carbon atoms, and n is a whole number from 1 to 3 and represents the number of hydrogen atoms on the benzene nucleus which have been substituted by any alkyl radical or radicals represented by R.

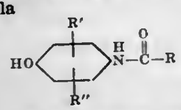
2,642,397

LUBRICATING GREASE COMPOSITIONS

Arnold J. Morway, Rahway, David W. Young, Roselle, and Delmer L. Cottle, Highland Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 22, 1950, Serial No. 202,421
12 Claims. (Cl. 252—49.6)

1. A lubricating grease composition consisting essentially of a lubricating oil thickened to a grease consistency with a compound having the general formula



wherein R is an alkyl hydrocarbon group having from 14 to 22 carbon atoms and wherein R' and R'' are selected from the class consisting of hydrogen and alkyl groups containing from 1 to 20 carbon atoms.

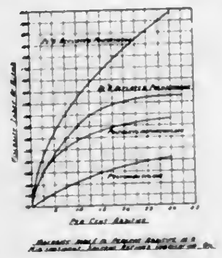
2,642,398

ACYLATED POLYSTYRENE

John Mann Butler, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application February 26, 1947, Serial No. 731,083
18 Claims. (Cl. 252—52)

7. A mineral oil containing dissolved therein 0.1% to 10% by weight of polystyrene of average molecular weight between 3,000 and 1,000,000 and which has been acylated with a monocarboxylic fatty acid chloride containing from 8



to 20 carbon atoms, which acid chloride is reacted to the extent of 0.10 to 1.0 mole of said chloride to each of the recurring units of the said polymer.

2,642,399

PROCESS FOR DISSOLVING ASH CONTAINING SODIUM SULFIDE AND SODIUM CARBONATE

Robert S. Aries and Arthur Pollak, New York, N. Y.

Application February 23, 1949, Serial No. 77,934
3 Claims. (Cl. 252—183)

1. The improvement in the treatment of waste liquors from the sulfate and sodium sulfite cooking processes which comprises adding the fused ash from the evaporation, carbonizing and reduction of such waste liquors, and containing mainly sodium sulfide and carbonate, continuously to a large circulating body of hot, concentrated sodium sulfide solution containing from 2 to 5 pounds of water per pound of sodium sulfide (Na_2S) and having a limited solubility for sodium carbonate and containing in suspension a limited amount of sodium carbonate, continuously adding water to said body in proportion to form further amounts of hot concentrated sodium sulfide solution with the added sodium sulfide of the molten ash and to form added amounts of sodium carbonate in suspension in said body, continuously withdrawing from said body a portion of the hot concentrated sodium sulfide solution and suspended carbonate, separating suspended carbonate therefrom, continuously recycling a portion of the resulting hot clear concentrated sodium sulfide liquor to said large body, and continuously withdrawing a portion of the concentrated sodium sulfide liquor, the proportion of recycled hot concentrated sodium sulfide solution being several times greater than the amount of fresh solution formed.

2,642,400

SURFACE-ACTIVE COMPOSITION

Jay C. Harris, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application May 10, 1950, Serial No. 161,044
10 Claims. (Cl. 252—353)

1. A surface-active composition composed of a mixture of from 5 percent to 95 percent of a compound of the group consisting of the sodium alkylbenzene, alkyltoluene and alkylxylene sulfonates, wherein the alkyl group has from 9 to 18 carbon atoms and from 5 percent to 95 percent of the condensation product of 1 mole of a tertiary aliphatic mercaptan with from 5 to 20 moles of ethylene oxide.

2,642,401

CATALYST RECOVERY

Henry E. Laurey, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 15, 1949, Serial No. 76,649
7 Claims. (Cl. 252—413)

7. A process for preparing molybdena-alumina catalysts from spent molybdena-alumina catalysts which comprises digesting the spent catalysts with concentrated hydrochloric acid to dissolve the spent catalyst, oxidizing the dissolved catalyst with chlorine, extracting the acid solution with a solvent consisting essentially of an alcohol containing 4–9 carbon atoms per molecule and a liquid hydrocarbon, separating a solvent phase and an acid phase, extracting the solvent phase with water, separating an aqueous phase and a solvent phase, adding ammonia to the separated aqueous phase, oxidizing the ammoniacal aqueous phase with chlorine, adjusting the pH value of the oxidized aqueous phase to above 8 by adding further amounts of ammonia whereby iron and aluminum are precipitated, filtering said precipitated aqueous phase to separate said precipitate and obtain a filtrate containing molybdenum, distilling a portion of the acid from the extracted acid phase, adding the bottoms from said distillation to the filtrate until the pH of the mixture falls to about 7.25 whereby molybdenum and aluminum are coprecipitated, separating the coprecipitate by filtration, washing and drying the coprecipitate, and compressing the dried coprecipitate into pellets.

2,642,402

OLEFIN POLYMERIZATION CATALYST AND ITS PREPARATION

Eugene S. Corner, Maplewood, and Charles S. Lynch, Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 20, 1950, Serial No. 163,288
9 Claims. (Cl. 252—435)

1. Improved olefin polymerization catalyst composition consisting esentially of a phosphoric acid deposited on a silica gel base, said catalyst having been prepared by heat treating a silica gel base at a temperature in the range of 400°–1250° F. for at least 2 hours, forming a mixture of the heat treated silica gel and a phosphoric acid and pulverizing said mixture, drying the pulverized mixture at a temperature in the range of 375°–425° F., and calcining the dried mixture at a temperature in the range of 600°–1000° F. to form an active polymerization catalyst containing in the range of 50–90% by weight of phosphoric acid.

2,642,403

CELLULAR PLASTICS CONTAINING SATURATED AND UNSATURATED POLYESTER RESINS

Eli Simon, Los Angeles, and Frank W. Thomas, Burbank, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.

No Drawing. Application January 11, 1951, Serial No. 205,605
14 Claims. (Cl. 260—2.5)

6. A foam product obtained by the reaction of, in approximate parts by weight, a polymerizable unsaturated polyester containing a plurality of ethylenic groups derived from alpha, beta-ethylenically unsaturated dicarboxylic acids and having an acid number of from 25 to 60 and wherein the ratio of the hydroxyl groups to the carboxyl groups of the alkyd reactants is approximately 1 to 1, a saturated polyester resin of the class which when catalyzed with an organic perodixe polymerization catalyst will not cross link with polymerizable ethylenically-unsaturated compounds to form the thermosetting polymers, said resins being in the proportion of from 20 parts of the unsaturated resin to 60 parts of the saturated resin to 60 parts of the unsaturated resin to 20 parts of the saturated resin, water in the proportion of from 0.25% to 4.0% by weight of the total weight of the resins, an organic peroxide polymerization catalyst in the proportion of from ½ to 5% by weight of the unsaturated resin, from 10 to 50 parts of polymerizable ethylenically unsaturated monomer for each 100 parts of the unsaturated resin, and from 17 to 80 parts of meta-toluene diisocyanate for each 100 parts of the total combined resins.

2,642,404

COMPLEMENTARY COLOR BLENDING

Ralph E. Pike, Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Original application September 30, 1948, Serial No. 51,883. Divided and this application September 24, 1951, Serial No. 247,957
17 Claims. (Cl. 260—16)



1. A coating composition adapted to yield a tough, durable finish having a metallic appearance of great depth and brilliance, comprising a vehicle and pigment, said pigment consisting of (A) the nickel complex of the azo dye obtained by coupling diazotized parachloraniline with 2,4-dihydroxyquinoline; (B) pigment substantially complementary in color to the said (A) pigment in amount to yield a gray when mixed separately therewith; (C) at least one colored tinting pigment and (D) finely divided flake aluminum metal.

2,642,405

FIRE-RETARDING COATING COMPOSITION COMPOSED OF NITROGEN-PHOSPHORUS COMPOUND WITH AN ALDEHYDE RESIN

Morris L. Nielsen, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 30, 1948, Serial No. 68,403
5 Claims. (Cl. 260—29.4)

1. A fire-retarding, coating composition consisting of a dispersion of water, the water-insoluble reaction product of phosphoryl chloride and anhydrous ammonia, said water-insoluble product having a nitrogen/phosphorus ratio between 1.75:1 and 1.85:1 and being present to the extent of 5% to 50% by weight of the solid components, and a resin selected from the group consisting of amine-aldehyde and amide-aldehyde resins.

2,642,406
SOLUTIONS OF POLYMERS OF ACRYLONITRILE
Joseph B. Dickey, Theodore E. Stanin, and Harry W. Coover, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Original application April 6, 1948, Serial No. 19,426, now Patent No. 2,487,859. Divided and this application January 27, 1949, Serial No. 73,234
6 Claims. (Cl. 260—30.6)

1. As a new composition of matter, a copolymer of acrylonitrile containing in the polymer molecule from 80 to 95% by weight of acrylonitrile and from 5 to 20% by weight of another monoethylenically-unsaturated, polymerizable compound dissolved in an organic phosphorus compound selected from the group consisting of those represented by the following two formulas:



2,642,407
ESTERIFIED AROMATIC HYDROCARBON PLASTICIZERS AND COMPOSITIONS CONTAINING SAME
Paul F. Bruins, Douglaston, N. Y., Edwin P. Wilkinson, Dallas, Tex., and Ernst P. Rittershausen, Hempstead, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 8, 1949, Serial No. 103,736
7 Claims. (Cl. 260—31.8)

1. A composition of matter comprising a vinyl resin and esterified aromatic hydrocarbons obtained by: reacting, at a temperature between about 200° F. and about 250° F. and in the presence of a Friedel-Crafts catalyst, one molar proportion of an aromatic hydrocarbon fraction containing at least about seventy per cent of aromatic hydrocarbons and having a boiling point of at least about 450° F. and less than about 800° F., with from about 0.20 to about one molar proportion of maleic anhydride to form an acidic reaction product, and reacting, at a temperature between about 150° F. and about 220° F., said acidic reaction product with 2-ethyl-hexanol-1 to form said esterified aromatic hydrocarbons.

2,642,408
STABILIZED SOLUTIONS OF ACRYLONITRILE POLYMERS AND STABILIZED SOLVENT
Theodore E. Stanin and Joseph B. Dickey, Rochester, N. Y., and Harry W. Coover, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 15, 1950, Serial No. 156,234
6 Claims. (Cl. 260—32.6)

1. As a new composition of matter, a stabilized solution of a polymer of acrylonitrile, containing in the polymer molecule at least 80 per cent by weight of acrylonitrile, in N,N-dimethylacetamide, said solution containing from 0.1 to 5.0 per cent by weight, based on the weight of the N,N-dimethylacetamide, of an inorganic oxygen acid of phosphorus.

2,642,409
PRODUCTION OF MOLDABLE COMPOSITIONS COMPRISING AN UNSATURATED ALKYD AND KAOLIN COATED WITH A HETEROCYCLIC AMINE-FORMALDEHYDE RESIN
David E. Cordier, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application May 15, 1951, Serial No. 226,537
7 Claims. (Cl. 260—39)

1. A method of producing a molding composition that gives molded articles having superior water resistance and electrical properties, which comprises coating kaolin particles with a thermosetting reaction product of formaldehyde and a substance whose molecule has a plurality of NH_2 groups each connected to a carbon atom contained in a heterocyclic ring consisting of carbon and nitrogen atoms, the carbon atom being connected by a double bond to an intracyclic nitrogen atom, and then mixing the coated kaolin particles with a polymerizable unsaturated alkyd whose molecule contains a plurality of polymerizably reactive $\Delta^{2,3}$-enedioyl groups.

2,642,410
POLYMERIZATION IN THE PRESENCE OF ORGANIC HYDROPEROXIDE AND METAL SALT DRIER
Harold A. Hoppens, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application February 24, 1947, Serial No. 730,547
6 Claims. (Cl. 260—45.4)

2. A resinous composition capable of curing in 1½ to 10 hours at room temperature, comprising a copolymerizable mixture of a polymerizable alpha, beta-unsaturated alkyd resin and a polymerizable substance having the $CH_2=C$ group and having a boiling point above 60° C., 1-hydroxy cyclohexyl hydroperoxide-1 present in an amount from 0.10 to 5 per cent based on the weight of copolymerizable resin, and a metal salt drier present in an amount of from 0.004 to 0.01 per cent metal based on the weight of copolymerizable resin.

2,642,411
PROCESS FOR PREPARING POLYMETHYL SILOXANES AND PRODUCT
Pierre Jean Chevalier, Lyon, France, assignor to Societe Des Usines Chimiques Rhone-Poulenc, Paris, France, a French body corporate
No Drawing. Application November 28, 1949, Serial No. 129,883. In France December 7, 1948
4 Claims. (Cl. 260—46.5)

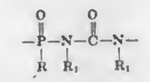
1. A process for the production of fluid compositions of matter which comprises hydrolysing a solution in diethyl ether of methyl halogenosilanes having a CH3:Si ratio of at most 1.4 by pouring the said solution into a quantity of liquid water at room temperature equal to 1 to 10 times the quantity theoretically necessary for the hydrolysis; the said methyl halogenosilanes being the sole halogenosilane employed, the said liquid water being the sole hydrolysing agent employed, and the diethyl ether being the sole organic solvent present; condensing and returning the ether vaporized by the reaction to the hydrolysed solution; separating the diethyl ether layer from the aqueous layer and recovering by evaporation of said ether a liquid composition of matter consisting essentially of a mixture of methyl polysiloxanes having a CH3:Si ratio of at most 1.4, 30 to 45% of the weight of which consists of methyl polysiloxanes which have a CH3:Si ratio of at most 1.4, which contain 8 to 20 silicon atoms in the polysiloxane molecule, which boil at 120 to 250° C., under a pressure of 8 mm. of mercury, and which gel under the action of lead naphthenate at room temperature.

2,642,412
CURING GLYCIDYL POLYETHERS WITH N,N-DIALKYL-1,3-PROPANEDIAMINES
Herbert A. Newey, Lafayette, and Edward C. Shokal, Walnut Creek, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application August 7, 1951, Serial No. 240,794
8 Claims. (Cl. 260—47)

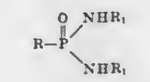
1. A process for producing a resinous product which comprises commingling an N,N-dialkyl-1,3-propanediamine wherein the alkyl groups contain 1 to 2 carbon atoms with glycidyl polyether of a member of the group consisting of a polyhydric phenol and a polyhydric alcohol, said polyether having a 1,2-epoxy equivalency greater than 1.0, amount of 0.05 to 1 mol of the amine per epoxide equivalent weight of the pol, ether, and curing the mixture at about 20° C. to 250° C. to a hard resinous product.

2,642,413
POLYMERS OF PHOSPHONIC ACID DIAMIDES WITH UREAS
Harry W. Coover, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 7, 1951, Serial No. 260,589
12 Claims. (Cl. 260—77.5)

1. A process for preparing a resinous condensation polymer characterized by containing in the polymer chain the recurring structural group:



wherein R represents a hydrocarbon radical containing not more than 7 carbon atoms and R_1 represents a member selected from the group consisting of an atom of hydrogen and an alkyl group containing from 1 to 4 carbon atoms, comprising heating a mixture comprising from 50 to 95 mol per cent of an organo-phosphonic acid diamide having the general formula:



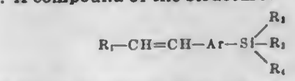
wherein R and R_1 have the above meanings, and from 50 to 5 mol per cent of a compound selected from the group consisting of urea, thiourea, an N-alkyl urea, an N-alkyl thiourea, an N,N'-dialkyl urea and an N,N'-dialkyl thiourea wherein each alkyl group contains from 1 to 4 carbon atoms, at a temperature of from 150° to 400° C., until condensation of the reactants is substantially complete.

2,642,414
COPOLYMERS OF MALEIC ESTERS AND LONG CHAIN ALKYL METHACRYLATES
La Verne N. Bauer, Philadelphia, Harry T. Neher, Bristol, and William L. Van Horne, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 3, 1950, Serial No. 142,338
6 Claims. (Cl. 260—78.5)

1. A copolymer of an ester (A) of methacrylic acid and a saturated monohydric aliphatic alcohol, ROH, in which R is an alkyl group having a chain of 16 to 18 carbon atoms, and an ester (B) of at least one saturated monohydric aliphatic alcohol, R'OH, in which R' is an alkyl group of 4 to 14 carbon atoms, and a maleic-type acid, HOOCC(X)=CHCOOH, in which X is a member of the class consisting of hydrogen, chlorine, and the methyl group, the proportion of ester (A) groups to ester (B) groups in the copolymer being within the following ratios, $1:x$ and $1:y$, the value of x being determined by the equation $0.7n-x=0.3$ and the value of y being determined by the equation $0.022n-y=0.013$, n representing the number of carbon atoms in the longest straight chain of R'.

2,642,415
SILYL AROMATIC COMPOUNDS
Field H. Winslow, Springdale, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 28, 1951, Serial No. 223,640
10 Claims. (Cl. 260—80)

1. A compound of the structure:



wherein R_1 is selected from the group consisting of hydrogen and hydrocarbon radicals containing no non-benzenoid unsaturation, Ar is a phenylene radical and R_2, R_3 and R_4 are each hydrocarbon radicals containing no non-benzenoid unsaturation.

2,642,416
FLUORINATED ACRYLATES AND POLYMERS
Arthur H. Ahlbrecht, White Bear Township, Ramsey County, Thomas S. Reid, New Canada Township, Ramsey County, and Donald R. Husted, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application January 9, 1952, Serial No. 265,713
16 Claims. (Cl. 260—83.5)

1. As new compounds, the 1,1-dihydroperfluoroalkyl acrylates having the formula:

$$CH_2{:}CHCOOCH_2C_nF_{2n+1}$$

where n has an integer value of 3 to 9.

2,642,417
PROCESS FOR MAKING ANION-EXCHANGE RESINS
Robert M. Wheaton and Donald F. Harrington, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application May 21, 1952, Serial No. 289,195
6 Claims. (Cl. 260—88.1)

1. In a process for making an anion exchange resin wherein a halomethylated copolymer of a

major proportion by weight of a monovinyl aromatic hydrocarbon and a minor proportion of a polyvinyl aromatic hydrocarbon, which halomethylated copolymer contains halomethyl groups selected from the class consisting of the chloromethyl and bromomethyl groups as nuclear substituents, is reacted with an amine containing a hydrogen atom on the nitrogen atom, the steps which consist in heating particles of the halomethylated copolymer and an alkylene polyamine in proportions corresponding to from 0.9 to 2 moles of the alkylene polyamine per halomethyl group in the copolymer in admixture with an aqueous solution containing from 30 to 60 per cent by weight of an alkali metal hydroxide, in amount sufficient to form a slurry capable of being stirred, at a reaction temperature between 25° and 130° C. whereby a polymeric alkylene polyamine is formed and separating the polymeric amine from the reaction mixture.

2,642,418

PROCESS FOR THE PRODUCTION OF POLYACRYLIC NITRILE

Heinrich Wenning, Marl in Westphalia, Germany, assignor to Chemische Werke Huls Gesellschaft mit beschränkter Haftung, Kreis Recklinghausen, Germany, a corporation of Germany

Application November 9, 1951, Serial No. 255,567
In Germany November 13, 1950
2 Claims. (Cl. 260—88.7)

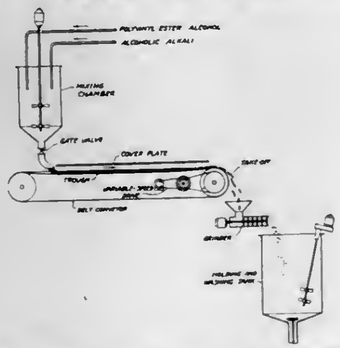
1. Process for the production of polyacrylic nitrile by polymerization of acrylic nitrile in aqueous dispersion in the presence of water soluble redox catalysts, characterized in that the dispersion is maintained under superatmospheric pressure and at a pH value of about 4 to 5 solely by the presence of dissolved carbon dioxide.

2,642,419

PREPARATION OF POLYVINYL ALCOHOL

George P. Waugh and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 31, 1950, Serial No. 141,450
4 Claims. (Cl. 260—91.3)



1. A method for the continuous manufacture of polyvinyl alcohol which comprises preparing an essentially anhydrous alcoholic solution of an alkali metal hydroxide of the group consisting of lithium, sodium and potassium hydroxides, and an essentially anhydrous alcoholic solution of polyvinyl acetate, simultaneously introducing said solutions into a mixing chamber and thoroughly mixing said solutions, while the resultant mixture is in a fluid state continuously flowing it out onto an inert surface continuously moving away from the source of mixing, allowing the mixture to form a gel on said surface and after approximately twice the gelling time of said mixture and before substantial syneresis has taken place continuously removing the gel from the surface and immediately thereafter comminuting the gel, allowing the comminuted gel to synerese for at least one hour and washing it with water at a temperature below the minimum solution temperature of the gel.

2,642,420

PREPARATION OF POLYVINYL ALCOHOL

William O. Kenyon, George P. Waugh, and Erle W. Taylor, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 2, 1948, Serial No. 36,816
4 Claims. (Cl. 260—91.3)

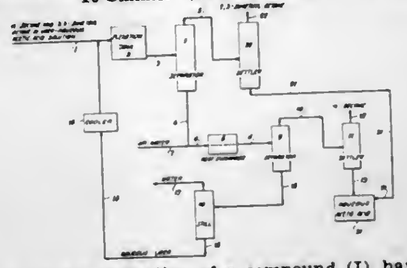
1. The method of preparing a highly pure polyvinyl alcohol which comprises deacetylating polyvinyl acetate while in a methanol solution by the aid of an acid deacetylating catalyst to form a polyvinyl alcohol gel, continuing the deacetylation to produce a gel which is insoluble in water having a temperature not greater than approximately 50° C., and washing the gel with water having a temperature not greater than approximately 50° C. until substantially free from the reaction by-products and residual catalyst.

2,642,421

SEPARATION OF HYDROCARBONS AND HYDROCARBON DERIVATIVES

Alfred W. Francis, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application September 13, 1949, Serial No. 115,396
10 Claims. (Cl. 260—96.5)



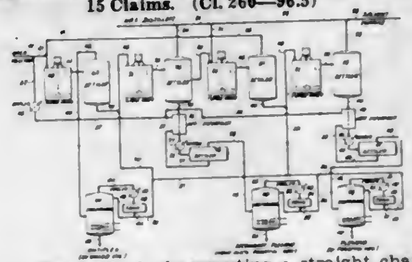
1. In the separation of a compound (I) having the capacity to form a crystalline complex with a complex-forming agent selected from the group consisting of urea and thiourea, from a mixture containing said compound (I) and a compound (II) incapable of forming a crystalline complex with the same said agent, whereby said compound (I) preferentially forms a complex with said agent, and wherein said complex and compound (II) are separated, the improvement which comprises: so contacting said mixture and said agent in an aqueous acetic acid medium determined by those containing from about 20 per cent by weight of acetic acid to about 70 per cent by weight when said contact is affected at about 10° C., to about 88 per cent by weight when said contact is affected at about 25° C., and to 100 per cent by weight when said contact is affected at about 40° C.

2,642,422

SEPARATION OF HYDROCARBONS AND HYDROCARBON DERIVATIVES

Everett Gorin, Castle Shannon, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application September 13, 1949, Serial No. 115,513
15 Claims. (Cl. 260—96.5)



1. The method of separating a straight chain compound represented by general formula (C):

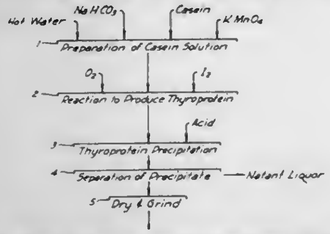
(C) $X'(CH_2)_{r-1}CH(CH_2)_mCH_3$
$\quad\quad\quad

2,642,426

METHOD OF PRODUCING THYROPROTEIN

Edward S. West and John T. Van Bruggen, Portland, Oreg., assignors to Feed Products Company, Petaluma, Calif., a corporation of California

Application April 17, 1950, Serial No. 156,374
4 Claims. (Cl. 260—112)



1. A method for producing synthetic thyroprotein comprising forming an alkaline aqueous solution of tyrosine-containing protein having a pH between approximately 8 and 9 and an amount of protein between 50 and 75 grams per liter of solution, incorporating a manganese oxide catalyst into said solution in an amount equivalent to 1/8 to 1/4 pound of potassium permanganate per 300 pounds of said protein, adding iodine to said solution in an amount equivalent to 9 to 12 grams per 60 grams of protein while said solution is at a temperature of from 150 to 175° F., said iodine being added over a period of from 15 to 30 minutes, continuously agitating and sparging the solution with oxygen beginning before the introduction of said iodine, increasing the temperature of the solution to from 180 to 190° F. as soon as substantially all of the iodine has been added and continuing said agitation and sparging with oxygen at the last-named temperature until the product contains the desired thyroxine content.

2,642,427

PIPERAZINE SALTS OF CYCLOPENTANOPOLYHYDROPHENANTHRENE-3-MONOSULFATES

Richard B. Hasbrouck, Waukegan, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application August 1, 1951, Serial No. 239,857
10 Claims. (Cl. 260—239.5)

1. A therapeutic compound selected from the group consisting of piperazine estrone-3-monosulfate, piperazine estradiol-3-monosulfate, piperazine equilin-3-monosulfate and piperazine equilenin-3-monosulfate.

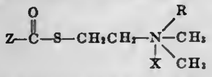
2,642,428

QUATERNARY AMMONIUM ETHYL THIOCARBAMATES

John Weijlard and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application February 8, 1950, Serial No. 143,158
4 Claims. (Cl. 260—247.1)

1. Quaternary salts having the formula:



wherein Z is a radical selected from the group which consists of piperidino and morpholino radicals, R is a lower alkyl radical, and X is an anion derived from RX where RX is a lower alkyl ester of an inorganic acid.

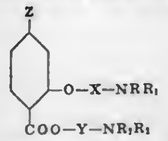
2,642,429

TERTIARY-AMINOALKYL 4-SUBSTITUTED-2-(TERTIARY-AMINOALKOXY)BENZOATES AND THEIR SYNTHESIS

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,246
23 Claims. (Cl. 260—247.2)

1. A compound having the formula



where Z is a member of the group consisting of nitro and amino, X and Y are each lower alkylene radicals whose two free valence bonds are on different carbon atoms, and NRR_1 and NR_2R_3 are each members of the group consisting of dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl.

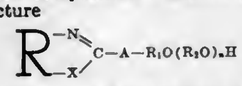
2,642,430

HYDROXY SUBSTITUTED ALIPHATIC ETHER DERIVATIVES OF NITROGEN HETEROCYCLICS

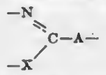
Paul M. Downey, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 27, 1949, Serial No. 90,052
13 Claims. (Cl. 260—289)

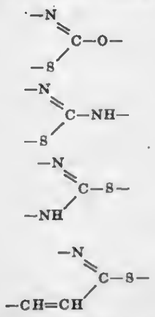
1. As a new composition of matter a compound of the structure



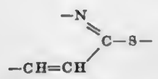
where R is an ortho arylene radical; where



is selected from the group consisting of



and



where R_1 and R_2 are alkylene groups containing at least two but less than four carbon atoms; and where n is an integer at least 1 but not more than 40.

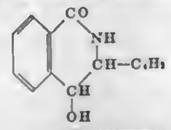
2,642,431

1-KETO-3-BUTYL-4-HYDROXY-1,2,3,4-TETRAHYDROISOQUINOLINE

Glenn E. Ullyot, Philadelphia, Pa., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application September 20, 1949, Serial No. 116,866
1 Claim. (Cl. 260—289)

A compound having the structure:



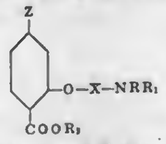
2,642,432

LOWER ALKYL 4-SUBSTITUTED-2-(TERTIARY-AMINOALKOXY)BENZOATES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,244
18 Claims. (Cl. 260—294.3)

1. A compound having the formula



where Z is a member of the group consisting of nitro, amino, lower alkylamino and lower hydroxyalkylamino, X is a lower alkylene radical whose two free valence bonds are on different carbon atoms, NRR_1 is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, and R_2 is a lower alkyl radical.

2,642,433

α-AMINO-α,α-DIPHENYLACETIC ACID DERIVATIVES AND METHOD OF PREPARING SAME

Robert Duschinsky, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application November 17, 1949, Serial No. 128,006
18 Claims. (Cl. 260—294.3)

1. The process which comprises reacting by heating 4,4-diphenyl-2,5-oxazolidinedione with a member of the group consisting of a lower alkanol, a lower alkanethiol, a lower tertiaryaminoalkanol, and a lower tertiaryaminoalkanethiol in the presence of an hydrogen halide to form the corresponding α-amino-α,α-diphenylacetic acid ester hydrohalides and α-amino-α,α-diphenylthioacetic acid ester hydrohalides, said tertiaryaminoalkanol and tertiaryaminoalkanethiol being represented by the following formula:

$$HX—CH_2—R—N(R_1)(R_2)$$

wherein X stands for a member of the group consisting of oxygen and sulfur, R for a lower alkylene radical, and R_1 and R_2 are members of the class consisting of lower alkyl radicals and further members where R_1 and R_2 taken with N form a saturated heterocyclic radical.

5. A compound of the group consisting of a tetriaryaminoalkyl ester and the salts thereof which in the form of the free base can be represented by the following formula:

$$Ph_2C(NH_2)—CO—X—CH_2—R—N(R_1)(R_2)$$

wherein Ph is a phenyl radical, X is a member of the group consisting of oxygen and sulfur, R is a lower alkylene radical, and R_1 and R_2 are members of the class consisting of a lower alkyl radical and further members where R_1 and R_2 taken together with N form a saturated heterocyclic radical.

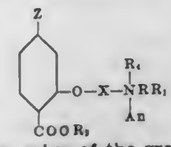
2,642,434

QUATERNARY AMMONIUM SALTS OF LOWER ALKYL 4-SUBSTITUTED-2-(TERTIARY-AMINOALKOXY)BENZOATES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,248
15 Claims. (Cl. 260—294.3)

1. A quaternary ammonium salt having the formula



where Z is a member of the group consisting of nitro, amino, alkylamino and hydroxyalkylamino, X is a lower alkylene radical whose two free valence bonds are on different carbon atoms, NRR_1 is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and morpholinyl, R_2 is a lower alkyl radical, R_4 is a member of the group consisting of a lower alkyl radical and a benzyl radical, and An is a non-toxic anion of a strong acid.

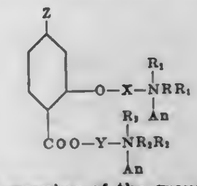
2,642,435

QUATERNARY AMMONIUM SALTS OF TERTIARY-AMINOALKYL 4-SUBSTITUTED-2-(TERTIARY-AMINOALKOXY)BENZOATES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,249
24 Claims. (Cl. 260—294.3)

1. A quaternary ammonium salt having the formula



where Z is a member of the group consisting of nitro and amino, X and Y are each lower alkylene

radicals whose two free valence bonds are on different carbon atoms, NRR_1 and NR_2R_3 are each members of the group consisting of dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower-alkylated)-1-pyrrolidyl and 4-morpholinyl, R_3 is a member of the group consisting of a lower alkyl radical and a benzyl radical, and An is a non-toxic anion of a strong acid.

2,642,436

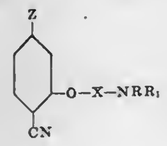
4-SUBSTITUTED-2-(TERTIARY-AMINOALKOXY)-BENZONITRILES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,243

17 Claims. (Cl. 260—294.7)

1. A compound having the formula



where Z is a member of the group consisting of nitro, amino, lower alkylamino and lower hydroxyalkylamino, X is a lower alkylene radical whose two free valence bonds are on different carbon atoms and NRR_1 is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl.

2,642,437

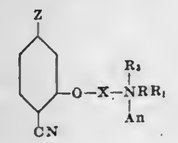
QUATERNARY AMMONIUM SALTS OF 4-SUBSTITUTED-2-(TERTIARY-AMINOALKOXY) BENZONITRILES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,247

24 Claims. (Cl. 260—294.7)

1. A quaternary ammonium salt having the formula



where Z is a member of the group consisting of nitro, amino, alkylamino and hydroxyalkylamino, X is a lower alkylene radical whose two free valence bonds are on different carbon atoms, NRR_1 is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, R_3 is a member of the group consisting of a lower alkyl radical and a benzyl radical, and An is a non-toxic anion of a strong acid.

2,642,438

PYRIDINDOLES AND METHOD OF MANUFACTURE

Robert Duschinsky, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application July 15, 1949, Serial No. 105,061

11 Claims. (Cl. 260—296)

1. A compound of the group consisting of 9-R-2-R_1-1,2,3,4-tetrahydro-9H-pyrid-(3,4-b)indole wherein R is a member of the group consisting of monocyclic aryl and monocyclic aralkyl radicals of the benzene series, and R_1 is a member of the group consisting of hydrogen and lower alkyl radicals, and lower alkyl quaternary salts and acid addition salts thereof.

2,642,439

PROCESS FOR PRODUCING 7-BROMO-5-CHLOROISATIN AND THE CORRESPONDING SODIUM SALT OF ISATIC ACID

Robert F. Coles, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 3, 1950, Serial No. 166,076

7 Claims. (Cl. 260—325)

1. A process which comprises treating 1,5-dichloroisatin with a solution containing bromide ions to produce 7-bromo-5-chloroisatin.

2,642,440

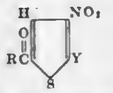
NITROTHIENYL KETONES

Kenneth L. Kreuz, Fishkill, N. Y., and Charles D. Hurd, Evanston, Ill., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application October 7, 1948, Serial No. 53,378

6 Claims. (Cl. 260—332.3)

1. Nitrothienyl ketones having the general formula



wherein Y is a radical selected from the group consisting of —OH, —OR, —OC_6H_5, —NH_2, —NHR and —NHC_6H_5 and R is an alkyl radical.

2,642,441

CHEMICAL COMPOUNDS AND PROCESSES OF PREPARING THE SAME

Martin Seidman, Badger, and Karl Paul Link, Middleton, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application August 21, 1950, Serial No. 180,698

2 Claims. (Cl. 260—343.2)

1. The product, 2-methyl-4-phenyl-5-oxo-γ-pyrano (3,2-c) (1) benzopyran.

2,642,442

CHLOROMETHYLATED ARYLAMINOBENZANTHRONES

Edgar E. Renfrew, Phillipsburg, N. J., and David I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 13, 1950, Serial No. 200,688

12 Claims. (Cl. 260—364)

1. A nuclear chlormethyl-substituted arylaminobenzanthrone compound wherein at least one chlormethyl group is substituted on the aryl moiety of the arylamino member.

2,642,443

QUATERNARY COMPOUNDS DERIVED FROM CHLOROMETHYLATED ARYLAMINOBENZANTHRONES

David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 13, 1950, Serial No. 200,689

7 Claims. (Cl. 260—364)

1. A member of the group consisting of benzanthrone arylaminomethyl-quaternary nitrogen base and -isothiouronium salts.

2,642,444

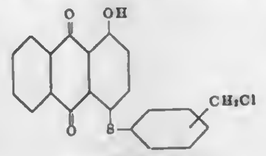
CHLOROMETHYLATED ARYL THIOETHERS OF THE ANTHRAQUINONE SERIES

David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 19, 1951, Serial No. 206,934

1 Claim. (Cl. 260—383)

A nuclear chloromethyl-substituted phenyl thioether of hydroxy anthraquinone having the formula



2,642,445

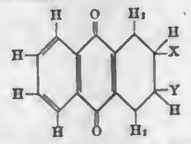
HALOGEN ADDITION PRODUCTS OF 1,4-DIHYDROANTHRAQUINONE

Hans Z. Lecher, Plainfield, and Karl C. Whitehouse, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 7, 1951, Serial No. 230,426

8 Claims. (Cl. 260—384)

1. A 2,3-dihalo-1,2,3,4-tetrahydroanthraquinone of the formula



in which X and Y represent halogens of an atomic weight above 34.

2,642,446

PRODUCTION OF 7-DEHYDROSTEROLS

Roland Kapp, Newark, N. J., Saul Chodroff, Brooklyn, N. Y., and Le Roy Sofield, Red Bank, N. J., assignors to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application January 7, 1950, Serial No. 137,494

8 Claims. (Cl. 260—397.2)

1. In a process for the production of a 7-dehydrosterol, the step comprising isolating a 7-halogeno sterol ester from the halogenation reaction mixture in which it was formed by cooling the halogenation reaction mixture to a temperature of at least about 0° C. and then separating from the cooled solution the 7-halogeno sterol ester which crystallizes at the low temperature, said cooling of the solution to the low temperature being carried out after removal from the halogenation reaction mixture of the nitrogen compound formed by the reaction of the sterol ester and the halogeno nitrogen compound employed as the halogenating agent.

2,642,447

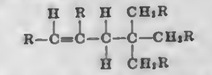
PREPARATION OF ORGANOSILICON COMPOUNDS

Edwin P. Plueddemann, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application January 6, 1950, Serial No. 137,271

6 Claims. (Cl. 260—448.2)

1. A method that comprises preparing a beta-gamma-alkenylhalosilane by reacting at a temperature from 275° C. to 400° C. (1) a silane whose molecule consists of a silicon atom to which are attached four monovalent radicals consisting of (a) from one to two hydrogens, (b) from one to three halogens each having an atomic weight between 35 and 80, and (c) not more than one radical of the class consisting of phenyl and saturated hydrocarbon radicals having from one to six carbon atoms with (2) a substance having the general formula



wherein R is of the class consisting of alkyl radicals and H, said substance having not more than sixteen carbon atoms.

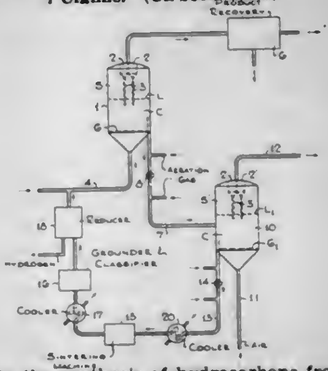
2,642,448

HYDROCARBON SYNTHESIS

Ivan Mayer, Summit, N. J., and Virginia C. Johnson, Knoxville, Tenn., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 16, 1948, Serial No. 60,312

7 Claims. (Cl. 260—449.6)



1. In the synthesis of hydrocarbons from carbon monoxide and hydrogen using a fluidized iron-type catalyst consisting of 40 to 200 micron-size solid particles having a weight mean average particle diameter in excess of 50 microns, the method of obtaining the maximum conversion of reactants per unit catalyst volume which com-

prises maintaining a fluid catalyst having a weight mean average catalyst particle size of from about 30 to 50 microns by adding said particles of 40 to 200 micron size to a fluid bed of more finely divided catalyst maintained within a reaction zone under synthesis conditions of temperature, pressure and synthesis gas feed, continuously withdrawing from said reaction zone catalyst particles containing carbonaceous material, controlling the rate of said catalyst addition as an inverse function of the average particle size of the catalyst added, and maintaining continuously over an extended period of time within the fluid bed a catalyst of high activity having the desired 30 to 50 micron average particle size, whereby the synthesis gas feed rate for a given feed conversion may be maintained higher than in a bed of said catalyst having the same volume wherein said particle size averages either larger than about 50 microns or smaller than 30 microns.

2,642,449

PREPARATION OF POLYISOCYANATES

Marion G. Morningstar, Charles S. Schollenberger, and Grant E. Stueber, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 18, 1951, Serial No. 252,002

16 Claims. (Cl. 260—453)

4. The method for preparing organic polyisocyanates which comprises mixing together in a closed system an excess of phosgene with a compound selected from the class consisting of poly primary amines and acid salts of poly primary amines at a temperature from 10° C. to 30° C., heating these reactants to a temperature from about 100° C. to 200° C. and at a pressure of from about four atmospheres to that corresponding to the total vapor pressure of the reaction medium at the reaction temperature, removing the volatile reaction by-products substantially as rapidly as formed while substantially retaining the phosgene within the closed system, then removing the unreacted phosgene and recovering the polyisocyanate.

2,642,450

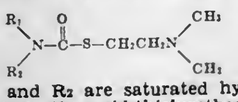
THIOLURETHANE QUATERNARY AMMONIUM SALTS AND PROCESSES FOR PREPARING THEM

John Weijlard and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

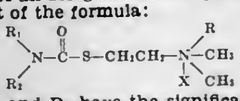
No Drawing. Application December 13, 1949, Serial No. 132,793

9 Claims. (Cl. 260—455)

1. The process which comprises reacting dimethylaminoethyl thiol with a carbamyl chloride having two saturated hydrocarbon substituents attached to the nitrogen atom of the carbamyl grouping to produce a thiolurethane of the formula:



wherein R_1 and R_2 are saturated hydrocarbon radicals, and reacting said thiolurethane with an alkyl ester of an inorganic acid to produce a quaternary salt of the formula:



wherein R_1 and R_2 have the significance above-defined, R is an alkyl radical, and X is an anion.

2,642,451

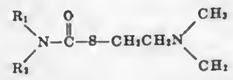
THIOLURETHANES AND PROCESSES FOR PREPARING THEM

John Weijlard, Maplewood, and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application December 13, 1949, Serial No. 132,793. Divided and this application June 25, 1952, Serial No. 295,113

8 Claims. (Cl. 260—455)

1. The process which comprises reacting dimethylamino-ethylthiol with a carbamyl chloride having two saturated hydrocarbon substituents attached to the nitrogen atom of the carbamyl grouping to produce a thiolurethane of the formula:



wherein R_1 and R_2 are saturated hydrocarbon radicals.

2,642,452

SYNTHETIC LUBRICATING OIL

Louis A. Mikeska and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 17, 1948, Serial No. 65,986

4 Claims. (Cl. 260—461)

1. A synthetic lubricating oil having an ASTM pour point below about —35° F., a viscosity index above about 125, a viscosity at 210° F. of at least 3.0 centistokes and a flash point of at least 450° F., said oil consisting predominantly of C_8 to C_{14} highly branched trialkyl esters of phosphoric acid, the ester portions of said phosphoric acid esters being derived from a primary monohydric alcohol boiling below about 450° F. which is obtained by Oxo synthesis wherein there is employed as the olefinic substance a hydrocarbon material whose olefin content consists of not more than 20% by weight based on the total olefin of an olefin of the type $RHC{=}CH_2$ where R is a straight chain saturated aliphatic hydrocarbon radical.

2,642,453

PREPARATION OF BORATES OF TERTIARY ALCOHOLS

Samuel B. Lippincott, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 26, 1947, Serial No. 776,199

8 Claims. (Cl. 260—462)

1. A process for producing tertiary butyl borate which comprises reacting tertiary butanol with boric acid in a reaction zone having present therein a volatile water-immiscible entrainer, heating the reaction zone to the boiling point of the mixture, passing a vapor mixture comprising the ternary azeotrope of tertiary butanol, water and the entrainer together with excess tertiary butanol from the reaction zone to a fractionation zone wherein the excess tertiary butanol is separated from the ternary azeotrope, refluxing the excess tertiary butanol to the reaction zone, condensing the azeotrope vapor from the fractionation zone whereby an aqueous phase and a water-immiscible entrainer phase are formed, removing the aqueous phase, returning the entrainer phase to the reaction zone, and recovering tertiary butyl borate from a residual mixture in the reaction zone.

2,642,454

PROCESS FOR MAKING NITRILES

John E. Mahan and Stanley D. Turk, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application November 23, 1949, Serial No. 129,192

2 Claims. (Cl. 260—465.3)

1. A process for the production of acetonitrile which comprises admixing a three to five carbon atom paraffin with ammonia in relative proportions of from 0.3 to 5 mols of ammonia per mol of paraffin and passing the resulting mixture in vapor phase at a temperature within the range of from 800° F. to 1000° F. and at a pressure within the range of from atmospheric to 250 pounds per square inch gage for a time of from 0.5 to 10 seconds into contact with a catalyst consisting of cobalt molybdate precipitated on alumina gel and having a weight per cent composition of from 5 to 25 per cent cobalt molybdate on the dry basis.

2,642,455

2-ETHYL-HEXANOL-1 ESTERS OF THE FRIEDEL - CRAFTS MALEIC ANHYDRIDE - AROMATIC HYDROCARBON ADDUCTS AND PROCESS

Paul F. Bruins, Douglaston, N. Y., Edwin P. Wilkinson, Dallas, Tex., and Ernst P. Rittershausen, Hempstead, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Original application July 8, 1949, Serial No. 103,736. Divided and this application February 6, 1951, Serial No. 209,712

5 Claims. (Cl. 260—469)

1. Esterified aromatic hydrocarbons obtained by: reacting, at a temperature between about 200° F. and about 250° F. and in the presence of a Friedel-Crafts catalyst, one molar proportion of an aromatic hydrocarbon fraction containing at least about seventy per cent of aromatic hydrocarbons and having a boiling point of at least about 450° F. and less than about 800° F., with from about 0.20 to about one molar proportion of maleic anhydride to form an acidic reaction product, and reacting, at a temperature between about 150° F. and about 220° F., said acidic reaction product with 2-ethyl-hexanol-1 having about eight carbon atoms per molecule, to form said esterified aromatic hydrocarbons.

2,642,456

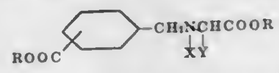
N-CARBOXYALKYL-α-AMINO TOLUIC ACIDS AND THEIR ALKYL ESTERS

William S. Emerson and Robert A. Heimsch, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 25, 1950, Serial No. 158,074

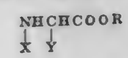
8 Claims. (Cl. 260—471)

1. Compounds having the general structure

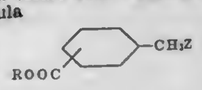


in which R is a member of the group consisting of hydrogen and alkyl radicals of from 1 to 8 carbon atoms, X is a member of the group consisting of hydrogen and the methyl radical and Y is a member of the group consisting of hydrogen and alkyl groups of from 1 to 4 carbon atoms.

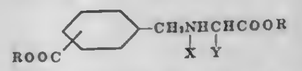
5. The process which comprises contacting an amino compound having the general formula



in which X is a member of the group consisting of hydrogen and the methyl radical and Y is a member of the group consisting of hydrogen and alkyl radicals of from 1 to 4 carbon atoms, and R is a member of the group consisting of hydrogen and alkyl radicals of from 1 to 8 carbon atoms, with a toluic acid compound having the general formula



in which R is a member of the group consisting of hydrogen and alkyl radicals of from 1 to 8 carbon atoms and Z is a member of the group consisting of chlorine, bromine and iodine, and recovering from the reaction product a dicarboxylic compound having the general formula



in which R is a member of the group consisting of hydrogen and alkyl radicals of from 1 to 8 carbon atoms, is a member of the group consisting of hydrogen and the methyl radical and Y is a member of the group consisting of hydrogen and alkyl radicals of from 1 to 4 carbon atoms.

2,642,457

DIALKYL AR-CARBOXYDIHYDRO-CINNAMATES

William S. Emerson and Robert A. Heimsch, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 20, 1950, Serial No. 157,181

9 Claims. (Cl. 260—475)

1. As new compounds, dialkyl ar-carboxyhydrocinnamates in which each alkyl group has from 4 to 8 carbon atoms.

4. The process of producing dialkyl ar-carboxyhydrocinnamates in which each alkyl group has from 4 to 8 carbon atoms which includes contacting a dialkyl ar-carboxyhydrocinnamate in which each alkyl group has from 1 to 2 carbon atoms with an unsubstituted, saturated, aliphatic alcohol of from 4 to 8 carbon atoms, in the presence of an esterifying catalyst, and recovering from the reaction product dialkyl ar-carboxyhydrocinnamates in which each alkyl group has from 4 to 8 carbon atoms.

2,642,458

PROCESS OF PREPARING 2-SULFOBENZOIC ACID

Floyd B. Erickson, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 26, 1950, Serial No. 176,082

5 Claims. (Cl. 260—507)

1. The process of preparing 2-sulfobenzoic acid which comprises heating thianaphthene, in the liquid phase with a molar excess of an oxidiz-

ing agent selected from the class consisting of alkali metal permanganates, alkali metal dichromates, chromic acid and aqueous nitric acid.

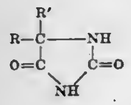
2,642,459

PRODUCTION AND PURIFICATION OF AMINO ACIDS

Halbert C. White, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 8, 1948, Serial No. 64,239
9 Claims. (Cl. 260—534)

1. In a method wherein an aqueous solution of a hydantoin, having the general formula:



in which R and R' each individually represents a member of the group consisting of hydrogen and monovalent organic radicals having a carbon atom thereof attached to the hydantoin nucleus, is treated with an alkali metal base in amount corresponding to at least twice the molecular equivalent of the hydantoin, and the mixture is heated to hydrolyze the hydantoin and thus form an aqueous solution of an alkali metal salt of an alpha-amino-carboxylic acid, the steps of evaporating water from the hydrolysis mixture until dissolved salts are crystallized therefrom, extracting the alkali metal salt of the alpha-amino carboxylic acid from the residue with an aqueous alcohol solution, containing a lower alcohol in a concentration of from 60 to 98 per cent by weight, to leave inorganic salts in the residue, precipitating the alpha-amino-monocarboxylic acid from the extract by neutralizing the latter with a stronger carboxylic acid to leave the resultant alkali metal salt of the stronger carboxylic acid in solution, and separating the crystalline alpha-amino-monocarboxylic acid product.

2,642,460

ISOMERIZATION OF ALKYL VINYL ETHERS

David C. Hull and Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 10, 1948, Serial No. 48,764
12 Claims. (Cl. 260—601)

1. A process for isomerizing an alkyl vinyl ether to an aliphatic aldehyde containing the same number of carbon atoms as said alkyl vinyl ether comprising heating an alkyl vinyl ether containing from 1 to 5 carbon atoms in the alkyl group in the presence of a metallic catalyst consisting of at least one member selected from the group consisting of aluminum oxide, a metal salt of an oxygen acid of phosphorus, a catalyst consisting of aluminum oxide and thorium oxide, a catalyst consisting of aluminum oxide and zirconium oxide, a catalyst consisting of aluminum oxide and boron oxide, a catalyst consisting of aluminum oxide and silicon oxide, and a catalyst consisting of aluminum oxide and tungsten oxide, at a temperature of from 150°–400° C. and a contact time of from 0.5–2.0 seconds.

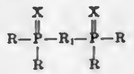
2,642,461

ORGANODIPHOSPHINE OXIDES AND SULFIDES

Rupert C. Morris, Berkeley, and John L. Van Winkle, San Lorenzo, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application March 29, 1952, Serial No. 279,464
8 Claims. (Cl. 260—607)

1. A compound of the type having the general formula



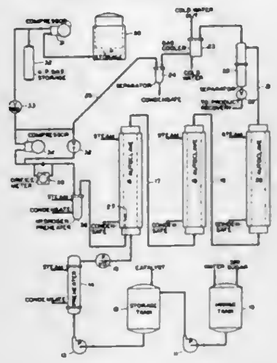
where the X's represent a radical selected from the group consisting of the oxo and the thio radicals, and the R's and R_1 represent organic radicals bonded to the adjacent phosphorus atoms through carbon-to-phosphorus bonds.

2,642,462

PROCESS FOR CONTINUOUS HYDROGENATION OF SUGARS

Leo Kaschagen, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

Application June 14, 1948, Serial No. 32,845
9 Claims. (Cl. 260—635)



1. The process for continuously hydrogenating a reducible sugar to polyhydric alcohol which comprises continuously feeding into the lower end of a vertical reactor a suspension of finely divided hydrogenation catalyst in a solution of the sugar, maintaining the reactor at hydrogenating temperature, continuously feeding hydrogen under pressure into the lower end of said reactor, maintaining a selected hydrogenating pressure in the reactor, the rate of hydrogen feed being at least equal to the critical hydrogen rate, expressed in terms of linear feet of hydrogen flow per hour in the reactor at reactor pressure and temperature, required by the equation

$$\text{critical hydrogen rate} = 76.5 + 0.130H$$

where H=the rate of hydrogen usage in cubic feet per hour per square foot of reactor cross sectional area, hydrogen volume being expressed in terms of one atmosphere pressure and 0° C.,

2,642,463

METAL TUNGSTITE CATALYZED HYDROGENATION PROCESS

Herrick R. Arnold, Wilmington, and James E. Carnahan, New Castle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 30, 1951, Serial No. 208,663
18 Claims. (Cl. 260—638)

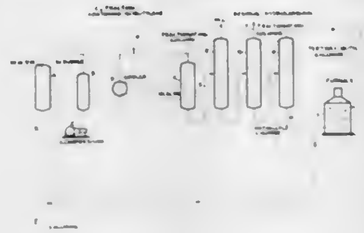
1. In a process for the hydrogenation of an organic compound capable of undergoing hydrogenation with hydrogen in the presence of a hydrogenation catalyst, the improvement which comprises reacting with hydrogen said organic compound capable of undergoing hydrogenation, at a temperature within the range of 25° to 500° C., and in contact with a metal tungstite which is the metal salt of an acid selected from the class consisting of the acid having the formula H_2WO_3 and the acid having the formula H_2WO_4, and said metal being selected from the class consisting of nickel, cobalt, iron, copper, zinc, silver, cadmium, manganese and tin.

2,642,464

PRODUCTION OF METHALLYL HALIDES

Harry A. Cheney, Alasdair W. Fairbairn, and Orris L. Davis, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application May 29, 1948, Serial No. 29,966
6 Claims. (Cl. 260—654)



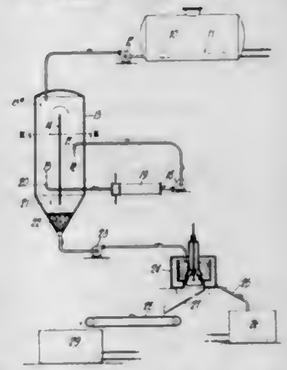
6. A process for producing a methallyl halide which comprises preheating a tertiary butyl halide of the group consisting of tertiary butyl chloride and tertiary butyl bromide, reacting a molar excess of the said preheated tertiary butyl halide with a halogen corresponding to the halogen in the said tertiary butyl halide at a temperature above 300° C. for a period between about .1 second to 10 seconds, cooling the resulting mixture and mixing it with a hydrocarbon stream containing isobutylene at such a rate that the hydrogen halide in the said reaction mixture and the added isobutylene are in a mole ratio between about 1 to 1 and 4 to 1, reacting the resulting mixture in the liquid phase at a temperature below 300° C. but above −80° C. for a period not in excess of 200 seconds whereby isobutylene is hydrohalogenated to tertiary butyl halide, subjecting the effluent of the hydrohalogenation reaction to a series of distillations to separate out the excess hydrogen halide, the residual hydrocarbons, the tertiary butyl halide and the methallyl halide, recycling the tertiary butyl halide to the preheat step, and recovering the methallyl halide as the desired product.

2,642,465

METHOD AND APPARATUS FOR CRYSTALLIZING NAPHTHALENE

George J. Haddad and Joseph H. Wells, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey

Application January 5, 1949, Serial No. 69,368
2 Claims. (Cl. 260—674)



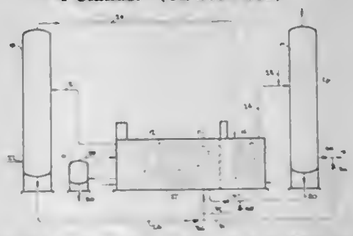
2. In a method of producing naphthalene crystals, the steps including maintaining a pool of liquid containing dissolved naphthalene on both sides of a substantially vertical partition dividing the pool except at the top and bottom thereof, withdrawing liquid upwardly from one side of the pool about midway of the depth thereof, cooling the withdrawn liquid and returning the cooled liquid upwardly to the other side of the pool at a point below the level at which liquid is withdrawn, thereby maintaining circulation downwardly on said one side and upwardly on the other side, adding fresh solution to the pool adjacent the top thereof on said other side and collecting the crystals formed in the liquid, by gravity settling to the bottom of the pool.

2,642,466

PRODUCTION OF OLEFINIC HYDROCARBONS

Philip James Garner, Hooton, Wirral, and Sidney Edgar Miles, Mold, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application June 9, 1950, Serial No. 167,052
In Great Britain July 28, 1949
4 Claims. (Cl. 260—683)

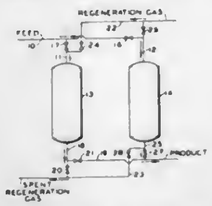


1. In the process for producing olefinic hydrocarbons by vapor phase thermal cracking of waxy hydrocarbons wherein a paraffin wax-containing material is vaporized substantially at a temperature below about 500° C. and without substantial cracking thereof and thereby is separated from

a difficultly vaporizable fraction and the vaporized portion is subjected to thermal cracking in the presence of steam at a temperature in the range of from about 500° C. to about 600° C., the improvement which comprises the steps of subjecting at least a substantial portion of the separated difficultly vaporizable fraction to a thermal soaking at from about 390° C. to about 450° C. for a period of time of from about ¼ of an hour to about 4 hours, thereafter subjecting it to the aforesaid vaporizing operation, and subjecting the resulting vaporized portion to the aforesaid vapor phase thermal cracking operation.

2,642,467
PRODUCTION OF HIGH OCTANE FUEL COMPONENTS
John Paul Hogan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 11, 1950, Serial No. 161,391
13 Claims. (Cl. 260—683.15)

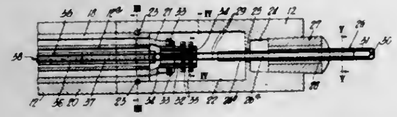
1. A process for the production of hydrocarbons hydrogenatable to high octane rating fuel components which comprises polymerizing 2-butene with isobutene in a mol ratio in the range of 5:1 to 14:1 in contact with a silica-alumina catalyst promoted with an oxide of the group nickel oxide and cobalt oxide, continuing the polymerization until the activity of the catalyst and



yield of polymer have appreciably decreased, thereafter increasing the mol ratio of 2-butene to isobutene to the range of 18:1 to 25:1 and continuing the reaction until catalyst deactivation renders further contacting uneconomical, and recovering polymer desirable for hydrogenation.

ELECTRICAL

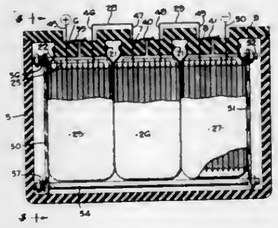
2,642,468
THERMOCOUPLE MOUNTING FOR USE IN MOLTEN STEEL
Jaydee I. Dodson, Chicago, Ill., assignor to United States Steel Corporation, a corporation of New Jersey
Application September 15, 1950, Serial No. 185,073
7 Claims. (Cl. 136—4)



1. A thermocouple mounting comprising an outer pipe, an inner pipe extending into one end of the outer pipe and to a point adjacent the other end thereof, a metal head removably fitted on said other end of the outer pipe, said head having a bore at one end to receive said outer pipe and a tapered bore in the other end, a refractory plug in said tapered bore, a thermocouple tube extending through said plug, thermocouple elements in said tube extending therefrom through said head to a point adjacent said other end of said outer pipe, leads extending through said inner pipe and means mounted on the end of the inner pipe adjacent said other end of the outer pipe for detachably securing said elements to said leads.

2,642,469
ALKALINE BATTERY
Wright W. Gary, Jr., Pasadena, Calif.
Application October 30, 1950, Serial No. 192,873
9 Claims. (Cl. 136—28)

1. A battery cell construction of the alkaline type comprising a plurality of interposed positive and negative plates, said positive plates including an individually sealed envelope of porous membrane, thin layers of nickel hydroxide hydrogel in a soft plastic mass covering substantially the entire internal surface of said membrane, a foil conductor between said hydrogel layers and extending externally of said envelope, said negative plates being interposed between said positive plates and including an individually sealed envelope of porous membrane, thin layers of cadmium oxide covering substantially the en-



tire internal surface of said membrane, and a thin foil between said cadmium oxide layers and extending externally of said envelope, the outer surfaces of said membranes of said positive plates being in contact with the outer surfaces of said negative plates.

2,642,470
DRY CELL
Otto Karl Reinhardt, West Haven, and Jay Y. Welsh, Hamden, Conn., assignors to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware
Application June 7, 1951, Serial No. 230,391
3 Claims. (Cl. 136—133)

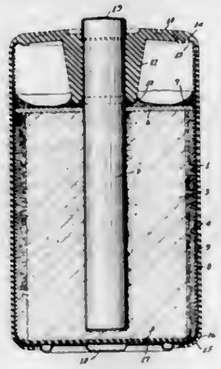
1. A leak-resistant dry cell comprising a metal can forming an anode, a cathode and a depolarizing mix arranged in the can, the cathode projecting from the top of the can, a metal disc covering the bottom of the can, a jacket surrounding the can having its lower edge crimped to the disc, a washer arranged in the can above the depolarizing mix, a layer of material capable of being softened by heat on said washer, and a closure member comprising a disc having a central opening, the closure member

having depending collars at the periphery and surrounding the central opening adapted to be



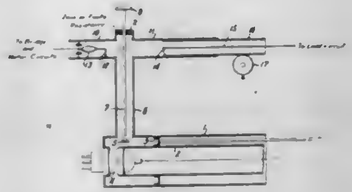
embedded in the material on the washer, and means for retaining the disc in position.

2,642,471
DRY CELL
Otto Karl Reinhardt and Thomas C. Stapleton, West Haven, Conn., assignors to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware
Application June 7, 1951, Serial No. 230,392
3 Claims. (Cl. 136—133)



1. A leak-resistant dry cell comprising a metal can forming an anode, a cathode and a depolarizing mix arranged in the can, the cathode projecting from the top of the can, a washer arranged in the can above the depolarizing mix, a layer of material capable of being softened by heat on said washer, a plastic jacket surrounding the can, the lower edge of the jacket being turned in over the bottom of the can and adhesively secured thereto, a closure disc formed integrally with the jacket, the closure disc having a central opening for the passage of the cathode, and a collar depending from the closure disc around the central opening and adapted to be embedded in the layer of sealing material.

2,642,472
MONITORED POWER OUTPUT SYSTEM FOR RESONATOR CAVITIES
Gordon P. McCouch, Mountain Lakes, N. J., assignor to Aircraft Radio Corporation, Boonton, N. J., a corporation of New Jersey
Application September 29, 1948, Serial No. 51,825
9 Claims. (Cl. 171—95)

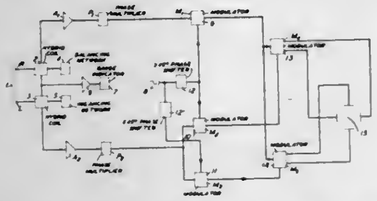


1. A monitored power output system for a resonator cavity having an opening in a wall thereof; said power output system comprising a stem tube having an open end adapted to be seated over the opening in the wall of a resonator cavity, a conductor coaxial with said stem tube and forming therewith a coaxial transmission line, an electrical termination for the end of said transmission line remote from the resonator cavity, said conductor being axially adjustable in said electrical termination and carrying a pickup element for coupling said transmission line to the resonator cavity, a pair of branch tubes of identical cross-section opening into said stem tube adjacent to and symmetrically located with respect to said electrical termination, each of said branch tubes constituting a waveguide below cutoff over the frequency range of wave-fields to be developed in the resonator cavity, pickup elements of the same type and having substantially identical frequency characteristics located in the respective branch tubes for delivering power through coaxial transmission lines to a power meter and a load respectively, the pickup element feeding the power meter being fixed in its branch tube, means supporting the pickup element of the other branch tube for adjustment longitudinally thereof to vary the power delivered to the load, and means for indicating the power delivered to the load; said indicating means comprising a graduated dial element and a fiducial mark element, one of said elements being stationary and the other being connected to said supporting means for adjustment thereby.

2,642,473
WAVE TRANSLATING SYSTEM
John G. Kreer, Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 7, 1944, Serial No. 567,055
4 Claims. (Cl. 172—245)

1. A system for indicating the phase difference between two voltages V_1 and V_2 of given frequency, comprising five modulators A, B, C, D and E, means for supplying V_1 to A and supplying V_2 to B and C, means for supplying to A and B a carrier voltage of frequency different from said given frequency and supplying to C said carrier voltage with a phase shift of ninety degrees, means for supplying to D and E a sideband voltage from A, means for supplying a sideband voltage of the same frequency from B as a

carrier voltage to D and supplying a sideband voltage of said same frequency from C as a carrier



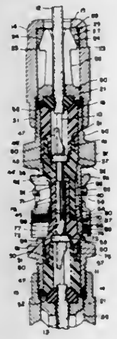
voltage to E, and means responsive to the outputs of D and E for indicating said phase difference.

2,642,474

ELECTRICAL CONNECTOR

Earl C. Bowar, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application September 14, 1949, Serial No. 115,652
5 Claims. (Cl. 339—107)



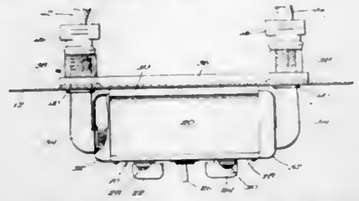
1. An electrical connector comprising in combination: a shell; a ferrule having one end to be joined to said shell, the end of the ferrule remote from the shell being turned inwardly to form an annular abutment; an actuator having a frusto-conically shaped inner surface at the inwardly turned portion of the ferrule; a pair of insulators carried by said shell and provided with a centrally extending contact, the insulators completely containing the contact, one of said insulators having an annular tongue at one end thereof and the other insulator having an annular groove at one end thereof for cooperating with the tongue on said one insulator; and a collet, one portion of which is frusto-conical in shape and the balance cylindrical and having a plurality of slots extending substantially the length of the collet, said collet being confined within said ferrule with the frusto-conical portion of said collet adjacent the inner surface of the actuator such that joining said shell and said ferrule together causes the collet to firmly grip a conductor entering said connector, seat the tongue and groove connection between the insulators to effect a fluid tight seal therebetween, permit an even distribution of mechanical stress against the sides of the groove and provide a substantially long electrical leakage path between said shell and said conductor.

2,642,475

UNIVERSAL HEAD MOUNTING HAVING A RESILIENT POSITIONING PAD

Charles E. Beck, Park Ridge, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application June 21, 1949, Serial No. 100,455
5 Claims. (Cl. 174—48)



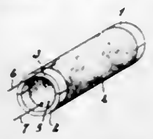
1. Apparatus for mounting a first member on a second member wherein one of the members has a convex cylindrical face portion opposed to a face portion of the other member, said apparatus including, supporting means pivotally connected to said one member along an axis substantially coinciding with the geometrical axis of said cylindrical face portion and supported on said other member, and an elongated resilient mounting strip positioned between the cylindrical face portion of the one member and the opposed face portion of the other member, said strip having thick gripping portions engaging the opposed face portions and a thin intervening portion, said supporting means being adjustable in a direction substantially perpendicular to said pivotal axis for drawing the opposed face portions toward each other so that said gripping portions are compressed and frictionally engage the face portions of the members to restrain said one member from turning relative to said other member.

2,642,476

COMBINATION OF AT LEAST TWO CONDENSERS ELECTRICALLY CONNECTED IN PARALLEL

Roelof Dirk Bügel, Gerard Heinrich Jonker, and Jan Heinrik van Santen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 4, 1948, Serial No. 42,496
In the Netherlands August 12, 1947
5 Claims. (Cl. 175—41)



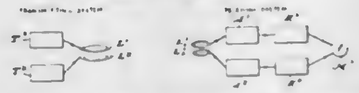
1. A capacitor assembly comprising two capacitors electrically connected in parallel, each of said capacitors comprising a pair of electrodes and a dielectric therebetween consisting of a titanate of an alkaline earth metal exhibiting a perovskite structure, said dielectrics each having different peak-dielectric constant temperatures within a given range of temperatures, said capacitors each having a temperature-capacitance characteristic at which the capacitance of the assembly throughout a temperature range exceeding said given range is greater than the peak capacitance of either of said capacitors.

2,642,477

METHOD FOR INDUCTIVE PROSPECTING

Maunu Puranen and Aarno Assar Kahma, Helsinki, Finland

Application August 11, 1948, Serial No. 43,783
In Finland September 8, 1947
10 Claims. (Cl. 175—182)



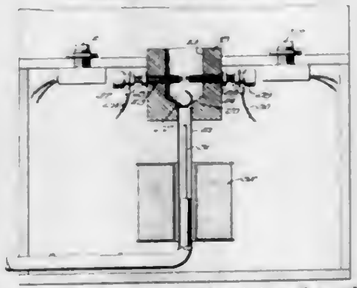
1. A method for measuring the anomalies caused by ores, or other conductive geological formations, in a principal frequency electromagnetic field which comprises generating a principal frequency field, generating a field with markedly different frequency than the principal frequency, all said fields propagating from a transmitting point to a receiving point, modulating the amplitude of the different frequency field by means of the principal frequency field, the different frequency field thus being a carrier for a principal frequency signal, keeping the radio between the amplitudes of the principal frequency and the different frequency field constant at the transmitting point, the relationship between the two transmitted fields with respect to the relationship between the two received fields being maintained constant, the ratio between amplitudes of the different frequency and principal frequency field at the receiving point determining the amplitude anomaly of the principal frequency field, whereby owing to the frequency of the different frequency field and to the said constant relationship of transmitted fields the errors which would arise without these arrangements due to changes in relationship between said fields are automatically eliminated, and comparing the phase of the voltage induced by the principal frequency field with the phase of another principal frequency voltage which is obtained by demodulating the different frequency voltage generated by the different frequency field to obtain the phase anomaly of the principal frequency field.

2,642,478

WATER DETECTOR

Wayne E. Lasky, Bloomington, Ill., and Russell W. Seniff, Baltimore, Md., assignors of one-fourth to Melvin A. Hanson and one-fourth to Harry E. Frank, both of Bloomington, Ill.

Application December 29, 1949, Serial No. 135,656
3 Claims. (Cl. 175—183)



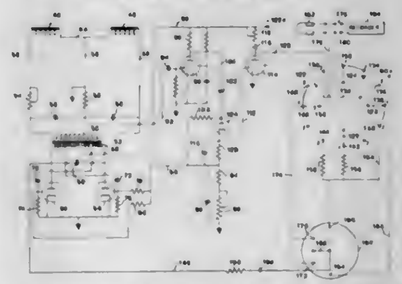
1. An apparatus for determining the relative amount of water in petroleum oil which comprises a receptacle for said oil, a pair of spaced electrodes within said receptacle arranged for immersion within the oil being tested, means for electrically energizing said electrodes, indicating means for registering variations in current flow between said electrodes, a conduit connected to a source of vacuum extending from said receptacle, a ball seated at the base of said receptacle, a plunger within said conduit for unseating said ball, and a solenoid for moving the plunger into engagement with said ball to unseat the same and draw oil from said receptacle into said conduit.

2,642,479

DEVICE FOR DETECTING OR MEASURING MAGNETIC FIELDS

Jack Weir Jones, Chester, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application January 5, 1948, Serial No. 488
7 Claims. (Cl. 175—183)



1. A magnetic field sensing device comprising an impedance bridge having in two of its arms a pair of coils provided with parallel saturable cores and in at least one arm a variable impedance, means providing to said bridge an alternating current of a magnitude producing saturation of said cores, output connections from said bridge, said variable impedance being adjustable to provide under conditions of approximate balance of the bridge an alternating output through said connections having a substantial odd harmonic content characterized by peaks, and a circuit fed by said output connections and giving indications of peak amplitude of only one side of said alternating output, thereby providing a response to variations of an even harmonic content of said output due to variations of the ambient magnetic field threading said cores.

2,642,480

INDICATOR FOR EUTECTIC COOLERS

Ralph Ernest John Shave, London, England, assignor to J. Stone & Company Limited, London, England, a corporation of Great Britain

Application August 12, 1949, Serial No. 109,865
In Great Britain September 9, 1948
5 Claims. (Cl. 175—183)



1. Apparatus for determining the reserve cold storage of an eutectic contained in a vessel, comprising a pair of electrodes spaced apart in the vessel in contact with the eutectic therein, a source of electric current connected in circuit

with said electrodes so as to transmit current between said electrodes through the eutectic, and an electric measuring device dependent on the resistance to flow of current in said circuit through the eutectic for indicating at any time the cold storage reserve in the eutectic, said electrodes being located on opposite sides of the vessel so that the condition of the eutectic as a whole is reflected in the indication given by said measuring device.

2,642,481
MEANS AND METHOD FOR TESTING TERMINAL BANKS
James Haynes Wilson, Summit, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 23, 1949, Serial No. 117,424
8 Claims. (Cl. 175—183)

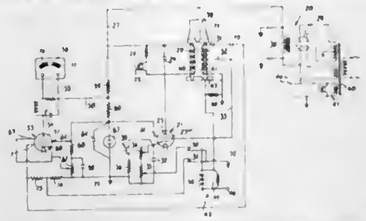


1. Apparatus for testing the conductivity between conductors of a first and a second group of conductors, the conductors of said second group terminating in adjacent, mutually insulated terminals, comprising a source of electrical potential having a pair of terminals of opposite polarity, electrically conducting means for connecting one of said source terminals simultaneously to the conductors of the first group, a member, a conductive surface on said member complementary to the surface formed by the terminals of the second group of conductors and connected to the other terminal of said source and a sheet interposed between said conducting surface and said terminals, said sheet being of a material permitting transverse current flow therethrough and adapted to permanently indicate the points of such current flow between the conductor terminals and said conducting surface.

6. The method of simultaneously testing the conductivity of a plurality of circuits having individual outlets which comprises the steps of connecting said circuits in common at points remote from said outlets, placing one side of a strip of current-sensitive material against said outlets, impressing a potential difference between said connected points and the other side of said strip to simultaneously graphically record the passage of the amount of current through said outlets, removing said strip, and disconnecting said common connection.

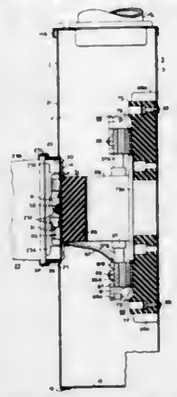
2,642,482
ELECTRONIC BIT TESTER
Robert Sidney Segsworth, Toronto, Ontario, Canada
Application January 31, 1950, Serial No. 141,454
5 Claims. (Cl. 175—183)

1. In a device for comparatively testing the hardness of magnetically permeable test samples of similar dimensional characteristics and employing an electronic circuit including an oscillator tube having at least a plate, a grid, and a cathode, and magnetic coupling means between the circuit of the plate and the circuit of the grid, the combination therewith of, a primary coil in the plate circuit and a secondary coil in the grid circuit including pole pieces associated with each of said coils and forming said magnetic coupling means, said pole pieces being shaped to contact surfaces of a test sample of magnetically permeable material, means associated with said primary coil providing a predetermined frequency of resonance of less than 60 cycles per second in the plate circuit, means for biasing said grid to provide oscillation in said oscillator when the test sample is in physical contact with said pole pieces, and a voltage measuring device including an amplifier tube coupled to the grid circuit of said oscillator tube, said voltage amplifier having an electronic tube including at least a grid, a plate, and a cathode,



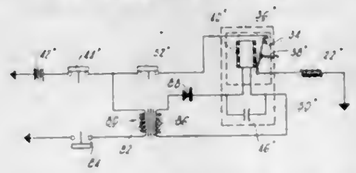
and adjustable grid biasing means for said amplifier grid whereby the current flowing through said amplifier tube may be adjusted to zero when a test sample is disposed outside the effective magnetic field of said pole pieces, and means for controlling the biasing of the grid of said oscillator tube when the test sample is so disposed to sustain oscillations in said oscillator whereby said voltage measuring device is responsive to the increase in voltage developed in the grid circuit of said oscillator when the test sample is placed in physical contact with said pole pieces to close the magnetic circuit of said coils.

2,642,483
MOUNTING FOR ELECTRICAL INSTRUMENTS
George J. Wey, Jersey City, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 6, 1951, Serial No. 245,391
12 Claims. (Cl. 175—298)



1. In a device for receiving an electrical instrument having first terminal means, an enclosure having a base section and a cover section, second terminal means in the enclosure to be connected to the first terminal means of an electrical instrument associated with the enclosure, transformer means positioned in the enclosure, said transformer means having primary leads, connector means positioned within the enclosure, said connector means including first auxiliary connection means accessible when the cover section is removed from the base section for releasably receiving said primary leads and second auxiliary connection means electrically connected to the first auxiliary connection means for receiving conductors to which the primary leads are to be connected, said transformer means having secondary terminals connected to the second terminal means, whereby an electrical instrument may be connected through the first and second terminal means to the secondary terminals.

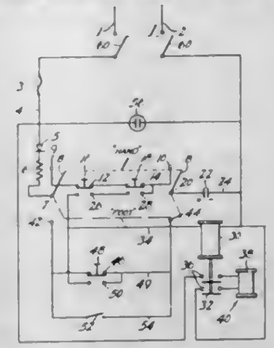
2,642,484
SWITCH CONTROL MECHANISM
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 29, 1950, Serial No. 187,465
2 Claims. (Cl. 175—320)



1. Mechanism for controlling the time of closing of a switch including power means comprising a power element operably connected to the switch, means for energizing the power means including a source of power, control means for the source of power including an intermittently operable mechanically operated movable member, a control member operably connected to the movable member, means, rendered operable by an operation of the control means when and only when said control member is performing its operation, for effecting an energization of the power means; together with a supplementary means for effecting an energization of the power means said supplementary means being also controlled by an operation of the control means.

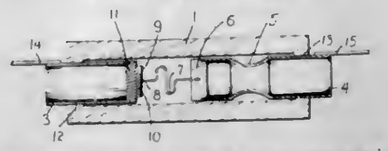
2,642,485
ELECTRIC CONTROL DEVICE
Willard L. Geiger, Tonawanda, and George A. Wescott, Jr., Kenmore, N. Y., assignors to Tronics, Inc., Buffalo, N. Y.
Application June 8, 1949, Serial No. 97,762
7 Claims. (Cl. 175—320)

6. In a control device, a source of electric potential having a direct component, a condenser, a work circuit having an input, control means for alternately connecting said condenser to said source for charging and to said work circuit for energization of the latter, said control means comprising hand switch circuit means and foot switch circuit means, each said switch circuit means having normally closed switch means and an alternately closable normally open switch means, selection means electrically connected for alternately employing said hand switch circuit means and said foot switch circuit means in said control means, a condenser charging circuit comprising said source and said selection means and the normally closed switch means of the switch circuit means employed in said control means by said selection means and said condenser in series, and a work circuit energizing circuit comprising said condenser and said selection means and the normally open switch means of the switch circuit means employed in said control means by said selection means and said input of said work circuit in series, and optionally closable direct current shunt means electrically connected across said normally closed



switch means of at least one of said switch circuit means for connecting said condenser to said source independently of the thereby shunted normally closed switch means, whereby such shunting of a normally closed switch means to provide unlimited energization of said work circuit in parallel with said condenser is provided on an individual switch circuit means basis so as to provide for unlimited operations only in the switch circuit means desired.

2,642,486
ELECTRICAL CRYSTAL UNIT
Charles J. Ryan, Medford, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application August 25, 1948, Serial No. 46,043
4 Claims. (Cl. 175—366)

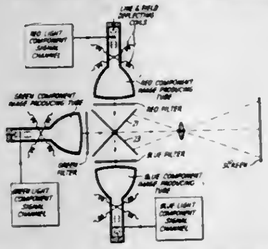


1. A semi-conductor crystal unit comprising a tubular glass envelope, a metal sleeve sealed at one end thereof to close off the same, a semi-conductor crystal attached to said sleeve, a beaded metal sleeve sealed to the other end of said envelope to close off the same, and a cat-whisker contact for said crystal attached to said beaded sleeve and capable of adjustment by deformation of the sleeve where beaded.

2,642,487
COMPONENT COLOR SEPARATOR
Alfred C. Schroeder, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1947, Serial No. 731,647
1 Claim. (Cl. 340—370)

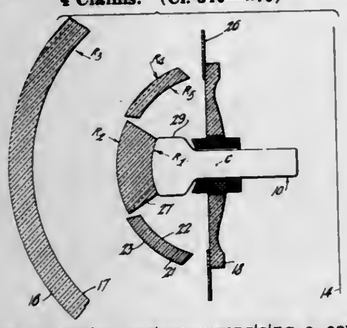
In a color television system, an optical system comprising in combination a lens, a pair of intersecting dichroic reflectors, one of said reflectors of the type which reflects only blue light

and the other of said reflectors of the type which reflects only red light, each of said intersecting dichroic reflectors positioned to extend on both



sides of the other intersecting dichroic reflector, a plurality of electron targets all cooperatively positioned with said dichroic reflectors to be in the similarly color designated light path.

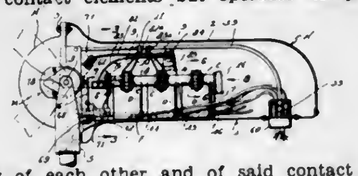
2,642,488
SCHMIDT TELEVISION PROJECTOR HAVING MENISCUS TO CORRECT FOR ANTIHALATION LENS
David W. Epstein, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 3, 1949, Serial No. 68,878
4 Claims. (Cl. 340—370)



2. A projection system comprising a concave spherical mirror, a correcting plate positioned to transmit light reflected from said spherical mirror, a projection tube for projecting light to said mirror, a viewing screen receiving light in the form of a readily perceptible image transmitted by said correcting plate, an antihalation lens for said tube optically bound by inner and outer concentric spherical surfaces, said inner and outer spherical surfaces having radii of such relative length that the light produced upon excitation of any point on the luminescent tube screen is transmitted by the outer surface of the antihalation lens without total reflection, and a meniscus positioned in the optical path between said mirror and said correcting plate said meniscus being substantially concentric with said spherical mirror, whereby to eliminate error introduced by said antihalation lens.

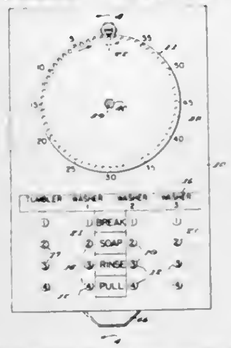
2,642,489
VEHICLE DIRECTION SIGNAL
Lee Twist, Huntington Park, Calif.
Application March 6, 1950, Serial No. 147,800
7 Claims. (Cl. 340—128)

6. In a vehicle direction signalling apparatus, in combination with a signal arm and a vacuum motor for moving said arm to different signalling positions, a plurality of contact elements coaxially mounted for rotative movement together in a signalling operation, a corresponding number of actuators coaxially mounted relative to each other and paired with said contact elements but operable independ-



ently of each other and of said contact elements, a solenoid associated with and adapted to operate each actuator, said solenoids operatively connecting said actuators respectively with and for activating said motor in accordance with the operation of a particular actuator when a corresponding solenoid is energized.

2,642,490
CLOCK CONTROL TIME PERIOD SIGNAL DEVICE
Ashbourne D. Capehart, Oxford, and Edward A. Hines, Henderson, N. C.
Application November 17, 1950, Serial No. 196,327
3 Claims. (Cl. 340—324)

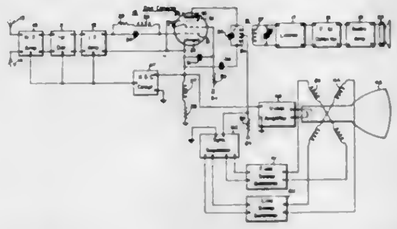


1. A time period indicator comprising a box like housing having a chart on the face thereof, said chart having rows of areas corresponding with different machines indicated thereon, pins positioned in said areas, a disc journaled on the panel and positioned on the face thereof, said panel having time periods thereon positioned around the disc and said sections of the chart being spaced to correspond with said time periods positioned around the disc, means rotating the disc at a predetermined speed, a signal, a mercury switch mounted on the panel and positioned to be actuated by a pin on the disc, means temporarily mounting said pins at different points on the disc, and a circuit connecting the mercury switch and the signal to a source of power.

2,642,491
TELEVISION RECEIVER
Albert Cotsworth III, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application January 27, 1950, Serial No. 140,938
3 Claims. (Cl. 178—5.8)

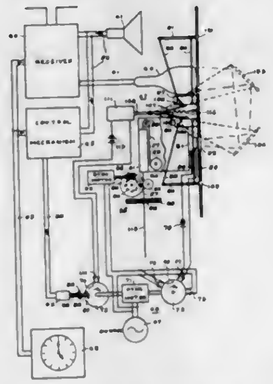
1. In a television receiver for concurrently utilizing a first carrier-wave signal amplitude-

modulated with video and synchronizing components and a second carrier-wave signal frequency-modulated with sound components and frequency displaced from said first signal by a predetermined amount; an amplitude-modulation detector including an electron-discharge device having an anode, a cathode and a control electrode; an input circuit connected between said control electrode and cathode for applying said first and second signals to said detector; a video load impedance connecting the junction of said input circuit with said cathode to a point of reference



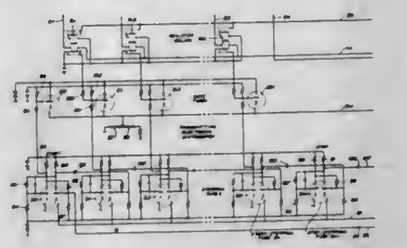
potential for deriving said video components for application to an image-reproducing device; a further circuit connecting said anode to the junction of said input circuit with said cathode and including a tuned circuit resonant to a heterodyne component of said first and second signals for deriving an inter-carrier signal frequency-modulated with said sound components; and a synchronizing load impedance connecting said anode to said point of reference potential for deriving said synchronizing components for application to a synchronizing system associated with said reproducing device.

2,642,492
TELEVISION TYPE FACSIMILE TRANSMISSION SYSTEM
John Hays Hammond, Jr., Gloucester, Mass.
Application December 11, 1948, Serial No. 64,808
5 Claims. (Cl. 178—6.7)



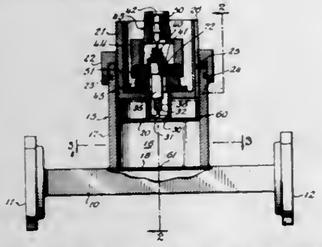
1. A system for utilizing television type transmission for the facsimile transmission of a still picture during a time pause in the transmission of a television program, comprising a television transmitter including a television camera adapted to scan an image for transmission to a remote point, a television receiver including a kinescope having a screen on which the image is reproduced, a photographic camera containing a sensitized film normally disposed out of the path of the rays from said screen, a normally inoperative optical system, means at said transmitter to produce a predetermined control signal, means at the receiver responsive to said control signal to shift said optical system into a position to direct the rays from said screen onto said photographic camera, shutter control means for said photographic camera, timed means responsive to said control signal to actuate said shutter control means for photographing the image on said screen onto said sensitized film, processing means for said film and timed means for advancing the exposed film from said camera through said processing means.

2,642,493
AUTOMATIC MESSAGE ACCOUNTING SYSTEM
George A. Locke, Glenwood Landing, and Allan Weaver, Port Washington, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 27, 1947, Serial No. 731,396
8 Claims. (Cl. 178—17.5)



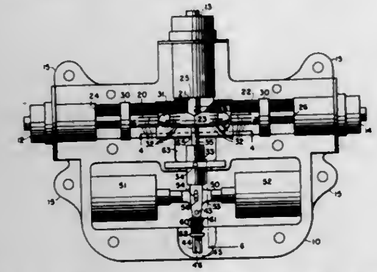
8. In a recording system, in combination with registering means recurrently settable to register a signal, a first means operative in response to a setting of said registering means for producing time-spaced electrical impulses, means jointly responsive to a setting of said registering means and to the operation of said first impulse-producing means for marking a combination of said impulses to indicate said signal, a second means operative to produce electrical impulses which are coordinated in time with the impulses produced by said first impulse-producing means, means responsive to the coincidence of each marked impulse in said selected combination of impulses with corresponding impulses produced by said second impulse-producing means to indicate said signal, means for storing selective conditions corresponding to said combination of coincident impulses, a recording device responsive to said storing means for recording said selective conditions, and electronic means responsive to said second impulse-producing means for releasing said latter means and for sustaining the operation of said recording device until all of said stored selective conditions have been recorded, said second impulse-producing means being operative during the sustained operation of said recording device under the control of said electronic means to produce impulses coincident with another selected combination of impulses produced by said first impulse-producing means in response to a succeeding setting of said registering means to register another signal.

2,642,494
MODE SUPPRESSING COUPLING FOR CAVITY WAVEMETERS
Sam Zaslavsky, Jackson Heights, and Martin Zanichkowsky, Brooklyn, N. Y., assignors to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application May 26, 1948, Serial No. 29,367
1 Claim. (Cl. 178—44)



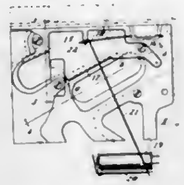
A cylindrical cavity resonator wave meter having a first end wall and a second end wall, one of said walls being movable toward and away from the other, said movable wall being keyed to the cylindrical wall of the resonator to prevent relative rotation therebetween, said movable wall portion being externally threaded, a rotatable threaded nut longitudinally fixed on the cylindrical wall of said resonator and threadedly engaging said movable wall portion, said first end wall having an elongated slot centrally located therein for admitting electromagnetic energy to said resonator to excite it in the TE_{111} mode, means including a coupling loop substantially centrally located in said second end wall and fixedly oriented in a plane perpendicular to the longitudinal axis of said elongated slot for selectively responding to energy at the resonant frequency of said resonator in the TE_{111} mode coupled through said slot, said coupling loop being fixed in its orientation about the axis of said resonator but being movable along the axis with movement of said movable wall in response to angular adjustment of said nut.

2,642,495
COAXIAL TRANSMISSION LINE SWITCH
Clyde Austin Hauman, Hyattsville, Md., and Daniel J. Hilferty, deceased, late of Riverdale, Md., by Ethel M. George, executrix, Riverdale, Md.
Application August 21, 1947, Serial No. 769,966
4 Claims. (Cl. 178—44)
(Granted under Title 35, U. S. Code (1952), sec. 266)



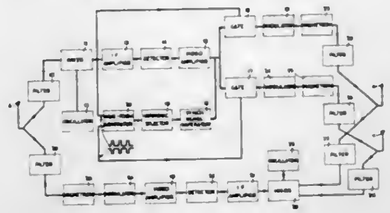
4. A switch comprising two coaxial transmission line coupling elements having outer conductors joined in a substantially unbroken connection and having inner conductors terminating in spaced relationship, a third coaxial transmission line coupling element having an outer conductor in substantially unbroken connection with the two outer conductors and comprising a hollow inner conductor spaced between said first two inner conductors, a reciprocally movable conductor contained within said hollow conductor and movable to contact either of said first two inner conductors selectively, and a non-conducting actuating member operable to move said movable conductor.

2,642,496
TELEPHONE PAY STATION COIN BOX SYSTEM
James Ross Dewar, Rochester, N. Y.
Application February 16, 1950, Serial No. 144,540
9 Claims. (Cl. 179—6.5)



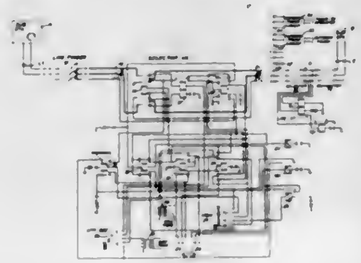
9. In a telephone pay station, a coin box having slots of different sizes respectively to receive coins of different denominations including a five cent coin, a coin chute leading downward from each slot, a coin hopper into which said chutes discharge their coins, a selectively operable coin abeyance trap to which coins are delivered by said hopper, means for operating said trap, mechanism associated with the five cent coin chute for normally diverting a five cent coin therefrom prior to its arrival at said hopper, and means actuated from a remote point for operating said mechanism to enable a five cent coin to travel along the five cent coin chute to said coin hopper.

2,642,497
MULTICHANNEL PULSE SIGNALING SYSTEM
Maurice Moïse Levy, Ottawa, Ontario, Canada, assignor to The General Electric Company Limited, London, England
Application November 18, 1950, Serial No. 196,454
In Great Britain November 21, 1949
3 Claims. (Cl. 179—15)



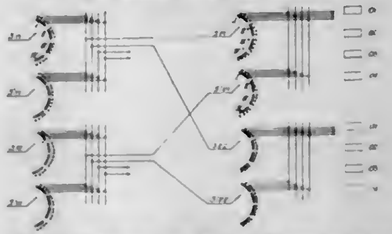
1. In a multi-channel pulse signalling system of the type in which the intelligence of each channel is conveyed by pulse signals occurring in recurrent channel intervals and in which one channel carries a synchronizing signal, an arrangement for dropping $(n—r)$ channels from a group of n received interlaced channels, where n/r is an integer, said arrangement comprising means for selecting the synchronising signal from the received signal, means for applying the synchronising signal to generate pulses having a recurrence frequency which is r times the channel recurrence frequency, said generated pulses being of substantially rectangular waveform and each having a duration equal to approximately one channel interval, and a gating device to which the generated pulses are applied as a gating signal to permit to pass through the gating device only the pulse signal in respect of the r channels to be retained.

2,642,498
DIAL TELEPHONE SYSTEM-DIGIT ABSORBING SELECTOR CIRCUIT
George Riddell, Brooklyn, N. Y., and Harold A. Soucy, Fort Worth, Tex., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 8, 1950, Serial No. 178,262
3 Claims. (Cl. 179—18)



1. In a digit impulse controlled group selector switch of the two-motion step-by-step type comprising digit impulse controlled means for stepping the switch wipers to select a desired level of the terminal bank and means for advancing the wipers in a selected level to hunt for and select a set of terminals connected to an idle trunk, two separately operable sets of normal post springs, cam means for actuating one of said sets of springs on a switch level corresponding to a first particular digit value, cam means for actuating the other of said sets of springs on a switch level corresponding to a second particular digit value, cam means for simultaneously actuating both of said sets of springs on a switch level corresponding to a third particular digit value, means comprising a rotary stepping magnet rendered effective by actuation of said one set of springs for advancing the wipers of said switch to the eleventh rotary position, means comprising a release magnet rendered effective by actuation of said other set of springs for effecting the return of the wipers to normal without trunk hunting, and means comprising said rotary stepping magnet rendered effective by the simultaneous actuation of both of said sets of springs for causing trunk hunting in the level corresponding to the next train of digit impulses incoming to the selector irrespective of whether either one or both or neither of said sets of springs are actuated.

2,642,499
ROUTE-SELECTING AUTOMATIC TELEPHONE SYSTEM
Fernand P. Gohorel, Antony, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 8, 1947, Serial No. 778,657
In France August 27, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires August 27, 1966
11 Claims. (Cl. 179—18)

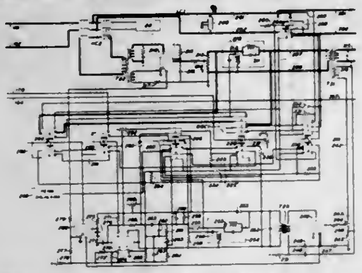


1. In an automatic telephone system in which a plurality of first and second selectors and outgoing trunks are provided and the access to said outgoing trunks is increased by distributing the trunks from a given level of the first selectors over groups of second selectors, each of which has access to different outgoing trunks at a given level, and in which means is provided for seizing one of said first selectors, the combination comprising a first marker adapted to be set in response to incoming pulses received by a seized first selector to register a called number, sources of signals, means controlled by the idle or busy condition of the outgoing trunks for applying signals from said sources to test terminals of said seized first selector, said signals indicating which groups of said outgoing trunks, available to said first selector through second selectors, have at least one idle outgoing trunk, means for starting a hunting operation of said first selector in response to the seizure thereof, means in said first marker responsive to said signals for causing said first selector to stop when the wipers thereof rest on terminals having access through a second selector to a desired group of outgoing trunks containing an idle outgoing trunk and thus to seize a second selector, a second marker connected to the thus selected terminals of said seized first selector, and means in said first marker and controlled by the setting thereof for causing said second marker to mark the desired group of trunks in the terminals of said seized second selector.

2,642,500
VOICE FREQUENCY SIGNALING CIRCUIT
Walter W. Fritschi, Manhasset, Robert O. Soffel, Hastings on Hudson, and Allan Weaver, Port Washington, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1952, Serial No. 285,354
11 Claims. (Cl. 179—84)

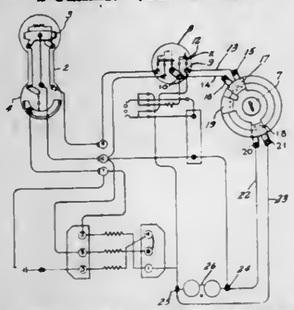
1. In a signaling system in which current of a particular frequency within the voice band is used to effect transmission of signals, a signal receiver comprising means for amplifying incoming currents, signal and guard tuned networks connected in the amplifier output circuit, the signal network being antiresonant and the guard network series resonant at the signal frequency, means idividual to each of said networks for separately rectifying the voltages across said

networks, two signal responsive relays, electronic means individual to and controlling the operation



of each of said relays, and means for combining said rectified voltages and applying the resultant voltage to both of said electronic means.

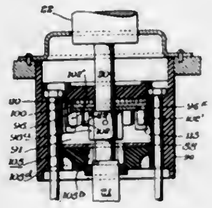
2,642,501
TELEPHONE LOCK
Arthur L. Hall and Harry B. Dyer, Tampa, Fla.; said Dyer assignor to said Hall
Application March 24, 1950, Serial No. 151,614
2 Claims. (Cl. 179—189)



1. In a telephone subscriber's station apparatus of the type having a handset incorporating a transmitter and receiver, a dial having pulsating contacts, a ringer and a handset-operated switch for selectively connecting said ringer across said line in one position of said switch and for connecting said pulsating contacts across said line in another position of said switch, the improvement which comprises a switch having two pairs of fixed contacts and a movable contact-shunting element having portions arranged to shunt selectively either, neither and both of said pairs of fixed contacts, one pair of said fixed contacts being connected across said pulsing contacts and the other pair of said fixed contacts being connected across said ringer, and means for moving said contact-shunting element to any of its selective positions.

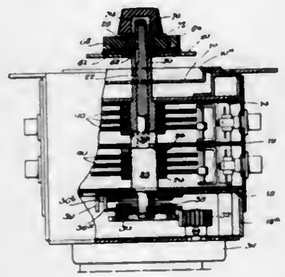
2,642,502
ROTARY SELECTOR SWITCH WITH BIAS
David W. Johnson, New Britain, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application December 17, 1951, Serial No. 261,934
7 Claims. (Cl. 200—4)

1. In an electric switch, a shaft, means for manually moving said shaft rotatively and axially, fixed means to lock said shaft against rotation when the shaft is in one axial position, positioning means fixed on the shaft and engageable with said locking means in said axial position but released from the locking means in another axial position of the shaft permitting rotation of the shaft, fixed and movable contact means, means operated by rotation of the shaft to operate said contact means selectively as said



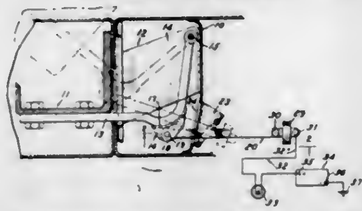
shaft is rotated into angularly spaced positions, yielding means acting to move said shaft toward a certain angular position, and means preventing return of said shaft from a second or third angular position to said certain angular position when said shaft is in said one axial position but allowing rotary movement manually between a second and a third angular position.

2,642,503
ADJUSTABLE MULTIPLE CIRCUIT CONTROL SWITCH
Walter L. Dietrich, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application January 22, 1951, Serial No. 207,207
11 Claims. (Cl. 200—18)



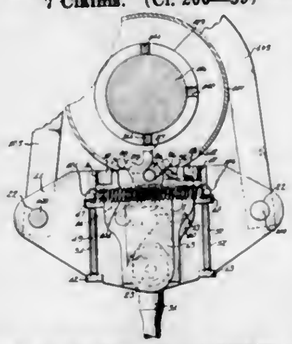
3. In an electric switch rotatable means, contact means, means moved by said rotatable means to operate said contact means, other rotatable means, other contact means, means moved by said other rotatable means to operate said other contact means, said two rotatable means being adjustable relatively to one another, means turning with said first rotatable means and means turning with said other rotatable means, slippage preventing means cooperatively engaging with both said turning means, and a manually engageable member on said first rotatable meanas operable to maintain said slippage preventing means in cooperative engagement with both said turning means and operable to permit rotational adjustment of said turning means with relation to one another.

2,642,504
ELECTRIC CIRCUIT OPERATING DEVICE
Richard C. Hascall, Detroit, Mich.
Application September 27, 1950, Serial No. 187,110
2 Claims. (Cl. 200—54)



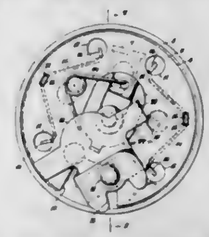
1. A combined door check and switch for use with a door member mounted for swinging movement relative to a stationary frame member, said door check and switch comprising a check arm formed of electrically conducting metal and adapted to be pivotally mounted at one end to one of said members, a guide adapted to be mounted on the other member and having an opening therethrough surrounding and in contact with said check arm, said check arm having a head at its other end engageable with said guide to limit movement of said arm in said guide, said check arm having insulating material inset into its surface with the outer surface of said insulating material flush with the adjacent surface of said arm, and positioned to be interposed between the metal of said arm and said guide when the door is in a first predetermined position, means insulating said check arm from its pivot support, and an electric connection to said check arm to complete a circuit from said arm to said guide when the door is in a second predetermined position in which said inset insulating means is spaced from said guide.

2,642,505
DIRECTIONAL TURN INDICATOR
Ralph W. Hept, Bronson, Mich., assignor to Kingston Products Corporation, Kokomo, Ind., a corporation of Indiana
Application September 13, 1950, Serial No. 184,594
7 Claims. (Cl. 200—59)



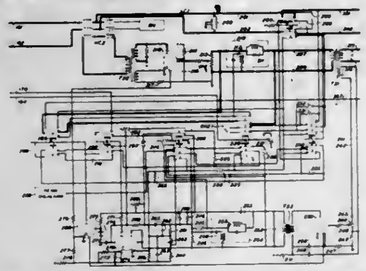
1. In a directional turn indicator switching mechanism cooperable with a steering post having pawl striking means thereon, a frame having means to support the same adjacent the steering post, a plurality of superimposed reciprocable sliding plates mounted on said frame for movement toward and away from the steering post, a pair of said plurality of plates comprising first and second pawl carrying camming plates each having a complexly shaped camming slot therein, a third plate of said plurality of plates comprising a latch plate and having a symmetrically arranged camming slot therein with recessed portions at the opposite ends thereof extending in the direction of reciprocation of said plates, said latch plate being interposed between said camming plates, a driving arm pivotally mounted on said frame and having a camming pin extending through all of said plates and cooperable with each of said camming slots, resilient means normally biasing said driving arm towards a center neutral position, resilient means normally biasing said latch plate toward said steering post, pawl means carried by each of said camming plates, each of said pawl means having a latch plate engaging portion, and means to selectively angularly displace said driving arm in alternative direction, whereby actuation in either direction will cam one of said camming plates together with its pawl means into actuating registry with the steering post, said camming pin being engageable in one of said recessed portions of said camming slot of said latch plate, whereby said latch plate will be biased toward said steering post to seat said camming pin in said recess, said engaging portion of said one pawl means operable upon actuation in a predetermined direction to urge said latch plate away from said steering post, thereby to release said camming pin from said one of said recessed portions of said latch plate, whereupon all of said plates will be restored to neutral position.

2,642,506
SWITCH
George J. Mucher, Rochester, N. H., assignor to Clarostat Mfg. Co., Inc., Dover, N. H., a corporation of New York
Application September 26, 1950, Serial No. 186,864
3 Claims. (Cl. 200—67)



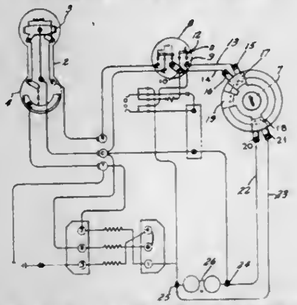
1. A switch including in combination a mounting, a disc, a support disposed centrally of said disc and mounting for pivotally supporting the disc with respect to the mounting, a pair of spaced contacts extending from said mounting towards said disc, said contacts being spaced substantially equally from said central support, contact engaging and bridging arms extending into a plane into which said contacts project, said arms being each disposed to extend tangentially in the direction of disc rotation and having their outer ends diverging and secured substantially against movement with respect to said disc at a point adjacent the periphery of the latter, their inner ends extending towards said central support and at least one of such ends having limited yielding movements with respect to said disc and means for rotating said disc with respect to said mounting to move said arms from a position at which one of said contacts intervenes the space between the same and is substantially bisected by

networks, two signal responsive relays, electronic means individual to and controlling the operation



of each of said relays, and means for combining said rectified voltages and applying the resultant voltage to both of said electronic means.

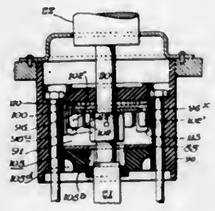
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Arthur L. Hall and Harry B. Dyer, Tampa, Fla.; said Dyer assignor to said Hall
Application March 24, 1950, Serial No. 151,614
2 Claims. (Cl. 179—189)



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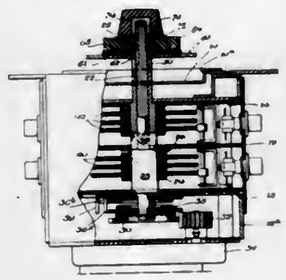
2,642,502
ROTARY SELECTOR SWITCH WITH BIAS
David W. Johnson, New Britain, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application December 17, 1951, Serial No. 261,934
7 Claims. (Cl. 200—4)

1. In an electric switch, a shaft, means for manually moving said shaft rotatively and axially, fixed means to lock said shaft against rotation when the shaft is in one axial position, positioning means fixed on the shaft and engageable with said locking means in said axial position but released from the locking means in another axial position of the shaft permitting rotation of the shaft, fixed and movable contact means, means operated by rotation of the shaft to operate said contact means selectively as said



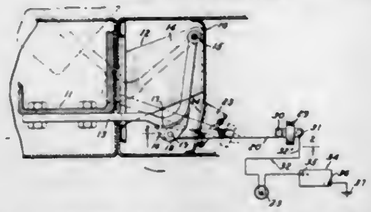
shaft is rotated into angularly spaced positions, yielding means acting to move said shaft toward a certain angular position, and means preventing return of said shaft from a second or third angular position to said certain angular position when said shaft is in said one axial position but allowing rotary movement manually between a second and a third angular position.

2,642,503
ADJUSTABLE MULTIPLE CIRCUIT CONTROL SWITCH
Walter L. Dietrich, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application January 22, 1951, Serial No. 207,207
11 Claims. (Cl. 200—18)



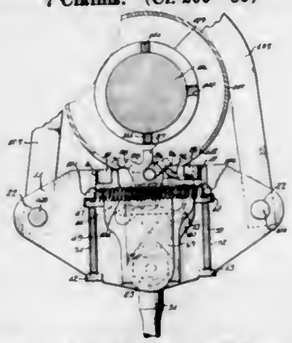
3. In an electric switch rotatable means, contact means, means moved by said rotatable means to operate said contact means, other rotatable means, other contact means, means moved by said other rotatable means to operate said other contact means, said two rotatable means being adjustable relatively to one another, means turning with said first rotatable means and means turning with said other rotatable means, slippage preventing means cooperatively engaging with both said turning means, and a manually engageable member on said first rotatable meanas operable to maintain said slippage preventing means in cooperative engagement with both said turning means and operable to permit rotational adjustment of said turning means with relation to one another.

2,642,504
ELECTRIC CIRCUIT OPERATING DEVICE
Richard C. Hascall, Detroit, Mich.
Application September 27, 1950, Serial No. 187,110
2 Claims. (Cl. 200—54)



1. A combined door check and switch for use with a door member mounted for swinging movement relative to a stationary frame member, said door check and switch comprising a check arm formed of electrically conducting metal and adapted to be pivotally mounted at one end to one of said members, a guide adapted to be mounted on the other member and having an opening therethrough surrounding and in contact with said check arm, said check arm having a head at its other end engageable with said guide to limit movement of said arm in said guide, said check arm having insulating material inset into its surface with the outer surface of said insulating material flush with the adjacent surface of said arm, and positioned to be interposed between the metal of said arm and said guide when the door is in a first predetermined position, means insulating said check arm from its pivot support, and an electric connection to said check arm to complete a circuit from said arm to said guide when the door is in a second predetermined position in which said inset insulating means is spaced from said guide.

2,642,505
DIRECTIONAL TURN INDICATOR
Ralph W. Hept, Bronson, Mich., assignor to Kingston Products Corporation, Kokomo, Ind., a corporation of Indiana
Application September 13, 1950, Serial No. 184,594
7 Claims. (Cl. 200—59)



1. In a directional turn indicator switching mechanism cooperable with a steering post having pawl striking means thereon, a frame having means to support the same adjacent the steering post, a plurality of superimposed reciprocable sliding plates mounted on said frame for movement toward and away from the steering post, a pair of said plurality of plates comprising first and second pawl carrying camming plates each having a complexly shaped camming slot therein, a third plate of said plurality of plates comprising a latch plate and having a symmetrically arranged camming slot therein with recessed portions at the opposite ends thereof extending in the direction of reciprocation of said plates, said latch plate being interposed between said camming plates, a driving arm pivotally mounted on said frame and having a camming pin extending through all of said plates and cooperable with each of said camming slots, resilient means normally biasing said driving arm towards a center neutral position, resilient means normally biasing said latch plate toward said steering post, pawl means carried by each of said camming plates, each of said pawl means having a latch plate engaging portion, and means to selectively angularly displace said driving arm in alternative direction, whereby actuation in either direction will cam one of said camming plates together with its pawl means into actuating registry with the steering post, said camming pin being engageable in one of said recessed portions of said camming slot of said latch plate, whereby said latch plate will be biased toward said steering post to seat said camming pin in said recess, said engaging portion of said one pawl means operable upon actuation in a predetermined direction to urge said latch plate away from said steering post, thereby to release said camming pin from said one of said recessed portions of said latch plate, whereupon all of said plates will be restored to neutral position.

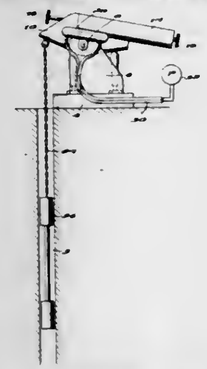
2,642,506
SWITCH
George J. Mucher, Rochester, N. H., assignor to Clarostat Mfg. Co., Inc., Dover, N. H., a corporation of New York
Application September 26, 1950, Serial No. 186,864
3 Claims. (Cl. 200—67)



1. A switch including in combination a mounting, a disc, a support disposed centrally of said disc and mounting for pivotally supporting the disc with respect to the mounting, a pair of spaced contacts extending from said mounting towards said disc, said contacts being spaced substantially equally from said central support, contact engaging and bridging arms extending into a plane into which said contacts project, said arms being each disposed to extend tangentially in the direction of disc rotation and having their outer ends diverging and secured substantially against movement with respect to said disc at a point adjacent the periphery of the latter, their inner ends extending towards said central support and at least one of such ends having limited yielding movements with respect to said disc and means for rotating said disc with respect to said mounting to move said arms from a position at which one of said contacts intervenes the space between the same and is substantially bisected by

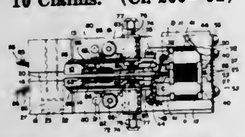
a line radial to said central support and the outer arm ends to a position at which the outer end portion of one arm engages such contact; the outer end of the second arm yieldingly camming over the second contact of said pair during such disc rotation.

2,642,507
CONTROL MECHANISM FOR WELL PUMPS
James Matt West, Fayetteville, Tenn.
Application October 16, 1951, Serial No. 251,574
11 Claims. (Cl. 200—84)



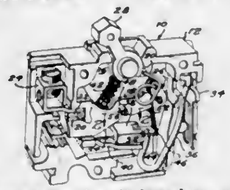
1. Well control mechanism comprising a generally horizontal elongated member mounted to turn on a substantially horizontal axis, a mass mounted for movement longitudinally of said member, means carried by said member to limit movement of said mass to a path between a point close to and a point remote from the vertical plane through said axis, means to attach a water-level-responsive element to said member on the other side of the axis from said remote point, and electric circuit making and breaking means operatively connected to said member to be operated by rocking of said member about its axis, the portion of the mechanism on the same side of the axis as the remote point being heavier than the portion on the other side of the axis when the mass is at a point close to the axis.

2,642,508
ELECTROMAGNETIC SWITCH
Theodore J. Wilson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 3, 1950, Serial No. 136,458
10 Claims. (Cl. 200—91)



1. In a vibrator, a non-magnetic frame member having a pair of slots at one end thereof, a pair of U-shaped permanent magnets mounted in said pair of slots in one end of said frame member and disposed with opposite polarity extremities of said magnets in near abutting relationship to define a pair of air gaps therebetween, a non-magnetic vibrating reed member mounted at one extremity in the other end of said frame member and disposed with its free extremity in said air gaps, a pair of plates of magnetic material mounted on said free end of said flexible reed and disposed adjacent the extremities of said permanent magnets, a coil encircling said free end of said reed and said plates of said magnetic material, said coil being positioned in an aperture in said frame member and between the extremities of said magnets and being adapted to be energized with an alternating source of power to magnetize said plates with alternating polarities such that said reed is attracted to the extremities of said magnets to cause vibration of said reed, and contact means mounted on said reed and insulated therefrom, said contact means cooperating with stationary contacts adjustably mounted within said frame and insulated therefrom, the vibration of said reed upon energization of said coil causing alternating engagement of said contact means and said stationary contacts.

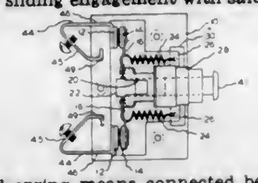
2,642,509
AUTOMATIC CIRCUIT BREAKER WITH CALIBRATION PROVISION
Thomas M. Cole, New York, N. Y., and Paul M. Christensen, West Orange, N. J., assignors to Federal Electric Products Company, Newark, N. J., a corporation of Delaware
Application March 23, 1951, Serial No. 217,162
24 Claims. (Cl. 200—116)



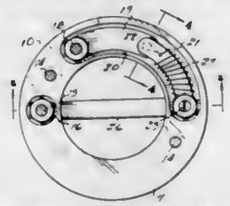
1. An automatic circuit breaker, comprising a casing having laterally spaced walls provided with aligned bearing portions, a movable contact member, pivot means on which said movable contact member is mounted for pivotal movement between said walls, said pivot means being supported for pivotal movement by said bearing portions of the casing, an actuating member carried by said movable contact member and a current responsive device for operatively connecting said actuating member releasably to said movable contact member for operating the latter except when said current responsive device is disconnected from said actuating member upon overload, and means including interengaging relatively adjustable parts of said pivot means and said movable contact member, respectively, for adjusting the releasable connection between said actuating member and said current responsive device whereby to calibrate the circuit breaker for automatic opening thereof upon overload.

2,642,510
SWITCH
Richard C. Ingwersen, Jackson, Mich., assignor to Mechanical Products, Inc., Jackson, Mich., a corporation of Michigan
Application June 6, 1949, Serial No. 97,356
4 Claims. (Cl. 200—116)

1. In an electric switch having current overload protection, a casing including fixed guide structure and fixed guide structure including an abutment ledge on one side and defining a guide surface on its opposite side, fixed contacts in said casing, a support structure movably mounted on said guide structure, said support structure carrying movable contacts in opposed relation to said fixed contacts, a thermally responsive latch in electrical series with said movable contacts and engageable with said abutment ledge to hold the said contacts in closed position and spring guide means in sliding engagement with said guide surface, and spring means connected between said support structure and said casing to constantly urge said movable contacts to open position, said spring means being tensioned when said support structure is moved to engage said latch with said abutment ledge and close said contacts.

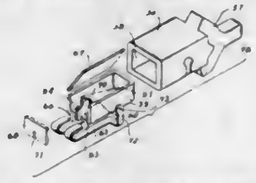


2,642,511
THERMAL-SENSITIVE ACTUATOR FOR FIRE ALARMS
Howard A. Rike, Los Angeles, Calif.
Application March 21, 1949, Serial No. 82,632
2 Claims. (Cl. 200—122)



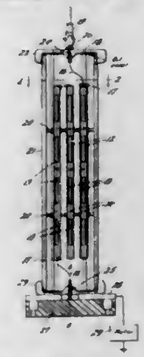
1. In a device for closing an alarm circuit, an annular body having a pair of terminals arranged therethrough for connection into an electrical circuit, a conductor connected to one of said terminals and extending around a segment of said body and terminating opposite the other terminal, the said conductor comprising a thermally actuated coupling capable of intermittent disengagement to open said circuit, a bi-metal strip connected at one end to said last named terminal and extending diametrically across said body and having a normally disengaged contact on its free end engageable with said conductor to normally close said circuit.

2,642,512
MERCURY OR LIQUID CONTACT SWITCH
Israel Shamah, New York, N. Y., assignor to Ismah Corporation of New York
Application January 5, 1951, Serial No. 204,505
5 Claims. (Cl. 200—152)



1. A mercury switch element comprising an insulating body having an elongated opening therein, a ceramic structure provided in the opening to protect the walls of the opening from high heat which may be generated by the mercury on an overload occurring, said ceramic structure including an end part, terminal strips extending through the end ceramic part and adapted to be bridged by mercury within the opening and self-hardening material extending over the end part and fixing the same and the terminals to the switch element body, said terminals being bent to extend in spaced relation over the edge of the body, and having respectively hook formations at the ends for receiving stationary terminals and to retain the switch body in its adjusted positions, and said ceramic structure having pocket openings for the collection of mercury in the opposite ends thereof with an abutment lying between them whereby the mercury can be effectively restrained in either end of the body opening.

2,642,513
CORONA FREE MULTIPLIER
Bernard W. Smith, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 14, 1951, Serial No. 231,541
9 Claims. (Cl. 201—63)



1. In an electrical instrument multiplier, a receptacle of insulating material, rounded end members for sealing said receptacle, a plurality of hollow insulators retained in spaced relation within said receptacle, a plurality of resistors within said hollow insulators and electrically interconnected, and a terminal retained in each member connected to the resistors and adapted for connection to the electrical instrument.

2,642,514
ION EXCHANGE PROCESS WITH MAGNETIC ION EXCHANGE RESINS
Earl C. Herkenhoff, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 10, 1946, Serial No. 689,811
3 Claims. (Cl. 210—24)

2. A process which comprises bringing a liquid containing ionizable solids into contact with a mixture of a magnetic cation exchange resin and an anion exchange resin until the mixture of resins no longer has a capacity for removing ionizable solids from the liquid, separating the mixture of exhausted resins from said liquid, and

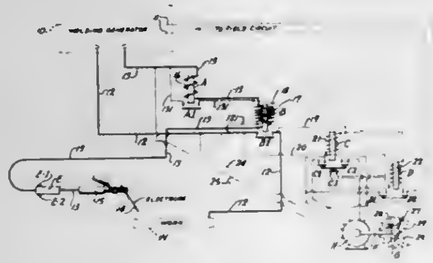
separating the cation exchange resin from the anion exchange resin by magnetic means, bringing the separated magnetic cation exchange resin into contact with a dilute solution of an acid, bringing the separated anion exchange resin into contact with a dilute solution of an alkali, mixing the so-reactivated cation and anion exchange resins together and bringing a liquid containing ionizable solids into contact with the mixture.

2,642,515

REMOTE CONTROL FOR ARC WELDING

Earle W. Bagg, Sans Souci, Mich.

Application October 30, 1950, Serial No. 192,881
3 Claims. (Cl. 219—8)



1. Means for controlling the welding current from an arc welding generator remote therefrom comprising a reversible electric motor driven rheostat regulating the field current therefrom and a welding and a control relay system located at the generator, a welding current lead from the generator to the welding electrode and a welding current ground lead the generator to the work, the welding relay system being normally open and closeable responsive to striking the arc, the said control relay system including two relays each closeable responsive to the application thereto of a different definite current value lower than the welding current value closing a circuit from the generator to the motor driven rheostat, one relay and circuit driving the motor in one direction turning the rheostat to increase the welding current and the other relay and circuit driving the motor in the other direction turning the rheostat to decrease the welding current, and two resistances each of a different capacity connected to the welding current lead at the situs of the welding operation each having a free contact applicable to the work whereby to selectively introduce either different definite resistance into the control relay system and actuate one or the other of the said relays thereof.

2,642,516

BINDER FOR FILLER MATERIALS IN TUBULAR WELDING RODS

Howard S. Avery, Mahwah, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware

No Drawing. Application March 31, 1950, Serial No. 153,308
4 Claims. (Cl. 219—8)

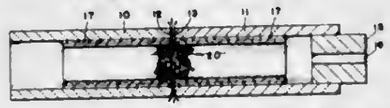
1. A tubular welding rod containing filler materials, said filler materials having mixed therewith an inorganic chemical compound selected from the sodium metasilicate hydrates to provide a binder for the filler materials, said filler materials and chemical compound being granular when initially inserted in the welding rod, and said chemical compound providing a binder since it melts during processing of the rod and congeals upon cooling to solidify the filler materials.

2,642,517

METHOD OF PROTECTING BUTT FLASH WELDED ARTICLES FROM WELD SPLATTER

Arthur L. Lindow, Macedonia, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio

Application November 13, 1951, Serial No. 255,993
6 Claims. (Cl. 219—10)



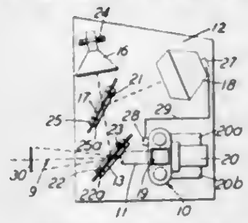
1. In conjunction with the butt flash welding of two tubular members, the process of protecting the inner walls of said members from weld splatter which consists of inserting into each member adjacent to the end intended to be welded a combustible tubular shield of sufficient thickness to assure rigidity, preventing its combustion from the welding heat by removing oxygen from said shield, and subsequent to welding burning off said shields and removing the loose splatter from the interior of the welded members.

2,642,518

DUAL LIGHT SOURCE FOR CAMERAS

Jackson W. Bates, Ovid, Mich.

Application December 21, 1950, Serial No. 202,105
5 Claims. (Cl. 240—2)



4. In an apparatus for directing light radiation in a path parallel to and substantially surrounding the extended axis of the optical system of a camera, the combination comprising: a first mirror having a central opening through which said axis extends, said mirror being disposed at an angle to said axis and having its reflective surface remote from said camera; a first light source positioned to direct radiation upon the reflective surface of said first mirror, the portion of said radiation reflected therefrom being parallel with said axis; a second mirror disposed between said first light source and said first mirror and disposed at an angle to said first mirror, the reflective surface of said second mirror being surrounded by a light pervious area, the reflective surface of said second mirror facing said first mirror and being substantially smaller than said first light source; and a second light source positioned to direct radiation upon the reflective surface of said second mirror, the portion of this radiation reflected from said second mirror being substantially parallel with the radiation from said first light source.

2,642,519

LUMINIFEROUS CANE

William Caustin, San Jose, and Carl J. Gustafson, Los Gatos, Calif.; said Carl J. Gustafson assignor, by decree of distribution, to Olive Rye

Application June 27, 1949, Serial No. 101,658
2 Claims. (Cl. 240—6.42)



1. In a luminiferous cane of the type having a light source adjacent its handle end and means for manually controlling said light source; a first planiform reflector on one side of said light source, a shank portion for said cane of relatively rigid, non-breakable, transparent substance capable of carrying light axially thereof, said shank portion of substantially uniform diameter throughout a major portion of its length, said shank having one end thereof disposed to receive light rays from said light source, and from said first reflector, a second substantially planiform reflector mounted adjacent the opposite end of said shank portion from said light source for promoting uniformity of the intensity of said light rays throughout the entire length of said shank portion, and a translucent layer of light-diffusing material of cloudy white color applied to the outer surface of said shank portion for illumination by both the direct and reflected light thereby to produce a substantially uniform white glow throughout the length of the shank of the cane during darkness.

2,642,520

PORTABLE RECHARGABLE FLASHLIGHT

Roger S. Coolidge, Center Sandwich, N. H., Harry W. Keely, New York, N. Y., Reginald S. Smith, Norwalk, Conn., and Tore N. Anderson, Huntington Station, N. Y.

Application December 21, 1946, Serial No. 717,776
8 Claims. (Cl. 240—10.6)



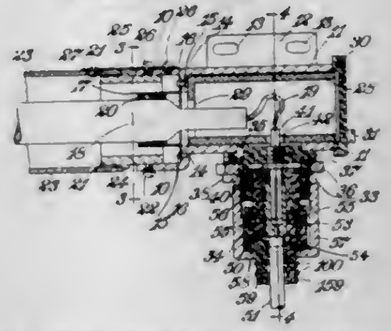
1. A portable rechargeable lighting device, comprising a casing, an electric lamp therein, a rechargeable battery, a switch electrically connected in a circuit with said lamp and said battery, an electronic tube removably mounted in said casing for supplying charging current to said battery and for receiving current from a house lighting circuit, said tube having a filament therein, and a switch in circuit with said filament and the house lighting circuit for heating said filament to condition said tube for operation and thereafter to be opened, a part of said tube thereafter operating as a voltage dropping resistor.

2,642,521

END CONNECTION FOR TUBULAR LAMPS

John William Easter, Acton, London, England, assignor to Ozalid Company Limited, London, England, a British company

Application May 17, 1950, Serial No. 162,551
In Great Britain May 26, 1949
3 Claims. (Cl. 240—11.4)



1. For use in combination with an electric lamp of the type described having a transparent vitreous envelope at opposite ends of which leading-in wires, fused to the wall of the envelope, extend outwardly therefrom, an external end-connection and support for the lamp comprising an elongated tubular metal housing having one end part surrounding the body portion of the lamp at the end thereof and an opposite end part surrounding the corresponding leading-in wire, a ring-like circumferentially expansible clamp secured to the housing within the first-mentioned part thereof and shaped to surround and engage the vitreous envelope of the lamp providing for its free circumferential expansion during operation, a sleeve of heat-resisting electrically-insulating material located within the second-mentioned part of the housing and providing an air-space enclosure within which the aforesaid leading-in wire is freely accommodated, and a plug-and-socket coupling comprising an insulated holder detachably connected to the second-mentioned part of the housing and a contact element carried by the holder and electrically connected to the leading-in wire aforesaid.

2,642,522

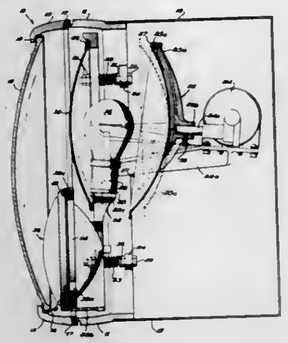
ILLUMINATION APPARATUS FOR WARNING AND SIGNALING PURPOSES AND HAVING HEADLIGHT AND WARNING LIGHT UNITS ADJUSTABLE IN UNISON

Thomas E. McDowell and Arthur C. Heehler, Chicago, Ill., assignors to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey

Application March 3, 1949, Serial No. 79,444
6 Claims. (Cl. 240—48)

1. Illumination apparatus comprising a generally cylindrical casing having a clear lens in one end thereof, a plurality of circumferentially spaced bosses extending radially inwardly into said casing, a plate-like bracket in said casing, a corresponding plurality of circumferentially spaced adjustable mounting means between said bracket and said bosses, said bracket carrying a sealed beam lamp unit to project a stationary beam of light through said clear lens, said bracket

carrying a source of light adjacent said sealed beam lamp unit and having a pedestal portion behind said source of light carrying a motor, said motor having a movable reflector connected



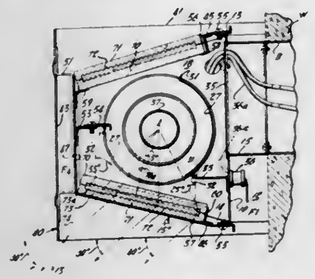
thereto to collect and focus the rays of light from said source of light to project a movable beam of light through said lens, the adjustment of said bracket adjusting in unison only the projection axes of both of said beams of light.

2,642,523

LUMINAIRE OF THE WALL MOUNTED TYPE

Vearl S. Wince, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware

Application August 16, 1949, Serial No. 110,579
11 Claims. (Cl. 240—73)



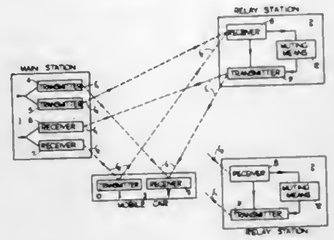
1. A wall mounted luminaire having a normally vertical backplate, a plate carried lamp socket having its axis horizontal, in front of the plate, and parallel with the plate, and disposed to carry a lamp is front of the plate, two forwardly extending brackets, one near the socket and apertured for the lamp, the other spaced therefrom to accommodate the lamp, bracket carried bearing members coaxial with the socket axis, a shutter member extending between the bearing members and mounted thereon, and occupying a zone of substantially 120° width with respect to said axis, the shutter being shiftable on said bearing members to place it below the axis to intercept downwardly emitted light, above the axis to intercept upwardly emitted light or to the rear of the axis to allow escape of light upwardly, downwardly and forwardly.

2,642,524

RADIO COMMUNICATION SYSTEM

Alan John Bayliss, Wembley, England, assignor to The General Electric Company Limited, London, England

Application November 1, 1949, Serial No. 124,744
In Great Britain November 4, 1948
5 Claims. (Cl. 250—6)



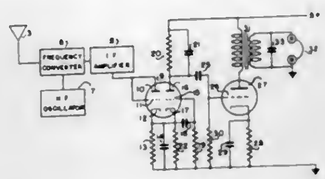
1. A radio communication system comprising a main station, a relay station and a mobile station, the main station having transmitting means to transmit simultaneously oscillations at a first and a second radio frequency both of which oscillations are modulated with the same intelligence and receiving means to receive oscillations at said first and second radio frequencies, the relay station having receiving means to receive oscillations at said second radio frequency and transmitting means to transmit oscillations at said first radio frequency modulated with the received modulation, and the mobile station having transmitting means to transmit oscillations at said second radio frequency and receiving means to receive oscillations at said first radio frequency.

2,642,525

WAVE FORM CONVERTER

Henry J. Horn, United States Navy, and Carl M. Russell, Washington, D. C.

Application April 7, 1945, Serial No. 587,199
5 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)



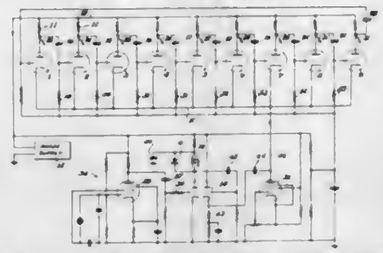
1. A waveform conversion circuit for deriving a sinuous signal from a recurrent impulse voltage signal comprising a unilateral impedance, a first load circuit charged through said impedance and having a high discharge time constant, means for applying a recurrent impulse signal to the impedance, a vacuum tube including a control grid, a second load circuit associated with said tube having a long response time constant and means for applying voltage developed across the first load circuit to the control grid of the tube.

2,642,526

RING OSCILLATOR PULSE PRODUCING CIRCUIT

Harris Gallay, Belleville, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware

Application December 19, 1949, Serial No. 133,853
7 Claims. (Cl. 250—27)



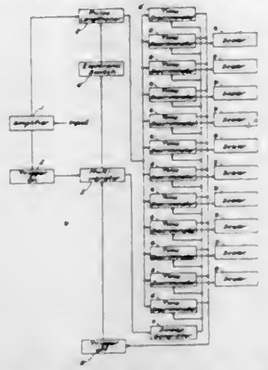
1. A circuit for producing in sequence over a series of output terminals pulses of substantially equal duration, comprising a series of electron discharge devices each having anode, cathode and grid electrodes, common anode and cathode supply circuits, resistance and capacitive elements for coupling the anode of each tube to the respective grids of the succeeding tube, an output terminal for each tube, and a constant current regulator adjusted to supply only sufficient current to said common supply circuits to maintain discharge of only one of said devices.

2,642,527

MULTICHANNEL ANALYZER

George G. Kelley, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application May 7, 1951, Serial No. 224,895
12 Claims. (Cl. 250—27)



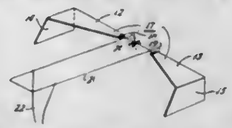
1. A multi-channel analyzer for determining pulse distribution comprising a window amplifier for selecting pulses within a predetermined voltage spectrum, a pulse lengthener fed by the amplifier for sustaining the crest of the pulses, a series of parallel connected discriminators coupled to the pulse lengthener, the discriminators of said series being biased to operate at different potentials, means for applying a rising gating potential to the discriminators of said series to render them operative in time relation, and means for scaling pulses from said discriminators.

2,642,528

ANTENNA FOR TELEVISION RECEIVERS

Robert B. Albright, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application June 17, 1949, Serial No. 99,621
2 Claims. (Cl. 250—33)



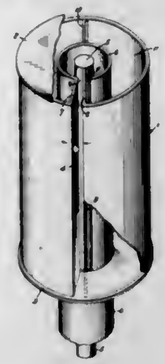
1. An antenna system for receiving signals in two separated bands of frequencies, said system comprising: a wide-band half-wave dipole antenna having a pair of arms resonant at a frequency substantially midway between said two bands, said dipole antenna having wide-band characteristics throughout a range of frequencies which includes the frequencies of said two bands and having the characteristics of a circuit having resistance, inductance and capacitance serially connected; and a tunable parallel-resonant circuit comprising a variable capacitor and a loop inductor, the junction terminals of said capacitor and inductor being connected directly to the terminals of said dipole antenna, said variable capacitor being adjustable to tune said parallel-resonant circuit to cancel out the reactance of said dipole antenna at each of two separated frequencies, at least one of which is in one of said bands.

2,642,529

BROADBAND LOOP ANTENNA

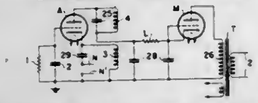
Sidney Frankel, Bergensfield, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application July 29, 1949, Serial No. 107,406
7 Claims. (Cl. 250—33)



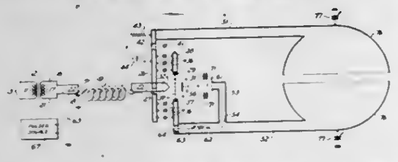
1. An antenna comprising a coaxial transmission line, a longitudinally slotted cylinder encircling and coaxial with the conductors of said transmission line, the outer conductor of said line having a slot in registry and coextensive with the slot of said cylinder, the edges of the cylinder defining the slot being joined throughout the length of the cylinder slot to the inner conductor and outer conductor, respectively, of said transmission line.

2,642,530
CONTROL APPARATUS
James C. Mouzon, Wyndmoor, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 3, 1948, Serial No. 18,817
4 Claims. (Cl. 250—36)



1. A tuned anode, tuned cathode oscillator comprising an electron discharge device having an output circuit including an anode and a cathode and including an inductance directly connected to said anode and including capacity cooperating with said inductance to form a resonant anode circuit, and an input circuit including a control electrode maintained at a substantially fixed potential and including said cathode and including a second inductance directly connected to said cathode and in mutual inductive relation with the first mentioned inductance and also including capacity cooperating with said second inductance to form a resonant cathode circuit, in which the inductances and capacities are so related that the respective resonant frequencies of the cathode and anode circuits are in the ratio of about 1.3 to 1.

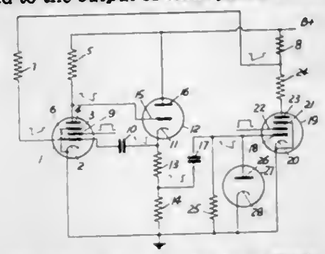
2,642,531
RADIO-FREQUENCY OSCILLATOR
William R. Baker, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application August 29, 1950, Serial No. 182,101
6 Claims. (Cl. 250—36)



1. In a radio-frequency oscillator, the combination comprising a vacuum tube having at least a filament, grid, and anode, said grid and filament having a parallel connected resistor and capacitor connected therebetween, a series connected first inductance and first capacitance connected between said grid and a neutral point, a series connected second inductance and second capacitance connected between said filament and said neutral point, said anode being connected to an intermediate tap on said second inductance, means connected to said filament for rendering said electron emissive, and means connected to said anode for rendering said tube conductive.

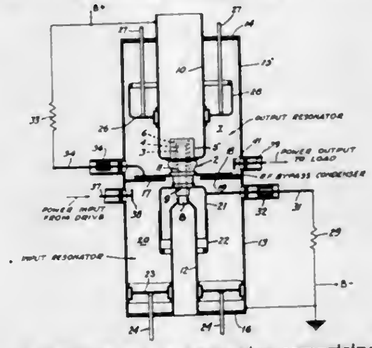
2,642,532
ELECTRON DISCHARGE CIRCUITS
Jack Mofenson, Medford, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application September 30, 1949, Serial No. 118,786
8 Claims. (Cl. 250—36)

1. An electron discharge system comprising an electron tube having an anode, a cathode, and a grid, an impedance connected between said anode and said grid, a discharge path for said grid comprising an impedance, and a potential source coupled to the output of said system which varies



as a function of said output and which is coupled to said impedance for maintaining a constant voltage drop across said impedance.

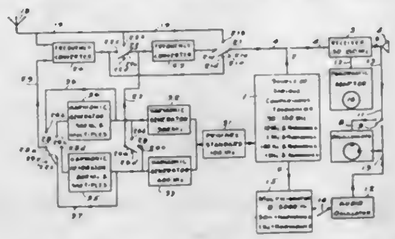
2,642,533
RADIO-FREQUENCY GENERATOR
Donald H. Preist, Tiburon, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 31, 1950, Serial No. 176,842
6 Claims. (Cl. 250—36)



1. A radio-frequency generator comprising inner and outer conductors defining an output cavity resonator, inner and outer conductors defining an input cavity resonator, a tetrode having a cathode and control grid and screen grid and anode, the anode being connected to the inner conductor of the output resonator and the cathode being connected to the inner conductor of the input resonator, means coupling the screen grid to the outer conductors of said resonators, and a hollow conductor extending axially of the input resonator and encircling the inner conductor thereof, said hollow conductor being open at one end and connected to the control grid at the other end, and having an electrical length substantially equal to an integral number of half-wave lengths at the operating frequency.

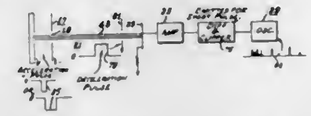
2,642,534
MULTIPLE STANDARD INVERSION FREQUENCY MEASURING SYSTEM
Alfred K. Robinson, Newport Beach, and William J. Hoffert, Santa Ana, Calif.
Application April 23, 1951, Serial No. 222,515
5 Claims. (Cl. 250—39)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method of measuring frequencies comprising the steps of providing a primary standard frequency, producing a certain selected multiple of said primary standard frequency, mixing said multiple with an original unknown signal whose frequency is to be determined to provide a converted frequency differing from said original unknown frequency by the amount of said selected



multiple frequency, providing a source of multiple frequencies and sub-multiple frequencies of said primary standard frequency, applying said converted frequency and one of the frequencies from said source to a tunable receiver having means for indicating beats.

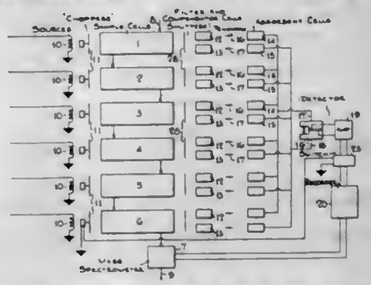
2,642,535
MASS SPECTROMETER
Alfred C. Schroeder, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 18, 1946, Serial No. 704,116
5 Claims. (Cl. 250—41.9)



1. A mass spectrometer including, in combination, an envelope containing a source of ions of a material to be analyzed, means for intermittently and successively accelerating and decelerating said ions as a function of their respective atomic weights, means for collecting at least some of said decelerated ions at successive time intervals determined by their relative accelerations, and means for indicating the relative abundance and travel times of said collected ions.

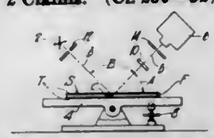
2,642,536
MULTICOMPONENT GAS ANALYZER
John J. Heigl, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 1, 1950, Serial No. 165,401
5 Claims. (Cl. 250—43.5)

1. An improved detector assembly in apparatus for the multi-component infra-red determination of gaseous mixtures consisting of a plurality of infra-red absorbent cells, said cells being arranged in pairs in the path of radiation through a plurality of gas sample cells, one of each pair of absorbent cells being pneumatically connected to one side of a condenser microphone detector, while the other of the said pairs of absorbent cells is pneumatically connected to the other side of the said condenser microphone detector, and means to periodically control the impingement of pulsating infra-red energy on each of the pairs of the said absorbent cells whereby the said detector periodically indicates any differential in



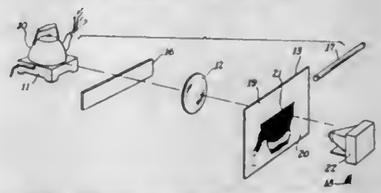
infra-red energy reaching each of the said pairs of cells.

2,642,537
APPARATUS FOR DETERMINING COATING THICKNESS
Kenneth G. Carroll, Cranford, and Donald S. Miller, Westfield, N. J., assignors to United States Steel Corporation, a corporation of New Jersey
Application December 22, 1949, Serial No. 134,568
2 Claims. (Cl. 250—52)



1. Apparatus for determining the thickness of tin coating on a ferrous base sample comprising a support for said sample, an X-ray tube arranged to direct a primary X-ray beam on the ferrous base, a radiation detector arranged on the same side of the ferrous base for detecting iron fluorescent radiation, means for rotating said support to change the angle between the detector and ferrous base independently of the X-ray tube, and a manganese filter between the detector and ferrous base.

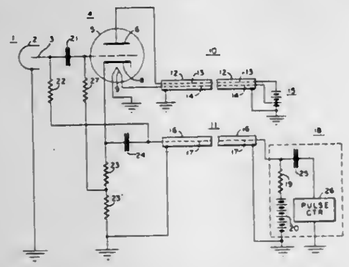
2,642,538
THERMAL RADIOGRAPHY USING PHOSPHORS
Franz Urbach, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 11, 1949, Serial No. 75,822
13 Claims. (Cl. 250—71)



1. The method of rendering visible an image formed by long wavelength, heat producing, radiation which comprises uniformly illuminating with exciting radiation a layer of fluorescent phosphor having a temperature range of approximately optimum fluorescence efficiency, main-

taining the phosphor in a temperature range which is just higher than said optimum range and in which the efficiency is less than ⅓ of the optimum and decreases, causing less bright fluorescence, with increasing temperature and, simultaneously with said illuminating and maintaining, focusing the long wavelength image onto the layer.

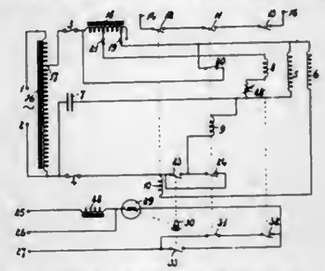
2,642,539
GEIGER TUBE CIRCUIT WITH CATHODE FOLLOWER
Samuel W. Lichtman, Oxon Hill, Md.
Application December 27, 1950, Serial No. 203,000
2 Claims. (Cl. 250—83.6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. In a signal transfer having at a first location a signal producing Geiger tube with an anode, a signal utilization device at a second location remote from the first, and a low characteristic impedance coaxial line with an inner and outer conductor linking said locations, the combination comprising; a high impedance resistor directly connected between said inner conductor and said Geiger tube anode, a cathode follower at said first location having a grid, a cathode and a line impedance matching cathode resistor, said grid and cathode being respectively solely coupled through capacitors to said Geiger tube anode and said inner conductor, a high voltage direct current energy supply at said second location, and a line impedance matching resistor and a capacitor solely coupling respectively said supply and said device to said inner conductor, the outer conductor of said coaxial line providing a return path for currents flowing through said inner conductor.

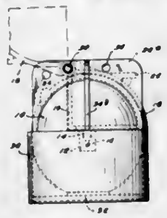
2,642,540
CIRCUIT ARRANGEMENT FOR X-RAY TUBES
Matthew Berindei, Cheam, and William Tennet, Wallington, England, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 28, 1951, Serial No. 243,992
In Great Britain September 11, 1950
5 Claims. (Cl. 250—93)

1. A protective circuit arrangement for a rotating anode type X-ray tube, the anode of which is rotated by a capacitor electric motor, comprising a current operated relay connected in series with the phase motor stator winding across the A. C. supply, a voltage-operated relay connected across the motor stator winding in the capacitor branch and a voltage-operated relay connected between the ends of the phase and capacitor branch motor stator windings which are not connected together, the said relays controlling the application of the high tension voltage to the X-ray tube, whereby the operation of the tube



may be prevented when the anode is not being rotated.

2,642,541
SHIELDING CONTAINER FOR RADIOACTIVE SOURCES
John F. Young, Salem, Mass., assignor to Tracerlab, Inc., Boston, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 258,818
11 Claims. (Cl. 250—108)

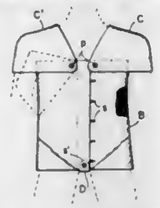


1. A shielding container for the storage and transportation of radioactive sources which comprises, in combination, a generally spherical member composed of radiation shielding material, said member having a cavity located generally at its center for removably holding a radioactive source and having a wedge-shaped slotted opening from its periphery to said cavity permitting access to the latter, a cover also composed of radiation shielding material fitting said slotted opening, and a hinged mounting for said cover permitting swinging thereof about a horizontal axis from a position filling said opening and shielding said source through a predetermined angle to a second position permitting access to said source while affording a maximum of shielding protection to the operator during removal from and replacement in said cavity of said source.

2,642,542
RADIATION PROTECTIVE JACKET
Marvin Weinberg, New York, N. Y.
Application April 16, 1951, Serial No. 221,257
6 Claims. (Cl. 250—108)

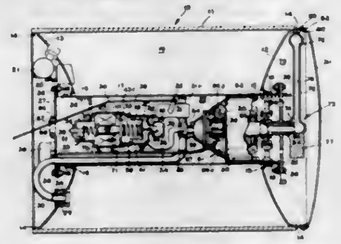
1. A radiation absorbent garment for protecting the body from radiation having a wavelength absorbed by the body, said garment having a size, shape and configuration adapting it to be disposed on the body and to enclose the body from the shoulders to the gonadal region and having inner and outer walls comprised of woven fabric and a non-rigid radiation absorbing shield disposed therebetween, said shield consisting of a plurality of pre-formed blocks sustained in

aligned side relationship to each other, each said block having a thickness at least approximating one-half inch and consisting of a mixture of calcium sulfate and a filler material consisting



of inorganic compounds increasing the opacity of the calcium sulfate to radiation having a wavelength absorbed by the body tissues without decreasing the transparency of the calcium sulfate to radiation not absorbed by the body tissues.

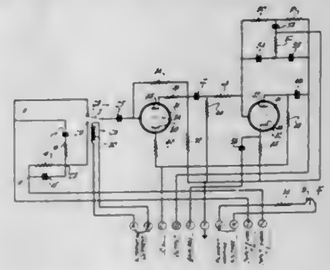
2,642,543
SELF-CONTAINED POWER UNIT
Walter D. Teague, Jr., Alpine, and Emil A. Volk, Jr., Hasbrouck Heights, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application November 24, 1951, Serial No. 258,072
14 Claims. (Cl. 290—52)



8. A self-contained power unit comprising a tank, a source of pressurized fluid in said tank, a chamber in said tank, an electrical generator in said chamber, a turbine drivingly connected to said generator, conduit means conducting said pressurized fluid to said turbine for driving the same, means conducting the exhaust fluid from said turbine into said chamber and through said generator, an orifice communicating said chamber to atmosphere, said orifice operative to control the venting of said chamber to atmosphere whereby said pressurized fluid is effective to cool said generator and to maintain said chamber at a pressure in excess of atmospheric pressure.

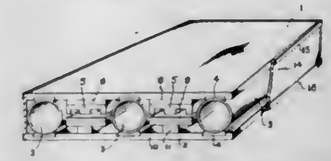
2,642,544
METHOD AND APPARATUS FOR COMPARING ELECTRIC SIGNALS
Samuel Feinstein, Brooklyn, N. Y., assignor to Servomechanisms, Inc., Mineola, N. Y., a corporation of New York
Application December 23, 1950, Serial No. 202,490
6 Claims. (Cl. 307—43)

6. An electric circuit for treating two signals comprising a circuit for each signal, a connection between one side of each signal circuit and a predetermined potential reference level, an electrical network including at least two impedances bridging the other side of said signal circuits and having an output terminal, an output circuit, means connecting the other side of one of said signal circuits to the output circuit, and means for periodically connecting the output



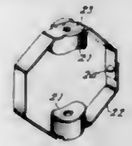
terminal of the impedance bridge to the output circuit to produce a difference signal in the output circuit.

2,642,545
APPARATUS FOR GENERATING LARGE MECHANICAL VIBRATIONS
Edward W. Smith, Melrose Highlands, Mass.
Application December 14, 1949, Serial No. 132,967
10 Claims. (Cl. 310—29)



1. Apparatus for generating large mechanical vibrations comprising a pair of parallel opposed plates, a plurality of tubes, means securing each of said tubes along opposite sides thereof to the opposing faces of the plates in parallel spaced relation one to the other, and electromagnetic means positioned and acting on said plates in the region between tubes for producing periodically repeated forces along substantially the length of the plates in a perpendicular direction between said plates.

2,642,546
ION TRAP
Louis J. Patla, Elmwood Park, Ill.
Application October 10, 1950, Serial No. 189,457
8 Claims. (Cl. 313—75)



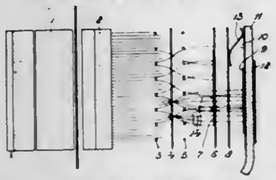
1. An ion trap for a cathode ray tube comprising, a continuous band of magnetic material, and a pair of permanent magnets attached to the inner surface of said band at diametrically opposed points and extending radially inwardly therefrom, said ion trap being adapted to encompass the neck of said tube, and said magnets being arranged with opposed poles facing each other.

2,642,547

DEVICE OF THE KIND COMPRISING AN ELECTRONIC TUBE HAVING A RIBBON-SHAPED BEAM WHICH IS DEFLECTED AND HELD IN DIFFERENT POSITIONS

Klaas Rodenhuis, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 21, 1951, Serial No. 257,512
In the Netherlands November 30, 1950
5 Claims. (Cl. 313—82)



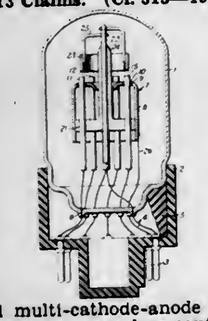
1. An electric discharge tube adapted to count a succession of pulses comprising an envelope and an electron discharge system within the envelope and comprising an electron gun capable of generating a ribbon-shaped beam, a pair of deflection electrodes positioned to deflect the beam to obtain a given number of positions, a first grid electrode having wires positioned parallel to the direction of deflection of the beam, a first slotted screen electrode having slots positioned perpendicular to the wires of the first grid electrode, a second grid electrode positioned on the side of the first screen electrode remote from the electron gun and having wires positioned in register with and parallel to the wires of the first grid electrode, a second slotted screen electrode having slots positioned in register with the slots of the first screen electrode, a gauze covering over a portion of said second slotted screen electrode, a third slotted electrode having slots positioned in staggered register with the slots of said second screen electrode, and a fluorescent screen on a portion of the inner wall of the envelope in the path of the electron beam.

2,642,548

COLD CATHODE DISCHARGE TUBE

Milner W. Wallace, Westwood, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware

Application October 26, 1951, Serial No. 253,284
13 Claims. (Cl. 313—196)



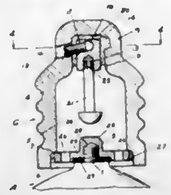
1. A cold multi-cathode-anode gap discharge device comprising an envelope containing a gaseous atmosphere, an anode, a plurality of cathodes spaced apart and from said anode to form cathode-anode gaps of substantially equal operating characteristic and means equalizing substantially the active areas of said cathodes.

2,642,549

HOUSED SPARK-OVER GAP

Leo Pummer, Chicago, Ill., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application April 11, 1952, Serial No. 281,714
3 Claims. (Cl. 313—231)



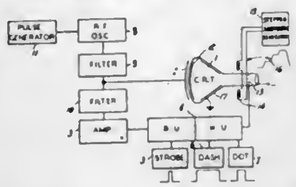
1. In a spark-over gap device, the combination with a cup-like housing composed of insulating material and enclosing an elongated arcing chamber open at one end and closed at the other end, of an apertured electrode plate secured in said open end, a terminal block secured in the closed end and including conductor receiving and clamping means accessible from the exterior of said housing, and an elongated electrode extending from said block adjacent the closed end of said housing to a point adjacent said plate and the apertures therein, the chamber in said housing being proportioned so that a major portion thereof is disposed about the length of said electrode and a minor portion surrounds the gap between said electrode and plate.

2,642,550

ELECTRONIC INFORMATION STORAGE DEVICE

Frederic C. Williams, Timperley, England, assignor to National Research Development Corporation, London, England

Application January 11, 1951, Serial No. 205,459
In Great Britain January 19, 1950
12 Claims. (Cl. 315—12)



1. An electronic information-storing device comprising a storage surface, means to direct a beam of electrons recurrently upon an elementary area of said surface, means to maintain said beam substantially stationary upon said area, an electrode capacitively coupled to said storage surface, means to generate an oscillatory voltage and means to apply said oscillatory voltage to said electrode to vary the effective secondary emission ratio of said surface.

2,642,551

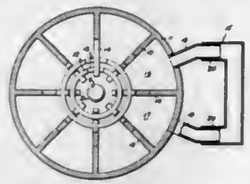
HIGH-FREQUENCY MAGNETRON

Charles V. Litton, Redwood City, Calif.

Application May 8, 1950, Serial No. 160,749
7 Claims. (Cl. 315—39)

2. A magnetron for stable operation of ultra-high frequencies with high power output compris-

ing a cathode and an anode structure about said cathode having walls defining a plurality of cavity resonators, each of said walls being provided with a slot substantially at the midpoint and extending



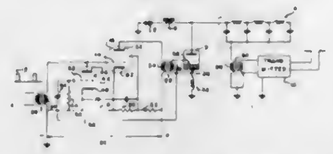
lengthwise radially from the edge of said wall adjacent said cathode, said slot being substantially a quarter wave length long at the frequency of vibrations in the longitudinal mode in said cavity resonators.

2,642,552

GAS TUBE PROTECTOR CIRCUIT

Irving Sager, New York, N. Y., assignor to the United States of America as represented by the Secretary of War

Original application July 6, 1944, Serial No. 543,741. Divided and this application October 31, 1950, Serial No. 193,240
9 Claims. (Cl. 315—165)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A circuit comprising in combination: at least one arc-discharge tube having a cathode, an anode coupled to a potential that is positive relative to said cathode, and a discharge control electrode; an input circuit for impressing triggering pulses between said disabling electrode and said cathode; and control means responsive to the conduction of said tube, for disabling said input circuit only until the cessation of each input pulse.

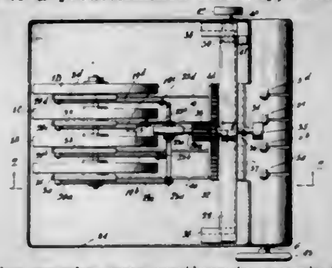
2,642,553

LIGHTING CONTROL APPARATUS

Rollo Gillespie Williams, Great Neck, N. Y., assignor, by mesne assignments, to Duro-Test Corporation, North Bergen, N. J., a corporation of New York

Application May 21, 1948, Serial No. 28,306
In Great Britain May 28, 1947
35 Claims. (Cl. 315—292)

1. In lighting control apparatus adapted to control the light intensity of a light source, the combination of an electric light source, means to control the brightness thereof, means to move said brightness control means, an operating member effectively operative always in the same direction, and means for connecting said operating member with said brightness control moving means, said last means automatically disconnecting said operating member from said moving means when said light source has been adjusted to a predetermined intensity, while said



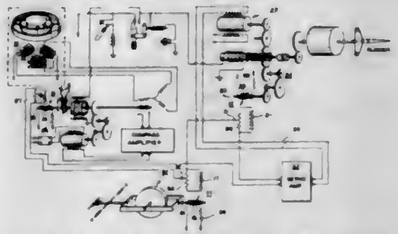
operating member may continue to operate in the same direction.

2,642,554

AUTOMATIC STEERING SYSTEM

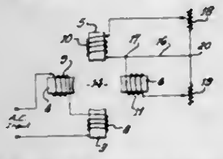
Alan M. MacCallum, Maywood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application January 23, 1947, Serial No. 723,829
4 Claims. (Cl. 318—28)



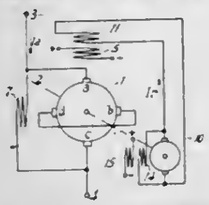
1. In an automatic pilot for aircraft having a movable control surface thereon and a servomotor for operating said surface, reference means including a variable inductive device having a single phase wound stator and an inductively coupled angularly movable single phase wound rotor for developing in said stator a signal in response to a departure by said craft from a predetermined position for operating said motor, rate of departure means comprising a rate-of-turn gyroscope and a second variable inductive device controlled thereby and having a single phase wound stator and an inductively coupled angularly movable single phase wound rotor for developing in said second-named stator a signal in response to the rate of departure by said craft from said predetermined position for modifying the operation of said motor, a third variable inductive device comprising a single phase wound stator and an inductively coupled angularly movable single phase wound rotor responsive to the operation of said motor for developing in said last-named stator a follow-up signal for further modifying the operation of said motor, means connecting said rotors for energization from a source of alternating current, means connecting said stators in series with one another for controlling operation of said motor, means connected to the rotors of at least two of said variable inductive devices for controlling the phase of the signal developed therein within an angle of less than 180 degrees, and means connected to the stator of at least two of said variable inductive devices for controlling the magnitude of the signal developed therein independently of the phase of the signal.

2,642,555
ADJUSTABLE SPEED INDUCTION MOTOR
Donald E. Warner, Los Angeles, Calif., assignor to Robert D. Newcomb, Los Angeles, Calif.
Application April 22, 1950, Serial No. 157,507
18 Claims. (Cl. 318—223)



1. In a single-phase induction motor having a stator with a plurality of equiangularly spaced polar members, and a rotor: a plurality of coils, respectively surrounding said members; means for supplying a single-phase alternating current to only some of the coils; there being at least two other coils; a pair of variable resistances; a connection intermediate the resistances to a point intermediate the other coils; and connections respectively between the other terminals of the resistances to other terminals of the said other coils; said intermediate connection including a source of alternating current, and a rectifier in series with said source.

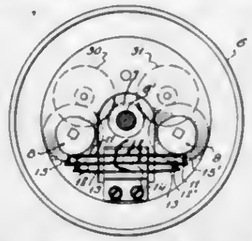
2,642,556
ELECTRIC MOTOR OF THE METADYNE TYPE
Joseph Maximus Pestarini, Staten Island, N. Y.
Application September 20, 1946, Serial No. 698,372
3 Claims. (Cl. 318—327)



1. An electric system comprising a direct current source and a variable voltage motor comprising an armature associated with a commutator having a set of two non-consecutive primary brushes and a set of short circuited secondary brushes per cycle and a plurality of stator windings, dynamo means for supplying current at speeds above a predetermined speed, means for connecting said primary brushes to said direct current source, a pair of said stator windings being disposed with their magnetic axis coincident with the flux created by the primary brush current traversing said armature, means for connecting one of said pair of stator windings with said dynamo means, means for energizing the other of said pair of stator windings with a predetermined constant current whereby the current supplied by said direct current source to said motor is controlled by said predetermined current and rapidly modified as the predetermined speed of said dynamo means is reached.

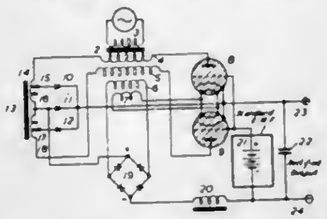
2,642,557
FAIL SAFE LIMIT SWITCH
Raymond Goldstein, Woodside, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application December 9, 1949, Serial No. 131,961
6 Claims. (Cl. 318—470)

1. A fail-safe limit switch arrangement for reversible servomotors, comprising a reverse current controller, a single rectifier, a limit cam for each direction of movement of the servomotor, a multi-throw switch operated by each cam, each switch having at least two positions besides the normal running position, one position in which the main circuit to the servomotor is broken and said rectifier placed between the



supply and said motor to block current flowing in the prevailing direction, but permitting current flow through the other switch upon reversal of said controller, and a second position in which the circuit through said rectifier is broken, thereby preventing operation of said motor regardless of the position of said controller.

2,642,558
ELECTRIC POWER SUPPLY EQUIPMENT
Victor John Terry and Richard Kelly, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 26, 1949, Serial No. 95,418
In Great Britain May 28, 1948
16 Claims. (Cl. 321—18)

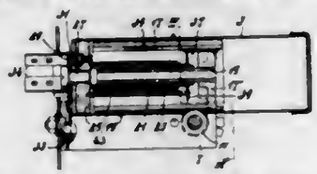


5. Electrical equipment for supplying from a source of alternating voltage a unidirectional current at a regulated output voltage comprising a pair of output terminals, a main rectifier connected to said source, an auxiliary rectifier connected to said source and comprising a vacuum tube having a control electrode, a transformer having a primary winding in series with said auxiliary rectifier and a secondary winding connected in series with said main rectifier, a further rectifier connected in series with said secondary winding and to one of said output terminals and means connecting said control electrode to a point in said equipment whose voltage varies in accordance with said output voltage.

2,642,559
INDUCTANCE COIL OF THE SLIDING CORE TYPE
Henri Marinus Visch, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 8, 1949, Serial No. 131,719
In the Netherlands December 11, 1948
7 Claims. (Cl. 336—80)

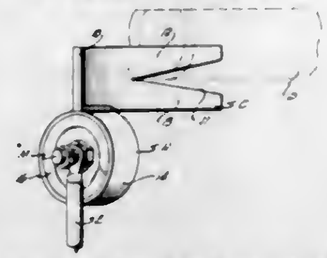
3. An inductance coil suitable for use in radio receivers and the like comprising a tubular enclosure of non-magnetic material, a coil wound

on a hollow tubular form of insulating material within said enclosure, a core having a given axis slideable within said form, a tubular member of non-magnetic material surrounding said form and moveable within said enclosure, a transverse member of non-magnetic material secured to said tubular member for movement therewith and supporting said core at an end thereof remote from



the end which enters said tubular form, and a rod of ferrite material having a magnetic permeability of at least 100 slideably secured to said transverse member and moveable therewith, said rod of ferrite material being mounted approximately parallel to the axis of said core adjacent the inner wall of said tubular member.

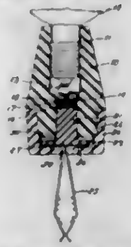
2,642,560
ROTATABLE WELDING GROUND CLAMP
John L. Elkins, Long Beach, Calif.
Application September 27, 1949, Serial No. 116,110
2 Claims. (Cl. 339—8)



1. An electrical grounding device which includes: a plate having jaws formed therein, with said jaws serving to removably affix said plate to the side walls of a pipe; a housing supported from said plate; a ball bearing assembly having an inner and outer race, with said outer race being supported in said housing and remaining fixed with relationship thereto; a member having a flanged end and a threaded portion extending through said inner race; a nut engaging said threaded portion and cooperating with said flange to grasp said inner race therebetween; a lock screw which engages a bore formed in said nut and threaded portion to hold said member and inner race together as an integral unit and prevent said flange coming in contact with said housing; a bolt extending outwardly from said threaded portion; and a nut engaging said bolt to hold the terminal of a cable in position thereon, with said terminal being situated between said nuts and hanging downwardly at all times irrespective of the rotation of said pipe to which said device is affixed.

2,642,561
LIGHTING FIXTURE
Albert L. Judson, Portland, Oreg., assignor, by mesne assignments, to On-A-Lite Corporation, Peoria, Ill., a corporation of Oregon
Application February 14, 1949, Serial No. 76,211
5 Claims. (Cl. 339—99)

1. In an electrical fixture having a cap member with a piston element to force a conductor cord onto a pair of prongs to make electrical connection with conductors in said cord, an apertured end wall in said cap member, and a mounting clip extending through said aperture and having a portion inside of said cap clamped between the inside surface of said end wall and said piston element to hold the fixture upright

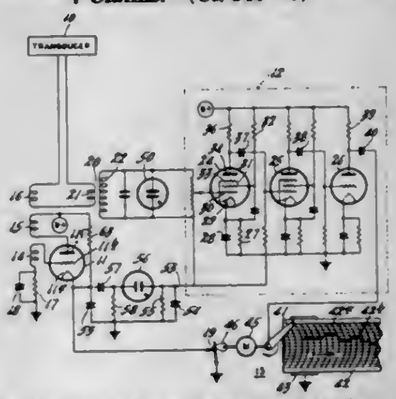


when the clip is engaged with a support in an upstanding position, said wall having portions defining said aperture in the general shape of a lemniscate wherein certain of said wall portions extend inwardly toward each other from opposite sides of said aperture to engage opposite sides of said clip and allow limited rotation of the clip in the aperture.

ERRATUM

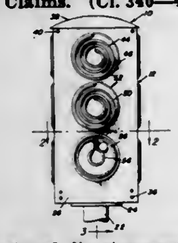
For Class 339—107 see:
Patent No. 2,642,474

2,642,562
ECHO DISTANCE MEASURING CIRCUIT
James L. Russell, Sun Valley, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 24, 1949, Serial No. 112,107
7 Claims. (Cl. 340—6)



1. An echo distance measuring system comprising: a transducer; a transmitter for energizing said transducer; a receiver having bridged across its input and a parallel oscillatory circuit tuned to the signal frequency and shunted by a discharge device normally having a high impedance but breaking down to a low impedance in response to a potential above a critical value intermediate the potentials developed in said transducer in response to received echoes and the potentials produced by said transmitter, respectively; and circuit means connecting said transmitter and said receiving oscillatory circuit in series with each other and with said transducer, whereby said transmitter, said receiving oscillatory circuit, and said transducer constitute a single current path.

2,642,563
TRAFFIC LIGHT
Max Dapoz, New Philadelphia, Ohio, assignor of one-fifth to Henry Thieband, and one-fifth to Joseph F. Sani, both of New Philadelphia, Ohio
Application March 7, 1951, Serial No. 214,299
3 Claims. (Cl. 340—43)



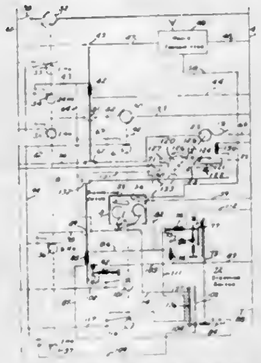
1. A traffic signal director comprising a housing having first and second relatively transverse traffic control units carried thereby, a motor disposed in said housing and having a vertically disposed drive shaft, each of said units including a "Go" light, a pair of horizontally disposed indicator support shafts carried by said housing, each of said support shafts having an indicator carried thereby and movable around one of said "Go" lights to indicate the time remaining during which the "Go" light will be illuminated, clutch means for drivingly connecting each of said support shafts to said drive shaft, a clutch actuator plate disposed in said housing, a plurality of standards in said housing, means carried by said standards and engaging the periphery of said actuator plate to rotatably support the latter for movement about an axis parallel to the axis of said drive shaft, clutch shifting members movably mounted between said standards and each operatively connected to a different one of said clutch means, said plate having slots therein receiving each of said shifting members, said slots being so constructed and arranged to cause movement of one of said shifting members into its clutch engaging position and movement of the other of said members into clutch disengaging position in response to movement of said plate about its axis of rotation.

ERRATUM

For Class 340—128 see:
Patent No. 2,642,489

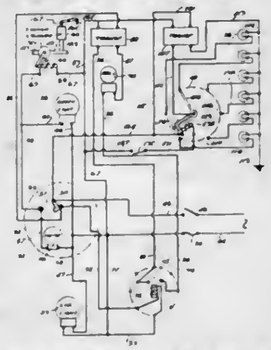
2,642,564
RADIO REPORTING PRECIPITATION GAUGE
John C. Stevens, Portland, Oreg., assignor to Leupold & Stevens Instruments, Inc., Portland, Oreg., a corporation of Oregon
Application September 15, 1951, Serial No. 246,729
9 Claims. (Cl. 340—201)

1. In a precipitation signaling system, the combination comprising a summation gauge means including an indicator movable in response to accumulations of precipitation, a signaling device including totalizing means operatively connected to said indicator for adjustment thereby in accordance with the movement of said indicator, said signaling device including means for creating electrical impulses corresponding to any condition of adjustment of said totalizing means, electrical transmission means connected to said signaling device for automatically transmitting information to a remote point simultaneously with the creation of and corresponding to said electrical impulses, a first timer operated switch operatively connected to said signaling device for causing regular periodic transmission of signals at long intervals of time irrespective of movement of said indicator during such long intervals, a cumulative stepping switch operatively connected to said indicator for step-by-step movement between zero and maximum positions proportional to movements of said indicator and together with the adjustment of said totalizing means by said indicator, a second timer operated switch means operatively connected to said stepping switch for restoring said stepping switch to zero position at the end of regular short intervals of time, a third



timer operated switch means operatively connected to said signaling device and to said stepping switch for causing regular periodic transmission of signals at intermediate intervals of time in the event of any stepping movement of said stepping switch during any intermediate interval of time, and a fourth timer operated switch means operatively connected to said signaling device and to said stepping switch for causing regular periodic transmission of signals at the end of said short intervals of time in the event of movement of said stepping switch to maximum position during any such short interval of time.

2,642,565
CONTROL APPARATUS FOR LAUNDRY AND WASHING MACHINES
Herman Grimson and Herman Davis, Chicago, Ill.
Application September 13, 1952, Serial No. 309,538
5 Claims. (Cl. 340—223)



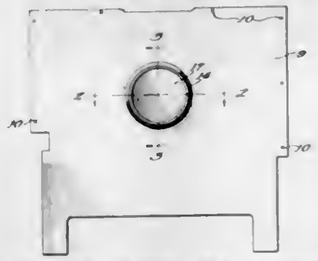
1. A control apparatus for a washing machine designed to accomplish a number of operations

in consecutive order comprising a series of indicators representative of said operations, a drain closure for the washing machine including a duct receiving a compressed air feed, a valve in the duct designed to create a passage from said feed to a continuation of the duct and operable to a position closing the feed, a mechanism having a step-by-step motion and operative to energize said indicators in consecutive order, and an actuator for said mechanism connected to said continuation.

ERRATUM

For Class 340—324 see:
Patent No. 2,642,490

2,642,566
TELEVISION CABINET BACK
Gerard M. Regnier, Chicago, Ill., assignor to Capital Industrial Fabricators, Inc., a corporation of Illinois
Application May 8, 1952, Serial No. 286,838
4 Claims. (Cl. 340—367)

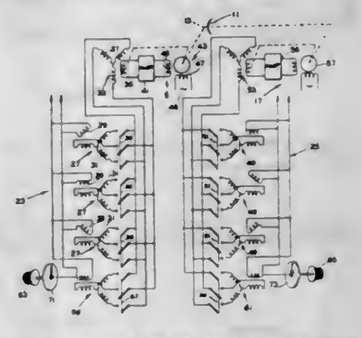


1. A television cabinet back, comprising: A back panel for a cabinet, said panel having an opening through which a tube may project rearwardly; and a cup-shaped cover member of yielding insulating material having a tapered sidewall adapted to be thrust rearwardly partially through said opening, said side wall having notches near its front end adapted to be engaged by marginal portions of the panel about the opening to secure said cover member firmly to said panel by interlocking engagement.

ERRATUM

For Class 340—370 see:
Patent No. 2,652,487 and 2,642,488

2,642,567
CONTROL SYSTEM
Vernon R. Kimball, Maywood, and Adam Drenkard, Jr., Teaneck, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 22, 1949, Serial No. 117,218
10 Claims. (Cl. 343—100)

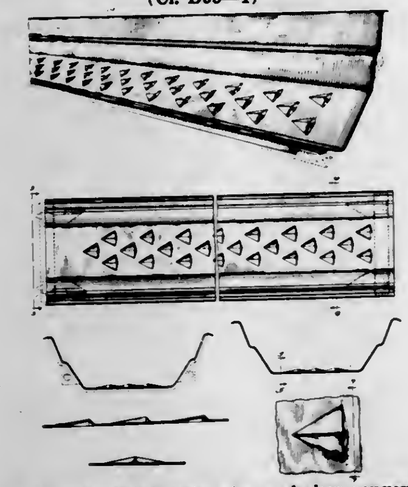


1. In an antenna system, an antenna to be positioned, inductive means for generating a plurality of predetermined signals corresponding to predetermined positions of said antenna, means responsive to said signals for driving said antenna to said positions, and means for selectively impressing one of the signals of said signal generator means on said signal responsive means.

DESIGNS

JUNE 16, 1953

169,834
SHAKER CONVEYER TROUGH
Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 20, 1952, Serial No. 18,983
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a shaker conveyer trough, as shown and described.

169,835
TIRE
William F. Billingsley, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 19, 1952, Serial No. 22,790
Term of patent 14 years
(Cl. D90—20)



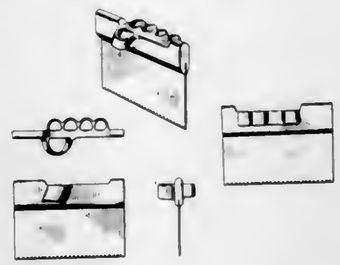
The ornamental design for a tire, as shown.

169,836
TIRE
William F. Billingsley, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 19, 1952, Serial No. 22,791
Term of patent 14 years
(Cl. D90—20)



The ornamental design for a tire, as shown and described.

169,837
SPREADER TOOL
Julius Blander, Brooklyn, N. Y.
Application July 18, 1952, Serial No. 20,682
Term of patent 14 years
(Cl. D54—13)



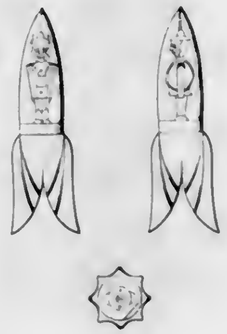
The ornamental design for a spreader tool, as shown.

169,838
TEXTILE FABRIC
Louis Bluhm, New York, N. Y.
Application November 14, 1952, Serial No. 22,293
Term of patent 3½ years
(Cl. D92—1)



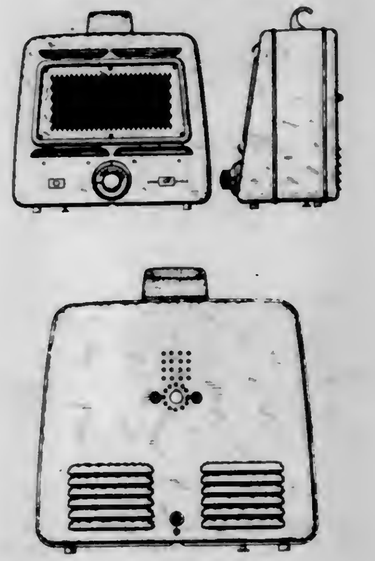
The ornamental design for a textile fabric, substantially as shown and described.

169,839
CLOSURE FOR COLLAPSIBLE TUBES
Christy M. Del Mas, New York, N. Y., assignor to Grace-Mas Enterprises, Inc., New York, N. Y., a corporation of New York
Application August 19, 1952, Serial No. 21,113
Term of patent 14 years
(Cl. D58—26)



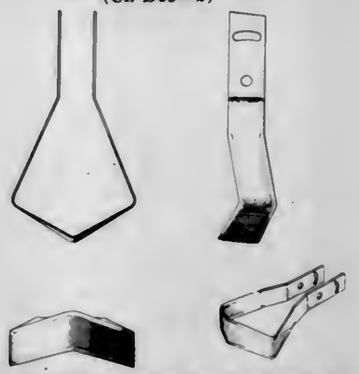
The ornamental design for a closure for collapsible tubes, as shown.

169,840
HEATER
Edward A. Farr, Columbus, Ind., assignor to Arvin Industries, Inc., Columbus, Ind., a corporation of Indiana
Application September 6, 1952, Serial No. 21,370
Term of patent 7 years
(Cl. D81—10)



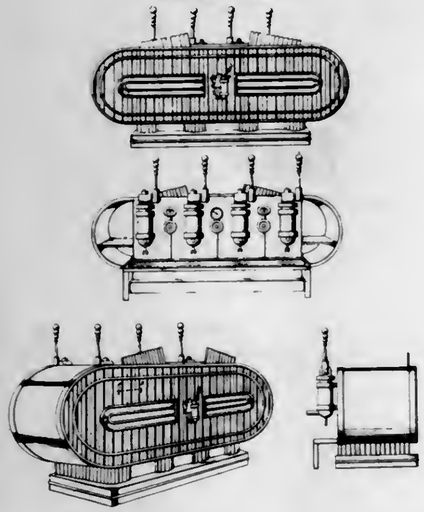
The ornamental design for a heater, as shown and described.

169,841
GARDENING TOOL HEADPIECE
Arthur Fath, Blue Ash, Ohio
Application September 18, 1952, Serial No. 21,517
Term of patent 14 years
(Cl. D35—2)



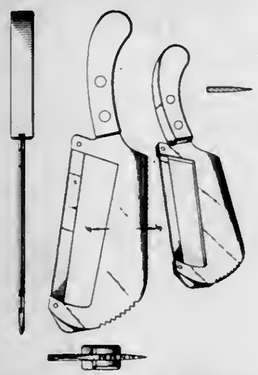
The ornamental design for a gardening tool headpiece, substantially as shown and described.

169,842
COMBINATION PRESSURE COFFEE MAKER AND DISPENSER
Giovanni Gaggia, Milan, Italy
Application June 19, 1951, Serial No. 15,605
In Italy March 24, 1951
Term of patent 14 years
(Cl. D44—26)



The ornamental design for a combination pressure coffee maker and dispenser, as shown.

169,843
COMBINED CLEAVER, TENDERIZER, AND SAW OR SIMILAR ARTICLE
Samuel L. Gerson, Wilmington, Del.
Application March 24, 1953, Serial No. 24,181
Term of patent 14 years
(Cl. D11—1)



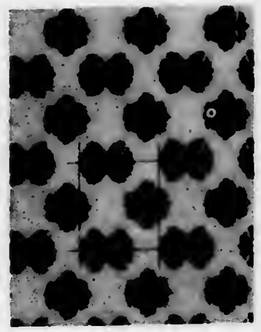
The ornamental design for a combined cleaver, tenderizer, and saw or similar article, substantially as shown..

169,844
TEXTILE FABRIC OR SIMILAR ARTICLE
Annette Holland, New York, N. Y., assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y., a corporation of New York
Application February 19, 1953, Serial No. 23,694
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric or similar article, substantially as shown and described.

169,845
TEXTILE FABRIC OR SIMILAR ARTICLE
Annette Holland, New York, N. Y., assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y., a corporation of New York
Application February 19, 1953, Serial No. 23,695
Term of patent 3½ years
(Cl. D92—1)



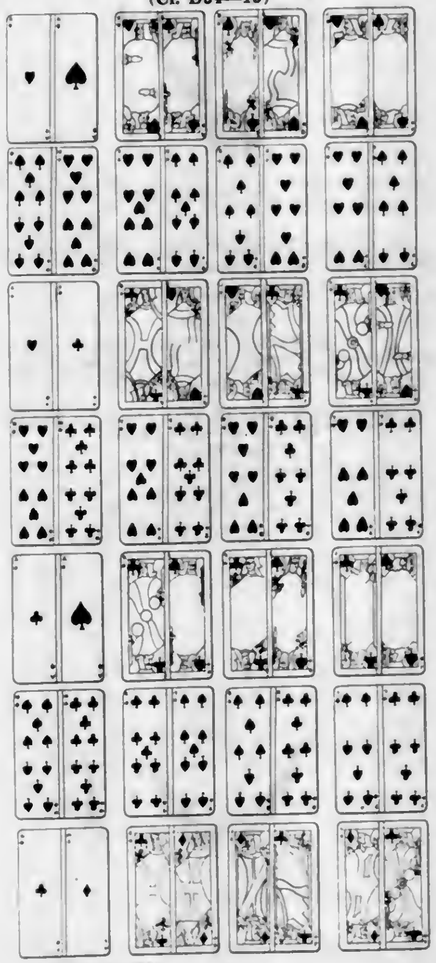
The ornamental design for a textile fabric or similar article, substantially as shown and described.

169,846
TOY BUG
Fred Hotchner, Los Angeles, Calif.
Application August 17, 1951, Serial No. 16,306
Term of patent 14 years
(Cl. D34—2)

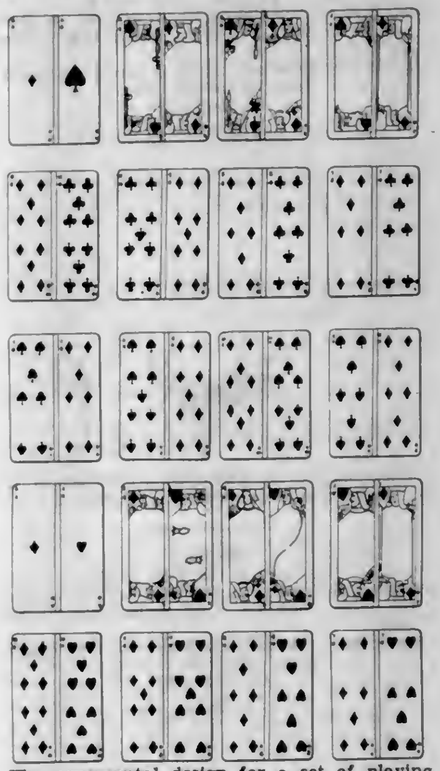


The ornamental design for a toy bug, as shown.

169,847
SET OF PLAYING CARDS
Mahlon Inman, Nashville, Tenn.
Application January 12, 1953, Serial No. 23,106
Term of patent 14 years
(Cl. D34—13)

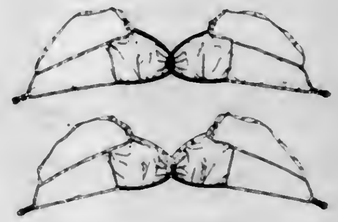


169,847—Continued



The ornamental design for a set of playing cards, as shown and described.

169,848
BRASSIÈRE
Léon Josephson, Paris, France
Application November 18, 1952, Serial No. 22,363
In Great Britain September 13, 1952
Term of patent 14 years
(Cl. D20—4)



The ornamental design for a brassière, as shown.

169,849
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,531
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,850
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,532
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

169,851
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,533
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

169,852
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,534
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

169,853
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,535
Term of patent 7 years
(Cl. D45—16)



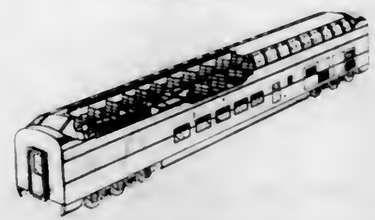
The ornamental design for a necklace or the like, substantially as shown and described.

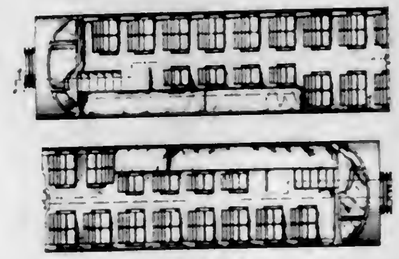
169,854
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application February 10, 1953, Serial No. 23,536
Term of patent 7 years
(Cl. D45—16)



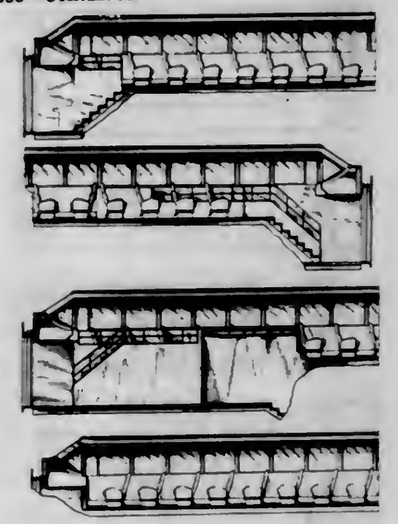
The ornamental design for a necklace or the like, substantially as shown and described.

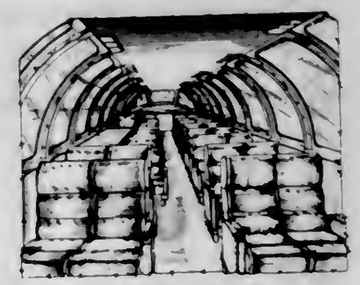
169,855
RAILWAY CAR BODY
Stanley W. Kay, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application June 27, 1952, Serial No. 20,375
Term of patent 14 years
(Cl. D66—1)





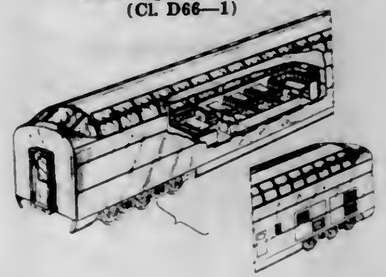
169,855—Continued



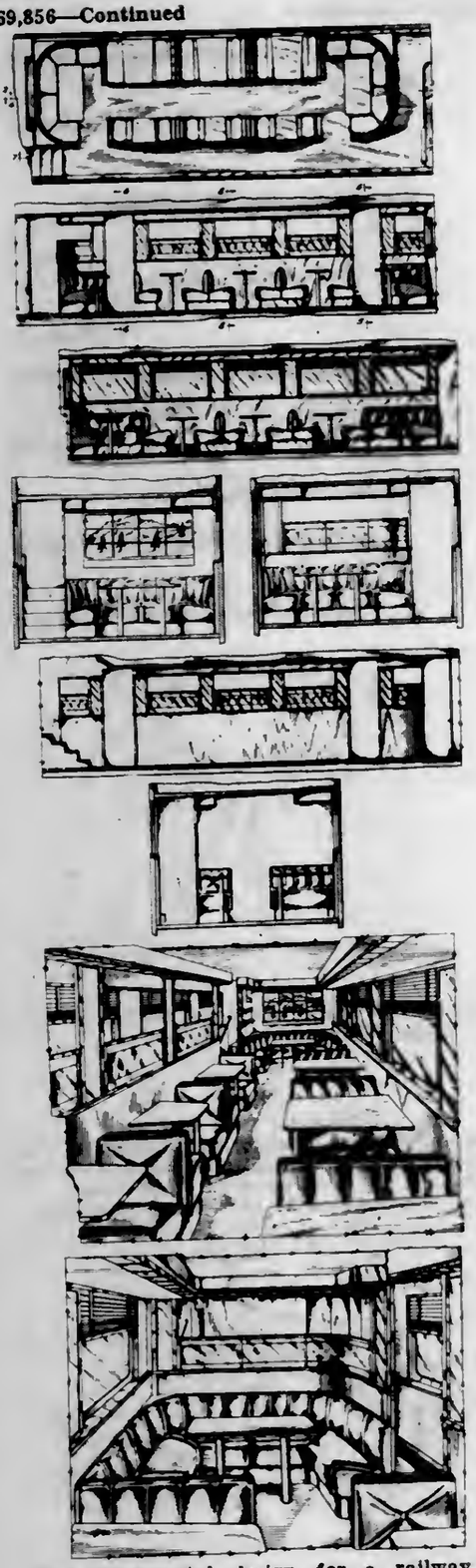


The ornamental design for a railway car body, substantially as shown and described.

169,856
RAILWAY CAR BODY
Stanley W. Kay, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application June 27, 1952, Serial No. 20,376
Term of patent 14 years
(Cl. D66—1)



169,856—Continued



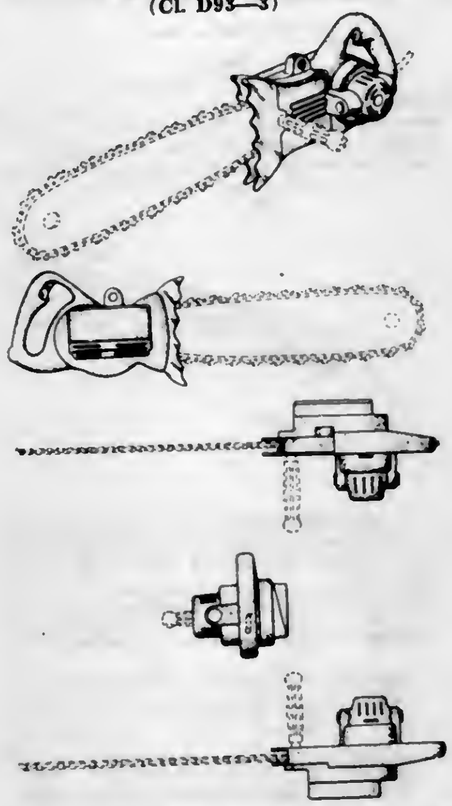
The ornamental design for a railway car body, substantially as shown and described.

169,857
TOY VEHICLE TIRE
Bernard C. Klint, Rockford, Ill., assignor to Bernard C. Klint, Grace Klint, David Nyberg, Emma Nyberg, and Ragnar E. Klint, copartners, doing business at Rockford, Ill., under the firm name of Ny-Lint Tool & Mfg. Co.
Application July 1, 1952, Serial No. 20,431
Term of patent 7 years
(Cl. D90—20)



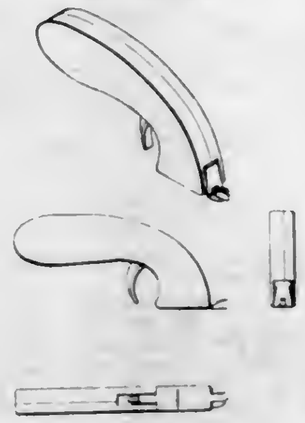
The ornamental design for a toy vehicle tire, substantially as shown and described.

169,858
ELECTRIC CHAIN SAW
Charles A. Latimer and Dean H. Freund, Toledo, Ohio, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio
Application February 20, 1953, Serial No. 23,707
Term of patent 14 years
(Cl. D93—3)



The ornamental design for an electric chain saw, substantially as shown and described.

169,859
STAPLE PULLER
William H. Misson, Los Altos, Calif., assignor to Zip Products Co., a partnership
Application January 9, 1953, Serial No. 23,083
Term of patent 14 years
(Cl. D74—1)



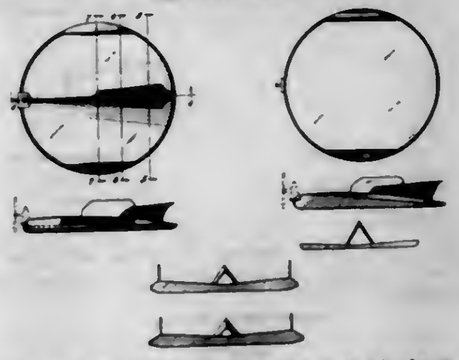
The ornamental design for a staple puller, as shown.

169,860
TEXTILE FABRIC
Edna May Molenaor, Rutherford, N. J., assignor to Everfast Fabrics, Inc., New York, N. Y.
Application November 14, 1952, Serial No. 22,279
Term of patent 7 years
(Cl. D92—1)



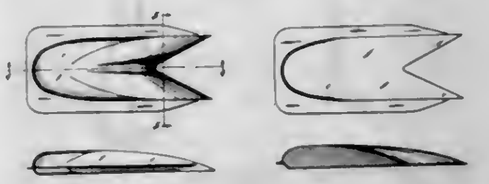
The ornamental design for a textile fabric, substantially as shown and described.

169,861
TOY AIRPLANE OR SIMILAR ARTICLE
Henri J. Myser, Mount Vernon, Ill.
Application May 12, 1952, Serial No. 19,685
Term of patent 14 years
(Cl. D34—15)



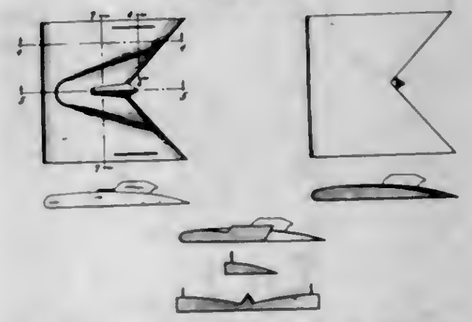
The ornamental design for a toy airplane or similar article, substantially as shown and described.

169,862
TOY AIRPLANE OR SIMILAR ARTICLE
Henri J. Myser, Mount Vernon, Ill.
Application May 12, 1952, Serial No. 19,686
Term of patent 14 years
(Cl. D34—15)



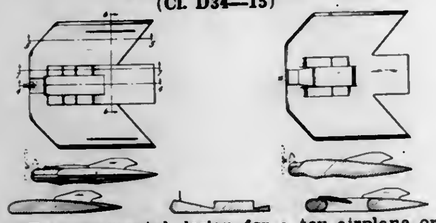
The ornamental design for a toy airplane or similar article, substantially as shown.

169,863
TOY AIRPLANE OR SIMILAR ARTICLE
Henri J. Myser, Mount Vernon, Ill.
Application May 12, 1952, Serial No. 19,687
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy airplane or similar article, substantially as shown.

169,864
TOY AIRPLANE OR SIMILAR ARTICLE
Henri J. Myser, Mount Vernon, Ill.
Application May 17, 1952, Serial No. 19,759
Term of patent 14 years
(Cl. D34—15)



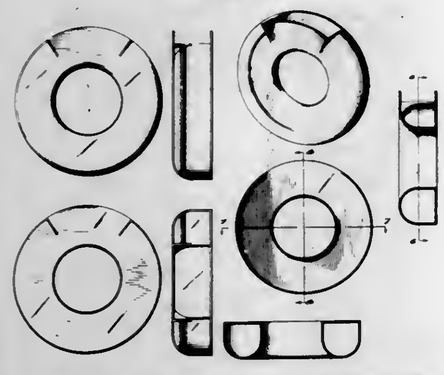
The ornamental design for a toy airplane or similar article, substantially as shown and described.

169,865
STOCKING
Clarence Nye, Reading, Pa.
Application February 20, 1953, Serial No. 23,703
Term of patent 14 years
(Cl. D47—7)



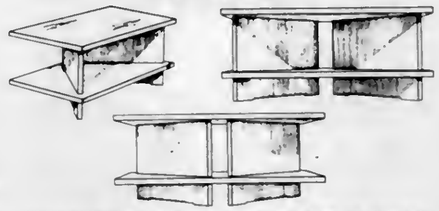
The ornamental design for a stocking, substantially as shown.

169,866
ANNULAR TRANSPARENT AQUARIUM
Earl A. Rice, Mercersburg, Pa.
Application December 18, 1950, Serial No. 13,475
Term of patent 14 years
(Cl. D91—2)



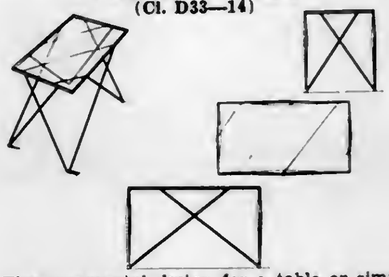
The ornamental design for an annular transparent aquarium, as shown.

169,867
COFFEE TABLE
Roy S. Sanford, Woodbury, Conn., assignor to Sanford Products, Incorporated, Woodbury, Conn., a corporation of Delaware
Application June 26, 1951, Serial No. 15,668
Term of patent 14 years
(Cl. D33—14)



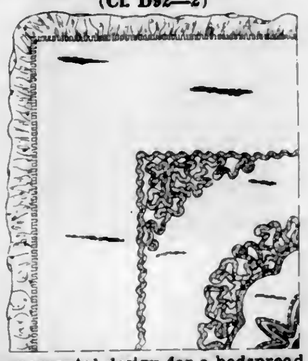
The ornamented design for a coffee table, substantially as shown.

169,868
TABLE OR SIMILAR ARTICLE
Stanley M. Schwartz, Los Angeles, Calif., assignor to Regina Weinstein, Los Angeles, Calif.
Application February 10, 1953, Serial No. 23,528
Term of patent 7 years
(Cl. D33—14)



The ornamental design for a table or similar article, substantially as shown.

169,869
BEDSPREAD OR SIMILAR ARTICLE
Charles Shapiro, New York, N. Y., assignor to Shapiro & Son Curtain Corp., New York, N. Y., a corporation of New York
Application June 27, 1952, Serial No. 20,373
Term of patent 3½ years
(Cl. D92—2)



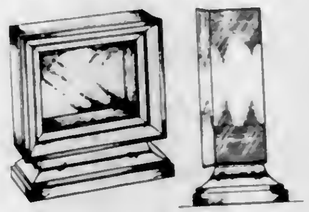
The ornamental design for a bedspread or similar article, substantially as shown and described.

169,870
BEDSPREAD OR SIMILAR ARTICLE
Charles Shapiro, New York, N. Y., assignor to Shapiro & Son Curtain Corp., New York, N. Y., a corporation of New York
Application June 27, 1952, Serial No. 20,372
Term of patent 3½ years
(Cl. D92—2)



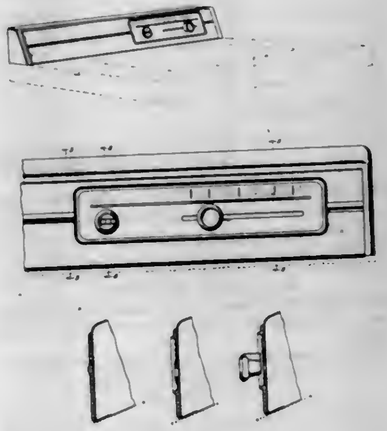
The ornamental design for a bedspread or similar article, substantially as shown and described.

169,871
ILLUMINABLE SHADOW BOX OR SIMILAR ARTICLE
Harold L. Speer and Marcherette K. Speer, Santa Cruz, Calif.
Application November 17, 1952, Serial No. 22,320
Term of patent 7 years
(Cl. D28—20)



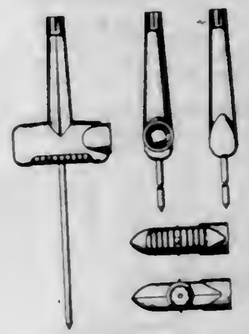
The ornamental design for an illuminable shadow box or similar article, substantially as shown.

169,872
COMBINED TOP AND BACKGUARD CONTROL PANEL FOR A WASHING MACHINE
Bertrand N. Trombley, Birmingham, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 14, 1951, Serial No. 16,633
Term of patent 14 years
(Cl. D49—1)



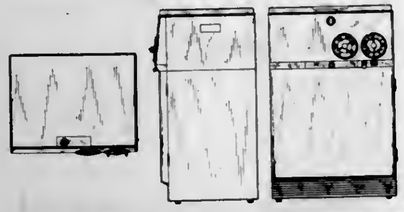
The ornamental design for a combined top and backguard control panel for a washing machine, substantially as shown and described.

169,873
LAWN SPRINKLER OR THE LIKE
Hugh W. Vogl, Wilmette, Ill.
Application January 15, 1953, Serial No. 23,152
Term of patent 14 years
(Cl. D91—1)



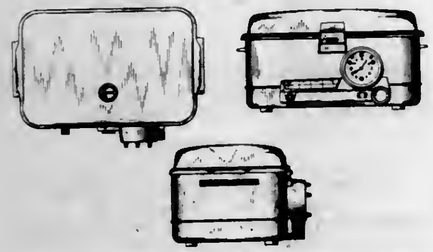
The ornamental design for a lawn sprinkler or the like, substantially as shown.

169,874
COMBINED ELECTRIC ROASTER AND CABINET
Franz Wagner, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis., a corporation of New Jersey
Application March 4, 1953, Serial No. 23,872
Term of patent 14 years
(Cl. D81—10)



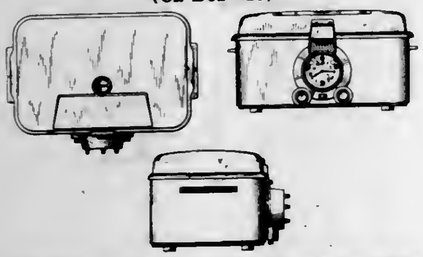
The ornamental design for a combined electric roaster and cabinet, as shown and described.

169,875
ELECTRIC ROASTER
Franz Wagner, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis., a corporation of New Jersey
Application March 4, 1953, Serial No. 23,875
Term of patent 14 years
(Cl. D81—10)



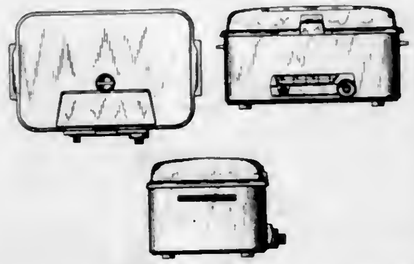
The ornamental design for an electric roaster, as shown.

169,876
ELECTRIC ROASTER
Franz Wagner, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis., a corporation of New Jersey
Application March 4, 1953, Serial No. 23,874
Term of patent 14 years
(Cl. D81—10)



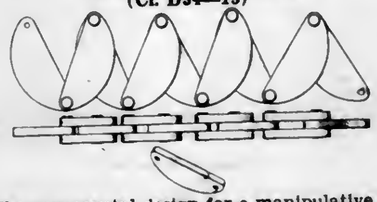
The ornamental design for an electric roaster, as shown.

169,877
ELECTRIC ROASTER
Franz Wagner, Chicago, Ill., assignor to Nesco, Inc., Milwaukee, Wis., a corporation of New Jersey
Application March 4, 1953, Serial No. 23,873
Term of patent 14 years
(Cl. D81—10)



The ornamental design for an electric roaster, as shown.

169,878
MANIPULATIVE TOY
Nathaniel W. Washington, Ephrata, Wash.
Application March 4, 1952, Serial No. 18,764
Term of patent 14 years
(Cl. D34—15)



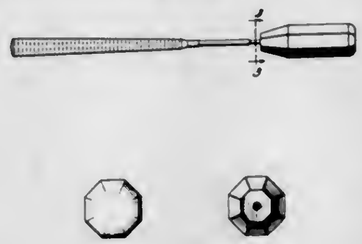
The ornamental design for a manipulative toy, as shown and described.

169,879
TEXTILE FABRIC
Sol Weinberg, New York, N. Y.
Application January 22, 1953, Serial No. 23,247
Term of patent 3½ years
(Cl. D92—1)



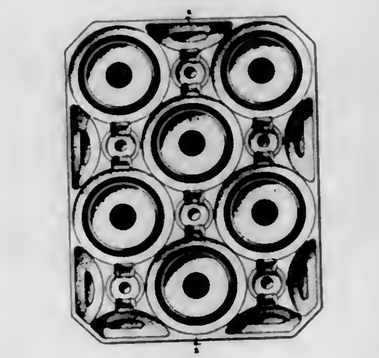
The ornamental design for a textile fabric, substantially as shown.

169,880
PRACTICE GOLF CLUB
Edwin H. Williams, Louisville, Ky.
Application December 31, 1952, Serial No. 22,950
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a practice golf club, substantially as shown.

169,881
PACKING MEMBER FOR FRAGILE ARTICLES
Philip M. Williams, Oakland, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application September 12, 1952, Serial No. 21,430
Term of patent 14 years
(Cl. D58—13)



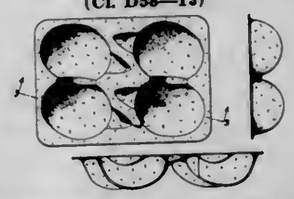
The ornamental design for a packing member for fragile articles, as shown.

169,882
PACKING MEMBER FOR FRAGILE ARTICLES
Philip M. Williams, Oakland, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application September 12, 1952, Serial No. 21,431
Term of patent 14 years
(Cl. D58—13)



The ornamental design for a packing member for fragile articles, as shown.

169,883
PACKING MEMBER FOR FRAGILE ARTICLES
Philip M. Williams, Oakland, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application September 12, 1952, Serial No. 21,432
Term of patent 14 years
(Cl. D58—13)



The ornamental design for a packing member for fragile articles, as shown.

169,884
BOTTLE
Raymond Rogers York, Elmira, N. Y., assignor to Thatcher Glass Manufacturing Company, Inc., Elmira, N. Y., a corporation of New York
Application March 18, 1953, Serial No. 24,067
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a bottle, substantially as shown.

June 23, 1953 Volume 671 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

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PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business June 5, 1953

Total number of patent applications awaiting action, 98,615. Date of oldest new application, August 23, 1952; date of oldest amended application, August 26, 1952.

PATENT EXAMININO DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.		5-27-53	1
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	9-10-52	9-8-52	1466
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	10-8-52	9-17-52	1126
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	10-20-52	10-20-52	1941
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	9-19-52	9-16-52	1468
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	9-26-52	9-24-52	1002
6. BURLE, H., Carbon Chemistry (part)	8-26-52	8-26-52	2583
7. GONSALVES, J. E., Optics; Photography (part)	9-25-52	9-25-52	1573
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	9-25-52	9-22-52	1638
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	9-25-52	9-17-52	1234
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	10-7-52	10-6-52	1315
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	9-8-52	9-12-52	1129
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	9-29-52	9-24-52	1227
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	9-13-52	9-10-52	1259
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	9-29-52	9-29-52	1448
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	9-9-52	9-8-52	1678
16. LOVEWELL, N. N., Television: Telephony; Recorders	9-18-52	9-17-52	1656
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	9-20-52	9-23-52	1580
18. KURZ, J. A., Power Plants; Speed Responsive Devices	10-9-52	10-9-52	670
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	9-24-52	9-23-52	1159
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	10-6-52	10-6-52	1302
21. MADER, R. C., Textiles	9-17-52	9-11-52	1273
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	9-16-52	10-1-52	944
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	9-16-52	9-9-52	844
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	11-1-52	11-5-52	1056
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	9-4-52	9-2-52	1285
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	10-7-52	10-6-52	1546
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	9-25-52	9-19-52	1210
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	10-1-52	9-25-52	1121
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	9-12-52	9-17-52	1175
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	11-7-52	11-7-52	1335
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	9-8-52	9-8-52	2461
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	10-17-52	10-25-52	1239
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	9-16-52	9-26-52	1833
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	9-16-52	9-17-52	1229
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	10-24-52	10-21-52	1161
36. McFADYEN, A. D., Measuring and Testing	10-4-52	10-2-52	1065
37. LEVY, M. L., Electricity-Switches, Welding, Heating	10-10-52	10-20-52	1709
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	10-9-52	10-4-52	1513
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	11-24-52	11-10-52	1708
40. DRUMMOND, E. J., Receptacles (part); Packages	12-13-52	12-10-52	985
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	10-13-52	10-6-52	1510

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	9-17-52	9-17-52	1892
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	9-20-52	9-19-52	1764
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	10-9-52	10-8-52	1329
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	9-11-52	9-5-52	1068
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	9-11-52	9-19-52	1640
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	9-18-52	9-17-52	1848
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	10-1-52	10-1-52	1311
50. BENGEL, W. G., Synthetic Resins; Rubber	11-19-52	11-25-52	1573
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	9-16-52	9-12-52	1615
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	10-30-52	10-23-52	1856
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	10-7-52	10-8-52	970
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	9-22-52	9-18-52	1831
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	10-9-52	9-30-52	961
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	10-22-52	10-18-52	1252
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-25-52	10-16-52	1658
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	9-9-52	9-22-52	1394
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	10-3-52	10-2-52	1412
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	10-1-52	10-1-52	984
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	10-16-52	10-11-52	1185
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	9-17-52	9-10-52	1827
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	9-9-52	9-11-52	1804
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43. (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	9-26-52	9-16-52	822
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	10-4-52	10-1-52	1701
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	11-1-52	11-1-52	1396
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	9-26-52	10-1-52	1574
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	8-23-52	8-27-52	3310
DESIGNS: A—BREHM, G. L., Industrial Arts	2-9-53	2-6-53	900
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	2-6-53	2-16-53	761

Number of new applications received week ending May 15, 1953

PATENTS 1,488 DESIGNS 103 REISSUES 5 TOTAL 1,596

Total number of trade-mark applications awaiting action (including renewals and republications), 10,525, Date of oldest new application, Jan. 12, 1953; date of oldest amended application, Jan. 12, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	1-12-53	1-12-53	2469
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	1-26-53	1-26-53	2484
Renewals (All Classes)	4-8-53	5-18-53	573
Republications (All Classes)	4-13-53	5-5-53	297
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	1-23-53	1-26-53	2434
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	1-15-53	1-12-53	2268

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

AP Parts Corporation, The, Toledo, Ohio. Solid lubricant. Serial No. 634,956, June 23. Class 15.

Abbott Laboratories, North Chicago, Ill. Preparation for bathing and massaging the skin to aid in preventing bed sores, etc. Serial No. 635,867, June 23. Class 18.

Abbott Laboratories, North Chicago, Ill. Anti-heparin compound. Serial No. 636,759, June 23. Class 18.

Abesca Chemical Works, Brooklyn, N. Y. Hand cleaning cream. Serial No. 626,295, June 23. Class 52.

Acacia Mutual Life Insurance Company, Washington, D. C. Estate planning services. Serial No. 636,189, June 23. Class 102.

Acme Steel Company, Chicago, Ill. Floor plates and angle plates. Serial No. 638,824, June 23. Class 12.

Acra Instruments: *See*—
Pacific Universal Products Corporation.

Ajax Iron Works, Corry, Pa. Drilling engines, engine pumps, and parts. Serial No. 640,318, June 23. Class 23.

Aldon Rug Mills, Inc., Philadelphia, Pa. Textile tufted rugs and carpets. Serial No. 640,895, June 23. Class 42.

Allied Drugs, Inc., Hackensack, N. J. Preparation in tablet form for indigestion Serial No. 627,918, June 23. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Preparation for prophylactic management of ambulatory patients. Serial No. 639,306, June 23. Class 18.

All-Sil Welding Metals, Inc., New York, N. Y. Metal cleaning preparations. Serial No. 614,918, June 23. Class 52.

Almo Candy Co., New York, N. Y. Candy. Serial No. 611,874, June 23. Class 46.

American Agricultural Chemical Company, The, New York, N. Y. Phosphorus; compositions containing phosphorus. Serial No. 599,210, June 23. Class 6.

American Agricultural Chemical Company, The, New York, N. Y. Phosphorus; compositions containing phosphorus. Serial No. 599,212, June 23. Class 6.

American Crystal Sugar Company, Denver, Colo. Sugar. Serial Nos. 597,647–9, June 23. Class 46.

American Cyanamid Company, New York, N. Y. Antibiotic. Serial No. 635,284, June 23. Class 18.

American Cyanamid Company, New York, N. Y. Anticholinergic compound. Serial No. 640,770, June 23. Class 18.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial Nos. 628,892–8, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial Nos. 628,900–1, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 628,903, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Ureteral forceps. Serial No. 640,372, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Ureteral stone removing forceps. Serial No. 640,373, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 640,375, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Biopsy punches and components thereof and surgical electrodes. Serial No. 640,376, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Surgical electrode units. Serial No. 640,377, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Surgical electrodes. Serial Nos. 640,378–9, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial Nos. 640,380–2, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Bladder evacuators. Serial No. 640,383, June 23. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial Nos. 640,384–5, June 23. Class 44.

American Heart Association, Inc., New York, N. Y. Research and community service. Serial No. 628,838, June 23. Class 100.

American Laundry Machinery Company, The, Cincinnati, Ohio. Gas heated flatwork ironer. Serial No. 640,184, June 23. Class 24.

American Oil Company, Baltimore, Md. Gasoline, kerosene, lubricating oils, soluble oil, etc. Serial No. 613,662, June 23. Class 15.

American Sponge and Chamois Company, Inc., New York, N. Y. Chamois skins. Serial No. 638,048, June 23. Class 1.

Ames Company, Inc., Elkhart, Ind. Reagent preparation for the determination of chlorides in body fluids. Serial No. 632,068, June 23. Class 18.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Vegetable oil shortening. Serial No. 640,997, June 23. Class 46.

Ansul Chemical Company, Marinette, Wis. Liquid sulfur dioxide, liquid methyl chloride, etc. Serial No. 639,607, June 23. Class 6.

Arkwright, Incorporated, New York, N. Y. Hand soap, face soap, toilet soap, etc. Serial No. 609,839, June 23. Class 52.

Armour and Company, Chicago, Ill. Anti-menorrhagic factor. Serial No. 638,942, June 23. Class 18.

Associated Dye & Print Co. Inc., Paterson, N. J. Treating textile fabrics. Serial No. 624,007, June 23. Class 106.

Associated Dye & Print Co., Inc., Paterson, N. J. Treating fabrics. Serial No. 624,008, June 23. Class 106.

Auerbach, J. L., doing business under the name Ramazan Company, Los Angeles, Calif. Pills to aid in curbing the appetite. Serial No. 623,391, June 23. Class 18.

Austin, J. H., Company: *See*—
Austin, James H.

Austin, James H., doing business as J. H. Austin Company, Charlotte, N. C. Vitamin preparation. Serial No. 634,362, June 23. Class 18.

Astec Corporation, Philadelphia, Pa. Plastic tile. Serial No. 640,543, June 23. Class 12.

Baker Castor Oil Company, The, Jersey City, N. J. Soaps. Serial No. 621,445, June 23. Class 52.

Bakers Associates Incorporated, Chicago, Ill. Management counseling to the bakery industry. Serial No. 627,313, June 23. Class 101.

Bareco Oil Company, Tulsa, Okla. Microcrystalline wax. Serial No. 624,774, June 23. Class 6.

Barnes, S. O., & Son, Inc., Gardena, Calif. Vitamin and mineral tablets. Serial No. 627,314, June 23. Class 18.

Bartells, Raymond O., doing business as The Veldent Company, Los Gatos, Calif. Liner for artificial dentures. Serial No. 633,603, June 23. Class 44.

Beehler & Black Clock Company, Chebeague Island, Maine. Unassembled clock parts. Serial No. 592,356, June 23. Class 27.

Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. Serial No. 629,418, June 23. Class 4.

Bemis, Ken E., Jr., Oakland, Calif. Drive-in restaurant service. Serial No. 635,949, June 23. Class 100.

Bendix Aviation Corporation, Detroit, Mich., and Teterboro, N. J. Electron tubes and for thermal time delay tubes. Serial No. 608,298, June 23. Class 21.

Benevim Corporation, New York, N. Y. Vitaminized iron tonic. Serial No. 625,654, June 23. Class 18.

Best, Frederick A., Watford, England. Rust removing preparation. Serial No. 634,447, June 23. Class 52.

Better Packages, Incorporated, Shelton, Conn. Tape dispensers. Serial No. 635,680, June 23. Class 2.

Blanco, Anthony A., Inc., New York, N. Y., and Fresno, Calif. Fresh grapes, cherries, peaches, etc. Serial No. 619,290, June 23. Class 46.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. Serial Nos. 641,005–6, June 23. Class 42.

Bodine, W. O., assignee: *See*—
Loma Manufacturing Company, The.

Boyd's City Dispatch Incorporated, New York, N. Y. Mailing lists. Serial No. 640,438, June 23. Class 38.

Brecht Candy Company, Denver, Colo. Chocolate pecans and caramel candy. Serial No. 632,463, June 23. Class 46.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic derivative. Serial Nos. 626,300–1, June 23. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin preparation. Serial No. 630,312, June 23. Class 18.

Brooks Paper Company, St. Louis, Mo. Comminuted scrap material to be used as an additive ingredient for incorporation in drilling muds for oil wells, etc. Serial No. 610,507, June 23. Class 12.

Brunner, Oscar A., doing business under the name Victoria Distributors, New York, N. Y. Sheets, pillow cases, and piece goods. Serial No. 641,010, June 23. Class 42.

Buckeye Products Company, The, Cincinnati, Ohio. Liquid core compound used in foundries as a binder for the sand. Serial No. 638,687, June 23. Class 5.

Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Transmissions. Serial No. 631,461, June 23. Class 23.

Burman, C. N., Co., Paterson, N. J. Electrical table lamps, pinup lamps, floor lamps, etc. Serial No. 635,517, June 23. Class 21.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. Serial No. 638,470, June 23. Class 18.

Cabot, Godfrey L., Inc., Boston, Mass. Aluminum oxide. Serial No. 638,827, June 23. Class 6.

Cambridge Industries Company, Cambridge, Mass. Plasticizer. Serial No. 624,223, June 23. Class 6.

Camden Park Greenhouses, Braham, Minn. Box containing earth with a layer of seeds on the top, etc. Serial No. 590,255, June 23. Class 1.

Capewell Manufacturing Company, The, Hartford, Conn. Parachute hardware. Serial No. 631,543, June 23. Class 13.

Cassella Farbwerke Mainkur, Frankfurt am Main Fechenheim, Germany. Chemical products. Serial No. 638,691, June 23. Class 6.

Cat Cay Realty Company, Limited, The, Nassau, Island of New Providence, Bahama Islands, British West Indies. Belt buckles; coins; key rings; etc. Serial No. 620,491, June 23. Class 28.

Caulk, L. D., Company, The, Milford, Del. Elastic dental impression material. Serial No. 641,122, June 23. Class 44.

Chasco, Inc., Baltimore, Md. Chemical liquid paint remover. Serial No. 613,049, June 23. Class 52.

Chemie Grunenthal G. m. b. H., Stolberg im Rheinland, Germany. Remedies for tuberculosis. Serial No. 629,285, June 23. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 636,922, June 23. Class 18.

Chicago and Suburban Livery Association, Chicago, Ill. Renting vehicles. Serial No. 582,164, June 23. Class 105.

Ciba Limited, Basel, Switzerland. Adrenocorticotropic hormone. Serial No. 629,357, June 23. Class 18.

Ciba Limited, Basel Switzerland. Coal tar colors. Serial No. 642,014, June 23. Class 6.

Clairol Incorporated, Stamford, Conn. Hair tinting and coloring preparations. Serial No. 634,237, June 23. Class 51.

Clapp, Otis, & Son, Inc., Boston, Mass. Perfume. Serial No. 639,808, June 23. Class 51.

Clyserol Laboratories, Inc., Oklahoma City, Okla. Liquid enema solution. Serial No. 636,839, June 23. Class 18.

Cohen, Lawrence M., Greensboro, N. C. Electric fans. Serial No. 638,289, June 23. Class 21.

Commercial Solvents Corporation, New York, N. Y. Antibiotic-containing composition. Serial No. 630,121, June 23. Class 18.

Commercial Solvents Corporation, New York, N. Y. Device for subcutaneous implantation of antibiotic-containing pellets into young animals. Serial No. 633,102, June 23. Class 44.

Condu-Block Company, Seattle, Wash. Concrete blocks. Serial No. 627,676, June 23. Class 12.

Cone Mills Inc., New York, N. Y. Turkish towels. Serial No. 637,480, June 23. Class 42.

Confections, Incorporated, Chicago, Ill. Raw unpopped pop corn. Serial No. 629,719, June 23. Class 46.

Conitech, Ltd., New York, N. Y. Artificial respiration apparatus. Serial No. 632,663, June 23. Class 44.

Converto Manufacturing Company: *See*—
Golay, Charles R.

Copperatate Supply Company: *See*—
Loma Manufacturing Company, The.

Crestmont Laboratories, Inc., Philadelphia, Pa. Pharmaceutical preparation. Serial No. 616,588, June 23. Class 18.

Crown Zellerbach Corporation, San Francisco, Calif. Solids of waste sulfite liquor for use as a road binder. Serial No. 639,811, June 23. Class 12.

d-Con Company, Inc., Chicago, Ill. Rodenticides. Serial No. 621,819, June 23. Class 6.

Dalton Film Company, Tulsa, Okla. Publications. Serial No. 612,808, June 23. Class 38.

Davidson Plywood and Lumber Co., Los Angeles, Calif. Lumber and plywood. Serial No. 626,934, June 23. Class 12.

Davies-Young Soap Company, The, Dayton, Ohio. Prepared liquid wax and water emulsion wax. Serial No. 636,323, June 23. Class 4.

De Carlo, Joseph, doing business under the name and style of Northway Pharmacal Company, Rochester, N. Y. Scalp stimulant and hair dressing. Serial No. 632,467, June 23. Class 51.

Deep Rock Oil Corporation, Tulsa, Okla. Lubricating oil, lubricating greases, and gasoline. Serial No. 597,089, June 23. Class 15.

Dell, Samuel M., & Co., Inc., Baltimore, Md. Paint and similar type protective and decorative coating and surfacing brushes. Serial No. 635,690, June 23. Class 29.

Delrac Corporation, Watertown, N. Y. Resin cement. Serial No. 639,160, June 23. Class 12.

Denison Manufacturing Company, The, Asheville, N. C. Granular compound which removes grease and oil. Serial Nos. 630,125–6, June 23. Class 52.

Detroit Acoustical Contracting Co., assignor to Rolliform, Incorporated, Detroit, Mich. Fastening unit to be used for suspending or furring plasterboard base ceilings, etc. Serial No. 621,870, June 23. Class 12.

Dexion Limited, London, England. Metallic structural elements. Serial No. 610,168, June 23. Class 12.

Dickey Manufacturing Company, St. Louis, Mo. Automobile white wall tire cleaner, auto body washing compound, bug stain remover, etc. Serial No. 632,508, June 23. Class 52.

Distillers Company (Biochemicals) Limited, The, Speke, Liverpool, England. Antibiotic preparation. Serial No. 612,898, June 23. Class 18.

Dixie-Portland Flour Mills: *See*—
Stout, Charles B.

Dow Chemical Company, The, Midland, Mich. Synthetic organic chemical. Serial No. 632,775, June 23. Class 6.

Dow Chemical Company, The, Midland, Mich. Synthetic resinous plastics. Serial No. 636,557, June 23. Class 6.

Drake Laboratories, Incorporated, Orange, N. J. Massage lotion used in the treatment of sprains, etc. Serial No. 637,916, June 23. Class 18.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. Serial No. 633,148, June 23. Class 18.

Du-Fast, Inc., New York, N. Y. Rubbing machines. Serial No. 557,912, June 23. Class 23.

Du Four Co., The: *See*—
Roche, Honoria D.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Synthetic staple fiber. Serial No. 636,414, June 23. Class 1.

Eddy, Roger W., Newington, Conn. Musical bird calls. Serial No. 634,035, June 23. Class 36.

Efron, Morris, doing business as Efron and Novick Pickle Works, Passaic, N. J. Dill pickles, sweet mixed pickles, hot mixed pickles, etc. Serial No. 579,310, June 23. Class 46.

Efron and Novick Pickle Works: *See*—
Efron, Morris.

Eisenberg, Jack, Miami, Fla. Tablets used to relieve drowsiness and mental fatigue. Serial No. 624,028, June 23. Class 18.

Ekco Products Company, assignee: *See*—
Lusto Company, Inc.

Electric Steel Foundry, Portland, Oreg. Various and sundry metal hooks. Serial No. 579,866, June 23. Class 13.

Electric Steel Foundry, Portland, Oreg. Pulp mill equipment. Serial No. 579,867, June 23. Class 23.

Elraco Engineering Company, Hoboken, N. J. Soot removing chemical preparation. Serial No. 630,401, June 23. Class 52.

Ethicon Suture Laboratories Incorporated, New Brunswick, N. J. Sutures and ligatures. Serial No. 639,364, June 23. Class 44.

Fairfield Laboratories, Inc., Plainfield, N. J. Germicidal, deodorant and disinfectant composition. Serial No. 627,054, June 23. Class 18.

Fansteel Metallurgical Corporation, North Chicago, Ill. Battery charger units, rectifier cells, transformers and resistance units, etc. Serial No. 640,557, June 23. Class 21.

Farmcraft Feeds, Inc., Des Moines, Iowa. Livestock and poultry feed balancer or supplement. Serial No. 627,934, June 23. Class 18.

Fear, Fred, & Co., Brooklyn, N. Y. Coloring dyes. Serial No. 641,287, June 23. Class 6.

Featherland Farm Incorporated, Sudbury, Mass. Baby chicks and hatching eggs. Serial No. 636,518, June 23. Class 1.

Federal Nut Co., Inc., New York, N. Y. Salted nuts. Serial No. 614,044, June 23. Class 46.

Fink, Joseph H., doing business as National Bird Control Laboratories, Chicago, Ill. Chemical compounds. Serial No. 608,864, June 23. Class 6.

Firmenich Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals used as a base or an ingredient in perfumery. Serial No. 637,433, June 23. Class 51.

Firth Sterling, Inc., Pittsburgh, Pa., by change of name from Firth Sterling Steel & Carbide Corporation. Steel bars, steel disks, forgings, etc. Serial No. 623,880, June 23. Class 14.

Firth Sterling Steel & Carbide Corporation: *See*—
Firth Sterling, Inc.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 629,789, June 23. Class 42.

"4711" Limited, Beverly Hills, Calif. Baby oil shampoo. Serial No. 636,598, June 23. Class 52.

Fox River Paper Corporation, Appleton, Wis. Writing paper, and for wedding paper. Serial No. 640,203, June 23. Class 37.

Gehlar, Mark G., doing business as Oregon Fruit Products Co., Salem, Oreg. Canned fruits and canned berries. Serial No. 635,031, June 23. Class 46.

General Electric Company, Schenectady, N. Y. Television broadcast receivers, and radio and phonograph combinations incorporating television broadcast receivers. Serial No. 605,515, June 23. Class 21.

General Motors Corporation, Detroit, Mich. Locks and keys. Serial No. 643,152, June 23. Class 25.

General Tire & Rubber Company, The, Akron, Ohio. Cold cure adhesive cement and rim and gasket shellac adhesive compound. Serial No. 607,426, June 23. Class 5.

Georgia Lumber and Veneer Corporation, Toomsboro, Ga. Plywood. Serial No. 635,593, June 23. Class 12.

Gift Horse Creations: *See*—
Stackpole, Milton E.

Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Home permanent waving kits. Serial No. 636,221, June 23. Class 44.

Givier Products Company: *See*—
Givier, W. S.

Givier, W. S., doing business as Givier Products Company, Chicago, Ill. Vitaminized mineral feed supplements. Serial No. 630,595, June 23. Class 18.

Golay, Charles R., doing business under the name and style of Converto Manufacturing Company, Cambridge City, Ind. Automotive truck bodies: farm wagons; trailers. Serial No. 622,590, June 23. Class 19.

Golden, Perry, doing business under the name Lampo Products, New York, N. Y. Hair conditioning preparation. Serial No. 639,366, June 23. Class 51.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Electrical insulating tape solutions of insulating material. Serial No. 582,290, June 23. Class 21.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Adhesives. Serial No. 582,291, June 23. Class 5.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Liquid and paste polish. Serial No. 582,292, June 23. Class 4.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Home freezers. Serial No. 582,296, June 23. Class 31.

Great Western Sugar Company, The, Denver Colo. Beet seed. Serial Nos. 638,533–5, June 23. Class 1.

Gretener, Dr. Edgar, A. G., Zurich, Switzerland. Photographic films and sensitized photographic papers. Serial No. 639,930, June 23. Class 26.

Gross, Samuel P., Inc., Philadelphia, Pa. Textile fabrics. Serial No. 639,327, June 23. Class 42.

Haloid Company, The, Rochester, N. Y. Cleaners. Serial No. 636,289, June 23. Class 52.

Hamilton, John W., Columbia, S. C. Finger rings. Serial Nos. 640,681–2, June 23. Class 28.

Hanover Cordage Company, Hanover, Pa. Coarse-finish twine. Serial No. 642,106, June 23. Class 7.

Hanover Cordage Company, Hanover, Pa. Hemp twine. Serial No. 642,107, June 23. Class 7.

Hanover Cordage Company, Hanover, Pa. White-fibre twines. Serial No. 642,108, June 23. Class 7.

Hanover Cordage Company, Hanover, Pa. White-fibre twine. Serial No. 642,109, June 23. Class 7.

Hanover Cordage Company, Hanover, Pa. Twine. Serial No. 642,110, June 23. Class 7.

Hanover Cordage Company, Hanover, Pa. Tube rope, wall-paper twine, jute wrapping twine, etc. Serial No. 642,111, June 23. Class 7.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Polishing, brushing, and buffing wheels, and compositions for buffing, polishing, etc. Serial No. 635,828, June 23. Class 4.

Hastogo Laboratories, Inc., Alexandria, La. Gasoline additive. Serial No. 636,127, June 23. Class 15.

Hebberd, Arthur E., La Crosse, Wis. Cosmetic type deodorant and cologne. Serial No. 636,849, June 23. Class 51.

Heise, Herman A., Milwaukee, Wis. Complementary pairs of magnetized metallic indicators. Serial No. 626,248, June 23. Class 26.

Helenhart Novelty Corporation, New York, N. Y. Molded plastic toys and games. Serial No. 600,434, June 23. Class 22.

Heyden Chemical Corporation, New York, N. Y. Synthetic resinous particles. Serial No. 620,852, June 23. Class 6.

Hilliard, Joseph, doing business as Joseph Northwest, Yakima, Wash. Fresh apples. Serial No. 642,659, June 23. Class 46.

Hlodu Products Mfg. Corp., Chicago, Ill. Face creams, face powders, body powders, etc. Serial No. 619,999, June 23. Class 51.

Hockensmith, John B., doing business as John's Hair Stylist or Johns Hollywood Beauty Salon, Knoxville, Tenn. Permanent wave lotion. Serial No. 629,109, June 23. Class 51.

Holley Carburetor Company, Detroit, Mich. Carburetors, jet engine fuel controls, governors and parts thereof. Serial No. 576,208, June 23. Class 23.

Hollywood Shoe Polish, Inc., Richmond Hill, N. Y. Shoe polish. Serial Nos. 637,374–5, June 23. Class 4.

Homan, H. & Co. N. V., Oegstgeest, Netherlands. Flower bulbs. Serial No. 627,189, June 23. Class 1.

Houghton, E. F., & Co., Philadelphia, Pa. Textile mill leathers, namely leather check straps. Serial No. 603,872, June 23. Class 28.

Hulman and Company, Rumford, R. I. Sodium hexametaphosphate. Serial No. 642,651, June 23. Class 6.

Iden Associates, Chicago, Ill. Glass fabric. Serial No. 638,799, June 23. Class 42.

Ilford, Limited, Ilford, Essex, England. Photographic developers. Serial No. 642,654, June 23. Class 6.

Industrial Garment Service, Inc., Chicago, Ill. Towel supply service. Serial No. 634,901, June 23. Class 100.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Portable, hand supported electric tools. Serial No. 636,710 June 23. Class 21.

International Milk Processors, Inc., assignee: *See*—
Med-O-Milk, Inc.

International Molded Plastics, Inc., Cleveland, Ohio. Tumblers made of glass. Serial No. 627,944, June 23. Class 33.

International Sisal Company, Minneapolis, Minn. Sweeping compound. Serial No. 631,620, June 23. Class 52.

Jackson-Mitchell Pharmaceuticals, Inc., Culver City, Calif. Tablet formulation. Serial No. 632,426, June 23. Class 18.

Jacobus', A. G., Sons Inc., Verona, N. J. Painting rollers. Serial No. 627,686, June 23. Class 29.

Jasmine Vineyards, Delano, Calif. Fresh grapes. Serial No. 643,962, June 23. Class 46.

John's Hair Stylist: *See*—
Hockensmith, John B.

Johns Hollywood Beauty Salon: *See*—
Hockensmith, John B.

Joseph Northwest: *See*—
Hilliard, Joseph.

June Lamp Manufacturing Company, Baltimore, Md. Electric table and boudoir lamps and shades therefor. Serial Nos. 640,461–2, June 23. Class 21.

Keiller, James, & Son, Ltd., Inc., Baltimore, Md. Marmalade. Serial No. 549,935, June 23. Class 46.

Kelser, Harold L., doing business as Medfoam Products Company, Fremont, Ohio. Elastic roller bandages. Serial No. 640,636, June 23. Class 44.

Kennametal Inc., Latrobe, Pa. Titanium carbon compositions, and particularly high temperature compositions. Serial No. 624,836, June 23. Class 14.

Kentile, Inc., Brooklyn, N. Y. Adhesive. Serial No. 639,170, June 23. Class 5.

Kentile, Inc., Brooklyn, N. Y. Wax. Serial No. 639,171, June 23. Class 4.

Kentile, Inc., Brooklyn, N. Y. Adhesive. Serial No. 639,172, June 23. Class 5.

Kentile, Inc., Brooklyn, N. Y. Adhesives and pastes. Serial No. 639,177, June 23. Class 5.

Kenya Gem Corporation, Philadelphia, Pa. Unset synthetic gems and synthetic gems set in jewelry mountings. Serial No. 623,309, June 23. Class 28.

Kerr, Alexander H., and Company, Incorporated, Los Angeles, Calif. Structural glass panels. Serial No. 640,160, June 23. Class 12.

Kingsford Chemical Co., Iron Mountain, Mich. Charcoal briquets. Serial No. 638,367, June 23. Class 1.

Kilpatein, Tobias, Inc., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 630,193, June 23. Class 39.

Koppers Company, Inc., Pittsburgh, Pa. Bituminous emulsions and suspensions. Serial No. 628,003, June 23. Class 12.

Korman, Loraine H., Chicago, Ill. Medicinal salves. Serial No. 567,148, June 23. Class 18.

Krey Packing Company, St. Louis, Mo. Hams. Serial No. 597,766, June 23. Class 46.

La Gaine Scandale, Lyon, France. Stockings for use by persons having varicose veins. Serial No. 631,210, June 23. Class 44.

Lambert Company, The, doing business as John Hudson Moore Co. Division of The Lambert Company, Jersey City, N. J., and New York, N. Y. Cologne, after-shaving lotion, hair lotion, etc. Serial No. 634,790, June 23. Class 51.

Lambert Company, The, St. Louis, Mo. Dentifrice and mouthwash. Serial No. 637,830, June 23. Class 51.

Lambert Company, The, St. Louis, Mo. Dentifrice. Serial No. 639,180, June 23. Class 51.

Lambert Company, The, St. Louis, Mo. Dentifrice. Serial No. 642,666, June 23. Class 51.

Lampo Products: *See*—
Golden, Perry.

Larsen Products Corporation, Bethesda, Md. Adhesive preparation. Serial No. 641,556, June 23. Class 5.

Larson Laboratories, Inc., Erie, Pa. Medicated foot cream and lotion. Serial No. 631,355, June 23. Class 18.

Lavit, Inc, New York, N. Y. Home dental cleaner. Serial No. 635,136, June 23. Class 51.

Lee, Johny, of California, Los Angeles, Calif. Children's, girls' and misses' blouses, skirts, jumpers, etc. Serial No. 632,679, June 23. Class 39.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 639,318, June 23. Class 18.

Lind, Farris C., Boise, Idaho. Gasoline filling station services. Serial No. 630,421, June 23. Class 103.

Lino Paste Co., Chicago, Ill. Composition in the nature of a solvent. Serial No. 641,387, June 23. Class 52.

Lip-Off Co.: *See*—
Peterson, Russell A.

Logan Co., Louisville, Ky. Metal step railings and metal porch railings. Serial No. 629,441, June 23. Class 12.

Loma Manufacturing Company, The, assignor to W. O. Bodine, doing business as Copperstate Supply Company, Phoenix, Ariz. Kiln-fired glazed earthenware. Serial No. 626,465, June 23. Class 30.

Lumber Dealers, Inc., Denver and Pueblo, Colo., and Billings, Mont. Insulation and other wall board, batt or loose insulation, asphalt and asbestos roofing, etc. Serial No. 588,647, June 23. Class 12.

Lusto Company, Inc., assignor to Ekco Products Company, Chicago, Ill. Compound for polishing copper, stainless steel, etc. Serial No. 603,533, June 23. Class 4.

Macmillan Petroleum Corporation, Los Angeles, Calif. Lubricating oils and greases. Serial No. 635,879, June 23. Class 15.

Mantua Metal Products Co., Inc., Woodbury Heights, N. J. Model or miniature railway cars and equipment. Serial No. 645,048, June 23. Class 22.

Manufacture de Machines du Haut-Rhin, Mulhouse-Bourtzwiller (Haut-Rhin), France. Machine tools. Serial No. 620,738, June 23. Class 23.

Marcelle Cosmetics, Inc., Chicago, Ill. Pharmaceutical ointment. Serial No. 629,741, June 23. Class 18.

Marglen, Juliette, Inc., Los Angeles and Hollywood, Calif. Preparations for repairing, preserving, and beautifying finger nails and toe nails. Serial Nos. 632,165–6, June 23. Class 51.

Marsh Wall Products, Inc., Dover, Ohio. Fabricated wall and ceiling panels. Serial No. 635,605, June 23. Class 12.

Marshall-Wells Company, Duluth, Minn. Laundry washing machines and laundry dryers. Serial No. 642,827, June 23. Class 24.

Marx, Louis, & Co., Inc., New York, N. Y. Toy pistol. Serial No. 643,396, June 23. Class 22.

Mastic Asphalt Corporation, South Bend, Ind. Insulating siding. Serial No. 626,095, June 23. Class 12.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Mazurkiewicz, Alexander, doing business as Petroleum Laboratories, Long Island City, N. Y. Fuel oil additives and combustion catalysts. Serial No. 623,772, June 23. Class 15.

McAfee Candy Co., Inc., Macon, Ga. Candy. Serial No. 640,405, June 23. Class 46.

Medella, Thomas, doing business as Thos. Medella Co., St. Paul, Minn. Preparation for hair treatment, eczema, skin itch, old sores, etc. Serial No. 638,732, June 23. Class 18.

Medella, Thos., Co.: *See*—
Medella, Thomas.

Medfoam Products Company: *See*—
Keiser, Harold L.

Med-O-Milk, Inc., East Stanwood, Wash., assignor to International Milk Processors, Inc., Chicago, Ill. Canned whole fresh milk. Serial No. 617,882, June 23. Class 46.

Mennen Company, The, Newark, N. J. Skin lotion. Serial No. 592,328, June 23. Class 51.

Merrimack Manufacturing Company, assignor to Merrimack Manufacturing Company (1952), Lowell, Mass. Textile fabrics. Serial No. 633,069, June 23. Class 42.

Merrimack Manufacturing Company (1952), assignee: *See*—
Merrimack Manufacturing Company.

Mexico Refractories Company, Mexico, Mo. Refractory mixture for coating ingot mould stools. Serial No. 627,519, June 23. Class 12.

Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. House trailers. Serial No. 643,698, June 23. Class 19.

Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. House trailers. Serial Nos. 643,700–1, June 23. Class 19.

Miller, Lee C., Sr., doing business as Zip Products Co., Clyde, Ohio. Rust and stain remover. Serial No. 619,841, June 23. Class 52.

Miller, Sam S., doing business as Ohio First Aid & Pharmacal Company, Cleveland, Ohio. Instrument for removing foreign particles from the eye. Serial No. 619,842, June 23. Class 44.

Millers Falls Company, Greenfield, Mass. Planes, braces, auger handles, etc. Serial No. 582,170, June 23. Class 23.

Mineral-Ite Corp., Brigantine, N. J. Self-handling plastic-surfacing composition for exterior and interior walls. Serial No. 604,312, June 23. Class 12.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Electrical insulating plastic sheet material. Serial No. 630,944, June 23. Class 21.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Rubber adhesive. Serial No. 641,197, June 23. Class 5.

Mission Manufacturing Company, Houston, Tex. Packing, namely, pump packing, etc. Serial Nos. 637,068–9, June 23. Class 35.

Modrak, Michael, Gary, Ind. Sterilizing detergent. Serial No. 619,581, June 23. Class 52.

Montenier, Julea, Chicago, Ill. Hair shampoo. Serial No. 634,206, June 23. Class 52.

Moore, John Hudson, Co. Division of The Lambert Company: *See*—
Lambert Company, The

Morris, Norman M., Corporation, New York, N. Y. Watches and clocks. Serial No. 642,831, June 23. Class 27.

Moylan, W. Staunton, Philadelphia, Pa. Zipper lubricating device. Serial No. 605,111, June 23. Class 23.

Music Circus: *See*—
Terrell, St. John.

National Bird Control Laboratories: *See*—
Fink, Joseph H.

Nightingale, Francis G., Waco, Tex. Preparation for treatment of gallstones. Serial No. 638,546, June 23. Class 18.

Nopco Chemical Company, Harrison, N. J. Fat-soluble vitamin concentrates, vitamin-containing solids. Serial No. 606,791, June 23. Class 18.

Northern Milling Company, Wausau, Wis. Dairy, cattle, stock, swine, pigeon and horse feeds; calf meal; poultry scratch feeds, etc. Serial No. 627,767, June 23. Class 46.

Northway Pharmacal Company: *See*—
De Carlo, Joseph.

Nova Sales Co., Trenton, N. J. Shingles and doors. Serial No. 613,678, June 23. Class 12.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Watches. Serial No. 621,097, June 23. Class 27.

Oakley, Annie Enterprises, Inc., assignee: *See*—
Oakley, Annie, Enterprises.

Ohio First Aid & Pharmacal Company: *See*—
Miller, Sam S.

Oliger, J. C., Seed Company, Akron, Ohio. Lawn seeds and field seeds. Serial No. 624,754, June 23. Class 1.

Oppenheim, Marvin, doing business as Precision Pharmacal, Cleveland Heights, Ohio. Antiseptic emulsion. Serial No. 612,029, June 23. Class 18.

Oregon Fruit Products Co.: *See*—
Gehlar, Mark G.

Oulman, Theodore D., doing business under the assumed name of Pronto Sales, Portland, Oreg. Numbering machines and date stamps. Serial No. 631,020, June 23. Class 23.

Pacific Universal Products Corporation, doing business under the name and style of Acra Instruments, Pasadena, Calif. Liquid for cleaning glass optical surfaces. Serial No. 636,249, June 23. Class 52.

Packers Tar Soap, Inc., Mystic, Conn. Soap. Serial No. 632,320, June 23. Class 52.

Panther Oil & Grease Mfg. Co., Fort Worth, Tex. Asphalt material. Serial No. 630,386, June 23. Class 12.

Patch, E. L., Company, The, Stoneham, Mass. Analeptic tablet. Serial No. 621,899, June 23. Class 18.

Peabody Coal Company, Chicago, Ill. Coal. Serial No. 632,487, June 23. Class 1.

Pelahatchie Poultry Company, Pelahatchie, Miss. Dressed poultry. Serial No. 636,603, June 23. Class 46.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Construction cement. Serial No. 623,256, June 23. Class 12.

Peterson, Russell A., doing business under the fictitious name Lip-Off Co., Lakeport, Calif. Cleansing liquid. Serial No. 630,614, June 23. Class 52.

Petroleum Laboratories: *See*—
Mazurkiewicz, Alexander.

Petroleum Solvents Corporation, New York, N. Y. Oils. Serial No. 622,311, June 23. Class 15.

Peverada, Louis, doing business under the name and style of Salad Queen Food Products, Portland, Maine. Popcorn seasoning. Serial No. 603,938, June 23. Class 46.

Pharmaco, Inc., Kenilworth, N. J. Oral antiseptic, deodorant preparation. Serial No. 635,232, June 23. Class 18.

Philipp Brothers Chemicals, Inc., New York, N. Y. Arabic, copal, karaya, locust bean, tall oil, gum and wood rosin, etc. Serial No. 634,478, June 23. Class 1.

Philipp Brothers Chemicals, Inc., New York, N. Y. Ceresin wax and paraffin wax. Serial No. 634,480, June 23. Class 15.

Phillips Manufacturing Company, Chicago, Ill. Compounds for degreasing metal parts. Serial No. 630,389, June 23. Class 52.

Phillips Petroleum Company, Bartlesville, Okla. Carbon compounding material. Serial No. 575,424, June 23. Class 6.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Elmer Pharmacal Company, Minneapolis, Minn. Medical preparation—namely, a powder useful as a blood solvent and detergent. Serial No. 641,566, June 23. Class 52.

Plastic Binding Corporation, Chicago, Ill. Liquid cementitious adhesive. Serial No. 633,629, June 23. Class 5.

Polymark Limited, London, England. Adhesive tapes. Serial No. 640,062, June 23. Class 5.

Popper Watch Co. Inc., New York, N. Y. Watches. Serial No. 641,085, June 23. Class 27.

Power Coal Company, Kansas City, Mo. Coal. Serial No. 638,552, June 23. Class 1.

Precision Pharmacal: *See*—
Oppenheim, Marvin.

Pronto Sales: *See*—
Oulman, Theodore D.

Quaker Chemical Products Corporation, Conshohocken, Pa. Chemical additives. Serial No. 642,904, June 23. Class 6.

Quaker Pacific Rubber Company, San Francisco, Calif. Plastic hose. Serial No. 642,302, June 23. Class 35.

Ramapo Piece Dye Works, Inc., Sloatsburg, N. Y. Finishing of textile fabrics to render them crease resistant. Serial No. 597,166, June 23. Class 106.

Ramazan Comyany: *See*—
Auerbach, J. L.

Ransom, D., Son and Company, Buffalo, N. Y. Liniment. Serial No. 633,318, June 23. Class 18.

Ransom, D., Son and Company, Buffalo, N. Y. Syrup compound for minor coughs due to simple colds. Serial No. 635,320, June 23. Class 18.

Ransom, D., Son and Company, Buffalo, N. Y. Ointment. Serial No. 635,321, June 23. Class 18.

Rayette, Inc., St. Paul, Minn. Shampoos. Serial No. 638,271, June 23. Class 52.

Red Dot Laboratories, Florence, S. C. Preparation for the extermination of roaches, water bugs, etc. Serial No. 597,842, June 23. Class 6.

Red River Chemical Co., Philadelphia, Pa. Preparation for the treatment of athlete's foot, ringworm, and other fungicidal infections. Serial No. 637,720, June 23. Class 18.

Reefer-Galler, Incorporated, New York, N. Y. Insecticides. Serial No. 641,574, June 23. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions thereof. Serial No. 637,721, June 23. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions containing the same for bonding, laminating, and adhesive purposes. Serial No. 637,722, June 23. Class 5.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions thereof. Serial No. 637,723, June 23. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions containing the same for bonding, laminating, and adhesive purposes. Serial No. 638,103, June 23. Class 5.

Repello Products Company, Chicago, Ill. Odor dispersing candle. Serial No. 634,807, June 23. Class 6.

Revlon Products Corporation, New York, N. Y. Lipstick, nail enamel, face powder, etc. Serial No. 634,005, June 23. Class 51.

Richfield Oil Corporation, Los Angeles, Calif. Additive for heating oils and fuel oils. Serial No. 627,358, June 23. Class 15.

Rigo Manufacturing Co., Inc., Nashville, Tenn. Detergent. Serial No. 635,097, June 23. Class 52.

Ritter Company, Inc., Rochester, N. Y. Dental and medical equipment stands. Serial No. 641,466, June 23. Class 44.

Roche, Honoria D., doing business as The Du Four Co., Washington, D. C. Massage cream, peach bloom facial tint, cuticle cream, etc. Serial Nos. 634,345–6, June 23. Class 51.

Rolliform, Incorporated, assignee: *See*—
Detroit Acoustical Contracting Co.

Rolophene Co.: *See*—
Wetherill, Ira.

Romeo, Anthony, trading and doing business as Romeo's Hair Clinic, Camden, N. J. Home treatment kits, containing medicinal ingredients, etc. Serial No. 635,326, June 23. Class 18.

Romeo's Hair Clinic: *See*—
Romeo, Anthony.

Rondette, New York, N. Y. Jewelry. Serial No. 615,724, June 23. Class 28.

Ross & Rowe, Inc., New York, N. Y. Lecithin, an oil soluble emulsifier for food purposes. Serial No. 630,799, June 23. Class 46.

Rubinstein, Helena, Inc., New York, N. Y. Estrogenic hormone cream and oil, and estrogenic hormone hand lotion, etc. Serial No. 634,549, June 23. Class 51.

Safway Steel Products, Inc., Milwaukee, Wis. Shores and portable and permanent grandstands and bleachers. Serial No. 639,456, June 23. Class 12.

Salad Queen Food Products: *See*—
Peverada, Louis.

Sanavene Manufacturing Co., St. Louis, Mo. Liquid chemical cleaning preparation. Serial No. 639,191, June 23. Class 52.

Schaik Chemical Company, Los Angeles, Calif. Polishing wax. Serial No. 570,384, June 23. Class 4.

Schering Corporation, Bloomfield, N. J. Ophthalmic preparation. Serial No. 630,399, June 23. Class 18.

Schering Corporation, Bloomfield, N. J. Sedative and anti-convulsant. Serial No. 638,814, June 23. Class 18.

Schmetz Needle Corporation, New York, N. Y. Sewing machine needles. Serial No. 624,053, June 23. Class 23.

Scholler Brothers, Inc., Philadelphia, Pa. Antiseptic treatment for rayon, nylon, other synthetic fibers, etc. Serial No. 641,094, June 23. Class 6.

Schrack, Leon C., Columbus, Ohio. Cleaning carpets, rugs, and upholstered furniture. Serial No. 598,606, June 23. Class 103.

Seaplant Chemical Corporation, New Bedford, Mass. Refined Irish moss extractives used in toothpaste, and refined red seaweed extractives, etc. Serial No. 630,035, June 23. Class 51.

Security Mills, Inc., Newton, Mass., and New York, N. Y. Knitted fabrics. Serial No. 637,006, June 23. Class 42.

Seneca Coal & Iron Corporation, New York, N. Y. Coal and coke. Serial No. 638,487, June 23. Class 1.

Servomechanisms, Inc., Westbury, N. Y. Analog computers, accelerometers, and highly calibrated potentiometers. Serial No. 640,013, June 23. Class 26.

Sharp & Dohme Incorporated, Philadelphia, Pa. Preparation useful in the treatment of conditions of the vascular system. Serial No. 638,739, June 23. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa. Preparation for use as a dietary adjunct. Serial No. 639,195, June 23. Class 18.

Sherman, Robert M., New York, N. Y. Medical preparation. Serial No. 618,073, June 23. Class 18.

Silf Co. Limited, The, London, England. Medicated preparation. Serial No. 625,301, June 23. Class 18.

Sinclair Coal Company, Kansas City, Mo. Coal. Serial No. 638,217, June 23. Class 1.

Singer Manufacturing Company, The, Elizabeth, N. J. Locks and keys. Serial No. 628,582, June 23. Class 25.

Singer Manufacturing Company, The, Elizabeth, N. J. Family and commercial sewing machines, darning, embroidery, article fastening, etc. machines, etc. Serial No. 629,260, June 23. Class 23.

Singer Manufacturing Company, The, Elizabeth, N. J. Thermoelectric testing devices and measuring devices. Serial No. 630,160, June 23. Class 26.

Singer Manufacturing Company, The, Elizabeth, N. J. Thermoplastic material. Serial No. 640,015, June 23. Class 1.

Smith, Chester W., doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Cleaning solution. Serial No. 633,085, June 23. Class 52.

Smith, D. A., & Co., New York, N. Y. Hand woven woolen tweed piece goods. Serial No. 639,083, June 23. Class 42.

Smith-Dorsey: *See*—
Wander Company, The.

Smith, Kline & French Laboratories, Philadelphia, Pa. Sympatholytic and adrenolytic agent and as an agent affecting the central nervous system. Serial No. 639,292, June 23. Class 18.

Snyder Mfg. Co., Philadelphia, Pa. Television antenna. Serial No. 630,099, June 23. Class 21.

Societa in Accomandita Semplice Franco Cella & C., Milan, Italy. Dentifrices, solid and liquid brilliantine, toilet powders, etc. Serial No. 599,538, June 23. Class 51.

South Pacific Canning Company, Long Beach, Calif. Canned fish. Serial No. 626,909, June 23. Class 46.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. Serial No. 616,980, June 23. Class 2.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. Serial No. 616,987, June 23. Class 2.

Southwestern Portland Cement Company, Los Angeles, Calif. Cements. Serial No. 634,611, June 23. Class 12.

Spencer Chemical Company, Kansas City, Mo. Weed killer. Serial No. 638,218, June 23. Class 6.

Spiegel, Inc., Chicago, Ill. Electric clothes dryers, gas clothes dryers, and electric ironers. Serial No. 643,563, June 23. Class 24.

Spring Packing Corporation, Chicago, Ill. Waterproofing and insulating bituminous composition. Serial No. 625,494, June 23. Class 12.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for treatment of and prophylaxis against infections. Serial No. 613,146, June 23. Class 18.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Antibacterial preparation. Serial No. 633,592, June 23. Class 18.

Stackpole, Milton E., doing business as Gift Horse Creations, San Mateo, Calif. Ceramic tableware. Serial No. 629,631, June 23. Class 30.

Stern Brothers, New York, N. Y. Travel clocks. Serial No. 639,514, June 23. Class 27.

Stevens, J. P., & Co. Inc., New York, N. Y. Fabrics. Serial No. 641,099, June 23. Class 42.

Stout, Charles B., doing business under the trade name of Dixie-Portland Flour Mills, Memphis, Tenn. Wheat flour. Serial No. 586,608, June 23. Class 46.

Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation. Serial No. 635,068, June 23. Class 18.

Strohmeyer & Arpe Company, New York, N. Y. Synthetic waxes and substitute waxes. Serial No. 635,200, June 23. Class 6.

Stuart Laboratories, Inc., Hempstead, N. Y. Powders in capsule form. Serial No. 633,050, June 23. Class 18.

Superior Pharmacal Co., The, Dayton, Ohio. Hypnotic tablet. Serial No. 640,590, June 23. Class 18.

Swan-Finch Oil Corporation, New York, N. Y. Rust preventives and textile processing oils. Serial No. 639,460, June 23. Class 6.

Swan-Finch Oil Corporation, New York, N. Y. Anti-freeze compounds. Serial No. 639,462, June 23. Class 6.

Swift & Company, Chicago, Ill. Wool oil. Serial No. 636,865, June 23. Class 6.

Telex, Inc., St. Paul, Minn. Headset consisting of earphones used in connection with radio, or other sound reproducing apparatus. Serial No. 621,922, June 23. Class 21.

Tennessee Products & Chemical Corporation, Nashville, Tenn. Acetic acid, benzoic acid, hydrochloric acid, etc. Serial No. 632,456, June 23. Class 6.

Terrell, St. John, doing business under the name and style of Music Circus, Lambertville, N. J., Miami, Fla., and Hyannis, Cape Cod, Mass. Producing and directing musical and dramatic presentations. Serial No. 605,500, June 23. Class 107.

Tested Papers of America, Inc., Chicago, Ill. Facial tissue type paper napkins. Serial No. 639,965, June 23. Class 37.

Thomas, Susan, New York, N. Y. Ladies' and misses' blouses, dresses, skirts, etc. Serial No. 636,260, June 23. Class 39.

Thymoborine Laboratory, Milwaukee, Wis. Antiseptic solution. Serial No. 637,215, June 23. Class 18.

LIST OF TRADE-MARK APPLICANTS

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. Serial No. 633,013, June 23. Class 15.

Tierra Royal Potteries, Inc., Kansas City, Mo. Glazed pottery planters and vases. Serial No. 633,595, June 23. Class 30.

Toni Company, The: *See*—
Gillette Company, The.

Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Wool braided rugs. Serial No. 641,101, June 23. Class 42.

Trenton Corporation, The, Ann Arbor, Mich. Flexible protective covering for pipes, etc. Serial No. 608,182, June 23. Class 12.

Tru-Aid Products Co.: *See*—
Tru-Aid Products Company.

Tru-Aid Products Company, also known as Tru-Aid Products Co., Philadelphia, Pa. Denture cushions. Serial No. 641,103, June 23. Class 44.

Tru-Fyre Laboratories, Los Angeles, Calif. Fired on ceramic color glaze, underglaze, overglaze, etc. Serial No. 598,513, June 23. Class 12.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United Wallpaper, Inc., Chicago, Ill. Color pigments for use in the manufacture of paints and inks. Serial No. 632,639, June 23. Class 6.

Universal Refining Products Co., Inc., New York, N. Y. Chemical compound for removing soot. Serial No. 617,684, June 23. Class 52.

Van Doorne's Aanhangwagenfabriek N. V., Eindhoven, Netherlands. Automotive vehicles. Serial No. 630,360, June 23. Class 19.

Vaudable, Louis, Paris, France. Catering services. Serial No. 626,767, June 23. Class 100.

Vega Baking Company Incorporated, Norwood, Mass. Breads, rolls, pastries, etc. Serial No. 604,939, June 23. Class 46.

Vega Baking Company Incorporated, Norwood, Mass. Bread, cookies, pastries, etc. Serial No. 604,940, June 23. Class 46.

Veldent Company, The: *See*—
Bartells, Raymond O.

Victor Drug Company, Chicago, Ill. Medicinal ointment. Serial No. 635,206, June 23. Class 18.

Victoria Distributors: *See*—
Brunner, Oscar A.

Vinyl Plastics, Inc., Sheboygan, Wis. Plastic floor tile. Serial No. 640,984, June 23. Class 12.

Vlogen (Australasia) Proprietary Limited, Melbourne, Victoria, Australia. Toothpaste. Serial No. 600,869, June 23. Class 51.

Vunck, George W., doing business as O. B. Vunck & Son, Voorheesville, N. Y. Chicken and live stock feeds. Serial No. 626,431, June 23. Class 46.

Vunck, O. B. & Son: *See*—
Vunck, George W.

Walker, Charles, & Co., Limited, Swinegate, Leeds, England. Belting and strap leather. Serial Nos. 640,136–8, June 23. Class 35.

Wander Company, The, doing business under the name Smith-Dorsey, Chicago, Ill. Antibiotic preparation. Serial No. 628,591, June 23. Class 18.

Wander Company, The, Chicago, Ill. Antacid, sedative, and anti-spasmodic preparation. Serial No. 630,741, June 23. Class 18.

Wappler, Inc., New York, N. Y. Apparatus to be used as a complete unit in surgery. Serial No. 610,397, June 23. Class 44.

Watkins, J. R., Company, The, Winona, Minn. Polish. Serial No. 628,314, June 23. Class 4.

Weather Products Corporation, Providence and Warwick, R. I. Storm window and screen combinations. Serial No. 639,298, June 23. Class 12.

Webb, Thomas J., Company, Chicago, Ill. Coffee and tea. Serial No. 582,808, June 23. Class 46.

Webster Manufacturing Co.: *See*—
Webster, Marvin.

Webster, Marvin, doing business as a sole proprietorship known as Webster Manufacturing Co., San Francisco, Calif. Radio antennas. Serial No. 621,739, June 23. Class 21.

Wella Corporation, The, New York, N. Y. Cuticle nippers; manicure nipper shears, manicure scissors, etc. Serial No. 640,025, June 23. Class 44.

West Disinfecting Company, Long Island City, N. Y. Liquid cleanser, deodorant, and disinfectant. Serial No. 623,161, June 23. Class 52.

West, H. C., & Sons, Bird's Nest, Va. General fresh farm produce. Serial No. 622,135, June 23. Class 46.

Wetherill, Ira, doing business as The Rolophene Co., Independence, Mo. Medicine for use as an anti-spasmodic. Serial No. 628,662, June 23. Class 18.

Weyerhaeuser Timber Company, Tacoma, Wash. Chemically impregnated whole wood fiber. Serial No. 625,176, June 23. Class 1.

Wheel Goods Corporation, Minneapolis, Minn. Bicycles. Serial Nos. 643,576–7, June 23. Class 19.

Whitfield Chemical Company: *See*—
Smith, Chester W.

Wier, Lela S., doing business as Wonda Products Co., Jackson, Miss. Laxative powder and preparations for the treatment of simple neuralgia, etc. Serial No. 633,025, June 23. Class 18.

Wolfenden, J. W., Corporation, Attleboro, Mass. Sterling silver flatware and hollow ware. Serial No. 636,908, June 23. Class 28.

Wolfenden, J. W., Corporation, Attleboro, Mass. Sterling silver flatware and hollow ware. Serial No. 637,160, June 23. Class 28.

Wonda Products Co.: *See*—
Wier, Lela S.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Bowl cleaner and drain opener. Serial No. 604,461, June 23. Class 52.

Zip Products Co.: *See*—
Miller, Lee C., Sr.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Insoluble penicillin and heparin salts. 576,466, June 23; Serial No. 636,328, published Mar. 10, 1953. Class 18.

Acme Backing Corporation, Brooklyn, N. Y. Processed fabric, backing material. 302,838, renewed May 2, 1953. O. G. June 23. Class 42.

Acme Steel Company, Chicago, Ill. Metal strap fastening seals, corrugated wood fasteners, joint fasteners, etc. 576,250. June 23; Serial No. 618,222, published Oct. 7, 1952. Class 13.

Adirondack Construction Corporation, Glens Falls, N. Y. General construction, maintenance, and repair of private homes, apartment buildings, etc. 576,355, June 23; Serial No. 606,250. Class 103.

Airline Foods Corporation: *See*—
Root, A. I., Company, The.

Aktiebolaget Gense, Eskilstuna, Sweden. Articles of stainless steel—namely, coffee services, tea services, etc. 576,177, June 23; Serial No. 564,708, published Mar. 31, 1953. Class 13.

Aldens, Inc., Chicago, Ill. Children's or sidewalk bicycles, and children's scooters, sleds, and wagons. 576,491, June 23; Serial No. 564,422. Class 22.

Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Sheet and strip material formed from a special alloy steel. 576,277, June 23; Serial No. 623,790, published Mar. 17, 1953. Class 14.

Allied Chemical & Dye Corporation, New York, N. Y. Composition shingles. 576,257, June 23; Serial No. 619,558, published Mar. 24, 1953. Class 12.

Alpha Corporation, The, Greenwich, Conn. Lubricants. 576,377, June 23; Serial No. 633,292, published Mar. 24, 1953. Class 15.

Altman, B., & Co., New York, N. Y. Traveling bags, handbags, and shoulder strap bags. 576,406–7, June 23; Serial Nos. 634,828–9, published Mar. 31, 1953. Class 3.

Alumitile, Inc., assignee: *See*—
Druckenbrod, Marvin F.

American Manufacturing Concern, Falconer, N. Y. Bedroom furniture. 576,506, June 23; Serial No. 613,796. Class 32.

American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Urinals. 576,420, June 23; Serial No. 635,167, published Mar. 31, 1953. Class 13.

American Scientific Laboratories, Inc., Madison, Wis. Product used as an antiseptic. 576,380, June 23; Serial No. 633,702, published Mar. 3, 1953. Class 18.

American Thread Company, The, New York, N. Y. Thread. 576,470, June 23; Serial No. 636,456, published Apr. 7, 1953. Class 43.

American Viscose Corporation, Philadelphia, Pa. Fabrics. 576,188, June 23; Serial No. 584,567, published Dec. 4, 1951. Class 42.

Ames, Butler, Lowell, Mass. Gloves. 576,301, June 23; Serial No. 625,708, published Mar. 31, 1953. Class 39.

Ames Company, Inc., Elkhart, Ind. Tablets for analgesic and antipyretic purposes. 576,355, June 23; Serial No. 631,515, published Mar. 31, 1953. Class 18.

Amity Leather Products Co., West Bend, Wis. Combined billfold and coin purse. 576,271, June 23; Serial No. 622,974, published Mar. 31, 1953. Class 3.

Anchor Chemical Corporation, Hollywood, Calif. Upholstery and rug cleaners. 576,509, June 23; Serial No. 616,936. Class 52.

Andes Copper Mining Company, New York, N. Y. Blister copper. 576,458, June 23; Serial No. 635,047, published Mar. 24, 1953. Class 14.

Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad, British West Indies, by Port of Spain, Trinidad. Tonic bitters. 90,152, Feb. 11, 1913. Republished June 23. Class 18.

Arkwright, Incorporated, New York, N. Y. Cosmetics. 576,192, June 23; Serial No. 590,792, published Oct. 17, 1950. Class 51.

Armour and Company, Chicago, Ill. Glue and an adhesive agent. 576,231, June 23; Serial No. 614,123, published Mar. 31, 1953. Class 5.

Art Mode Hosiery: *See*—
Katz, Martin.

Artistic Landscape Service: *See*—
De Arruda, Jesse.

Aseptic-Thermo Indicator Co., Los Angeles, Calif. Indicators which are adapted to change color when subjected to a predetermined time-temperature exposure. 438,373–4, Apr. 20, 1948. Republished June 23. Class 28.

Atalanta Trading Corp., New York, N. Y. Frozen seafood products. 576,320, June 23; Serial No. 627,665, published Mar. 31, 1953. Class 46.

Austin, Nichols & Co. Incorporated: *See*—
Heidsieck, Charles Reims Société à Responsabilité Limitée.

Bacorn Company, The, Elmira, N. Y. Remedy for colds, catarrh, tonsilitis, etc. 92,779, re-renewed July 29, 1953. O. G. June 23. Class 18.

Barbasol Company, The, Indianapolis, Ind. Shaving lotion. 576,208, June 23; Serial No. 606,199, published July 31, 1951. Class 51.

Bauer's: *See*—
House of Bauer, The.

Beau Brummell Ties, Inc., Cincinnati, Ohio. Neckties, necktie and handkerchief combination sets, and handkerchiefs. 576,375, June 23; Serial No. 633,141, published Mar. 24, 1953. Class 39.

Beaunit Mills, Inc., New York, N. Y. Fabrics. 576,449, June 23; Serial No. 635,738, published Apr. 7, 1953. Class 42.

Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, and garter belts. 576,397, June 23; Serial No. 634,443, published Mar. 31, 1953. Class 39.

Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. 576,394, June 23; Serial No. 634,396, published Apr. 7, 1953. Class 4.

Bernfeld, Jules E., trading as Jules, Alexandria and Arlington, Va. Permanent wave solution. 576,297, June 23; Serial No. 625,091, published Mar. 3, 1953. Class 51.

Bever Corporation, Miami Beach, Fla., now by change of name Key Corporation—Ethical Pharmaceuticals. Antihistamine. 576,415, June 23; Serial No. 635,118, published Mar. 10, 1953. Class 18.

Bird & Son, Inc., East Walpole, Mass. Insulating siding. 576,421, June 23; Serial No. 635,169, published Mar. 3, 1953. Class 12.

Black and Decker Manufacturing Company, The, Towson, Md. Abrasive oil stones or hones. 576,221, June 23; Serial No. 610,506, published Aug. 19, 1952. Class 4.

Bloch Bros., to Bloch Bros. (Distillers) Limited, Glasgow, Scotland. Whiskey. 299,580, renewed Dec. 13, 1953. O. G. June 23. Class 49.

Bloch Bros. (Distillers) Limited: *See*—
Bloch Bros.

Blue Anchor Beverage Company: *See*—
Friedrich, John.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 302,324, renewed Apr. 11, 1953. O. G. June 23. Class 42.

Boggs Manufacturing Corporation, Atlanta, N. Y. Potato graders, potato seed treating machines, bin loaders, etc. 294,646, June 7, 1932. Republished June 23. Class 23.

Bonat, S., & Bro., Inc., Paterson, N. J. Chemical preparation to be added to permanent waving solution. 576,540, June 23; Serial No. 633,751. Class 51.

Bonforte Construction Company: *See*—
Bonforte, John.

Bonforte, John, doing business as Bonforte Construction Company, Colorado Springs, Colo. Ventilated roof ridge roll. 576,521, June 23; Serial No. 624,925. Class 12.

Booth, George G., doing business as Booth Welding Shop, Berwick, Pa. Television towers and accessories. 576,522, June 23; Serial No. 625,329. Class 12.

Booth Welding Shop: *See*—
Booth, George G.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves. 576,398, June 23; Serial No. 634,449, published Apr. 7, 1953. Class 39.

Brabender Corporation, Rochelle Park, N. J. Machines which test and record upon charts texture of bread dough. 576,249, June 23; Serial No. 618,147, published Feb. 24, 1953. Class 26.

Bregman, Jack, Los Angeles, Calif. Games and toys. 576,209, June 23; Serial No. 606,694, published Apr. 7, 1953. Class 22.

Bridgeport Brass Company, Bridgeport, Conn. Underarm deodorant. 576,253, June 23; Serial No. 619,008, published Feb. 24, 1953. Class 51.

Bristol-Myers Company, New York, N. Y. Face cream. 576,225, June 23; Serial No. 611,636, published Feb. 24, 1953. Class 51.

Brizel Leather Corporation, New York, N. Y. Leather bands for caps and hats. 576,446, June 23; Serial No. 635,683, published Mar. 31, 1953. Class 39.

Broderick & Bascom Rope Company, St. Louis, Mo. Wire rope. 576,187, June 23; Serial No. 584,315, published Mar. 31, 1953. Class 7.

Broemmel Pharmaceuticals, San Francisco, Calif. Antihistamine preparation. 576,202, June 23; Serial No. 605,716, published Mar. 3, 1953. Class 18.

Brooks, Joseph D., doing business as Seven-Up Bottling Company, Marysville, Calif. Maltless soft drinks and carbonated waters. 576,504, June 23; Serial No. 611,637. Class 45.

Brown, Andrew, Company, to Andrew Brown Company, Los Angeles, Calif. Paint enamels, varnishes, lacquers. 305,087, renewed Aug. 1, 1953. O. G. June 23. Class 16.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigars, cigarettes, smoking tobacco, etc. 302,022, renewed Mar. 21, 1953. O. G. June 23. Class 17.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes, smoking tobacco, chewing tobacco, etc. 305,267, renewed Aug. 8, 1953. O. G. June 23. Class 17.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Smoking and chewing tobacco. 305,268–9, renewed Aug. 8, 1953. O. G. June 23. Class 17.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes, smoking tobacco, chewing tobacco, etc. 305,270, renewed Aug. 8, 1953. O. G. June 23. Class 17.

Burroughs Wellcome & Co. (U. S. A.) Inc.: *See*—
Wellcome, Henry S.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. 576,384, June 23; Serial No. 634,029, published Mar. 3, 1953. Class 18.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. 576,399, June 23; Serial No. 634,450, published Mar. 17, 1953. Class 18.

Buxton, Incorporated, Springfield, Mass. Pass cases and billfolds combined with pass cases. 576,417, June 23; Serial No. 634,934, published Mar. 31, 1953. Class 3.

Calcium Carbonate Company, Chicago, Ill. Calcium carbonate (ground limestone). 576,408, June 23; Serial No. 634,836, published Mar. 31, 1953. Class 6.

Candy Crafters, Inc., Lanedowne, Pa. Candy and chewing gum. 576,255, June 23; Serial No. 619,292, published Sept. 23, 1952. Class 46.

Carew Manufacturing Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Bond paper. 232,101, Aug. 30, 1927. Republished June 23. Class 37.

Caron Corporation, New York, N. Y. Perfume. 576,550–1, June 23; Serial Nos. 639,016–17. Class 51.

Carrier Corporation, Syracuse, N. Y. Fluid compressors. 576,314, June 23; Serial No. 626,853, published Mar. 24, 1953. Class 23.

Casimir Funk Laboratories, Inc., New York, N. Y. Pharmaceutical compound. 576,412, June 23; Serial No. 634,887, published Mar. 24, 1953. Class 18.

Celanese Corporation of America, New York, N. Y. Yarns. 576,434, June 23; Serial No. 635,464, published Apr. 7, 1953. Class 43.

Cello-Masters, Incorporated, New York, N. Y. Cellophane and cellulose acetate bags. 439,420, June 22, 1948. Republished June 23. Class 2.

Cello-Masters, Incorporated, New York, N. Y. Cellophane and cellulose acetate wrapping and packaging materials. 441,125, Oct. 19, 1948. Republished June 23. Class 37.

Celotex Corporation, The, Chicago, Ill. Acoustical tile suspension system. 576,211, June 23; Serial No. 607,618, published Mar. 10, 1953. Class 12.

Cemline Corporation, Cheswick, Pa. Hot water tanks and range boilers. 355,124, Mar. 8, 1938. Republished June 23. Class 34.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Ladies' hosiery. 576,413, June 23; Serial No. 634,889, published Mar. 31, 1953. Class 39.

Chapman Chemical Company, Memphis, Tenn. Wood preservatives, wood treating chemicals, insecticides, etc. 576,471, June 23; Serial No. 636,512, published Apr. 7, 1953. Class 6.

Chapman's, Mrs., Home Foods: *See*—
Morse, S. B.

Chelsea Process, Inc., New York, N. Y. Cleaning furs. 576,557, June 23; Serial No. 634,162. Class 103.

Chemagro Corporation, New York, N. Y. Insecticides. 576,456, June 23; Serial No. 635,902, published Mar. 31, 1953. Class 6.

Chicago Curled Hair Company, by General Felt Products Co., Chicago, Ill. Carpet pads and carpet lining. 304,480, July 11, 1933. Republished June 23. Class 50.

Chicago Duplicator Co.: *See*—
Davidson Manufacturing Corporation.

Chicago Metal Hose Corporation, Maywood, Ill., now by change of name Flexonics Corporation. Metal hose, flexible metal tubing, and metal reinforced hose. 576,200, June 23; Serial No. 603,570, published May 29, 1951. Class 35.

China Doll Company: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.

Church Grape Juice Company, Kennewick, Wash. Grape juice. 576,547, June 23; Serial No. 638,694. Class 45.

Clag Aktiengesellschaft, Schaffhausen, Switzerland. Chemotherapeutic for tubercular diseases. 576,425, June 23; Serial No. 635,217, published Mar. 10, 1953. Class 18.

Circofire Spark Plug Company, Hamtramck, Mich. Spark plugs. 576,282, June 23; Serial No. 623,949, published Mar. 31, 1953. Class 21.

Cisco, Inc., New York, N. Y. Men's and boys' outer shirts, robes, swim shorts, etc. 576,349, June 23; Serial No. 631,146, published Mar. 24, 1953. Class 39.

Coca-Cola Bottling Co. of Worcester, Worcester, Mass. Maltless soft drinks and carbonated waters. 576,536, June 23; Serial No. 629,933. Class 45.

Cohen, Jack: *See*—
Townsend, E. M., & Co.

Collins Company, The, Collinsville, Conn. Axes, hatchets, adzes, etc. 145,062, July 26, 1921. Republished June 23. Class 23.

Collins Company, The, Collinsville, Conn. Pickaxes, crowbars, wrenches, etc. 170,241, July 10, 1923. Republished June 23. Class 23.

Columbian Rope Company, Auburn, N. Y. Rope and twine. 576,316, June 23; Serial No. 627,175, published Mar. 31, 1953. Class 7.

Columbian Rope Company, Auburn, N. Y. Twine. 576,317, June 23; Serial No. 627,176, published Mar. 31, 1953. Class 7.

Columbian Steel Tank Company, Kansas City, Mo. Sheet metal concrete forms; steel stairways; steel towers, etc. 576,184, June 23; Serial No. 578,371, published Mar. 17, 1953. Class 12.

Columbus Limited, Wembley, Middlesex, England. Electrically operated machine. 576,322, June 23; Serial No. 627,810, published Mar. 31, 1953. Class 21.

Commerce Drug Co., Brooklyn, N. Y. Chemical compound for relieving the pain of teething babies. 576,476, June 23; Serial No. 637,243, published Mar. 10, 1953. Class 18.

Coon, W. B., Company, Rochester, N. Y. Women's leather shoes. 294,622, June 7, 1932. Republished June 23. Class 39.

Cooper Alloy Foundry Co., The, Hillside, N. J. Cast pipe fittings. 576,332, June 23; Serial No. 631,471, published Mar. 10, 1953. Class 13.

Copco Steel & Engineering Company, Detroit, Mich., and Newark, N. J. Residential, industrial and architectural steel windows. 576,214, June 23; Serial No. 607,983, published Mar. 24, 1953. Class 12.

Cory Casual Sportswear Corp., New York, N. Y. Certain garments for men, women, and children—namely, sport shirts, polo shirts, etc. 576,538, June 23; Serial No. 632,922. Class 39.

Cramer Chemical Co., Gardner, Kans. Dextrose tablets containing vitamin B_1. 576,532, June 23; Serial No. 628,612. Class 18.

Creamery Package Mfg. Company, The, Chicago, Ill. Electronically operated liquid level controls. 576,170, June 23; Serial No. 528,263, published Feb. 10, 1953. Class 26.

Cromwell Paper Company, The, Chicago, Ill. Laminated papers. 576,515, June 23; Serial No. 621,868. Class 37.

Cross, Mark, Company, New York, N. Y. Travelling bags. 576,414, June 23; Serial No. 634,906, published Mar. 31, 1953. Class 3.

Crown Overall Mfg. Co., The, Cincinnati, Ohio. Men's coats, vest coats, sleeveless vest coats, etc. 301,347, renewed Feb. 28, 1953. O. G. June 23. Class 39.

Cutter Laboratories, Berkeley, Calif. Medical preparation. 576,436–7, June 23; Serial No. 635,523–4, published Mar. 10, 1953. Class 18.

d-Con Company, Inc., Chicago, Ill. Rodenticides. 576,267, June 23; Serial No. 621,818, published Apr. 7, 1953. Class 6.

d-Con Company, Inc., The, Chicago, Ill. Rodenticide. 576,305, June 23; Serial No. 625,891, published Mar. 31, 1953. Class 6.

D. S. D. Manufacturing Company, The, Hamden, Conn. Gaskets or seals of metal tubing. 576,401, June 23; Serial No. 634,323, published Apr. 7, 1953. Class 35.

Dade Reagents, Inc., Miami, Fla. Enteral tube feeding solution. 576,359, June 23; Serial No. 632,019, published Mar. 10, 1953. Class 18.

Dalton Foundries, Inc., The, Warsaw, Ind. Special analysis, especially processed malleable iron castings. 305,959, renewed Aug. 29, 1953. O. G. June 23. Class 14.

Dalton Foundries, Inc., The, Warsaw, Ind. Special analysis, especially processed grey iron castings. 305,979, renewed Aug. 29, 1953. O. G. June 23. Class 14.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 576,388, June 23; Serial No. 634,302, published Jan. 13, 1953. Class 42.

Daniels, Veronica T., Minneapolis, Minn. Infant sleepers. 576,381, June 23; Serial No. 633,716, published Mar. 24, 1953. Class 39.

Darmela Medicine Company: *See*—
Miller, J. H.

Davidson Corporation, assignee: *See*—
Davidson Manufacturing Corporation.

Davidson Manufacturing Corporation, Chicago, Ill., now by change of name Chicago Duplicator Co., assignor to Davidson Corporation. Duplicating machines. 576,171, June 23; Serial No. 532,918, published Mar. 17, 1953. Class 23.

Davis, B. F., Garment Co., Inc., New Orleans, La. Pants, shirts and duugarees. 576,334, June 23; Serial No. 628,999, published Mar. 24, 1953. Class 39.

Davis, Henry R., Jr., Contoocook, N. H. Cardboard box-making machines and parts thereof. 576,336, June 23; Serial No. 629,091, published Mar. 24, 1953. Class 23.

De Arruda, Jesse, doing business as Artistic Landscape Service, Chicago, Ill. Landscape and garden maintenance. 576,556, June 23; Serial No. 619,607. Class 103.

Demco, Inc., Denver, Colo. Antiphlogistic dressing. 576,464, June 23; Serial No. 636,209, published Mar. 24, 1953. Class 18.

Dentists' Supply Company of New York, The, assignee: *See*—
Dentronics, Inc.

Dentronics, Inc., Seattle, Wash., assignor to The Dentists' Supply Company of New York, York, Pa. Saliva ejector, anti-splash dental guard, electric dental hand pieces, etc. 576,206, June 23; Serial No. 605,978, published Dec. 25, 1951. Class 44.

Diamond Alkali Company, Cleveland, Ohio. Laundry sour. 576,212, June 23; Serial No. 607,740, published Apr. 7, 1953. Class 6.

Dictaphone Corporation, Bridgeport, Conn. Electrically-operated sound recording and reproducing machines. 576,403, June 23; Serial No. 634,634, published Mar. 24, 1953. Class 21.

Dietzgen, Eugene, Co., Chicago, Ill. Draftsmen's articles. 576,302, June 23; Serial No. 625,720, published Feb. 3, 1953. Class 26.

Dixie-Portland Flour Co., Memphis, Tenn., doing business as Plant Flour Mills, Arkansas City, Kans. Wheat flour. 576,179, June 23; Serial No. 571,694, published Feb. 24, 1953. Class 46.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 576,488, June 23; Serial No. 631,958, published Mar. 17, 1953. Class 12.

Dow Corning Corporation, Midland, Mich. Organosiloxy compositions. 576,193, June 23; Serial No. 595,949, published Mar. 31, 1953. Class 6.

Druckenbrod, Marvin F., assignor to Alumitile, Inc., Atlanta, Ga. Tile. 576,174, June 23; Serial No. 558,800, published July 3, 1951. Class 12.

Drug Products Co., Inc., The, East Orange N. J. Biliary stimulant. 576,279, June 23; Serial No. 623,826, published Mar. 24, 1953. Class 18.

Drug Products Co., Inc., The, East Orange, N. J. Liquid preparation indicated in the treatment of acne in all its forms, etc. 576,280, June 23; Serial No. 623,828, published Mar. 24, 1953. Class 18.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 576,365, June 23; Serial No. 632,511, published Mar. 24, 1953. Class 18.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 576,366–7, June 23; Serial Nos. 632,512–13, published Mar. 3, 1953. Class 18.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 576,368, June 23; Serial No. 632,516, published Mar. 10, 1953. Class 18.

Dubuque, William D., trading and doing business as Lebanon Chemical Company, Lebanon, N. H. Liquid solvent used in fuel oil treatment. 576,539, June 23; Serial No. 633,042. Class 15.

Durand & Huguenin A. G., Basel, Switzerland. Chromedyestuffs. 576,331, June 23; Serial No. 628,618, published Apr. 7, 1953. Class 6.

Durand & Huguenin A. G., Basel, Switzerland. Dyestuffs. 576,332, June 23; Serial No. 628,619, published Mar. 31, 1953. Class 6.

Eastern Chemical Corporation, Reading, Pa. Cleaner for mechanical dishwashing. 576,181, June 23; Serial No. 573,535, published Oct. 30, 1951. Class 52.

Eastman Kodak Company: *See*—
Tennessee Eastman Corporation.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic chemicals. 576,483, June 23; Serial No. 639,813, published Apr. 7, 1953. Class 6.

Eaton Chemical and Dyestuff Company, Detroit, Mich. Laundry bleach. 576,265, June 23; Serial No. 621,550, published Apr. 7, 1953. Class 6.

Edgewater Paper Co., Menasha, Wis. Papers for use as moisture barriers in building construction. 576,428, June 23; Serial No. 635,293, published Mar. 10, 1953. Class 12.

Edison, Thomas A., Incorporated, West Orange, N. J. Apparatus for remote control dictation systems. 576,246, June 23; Serial No. 617,282, published Mar. 24, 1953. Class 21.

Edmont Manufacturing Company, Coshocton, Ohio. Gloves. 576,183, June 23; Serial No. 575,261, published Mar. 31, 1953. Class 39.

Elsman, Ewen and Rose, Inc., New York, N. Y. Automobile seat covers. 576,500, June 23; Serial No. 597,673. Class 19.

Elara Products, Inc., Richmond, Va. Liquid preparation for treatment of and relief from fungous infections of the skin. 576,243, June 23; Serial No. 617,020, published Mar. 3, 1953. Class 18.

Endura Manufacturing Corporation, Philadelphia, to Endura Manufacturing Co., Quakertown, Pa. Packing. 92,881, re-renewed Aug. 5, 1953. O. G. June 23. Class 35.

Endura Manufacturing Corporation: *See*—
Endura Manufacturing Co.

Enrich, Henry A., & Co., Inc., New York, N. Y. Chemical preparation. 576,295, June 23; Serial No. 625,005, published Mar. 17, 1953. Class 6.

Erwin Pharmacals, Inc., Chicago, Ill. Nose drops. 576,378, June 23; Serial No. 633,353, published Feb. 24, 1953. Class 18.

Eskimo Pie Corporation, doing business as New York Eskimo Pie Corporation, New York and Brooklyn, N. Y., to Mutual Trading Corporation, Bloomfield, N. J. Frozen confections. 302,649, renewed Apr. 25, 1953. O. G. June 23. Class 46.

Etablissements Vitoux, Troyes (Aube), France. Stockings, hosiery. 576,223, June 23; Serial No. 610,938, published Mar. 31, 1953. Class 39.

Etrofile & Tool Manufacturing Corp., Brooklyn, N. Y. Files. 576,288, June 23; Serial No. 624,480, published Mar. 24, 1953. Class 23.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Chemical preparation. 576,430, June 23; Serial No. 635,355, published Mar. 31, 1953. Class 6.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Synthetic resin base bonding agents. 576,431, June 23; Serial No. 635,357, published Apr. 7, 1953. Class 5.

Faber-Castell, A. W., Pencil Co., Inc., Newark, N. J. Rules, calculating rules, triangles and T-squares. 576,308, June 23; Serial No. 626,158, published Feb. 3, 1953. Class 26.

Fabri-Valve Co. of America, Portland, Oreg. Gate valves. 576,389, June 23; Serial No. 634,320, published Mar. 24, 1953. Class 13.

Falls Yarn Mills, Woonsocket, R. I. Yarns. 419,182, Feb. 5, 1946. Republished June 23. Class 43.

Fame Canning Company: *See*—
Stokely Brothers & Company.

Farbenfabriken Bayer, Krefeld-Uerdingen, Germany. Perfume ingredients. 576,260, June 23; Serial No. 619,862, published Mar. 17, 1953. Class 51.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyes and dyestuffs. 576,327, June 23; Serial No. 628,266, published Apr. 7, 1953. Class 6.

Fashion Crest Hosiery Co.: *See*—
Kros, Frank J.

Federal Manufacturing & Engineering Corp., Brooklyn, N. Y. Electronic equipment—namely, electronic heterodyne frequency meters. 576,256, June 23; Serial No. 619,295, published Feb. 24, 1953. Class 26.

Federated Department Stores, Inc., New York, N. Y. Women's hosiery. 576,535, June 23; Serial No. 629,481. Class 39.

Fein, Henry C.: *See*—
Kopa Brothers, Inc.

Fellows Medical Manufacturing Company, Inc., New York, N. Y. Chloral hydrate plus natural belladonna alkaloids. 576,479, June 23; Serial No. 638,137, published Mar. 17, 1953. Class 18.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Appetite satient compositions. 576,266, June 23; Serial No. 621,666, published Mar. 3, 1953. Class 18.

Ferri, Sam, Yakima, Wash. Accordions. 576,313, June 23; Serial No. 620,788, published Apr. 7, 1953. Class 36.

Flat Metal Manufacturing Company, Franklin Park, Ill. Shower cabinets. 576,450–2, June 23; Serial No. 635,755–7, published Mar. 31, 1953. Class 13.

Firks, Albert A., Los Angeles, Calif. Obesity tablets. 435,553, Dec. 30, 1947. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Preparation for the treatment of all types of chronic bronchitis, phthisis, and a gastrointestinal antiseptic. 174,045, Oct. 2, 1923. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Powder dispensed in capsules, tablets, or as a powder for the treatment of rheumatism. 185,719, June 24, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Anti-phlogistic paste. 185,720, June 24, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Stimulant and diuretic for the treatment of kidney and bladder disorders. 185,721, June 24, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Preparation for the treatment of rheumatic and kindred diseases. 185,722, June 24, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Preparation for the treatment of acute and chronic malaria. 185,723, June 24, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Preparation for the treatment of infant bowel disorders. 185,989, July 1, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Internal medicine for the treatment of amenorrhea, dysmenorrhea, etc. 187,990, Aug. 12, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Internal medicine for digestive and stomach troubles. 187,991, Aug. 12, 1924. Republished June 23. Class 18.

First Texas Chemical Manufacturing Company, Dallas, Tex. Vitamin preparation. 409,093, Sept. 12, 1944. Republished June 23. Class 18.

Fishing Gazette Publishing Corp., New York, N. Y. Magazine. 576,493, June 23; Serial No. 568,603. Class 38.

Flak & Mason, Inc., South Pasadena, Calif. Shakes, wooden shingles and prefabricated wood shingle units. 576,512, June 23; Serial No. 620,309. Class 12.

Flexonics Corporation: *See*—
Chicago Metal Hose Corporation.

Flintkote Company, The, New York, N. Y. Roofing shingles. 576,524, June 23; Serial No. 626,666. Class 12.

Flintkote Company, The, New York, N. Y. Quick-setting cementitious material. 576,534, June 23; Serial No. 629,007. Class 12.

Florin, Philip, Inc., New York, N. Y. Wallets, billfolds, and removable pass cases. 576,224, June 23; Serial No. 611,128, published Mar. 31, 1953. Class 3.

Flour Mills of America, Inc.: *See*—
Valier & Spies Milling Co.

Folger, J. A., & Co., Kansas City, Mo. Coffee. 576,489, June 23; Serial No. 511,604. Class 46.

Foord, William M., Litchfield, Conn. Insect repellent. 576,278, June 23; Serial No. 623,798, published Apr. 7, 1953. Class 6.

For-Dom Inc., New York, N. Y. Automotive publications. 576,527, June 23; Serial No. 627,570. Class 38.

Franchet Metal Craft, Inc. Jamaica, N. Y. Metal ribbed cross-bridging for floor joists. 576,248, June 23; Serial No. 618,032, published Mar. 24, 1953. Class 13.

Friedrich, John, to Blue Anchor Beverage Company, Philadelphia, Pa. Ginger ale, sarsaparilla, and root beer. 179,115, Feb. 5, 1924. New certificate. O. G. June 23. Class 45.

Friendly Frost Sales Corp., Ozone Park, N. Y. Storm windows. 576,525, June 23; Serial No. 626,871. Class 12.

Fruit Products Corporation, New York, N. Y. Frozen confections. 576,289, June 23; Serial No. 624,535, published Dec. 23, 1952. Class 46.

Fujii Junichi Shoten, Limited, Honolulu, Territory of Hawaii. Milk candy. 576,480, June 23; Serial No. 638,529, published Mar. 31, 1953. Class 46.

Gagan Brothers, Inc., Everett, Mass. Chemical preparations. 576,268, June 23; Serial No. 622,210, published Mar. 31, 1953. Class 6.

Garcia, Chas., & Co., Inc., New York, N. Y. Fishing lines. 576,516, June 23; Serial No. 622,433. Class 22.

Gardiner Manufacturing Company, Inc., Buffalo, N. Y. Aqueous solution of sodium hypochlorite. 576,269, June 23; Serial No. 622,534, published Mar. 17, 1953. Class 18.

Geigy Company, Inc., New York, N. Y. Enteric coated tablet. 576,215, June 23; Serial No. 608,108, published Mar. 24, 1953. Class 18.

General Dyestuff Corporation, New York, N. Y. Metallizable direct dyestuff, metallizing assistants for use in dyeing textile materials, etc. 576,459, June 23; Serial No. 636,074, published Apr. 7, 1953. Class 6.

General Felt Products Co.: *See*—
Chicago Curled Hair Company.

General Foods Corporation; *See*—
Whitman Grocery Company.

General Metal Products Corp., Lakewood, N. J. Toy coin registering banks. 576,469, June 23; Serial No. 636,416, published Apr. 7, 1953. Class 22.

General Mills, Inc., Minneapolis, Minn. Stock food. 302,765, Apr. 25, 1933. Republished June 23. Class 46.

General Products Corporation, Los Angeles, Calif. Dietary supplement. 576,435, June 23; Serial No. 635,471, published Mar. 3, 1953. Class 18.

General Scientific Equipment Company: *See*—
Kline, Maurice.

Gibson, Guy T., Inc., to Parfums Ciro, Inc., New York, N. Y. Perfumes and sachets. 301,790, renewed Mar. 14, 1953. O. G. June 23. Class 51.

Giovinazzi, Mary P., New York, N. Y. Lingerie. 576,219, June 23; Serial No. 610,211, published Mar. 31, 1953. Class 39.

Givaudan-Delawanna, Inc., New York, N. Y. Liquid odoriferous material suitable for use in perfumes and cosmetics. 576,186, June 23; Serial No. 581,417, published Mar. 3, 1953. Class 51.

Gladding, McBean & Co., Los Angeles, Calif. Fire brick, refractory brick, tile, and molded bodies. 576,379, June 23; Serial No. 633,418, published Mar. 31, 1953. Class 12.

Glaser, Harry, Inc., New York, N. Y. Children's blouses. 576,302, June 23; Serial No. 632,206, published Mar. 31, 1953. Class 39.

Glenader Textile Corp., New York, N. Y. Ladies' and girls' head coverings. 576,390, June 23; Serial No. 634,326, published Mar. 24, 1953. Class 39.

Gliddon, Homer W., Sierra Madre, Calif. Release retainers for the latches of swinging doors. 576,258, June 23; Serial No. 619,571, published Mar. 24, 1953. Class 25.

Globe Knitting Works, Grand Rapids, Mich. Women's and children's knit underwear. 576,438, June 23; Serial No. 635,530, published Mar. 31, 1953. Class 39.

Gold Leaf Pharmacal Company, Inc., New Rochelle, N. Y. Sodium gentisate. 576,239, June 23; Serial No. 616,314, published July 15, 1952. Class 18.

Gotham Hosiery Company, Inc., New York, N. Y. Ladies' underwear and fabric gloves. 576,238, June 23; Serial No. 616,170, published Mar. 31, 1953. Class 39.

Goubaud of Paris, Inc., New York, N. Y. Face cream and face lotion. 576,422, June 23; Serial No. 635,180, published Mar. 10, 1953. Class 51.

Goubaud of Paris, Inc., New York, N. Y. Perfume, toilet water, face lotion and cream. 576,423, June 23; Serial No. 635,181, published Mar. 10, 1953. Class 51.

Grace-Lee Products Inc., Minneapolis, Minn. Synthetic powdered soap. 576,197, June 23; Serial No. 601,497, published Mar. 31, 1953. Class 52.

Graflex, Inc., Rochester, N. Y. Photographic equipment, and/or photographic accessories, etc. 576,210, June 23; Serial No. 607,286, published Feb. 17, 1953. Class 26.

Gretsch, Fred., Manufacturing Company, The, Brooklyn, N. Y. Harmonicas. 576,326, June 23; Serial No. 628,202 published Apr. 7, 1953. Class 36.

Grove Laboratories, Inc., The, St. Louis, Mo. Healing and antiseptic oil. 568,616, Dec. 30, 1952. Amended. O. G. June 23. Class 18.

Groves Thread Company, Inc., Gastonia, N. C. Thread. 576,330, June 23; Serial No. 628,335, published Mar. 31, 1953. Class 43.

Gsell, R., & Co., Inc., New York, N. Y. Watches and clocks. 576,548, June 23; Serial No. 638,765. Class 27

Guarantee Exterminating Company: *See*—
Guaranteed Sanitation, Inc.

Guaranteed Sanitation, Inc., doing business as Guarantee Exterminating Company, New York, N. Y. Insecticides. 576,226, June 23; Serial No. 613,068, published Dec. 2, 1952. Class 6.

Gütermann & Co., K. G., Zurich and Glarus, Switzerland. Sewing thread. 576,364, June 23; Serial No. 632,475, published Mar. 31, 1953. Class 43.

Gutstein-Tuck, Inc., Boston, Mass. Men's trousers. 576,387, June 23; Serial No. 634,254, published Mar. 24, 1953. Class 39.

Haig & Haig Limited, Markinch, Scotland. Whisky. 576,542, June 23; Serial No. 634,255. Class 49.

Hair-Rite Chemical Co.: *See*—
Smithline, Herman.

Hamilton, Van A., Palestine, Tex. Building materials. 576,276, June 23; Serial No. 623,598, published Mar. 24, 1953. Class 12.

Hamoton Mills, Inc., Easthampton, Mass. Textile fabrics. 576,537, June 23; Serial No. 631,801. Class 42.

Hanlite Company, Denver, Colo. High pressure gas valves. 576,463, June 23; Serial No. 636,172, published Apr. 7, 1953. Class 13.

Harris, Mecbell F., doing business as P. M. Pharmaceutical Company, Kansas City, Mo. Antiseptic eye wash and antiseptic eye drops. 576,198, June 23; Serial No. 602,695, published Mar. 10, 1953. Class 18.

Harris, Robert, New York, N. Y. Hair bleach preparation. 576,232, June 23; Serial No. 614,145, published Mar. 10, 1953. Class 51.

Harrower Laboratory, Inc., The, Jersey City, N. J. Compound of certain estrogenic substances. 379,445, June 9, 1940. Republished June 23. Class 18.

Harshaw Chemical Company, The, Cleveland, Ohio. Opaquing agents. 576,409, June 23; Serial No. 634,847, published Apr. 7, 1953. Class 6.

Haverfield Company, The, Columbus, Ohio. Hats. 576,383, June 23; Serial No. 633,769, published Mar. 24, 1953. Class 39.

Hawkridge Brothers Company, Boston, Mass. Tool steel and steel bars, rods, and sheets. 576,345–6, June 23; Serial Nos. 630,779–80, published Mar. 31, 1953. Class 14.

Heidsieck, Charles, Reims Société à Responsabilité Limitée, Reims, France, to Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Champagne wine. 302,737, renewed Apr. 25, 1953. O. G. June 23. Class 47.

Heli-Coil Corporation, Danbury, Conn. Quick release fasteners and clips, and quick release pins. 576,341, June 23; Serial No. 629,797, published Mar. 24, 1953. Class 13.

Heller, B., & Company, Chicago, Ill. Insecticides and preparations for the extermination of vermin. 300,128, renewed Jan. 3, 1953. O. G. June 23. Class 6.

Hemingway & Bartlett Mfg. Co., The, Watertown, Conn. Nylon quilting thread. 576,453, June 23; Serial No. 635,833, published Mar. 31, 1953. Class 43.

Herman Chemical Co.: *See*—
Smithline, Herman.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes, money chests, and vaults. 576,285, June 23; Serial No. 624,270, published Mar. 24, 1953. Class 25.

Heyden Chemical Corporation, New York, N. Y. Various mixtures and combinations of antibiotics. 576,457, June 23; Serial No. 635,917, published Mar. 17, 1953. Class 18.

Higbie Manufacturing Company, Rochester and Brooson, Mich. Fishing reels. 576,460, June 23; Serial No. 636,078, published Apr. 7, 1953. Class 22.

Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Ind. Fabric covered folding door. 576,270, June 23; Serial No. 622,827, published Mar. 17, 1953. Class 12.

Homestead Valve Manufacturing Company, Coraopolis, Pa. Detergent and soap compound. 576,205, June 23; Serial No. 605,902, published Mar. 24, 1953. Class 52.

Hooper, Wm. E., & Sons Co., Baltimore, Md. Textile fabrics. 306,063, renewed Sept. 5, 1953. O. G. June 23. Class 42.

Horlicks Limited, Slough, England. Antacid tablets. 576,360, June 23; Serial No. 632,085, published Mar. 24, 1953. Class 18.

Horn Surgical Company, Philadelphia, Pa. Seamless elastic arch grippers, elastic hip reducers, shoulder braces, etc. 306,051, renewed Sept. 5, 1953. O. G. June 23. Class 44.

Horton Manufacturing Company, The, Bristol, to Union Hardware Company, Torrington, Conn. Fishing lines, steel shafts for golf clubs, fishing reels, etc. 303,259, renewed May 16, 1953. O. G. June 23. Class 22.

Houghton, E. F., & Co., Philadelphia, Pa. Turbine lubricants. 576,499, June 23; Serial No. 594,323. Class 15.

House of Bauer, The, doing business as Bauer's, Lincoln, Nebr. Candy. 576,213, June 23; Serial No. 607,922, published Sept. 23, 1952. Class 46.

House of Worsted-Tex, Inc., Philadelphia, Pa. Men's topcoats, overcoats, and tuxedo suits. 576,447, June 23; Serial No. 635,097, published Mar. 31, 1953. Class 39.

Hudnut, Richard, New York, N. Y. Toilet water. 90,641, re-renewed Mar. 11, 1953. O. G. June 23. Class 51.

Hudnut, Richard, New York, N. Y. Shaving cream, after-shaving lotion, deodorant cream, etc. 576,252, June 23; Serial No. 618,906, published Mar. 17, 1953. Class 51

Hudnut, Richard, New York, N. Y. Creme rinse. 576,391, June 23; Serial No. 634,328, published Feb. 24, 1953. Class 51.

Hudson Pulp and Paper Corporation, New York, N. Y. Paper napkins, paper towels, and facial tissues. 576,490, June 23; Serial No. 581,593. Class 37.

Huff, Floyd A., doing business as Huffson Cosmetic Company, Mansfield, Ohio. Hair dressings. 576,189, June 23; Serial No. 587,680, published Feb. 24, 1953. Class 51.

Huffson Cosmetic Company: *See*—
Huff, Floyd A.

Huisking, Chas. L., & Co., Inc., New York, to Chas. L. Huisking & Co., Inc., Brooklyn, N. Y. Milk sugar U. S. P., lanoline anhydrous U. S. P., coal tar disinfectant, etc. 301,660, renewed Mar. 7, 1953. O. G. June 23. Class 18.

Hutchings, Norman Webb, Jr.: *See*—
Hutchings, Norman Webb, Sr., and Norman Webb Hutchings, Jr.

Hutchings, Norman Webb, Sr., and Norman Webb Hutchings, Jr., doing business under the name China Doll Company, Mobile, Ala. Rice. 576,199, June 23; Serial No. 603,147, published Feb. 24, 1953. Class 46.

International Minerals & Chemical Corporation, Chicago, Ill. Plastic (polystyrene chemical composition). 576,485, June 23; Serial No. 640,159, published Mar. 31, 1953. Class 6.

Ireland, Elston L., Portland, Greg. Pie baking machines and turn spits employing infra-red rays. 576,529, June 23; Serial No. 628,108. Class 21.

Jackson Box Company, The, Cincinnati, Ohio. Cartons, shipping boxes, and corrugated containers. 200,269, June 30, 1925. Republished June 23. Class 2.

Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. 576,552, June 23; Serial No. 639,042. Class 28.

Jacoby, Meyer, Corporation, New York, N. Y. Dolls' wigs. 576,465, June 23; Serial No. 636,242, published Apr. 7, 1953. Class 22.

Johns-Manville Corporation, New York, N. Y. Braided strip packing. 576,484, June 23; Serial No. 640,123, published Mar. 31, 1953. Class 35.

Johnson, S. C., & Son, Inc., Racine, Wis. Wax. 305,536, renewed Aug. 22, 1953. O. G. June 23. Class 4.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 576,240, June 23; Serial No. 616,500, published Dec. 25, 1951. Class 42.

Jules: *See*—
Bernfeld, Jules E.

Juniper, A. T., Limited, Liverpool, England. Lubricating oil and lubricating greases. 576,337, June 23; Serial No. 629,573, published Mar. 24, 1953. Class 15.

Karmelkorn Corporation, Chicago, Ill. Machines for popping and treating popcorn. 303,463, May 23, 1933. Republished June 23. Class 23.

Katz, Martin, doing business as Art Mode Hosiery, St. Louis, Mo.. Hosiery. 576,284, June 23; Serial No. 624,138, published Mar. 31, 1953. Class 39.

Keller, Roy M., Sedalia, Mo. Electro-therapeutic shoes. 576,528, June 23; Serial No. 627,952. Class 44.

Kelly, Arthur W., New York, N. Y. Ladies', men's, boys' and girls' clothing. 576,328, June 23; Serial No. 628,280, published Mar. 31, 1953. Class 39.

Key Corporation—Ethical Pharmaceuticals: *See*—
Bever Corporation.

Keystone Chemical Company, Inc., by Charles Schrank, doing business as Shralyte Company, Cleveland, Ohio. Insecticide moth spray. 387,079, Apr. 29, 1941. Republished June 23. Class 6.

Kilitian Manufacturing Company, The, Akron, Ohio. Prophylactic rubber articles. 304,213, renewed June 27, 1953. O. G. June 23. Class 44.

Kimberly-Clark Corporation, Neenah, Wis. Book paper. 304,183, renewed June 27, 1953. O. G. June 23. Class 37.

Kingkold Asphaltic Products: *See*—
King's, Phil, Enterprises.

King's, Phil, Enterprises, also doing business as Kingkold Asphaltic Products, Tucson, Ariz. Aphaltic coatings. 576,335, June 23; Serial No. 629,028, published Mar. 10, 1953. Class 12.

Kline, Maurice, doing business as General Scientific Equipment Company, Philadelphia, Pa. Instruments for magnetically removing metal particles and loops for wiping foreign objects from the eye. 576,492, June 23; Serial No. 566,619. Class 44.

Kolb Refractories Company, Philadelphia, Pa. Fire cement, and high-temperature cement. 576,241, June 23; Serial No. 616,672, published Mar. 3, 1953. Class 12.

Kon-Tur Products, Chicago, Ill. Dietary supplement. 576,385, June 23; Serial No. 634,145, published Mar. 17, 1953. Class 18.

Kops Brothers, Inc., to Henry C. Fein, New York, N. Y. Bust confining garments. 305,694, renewed Aug. 22, 1953. O. G. June 23. Class 39.

Kroger Co., The, Cincinnati, Ohio. Bread, butter, and fresh milk. 434,669, Dec. 2, 1947. Republished June 23. Class 46.

Kroger Co., The, Cincinnati, Ohio. Canned fruits and vegetables. 437,648, Mar. 30, 1948. Republished June 23. Class 46.

Kromex Corporation, Cleveland, Ohio. Set of colorized tumblers of aluminum, a set of aluminum tumblers, and a beverage set. 576,439, June 23; Serial No. 635,539, published Mar. 31, 1953. Class 13.

Kros, Frank J., trading under the name Fashion Crest Hosiery Co., Hatfield, Pa. Women's hosiery. 576,369, June 23; Serial No. 632,676, published Mar. 31, 1953. Class 39.

Lancaster Shoe Company, Elizabethtown, Pa. Woman's and children's shoes. 576,517, June 23; Serial No. 622,943. Class 39.

Lapres, Theo. J., Inc., Atlantic City, N. J. Salt-water taffy. 266,394, Jan. 14, 1930. Republished June 23. Class 46.

Lass O'Scotland, Ltd., New York, N. Y. Women's and girls' knitted skirts, suits, dresses, etc. 576,395, June 23; Serial No. 634,414, published Apr. 7, 1953. Class 39.

Lass O'Scotland, Ltd., New York, N. Y. Women's and girls' knitted skirts, suits, dresses, etc. 576,400, June 23; Serial No. 634,473, published Apr. 7, 1953. Class 39.

Lebanon Chemical Company: *See*—
Dubuque, William D.

Leichter, Emil, New York, N. Y. Watches. 576,494–5, June 23; Serial Nos. 570,857–8. Class 27.

Lelong, Lucien, Inc., Chicago, Ill. Skin lotion. 576,342, June 23; Serial No. 630,010, published 17, 1953. Class 51.

Lerner Blouse Co., Philadelphia, Pa. Ladies' blouses, shirt waists, and waists. 576,333, June 23; Serial No. 628,097, published Mar. 31, 1953. Class 39.

Levy, Jerome, doing business as New Economic Library, New York, N. Y. Monthly newsletter. 576,546, June 23; Serial No. 637,484. Class 38.

Live Stock Remedy Company, St. Louis, Mo. Remedy for the expurgation of worms from hogs, sheep, horses, etc. 92,807, re-renewed July 29, 1953. O. G. June 23. Class 18.

Lockwedge International Incorporated: *See*—
Perth Shoe Company Limited.

Long, Dr. Geo. S., Corporation, Pineville, La. Vitamin tonic. 576,242, June 23; Serial No. 616,720, published Mar. 10, 1953. Class 18.

Luse, Oscar P., Los Angeles, by Luseaux Laboratories, Inc., Gardenia, Calif. Medicine for poultry. 240,923, Apr. 10, 1928. Republished June 23. Class 18.

Luseaux Laboratories, Inc.: *See*—
Luse, Oscar P.

Lyon Van & Storage Co., Los Angeles, Calif. Transporting by truck household goods and general commodities, etc. 576,534, June 23; Serial No. 535,248. Class 105.

Magnaflow Pump Corp., New York, N. Y. Circulating pumps. 576,461, June 23; Serial No. 636,134, published Mar. 24, 1953. Class 23.

Manchester Knitted Fashions, Inc., Manchester, N. H. Men's T-shirts. 576,392, June 23; Serial No. 634,377, published Mar. 24, 1953. Class 39.

Mangelsdorf, Ed. F., & Bro., Inc., St. Louis, Mo. Field seeds and grain seeds. 576,191, June 23; Serial No. 590,512, published Mar. 31, 1953. Class 1.

Manhattan Shirt Company, The, New York, N. Y. Knit underwear and cut and sewn underwear, etc. 305,043, renewed Aug. 22, 1953. O. G. June 23. Class 39.

Manhattan Shirt Company, The, New York, N. Y. Men's sport shirts. 576,418, June 23; Serial No. 635,140, published Mar. 31, 1953. Class 39.

Markwell Manufacturing Co., Inc., New York, N. Y. Crayons. 576,519, June 23; Serial No. 623,802. Class 37.

Marroquin, Carlos C., doing business under the name of Nova Laboratories, San Antonio, Tex. Face lotion. 576,312, June 23; Serial No. 626,681, published Mar. 17, 1953. Class 51.

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Martax Rotonical Corporation, Chicago, Ill. Preparation for the treatment of rheumatism and arthritis. 576,195, June 23; Serial No. 598,803, published Mar. 17, 1953. Class 18.

Martin, John A., doing business as Peerless Products Company, by Peerless Products Company, Jersey City, N. J. Cold cream and hairdressing pomade. 212,672, May 11, 1920. Republished June 23. Class 51.

Martin & Schwartz, Inc., Salisbury, Md., assignor to The Wayne Pump Company. Internal combustion engine fuel and lubricant dispensing pumps. 576,259, June 23; Serial No. 619,639, published Feb. 24, 1953. Class 26.

Martini & Rossi Corporation, New York, N. Y. Medicinal bitters. 576,290, June 23; Serial No. 624,552, published Mar. 3, 1953. Class 18.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

McFaull, Dolores, New York, N. Y. Ornamental lace head covering. 576,234, June 23; Serial No. 614,706, published Mar. 31, 1953. Class 39.

Meadows, Virgil E., Bronxville, N. Y. Vitamin A capsules and fortified liver compound. 576,281, June 23; Serial No. 623,897, published Mar. 3, 1953. Class 18.

Meeker, Max G., doing business as Meeker's Auto Supply Co., Casey, Ill. Paints. 576,523, June 23; Serial No. 626,583. Class 16.

Meeker's Auto Supply Co.: *See*—
Meeker, Max G.

Mellowes Company, The, Milwaukee, Wis. Washers and more specifically lock washers. 576,462, June 23; Serial No. 636,138, published Apr. 7, 1953. Class 13.

Mel-Ton Bags, Inc., New York, N. Y. Handbags. 576,424, June 23; Serial No. 635,189, published Mar. 31, 1953. Class 3.

Memphis Press-Scimitar Company, to Memphis Publishing Company, Memphis, Tenn. Section or column appearing in a newspaper or periodical. 301,803, renewed Mar. 14, 1953. O. G. June 23. Class 38.

Memphis Publishing Company: *See*—
Memphis Press-Scimitar Company.

Mercantile Stores Company, Inc., Wilmington, Del. Women's hats. 576,382, June 23; Serial No. 633,730, published Mar. 24, 1953. Class 39.

Mercury Record Corporation, Chicago, Ill. Grooved phonograph records. 576,356, June 23; Serial No. 631,674, published Apr. 7, 1953. Class 36.

Merit Clothing Company, Mayfield, Ky. Men's suits. 576,443, June 23; Serial No. 635,606, published Mar. 31, 1953. Class 39.

Merlite Industries, Inc., New York, N. Y. Portable fire extinguishers. 576,454, June 23; Serial No. 635,840, published Mar. 24, 1953. Class 23.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Antituberculay comprising isonicotinic acid hydrazide. 576,358, June 23; Serial No. 631,938, published Mar. 10, 1953. Class 18.

Metals & Controls Corporation, Attleboro, Mass. Laminated metals. 576,440, June 23; Serial No. 635,541, published Mar. 24, 1953. Class 14.

Metals & Controls Corporation, Attleboro, Mass. Laminated metals. 576,441, June 23; Serial No. 635,543, published Mar. 24, 1953. Class 14.

Meyer Chemical Company, Detroit, Mich. Capsules. 576,173, June 23; Serial No. 557,071, published Mar. 3, 1953. Class 18.

Miller, J. H., doing business under the name and style of Darmela Medicine Company, Chicago, Ill. Liquid for external use. 576,404, June 23; Serial No. 634,698, published Mar. 3, 1953. Class 18.

Miller and Rhoads, Incorporated, Richmond, Va. Miscellaneous electrical housewares appliances. 576,272, June 23; Serial No. 623,104, published Mar. 17, 1953. Class 21.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Protective adhesive tape. 576,405, June 23; Serial No. 634,699, published Apr. 7, 1953. Class 5.

Miracle Adhesives Corporation, New York, N. Y. Ceramic tile cement and wallboard cement. 576,309, June 23; Serial No. 626,213, published Apr. 7, 1953. Class 5.

Mixing Equipment Co., Inc., Rochester, N. Y. Electrically-operated mixing equipment. 227,991, May 17, 1927. Republished June 23. Class 21.

Moench, R. G., & Co., Inc., New York, N. Y. Ice milk base. 576,530, June 23; Serial No. 628,220. Class 46.

Mo och Domsjö Aktiebolag, Harnosand, Sweden. Wall paper paste. 576,218, June 23; Serial No. 609,940, published July 8, 1952. Class 5.

Morgan's Enoch, Sons Company, to Sapollo Products, Inc., New York, N. Y. Cleansing, scouring, and polishing compound. 303,172, renewed May 16, 1953. O. G. June 23. Class 4.

Morse, S. H., doing business as Mrs. Chapman's Home Foods, Los Angeles, Calif. Flavoring and condiment sauces. 576,501, June 23; Serial No. 603,806. Class 48.

Morton Salt Company: *See*—
Worcester Salt Co.

Mountain Folks Remedy Company, Forsyth, Mo. Medical preparation for the relief of chest colds, etc. 576,444, June 23; Serial No. 635,607, published Mar. 10, 1953. Class 18.

Multi-Clean Products, Incorporated, St. Paul, Minn. Electric floor polishing machines. 576,545, June 23; Serial No. 637,417. Class 21.

Mutual Trading Corporation: *See*—
Eskimo Pie Corporation.

N. V. Servo-Balans, The Hague, Netherlands. Scales and automatic weighing, totalizing and recording machines and their parts. 576,254, June 23; Serial No. 619,165, published Feb. 24, 1953. Class 26.

National Advertising Company, Springfield, Mass. Savings stamp. 576,549, June 23; Serial No. 638,912. Class 38.

National Enameling & Stamping Company, Milwaukee, Wis. Metal cooking hollowware, etc. 413,231, Apr. 17, 1945. Amended. O. G. June 23. Class 13.

National Lead Company, Sayreville, N. J., and New York, N. Y. Chemical composition. 576,261, June 23; Serial No. 620,356, published Mar. 31, 1953. Class 6.

National Lead Company, Sayreville, N. J., and New York, N. Y. Chemical composition. 576,264, June 23; Serial No. 621,281, published Apr. 7, 1953. Class 6.

Neely Drug Company, Inc., York, S. C. Antacid-alkalizer. 576,371, June 23; Serial No. 632,951, published Mar. 24, 1953. Class 18.

Neiman-Marcus Company, Dallas, Tex. Women's fur garments. 576,357, June 23; Serial No. 631,812, published Mar. 31, 1953. Class 39.

Nethercutt, Jack B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Cologne. 576,293, June 23; Serial No. 624,789, published Mar. 17, 1953. Class 51.

Nethercutt, Jack B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Cosmetics. 576,294, June 23; Serial No. 624,792, published Mar. 17, 1953. Class 51.

Nethercutt Laboratories: *See*—
Nethercutt, Jack B.

Neumann, Morton G., doing business as Valmor Products Co., to Valmor Products Co., Chicago, Ill. Incense. 304,224, renewed June 27, 1953. O. G. June 23. Class 6.

Nevel Company, The: *See*—
Nevel, Jack M.

Nevel, Jack M., doing business as The Nevel Company, Detroit, Mich. Polishing wheel abrasive cement. 576,543, June 23; Serial No. 634,855. Class 5.

New Economic Library: *See*—
Levy, Jerome.

New York Eskimo Pie Corporation: *See*—
Eskimo Pie Corporation.

Nolde & Horst Company, The, Reading, Pa., and New York, N. Y. Nylon hosiery. 576,376, June 23; Serial No. 633,269, published Mar. 24, 1953. Class 39.

Nopco Chemical Company, Harrison, N. J. Sulfonated tallow products. 576,318, June 23; Serial No. 627,273, published Mar. 31, 1953. Class 6.

Nopco Chemical Company, Harrison, N. J. High potency vitamin-containing solids. 576,350–1, June 23; Serial Nos. 631,369–70, published Mar. 17, 1953. Class 18.

Norden Laboratories, Lincoln, Nebr. Veterinary drugs. 576,481, June 23; Serial No. 639,071, published Mar. 3, 1953. Class 18.

North American Lace Co. Inc., Philadelphia, Pa. Lace curtains, lace table cloths, lace bed spreads, and lace piece goods. 576,445, June 23; Serial No. 635,610, published Apr. 7, 1953. Class 42.

Northwestern Expanded Metal Co., to United States Gypsum Company, Chicago, Ill. Expanded-metal lath. 92,256, re-renewed June 24, 1953. O. G. June 23. Class 12.

Northwestern National Bank of Minneapolis, Minneapolis, Minn., trustee of the estate of F. H. Pfunder, deceased. Stomach tablets. 576,386, June 23; Serial No. 634,213, published Mar. 17, 1953. Class 18.

Norton Company, Worcester, Mass. Heat-refractory materials. 576,477, June 23; Serial No. 637,606, published Mar. 24, 1953. Class 12.

Nova Laboratories: *See*—
Marroquin, Carlos C.

O'Connell Brothers, Inc., Overland and St. Louis, Mo. Medicinal preparations or ingredients thereof. 576,227, June 23; Serial No. 613,380, published Dec. 30, 1952. Class 18.

Oil Well Engineering Company, Ltd., The, New York, N. Y., and London and Stockport, England. Well-boring plants. 284,247, June 23, 1931. Republished June 23. Class 23.

Old 97 Manufacturing Co., Tampa, Fla. After-shave lotion, hair tonic, and talc. 576,419, June 23; Serial No. 635,146, published Mar. 3, 1953. Class 51.

P. M. Pharmaceutical Company: *See*—
Harris, Mechell F.

Page Limited, Inc., doing business as Page, Ltd., Miami Beach, Fla. Hair coloring pomade. 576,513, June 23; Serial No. 621,724. Class 51.

Page, Ltd.: *See*—
Page Limited, Inc.

Parfums Ciro, Inc.: *See*—
Gibson, Guy T., Inc.

Parke, Davis & Company, Detroit, Mich. Antianemic preparation. 576,245, June 23; Serial No. 617,208, published Mar. 17, 1953. Class 18.

Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready mixed paints, etc. 299,887, Dec. 27, 1932. Amended. O. G. June 23. Class 16.

Peerless Products Company: *See*—
Martin, John A.

Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Flexible metallic tubing. 576,482, June 23; Serial No. 639,772, published Apr. 7, 1953. Class 35.

Perfect Knit Togs, Inc., New York, N. Y. Infant's creeper. 576,319, June 23; Serial No. 627,275, published Mar. 24, 1953. Class 39.

Perlman, A. M., Inc., New York, N. Y. Piece goods. 576,448, June 23; Serial No. 635,713, published Apr. 7, 1953. Class 42.

Perth Shoe Company Limited, Perth, Ontario, Canada, to Lockwedge International Incorporated, Columbus, Ohio. Boots, shoes, slippers, and sandals. 301,890, renewed Mar. 21, 1953. O. G. June 23. Class 39.

Peterson, Carl G., Co., East Providence, R. I. Roll feeds for power presses and punch presses. 576,176, June 23; Serial No. 562,273, published Aug. 5, 1952. Class 23.

Pfunder, Frederick H.: *See*—
Northwestern National Bank of Minneapolis.

Pharma-Craft Corporation, The, New York, N. Y. Personal internal systemic deodorant tablet. 576,220, June 23; Serial No. 610,226, published Mar. 24, 1953. Class 18.

Philadelphia Magnesia Co., Philadelphia, Pa. Citrate of magnesia. 297,832, renewed Oct. 4, 1952. O. G. June 23. Class 18.

Philbrick, George A., Researches Inc., Boston, Mass. Electrical apparatus, component parts thereof, and accessories therefor. 576,372, June 23; Serial No. 632,955, published Mar. 31, 1953. Class 21.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 576,296, June 23; Serial No. 625,029, published Mar. 24, 1953. Class 18.

Piedmont Shirt Company, Greenville, S. C. Men's and boys' shirts, collars and cuffs, underwear, etc. 576,307, June 23; Serial No. 626,113, published Mar. 24, 1953. Class 39.

Plant Flour Mills: *See*—
Dixie-Portland Flour Co.

Plantform Foundations, Inc., New York, N. Y. Ladies', Misses', and juniors' brassières. 576,432, June 23; Serial No. 635,432, published Mar. 31, 1953. Class 39.

Pocock, M. A., Minneapolis, Minn. Flatwork spreading machines. 576,363, June 23; Serial No. 632,385, published Mar. 24, 1953. Class 24.

Poliak Industrial Corp., Stratford, Conn., and New York, N. Y. Hat bodies. 576,442, June 23; Serial No. 635,550, published Mar. 31, 1953. Class 39.

Polychrome Corporation, Yonkers, N. Y. Hand cream. 576,216, June 23; Serial No. 608,123, published Mar. 17, 1953. Class 51.

Polymers, Inc., Middlebury, Vt. Packaged resinous filaments for general use in the industrial arts. 440,358, Aug. 24, 1948. Republished June 23. Class 1.

Popper Morson Company, New York, N. Y., and Jersey City, N. J. Brandy. 576,497, June 23; Serial No. 593,827. Class 49.

Prefinished Wallpanel Council, Cleveland, Ohio. Prefinished wall panels. 576,487, June 23; Serial No. 632,651, published Mar. 24, 1953. Class 12.

Process Chemicals Company, Los Angeles, Calif. Organic compounds. 576,329, June 23; Serial No. 628,295, published Mar. 24, 1953. Class 6.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing soap-like detergent. 576,172, June 23; Serial No. 554,044, published Mar. 31, 1953. Class 52.

Purdue Frederick Company, The, New York, N. Y. Preparation for the relief of asthma. 576,472, June 23; Serial No. 636,605, published Dec. 23, 1952. Class 18.

Pure Oil Company, The, Chicago, Ill. Lubricating oil. 576,453, June 23; Serial No. 635,885, published Mar. 17, 1953. Class 15.

Puschin, Albert J., Centerdale, R. I. Linen towels, linen piece goods, dish towels, etc. 576,510, June 23; Serial No. 618,899. Class 42.

Q/A Company, Inc., Jersey City, N. J. Chlorophyll suppositories. 576,323, June 23; Serial No. 627,834, published Mar. 24, 1953. Class 18.

Rand Pharmaceutical Co., Inc., Albany, N. Y. Pharmaceutical preparation. 576,292, June 23; Serial No. 624,758, published Mar. 17, 1953. Class 18.

Reis, Robert, & Co., New York, N. Y. Men's, women's, and children's underwear, pajamas, sport shirts, etc. 576,298, June 23; Serial No. 625,129, published Mar. 31, 1953. Class 39.

Republic Gear Company, Detroit, Mich. Universal joints. 576,325, June 23; Serial No. 628,427, published Mar. 24, 1953. Class 23.

Revlon Products Corporation, New York, N. Y. Nail enamel and lipstick. 576,344, June 23; Serial No. 630,438, published Mar. 17, 1953. Class 51.

Rex Windows, Incorporated, Columbus, Ohio. Combination storm and screen sash. 576,393, June 23; Serial No. 634,384, published Mar. 3, 1953. Class 12.

Reynold Metals Company, Richmond, Va. Aluminum shingles. 576,353, June 23; Serial No. 631,494, published Mar. 17, 1953. Class 12.

Rhein-Chemie G. m. b. H., Heidelberg, Germany. Drugs and preparations for use against capillary defects, etc. 576,237, June 23; Serial No. 616,128, published Mar. 3, 1953. Class 18.

Rheinische Röhrenwerke Aktiengesellschaft, Mulheim au der Ruhr, Germany. Metal posts and tube joints. 576,429, June 23; Serial No. 635,323, published Mar. 31, 1953. Class 13.

Rhinopto Company, Dallas, Tex. Nose drops and cold capsules. 576,361, June 23; Serial No. 632,133, published Mar. 24, 1953. Class 18.

Richards, Dr., Association, Inc., Norwalk, Conn. Dyspepsia tablets. 576,247, June 23; Serial No. 617,889, published Mar. 3, 1953. Class 18.

Richmond-Chase Company, San Jose, Calif. Canned fruits; and canned vegetables. 134,276, Aug. 24, 1920. Republished June 23. Class 46.

Riegel Paper Corporation, New York, N. Y. Wrapping papers. 304,089, June 20, 1933. Republished June 23. Class 37.

Riegel Textile Corporation, by Riegel Textile Corporation, New York, N. Y. Cotton piece goods and diapers. 304,873, July 18, 1933. Republished June 23. Classes 39 and 42.

Rilling Company, New York, N. Y. Cold wave solutions. 576,178, June 23; Serial No. 570,229, published Nov. 1, 1949. Class 51.

Rolley, Inc., San Francisco, Calif. Perfume and cologne. 576,348, June 23; Serial No. 630,956, published Mar. 17, 1953. Class 51.

Root, A. I., Company, The, Medina, Ohio, to Airline Foods Corporation, Linden, N. J. Honey in the comb, extracted honey, and granulated honey. 93,026, re-renewed Aug. 12, 1953. O. G. June 23. Class 46.

Rosedale Knitting Company, Reading, Pa. Ladies' hosiery. 576,508, June 23; Serial No. 615,083. Class 39.

Roth, Chester H., Co., Inc., New York, N. Y. Men's and women's hosiery. 576,311, June 23; Serial No. 626,344, published Mar. 31, 1953. Class 39.

Rubber and Asbestos Corporation, Bloomfield, N. J. Adhesive cement. 576,339–40, June 23; Serial Nos. 629,751–2, published Apr. 7, 1953. Class 5.

Rubinstein, Helena, Inc., New York, N. Y. Face powder. 576,180, June 23; Serial No. 572,926, published Mar. 31, 1953. Class 51.

Sacks-Barlow Foundries, Inc., Newark, N. J. Heel, toe, and sole plates. 576,410, June 23; Serial No. 634,863, published Mar. 17, 1953. Class 13.

Sage, Peggy: *See*—
Sage, Peggy, Inc.

Sage, Peggy, Inc., doing business under the style of Peggy Sage, Stamford, Conn. Nail polish. 576,274, June 23; Serial No. 623,317, published Mar. 17, 1953. Class 51.

Sagner's, A., Son, Baltimore, Md. Men's suits; coats; slacks; etc. 576,416, June 23; Serial No. 634,922, published Mar. 31, 1953. Class 39.

Sakrete, Inc., St. Bernard, Ohio. Ready mixed concrete. 576,374, June 23; Serial No. 633,123, published Mar. 31, 1953. Class 12.

Saks & Company, New York, N. Y. Men's, women's, girls' and boys' dress and lingerie shirts, pajamas, drawers, etc. 304,947, renewed July 25, 1953. O. G. June 23. Class 39.

Saks & Company, New York, N. Y. Women's and misses' hats, caps, bonnets, etc. 576,291, June 23; Serial No. 624,568, published Mar. 24, 1953. Class 39.

Sapollo Products, Inc.: *See*—
Morgan's, Enoch, Sons Company.

Schenley Laboratories, Inc., New York, N. Y. Penicillin and streptomycin product. 576,207, June 23; Serial No. 606,089, published Mar. 17, 1953. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Aid to hypodermoclysis and local anesthesia. 576,467, June 23; Serial No. 636,386, published Mar. 24, 1953. Class 18.

Schrank, Charles: *See*—
Keystone Chemical Company, Inc.

Schweitzer, Peter J., Inc., New York, N. Y. Cigarette paper booklets. 576,514, June 23; Serial No. 621,789. Class 8.

Schwendermans, to R. K. Trainor, doing business as Schwenderman's Algoma, Wis. Cheese. 299,959, renewed Jan. 3, 1933. O. G. June 23. Class 46.

Scotia Distillers Limited, Glasgow, to Scotia Distillers Limited, Dumbarton, Scotland. Whisky. 304,971, renewed July 25, 1933. O. G. June 23. Class 49.

Sekely Industrial Tool and Mfg., Inc., Salem, Ohio. Grass shears. 576,490, June 23; Serial No. 555,202. Class 23.

Servo Corporation of America, New Hyde Park, N. Y. Frequency stabilizing apparatus, including component parts thereof. 576,236, June 23; Serial No. 615,945, published Mar. 24, 1953. Class 21.

Seven-Up Bottling Company: *See*—
Brooks, Joseph D.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Hormone preparation. 576,203, June 23; Serial No. 605,878, published Mar. 3, 1953. Class 18.

Sheffield Merchandise, Inc., New York, N. Y. Watches. 576,505, June 23; Serial No. 612,514. Class 27.

Shirley Fabrics Corp., New York, N. Y. Textile fabrics. 576,353, June 23; Serial No. 640,649. Class 42.

Shragie, Harry, doing business under the name of Statler Watch Company, New York, N. Y. Watches. 576,544, June 23; Serial No. 635,933. Class 27.

Shralyte Company: *See*—
Keystone Chemical Company, Inc.

Shuford Mills, Inc., Hickory, N. C. Plastic clothes lines. 576,338, June 23; Serial No. 629,587, published Apr. 7, 1953. Class 7.

Siegel, Morris, Wilkes-Barre, Pa. Coffee. 576,175, June 23; Serial No. 560,932, published Mar. 31, 1953. Class 46.

Sierra Gems Incorporated, Sierra Madre, Calif. Gem materials. 576,498, June 23; Serial No. 593,835. Class 28.

Singer Manufacturing Company, The, Elizabeth, N. J. Family and manufacturing sewing-machines, parts thereof, etc. 93,126, re-renewed Aug. 19, 1953. O. G June 23. Class 23.

Sistrunk Cosmetics Dist.: *See*—
Sistrunk, Thomas.

Sistrunk, Thomas, doing business under the style name of Sistrunk Cosmetics Dist., Chicago, Ill. Bath bubbling and perfuming compound, skin lotion, toilet water, etc. 576,283, June 23; Serial No. 623,989, published Mar. 10, 1953. Class 51.

Slater, Rodger & Company, Limited, Glasgow, Scotland. Whisky. 302,284, Apr. 11, 1933. Republished June 23. Class 49.

Sloan Valve Company, Chicago, Ill. Flush valves, water closet combinations, quiet flush equipment, etc. 576,222, June 23; Serial No. 610,589, published Apr. 7, 1953. Class 13.

Smart Set Frocks, New York, N. Y. Ladies' outer wearing apparel. 576,304, June 23; Serial No. 625,827, published Mar. 31, 1953. Class 39.

Smead Manufacturing Company, The, Hastings, Minn. Household records folders, expanding files and pocket wallets. 576,533, June 23; Serial No. 628,965. Class 37.

Smith, Clyde S., Dallas, Tex. Preparation for use as a deodorant and perspiration corrective. 300,535, renewed Jan. 24, 1933. O. G. June 23. Class 51.

Smithline, Herman, doing business under the trade name and style of Herman Chemical Co., New York, N. Y. Nonmedicinal hair and scalp cream, and a preparation for straightening and dressing the hair. 576,228, June 23; Serial No. 613,385, published Mar. 17, 1953. Class 51.

Smithline, Herman, doing business under the trade name and style of Hair-Rite Chemical Co., New York, N. Y. Dressing cream for the hair. 576,229, June 23; Serial No. 613,386, published Mar. 17, 1953. Class 51.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oils. 576,411, June 23; Serial No. 634,868, published Mar. 10, 1953. Class 15.

Sorensen & Company, Inc., Stamford, Conn. Voltage regulators. 576,299, June 23; Serial No. 625,135, published Mar. 31, 1953. Class 21.

Southwestern Portland Cement Company, Los Angeles, Calif. Building cement. 576,402, June 23; Serial No. 634,610, published Mar. 3, 1953. Class 12.

Sperti Faraday Inc., Cincinnati, Ohio., and Adrian, Mich. Electrically operated audible and/or visual signal devices. 576,303, June 23; Serial No. 625,771, published Mar. 31, 1953. Class 21.

Spiegel, Inc., Chicago, Ill. Radio receiving sets, and dry cell batteries, and for television sets. 576,235, June 23; Serial No. 615,380, published Mar. 24, 1953. Class 21.

Spray-Dent Co., Inc., New York, N. Y. Denture adhesive having deodorizing properties. 576,502, June 23; Serial No. 606,814. Class 51.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Lipotropic agent. 576,433, June 23; Serial No. 635,439, published Mar. 3, 1953. Class 18.

Stabler, Robert W., Beverly Hills, Calif. Chocolate and/or lemon or fruit flavored vitamin wafers. 576,507, June 23; Serial No. 614,017. Class 18.

Standard Chemical Works Company, assignee: *See*—
Standard Chemical Works Company, The.

Standard Chemical Works Company, The, assignor to Standard Chemical Works Company, Columbus, Ohio. Acidic laundry compound. 576,196, June 23; Serial No. 600,437, published Mar. 31, 1953. Class 6.

Standard Knitting Mills, Inc., Knoxville, Tenn. Men's, boys' and children's cotton underwear, infants' and children's cotton sleepers, boys' and girls' pajama type cotton sleepers, etc. 576,230, June 23; Serial No. 613,783, published Mar. 31, 1953. Class 39.

Stanogas, Inc., Kokomo, Ind. Liquid petroleum and bottled gas. 576,503, June 23; Serial No. 609,107. Class 6.

Statler Watch Company: *See*—
Shragie, Harry.

Stokely Brothers & Company, doing business as Fame Canning Company, Louisville, Ky., to Stokely-Van Camp, Inc., Indianapolis, Ind. Canned vegetables, tomato puree, sauerkraut, etc. 300,045, renewed Jan. 3, 1933. O. G. June 23. Class 46.

Stokely-Van Camp, Inc.: *See*—
Stokely Brothers & Company.

Sun Chemical Corporation, Long Island City, N. Y. Siliceous material. 576,354, June 23; Serial No. 631,505, published Mar. 31, 1953. Class 6.

Sunderland, Louis, doing business as Louis Sunderland Company, Philadelphia, Pa. Men's overcoats and top coats. 576,286, June 23; Serial No. 624,374, published Mar. 31, 1953. Class 39.
Sunderland, Louis, Company: *See*—
Sunderland, Louis.
Surgical Rubber Co., Norristown, Pa. Flush tank balls. 576,396, June 23; Serial No. 634,422, published Mar. 24, 1953. Class 13.
Swift & Company, Chicago, Ill. Herbicides, insecticides, and fungicides. 576,468, June 23; Serial No. 636,391, published Mar. 31, 1953. Class 6.
Takamine Laboratory, Inc., Clifton, N. J. Enzyme preparation. 576,263, June 23; Serial No. 620,938, published Apr. 7, 1953. Class 6.
Tanatex Corporation, The, New York, N. Y. Textile softeners. 576,194, June 23; Serial No. 598,125, published May 8, 1951. Class 6.
Technicon Cardiograph Corporation, New York, N. Y. Heat and/or pressure sensitive chart paper. 576,185, June 23; Serial No. 580,341, published Feb. 10, 1953. Class 26.
Television Hosiery Corporation, New York, N. Y. Hosiery. 576,310, June 23; Serial No. 626,222, published Mar. 31, 1953. Class 39.
Tennessee Eastman Corporation, Kingsport, Tenn., by Eastman Kodak Company, Rochester, N. Y. Molding composition. 304,385, July 4, 1933. Republished June 23. Class 1.
Tetley, Joseph, & Co., Inc., to Tetley Tea Co., Inc., New York, N. Y. Tea. 303,954, renewed June 13, 1953. O. G. June 23. Class 46.
Tetley Tea Co., Inc.: *See*—
Tetley, Joseph, & Co., Inc.
Texas Housing Company, Dallas, Tex. Prefabricated houses. 576,204, June 23; Serial No. 605,882, published Mar. 3, 1953. Class 12.
Texas Textile Mills, Dallas, Tex. Piece goods. 576,217, June 23; Serial No. 608,521, published Mar. 24, 1953. Class 42.
Thenyihist Co., The, Dallas, Tex. Liquid anti-histaminic preparation. 576,478, June 23; Serial No. 637,023, published Mar. 10, 1953. Class 18.
Thompson, Marvin R., Inc., Stamford, Conn. Vitamin preparation. 576,262, June 23; Serial No. 620,374, published Mar. 17, 1953. Class 18.
Thoroughbred Remedy Corp., Elmont, N. Y. Medicated dressings. 576,251, June 23; Serial No. 618,379, published Mar. 17, 1953. Class 18.
Tobler, Ernst, & Traber, Inc., New York, N. Y. Woven fabrics. 576,201, June 23; Serial No. 605,450, published Apr. 7, 1953. Class 42.
Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Lawn mowers. 576,343, June 23; Serial No. 630,234, published Mar. 24, 1953. Class 23.
Townsend, E. M., & Co., to Jack Cohen, New York, N. Y. Hosiery and knitted underwear. 92,288, re-renewed June 24, 1953. O. G. June 23. Class 39.
Trainor, Rose K.: *See*—
Schwendermans.
Traveleer Trailer Company, Incorporated, Hawthorne, Calif. Automobile camp and house trailers. 576,324, June 23; Serial No. 627,987, published Apr. 7, 1953. Class 19.
Troxler-Lynch Hosiery Company, Springfield, Ill. Ladies' and misses' hosiery. 576,427, June 23; Serial No. 635,280, published Mar. 31, 1953. Class 39.
Tuxan Limited, London, England. Polish and dressing. 576,233, June 23; Serial No. 614,321, published Mar. 31, 1953. Class 4.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
Union Hardward Company: *See*—
Horton Manufacturing Company, The.
United States Gypsum Company: *See*—
Northwestern Expanded Metal Co.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel sheets. 576,321, June 23; Serial No. 627,721, published Mar. 10, 1953. Class 14.
United States Steel Corporation: *See*—
United States Steel Company.
Upjohn Company, The, Kalamazoo, Mich. Preparation for the treatment of hormonal deficiencies. 576,287, June 23; Serial No. 624,434, published Mar. 3, 1953. Class 18.
Valier & Spies Milling Co., St. Louis, to Flour Mills of America, Inc., Kansas City, Mo. Wheat-flour. 90,665, re-renewed Mar. 11, 1953. O. G. June 23. Class 46.
Valmor Products Co.: *See*—
Neumann, Morton G.
Vitalic Battery Company, Inc., Dallas, Tex. Storage batteries. 576,526, June 23; Serial No. 627,478. Class 21.
Vulcan Corporation, Portsmouth, Ohio. Bowling pins. 576,473–4, June 23; Serial Nos. 636,662–3, published Apr. 7, 1953. Class 22.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Formed calcium carbide. 576,541, June 23; Serial No. 633,819. Class 6.
Wadsworth, Donald E., North Miami, Fla. Hose nozzles. 576,373, June 23; Serial No. 632,967, published Mar. 10, 1953. Class 13.
Warner Brothers Company, The, Bridgeport, Conn. Brassières. 303,763, renewed June 6, 1953. O. G. June 23. Class 39.
Warren Southwest, Inc., Los Angeles, Calif. Flexible sheet material composed of asphalt-impregnated fabric. 576,190, June 23; Serial No. 589,486, published Mar. 17, 1953. Class 12.
Washington State Fruit Commission, Yakima, Wash. Deciduous fruits. 576,486, June 23; Serial No. 597,424, published Mar. 31, 1953. Class 46.
Wayne Pump Company, The, assignee: *See*—
Martin & Schwartz, Inc.
Weck: *See*—
Weckesser, Charles L.
Weckesser, Charles L., doing business as Weck, Norwich, N. Y. Mechanical exponent counter for slide rules. 576,273, June 23; Serial No. 623,171, published Feb. 24, 1953. Class 26.
Wellcome, Henry S., London, England, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal substances. 90,861, re-renewed Mar. 25, 1953. O. G. June 23. Class 18.
Wellcome, Henry S., London, England, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Ammonium valerianate, formates compound, glycerophosphates, etc. 91,053, re-renewed Apr. 8, 1953. O. G. June 23. Class 18.
Wellcome, Henry S., London, England, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Malt extract with beef and iron, with cascara segrada, etc. 91,280, re-renewed Apr. 22, 1953. O. G. June 23. Class 18.
Wellcome, Henry S., London, England, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Malt extract. 92,492, re-renewed July 8, 1953. O. G. June 23. Class 48.
Wells Lamont Corporation, Chicago, Ill. Fabric work gloves. 576,315, June 23; Serial No. 627,024, published Mar. 31, 1953. Class 39.
West Disinfecting Company, Long Island City, N. Y. Deodorant preparation for urinals and water closets. 576,300, June 23; Serial No. 625,175, published Apr. 7, 1953. Class 6.
Weston, Byron, Company: *See*—
Carew Manufacturing Company.
White Laboratories, Inc., Kenilworth, N. J. Antibiotic drug. 576,426, June 23; Serial No. 635,243, published Mar. 10, 1953. Class 18.
Whiting-Adams Company, Inc.: *See*—
Whiting, John L., J. J. Adams Company.
Whiting, John L., J. J. Adams Company, by Whiting-Adams Company, Inc., Boston, Mass. Brushes. 160,726, Oct. 24, 1922. Republished June 23. Class 29.
Whiting, John L., J. J. Adams Company, by Whiting-Adams Company, Inc., Boston, Mass. Brushes. 160,735, Oct. 24, 1922. Republished June 23. Class 29.
Whitman Grocery Company, Orange, Mass., to General Foods Corporation, New York, N. Y. Prepared gelatin. 40,345, re-renewed May 12, 1953. O. G. June 23. Class 46.
Wilco Products, Inc., Orange, N. J. Wheel supported sighting and indicating devices for testing wheel alignment. 576,275, June 23; Serial No. 623,526, published Feb. 24, 1953. Class 26.
Wilker Bros. Co., New York, N. Y. Men's and women's pajamas. 576,306, June 23; Serial No. 625,938, published Oct. 21, 1952. Class 39.
Williams, C. D., Co., The: *See*—
Williams, Charles D.
Williams, Charles D., doing business as The C. D. Williams Co., Bakersfield, Calif. Solution for relief of soreness of bruises, etc. 576,475, June 23; Serial No. 636,868, published Mar. 10, 1953. Class 18.
Wine Growers Guild, Lodi, Calif. Wines. 576,518, June 23; Serial No. 623,789. Class 47.
Winter, J. C., & Co., Inc., Red Lion, Pa. Cigars. 576,531, June 23; Serial No. 628,244. Class 17.
Wolf Detroit Envelope Company, The, Detroit, Mich. Correspondence envelopes. 576,511, June 23; Serial No. 619,275. Class 37.
Wollard, Jacques, assignee: *See*—
Younghusband, James L.
Worcester Salt Co., New York, N. Y., to Morton Salt Company, Chicago, Ill. Tooth paste, tooth powder, mouth wash. 304,054, renewed June 20, 1953. O. G. June 23. Class 51.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Liquid absorbent and floor sweeping compound. 576,182, June 23; Serial No. 574,679, published Apr. 7, 1953. Class 52.
Wyner, I. A. & Co., Inc., New York, N. Y. Knitted fabrics. 576,347, June 23; Serial No. 630,914, published Apr. 7, 1953. Class 42.
Younghusband, James L., Chicago, Ill., assignor to Jacques Wollard, New York, N. Y. Hair pre-wave lotion and developer powders. 576,244, June 23; Serial No. 617,101, published Feb. 24, 1953. Class 51.
Zimmerman Scher Inc., New York, N. Y. Women's, misses' and junior misses' fur coats, fur jackets, fur capes. 576,370, June 23; Serial No. 632,911, published Mar. 24, 1953. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Molding composition. Tennessee Eastman Corporation. 304,385, July 4, 1933. Republished June 23.
Resinous filaments for general use in the industrial arts, Packaged. Polymers, Inc. 440,358, Aug. 24, 1948. Republished June 23.
Seeds, Field, and grain seeds. Ed. F. Mangelsdorf & Bro., Inc. 576,191, June 23; Serial No. 590,512, published Mar. 31, 1953.

CLASS 2

Bags, Cellophane and cellulose acetate. Cello-Masters, Incorporated. 439,420, June 22, 1948. Republished June 23.
Cartons, shipping boxes, and corrugated containers. The Jackson Box Company. 200,269, June 30, 1925. Republished June 23.

CLASS 3

Billfold and coin purse, Combined. Amity Leather Products Co. 576,271, June 23; Serial No. 622,974, published Mar. 31, 1953.
Handbags. Mel-Ton Bags, Inc. 576,424, June 23; Serial No. 635,189, published Mar. 31, 1953.
Pass cases and billfolds combined with pass cases. Buxton, Incorporated. 576,417, June 23; Serial No. 634,934, published Mar. 31, 1953.
Traveling bags, handbags, and shoulder strap bags. B. Altman & Co. 576,406–7, June 23; Serial Nos. 634,828–9, published Mar. 31, 1953.
Travelling bags. Mark Cross Company. 576,414, June 23; Serial No. 634,906, published Mar. 31, 1953.
Wallets, billfolds, and removable pass cases. Philip Florin, Inc. 576,224, June 23; Serial No. 611,128, published Mar. 31, 1953.

CLASS 4

Abrasive oil stones or hones. The Black and Decker Manufacturing Company. 576,221, June 23; Serial No. 610,506, published Aug. 19, 1952.
Abrasives, Flexible and inflexible. Behr-Manning Corporation. 576,394, June 23; Serial No. 634,396, published Apr. 7, 1953.
Cleansing, scouring, and polishing compound. Enoch Morgan's Sons Company. 303,172, renewed May 16, 1953. O. G. June 23.
Polish and dressings. Tuxan Limited. 576,233, June 23; Serial No. 614,321, published Mar. 31, 1953.
Wax. S. C. Johnson & Son, Inc. 305,536, renewed Aug. 22, 1953. O. G. June 23.

CLASS 5

Adhesive cement. Rubber and Asbestos Corporation. 576,339–40, June 23; Serial Nos. 629,751–2, published Apr. 7, 1953.
Adhesive tape, Protective. Minnesota Mining and Manufacturing Company. 576,405, June 23; Serial No. 634,699, published Apr. 7, 1953.
Cement, Ceramic tile, and wallboard cement. Miracle Adhesives Corporation. 576,309, June 23; Serial No. 626,213, published Apr. 7, 1953.
Cement, Polishing wheel abrasive. J. M. Nevel. 576,543, June 23; Serial No. 634,855.
Glue and an adhesive agent. Armour and Company. 576,231, June 23; Serial No. 614,123, published Mar. 31, 1953.
Paste, Wall paper. Mo och Domsjö Aktiebolag. 576,218, June 23; Serial No. 609,940, published July 8, 1952.
Synthetic resin base bonding agents. Eutectic Welding Alloys Corporation. 576,431, June 23; Serial No. 635,357, published Apr. 7, 1953.

CLASS 6

Acidic laundry compound. The Standard Chemical Works Company. 576,196, June 23; Serial No. 600,457, published Mar. 31, 1953.
Calcium carbonate (ground limestone). Calcium Carbonate Company. 576,408, June 23; Serial No. 634,836, published Mar. 31, 1953.
Chemical composition. National Lead Company. 576,261, June 23; Serial No. 620,356, published Mar. 31, 1953.
Chemical composition. National Lead Company. 576,264, June 23; Serial No. 621,281, published Apr. 7, 1953.
Chemical preparation. Henry A. Enrich & Co., Inc. 576,295, June 23; Serial No. 625,005, published Mar. 17, 1953.
Chemical preparation. Eutectic Welding Alloys Corporation. 576,430, June 23; Serial No. 635,355, published Mar. 31, 1953.
Chemical preparations. Gagan Brothers, Inc. 576,268, June 23; Serial No. 622,210, published Mar. 31, 1953.
Chemicals, Photographic. Eastman Kodak Company. 576,483, June 23; Serial No. 639,813, published Apr. 7, 1953.
Chrome-dyestuffs. Durand & Huguenin A. G. 576,331, June 23; Serial No. 628,618, published Apr. 7, 1953.
Deodorant preparation for urinals and water closets. West Disinfecting Company. 576,300, June 23; Serial No. 625,175, published Apr. 7, 1953.
Dyes and dyestuffs. Farbenfabriken Bayer. 576,327, June 23; Serial No. 628,266, published Apr. 7, 1953.
Dyestuff, Metallizable direct, metallizing assistants for use in dyeing textile materials, etc. General Dyestuff Corporation. 576,459, June 23; Serial No. 636,074, published Apr. 7, 1953.
Dyestuffs. Durand & Huguenin A. G. 576,332, June 23; Serial No. 628,619, published Mar. 31, 1953.
Enzyme preparation. Takamine Laboratory, Inc. 576,263, June 23; Serial No. 620,938, published Apr. 7, 1953.
Formed calcium carbide. Dr. Alexander Wacker Gesellschaft Für Elektrochemische Industrie, G. m. b. H. 576,541, June 23; Serial No. 633,819.
Herbicides, insecticides, and fungicides. Swift & Company. 576,468, June 23; Serial No. 636,391, published Mar. 31, 1953.
Incense. M. G. Neumann. 304,224, renewed June 27, 1953. O. G. June 23.
Insect repellent. W. M. Foord. 576,278, June 23; Serial No. 623,798, published Apr. 7, 1953.
Insecticide moth spray. Keystone Chemical Company, Inc. 387,079, Apr. 29, 1941. Republished June 23.
Insecticides. Chemagro Corporation. 576,456, June 23; Serial No. 635,902, published Mar. 31, 1953.
Insecticides. Guaranteed Sanitation, Inc. 576,226, June 23; Serial No. 613,068, published Dec. 2, 1952.
Insecticides and preparations for the extermination of vermin. B. Heller & Company. 300,128, renewed Jan. 3, 1953. O. G. June 23.
Laundry bleach. Eaton Chemical and Dyestuff Company. 576,265, June 23; Serial No. 621,550, published Apr. 7, 1953.
Laundry sour. Diamond Alkali Company. 576,212, June 23; Serial No. 607,740, published Apr. 7, 1953.
Liquid petroleum and bottled gas. Stanogas, Inc. 576,503, June 23; Serial No. 609,107.
Opaquing agents. The Harshaw Chemical Company. 576,409, June 23; Serial No. 634,847, published Apr. 7, 1953.
Organic compounds. Process Chemicals Company. 576,329, June 23; Serial No. 628,295, published Mar. 24, 1953.
Organosiloxy compositions. Dow Corning Corporation. 576,193, June 23; Serial No. 595,949, published Mar. 31, 1953.
Plastic (polystyrene chemical composition). International Minerals & Chemical Corporation. 576,485, June 23; Serial No. 640,159, published Mar. 31, 1953.
Rodenticide. The d-Con Company, Inc. 576,305, June 23; Serial No. 625,801, published Mar. 31, 1953.
Rodenticides. d-Con Company, Inc. 576,207, June 23; Serial No. 621,818, published Apr. 7, 1953.
Siliceous material. Sun Chemical Corporation. 576,354, June 23; Serial No. 631,505, published Mar. 31, 1953.
Sulfonated tallow products. Napco Chemical Company. 576,318, June 23; Serial No. 627,273, published Mar. 31, 1953.
Textile softeners. The Tanatex Corporation. 576,194, June 23; Serial No. 598,125, published May 8, 1951.
Wood preservatives, wood treating chemicals, insecticides, etc. Chapman Chemical Company. 576,471, June 23; Serial No. 636,512, published Apr. 7, 1953.

CLASS 7

Plastic clothes lines. Shuford Mills, Inc. 576,338, June 23; Serial No. 620,587, published Apr. 7, 1953.
Rope and twine. Columbian Rope Company. 576,316, June 23; Serial No. 627,175, published Mar. 31, 1953.
Rope, Wire. Broderick & Bascom Rope Company. 576,187, June 23; Serial No. 584,315, published Mar. 31, 1953.
Twine. Columbian Rope Company. 576,317, June 23; Serial No. 627,176, published Mar. 31, 1953.

CLASS 8

Cigarette paper booklets. Peter J. Schweitzer, Inc. 576,514, June 23; Serial No. 621,789.

CLASS 12

Acoustical tile suspension system. The Celotex Corporation. 576,211, June 23; Serial No. 607,618, published Mar. 10, 1953.
Asphaltic coatings. Phil King's Enterprises. 576,335, June 23; Serial No. 629,028, published Mar. 10, 1953.
Brick, Fire, refractory brick, tile, and molded bodies. Gladding, McBean & Co. 576,379, June 23; Serial No. 633,418, published Mar. 31 1953.
Building materials. V. A. Hamilton. 576,276, June 23; Serial No. 623,598, published Mar. 24, 1953.

Cement, Building. Southwestern Portland Cement Company. 576,402, June 23; Serial No. 634,610, published Mar. 3, 1953.

Cement, Fire, and high-temperature cement. Kolb Refractories Company. 576,241, June 23; Serial No. 616,672, published Mar. 3, 1953.

Cementitious material, Quick-setting. The Flintkote Company. 576,534, June 23; Serial No. 629,007.

Concrete, Ready mixed. Sakrete, Inc. 576,374, June 23; Serial No. 633,123, published Mar. 31, 1953.

Door, Fabric covered folding. Holcomb & Hoke Mfg. Co., Inc. 576,270, June 23; Serial No. 622,827, published Mar. 17, 1953.

Expanded-metal lath. Northwestern Expanded Metal Co. 92,256, re-renewed June 24, 1953. O. G. June 23.

Flexible sheet material composed of asphalt-impregnated fabric. Warren Southwest, Inc. 576,190, June 23; Serial No. 580,486, published Mar. 17, 1953.

Heat-refractory materials. Norton Company. 576,477, June 23; Serial No. 637,606, published Mar. 24, 1953.

Insulating siding. Hird & Son, Inc. 576,421, June 23; Serial No. 635,160, published Mar. 3, 1953.

Papers for use as moisture barriers in building-construction. Edgewater Paper Co. 576,428, June 23; Serial No. 635,293, published Mar. 10, 1953.

Plywood. Douglas Fir Plywood Association. 576,488, June 23; Serial No. 631,958, published Mar. 17, 1953.

Prefabricated houses. Texas Housing Company. 576,204, June 23; Serial No. 605,882, published Mar. 3, 1953.

Roof ridge roll, Ventilated. J. Bonforte. 576,521, June 23; Serial No. 624,925.

Shakes, wooden shingles and prefabricated wood shingle units. Fisk & Mason, Inc. 576,512, June 23; Serial No. 620,309.

Sheet metal concrete forms; steel stairways; steel towers, etc. Columbian Steel Tank Company. 576,184, June 23; Serial No. 578,371, published Mar. 17, 1953.

Shingles, Aluminum. Reynold Metals Company. 576,353, June 23; Serial No. 631,494, published Mar. 17, 1953.

Shingles, Composition. Allied Chemical & Dye Corporation. 576,257, June 23; Serial No. 619,558, published Mar. 24, 1953.

Shingles, Roofing. The Flintkote Company. 576,524, June 23; Serial No. 626,666.

Storm and screen sash, Combination. Rex Windows, Incorporated. 576,393, June 23; Serial No. 634,384, published Mar. 3, 1953.

Storm windows. Friendly Frost Sales Corp. 576,525, June 23; Serial No. 626,871.

Television towers and accessories. G. G. Booth. 576,522, June 23; Serial No. 625,329.

Tile. M. F. Druckenbrod. 576,174, June 23; Serial No. 558,800, published July 3, 1951.

Wall panels, Prefinished. Prefinished Wallpanel Council. 576,487, June 23; Serial No. 632,651, published Mar. 24, 1953.

Windows, Residential, industrial and architectural steel. Copco Steel & Engineering Company. 576,214, June 23; Serial No. 607,983, published Mar. 24, 1953.

CLASS 13

Articles of stainless steel—namely, coffee services, tea services, etc. Aktiebolaget Gense. 576,177, June 23; Serial No. 564,798, published Mar. 31, 1953.

Flush tank balls. Surgical Rubber Co. 576,396, June 23; Serial No. 634,422, published Mar. 24, 1953.

Heel, toe, and sole plates. Sacks-Barlow Foundries, Inc. 576,410, June 23; Serial No. 634,863, published Mar. 17, 1953.

Hose nozzles. D. E. Wadsworth. 576,373, June 23; Serial No. 632,967, published Mar. 10, 1953.

Metal cooking hollowware, etc. National Enameling & Stamping Company. 413,231, Apr. 17, 1945. Amended. O. G. June 23.

Metal posts and tube joints. Rheinische Rohrenwerke Aktiengesellschaft. 576,429, June 23; Serial No. 635,323, published Mar. 31, 1953.

Metal ribbed cross-bridging for floor joists. Franchet Metal Craft, Inc. 576,248, June 23; Serial No. 618,032, published Mar. 24, 1953.

Metal strap fastening seals, corrugated wood fasteners, joint fasteners, etc. Acme Steel Company. 576,250, June 23; Serial No. 618,222, published Oct. 7, 1952.

Pipe fittings, Cast. The Cooper Alloy Foundry Co. 576,352, June 23; Serial No. 631,471, published Mar. 10, 1953.

Quick release fasteners and clips, and quick release pins. Heli-Coil Corporation. 576,341, June 23; Serial No. 629,797, published Mar. 24, 1953.

Set of colorized tumblers of aluminum, a set of aluminum tumblers and a beverage set. Kromex Corporation. 576,439, June 23; Serial No. 635,539, published Mar. 31, 1953.

Shower cabinets. Flat Metal Manufacturing Company. 576,450–2, June 23; Serial Nos. 635,755–7, published Mar. 31, 1953.

Urinals. American Radiator & Standard Sanitary Corporation. 576,420, June 23; Serial No. 635,167, published Mar. 31, 1953.

Valves, Flush, water closet combinations, quiet flush equipment, etc. Sloan Valve Company. 576,222, June 23; Serial No. 610,589, published Apr. 7, 1953.

Valves, Gate. Fabri-Valve Co. of America. 576,389, June 23; Serial No. 634,320, published Mar. 24, 1953.

Valves, High pressure gas. Hantite Company. 576,463, June 23; Serial No. 636,172, published Apr. 7, 1953.

Washers and more specifically lock washers. The Mellowes Company. 576,462, June 23; Serial No. 636,138, published Apr. 7, 1953.

CLASS 14

Copper, Blister. Andes Copper Mining Company. 576,458, June 23; Serial No. 635,947, published Mar. 24, 1953.

Metals, Laminated. Metals & Controls Corporation. 576,440, June 23; Serial No. 635,541, published Mar. 24, 1953.

Metals, Laminated. Metals & Controls Corporation. 576,441, June 23; Serial No. 635,543, published Mar. 24, 1953.

Sheet and strip material formed from a special alloy steel. Allegheny Ludlum Steel Corporation. 576,277, June 23; Serial No. 623,790, published Mar. 17, 1953.

Special analysis, especially processed grey iron castings. The Dalton Foundries, Inc. 305,979, renewed Aug. 29, 1953. O. G. June 23.

Special analysis, especially processed malleable iron castings. The Dalton Foundries, Inc. 305,959, renewed Aug. 29, 1953. O. G. June 23.

Steel sheets. United States Steel Company. 576,321, June 23; Serial No. 627,721, published Mar. 10, 1953.

Steel, Tool, and steel bars, rods and sheets. Hawkridge Brothers Company. 576,345–6, June 23; Serial Nos. 630,779–80, published Mar. 31, 1953.

CLASS 15

Liquid solvent used in fuel oil treatment. W. D. Dubuque. 576,539, June 23; Serial No. 633,042.

Lubricants. The Alpha Corporation. 576,377, June 23; Serial No. 633,292, published Mar. 24, 1953.

Lubricants, Turbine. E. F. Houghton & Co. 576,499, June 23; Serial No. 594,323.

Oil, Lubricating. The Pure Oil Company. 576,455, June 23; Serial No. 635,885, published Mar. 17, 1953.

Oil, Lubricating, and lubricating greases. A. T. Juniper, Limited. 576,337, June 23; Serial No. 629,573, published Mar. 24, 1953.

Oils, Lubricating. Socony-Vacuum Oil Company, Incorporated. 576,411, June 23; Serial No. 634,868, published Mar. 10, 1953.

CLASS 16

Paint enamels, varnishes, lacquers. Andrew Brown Company. 305,087, renewed Aug. 1, 1953. O. G. June 23.

Paints. M. O. Meeker. 576,523, June 23; Serial No. 626,583.

Paints, etc., Dry and ready mixed. The Patterson-Sargent Company. 299,887, Dec. 27, 1932. Amended. O. G. June 23.

CLASS 17

Cigarettes, smoking tobacco, chewing tobacco, etc. Brown & Williamson Tobacco Corporation. 305,267, renewed Aug. 8, 1953. O. G. June 23.

Cigarettes, smoking tobacco, chewing tobacco, etc. Brown & Williamson Tobacco Corporation. 305,270, renewed Aug. 8, 1953. O. G. June 23.

Cigars. J. C. Winter & Co., Inc. 576,531, June 23; Serial No. 628,244.

Cigars, cigarettes, smoking tobacco, etc. Brown & Williamson Tobacco Corporation. 302,022, renewed Mar. 21, 1953. O. G. June 23.

Tobacco, Smoking and chewing. Brown & Williamson Tobacco Corporation. 305,268–9, renewed Aug. 8, 1953. O. G. June 23.

CLASS 18

Aid to hypodermoclysis and local anesthesia. Schenley Laboratories, Inc. 576,467, June 23; Serial No. 636,386, published Mar. 24, 1953.

Ammonium valerianate, formates compound, glycerophosphates, etc. H. S. Wellcome. 91,053, re-renewed Apr. 8, 1953. O. G. June 23.

Antacid-alkalizer. Neely Drug Company, Inc. 576,371, June 23; Serial No. 632,951, published Mar. 24, 1953.

Antacid tablets. Horlicks Limited. 576,360, June 23; Serial No. 632,085, published Mar. 24, 1953.

Antianemic preparation. Parke, Davis & Company. 576,245, June 23; Serial No. 617,208, published Mar. 17, 1953.

Antibiotic drug. White Laboratories, Inc. 576,426, June 23; Serial No. 635,243, published Mar. 10, 1953.

Antihistamine. Bever Corporation. 576,415, June 23; Serial No. 635,118, published Mar. 10, 1953.

Anti-histamine preparation. Broemmel Pharmaceuticals. 576,202, June 23; Serial No. 605,716, published Mar. 3, 1953.

Anti-histaminic preparation, Liquid. The Thenylhist Co. 576,478, June 23; Serial No. 637,623, published Mar. 10, 1953.

Antiphlogistic dressing. Demco, Inc. 576,464, June 23; Serial No. 636,209, published Mar. 24, 1953.

Anti-phlogistic paste. First Texas Chemical Manufacturing Company. 185,720, June 24, 1924. Republished June 23.

Antiseptic eye wash and antiseptic eye drops. M. F. Harris. 576,198, June 23; Serial No. 602,605, published Mar. 10, 1953.

Antitubercular comprising isonicotinic acid hydrazide. The Wm. S. Merrell Company. 576,358, June 23; Serial No. 631,938, published Mar. 10, 1953.

Appetite satient compositions. E. A. Ferguson, Jr. 576,266, June 23; Serial No. 621,666, published Mar. 3, 1953.

Aqueous solution of sodium hypochlorite. Gardiner Manufacturing Company, Inc. 576,269, June 23; Serial No. 622,534, published Mar. 17, 1953.

Biliary stimulant. The Drug Products Co., Inc. 576,279, June 23; Serial No. 623,826, published Mar. 24, 1953.

Capsules. Meyer Chemical Company. 576,173, June 23; Serial No. 557,671, published Mar. 3, 1953.

Chemical compound for relieving the pain of teething babies. Commerce Drug Co. 576,476, June 23; Serial No. 637,243, published Mar. 10, 1953.

Chemotherapeutic for tubercular diseases. Cilag Aktiengesellschaft. 576,425, June 23; Serial No. 635,217, published Mar. 10, 1953.

Chloral hydrate plus natural belladonna alkaloids. Fellows Medical Manufacturing Company, Inc. 576,479, June 23; Serial No. 638,137, published Mar. 17, 1953.

Chlorophyll suppositories. O/A Company, Inc. 576,323, June 23; Serial No. 627,834, published Mar. 24, 1953.

Citrate of magnesia. Philadelphia Magnesia Co. 297,832, renewed Oct. 4, 1952. O. G. June 23.

Compound of certain estrogenic substances. The Harrower Laboratory, Inc. 379,445, June 9, 1940. Republished June 23.

Deodorant tablet, Personal internal systemic. The Pharma-Craft Corporation. 576,220, June 23; Serial No. 610,226, published Mar. 24, 1953.

Dextrose tablets containing vitamin B_1. Cramer Chemical Co. 576,532, June 23; Serial No. 628,612.

Dietary supplement. General Products Corporation. 576,435, June 23; Serial No. 635,471, published Mar. 3, 1953.

Dietary supplement, Kon-Tur Products. 576,385, June 23; Serial No. 634,145, published Mar. 17, 1953.

Drugs and preparations for use against capillary defects, etc. Rhein-Chemie G. m. b. H. 576,237, June 23; Serial No. 610,128, published Mar. 3, 1953.

Drugs, Veterinary. Norden Laboratories. 576,481, June 23; Serial No. 639,071, published Mar. 3, 1953.

Dyspepsia tablets. Dr. Richards Association, Inc. 576,247, June 23; Serial No. 617,880, published Mar. 3, 1953.

Enteral tube feeding solution. Dade Reagents, Inc. 576,359, June 23; Serial No. 632,019, published Mar. 10, 1953.

Enteric coated tablet. Geigy Company, Inc. 576,215, June 23; Serial No. 608,108, published Mar. 24, 1953.

Healing and antiseptic oil. The Grove Laboratories, Inc. 568,016, Dec. 30, 1952. Amended. O. G. June 23.

High potency vitamin-containing solids. Nopco Chemical Company. 576,350–1, June 23; Serial Nos. 631,369–70, published Mar. 17, 1953.

Hormone preparation. Sharp & Dohme, Incorporated. 576,203, June 23; Serial No. 605,878, published Mar. 3, 1953.

Insoluble penicillin and heparin salts. Abbott Laboratories. 576,466, June 23; Serial No. 636,328, published Mar. 10, 1953.

Lipotropic agent. E. R. Squibb & Sons. 576,433, June 23; Serial No. 635,439, published Mar. 3, 1953.

Liquid for external use. J. H. Miller. 576,404, June 23; Serial No. 634,698, published Mar. 3, 1953.

Liquid preparation for treatment of and relief from fungous infections of the skin. Elara Products, Inc. 576,243, June 23; Serial No. 617,020, published Mar. 3, 1953.

Liquid preparation indicated in the treatment of acne in all its forms, etc. The Drug Products Co., Inc. 576,280, June 23; Serial No. 623,828, published Mar. 24, 1953.

Malt extract with beef and iron, with cascara segrada, etc. H. S. Wellcome. 91,280, re-renewed Apr. 22, 1953. O. G. June 23.

Medical preparation. Cutter Laboratories. 576,436–7, June 23; Serial Nos. 635,523–4, published Mar. 10, 1953.

Medical preparation. Drug Specialties, Inc. 576,365, June 23; Serial No. 632,511, published Mar. 24, 1953.

Medical preparation. Drug Specialties, Inc. 576,366–7, June 23; Serial Nos. 632,512–13, published Mar. 3, 1953.

Medical preparation. Drug Specialties, Inc. 576,368, June 23; Serial No. 632,516, published Mar. 10, 1953.

Medical preparation. Physicians and Hospitals Supply Company, Inc. 576,296, June 23; Serial No. 625,029, published Mar. 24, 1953.

Medical preparation for the relief of chest colds, etc. Mountain Folks Remedy Company. 576,444, June 23; Serial No. 635,607, published Mar. 10, 1953.

Medicated dressings. Thoroughbred Remedy Corp. 576,251, June 23; Serial No. 618,379, published Mar. 17, 1953.

Medicinal bitters. Martini & Rossi Corporation. 576,260, June 23; Serial No. 624,552, published Mar. 3, 1953.

Medicinal preparation. Burroughs Wellcome & Co. (U. S. A.) Inc. 576,384, June 23; Serial No. 634,029, published Mar. 3, 1953.

Medicinal preparation. Burroughs Wellcome & Co. (U. S. A.) Inc. 576,399, June 23; Serial No. 634,450, published Mar. 17, 1953.

Medicinal preparations or ingredients thereof. O'Connell Brothers, Inc. 576,227, June 23; Serial No. 613,380, published Dec. 30, 1952.

Medicinal substances. H. S. Wellcome. 90,801, re-renewed Mar. 25, 1953. O. G. June 23.

Medicine for digestive and stomach troubles, Internal. First Texas Chemical Manufacturing Company. 187,991, Aug. 12, 1924. Republished June 23.

Medicine for poultry. O. P. Luse. 240,823, Apr. 10, 1928. Republished June 23.

Medicine for the treatment of amenorrhea, dysmenorrhea, etc., Internal. First Texas Chemical Manufacturing Company. 187,990, Aug. 12, 1924. Republished June 23.

Milk sugar U. S. P., lanoline anhydrous U. S. P., coal tar disinfectant, etc. Chas. L. Huisking & Co., Inc. 301,660, renewed Mar. 7, 1953. O. G. June 23.

Mixtures and combinations of antibiotics, Various. Heyden Chemical Corporation. 576,457, June 23; Serial No. 635,917, published Mar. 17, 1953.

Nose drops. Erwin Pharmacals, Inc. 576,378, June 23; Serial No. 633,353, published Feb. 24, 1953.

Nose drops and cold capsules. Rhinopto Company. 576,361, June 23; Serial No. 632,133, published Mar. 24, 1953.

Obesity tablets. A. A. Firks. 435,553, Dec. 30, 1947. Republished June 23.

Penicillin and streptomycin product. Schenley Laboratories, Inc. 576,207, June 23; Serial No. 606,089, published Mar. 17, 1953.

Pharmaceutical compound. Casimir Funk Laboratories, Inc. 576,412, June 23; Serial No. 634,887, published Mar. 24, 1953.

Pharmaceutical preparation. Rand Pharmaceutical Co., Inc. 576,292, June 23; Serial No. 624,758, published Mar. 17, 1953.

Powder dispensed in capsules, tablets, or as a powder for the treatment of rheumatism. First Texas Chemical Manufacturing Company. 185,719, June 24, 1924. Republished June 23.

Preparation for the relief of asthma. The Purdue Frederick Company. 576,472, June 23; Serial No. 636,605, published Dec. 23, 1952.

Preparation for the treatment of acute and chronic malaria. First Texas Chemical Manufacturing Company. 185,723, June 24, 1924. Republished June 23.

Preparation for the treatment of all types of chronic bronchitis, phthisis, and a gastrointestinal antiseptic. First Texas Chemical Manufacturing Company. 174,045, Oct. 2, 1923. Republished June 23.

Preparation for the treatment of hormonal deficiencies. The Upjohn Company. 576,287, June 23; Serial No. 624,434, published Mar. 3, 1953.

Preparation for the treatment of infant bowel disorders. First Texas Chemical Manufacturing Company. 185,989, July 1, 1924. Republished June 23.

Preparation for the treatment of rheumatic and kindred diseases. First Texas Chemical Manufacturing Company. 185,722, June 24, 1924. Republished June 23.

Preparation for the treatment of rheumatism and arthritis. Martax Botonical Corporation. 576,195, June 23; Serial No. 598,803, published Mar. 17, 1953.

Product used as an antiseptic. American Scientific Laboratories, Inc. 576,380, June 23; Serial No. 633,702, published Mar. 3, 1953.

Remedy for colds, catarrh, tonsilitis, etc. The Bacorn Company. 92,779, re-renewed July 29, 1953. O. G. June 23.

Remedy for the expurgation of worms from hogs, sheep, horses, etc. Live Stock Remedy Company. 92,807, re-renewed July 29, 1953. O. G. June 23.

Sodium gentisate. Gold Leaf Pharmacal Company, Inc. 576,239, June 23; Serial No. 616,314, published July 15, 1952.

Solution for relief of soreness of bruises, etc. C. D. Williams. 576,475, June 23; Serial No. 636,868, published Mar. 10, 1953.

Stimulant and diuretic for the treatment of kidney and bladder disorders. First Texas Chemical Manufacturing Company. 185,721, June 24, 1924. Republished June 23.

Stomarh tablets. Northwestern National Bank of Minneapolis. 576,386, June 23; Serial No. 634,213, published Mar. 17, 1953.

Tablets for analgesic and antipyretic purposes. Ames Company, Inc. 576,355, June 23; Serial No. 631,515, published Mar. 31, 1953.

Tonic bitters. Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited. 90,152, Feb. 11, 1913. Republished June 23.

Vitamin A capsules and fortified liver compound. V. E. Meadows. 576,281, June 23; Serial No. 623,897, published Mar. 3, 1953.

Vitamin preparation. First Texas Chemical Manufacturing Co. 409,093, Sept. 12, 1944. Republished June 23.

Vitamin preparation. Marvin R. Thompson, Inc. 576,262, June 23; Serial No. 620,374, published Mar. 17, 1953.

Vitamin tonic. Dr. Geo. S. Long Corporation. 576,242, June 23; Serial No. 616,720, published Mar. 10, 1953.

Vitamin wafers, Chocolate and/or lemon or fruit flavored. R. W. Stabler. 576,507, June 23; Serial No. 614,017.

CLASS 19

Automobile camp and house trailers. Traveleer Trailer Company, Incorporated. 576,324, June 23; Serial No. 627,987, published Apr. 7, 1953.
Automobile seat covers. Ewen and Rose Elsman, Inc. 576,500, June 23; Serial No. 507,673.

CLASS 21

Apparatus for remote control dictation systems. Thomas A. Edison, Incorporated. 576,246, June 23; Serial No. 617,282, published Mar. 24, 1953.
Batteries, Storage. Vitalic Battery Company, Inc. 576,526, June 23; Serial No. 627,478.
Electric floor polishing machines. Multi-Clean Products, Incorporated. 576,345, June 23; Serial No. 637,417.
Electrical apparatus, component parts thereof, and accessories therefor. George A. Philbrick Researches Inc. 576,372, June 23; Serial No. 632,955, published Mar. 31, 1953.
Electrically operated machine. Columbus Limited. 576,322, June 23; Serial No. 627,810, published Mar. 31, 1953.
Electrically-operated mixing equipment. Mixing Equipment Co., Inc. 227,991, May 17, 1927. Republished June 23.
Frequency stabilizing apparatus, including component parts thereof. Servo Corporation of America. 576,236, June 23; Serial No. 615,945, published Mar. 24, 1953.
Miscellaneous electrical houseware appliances. Miller and Rhoads, Incorporated. 576,272, June 23; Serial No. 623,104, published Mar. 17, 1953.
Pie baking machines and turn spits employing infra-red rays. E. L. Ireland. 576,529, June 23; Serial No. 628,108.
Radio receiving sets, and dry cell batteries and for television sets. Spiegel, Inc. 576,235, June 23; Serial No. 615,580, published Mar. 24, 1953.
Signal devices, Electrically operated audible and/or visual. Sperti Faraday Inc. 576,303, June 23; Serial No. 625,771, published Mar. 31, 1953.
Sound recording and reproducing machines, Electrically-operated. Dictaphone Corporation. 576,403, June 23; Serial No. 634,634, published Mar. 24, 1953.
Spark plugs. Circofire Spark Plug Company. 576,282, June 23; Serial No. 623,949, published Mar. 31, 1953.
Voltage regulators. Sorensen & Company, Inc. 576,299, June 23; Serial No. 625,135, published Mar. 31, 1953.

CLASS 22

Bicycles, Children's or sidewalk, and children's scooters, sleds, and wagons. Aldens, Inc. 576,491, June 23; Serial No. 564,422.
Bowling pins. Vulcan Corporation. 576,473–4, June 23; Serial Nos. 636,662–3, published Apr. 7, 1953.
Dolls' wigs. Meyer Jacoby Corporation. 576,465, June 23; Serial No. 636,242, published Apr. 7, 1953.
Fishing lines. Chas. Garcia & Co., Inc. 576,516, June 23; Serial No. 622,433.
Fishing lines, steel shafts for golf clubs, fishing reels, etc. The Horton Manufacturing Company. 303,259, renewed May 16, 1953. O. G. June 23.
Fishing reels. Higbie Manufacturing Company. 576,460, June 23; Serial No. 636,078, published Apr. 7, 1953.
Games and toys. J. Bregman. 576,209, June 23; Serial No. 606,694, published Apr. 7, 1953.
Toy coin registering banks. General Metal Products Corp. 576,469, June 23; Serial No. 636,416, published Apr. 7, 1953.

CLASS 23

Axes, hatchets, adzes, etc. The Collins Company. 145,062, July 26, 1921. Republished June 23.
Cardboard box-making machines and parts thereof. H. R. Davis, Jr. 576,336, June 23; Serial No. 629,091, published Mar. 24, 1953.
Duplicating machines. Davidson Manufacturing Corporation. 576,171, June 23; Serial No. 532,918, published Mar. 17, 1953.
Family and manufacturing sewing-machines, parts thereof, etc. The Singer Manufacturing Company. 93,126, re-renewed Aug. 19, 1953. O. G. June 23.
Files. Etrofile & Tool Manufacturing Corp. 576,288, June 23; Serial No. 624,480, published Mar. 24, 1953.
Fire extinguishers, Portable. Merlite Industries, Inc. 576,454, June 23; Serial No. 635,840, published Mar. 24, 1953.
Fluid compressors. Carrier Corporation. 576,314, June 23; Serial No. 626,853, published Mar. 24, 1953.
Graders, Potato, potato seed treating machines, bin loaders, etc. Boggs Manufacturing Corporation. 294,646, June 7, 1932. Republished June 23.
Lawn mowers. Toro Manufacturing Corporation of Minnesota. 576,343, June 23; Serial No. 630,234, published Mar. 24, 1953.
Machines for popping and treating popcorn. Karmelkorn Corporation. 303,463, May 23, 1933. Republished June 23.
Pickaxes, crowbars, wrenches, etc. The Collins Company. 170,241, July 10, 1923. Republished June 23.
Pumps, Circulating. Magnaflow Pump Corp. 576,461, June 23; Serial No. 636,134, published Mar. 24, 1953.
Roll feeds for power presses and punch presses. Carl G. Peterson Co. 576,176, June 23; Serial No. 582,273, published Aug. 5, 1952.
Shears, Grass. Sekely Industrial Tool and Mfg., Inc. 576,490, June 23; Serial No. 555,202.
Universal joints. Republic Gear Company. 576,325, June 23; Serial No. 628,427, published Mar. 24, 1953.
Well-boring plants. The Oil Well Engineering Company, Ltd. 284,247, June 23, 1931. Republished June 23.

CLASS 24

Flatwork spreading machines. M. A. Pocock. 576,383, June 23; Serial No. 632,385, published Mar. 24, 1953.

CLASS 25

Release retainers for the latches of swinging doors. H. W. Glidden. 576,258, June 23; Serial No. 619,571, published Mar. 24, 1953.
Safes, money chests, and vaults. Herring-Hall-Marvin Safe Company. 576,285, June 23; Serial No. 624,270, published Mar. 24, 1953.

CLASS 26

Draftsmen's articles. Eugene Dietzgen Co. 576,302, June 23; Serial No. 625,720, published Feb. 3, 1953.
Electronic equipment—namely, electronic heterodyne frequency meters. Federal Manufacturing & Engineering Corp. 576,256, June 23; Serial No. 610,295, published Feb. 24, 1953.
Heat and/or pressure sensitive chart paper. Technicon Cardiograph Corporation. 576,185, June 23; Serial No. 850,341, published Feb. 10, 1953.
Indicators which are adapted to change color when subjected to a predetermined time-temperature exposure. Aseptic-Thermo Indicator Co. 438,373–4, Apr. 20, 1948. Republished June 23.
Internal combustion engine fuel and lubricant dispensing pumps. Martin & Schwartz, Inc. 576,259, June 23; Serial No. 610,639, published Feb. 24, 1953.
Liquid level controls, Electronically operated. The Creamery Package Mfg. Company. 576,170, June 23; Serial No. 528,263, published Feb. 10, 1953.
Machines which test and record upon charts texture of bread dough. Brabender Corporation. 576,249, June 23; Serial No. 618,147, published Feb. 24, 1953.
Mechanical exponent counter for slide rules. C. L. Weckesser. 576,273, June 23; Serial No. 623,171, published Feb. 24, 1953.
Photographic equipment, and/or photographic accessories, etc. Graflex, Inc. 576,210, June 23; Serial No. 607,286, published Feb. 17, 1953.
Rules, calculating rules, triangles and T-squares. A. W. Faber-Castell Pencil Co., Inc. 576,308, June 23; Serial No. 626,158, published Feb. 3, 1953.
Scales and automatic weighing, totalising, and recording machines and their parts. N. V. Servo-Balans. 576,254, June 23; Serial No. 619,165, published Feb. 24, 1953.
Wheel supported sighting and indicating devices for testing wheel alignment. Wilco Products, Inc. 576,275, June 23; Serial No. 623,526, published Feb. 24, 1953.

CLASS 27

Watches. E. Leichter. 576,494–5, June 23; Serial Nos. 570,857–8.
Watches. Sheffield Merchandise, Inc. 576,505, June 23; Serial No. 612,514.
Watches. H. Shragie. 576,544, June 23; Serial No. 635,933.
Watches and clocks. R. Gsell & Co., Inc. 576,548, June 23; Serial No. 638,765.

CLASS 28

Bracelets, Watch. Jacoby-Bender, Inc. 576,552, June 23; Serial No. 639,642.
Gem materials. Sierra Gems Incorporated. 576,498, June 23; Serial No. 593,835.

CLASS 29

Brushes. John L. Whiting-J. J. Adams Company. 160,726, Oct. 24, 1922. Republished June 23.
Brushes. John L. Whiting-J. J. Adams Company. 160,735, Oct. 24, 1922. Republished June 23.

CLASS 32

Furniture, Bedroom. American Manufacturing Concern. 576,506, June 23; Serial No. 613,796.

CLASS 34

Tanks, Hot water, and range boilers. Cemline Corporation. 355,124, Mar. 8, 1938. Republished June 23.

CLASS 35

Braided strip packing. Johns-Manville Corporation. 576,484, June 23; Serial No. 640,123, published Mar. 31, 1953.
Gaskets or seals of metal tubing. The D. S. D. Manufacturing Company. 576,461, June 23; Serial No. 634,523, published Apr. 7, 1953.
Metal hose, flexible metal tubing, and metal reinforced hose. Chicago Metal Hose Corporation. 576,200, June 23; Serial No. 603,570, published May 29, 1951.

Metallic tubing, Flexible. Pennsylvania Flexible Metallic Tubing Company. 576,482, June 23; Serial No. 639,772, published Apr. 7, 1953.
Packing. Endura Manufacturing Co. 92,881, re-renewed Aug. 5, 1953. O. G. June 23.

CLASS 36

Accordions. S. Ferri. 576,313, June 23; Serial No. 628,788, published Apr. 7, 1953.
Harmonicas. The Fred. Gretsch Manufacturing Company. 576,326, June 23; Serial No. 628,202, published Apr. 7, 1953.
Phonograph records, Grooved. Mercury Record Corporation. 576,356, June 23; Serial No. 631,674, published Apr. 7, 1953.

CLASS 37

Crayons. Markwell Manufacturing Co., Inc. 576,519, June 23; Serial No. 623,802.
Envelopes, Correspondence. The Wolf Detroit Envelope Company. 576,511, June 23; Serial No. 619,275.
Paper, Bond. Carew Manufacturing Company. 232,101, Aug. 30, 1927. Republished June 23.
Paper, Book. Kimberly-Clark Corporation. 304,183, renewed June 27, 1953. O. G. June 23.
Paper napkins, paper towels, and facial tissues. Hudson Pulp and Paper Corporation. 576,498, June 23; Serial No. 581,593.
Papers, Laminated. The Cromwell Paper Company. 576,515, June 23; Serial No. 621,868.
Papers, Wrapping. Riegel Paper Corporation. 304,089, June 20, 1933. Republished June 23.
Records folders, Household, expanding files and pocket wallets. The Smead Manufacturing Company. 576,533, June 23; Serial No. 628,065.
Wrapping and packaging materials, Cellophane and cellulose acetate. Cello-Masters, Incorporated. 441,125, Oct. 19, 1948. Republished June 23.

CLASS 38

Magazine. Fishing Gazette Publishing Corp. 576,493, June 23; Serial No. 568,603.
Newsletter, Monthly. J. Levy. 576,546, June 23; Serial No. 637,484.
Publications, Automotive. For-Dom Inc. 576,527, June 23; Serial No. 627,570.
Savings stamp. National Advertising Company. 576,549, June 23; Serial No. 638,912.
Section or column appearing in a newspaper or periodical. Memphis Press-Scimitar Company. 301,803, renewed Mar. 14, 1953. O. G. June 23.

CLASS 39

Blouses, Children's. Harry Glaser, Inc. 576,362, June 23; Serial No. 632,206, published Mar. 31, 1953.
Blouses, shirt waists, and waists, Ladies'. Lerner Blouse Co. 576,333, June 23; Serial No. 628,607, published Mar. 31, 1953.
Boots, shoes, slippers, and sandals. Perth Shoe Company Limited. 301,890, renewed Mar. 21, 1953. O. G. June 23.
Brassières. The Warner Brothers Company. 303,763, renewed June 6, 1953. O. G. June 23.
Brassières, foundation garments, girdles, and garter belts. Beauteen-Fit Company. 576,397, June 23; Serial No. 634,443, published Mar. 31, 1953.
Brassières, Ladies', misses', and junior. Pliantform Foundations, Inc. 576,432, June 23; Serial No. 635,432, published Mar. 31, 1953.
Certain garments for men, women, and children—namely, sport shirts, polo shirts, etc. Cory Casual Sportswear Corp. 576,538, June 23; Serial No. 632,022.
Clothing, Ladies', men's, boys', and girls'. A. W. Kelly. 576,328, June 23; Serial No. 628,280, published Mar. 31, 1953.
Coats, fur jackets, fur capes, Women's, misses', and junior misses' fur. Zimmerman Scher Inc. 576,370, June 23; Serial No. 632,011, published Mar. 24, 1953.
Coats, vest coats, sleeveless vest coats, etc., Men's. The Crown Overall Mfg. Co. 301,347, renewed Feb. 28, 1953. O. G. June 23.
Creeper, Infant's. Perfect Knit Togs, Inc. 576,319, June 23; Serial No. 627,275, published Mar. 24, 1953.
Garments, Bust confining. Kops Brothers, Inc. 305,694, renewed Aug. 22, 1953. O. G. June 23.
Garments, Women's fur. Neiman-Marcus Company. 576,357, June 23; Serial No. 631,812, published Mar. 31, 1953.
Gloves. B. Ames. 576,301, June 23; Serial No. 625,708, published Mar. 31, 1953.
Gloves. The Boss Manufacturing Company. 576,398, June 23; Serial No. 634,449, published Apr. 7, 1953.
Gloves. Edmont Manufacturing Company. 576,183, June 23; Serial No. 575,261, published Mar. 31, 1953.
Gloves, Fabric work. Wells Lamont Corporation. 576,315, June 23; Serial No. 627,024, published Mar. 31, 1953.
Hat bodies. Pollak Industrial Corp. 576,442, June 23; Serial No. 635,550, published Mar. 31, 1953.
Hats. The Haverfield Company. 576,383, June 23; Serial No. 633,760, published Mar. 24, 1953.
Hats, caps, bonnets, etc., Women's and misses'. Saks & Company. 576,291, June 23; Serial No. 624,568, published Mar. 24, 1953.

Hats, Women's. Mercantile Stores Company, Inc. 576,382, June 23; Serial No. 633,730, published Mar. 24, 1953.
Head covering, Ornamental lace. D. McFaull. 576,234, June 23; Serial No. 614,706, published Mar. 31, 1953.
Head coverings, Ladies' and girls'. Glensder Textile Corp. 576,300, June 23; Serial No. 634,326, published Mar. 24, 1953.
Hosiery. M. Katz. 576,284, June 23; Serial No. 624,138, published Mar. 31, 1953.
Hosiery. Television Hosiery Corporation. 576,310, June 23; Serial No. 626,222, published Mar. 31, 1953.
Hosiery and knitted underwear. E. M. Townsend & Co. 92,288, re-renewed June 24, 1953. O. G. June 23.
Hosiery, Ladies'. Chadbourn Hosiery Mills, Incorporated. 576,413, June 23; Serial No. 634,889, published Mar. 31, 1953.
Hosiery, Ladies'. Rosedale Knitting Company. 576,508, June 23; Serial No. 615,083.
Hosiery, Ladies' and misses'. Troxler-Lynch Hosiery Company. 576,427, June 23; Serial No. 635,280, published Mar. 31, 1953.
Hosiery, Men's and women's. Chester H. Roth Co., Inc. 576,311, June 23; Serial No. 626,344, published Mar. 31, 1953.
Hosiery, Nylon. The Nolde & Horst Company. 576,376, June 23; Serial No. 633,269, published Mar. 24, 1953.
Hosiery, Women's. Federated Department Stores, Inc. 576,535, June 23; Serial No. 629,481.
Hosiery, Women's. F. J. Kros. 576,360, June 23; Serial No. 632,676, published Mar. 31, 1953.
Leather bands for caps and hats. Brizel Leather Corporation. 576,446, June 23; Serial No. 635,683, published Mar. 31, 1953.
Lingerie. M. P. Giovinazzi. 576,219, June 23; Serial No. 610,211, published Mar. 31, 1953.
Neckties, necktie and handkerchief combination sets, and handkerchiefs. Beau Brummell Ties, Inc. 576,373, June 23; Serial No. 633,141, published Mar. 24, 1953.
Overcoats and top coats, Men's. L. Sunderland. 576,286, June 23; Serial No. 624,374, published Mar. 31, 1953.
Pajamas, Men's and women's. Wilker Bros. Co. 576,306, June 23; Serial No. 625,938, published Oct. 21, 1952.
Pants, shirts and dungarees. B. F. Davis Garment Co., Inc. 576,334, June 23; Serial No. 628,999, published Mar. 24, 1953.
Piece goods, Cotton, and diapers. Riegel Textile Corporation. 304,673, July 18, 1933. Republished June 23.
Shirts, collars and cuffs, underwear, etc., Men's and boys'. Piedmont Shirt Company. 576,307, June 23; Serial No. 626,113, published Mar. 24, 1953.
Shirts, Men's sport. The Manhattan Shirt Company. 576,418, June 23; Serial No. 635,140, published Mar. 31, 1953.
Shirts, pajamas, drawers, etc., Men's, women's, girls' and boys' dress and lingerie. Saks & Company. 304,947, renewed July 25, 1953. O. G. June 23.
Shirts, robes, swim shorts, etc., Men's and boys' outer. Cisco, Inc. 576,340, June 23; Serial No. 631,146, published Mar. 24, 1953.
Shoes, Women's and children's. Lancaster Shoe Company. 576,517, June 23; Serial No. 622,943.
Shoes, Women's leather. W. B. Coon Company. 294,622, June 7, 1932. Republished June 23.
Skirts, suits, dresses, etc., Women's and girls' knitted. Lass O'Scotland, Ltd. 576,395, June 23; Serial No. 634,414, published Apr. 7, 1953.
Skirts, suits, dresses, etc., Women's and girls' knitted. Lass O'Scotland, Ltd. 576,400, June 23; Serial No. 634,473, published Apr. 7, 1953.
Sleepers, Infant. V. T. Daniels. 576,381, June 23; Serial No. 633,716, published Mar. 24, 1953.
Stockings, hosiery. Etablissements Vitoux. 576,223, June 23; Serial No. 610,958, published Mar. 31, 1953.
Suits; coats; slacks; etc., Men's. A. Sagner's Son. 576,416, June 23; Serial No. 634,922, published Mar. 31, 1953.
Suits, Men's. Merit Clothing Company. 576,443, June 23; Serial No. 635,606, published Mar. 31, 1953.
T-shirts, Men's. Manchester Knitted Fashions, Inc. 576,392, June 23; Serial No. 634,377, published Mar. 24, 1953.
Topcoats, overcoats and tuxedo suits, Men's. House of Worsted-Tex, Inc. 576,447, June 23; Serial No. 635,097, published Mar. 31, 1953.
Trousers, Men's. Gutstein-Tuck, Inc. 576,387, June 23; Serial No. 634,254, published Mar. 24, 1953.
Underwear and fabric gloves, Ladies'. Gotham Hosiery Company, Inc. 576,238, June 23; Serial No. 616,170, published Mar. 31, 1953.
Underwear, Knit, and cut and sewn underwear, etc. The Manhattan Shirt Company. 305,643, renewed Aug. 22, 1953. O. G. June 23.
Underwear, Men's, boys' and children's cotton, infants' and children's cotton sleepers, boys' and girls' pajama type cotton sleepers, etc. Standard Knitting Mills, Inc. 576,230, June 23; Serial No. 613,793, published Mar. 31, 1953.
Underwear, pajamas, sport shirts, etc., Men's, women's and children's. Robert Reis & Co. 576,298, June 23; Serial No. 625,129, published Mar. 31, 1953.

Underwear. Women's and children's knit. Globe Knitting Works. 576,438, June 23; Serial No. 635,530, published Mar. 31, 1953.
Wearing apparel, Ladies' outer. Smart Set Frocks. 576,304, June 23; Serial No. 625,827, published Mar. 31, 1953.

CLASS 42

Curtains, Lace, lace table cloths, lace bed spreads, and lace piece goods. North American Lace Co. Inc. 576,445, June 23; Serial No. 635,610, published Apr. 7, 1953.
Fabric, backing material, Processed. Acme Backing Corporation. 302,838, renewed May 2, 1953. O. G. June 23.
Fabrics. American Viscose Corporation. 576,188, June 23; Serial No. 584,567, published Dec. 4, 1951.
Fabrics. Beaunit Mills, Inc. 576,449, June 23; Serial No. 635,738, published Apr. 7, 1953.
Fabrics, Knitted. I. A. Wyner & Co., Inc. 576,347, June 23; Serial No. 630,914, published Apr. 7, 1953.
Fabrics, Pile. Sidney Blumenthal & Co., Inc. 302,324, renewed Apr. 11, 1953. O. G. June 23.
Fabrics, Textile. Dan River Mills, Incorporated. 576,388, June 23; Serial No. 634,302, published Jan. 13, 1953.
Fabrics, Textile. Hampton Mills, Inc. 576,537, June 23; Serial No. 631,801.
Fabrics, Textile. Wm. E. Hooper & Sons Co. 306,063, renewed Sept. 5, 1953. O. G. June 23.
Fabrics, Textile. Shirley Fabrics Corp. 576,533, June 23; Serial No. 640,049.
Fabrics, Woven. Tobler, Ernst & Traber, Inc. 576,201, June 23; Serial No. 605,450, published Apr. 7, 1953.
Piece goods. A. M. Perlman, Inc. 576,448, June 23; Serial No. 635,713, published Apr. 7, 1953.
Piece goods. Texas Textile Mills. 576,217, June 23; Serial No. 608,521, published Mar. 24, 1953.
Piece goods, Cotton, and diapers. Riegel Textile Corporation. 304,873, July 18, 1933. Republished June 23.
Piece goods, Woolen. A. D. Juilliard & Co., Inc. 576,240, June 23; Serial No. 616,500, published Dec. 25, 1951.
Towels, Linen, linen piece goods, dish towels, etc. A. J. Puschin. 576,510, June 23; Serial No. 618,899.

CLASS 43

Thread. The American Thread Company. 576,470, June 23; Serial No. 636,456, published Apr. 7, 1953.
Thread. Groves Thread Company, Inc. 576,330, June 23; Serial No. 628,335, published Mar. 31, 1953.
Thread, Nylon quilting. The Heminway & Bartlett Mfg. Co. 576,453, June 23; Serial No. 635,833, published Mar. 31, 1953.
Thread, Sewing. K. G. Gütermann & Co. 576,364, June 23; Serial No. 632,475, published Mar. 31, 1953.
Yarns. Celanese Corporation of America. 576,434, June 23; Serial No. 635,464, published Apr. 7, 1953.
Yarns. Falls Yarn Mills. 419,182, Feb. 5, 1946. Republished June 23.

CLASS 44

Electro-therapeutic shoes. R. M. Keller. 576,528, June 23; Serial No. 627,952.
Instruments for magnetically removing metal particles and loops for wiping foreign objects from the eye. M. Kline. 576,492, June 23; Serial No. 566,619.
Prophylactic rubber articles. The Killian Manufacturing Company. 304,213, renewed June 27, 1953. O. G. June 23.
Saliva ejector, anti-splash dental guard, electric dental hand piece, etc. Dentronics, Inc. 576,206, June 23; Serial No. 605,978, published Dec. 25, 1951.
Seamless elastic arch grippers, elastic hip reducers, shoulder braces, etc. Horn Surgical Company. 306,051, renewed Sept. 5, 1953. O. G. June 23.

CLASS 45

Ginger ale, sarsaparilla, and root beer. J. Friedrich. 179,115, Feb. 5, 1924. New certificate. O. G. June 23.
Grape juice. Church Grape Juice Company. 576,547, June 23; Serial No. 638,694.
Soft drinks, Maltless, and carbonated waters. J. D. Brooks. 576,504, June 23; Serial No. 611,637.
Soft drinks, Maltless, and carbonated waters. Coca-Cola Bottling Co. of Worcester. 576,536, June 23; Serial No. 629,933.

CLASS 46

Bread, butter and fresh milk. The Kroger Co. 434,669, Dec. 2, 1947. Republished June 23.
Candy. The House of Bauer. 576,213, June 23; Serial No. 607,922, published Sept. 23, 1952.
Candy and chewing gum. Candy Crafters, Inc. 576,255, June 23; Serial No. 619,292, published Sept. 23, 1952.
Candy, Milk. Fujii Junichi Shoten Limited. 576,480, June 23; Serial No. 638,529, published Mar. 31, 1953.
Canned fruits; and canned vegetables. Richmond-Chase Company. 134,276, Aug. 24, 1920. Republished June 23.
Canned fruits and vegetables. The Kroger Co. 437,048, Mar. 30, 1948. Republished June 23.
Canned vegetables, tomato puree, sauerkraut, etc. Stokely Brothers & Company. 300,045, renewed Jan. 3, 1953. O. G. June 23.
Cheese. Schwendermans. 299,959, renewed Jan. 3, 1953. O. G. June 23.
Coffee. J. A. Folger & Co. 576,489, June 23; Serial No. 511,604.
Coffee. M. Siegel. 576,175, June 23; Serial No. 560,932, published Mar. 31, 1953.
Confections, Frozen. Eskimo Pie Corporation. 302,649, renewed Apr. 25, 1953. O. G. June 23.
Confections, Frozen. Fruit Products Corporation. 576,289, June 23; Serial No. 624,535, published Dec. 23, 1952.
Flour, Wheat. Dixie-Portland Flour Co. 576,179, June 23; Serial No. 571,694, published Feb. 24, 1953.
Food, Stock. General Mills, Inc. 302,765, Apr. 25, 1933. Republished June 23.
Fruits, Deciduous. Washington State Fruit Commission. 576,486, June 23; Serial No. 597,424, published Mar. 31, 1953.
Gelatin, Prepared. Whitman Grocery Company. 40,345, re-renewed May 12, 1953. O. G. June 23.
Honey in the comb, extracted honey, and granulated honey. The A. I. Root Company. 93,026, re-renewed Aug. 12, 1953. O. G. June 23.
Ice milk base. R. G. Moench & Co., Inc. 576,530, June 23; Serial No. 628,220.
Rice. N. W. Hutchings, Sr., and N. W. Hutchings, Jr. 576,199, June 23; Serial No. 603,147, published Feb. 24, 1953.
Seafood products, Frozen. Atalanta Trading Corp. 576,320, June 23; Serial No. 627,665, published Mar. 31, 1953.
Taffy, Salt-water. Theo. J. Lapres, Inc. 266,394, Jan. 14, 1930. Republished June 23.
Tea. Joseph Tetley & Co., Inc. 303,954, renewed June 13, 1953. O. G. June 23.
Wheat-flour. Valier & Spies Milling Co. 90,665, re-renewed Mar. 11, 1953. O. G. June 23.

CLASS 47

Champagne wine. Charles Heidsieck Reims Société à Responsabilité Limitée. 302,737, renewed Apr. 25, 1953. O. G. June 23.
Wines. Wine Growers Guild. 576,518, June 23; Serial No. 623,789.

CLASS 48

Malt extract. H. S. Wellcome. 92,492, re-renewed July 8, 1953. O. G. June 23.
Sauces, Flavoring and condiment. S. B. Morse. 576,501, June 23; Serial No. 603,806.

CLASS 49

Whiskey. Bloch Bros. 299,580, renewed Dec. 13, 1952. O. G. June 23.
Brandy. Ponner Morson Company. 576,497, June 23; Serial No. 593,827.
Whisky. Haig & Haig Limited. 576,542, June 23; Serial No. 634,255.
Whisky. Scotia Distillers Limited. 304,971, renewed July 25, 1953. O. G. June 23.
Whisky. Slater, Rodger & Company, Limited. 302,284, Apr. 11, 1933. Republished June 23.

CLASS 50

Carpet pads and carpet lining. Chicago Curled Hair Company. 304,480, July 11, 1933. Republished June 23.

CLASS 51

Bath bubbling and perfuming compound, skin lotion, toilet water, etc. T. Sistrunk. 576,283, June 23; Serial No. 623,989, published Mar. 10, 1953.
Chemical preparation to be added to permanent waving solution. S. Bonat & Bro., Inc. 576,540, June 23; Serial No. 633,751.
Cold cream and hairdressing pomade. J. A. Martin. 212,672, May 11, 1926. Republished June 23.
Cold wave solutions. Ifilling Company. 576,178, June 23; Serial No. 570,229, published Nov. 1, 1949.
Cologne. J. B. Nethercutt. 576,293, June 23; Serial No 624,789, published Mar. 17, 1953.
Cosmetics. Arkwright, Incorporated. 576,192, June 23; Serial No. 590,792, published Oct. 17, 1950.
Cosmetics. J. B. Nethercutt. 576,294, June 23; Serial No. 624,792, published Mar. 17, 1953.
Creme rinse. Richard Hudnut. 576,391, June 23; Serial No. 634,328, published Feb. 24, 1953.
Denture adhesive having deodorizing properties. Spray-Dent Co., Inc. 576,502, June 23; Serial No. 606,814.
Dressing cream for the hair. H. Smithline. 576,229, June 23; Serial No. 613,386, published Mar. 17, 1953.
Face Cream. Bristol-Myers Company. 576,225, June 23; Serial No. 611,636, published Feb. 24, 1953.
Face cream and face lotion. Gouband of Paris, Inc. 576,422, June 23; Serial No. 635,180, published Mar. 10, 1953.
Face powder. Helena Rubinstein Inc. 576,180, June 23; Serial No. 572,926, published Mar. 31, 1953.

Hair and scalp cream, Nonmedicinal, and a preparation for straightening and dressing the hair. H. Smithline. 576,228, June 23; Serial No. 613,385, published Mar. 17, 1953.
Hair bleach preparation. R. Harris. 576,232, June 23; Serial No. 614,145, published Mar. 10, 1953.
Hair dressings. F. A. Huff. 576,189, June 23; Serial No. 587,680, published Feb. 24, 1953.
Hair pre-wave lotion and developer powders. J. L. Younghusband. 576,244, June 23; Serial No. 617,101, published Feb. 24, 1953.
Hand cream. Polychrome Corporation. 576,216, June 23; Serial No. 608,123, published Mar. 17, 1953.
Liquid odoriferous material suitable for use in perfumes and cosmetics. Givaudan-Delawanna, Inc. 576,186, June 23; Serial No. 581,417, published Mar. 3, 1953.
Lotion, After-shave, hair tonic, and talc. Old 97 Manufacturing Co. 576,419, June 23; Serial No. 635,146, published Mar. 3, 1953.
Lotion, Face. C. C. Marroquin. 576,312, June 23; Serial No. 626,681, published Mar. 17, 1953.
Lotion, Shaving. The Barbasol Company. 576,208, June 23; Serial No. 606,199, published July 31, 1951.
Nail enamel and lipstick. Revlon Products Corporation. 576,344, June 23; Serial No. 630,438, published Mar. 17, 1953.
Nail polish. Peggy Sage, Inc. 576,274, June 23; Serial No. 623,317, published Mar. 17, 1953.
Perfume. Caron Corporation. 576,550–1, June 23; Serial Nos. 639,016–17.
Perfume and cologne. Rolley, Inc. 576,348, June 23; Serial No. 630,956, published Mar. 17, 1953.
Perfume ingredients. Farbenfabriken Bayer. 576,260, June 23; Serial No. 619,862, published Mar. 17, 1953.
Perfume, toilet water, face lotion and cream. Goubaud of Paris, Inc. 576,423, June 23; Serial No. 635,181, published Mar. 10, 1953.
Perfumes and sachets. Guy T. Gibson, Inc. 301,790, renewed Mar. 14, 1953. O. G. June 23.
Permanent wave solution. J. E. Bernfeld. 576,297, June 23; Serial No. 625,091, published Mar. 3, 1953.
Pomade, Hair coloring. Page Limited, Inc. 576,513, June 23; Serial No. 621,724.
Preparation for use as a deodorant and perspiration corrective. C. S. Smith. 300,535, renewed Jan. 24, 1953. O. G. June 23.
Shaving cream, after-shave lotion, deodorant cream, etc. Richard Hudnut. 576,252, June 23; Serial No. 618,966, published Mar. 17, 1953.
Skin lotion. Lucien Lelong, Inc. 576,342, June 23; Serial No. 630,010, published Mar. 17, 1953.
Toilet water. Richard Hudnut. 90,641, re-renewed Mar. 11, 1953. O. G. June 23.
Tooth paste, tooth powder, mouth wash. Worcester Salt Co. 304,054, renewed June 20, 1953 O. G June 23.
Underarm deodorant. Bridgeport Brass Company. 576,253, June 23; Serial No. 619,008, published Feb. 24, 1953.

CLASS 52

Cleaner for mechanical dishwashing. Eastern Chemical Corporation. 576,181, June 23; Serial No. 573,535, published Oct. 30, 1951.
Cleaners, Upholstery and rug. Anchor Chemical Corporation. 576,509, June 23; Serial No. 616,936.
Detergent and soap compound. Homestead Valve Manufacturing Company. 576,205, June 23; Serial No. 605,902, published Mar. 24, 1953.
Detergent, Sudsing soap-like. The Procter & Gamble Company. 576,172, June 23; Serial No. 554,044, published Mar. 31, 1953.
Liquid absorbent and floor sweeping compound. Wyandotte Chemicals Corporation. 576,182, June 23; Serial No. 574,679, published Apr. 7, 1953.
Soap, Synthetic powdered. Grace-Lee Products, Inc. 576,197, June 23; Serial No. 601,497, published Mar. 31, 1953.

CLASS 103

Cleaning furs. Chelsea Process, Inc. 576,557, June 23; Serial No. 634,162.
General construction, Maintenance, and repair of private homes, apartment buildings, etc. Adirondack Construction Corporation. 576,555, June 23; Serial No. 606,250.
Landscape and garden maintenance. J. De Arruda. 576,556, June 23; Serial No. 619,607.

CLASS 105

Transporting by truck household goods and general commodities, etc. Lyon Van & Storage Co. 576,554, June 23; Serial No. 535,248.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice)

Arden Farms Co., assignee: *See*—
Berch, Samuel H.

Berch, Samuel H., deceased, Beverly Hills, Calif., by Arden Farms Co., assignee, Los Angeles, Calif. Container flap folding apparatus. Re. 23,669, June 23.

Chromatic Television Laboratories, Inc., assignee: *See*—
Okolicsanyi, Ferenc.

Currivan, John F., New York, N. Y. Integral carton for protection of fragile articles. Re. 23,670, June 23.

Cyphers, Elmer B., Cranford, N. J., assignor to Standard Oil Development Company. Extreme pressure lubricant. Re. 23,671, June 23.

Okolicsanyi, Ferenc, London, England, assignor, by mesne assignments, to Chromatic Television Laboratories, Inc. Television tube. Re. 23,672, June 23.

Standard Oil Development Company, assignee: *See*—
Cyphers, Elmer B.

LIST OF PLANT PATENTEES

Germain's, Inc., assignee. *See*—
Whisler, Milton L.

Grullemans, John J., assignee. *See*—
Manske, Richard H. F.

Manske, Richard H. F., Guelph, Ontario, Canada, assignor to J. J. Grullemans, Cleveland, Ohio. Dicentra plant. 1,198, June 23.

Whisler, Milton L., assignor to Germain's, Inc., Van Nuys, Calif. Rose plant. 1,199, June 23.

Whisler, Milton L., assignor to Germain's, Inc., Van Nuys, Calif. Rose plant. 1,200, June 23.

LIST OF DESIGN PATENTEES

Armstrong Rubber Company, The, assignee: *See*—
Roberts, Eugene A.

Askew, Phyllis B., Meriden, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. 169,885, June 23.

Baker, George A., Walnut Park, Calif., assignor to M. Weil. Plate or similar article. 169,886, June 23.

Berman, Harry, Bronx, V. Errico, New Hyde Park, and D. Lofrese, Bronx, N. Y. Spectacle front. 169,887, June 23.

Beyer, Gerhard R., Conway, N. H. Wall and tower unit for a toy fortress or similar article. 169,888, June 23.

Bollenbach, Madeleine J., Chicago, Ill. Spat or similar article. 169,889, June 23.

Borowitz, David, Chicago, Ill. Electric lamp base. 169,890, June 23.

Boucher, Marcel, Eltingville, N. Y. Bracelet or similar article. 169,891, June 23.

Breen, Frederick M., Westchester, assignor to Coty, Inc., New York, N. Y. Holder for cosmetic containers or similar article. 169,892, June 23.

Bristol Steel & Iron Works, Inc., assignee: *See*—
Ferguson, James R.

Bryan, Henry T., Chattanooga, Tenn. Stocking. 169,893, June 23.

Burrows, Samuel, assignor to Neo Products Co., Chicago, Ill. Thermometer. 169,894, June 23.

Burton, Henry C., New York, N. Y., assignor to S. A. F. F. A. Soc. P. Az. Fabriche Fiammiferi Ed Affini, Milan, Italy. Open end housing for slide type match covers. 169,895, June 23.

Carol Electrical Control, Inc., assignee: *See*—
Weissenstein, Carl.

Chrysler Corporation, assignee: *See*—
Exner, Virgil M.

Coty, Inc., assignee: *See*—
Breen, Frederick M.

Delamater, John A., assignee: *See*—
Fisk, Hollis M.

Desley Fabrics, Division of J. H. Thorp and Co. Inc., assignee: *See*—
Scholle, Charles F.

Diehl, G. M., Machine Works, Inc., The, assignee: *See*—
Gustin, George M.

Electro-Voice, Incorporated, assignee: *See*—
Hoodwin, Louis S.

Errico, Vito: *See*—
Berman, Harry, Errico, and Lofrese.

Exner, Virgil M., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Automobile. 169,896, June 23.

Ferguson, James R., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Traffic signal. 169,897, June 23.

Ferguson, James R., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Traffic signal. 169,898, June 23.

Fisk, Hollis M., Oakland, assignor to J. A. Delamater, San Francisco, Calif. Sock display form. 169,899, June 23.

Frischmann, Joseph A., Cleveland Heights, Ohio. Lift truck. 169,900, June 23.

Futuristic Products Company, assignee: *See*—
Wasserman, Sidney, and Sterns.

General Electric Company, assignee: *See*—
Rassman, George C.

Goldberg, Max, Glencoe, Ill. Ice-cream cone dispenser. 169,901, June 23.

Gustin, George M., assignor to The G. M. Diehl Machine Works, Inc., Wabash, Ind. Gang rip-saw. 169,902, June 23.

Hawkinson, Hazel J., San Diego, Calif. Copybook holder. 169,903, June 23.

Hoodwin, Louis S., Bridgeman, assignor to Electro-Voice, Incorporated, Buchanan, Mich. Reentrant and direct diffraction loud-speaker horn. 169,904, June 23.

International Latex Corporation, assignee: *See*—
Owen, Harold A.

Laughlin, Clayton A., Minneapolis, assignor to Northwest Plastics, Inc., St. Paul, Minn. Cigarette package dispenser. 169,905, June 23.

Lewis, Melba G., Denver, Colo. Copyholder for typists. 169,906, June 23.

Lofrese, Dominick: *See*—
Berman, Harry, Errico, and Lofrese.

Lyon, George A., Detroit, Mich. Wheel cover or similar article. 169,907, June 23.

Merit, Helen, and H. G. Wear, Jr., New York, N. Y. Posture chair. 169,908, June 23.

Mulcrone, James J., Sr., Minneapolis, Minn. Combined scissors sheath and spool holder. 169,909, June 23.

Mustee, Bernard E., Cleveland, Ohio. Laundry tub. 169,910, June 23.

Neo Products Co., assignee: *See*—
Burrows, Samuel.

Netzer, Hans, New York, N. Y. Settee. 169,911, June 23.

Northwest Plastics, Inc., assignee: *See*—
Laughlin, Clayton A.

Owen, Harold A., assignor to International Latex Corporation, Dover, Del. Bib. 169,912, June 23.

Rassman, George C., Pittsfield, Mass., assignor to General Electric Company. Laminated plastic sheet. 169,913, June 23.

Roberts, Eugene A., Hamden, assignor to The Armstrong Rubber Company, West Haven, Conn. Pneumatic tire. 169,914, June 23.

S. A. F. F. A. Soc. P. Az. Fabriche Fiammiferi Ed Affini, assignee: *See*—
Burton, Henry C.

Scholle, Charles F., Darien, Conn., assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y. Textile fabric or similar article. 169,915, June 23.

Sterns, Allen M.: *See*—
Wasserman, Sidney, and Sterns.

Stevens, Helen M., New York, N. Y. Combined bed cover support and health board. 169,916, June 23.

Stowell, Evelyn L., Garden City, Mich. Miniature toy bassinet. 169,917, June 23.

Tait, George C., Schillington, Pa. Stocking. 169,918, June 23.

Tait, William, Wyomissing, Pa. Stocking. 169,919, June 23.

Vece, Victor J., Redwood City, Calif. Barber chair apron. 169,920, June 23.

Wallace, R., & Sons Manufacturing Company, assignee: *See*—
Askew, Phyllis B.

Wasserman, Sidney, and A. M. Sterns, assignors to Futuristic Products Company, Detroit, Mich. Toy gun. 169,921, June 23.

Wear, Horace G., Jr.: *See*—
Merit, Helen, and Wear.

Weil, Max, assignee: *See*—
Baker, George A.

Weissenstein, Carl, New York, assignor to Carol Electrical Control, Inc., Brooklyn, N. Y. Rheostat housing. 169,922, June 23.

Wolf, Oscar, New York, N. Y. Handbag or similar article. 169,923, June 23.

Wolf, Oscar, New York, N. Y. Handbag or similar article. 169,924, June 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abramsen, Finn B., Baldwin Township, Allegheny County, Pa. Cross rolling mill. 2,642,763, June 23.

Acock, George W., H. G. Suppers, and H. W. Voorhees, Morrisville, Pa., assignors to John A. Roebling's Sons Company, Trenton, N. J. Control casing and manufacture thereof. 2,642,898, June 23.

Adams, Frank P., assignee: *See*—
Bourne, Gordon F., and Kennedy.

Admiral Corporation, assignee: *See*—
Redfield, George E.
Swanson, Edward W., and Radke.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Fisher, Charles H., and Mast.
Hall, Harlow H.
Larkin, Roger A.

Ahrens-Fox, Inc., assignee: *See*—
Nepper, Richard C.

Ahrens, Gerhard W., New York, N. Y., assignor to Eonometal Corporation. Electrodeposited composite article and making the same. 2,642,654, June 23.

Aigrain, Pierre R., assignor to International Standard Electric Corporation, New York, N. Y. Volume control for pulse code modulation. 2,643,293, June 23.

Aircraft-Marine Products Inc., assignee: *See*—
Berg, Quentin.

Air Force, United States of America as represented by the Secretary of the United States, assignee: *See*—
Zobel, Theodor W.

Air-O Fan Products Corporation, assignee: *See*—
Wright, David P., and Fish.

Airtron, Inc., assignee: *See*—
Hamilton, Jean W.

Akai, Saburo, Obta-Ku, Tokyo, Japan. Phonomotor or a small-type electric motor for phonographs. 2,642,750, June 23.

Albiswerk Zurich A. G., assignee: *See*—
De Stadelhofen, Jean M., Müller-Strobel, Patry and Strub.

Alcorn, James D.: *See*—
Woodruff, Leo B., Alcorn, and Hammerstrom.

Alexander, Arthur F., Cleveland, Ohio. Retractable tool handle. 2,642,907, June 23.

Allan, Benjamin W., and F. O. Rummery, Baltimore, Md., assignors to The Glidden Company, Cleveland, Ohio. Preparing pure cadmium red pigment. 2,643,196, June 23.

Allen, Alden, Menominee, Mich., assignor to Ansul Chemical Company, Marinette, Wis. Apparatus for clearing conduits in dry chemical fire-extinguishing systems. 2,642,944, June 23.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Almström, Knut, Garde, Hedeström, and Brodersen.
Forwald, Haakon.

Alström, Knut, A. Garde, S. E. Hedeström, and E. Brodersen, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Means for governing power stations. 2,643,345, June 23.

Alsterberg, Carl E.: *See*—
McLaren, Ian H., and Alsterberg.

Aluminum Company of America, assignee: *See*—
Huntington, Richard L., and Reid.

Alvord, Charles C.: *See*—
Flygare, Carl G., and Alvord.

American Bosch Corporation, assignee: *See*—
Berlyn, Martin J., and Broderick.
Miller, Sidney E.
Putnam, John F.

American Brake Shoe Company, assignee: *See*—
Notvest, Robert W.

American Brush Machinery Co., Inc., assignee: *See*—
Marks, Theodore, and J. and L. M. Jimenez.

American Car and Foundry Company, assignee: *See*—
Patton, John W.

American Cast Iron Pipe Company, assignee: *See*—
Carter, Sam F., Jr.

American Clay Works & Supply Co., assignee: *See*—
Montague, Harley H.

American Cyanamid Company, assignee: *See*—
Kropa, Edward L., and Thomas.
Marsh, Nat H.
Mooradian, Shannon, and Millson.

American Machine and Metals, Inc., assignee: *See*—
Le Van, Ambrose E.

American Optical Company, assignee: *See*—
Boeder, Paul A. K.
Grosvenor, Benjamin.
Stewart, Walter A.

Amity Leather Products Co., assignee: *See*—
Reis, John P.

Amo, Ivan J., North Plainfield, assignor to M & W Company, Inc., Newark, N. J. Apparatus and method for producing disk phonograph records. 2,642,621, June 23.

Anchor Manufacturing Company, assignee: *See*—
Johansson, Ernest G.

Andersen, Henry C., Lancaster, Calif. Television antenna. 2,643,335, June 23.

Andersbock, Chester E., assignor to Goodman Manufacturing Company, Chicago, Ill. Articulated conveyer with swiveling means. 2,642,982, June 23.

Anderson, John E.: *See*—
Martin, Erle, Beebe, and Anderson.

Anderson, John W., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper arm. 2,642,611, June 23.

Andrews, William E., New York, N. Y. Tunnel portal construction. 2,642,788, June 23.

Anjeskey, Alphonse F., Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Overhead monorail system. 2,642,814, June 23.

Ansul Chemical Company, assignee: *See*—
Allen, Alden.

Appleby, Paul E., assignor to Wingfoot Corporation, Akron, Ohio. Apparatus for stitching tires. 2,642,921, June 23.

Aram, Nathan W., Park Ridge, Ill., assignor to Zenith Radio Corporation. Turnstile antenna. 2,643,334, June 23.

Ardsley Curtain Co., Inc., assignee: *See*—
Sherman, Harry.

Arkell and Smiths, assignee: *See*—
Vogel, Lawrence E.

Armco Steel Corporation, assignee: *See*—
Kenyon, John W.

Armour and Company, assignee: *See*—
Fencil, Louise K.

Armstrong Siddeley Motors Limited, assignee: *See*—
Thomas, Albert, and Fellows.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Brenner, Abner, Couch, and Williams.
Eloranta, Valto K.
Gaston, Donald H.

Arnold, Charles E., Milton, Mass., assignor to Sylvania Electric Products Inc. Wave guide directional coupler. 2,643,298, June 23.

Arnt, Charles H., and W. A. Bowman, Chicago, Ill. Wire clipper and stripper. 2,642,657, June 23.

Arutunoff, Armais, Bartlesville, Okla. Apparatus for drilling deep wells. 2,643,095, June 23.

Arvidson, Donald N.: *See*—
Durkin, William J., and Arvidson.

Aschenbach, Theodora T., Washington, D. C. Fountain toothbrush. 2,642,606, June 23.

Atlas Powder Company, assignee: *See*—
Buck, Frank H.

Augustine, Frederick B., Jefferson, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Halogen-promoted oxidation. 2,643,269, June 23.

Avco Manufacturing Corporation, assignee: *See*—
Depweg, Leonard S.
Oeler, Richard C., and Constantine.

Aves, Fred J., Los Angeles, Calif. Curb signal. 2,642,830, June 23.

Ayers, Arnold L., and C. R. Scott, Bartlesville, Okla., assignors to Phillips Petroleum Company. Winterized vegetable oil and producing the same. 2,643,260, June 23.

Babcock & Wilcox Company, The, assignee: *See*—
Evans, Sidley O.

Backhouse, Headley T., Sunningdale, England. Sheet feeding apparatus. 2,643,121, June 23.

Backus, Cecil F., Wilmington, Del. Nonskid crepe rubber composition. 2,643,234, June 23.

Baigent, Henri, Limited, assignee: *See*—
Baigent, Henry C.

Baigent, Henry C., assignor to Henri Baigent Limited, Bournemouth, England. Model vehicle and guide rail therefor. 2,642,815, June 23.

Baker, Corwin W., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Stitch separating machine. 2,642,595, June 23.

Baker, Richard E., Woodbury Heights, and F. D. Covely, Collingswood, N. J., assignors to Radio Corporation of America. Pulse signal decoding system. 2,643,368, June 23.

Baldanza, Nicholas T., Rutherford, assignor, by mesne assignments, to Columbia Protektosite Co., Inc., Carlstadt, N. J. Making molded brushes. 2,643,158, June 23.

Baltus, Anthony F.: *See*—
De Van, Louis P., and Baltus.

Bank, Albert M., Jersey City, and A. J. Katz, Belleville, N. J. Sofa bed. 2,642,583, June 23.

Barber-Colman Company, assignee: *See*—
Glassow, Franklyn A.

Barnes Drill Co., assignee: *See*—
Casson, Kenneth H.

Barr, Victor L., Philadelphia, Pa., assignor to Roller Bearing Company of America, Trenton, N. J. Antifriction carriage roller. 2,643,162, June 23.

Barteit, Harold L., Rockford, Ill. Quick opening bag. 2,643,049, June 23.

Bartow Beacons Inc., assignee: *See*—
Bartow, John B.

Bartow, John B., assignor to Bartow Beacons Inc., Blue Bell, Pa. System of aerial navigation. 2,643,374, June 23.

Bashford, William L., Fresno, Calif. Agitating machine for bottled beverages and the like. 2,643,102, June 23.

Bata, narodni podnik, assignee: *See*—
Chmelar, Vaclav.

Bateman, Ralph C., and B. J. Schnitzer, assignors to Goodyear Aircraft Corporation, Akron, Ohio. Upholstered spring construction for furniture. 2,642,928, June 23.

Bates, Harry H., Oregon, Ill. Trench making machine and the like. 2,643,096, June 23.

Beckett, Clay C., Washington, D. C. Occupant propelled amusement device. 2,643,122, June 23.

Beebe, Murray C., Jr.: *See*—
Martin, Erle, Beebe, and Anderson.

Beech, Austin S., assignor to Foundry Equipment Limited, Leighton Buzzard, England. Hopper and like containers. 2,642,979, June 23.

Belisle, Adelard J., South Hadley, assignor to The Berkline Corporation, Chicopee Falls, Mass. Cushion support assembly. 2,642,931, June 23.

Bell, David B., Long Beach, Calif. Liquid feeding apparatus. 2,642,886, June 23.

Bell, David B., Long Beach, Calif. Control for closed vessels. 2,643,025, June 23.

Bell, David B., Long Beach, Calif. Liquid feeding apparatus. 2,643,103, June 23.

Bell, Francis R., assignor to The Rover Company Limited, Solihull, England. Heat interchange apparatus. 2,642,897, June 23.

Bellamy, John I., Wheaton, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Selecting and actuating mechanism for cross-bar switches. 2,643,299, June 23.

Bendix Aviation Corporation, assignee: *See*—
Deardorff, Clinton E.
MacCallum, Alan M., and Russell.
McLaren, Ian H., and Alsterberg.

Bennett, Bailey, and G. H. McFadden, Columbus, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich. Making latex foam. 2,643,233, June 23.

Beretta, John W., San Antonio, Tex. Rigid tension-truss bridge. 2,642,598, June 23.

Berg, Quentin, New Cumberland, assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Terminal of the grommet type. 2,643,366, June 23.

Berger, Benjamin S., South Orange, assignor to Philip Florin, Incorporated, Newark, N. J. Billfold wallet. 2,642,912, June 23.

Bergqvist, Åke T., Finspong, Sweden. Locking device for telescopic structures. 2,643,143, June 23.

Berkline Corporation, The, assignee: *See*—
Belisle, Adelard J.

Berlyn, Martin J., Enfield, Conn., and J. J. Broderick, assignors to American Bosch Corporation, Springfield, Mass. Fuel supply apparatus for internal-combustion engines. 2,642,806, June 23.

Berndt, Richard F., assignor to Virkotype Corporation, Racine, Wis. Powder dispenser and distributor. 2,643,032, June 23.

Bernier, Jean, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil. Method and apparatus for power measurement and detection at ultrahigh frequencies. 2,643,280, June 23.

Bertin, Jean H., and R. H. Marchal, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France. Aerodynamic valve. 2,642,895, June 23.

Bester, Leonard R., Washington, D. C. Added air charge and water injection system. 2,642,852, June 23.

Bethlehem Steel Company, assignee: *See*—
Mancke, Edgar B.

Bingham, David W., Brighton, Victoria, Australia. Apparatus for heating and/or cooling canned food or other substances. 2,642,795, June 23.

Birdsall, George T., Bethel, Conn. Method of and means for making hat bodies. 2,643,034, June 23.

Birdsall, James E., Bound Brook, assignor to C. F. Mueller Co., Jersey City, N. J. Machine for making food products. 2,642,819, June 23.

Black-Clawson Company, The, assignee: *See*—
Croake, William D., and Ellis.

Black, Leon P., Cliffside Park, N. J. Automatic facsimile writing and drawing machine. 2,642,659, June 23.

Blanchard, William A., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Movable reed for electric protection. 2,642,900, June 23.

Body, Alfred C., and J. T. Sabol, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Progressive high-frequency heating of variable-dimension shafts. 2,643,325, June 23.

Boeder, Paul A. K., assignor to American Optical Company, Southbridge, Mass. Variable power bifocal lens. 2,642,776, June 23.

Bohannon, George S., Colorado Springs, Colo., assignor to Crown Machine and Tool Company, Inc., Fort Worth, Tex. Plasticizing machine. 2,642,623, June 23.

Bond, Donald C., Northbrook, and M. Savoy, assignors to The Pure Oil Company, Chicago, Ill. Gel modifier for oils and preparing it. 2,643,228, June 23.

Bonnaud, Henri, Viroflay, France, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Heat exchanger. 2,643,100, June 23.

Bonnette, Leroy E.: *See*—
Born, Ellis H., and Bonnette.

Borg-Warner Corporation, assignee: *See*—
Flinn, George E.

Borgeson, Paul W., Little Falls, N. J., assignor to Raytheon Manufacturing Company, Newton, Mass. Pulse interval time division system. 2,643,330, June 23.

Born, Ellis H., Columbus, and L. E. Bonnette, Delaware, assignors to The Denison Engineering Company, Columbus, Ohio. Hydraulic apparatus. 2,642,809, June 23.

Borst, Robert O.: *See*—
Wells, Olga V., Borst, and Stapp.

Bosch, Robert, G. m. b. H., assignee: *See*—
Vanui, Pier G.

Boschi, Antonio, assignor to Societa Applicazioni Gomma Antivibranti, Milan, Italy. Resilient wheel. 2,643,153, June 23.

Bostwick, Charles O., Stanton, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Organic compounds of titanium. 2,643,262, June 23.

Bott, Perry J., Little Rock, Ark., assignor to James R. Kearney Corporation, St. Louis, Mo. Live line stick with rain shield. 2,643,281, June 23.

Bour, Robert C., assignor to National Cylinder Gas Company, Chicago, Ill. Removing acetylene from gaseous mixtures. 2,642,956, June 23.

Bourne, Gordon F., Oakland, and W. E. Kennedy, Hayward, Calif.; said Bourne assignor of one-third to F. F. Adams and one-third to R. H. Eckhoff, Piedmont, Calif. Reel. 2,643,073, June 23.

Bourquin, Maurice, Wavre, Saint-Blaise, Switzerland. Tobacco stringing machine. 2,643,008, June 23.

Bowden, Andrew T., Newcastle-upon-Tyne, W. Hyniszak, and P. Kolb, Whitley Bay, assignors of one-fourth to C. A. Parsons & Company Limited, Newcastle-upon-Tyne, England. Regenerative heat exchanger. 2,643,097, June 23.

Bowers, Eric H., assignor to Dowty Equipment Limited, Cheltenham, England. Hydraulic power unit. 2,642,804, June 23.

Bowman, Woodrow A.: *See*—
Arnt, Charles H., and Bowman.

Boyce, Eugene L., and M. D. Burrows, assignors to Pioneer Gen-E-Motor Corporation, Chicago, Ill. Lawn mower and actuating means therefor. 2,642,709, June 23.

Boyd, Ira E., Sr., Warren, Ohio. Supporting rack and holder for mortar hods. 2,642,998, June 23.

Bozzalla, Delbert J., Los Angeles, Calif. Charge ejecting nail polish applicator. 2,642,607, June 23.

Brackett, Donald L., assignor of two-thirds to General Sheet Metal Works, Waterloo, Iowa. Grain conveyer. 2,643,150, June 23.

Bradburd, Ervin M., Fairlawn, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge device and circuits for neutralized coaxial line amplifiers. 2,643,302, June 23.

Bradley, Stanley, Cleveland, Ohio. Roto reflector. 2,642,777, June 23.

Bradley, James C., Oreland, Pa., assignor to The Electric Storage Battery Company. Separator protector. 2,643,279, June 23.

Bradley, Theodore F.: *See*—
Shokal, Edward C., Newey, and Bradley.

Brady, James J., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Conical scan antenna. 2,643,338, June 23.

Brams, Stewart L., West Alexandria, Ohio, assignor to General Motors Corporation, Detroit, Mich. Adhesive composition containing butadiene-styrene copolymer and tack-producing resin. 2,643,235, June 23.

Brandt Automatic Cashier Company, assignee: *See*—
Buchholz, Arnold R.

Brauer, Otto H., Three Rivers, Mich, assignor to Fairbanks, Morse & Co., Chicago, Ill. Sound deadening means for car wheels. 2,643,152, June 23.

Braun, Karl J., Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y. Perforating and slotting punch. 2,642,940, June 23.

Brennan, Elmer W., assignor to The Pure Oil Company, Chicago, Ill. Sulfurizing terpene hydrocarbons. 2,643,248, June 23.

Brenner, Abner, Chevy Chase, D. E. Couch, Hyattsville, Md., and E. K. Williams, Charlottesville, Va., assignors to the United States of America as represented by the Secretary of the Army. Electrodeposition of phosphorus-nickel and phosphorus-cobalt alloys. 2,643,221, June 23.

Brenner, Henry G., Michigan City, Ind., assignor to Joseph Manufacturing Company, Cleveland, Ohio. Outlet for grease separators and the like. 2,642,995, June 23.

Brickman, Alan E., Worcester, Mass., assignor to United States Steel Corporation. Transload device. 2,642,789, June 23.

Brlechle, Ambrosius, Brooklyn, assignor to Remington Rand Inc., Buffalo, N. Y. Document photographing machine. 2,642,773, June 23.

Brisson, John R., W. O., and L. W., Norway, Mich. Front or rear-end truck loader. 2,643,011, June 23.

Brisson, Leslie W.: *See*—
Brisson, John R., W. O., and L. W.

Brisson, Walter O.: *See*—
Brisson, John R., W. O., and L. W.

Bristol Laboratories Inc., assignee: *See*—
Staab, Frank W., and Kolbas.

Brittain, Richard J., Jr., Berkeley Heights, N. J., assignor to General Motors Corporation, Detroit, Mich. Railroad journal box. 2,643,163, June 23.

Broady, Francis V., South Gate, Calif. Apparatus for retrieving fishing tackle or the like. 2,642,993, June 23.

Broderick, John J.: *See*—
Berlyn, Martin J., and Broderick.

Brodersen, Einar: *See*—
Almström, Knut, Garde, Hedström, and Brodersen.

Brodtmann, Walter B., New Orleans, La. Visible record device. 2,642,832, June 23.

Broeren, Frank L., Neenah, A. S. Kruger, Green Bay, and V. C. Jones, Appleton, assignors to Marathon Corporation, Rothschild, Wis. Cabinet for dispensing sheet material. 2,643,070, June 23.

Brooks, Charles A., Roanoke, Va. Fish bait incubator. 2,642,836, June 23.

Brooks, Ralph C., Turtle Creek, Pa., assignor to Westinghouse Air Brake Company. Control system for fluid pressure actuated propeller clutches. 2,642,972, June 23.

Brown, Newman T., Edmonds, assignor to F. A. Mortimer, Seattle, Wash. Fireplace heating system. 2,642,859, June 23.

Brown, Thomas W. F., Newcastle-on-Tyne, and H. G. Yates, Northumberland, assignors to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England. Elastic fluid turbine support. 2,643,078, June 23.

Brown, Walter L., Lansdowne, Pa. Cold weather insulation garment and fabric. 2,642,571, June 23.

Browne, Archie S., Detroit, Mich. Reverse air flow convertible household vacuum cleaner. 2,642,616, June 23.

Browning, George, Wilmette, assignor to Sunbeam Corporation, Chicago, Ill. Snap action sadiron lift. 2,642,682, June 23.

Brush Development Company, The, assignee: *See*—
Kornei, Otto.
Williams, Alfred L. W.

Bryant, Lorton W., Connersville, Ind., assignor, by mesne assignments, to Dresser Industries, Inc. Shaft sealing device for pumps, compressors, and similar apparatus. 2,643,141, June 23.

Buchholz, Arnold R., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Coin sorter control mechanism. 2,642,881, June 23.

Buchholz, Arnold R., assignor to Brandt Automatic Cashier Company, Watertown Wis. Coin sorting and counting machine. 2,642,882, June 23.

Buck, Frank H., assignor to Atlas Powder Company, Wilmington, Del. Apparatus for recovering gas borne particles. 2,642,953, June 23.

Budiane, Stanley J., assignor to Motorola, Inc., Chicago, Ill. Liquid fuel burning heater and operating system therefor. 2,642,933, June 23.

Budiane, Stanley J., assignor to Motorola, Inc., Chicago, Ill. Vehicle heater. 2,643 062, June 23.

BullDog Electric Products Company, assignee: *See*—
Robertson, William, and Higgins.

Bullock, Norman J.: *See*—
Geyer, Howard M., and Bullock.

Burgess Battery Company, assignee: *See*—
Porth, Henry W.
Simpson, Arthur W.

Burkart, Edward H.: *See*—
Simon, Eli, Thomas, and Burkart.

Burnett, Edward N., Oakland, Calif., assignor to Gerber Products Company, Fremont, Mich. Valve construction. 2,642,894, June 23.

Burns, Clifford M., Tacoma, Wash. Artificial fishing lure. 2,642,695, June 23.

Burrows, Milford D.: *See*—
Boyce, Eugene L., and Burrows.

Burson, Harrison S., Sr., Cleveland, Ohio. Movie film feeder with simultaneous unwinding and rewinding action. 2,643,118, June 23.

Burton, Drury R., Uniontown, and H. W. Wilson, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Making non-blocking film of rubber hydrochloride. 2,643,202, June 23.

Burton, Robert B., assignor to General Motors Corporation, Detroit, Mich. Single-leaf spring clamp. 2,643,111 June 23.

Butler, George T.: *See*—
Ford, Ronald M., and Butler.

Cadillac Products, Inc., assignee: *See*—
Williams, Michael P.

Cairns, Robert W., Wilmington, Del., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Propellent charge for jet-propelled devices. 2,643,184, June 23.

Calcagno, Ambrose, Portland, Oreg. Refuse handling apparatus. 2,643,014, June 23.

California Research Corporation, assignee: *See*—
Morgan, Clarence R.

Calloway, Otto H., Chicago, Ill. Abrasive wheel dresser. 2,642,856, June 23.

Campbell, Ernest F., Springfield, Va., O. W. Kinselman, Washington, D. C., and A. J. Stanton, Bethesda, Md. Fuse setting apparatus. 2,642,778, June 23.

Cantalupo, Francis J., Chicago, E. P. De Craene, Westchester, E. O. Schmidt, Western Springs, C. W. Yant, Maywood, and R. P. Setka, assignors to Crane Co., Chicago, Ill. Flow control device. 2,642,896, June 23.

Carey, Eric L., Ottawa, Ontario, Canada. Planing attachment for jointers. 2,642,902, June 23.

Carlin, Arvid F., New Rochelle, N. Y. Holder for toilet paper and paper towels. 2,643,069, June 23.

Carlson, Clifford E., Oshkosh, and O. Hatch, Milwaukee, Wis. Combination space and water heating unit. 2,643,323, June 23.

Carlson, Edward C., assignor to H. S. Sines, Chicago, Ill. Insulator tie. 2,643,283, June 23.

Carr, James W., Jr., L. I. Griffin, Jr., and E. W. S. Nicholson, Baton Rouge, La., assignors to Standard Oil Development Company. Fluidized distillation of oil-shale. 2,643,219, June 23.

Carroll, Fred M., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Record card counting, stacking, and conveying mechanism. 2,642,787, June 23.

Carroll, Thomas E., New York, N. Y. Tuck-making guide. 2,642,828, June 23.

Carter, Franklyn Y., Dearborn, assignor to Detroit Controls Corporation, Detroit, Mich. Insert type thermostatic expansion valve. 2,642,724, June 23.

Carter, Sam F., Jr., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Cupola melting of cast iron. 2,643,185, June 23.

Carter, William H., P. Barr, Birmingham, and A. W. H. Patch, Erdington, Birmingham, England. Appliance for stropping or honing razor blades. 2,642,704, June 23.

Casson, Kenneth H., Winnebago, assignor to Barnes Drill Co., Rockford, Ill. Apparatus for handling magnetic material. 2,642,994, June 23.

Castelli, Charles, Union City, assignor, by mesne assignments, to Colombia Protektosite Co. Inc., Carlstadt, N. J. Receptacle having hinged cover. 2,642,987, June 23.

Celanese Corporation of America, assignee: *See*—
Salvin, Victor S.

Chadsey, Earl E., Jr., Newton, P. J. Clough, Reading, and P. Godley, 2nd, Lexington, assignors to National Research Corporation, Cambridge, Mass. Coating method and apparatus therefor. 2,643,201, June 23.

Chapman Forest Utilization, Inc., assignee: *See*—
Chapman, Ralph.
Tower, Gordon E.

Chapman, Ralph, assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg. Fiberboard forming press with loader and unloader. 2,642,782, June 23.

Chapman, William J., San Antonio, and W. E. Beltz, La Feria, Tex. Tube holder and dispenser with pivotally mounted tube-squeezing member. 2,643,029, June 23.

Chase, Opal W., assignee: *See*—
Sherman, Charles G., and Owens.

Cheney, Charles W., Hockley, Birmingham, England. Key locked slidable bolt fastening for attaché and suitcases and the like. 2,642,734, June 23.

Cherpeski, Robert P.: *See*—
Manley, Theodore M., and Cherpeski.

Chicago Bridge & Iron Company, assignee: *See*—
Moyer, Frederick D.

Chmelar, Vaclav, assignor to Bata, narodni podnik, Zlin, Czechoslovakia. Pressing and like machine. 2,642,973, June 23.

Christie, Cleve F., assignor of ten per cent to D. A. Harrison, Knoxville, Tenn. Combined burglar and fire alarm. 2,643,313, June 23.

Christie, Donald M., Hartland, Ontario, Canada. Rack for tie bags. 2,643,003, June 23

Chu, Lan J., Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Reflector scanning antenna. 2,643,339, June 23.

Churchill, John W., Kenmore, assignor to Mathieson Chemical Corporation, New York, N. Y. Polymerized dichlorostyrenes containing organo-tin anticrazing agents. 2,643,242, June 23.

Cities Service Oil Company, assignee: *See*—
Hughes, William B., and Heinze.

Clark, Carleton L., North Tarrytown, and C. Vicario, New York, N. Y., and C. J. Lyons, Norwalk, Conn., and J. A. Smith, Greenburgh, and W. W. Hickey, assignors to The Rotareaed Corporation, Bronxville, N. Y. Deaerating a suspension of cellulosic fibers. 2,642,950, June 23.

Clark & Courts Investment Company, assignee: *See*—
Kavanaugh, Floyd J.

Clark, Joseph S., Sherwood Forest, Md. Dispenser for collapsible tubes having a slotted roller and a rounded edge cooperating therewith. 2,643,028, June 23.

Clark, Kendall: *See*—
McCormick, Francis H., and Clark.

Clark, Loris D., assignor to The Master Electric Company, Dayton, Ohio. Instantly reversible motor. 2,643,357, June 23.

Clark, Robert H., Solon, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,642,650, June 23.

Clary Multiplier Corporation, assignee: *See*—
Oldenburg, Kenneth F., and Schwend.

Clawson Machine Company, assignee: *See*—
Clawson, Robert R.

Clawson, Robert T., assignor to Clawson Machine Company, Flagtown, N. J. Icebreaker mill with roll and adjustable breaker plate. 2,643,065, June 23.

Cleveland Crane & Engineering Company, The, assignee: *See*—
Anjeskey, Alphonse F.

Cleveland Hobbing Machine Company, The, assignee: *See*—
Staples, Otis E.

Cleveland Instrument Company, assignee: *See*—
Graham, Erwin W., and Mintel.

Cleveland Pneumatic Tool Company, The, assignee: *See*—
Smith, Ira D.

Clifton Conduit Company, Inc., assignee: *See*—
Pearson, William S.

Cline, John L., Portland, Oreg. Gun swivel. 2,642,689, June 23.

Clough, Philip J.: *See*—
Chadsey, Earl E., Jr., Clough, and Godley.

Clover, Grace M., San Jose, Calif. Coat hanger. 2,643,037, June 23.

Cluphf, Harlan E., assignor to Harjeroy Engineered Petroleum Products Sales Co., Denver, Colo. Shock absorbing check valve for hydraulic systems. 2,643,090, June 23.

Clyde Iron Works, Inc., assignee: *See*—
Fox, Robert P.

Coad, Frederic J., deceased, by Mrs. F. J. Coad, administratrix, Des Moines, Iowa, assignor, by mesne assignments, to Swift & Company, Chicago, Ill. Skinning machine. 2,642,619, June 23.

Coad, Mrs. Frederic J., administratrix: *See*—
Coad, Frederic J.

Cobb, Margaret L., Southport, Maine. Bedclothes support. 2,642,589, June 23.

Cohen, Nathaniel L.: *See*—
Goldstein, Ladislas, and Cohen.

Colby, Hedley R.: *See*—
Jones, Hugh F., and Colby.

Collins, Lawrence B., Orange, and C. A. Langstaff, Compton, Calif. Combined cable wiper and splash shield. 2,642,941, June 23.

Columbia Protektosite Co., Inc., assignee: *See*—
Baldanza, Nicholas T.

Columbia Protektosite Co. Inc., assignee: *See*—
Castelli, Charles.

Combustion Control Corporation, assignee: *See*—
Giuffrida, Philip, and Shaw.

Commet, Charles A., Bowdle, S. Dak., and C. F. Merriman, New York, N. Y. Form for concrete constructions. 2,642,645, June 23.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*—
Bernier, Jean.

Connecticut Hard Rubber Company, The, assignee: *See*—
Pfenninger, Arnold, Jr.

Constantine, Arthur R.: *See*—
Oeler, Richard C., and Constantine.

Container Corporation of America, assignee: *See*—
Freeman, Claude C.

Contant, Peter R., and R. H. Sullivan, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich. Electric clock. 2,642,714, June 23.

Cooley, Austin G., assignor to Times Facsimile Corporation, New York, N. Y. Stylus drive for facsimile recorders. 2,643,173, June 23.

Cooley, Austin G., assignor to Times Facsimile Corporation, New York, N. Y. Facsimile stylus carrier and drive system. 2,643,174, June 23.

Copco Steel and Engineering Company, assignee: *See*—
McElhone, Charles A.
McElhone, Charles A., and Jones.

Corette, Dominick T., Woodside, N. Y. Hair guard. 2,642,880, June 23.

Cornell, William D., Buffalo, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Radiation shield supports in vacuum insulated containers. 2,643,022, June 23.

Cornfeld, Nathan J., New York, N. Y. Hand telephone. 2,643,301, June 23.

Corning Glass Works, assignee: *See*—
Dalton, Robert H.

Coshun, Harry E.: *See*—
Petersen, John S., and Coshun.

Couch, Dwight, E.: *See*—
Brenner, Abner, Couch and Williams.

Courtauids Limited, assignee: *See*—
Entwistle, Donald.

Courtot, Louis B.: *See*—
Hunziker, Fred, and Courtot.

Covely, Frank D.: *See*—
Baker, Richard E., and Covely.

Cox, George C., Charleston, W. Va. Cathodically descaling and electrode therefor. 2,643,222, June 23.

Crabtree, John O., London, England, assignor to R. Hoe & Co., Inc., New York, N. Y. Plate holding mechanism for stereotype printing plates. 2,642,800, June 23.

Craddurk, Henry E., Amesbury, Mass., assignor to Western Electric Company, Incorporated, New York. Loop control for toroidal coil winding machines. 2,643,067, June 23.

Cragar Packaging Co., Inc., assignee: *See*—
Craig, Francis A., and Garvey.

Craig, Emmet A.: *See*—
Williams, Arthur L., and Craig.

Craig, Francis A., Seneca Falls, and J. H. Garvey, assignors to Cragar Packaging Co., Inc., Brooklyn, N. Y. Timer controlled apparatus adapted to feed and measure materials. 2,643,026, June 23.

Crane Co., assignee: *See*—
Cantalupo, Francis J., De Craene, Schmidt, Yant, and Setka.

Cranford, Jesse A., Buffalo, assignor to Western Electric Company, Incorporated, New York, N. Y. Spool dimension indicator. 2,642,666, June 23.

Cranford, Jesse A., Buffalo, assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for detecting discontinuities in wire. 2,643,285, June 23.

Craver, Clyde R., Mobile, Ala. Life preserver and illuminating means therefor. 2,642,591, June 23.

Crelo Manufacturing Company, Inc., assignee: *See*—
Lime, Ermal J., and Hedges.

Croake, William D., Middletown, and B. D. Ellis, Franklin, assignors to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,642,781, June 23.

Crompton & Knowles Loom Works, assignee: *See*—
Blanchard, William A.

Cronheim, Richard B., St. Louis, Mo. Vented cover for cooking vessels. 2,643,024, June 23.

Crossly Window Corp., assignee: *See*—
Somerstein, Fred.

Crouch, Willie W., and J. F. Howe, Bartlesville, Okla., assignors to Phillips Petroleum Company. Stabilization of polysulfone resins with organic sulfides. 2,643,241, June 23.

Crown Machine and Tool Company, Inc., assignee: *See*—
Bohannon, George S.

Crozier, Robert N. and W. K. Wilson, assignors to Shawinigan Resins Corporation, Springfield, Mass. Adhesive and coating composition from synthetic copolymers. 2,643,238, June 23.

Cruzan, Charles G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Magnetostriction seismometer. 2,643,367, June 23.

Culhane, Patrick J., Jr., Cleveland Heights, Ohio. Making shell forgings. 2,642,647, June 23.

Cummings, Clinton L., Natick, Mass. Rotatable change speed device. 2,642,756, June 23.

Cummings, Inc., assignee: *See*—
Cummings, Leslie L.

Cummings, Leslie L., assignor to Cummings, Inc., Houston, Tex. Gas lift valve. 2,642,889, June 23.

Curd, Francis H. S., deceased, (M. R. Curd, executrix, Bramhall), and E. H. P. Young, Blackley, Manchester, England, assignors to Imperial Chemical Industries, Limited. Di-quaternary salts of 4-amino-6-(2'-amino pyrimidyl-4'-amino) quinazoline and preparing same. 2,643,253, June 23.

Curd, Muriel R., executrix: *See*—
Curd, Francis H. S., and Young.

Curtis, Gordon E., Oshkosh, and W. A. Oberbeck, Fond du Lac, Wis. Snowplow. 2,642,680, June 23.

Dalton, Robert H., assignor to Corning Glass Works, Corning, N. Y. Soft glass and composite article. 2,642,633, June 23.

Dalton, Robert H., assignor to Corning Glass Works, Corning, N. Y. Soft glass and composite article. 2,643,020, June 23.

Damrow Brothers Company, assignee: *See*—
Peters, Norman J.

Danel, Pierre F., assignor to Etablissements Neyrpic, Grenoble, France. Apparatus for regulating the discharge of liquids through siphons. 2,642,888, June 23.

Danhier, François G., Anderlecht, assignor to La Soudure Electrique Autogène Societe Anonyme, Brussels, Belgium. Weldment and making high tensile steel weldments by electric arc welding. 2,642,965, June 23.

Dannenberg, Hans, Berkeley, assignor to Shell Development Company, Emeryville, Calif. Curing glycidyl polyethers of dihydric phenols with sulfonic acids. 2,643,243, June 23.

Davies, Joseph R., Chicago, Ill. Bias sisal buff 2,642,706, June 23.

Davis, Eugene L., Jr. Beach, and M. E. Kalen, Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Cake inserter. 2,642,655, June 23.

Davis, John M., Chamblee, Ga. Centrifugal classifier. 2,642,991, June 23.

Davis, Raymond C., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Making a welded T-joint. 2,642,652, June 23.

Dayton Rubber Company, The, assignee: *See*—
Freelander, Abraham L.

Deardorff, Clinton E., San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Compound master cylinder unit for hydraulic systems. 2,642,720, June 23.

De Boisblanc, Deslonde R., and R. S. Marsden, Jr., Bartlesville, Okla., assignors to Phillips Petroleum Company. Apparatus for producing a power function of an input voltage. 2,643,348, June 23.

De Contl, Maurice P., New Britain, Conn. Rotatable antenna for televisions. 2,642,754, June 23.

De Craene, Edmond P.: *See*—
Cantalupo, Francis J., De Craene, Schmidt, Yant and Setka.

De Jarnett, Frank D., Long Beach, assignor of one-half to P. A. Medearis, Torrance, Calif. Well pipe handling equipment. 2,643,005, June 23.

De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Heating plant. 2,642,850, June 23.

Den Beste, Marion J., St. Paul, Minn., assignor to Rayette, Inc. Hair color-rinse concentrate. 2,643,211, June 23.

Denison Engineering Company, The, assignee: *See*—
Born, Ellis H., and Bonnette.

Denison Engineering Company, The, assignee: *See*—
Renick, Wendell E.

Depweg, Leonard S., Hamilton, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Power drive unit for remotely controlled television receivers. 2,642,757, June 23.

Dermond, Lawrence C., and E. A. Kehoe, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich. Starter control system. 2,643,347, June 23.

De Shazor, James C., Jr., Portland, Oreg. Closure for containers. 2,642,911, June 23.

De Stadelhofen, Jean M., Berne, J. Müller-Strobel, J. Patry, and R. Strub, assignors to Albiswerk Zurich A. G., Zurich, Switzerland. Telephone subscriber set with side-tone reduction for central battery systems. 2,643,300, June 23.

Detroit Controls Corporation, assignee: *See*—
Carter, Franklyn Y.

De Vau, Louis P., Cleveland Heights, and A. F. Baltus, assignors to Republic Steel Corporation, Cleveland, Ohio. Universal contour generator. 2,642,660, June 23.

Development Research, Inc., assignee: *See*—
Soffer, Jack W.

Dewey, Gordon C., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Traveling wave tube. 2,643,335, June 23.

Dexter Folder Company, assignee: *See*—
Williams, Leo C.

D'Heilly, Marcelle, Paris, France, assignor to Societe Anonyme de l'Ecluse, Tangiers, North West Africa. Card file box. 2,642,876, June 23.

Diamond, Sylvan, Detroit, Mich. Armrest for automobiles. 2,642,926, June 23.

Diemer, Gesinus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. High-frequency electron discharge tube system. 2,643,332, June 23.

Dodge, Howard M., and C. Neff, Wabash, Ind., assignors to The General Tire and Rubber Company, Akron, Ohio. Flailing type beater means for threshing apparatus. 2,642,877, June 23.

Donohue, Anthony J., Merion, Pa. Coil for tankless water heaters. 2,642,849, June 23.

Dorel, Leroy, Hamilton, Ontario, Canada. Gauge block and holder. 2,642,668, June 23.

Doss, Raymond O., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Curved windshield and wiper. 2,642,615, June 23.

Doughnut Corporation of America, assignee: *See*—
Hunter, Herbert T., and Wilson.

Dow, Walter K., Longmeadow, Mass. Gauge. 2,642,670, June 23.

Dowty Equipment Limited, assignee: *See*—
Bowers, Eric H.

Doyle, Frank B., Raymond, Ill., assignor to Guardite Corporation. Two-stage condenser. 2,643,051, June 23.

Doyle, Frank B., Raymond, Ill., assignor to Guardite Corporation. Three-stage condenser. 2,643,052, June 23.

Drackley, Frank, Whiting, Ind., assignor to Inland Steel Company. Method of and apparatus for removing slag from center hole of ingot soaking pits. 2,643,203, June 23.

Dragon, Peter F.: *See*—
Jacobs, Mayhelt, and Dragon.

Dresser Industries, Inc., assignee: *See*—
Bryant, Lorton W.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Hulst, George D.

Dunlop Rubber Company Limited, assignee: *See*—
Trevaskis, Henry.

Du Pont, E. L. de Nemours & Company, assignee: *See*—
Ilostwick, Charles O.
Davis, Eugene L., Jr., and Kalen.
Kinraide, William T. R., and Eberlin.
Stallmann, Otto, and Langerak.

Du Pont, Francis G., Fairfield, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Transient force measuring device. 2,642,741, June 23.

Durkin, William J., Swarthmore, and D. N. Arvidson, Prospect Park, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gas turbine apparatus. 2,643,085, June 23.

Dye, Clara E., Shreveport, La. Wall fountain syringe. 2,642,869, June 23.

Eastern Malleable Iron Company, assignee: *See*—
Spann, Lawrence R., and Tarbos.

Eberlin, Walter C.: *See*—
Kinraide, William T. R., and Eberlin.

Eckhoff, Robert H., assignee: *See*—
Bourne, Gordon F., and Kennedy.

Econometal Corporation, assignee: *See*—
Ahrens, Gerhard W.

Edwards, James H., Evanston, Ill. Turbine beater. 2,643,091, June 23.

Efferson, George M., Baton Rouge, La., assignor to Standard Oil Development Company. Reactor having nonplugging valve nozzle. 2,643,183, June 23.

Efurd, Euland A.: *See*—
Efurd, Robert L., Jr., and E. A.

Efurd, Robert L., Jr. and E. A., Shreveport, La. Pole gaining machine. 2,642,903, June 23.

Electric Eye Equipment Company, assignee: *See*—
Born, Friable, Stewart E., Smiley, and Frommer.

Electric Storage Battery Company, The, assignee: *See*—
Bradley, James C.

Ellasen, Ernst A. B., and K. H. F. Jensen, London, England. Telegraphic code translator. 2,643,292, June 23.

Ellis, Billie D.: *See*—
Croake, William D., and Ellis.

Elmendorf, Arthur R., Woodbridge, assignor to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn. Electric light fixture shade and chassis construction. 2,643,328, June 23.

Eloranta, Valto K., Boston, Mass., assignor to the United States of America as represented by the Secretary of the Army. Helmet for protection against low-temperatures. 2,642,574, June 23.

Elsberg, John, New York, N. Y. Plier vise. 2,642,766, June 23.

Elswick, William R.: *See*—
Plesset, Ernst H., Elswick, and Palmer.

Elwert, Otto, and A. Schnürle, deceased, Stuttgart, Germany; said Elwert assignor to said Schnürle; G. Schnürle, sole heir of said A. Schnürle. Two-stroke cycle engine with supercharging injection pump. 2,642,854, June 23.

Emery, Raymond W.: *See*—
Schaefer, Frederick R., and Emery.

Embart Manufacturing Company, assignee: *See*—
Giffen, James L.

Englander Company, Inc., The, assignee: *See*—
Pillero, James.

Entwistle, Donald, Coventry, assignor to Courtauids Limited, London, England. Bonding of textile yarns to rubber. 2,643,207, June 23.

Erickson, Henry, Calumet City, Ill., assignor to Sinclair Refining Company, New York, N. Y. Preparation of hydrogel beads for drying. 2,643,231, June 23.

Erik, Karl, Sheffield, assignor to G. G. Greene Manufacturing Corporation, Warren, Pa. Broom head and means for removably attaching it to a handle. 2,642,610, June 23.

Ernst, Melvin H., Birmingham, Mich. Screw-actuated micrometer gauge. 2,642,699, June 23.

Etablissements Neyrpic, assignee: *See*—
Danel, Pierre F.

Evans, Sidley O., Beaver Falls, Pa., assignor, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J. Rotary swager with axially progressive die action. 2,642,702, June 23.

Exline, James A., Jr., Miamisburg, Ohio. Forming die. 2,642,916, June 23.

Exner, John D.: *See*—
Morris, Charles A., and Exner.

Fafnir Bearing Company, The, assignee: *See*—
Potter, Howell L.

Fairbanks, Morse & Co., assignee: *See*—
Brauer, Otto H.

Fairstein, Edward, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Voltage supply regulator. 2,643,360, June 23.

Falkenthal, Erwin E., Berlin-Dahlem, Germany. Photovoltaic cell. 2,643,277, June 23.

Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, assignee: *See*—
Pontius, Oswald H.

Farnsworth Research Corporation, assignee: *See*—
Habegger, Harvey C.
Faubion, Howard H., Tampa, Fla. Hacksaw assembly. 2,642,906, June 23.
Fauser, Ernest E., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Synthesizing 4,4'-biphenyl diisocyanate. 2,643,264, June 23.
Federal Machine & Welder Company, assignee: *See*—
Williams, Arthur L., and Craig.
Federal Mogul Corporation, assignee: *See*—
Jones, Hugh F., and Colby.
Federal Telecommunication Laboratories, Inc., assignee: *See*—
Goldstein, Ladislas, and Cohen.
Federal Telephone and Radio Corporation, assignee: *See*—
Frankel, Sidney.
Silver, Martin.
Feiertag, Karl M.: *See*—
Stephenson, Hugh M., and Feiertag.
Feiertag, Karl M., Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine. 2,643,351, June 23.
Fellows, Leslie R.: *See*—
Thomas, Albert, and Fellows.
Felsa A. G., assignee: *See*—
Meyer, Friedrich.
Fencil, Louise K., Brookfield, assignor to Armour and Company, Chicago, Ill. Liquid glue. 2,643,194, June 23.
Ferrari, Amerigo J., Stapleton, N. Y. Massaging attachment for toothbrushes. 2,642,604, June 23.
Field, Walter P., Brockton, Mass. Last. 2,642,597, June 23.
Fields, Elta E., Marion, Ohio. Livestock feeder. 2,642,838, June 23.
Findlay, Robert A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Device and process for converting hydrocarbons. 2,643,216, June 23.
Fink, Mearl M., Toledo, Ohio. Uniformly collapsible tube. 2,643,027, June 23.
Fish, Richard H.: *See*—
Wright, David P., and Fish.
Fishburne, Edward W., Chicago, Ill. Tethered helicopter top. 2,642,698, June 23.
Fisher, Charles H., Abington, and W. C. Mast, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Synthetic rubberlike materials from an alkyl acrylate and an allphatic diene hydrocarbon. 2,643,247, June 23.
Fletcher, Clarence D., Fort Worth, assignor to Merla Tool Corporation, Dallas, Tex. Well flow apparatus and system. 2,642,811, June 23.
Flinn, George E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch piston safety valve. 2,642,844, June 23.
Florin, Philip, Incorporated, assignee: *See*—
Berger, Benjamin S.
Flygare, Carl G., and C. C. Alvord, assignors to Norton Company, Worcester, Mass. Grinding wheel-speed control. 2,642,703, June 23.
Ford, Charles J., assignor to Wingfoot Corporation, Akron, Ohio. Package for shipping and storing a conductive rubber heating element and making same. 2,643,206, June 23.
Ford, Frank R., Limited, assignee: *See*—
Ford, Ronald M., and Butler.
Ford, Ronald M., and G. T. Butler, Sparkbrook, Birmingham, England, said Butler assignor to Frank R. Ford Limited, Sparkbrook, Birmingham, England. Means for pressure roller spindle support and adjusting duplicating machines. 2,642,799, June 23.
Forwald, Haakon, Valhalla, Ludvika, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in electric air blast circuit breaker. 2,643,315, June 23.
Foundry Equipment Limited, assignee: *See*—
Beech, Austin S.
Fox, Robert P., assignor to Clyde Iron Works, Inc., Duluth, Minn. Unicontroller system. 2,643,356, June 23.
Franke & Heidecke, Fabrik Photographischer Präzisionsapparate, assignee: *See*—
Scholkemeier, Friedrich-Wilhelm.
Frankel, Sidney, Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Pulse converting system. 2,643,331, June 23.
Frankwich, Alexander C., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical contactor roll for electroplating machines. 2,643,303, June 23.
Fray, Victor H., Auckland, New Zealand. Screw or like nicking machine. 2,642,594, June 23.
Fredrickson, Bert E., Green Bay, Wis. Archery sight. 2,642,661, June 23.
Freedlander, Abraham L., Dayton, Ohio, assignor to The Dayton Rubber Company. V belt. 2,642,751, June 23.
Freedman, Ephraim, assignor of one-half to E. J. Jacob, Brooklyn, N. Y. Heat insulating container. 2,643,021, June 23.
Freeman, Claude C., assignor to Container Corporation of America, Chicago, Ill. Carton for commodities and premium display. 2,642,988, June 23.
Freer, Phelps M., Detroit, Mich. Disk brake construction. 2,642,939, June 23.
Frei, Arthur J., Sr., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing tray. 2,642,726, June 23.
Frei, Arthur J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing pan. 2,642,727, June 23.
Frisble, Stewart E., and W. O. Smiley, Danville, Ill., and J. C. Frommer, Cincinnati, Ohio, assignors to Electric Eye Equipment Company, Danville, Ill. Automatic control system. 2,643,117, June 23.
Frommer, Joseph C.: *See*—
Frisble, Stewart E., Smiley, and Frommer.
Frye, Wilbur F., West Lafayette, Ohio. Duckbill slewing apparatus. 2,642,983, June 23.
Fula, Esther A., Milwaukee, Wis. Overshoe liner. 2,642,678, June 23.
Funk, Rudolph, Ivyland, Pa. Line-spacing copyholder. 2,642,841, June 23.
Funkhouser, Mearick, and P. J. Long, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Packing. 2,643,147, June 23.
Fuqua, Mack C., Baton Rouge, La., assignor to Standard Oil Development Company. Polymer treatment for fiberboards. 2,643,200, June 23.
Gair, Robert, Company, Inc., assignee: *See*—
Gilchrist, John.
Keiser, George W., Jr., Muise, and Miller.
Gaire, Paul E., Midland Park, N. J. Slide rule and cursor with hairline adjusting means. 2,643,059, June 23.
Gant, Virgil A., Oak Park, assignor to Northwestern Research Corporation, Chicago, Ill. Treating hair. 2,643,375, June 23.
Garapolo, Orlando, Chicago, Ill., assignor to Wilson & Co., Inc. Carriage control device for bacon slicing machines. 2,642,910, June 23.
Garde, Aage: *See*—
Almström, Knut, Garde, Hedström, and Brodersen.
Gardiner, Duncan B., assignor to Vickers Incorporated, Detroit, Mich. Dual rotary pump for power transmissions. 2,642,802, June 23.
Garrett Corporation, The, assignee: *See*—
Wood, Homer J.
Garvey, John H.: *See*—
Craig, Francis A., and Garvey.
Gaston, Donald H., Los Angeles, Calif., assignor to the United States of America as represented by the Secretary of the Army. Trunk latch type fastener. 2,643,148, June 23.
Gates Manufacturing Corporation, assignee: *See*—
Lyon, Omega K.
Geel, John J., assignor to F. E. Shreve, Charlotte, N. C. Electric switch actuator. 2,643,307, June 23.
General American Transportation Corporation, assignee: *See*—
Talmey, Paul.
General Building Units, Inc., assignee: *See*—
Roush, Alan D., Stolz, and Yeck.
General Electric Company, assignee: *See*—
Feiertag, Karl M.
Merrill, Frank W.
Stephenson, Hugh M., and Feiertag.
Wellman, Albert.
General Motors Corporation, assignee: *See*—
Bennett, Bailey, and McFadden.
Brama, Stewart L.
Brittain, Richard J., Jr.
Burton, Robert B.
Contant, Peter R., and Sullivan.
Davis, Raymond C.
Dermond, Lawrence C., and Kehoe.
Doss, Raymond O.
Frei, Arthur J.
Frei, Arthur J., Sr.
Funkhouser, Mearick, and Long.
Geyer, Howard M., and Bullock.
Lautzenhiser, Argyle G.
Lincoln, Clovis W., Zeigler, Verbrugge, and Sloan.
Marvin, John T.
McCormick, Francis H., and Clark.
Rady, William J.
Vosler, Edward J.
General Sheet Metal Works, assignee: *See*—
Brackett, Donald L.
General Spring Corporation, assignee: *See*—
Wood, Joseph K.
General Tire and Rubber Company, The, assignee: *See*—
Dodge, Howard M., and Neff.
Gentry, Carlyle W., Bluefield, W. Va. Making sandwiches. 2,642,822, June 23.
Gerber Products Company, assignee: *See*—
Burnett, Edward N.
Geyer, Howard M., and N. J. Bullock, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Actuator. 2,642,752, June 23.
Gibb, Robert T., Chicago, Ill. Bathtub cover. 2,642,580, June 23.
Giffen, James L., Hudson, N. Y., assignor, by mesne assignments, to Emhart Manufacturing Company. Stock feeding mechanism. 2,643,115, June 23.
Gilchrist, John, London, Ontario, Canada, assignor, by mesne assignments, to Robert Gair Company, Inc., New York, N. Y. Apparatus for forming and assembling egg cartons. 2,642,786, June 23.

Giles, Arthur C., Birkenhead, England. Clamping ring closure. 2,643,150, June 23.
Gill, Donald W., Cincinnati, assignor to The Frank F. Taylor Company, Norwood, Ohio. Collapsible vehicle for children. 2,642,924, June 23.
Gioffrida, Philip, Lawrence, and B. E. Shaw, East Boxford, assignors to Combustion Control Corporation, Cambridge, Mass. Thermal switch. 2,643,311, June 23.
Glassow, Franklyn A., assignor to Barber-Colman Company, Rockford, Ill. Resistance unit. 2,643,316, June 23.
Gleason, Daniel H., Mountain Lakes, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Acceleration switch delayed arming fuse. 2,642,801, June 23.
Glidden Company, The, assignee: *See*—
Allan, Benjamin W., and Rummery.
Godley, Philip, 2nd: *See*—
Chadsey, Earl E., Jr., Clough, and Godley.
Goett, Edward J., New York, E. E. MacDonough, Jr., Brooklyn, and C. J. Salivar, Malverne, assignors to Chas. Pfizer & Co., Inc., New York, N. Y. Vitamin A acetate gelatin beadlets. 2,643,209, June 23.
Goldberg, Bertrand, assignor to Pressed Steel Car Company, Inc., Chicago, Ill. Wood cellular laminated railway car. 2,642,817, June 23.
Goldberg, David N., Wheeling, W. Va. Drill press attachment. 2,642,760, June 23.
Goldberg, David N., Wheeling, W. Va. Drill press attachment. 2,642,761, June 23.
Goldstaub, Heins H., Sharesbrook, England. Electric heating device. 2,643,324, June 23.
Goldstein, Ladislas, Weehawken, and N. L. Cohen, Teaneck, N. J., assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y. Gas discharge transmission arrangement. 2,643,297, June 23.
Gomez-Diez, Jose M., Mallano (Santander), Spain, assignor to International Standard Electric Corporation, New York, N. Y. Testing electric cable sheaths. 2,642,739, June 23.
Goodman Manufacturing Company, assignee: *See*—
Andershock, Chester E.
Hagenbook, Loy D.
Lindgren, Frank A.
Soucek, Dominick.
Goodner, Monroe H., Glendale, Calif., assignor to Stephenson Corporation, Red Bank, N. J. Two-stage gas pressure regulator. 2,642,701, June 23.
Goodrich, B. F., Company, The, assignee: *See*—
Hasselquist, Victor H.
Wilt, Homer E.
Goodrich, Theodore W., San Francisco, Calif. Beading roller for cartons. 2,642,783, June 23.
Goodyear Aircraft Corporation, assignee: *See*—
Bateman, Ralph C., and Schnitzer.
Gordon, Harry L., Sunland, Calif. Body treating apparatus. 2,642,863, June 23.
Gould, Frederick, Angola, Ind. Preserved crystalis genus, crane fly larvae, and method. 2,643,189, June 23.
Graham, Erwin W., Parma Heights, and W. O. Mintel, Shaker Heights, assignors to Cleveland Instrument Company, Cleveland, Ohio. Internal gauge. 2,642,671, June 23.
Grand Rapids Store Equipment Company, assignee: *See*—
Vanderveld, Anthony, and Logie.
Gray, Bowman W., Odessa, Tex. Pipe handling apparatus. 2,643,007, June 23.
Green, Carl D., Orchards, Wash. Duck call. 2,642,699, June 23.
Greenburg, Herman E., Portland, and O. H. Olson, Garden Home, Oreg. Chase and form cooler. 2,642,725, June 23.
Greene, Albert D., Alpha, Ohio. Electronic equipment cooling means. 2,643,282, June 23.
Greene, G. G., Manufacturing Corporation, assignee: *See*—
Erik, Karl.
Greene, Norman M., Valley Stream, N. Y. Manually operated solder feeder for electric soldering irons. 2,643,321, June 23.
Gregg, Kenneth J., and R. Schulze, Buffalo, N. Y. Record player and changer. 2,643,127, June 23.
Gregoire, Jean A., Paris, France. Suspension of vehicles. 2,643,110, June 23.
Griffin, Lindsay L., Jr.: *See*—
Carr, James W., Jr., Griffin, and Nicholson.
Grimm, Carl W., Chicago, Ill., assignor to Henry Pratt Company. Preheater and conditioner unit. 2,642,676, June 23.
Grosse, Aristid V., Haverford, assignor of one-half to J. C. Morrell, Merion, Pa. Welding or cutting metal and other materials by chlorine fluoride torch. 2,642,656, June 23.
Grosvenor, Benjamin, Pomfret, Conn., assignor to American Optical Company, Southbridge, Mass. Spectacle case. 2,642,986, June 23.
Guardite Corporation, assignee: *See*—
Doyle, Frank B.
Guist, Gustav, Vienna, Austria. Device for detecting and determining refraction anomalies of the human eyes. 2,642,771, June 23.
Gunn, Lydia H., San Rafael, Calif. Combination bed slat and drawer hanger. 2,642,588, June 23.
Gunther, Charles A., Lisbon, and C. R. Vittetoe, Mount Vernon, Iowa. Gas fueled watering trough heater and draft shield. 2,642,934, June 23.
Habegger, Harvey C., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Record changing device. 2,643,129, June 23.
Hablan, George, Manhasset, N. Y. Airplane cleaning and polishing machine. 2,642,599, June 23.
Hacking, Paul, assignee: *See*—
Shadrick, Richard H.
Hacking, Robert, assignee: *See*—
Shadrick, Richard H.
Hageman, Frank E., Chico, Calif. Roasting and salting nuts. 2,643,190, June 23.
Hagenbook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Overload released fluid clutch. 2,642,971, June 23.
Hägerström, Olof K.-G. A., Stockholm, Sweden. Arrangement in bookkeeping machines. 2,643,054, June 23.
Hall, Harlow H., Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Production of vitamin B_{12} by streptomyces olivaceus. 2,643,213, June 23.
Hall, Harry G.: *See*—
Harrison, Robert D., and Hall.
Halliden, Karl W., Thomaston, Conn. Cutting device of the miss-cut type. 2,642,937, June 23.
Halliden, Karl W., Thomaston, Conn. Rotary miss-cut shears. 2,642,938, June 23.
Hallman, Ladlow B., Jr., Dayton, Ohio. Computer for converting electrical code into shaft rotation. 2,643,355, June 23.
Hals, Lyle J.: *See*—
Pearlson, Wilbur H., and Hals.
Hamilton, James O., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Run-out detector. 2,643,306, June 23.
Hamilton, Jean W., Montclair, assignor to Airtron, Inc., Linden, N. J. Quickly operable conduit clamp. 2,643,139, June 23.
Hammerstrom, Henry H.: *See*—
Woodruff, Leo B., Alcorn, and Hammerstrom.
Handley, John, Purley, England, assignor to The Union Totalisator Company Limited Glasgow, Scotland. Monogrammic indicator. 2,642,685, June 23.
Hansen, Betsy R., executrix: *See*—
Hansen, William W.
Hansen, Harding H., Linn Grove, Iowa. Overload cable release. 2,643,134, June 23.
Hansen, Theodore A., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. High-speed telegraph transmitter. 2,643,290, June 23.
Hansen, William W., deceased, Stanford University, Calif., by B. R. Hansen, executrix, Stanford University, Calif.; O. D. Ross, executrix of said W. W. Hansen, deceased, assignor to The Sperry Corporation. High-frequency energy dividing apparatus. 2,643,296, June 23.
Hardman, H. V., Company, Inc., assignee: *See*—
Hardman, Kenneth V., and Lang.
Hardman, Kenneth V., Upper Montclair, and A. J. Lang, Cedar Grove, N. J., assignors to H. V. Hardman Company, Inc. Bristle setting. 2,643,157, June 23.
Hare, Terence G., assignor to Miller Manufacturing Co., Detroit, Mich. Luggage carrier for automobile tops. 2,643,040, June 23.
Harleroy Engineered Petroleum Products Sales Co., assignee: *See*—
Cluphf, Harlan E.
Harris, Herbert, Jr., Cedarhurst, N. Y., assignor to The Sperry Corporation. Potentiometer winder. 2,643,068, June 23.
Harris, James E., Smyrna, Tenn. Finger printing device. 2,642,687, June 23.
Harrison, Dorie A., assignee: *See*—
Christie, Cleve F.
Harrison, Robert D., Orinda, and H. G. Hall, Martinez, assignors to Tide Water Associated Oil Company, San Francisco, Calif. Mercury sealed valve. 2,642,891, June 23.
Harshman, Virgil R., South Bend, Ind. Illuminated floating fishing bobber. 2,642,691, June 23.
Hartford National Bank and Trust Company, trustee, assignee: *See*—
Diemer, Gesinus.
Jonker, Gerard H., and Schilperoord.
Van der Willigen, Paul C.
Hartmann, Albert E., New York, N. Y. Combined shaving brush and soap holder. 2,642,608, June 23.
Hartwig, Karl T., Glen Ellyn, assignor to Universal Oil Products Company, Chicago, Ill. Reforming hydrocarbons in the presence of a platinum- or palladium catalyst. 2,643,214, June 23.
Hase, Rudolf, Gehrden, near Hannover, Germany. Optical pyrometer. 2,642,772, June 23.
Haskell, Margaret B., Buffalo, N. Y. Doll with dress ensemble. 2,642,697, June 23.
Hasselquist, Victor H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Wall structure. 2,642,883, June 23.
Hasselquist, Victor H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for controlling a web of sheet material. 2,643,116, June 23.
Hastings, Sam H.: *See*—
Watson, Albert T., and Hastings.

Hatch, Gordon: *See*—
Carlson, Clifford E., and Hatch.
Hayden, Ernest A., Callahan, Calif. Clipper and mower attachment for chain saws. 2,642,901, June 23.
Hearne, George W.: *See*—
Lacomble, Antoine E., Hearne, and La France.
Hedgea, Charles S.: *See*—
Lime, Ermal J., and Hedges.
Hedström, Sven E.: *See*—
Almström, Knut, Garde, Hedström, and Brodersen.
Heidenwolf, Hermann, Neumarkt, Steiermark, assignor to Lapp - Finze Eisenwarenfabriken - Aktiengesellschaft, Kalsdorf (Graz), Austria. Apparatus for measuring temperature. 2,642,742, June 23.
Heidrich, Stephen L., Brooklyn, N. Y. Acoustic device with an inverted horn having a throat vented to the atmosphere. 2,642,947, June 23.
Hellbronner, Harry S., Perry, N. Y. Garment. 2,642,570, June 23.
Heinze, Bennie: *See*—
Hughes, William B., and Heinze.
Heinzelmann, Richard V., assignor to The Upjohn Company, Kalamazoo, Mich. Purification of ortho-methoxyphenylacetone. 2,643,268, June 23.
Heisey, Ezra D., Washington, Pa. Attachment for hay balers for distributing chemicals through hay during baling. 2,642,793, June 23.
Henderson, Glenn A., and W. H. Winborne, Los Angeles, Calif. Cane. 2,642,884, June 23.
Hermann, Franz, Rosenheim, assignor to Klepper-Werke, Rosenheim, Bavaria, Germany. Boat. 2,642,590, June 23.
Hermanny, Heinrich, Valley Stream, N. Y. Instrument pointer actuating mechanism and adjustment. 2,642,743, June 23.
Hersch, Paul, Birmingham, England. Forming a layer of metallic copper on copper oxide. 2,643,199, June 23.
Hertenstein, Edgar W., Jr., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for handling fluids. 2,642,675, June 23.
Herzog, Carl, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Article feeding apparatus. 2,642,978, June 23.
Hess, Arthur, Kriens, Canton Lucerne, Switzerland. Wrapping apparatus for articles of circular cross section. 2,642,708, June 23.
Hettinger, Charles, Englewood, N. J. Method involved in the apparatus for mechanically applying seeds to dough forms. 2,642,821, June 23.
Hettinger, Charles, West Englewood, N. J. Machine for applying seeds to dough forms. 2,642,833, June 23.
Heuser, Leon J., Robbinsville, N. J., assignor to Mathieson Chemical Corporation, New York, N. Y. Obtaining crystalline salts of streptomycins. 2,643,249, June 23.
Hewat, Thomas, San Francisco, Calif. Work holding clamp with an angularly adjustable pressure element. 2,642,905, June 23.
Heywood, R. R., Co., Inc., assignee: *See*—
Morrison, Nathan H.
Hickey, William W.: *See*—
Clark, Carleton L., Vicario, Lyons, Smith, and Hickey.
Higgins, Louis W.: *See*—
Robertson, William, and Higgins.
Hill, Albert S., and R. H. Hill, Caddo, Okla. Stock restraining gate. 2,642,840, June 23.
Hill, Gilbert F.: *See*—
Wittkuhns, Bruno A., Nutting, and Hill.
Hill, Richard H.: *See*—
Hill, Albert S. and R. H.
Hinkle, Hall, Pickens, S. C. Display support for containers. 2,643,082, June 23.
Hinkle, Samuel E., Houston, Tex. Mounting for aircraft engine cowls. 2,642,853, June 23.
Hodgins, William, Ottawa, Ontario, Canada. Heating apparatus. 2,643,060, June 23.
Hoe, R., & Co., Inc., assignee: *See*—
Crabtree, John O.
Hoge, Albert W., Ridley Park, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Treatment and use of porous contact masses. 2,643,215, June 23.
Holden, Marguerite H., assignee: *See*—
Holden, Orloff W.
Holden, Orloff W., assignor to O. W. and M. H. Holden, doing business as Knickerbocker Rubber Company, Chicago, Ill. Aerating device. 2,643,104, June 23.
Hooker, William P., assignee: *See*—
O'Reilly, Joseph A.
Hornack, John, Parma, Ohio. Portable tool. 2,643,088, June 23.
Hott, Ion V. K., and W. L. Siminton, assignors to The Joyce-Cridland Company, Dayton, Ohio. Loading dock. 2,643,010, June 23.
Houdry Process Corporation, assignee: *See*—
Hoge, Albert W.
Shirk, Robert M.
Howe, John F.: *See*—
Crouch, Willie W., and Howe.
Howe, John F., and J. E. Wicklatz, Bartlesville, Okla., assignors to Phillips Petroleum Company. Imides as stabilizers for polysulfone resins. 2,643,237, June 23.
Hruska, Joseph J., Milwaukee, Wis. Adjustable handle mounting for window-cleaning devices. 2,642,609, June 23.
Hryniszak, Waldemar: *See*—
Bowden, Andrew T., Hryniszak, and Kolb.
Huber, J. M., Corporation, assignee: *See*—
Williams, Ira.
Huck Glove Company, Limited, The, assignee: *See*—
Huck, John V.
Huck, John V., assignor to The Huck Glove Company, Limited, Kitchener, Ontario, Canada. Work glove, mitt, one-finger or the like. 2,642,573, June 23.
Huff, George E., Miami, Okla. Self-cleaning rake. 2,642,712, June 23.
Hughes, William B., Bartlesville, and B. Heinze, Pawhuska, assignors to Cities Service Oil Company, Bartlesville, Okla. Inhibiting corrosion of metals. 2,643,227, June 23.
Hughey, George B.: *See*—
Kutosh, Stephen, Hughey, and Malcolmson.
Hulst, George D., Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Television tuning device. 2,642,746, June 23.
Hume, Tirey L.: *See*—
Meighan, William A., and Hume.
Humphreys, Joseph A., Cohasset, Mass. Multiple utility clamp and bracket. 2,643,046, June 23.
Hunter, Herbert T., Baltimore, Md., and B. W. Wilson, Manhasset, assignors to Doughnut Corporation of America, New York, N. Y. Dough conditioning apparatus. 2,642,860, June 23.
Huntington, Richard L., and L. S. Reid, Norman, Okla., assignors to Aluminum Company of America, Pittsburgh, Pa. Gas separation by adsorption. 2,642,955, June 23.
Hunziker, Fred, University Heights, and L. B. Courtot, assignors to The Weatherhead Company, Cleveland, Ohio. Indexing chuck. 2,643,132, June 23.
Hurel, Maurice L., Deauville, France. Improvement in aircraft of high aspect ratio. 2,643,076, June 23.
Hurvitz, Hyman, Washington, D. C. Spectrum analyzer for compressional waves. 2,643,286, June 23.
Hutton, John J., Ashland, Ky. Metal awning construction. 2,642,635, June 23.
Hyster Company, assignee: *See*—
Wahl, Harold F.
I-T-E Circuit Breaker Company, assignee: *See*—
Ridgley, Cornelius J.
Illinois Tool Works, assignee: *See*—
Nielsen, Moritz H.
Poupitch, Ougljesa J.
Imperial Chemical Industries Limited, assignee: *See*—
Curd, Francis H. S., and Young.
Rose, Francis L., and Swain.
Ingersoll-Rand Company, assignee: *See*—
Le Valley, John.
Inland Steel Company, assignee: *See*—
Drackley, Frank.
International Business Machines Corporation, assignee: *See*—
Carroll, Fred M.
International Standard Electric Corporation, assignee: *See*—
Aigrain, Pierre R.
Bradburd, Ervin M.
Dewey, Gordon C.
Gomez-Diez, Jose M.
Nail, James J.
Parker, Louis W.
Interwoven Stocking Company, assignee: *See*—
Thurston, Paul L.
Isaacson, F. T., assignee: *See*—
Jackson, Rodney.
Isaacson, Paul J., assignee: *See*—
Jackson, Rodney.
Jackson, Donald R. P., Deptford, London, assignor to Molins Machine Company Limited, London, England. Suction blank feed for printing, wrapping and other machines. 2,643,120, June 23.
Jackson, Henry M., Salt Lake City, Utah. Surgical retractor. 2,642,862, June 23.
Jackson, Rodney, Seattle, Wash., assignor to P. J. and F. T. Isaacson. Load supporting and clamping arms for hand trucks with tiltable carrier frames. 2,643,013, June 23.
Jacob, Ezekiel J., assignee: *See*—
Freedman, Ephraim.
Jacobs, Maybelle, San Francisco, and P. F. Dragon; said Dragon assignor to Pacific Pipe Company, Oakland, Calif. Pivoted detent pipe coupling. 2,643,138, June 23.
Jacobsen, Andrew B., Somerville, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Data transmission system. 2,643,333, June 23.
Janowski, Edward, Pawtucket, R. I. Jig. 2,642,918, June 23.
Jeffrey Manufacturing Company, The, assignee: *See*—
Mercier, Stanley M.
Jellison, Ernest E., Twin Falls, Idaho. Motor vehicle wheel traction chain. 2,642,915, June 23.
Jensen, James L., Cowley, Wyo. Polishing and sanding device. 2,642,705, June 23.
Jensen, Kaj H. F.: *See*—
Eliasen, Ernest A. B., and Jensen.
Jimenez, John: *See*—
Marks, Theodore, and J. and L. M. Jimenez.

Jimenez, Luis M.: *See*—
Marks, Theodore, and J. and L. M. Jimenez.
Johansson, Ernest G., Belmont, assignor to Anchor Manufacturing Company, Boston, Mass. Device for insulating a jack. 2,643,362, June 23.
Johnson, Melvin M., Jr., assignor to Olin Industries, Inc., New Haven, Conn. Magazine-conversion unit for firearms. 2,642,686, June 23.
Johnson, Roy W., Milwaukee, Wis. Fuel control. 2,643,061, June 23.
Johnson, Thomas B., Decatur, Ga., assignor to H. H. Robertson Company, Pittsburgh, Pa. Cutting tool for cutting sheet metal. 2,642,658, June 23.
Johnston, Ida M., executrix: *See*—
Johnston, J. B.
Johnston, J. B., deceased, by I. M. Johnston, executrix, Fort Worth, Tex. Concrete building form. 2,642,646, June 23.
Jones, David D., Weston, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Continuous vulcanizing apparatus. 2,642,622, June 23.
Jones, Hugh F., and H. R. Colby, Greenville, assignors to Federal Mogul Corporation, Detroit, Mich. Electroplating rack. 2,643,225, June 23.
Jones, James A., Fayetteville, Ark. Dust mop cleaner. 2,642,600, June 23.
Jones, Thomas G.: *See*—
McElhone, Charles A., and Jones.
Jones, Vincent C.: *See*—
Broeren, Frank L., Kruger, and Jones.
Jonker, Gerard H., and P. B. A. Schilperoord, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electrical insulator. 2,643,192, June 23.
Josam Manufacturing Company, assignee: *See*—
Brenner, Henry G.
Joyce-Cridland Company, The, assignee: *See*—
Hott, Ion V. K., and Simonton.
Juve, Robert D., Copley, assignor to Wingfoot Corporation, Akron, Ohio. Golf ball cover. 2,643,125, June 23.
Kahn, David, Englewood, and K. Weisser, Cresskill, assignors to David Kahn, Inc., North Bergen, N. J. Fountain pen. 2,642,842, June 23.
Kahn, David, Inc., assignee: *See*—
Kahn, David, and Weisser.
Kahn, Julian S., New York, N. Y. Universal needle threader. 2,643,038, June 23.
Kalen, Maurice E.: *See*—
Davis, Eugene L., Jr., and Kalen.
Kamm, Wunibald I. E., and W. F. Krautter, Dayton, and K. Staiger, Wright-Patterson Air Force Base, Ohio. Heating device. 2,643,107, June 23.
Kant, Edwin S., Melrose, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on shoes. 2,642,596, June 23.
Katz, Alex J.: *See*—
Bank, Albert M., and Katz.
Kavanaugh, Floyd J., Galveston, assignor of fifty per cent to Clark & Courts Investment Company, Houston, Tex. Typewriter front feed attachment. 2,642,975, June 23.
Kearney, James R., Corporation, assignee: *See*—
Bott, Perry J.
Keasbey and Mattison Company, assignee: *See*—
Williams, Paul E.
Keeling, Wilmer B., Meherrin, Va. Instrument for treating prostate glands. 2,642,874, June 23.
Kehoe, Ellsworth A.: *See*—
Dermond, Lawrence C., and Kehoe.
Keiser, George W., Jr., Syracuse, H. D. Muise, East Syracuse, and W. A. Miller, Liverpool, assignors to Robert Gair Company, Inc., New York, N. Y. Shipping device. 2,642,989, June 23.
Kellogg Switchboard and Supply Company, assignee: *See*—
Rose, Morris.
Bellamy, John I.
Kelly, Gerald C., Apponang, R. I. Bomb dropping toy airplane. 2,643,126, June 23.
Kelly, Harry O., Forest Park, Ill. Pipe swab. 2,642,602, June 23.
Kennedy, William E.: *See*—
Bourne, Gordon F., and Kennedy.
Kenwood Corporation, The, assignee: *See*—
Wade, Charles E.
Kenyon, John W., Ashland, Ky., assignor to Armco Steel Corporation, Middletown, Ohio. Device for loading sheets or plates onto conveyers. 2,643,009, June 23.
Keater, Clair E., Clearfield, assignor of fifty per cent to H. O. Woolley, Jr., Harrisburg, Pa. Adjustable holding device for fishhooks, etc. 2,642,767, June 23.
Kiekhaefer, Elmer C., Cedarburg, Wis. Engine mounting and control system. 2,642,829, June 23.
King, James T., Burbank, Calif. Power transmission. 2,643,131, June 23.
King-Seeley Corporation, assignee: *See*—
Slvacek, Emil E.
King, William R., Longview, Tex. Automatic pipe handler. 2,643,006, June 23.
Kingman, George F., Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Bonding device and method. 2,642,919, June 23.
Kinraide, William T. R., Bolton, Mass., and W. C. Eberlin, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vapor heated roll. 2,643,099, June 23.
Kinsella, John, Luton, assignor to D. Napier & Son Limited, London, England. Apparatus for investigating the water content of a gas. 2,642,737, June 23.
Kinzelman, Gerald W.: *See*—
Campbell, Ernest F., Kinzelman, and Stanton.
Klepper-Werke, assignee: *See*—
Hermann, Franz.
Knapp, Joseph F., Naugatuck, assignor to Knapp Machine Corporation, Waterbury, Conn. Illuminating device for graphic layout tables. 2,643,326, June 23.
Knapp Machine Corporation, assignee: *See*—
Knapp, Joseph F.
Knickerbocker Rubber Company, assignee: *See*—
Holden, Orloff W.
Knudsen, Raymond G.: *See*—
Walraven, George M., and Knudsen.
Kolb, Paul: *See*—
Bowden, Andrew T., Hryniszak, and Kolb.
Kolbas, John M.: *See*—
Staab, Frank W., and Kolbas.
Kornei, Otto, Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Multilayer magnetic record member. 2,643,130, June 23.
Kotes, Emanuel, Rockville Centre, N. Y. Pocket structure for nurses' uniforms and other garments. 2,642,576, June 23.
Krautter, Willy F.: *See*—
Kamm, Wunibald I. E., Krautter, and Staiger.
Krohm, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper and arm connection. 2,642,613, June 23.
Krohm, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Air filter. 2,642,843, June 23.
Kropa, Edward L., Old Greenwich, and W. M. Thomas, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing condensation products of pentaerythritol and glyoxal. 2,643,236, June 23.
Kruger, Archie S.: *See*—
Broeren, Frank L., Kruger, and Jones.
Kugel, Harry H., assignor to National Organ Supply Company, Erie, Pa. Film spool and mold for making the same. 2,643,072, June 23.
Kuntz, Irving: *See*—
Ross, Sidney D., and Kuntz.
Kutosh, Stephen, Kenilworth, G. B. Hughey, Orange, N. J., and R. S. Malcolmson, Riverside, Pa., assignors to Merck & Co., Inc., Rahway, N. J. Vitamin B12-active substance elution from montmorillonite absorbent. 2,643,210, June 23.
La Bore, Anthony C., Bridgeport, Conn. Holder for roasting frankfurters, corn on cob, and the like. 2,642,796, June 23.
Lacomble, Antoine E., San Francisco, O. W. Hearne, and D. S. La France, Richmond, assignors to Shell Development Company, San Francisco, Calif. Halo-substitution of organic compounds. 2,643,272, June 23.
La France, Donald S.: *See*—
Lacomble, Antoine E., Hearne, and La France.
L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, assignee: *See*—
Bonnaud, Henri.
Lamb, Wade, Wayne, Mich., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Garbage grinder. 2,643,066, June 23.
Laminated Lumber Products, Inc., assignee: *See*—
Wickel, Victor J.
Landgraf, David C., Simpson, Okla. Pecan cracker. 2,642,908, June 23.
Landgraf, George F., Pittsburgh, assignor to Trion, Inc., McKees Rocks, Pa. Collecting plate assembly for electrostatic precipitators. 2,642,952, June 23.
Lang, Arthur J.: *See*—
Hardman, Kenneth V., and Lang.
Langerak, Exley O.: *See*—
Stallmann, Otto, and Langerak.
Langstaff, Clinton A.: *See*—
Collins, Lawrence B., and Langstaff.
Lapp-Finze Eisenwarenfabriken-Aktiengesellschaft, assignee: *See*—
Heidenwolf, Hermann.
Larkin, Roger A., Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Determining bran in cereal flour. 2,642,745, June 23.
Larrabee, Donald C., Yarmouth, Maine. Clip for sheet material. 2,642,638, June 23.
Laskey, Ellis A., Lawrence, N. Y. Multiple autographic register. 2,643,114, June 23.
La Soudure Electrique Autogène Societe Anonyme, assignee: *See*—
Danhier, François G.
Lautzenhiser, Argyle G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition timer. 2,643,304, June 23.
Lawrance, Richard B., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Triggered push-pull oscillator. 2,643,340, June 23.

Lawrence, William J., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Electric circuit checking equipment. 2,643,370, June 23.
Lee, Vincenzo J., Cleveland, Ohio. Liquid vaporizer. 2,642,637, June 23.
Leland-Gifford Company, assignee: *See*—
Roys, Alden T.
Leland, Wallace T., St. Paul, Minn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Mass spectrometer ion source. 2,643,341, June 23.
Lennon, Robert J., Moline, Ill. Gun mount brake mechanism. 2,642,958, June 23.
Le Valley, John, Painted Post, assignor to Ingersoll-Rand Company, New York, N. Y. Gas receiver-liquid separator unit. 2,642,954, June 23.
Le Van, Ambrose E., Sellersville, Pa., assignor to American Machine and Metals, Inc., New York, N. Y. Air volume regulator. 2,642,747, June 23.
Lever Brothers Company, assignee: *See*—
Savidge, Leslie N., and Thomas.
Lewis, Warren J., and W. H. Utz, assignors to The Ohio Brass Company, Mansfield, Ohio. Hole gauge. 2,642,672, June 23.
Libbey-Owens-Ford Glass Company, assignee: *See*—
Simmons, John K.
Lieberman, Helman G., Evansville, Ind. Silver recovering and collecting device. 2,643,108, June 23.
Liguori, Anthony: *See*—
Shenk, Eugene R., and Liguori.
Lilly, Howard C., Sharon, assignor to Masury-Young Company, Charlestown, Mass. Carpet sweeper with brush cleaning fingers. 2,642,617, June 23.
Lime, Ermal J., and C. S. Hedges, assignors to Crelo Manufacturing Company, Inc., Kansas City, Mo. Liquid heater for hot beverage vending machines. 2,643,322, June 23.
Lincoln, Clovis W., P. B. Zeigler, J. J. Verbrugge, and J. F. Sloan, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Direction signal switch. 2,643,308, June 23.
Linderman, Garrett B., Washington, D. C. Fluid apparatus. 2,642,807, June 23.
Lindgren, Frank A., assignor to Goodman Manufacturing Company, Chicago, Ill. Extensible conveyer with takeup means. 2,642,981, June 23.
Linzell, Leslie, Watford, assignor to Pictorial Machinery Limited, London, England. Photoreproduction camera. 2,643,187, June 23.
Lipowitz, Joseph, Los Angeles, Calif. Flue-gas spray device. 2,643,105, June 23.
Lippmann, Bernard A., New York, N. Y., and J. S. Schwinger, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Microwave Wheatstone bridge. 2,643,295, June 23.
Livingston, Herman H., Bronx, N. Y. Apparatus for the transfusion of blood. 2,642,867, June 23.
Lockheed Aircraft Corporation, assignee: *See*—
Monroe, Benjamin F.
Simon, Eli, Thomas, and Burkart.
Loe, Ira G., Cleveland, assignor to T. L. Marr, Andover, Ohio. Handgrip attachment for bathtubs. 2,642,581, June 23.
Logie, Charles F.: *See*—
Vanderveld, Anthony, and Logie.
Long, Arthur H., assignor to Wm. K. Stamets Company, Pittsburgh, Pa. Measuring and cutoff machine. 2,642,663, June 23.
Long, Loren M.: *See*—
Miller, Charles A., and Long.
Long, Paul J.: *See*—
Funkhouser, Mearick, and Long.
Lottes, Richard M., St. Louis, Mo. Mixing valve construction. 2,642,893, June 23.
Loumlet et Lavigne, Juan, Playa de la Teja, Itabo, Cuba. Distilling method. 2,643,220, June 23.
Louthan, Clissolde L., Yucaipa, Calif. Device for checking the sale of tickets. 2,643,168, June 23.
Lowry, Jefferson R., Fort Worth, Tex. Fertilizer distributor. 2,643,031, June 23.
Luccheal, Adam, Bergenfield, N. J. Animal simulating attachment for bicycles. 2,643,133, June 23.
Lund, Clinton O., assignor to Maun and Lund, Inc., Chicago, Ill. Making cake center frozen confections in twin molds. 2,642,820, June 23.
Lundgren, Chester L., Bonaparte, Iowa. Spare tire mounting for automobiles. 2,643,041, June 23.
Lynch Corporation, assignee: *See*—
Sandberg, Oscar.
Lyon, Floyd A., Elmhurst, N. Y., assignor to The Sperry Corporation. Vector sight. 2,642,662, June 23.
Lyon, Omega K., Atlanta, Ga., assignor, by mesne assignments, to Gates Manufacturing Corporation. Oil recovery stand. 2,643,030, June 23.
Lyons, Cornelius J.: *See*—
Clark, Carleton L., Vicarlo, Lyons, Smith, and Hickey.
M & W Company, Inc., assignee: *See*—
Amo, Ivan J.
Maas, Russell B., Chicago, Ill., assignor to Screw Conveyor Corporation, Hammond, Ind. Packing and end thrust unit for conveyers. 2,643,164, June 23.
MacCallum, Alan M., Plainfield, and C. Russell, Englewood Cliffs, assignors to Bendix Aviation Corporation, Teterboro, N. J. Automatic pilot for mobile craft. 2,643,354, June 23.
Macdonough, Edward E., Jr.: *See*—
Goett, Edward J., Macdonough, and Salivar.
Mack, George W., Waterloo, Iowa. Photographic slide binder. 2,643,017, June 23.
Mackey, Donald, Haddon Heights, N. J., assignor to Radio Corporation of America. Electrical switch contact arrangement. 2,643,361, June 23.
Macklenar, Albert H., Toledo, Ohio. Ventilated insulating spacing shield for flashlight dry cells. 2,643,327, June 23.
Mager, Gustave E., Hamden, Conn., assignor to E. H. White, Baltimore, Md. Striker plate. 2,643,149, June 23.
Malcolmson, Robert S.: *See*—
Kutosh, Stephen, Hughey, and Malcolmson.
Mallinson, Dennis H., Fleet, assignor to Power Jets (Research and Development) Limited, London, England. Closed cycle elastic fluid compressor-turbine plant and control thereof. 2,642,721, June 23.
Malone, Raphael J., Seattle, Wash. Fillable backboard for punching bags. 2,643,124, June 23.
Mancke, Edgar B., Bethlehem, Pa., assignor to Bethlehem Steel Company. Nitric acid pickling. 2,643,204, June 23.
Manley, Theodore M., Xenia, and R. P. Cherpeski, Dayton, Ohio. Modulated pulse remote control. 2,643,369, June 23.
Mann, Julius W., and G. F. Russell, Tacoma, Wash. Heating the interior of plastic preforms. 2,642,627, June 23.
Mansson, Martin S., Long Island City, N. Y. Automatic stop for sewing machines. 2,643,305, June 23.
Marathon Corporation, assignee: *See*—
Broeren, Frank L., Kruger, and Jones.
Marchal, Raymond H.: *See*—
Bertin, Jean H., and Marchal.
Marchese, Mary, New York, N. Y. Garment pad for hosiery garters. 2,642,578, June 23.
Marechal, Georges, Theux, Belgium. Automatic drinking trough. 2,642,839, June 23.
Marks, Theodore, and J. and L. M. Jimenes, Bronx, N. Y., assignors to American Brush Machinery Co., Inc. Brush trimming and bending machine. 2,643,156, June 23.
Marr, Thurman L., assignee: *See*—
Loe, Ira G.
Marsden, Ross S., Jr.: *See*—
De Bisblanc, Deslonde R., and Marsden.
Marsh, Nat H., Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of 2-aminopyridine and 2-aminoquinoline. 2,643,256, June 23.
Martin, Erle, West Hartford, M. C. Beebe, Jr., South Glastonbury, and J. E. Anderson, Portland, assignors to United Aircraft Corporation, East Hartford, Conn. Propeller pitch changing mechanism. 2,642,945, June 23.
Martin, Erle, West Hartford, and C. D. McCarthy, Manchester, assignors to United Aircraft Corporation, East Hartford, Conn. Propeller control mechanism. 2,643,077, June 23.
Marvin, John T., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Mold for foamed latex. 2,642,624, June 23.
Massari Bros. Machine Company, assignee: *See*—
Woerner, William.
Mast, William C.: *See*—
Fisher, Charles H., and Mast.
Master Electric Company, The, assignee: *See*—
Clark, Loris D.
Masury-Young Company, assignee: *See*—
Lilly, Howard C.
Mathieson Chemical Corporation, assignee: *See*—
Churchill, John W.
Heuser, Leon J.
Miller, Warren S.
Matuszak, Alfred H., Jersey City, and C. A. Weisel, Somerville, N. J., assignors to Standard Oil Development Company. Phosphorus-containing lubricating oil additives. 2,643,261, June 23.
Maun and Lund, Inc., assignee: *See*—
Lund, Clinton O.
Maurer, John F., Leonia, N. J. Milk bottle case and bottom frame therefor. 2,643,018, June 23.
Mauro, Anthony, Brooklyn, N. Y. Window construction. 2,642,631, June 23.
Maxim Silencer Company, The, assignee: *See*—
Tyskewicz, John P.
Mayer, Michael, Cleveland, Ohio. Article retaining means for vehicle instrument. 2,643,042, June 23.
McCarthy, Calvin D.: *See*—
Martin, Erle, and McCarthy.
McChesney, James R.: *See*—
Ogden, Laurence A., McChesney, and McDonald.
McCormick, Francis H., and K. Clark, Oakwood, assignors to General Motors Corporation, Dayton, Ohio. Clothes washing machine and agitator therefor. 2,642,733, June 23.
McCreary, Leo R.: *See*—
Mears, Roy A., and McCreary.
McDonald, Lawrence L.: *See*—
Ogden, Laurence A., McChesney, and McDonald.

McElhone, Charles A., Allen Park, assignor to Copco Steel and Engineering Company, Detroit, Mich. Roofing and roof construction. 2,642,824, June 23.
McElhone, Charles A., Allen Park, and T. G. Jones, assignors to Copco Steel and Engineering Company, Detroit, Mich. Foldable and compactable truss and stud support. 2,642,825, June 23.
McFadden, George H.: *See*—
Bennett, Bailey, and McFadden.
McFerran, Frank A., Pittsburgh, Pa. Water heater jacket. 2,642,851, June 23.
McGann, Barbara M., assignee: *See*—
McGann, Frank E., Jr.
McGann, Frank E., Jr., assignor of one-half to B. M. McGann, Troy, N. Y. Sleeping bag for babies. 2,642,865, June 23.
McGowan, George C., New Brighton, Pa. Rotary cutter device for mining machines. 2,643,106, June 23.
McLaren, Ian H., Dearborn, and C. E. Alsterberg, assignors to Bendix Aviation Corporation, Detroit, Mich. System for measuring radioactivity. 2,643,344, June 23.
McPherson, John C., Bergenfield, N. J. Magnetic holding device. 2,642,999, June 23.
Mears, Roy A., and L. R. McCreary, Long Beach, Calif. Templet bending jig. 2,642,765, June 23.
Medearis, Paul A., assignee: *See*—
De Jarnett, Frank D.
Megrail, George G., Phoenixville, assignor to Warner Company, Philadelphia, Pa. Making relatively pure magnesium oxide or hydroxide. 2,643,181, June 23.
Meighan, William A., and T. L. Hume, Portland, Oreg. Flange tensioning and joining device for strap ends. 2,642,639, June 23.
Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer apparatus and supporting mechanism therefor. 2,642,984, June 23.
Merck & Co., Inc., assignee: *See*—
Kutosh, Stephen, Hughey, and Malcolmson.
Merla Tool Corporation, assignee: *See*—
Fletcher, Clarence D.
Robinson, Art I.
Merrill, Frank W., Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine magnetic core member. 2,643,350, June 23.
Merriman, Chester F.: *See*—
Commet, Charles A., and Merriman.
Messmore, George H., New York, N. Y. Smoking character figure. 2,642,096, June 23.
Metal Specialties Manufacturing Co., assignee: *See*—
Semler, Loren H.
Metsner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Strip feeding mechanism. 2,643,135, June 23.
Meyer, Aloys H., Jr., Melrose, Minn. Electrified gate construction. 2,642,683, June 23.
Meyer, Friedrich, assignor to Felsa A. G., Grenchen, Switzerland. Timepiece movement comprising a differential gear. 2,642,716, June 23.
Meyer, Herman E., Elwood, N. J. Preparing a photographic three-dimensional grain screen and for producing a photographic dry plate having a latent three-dimensional screen pattern thereon. 2,643,188, June 23.
Miles, Ernest C., Dallas, Tex. Adjustable weatherstrip for windows. 2,642,636, June 23.
Mill Engineering & Supply Co., assignee: *See*—
Sundbom, Carl S., and Winquist.
Miller, Charles A., Detroit, and L. M. Long, Grosse Pointe Woods, assignors to Parke, Davis & Company, Detroit, Mich. Substituted succinimides. 2,643,257, June 23.
Miller, Charles A., Detroit, and L. M. Long, Grosse Pointe Woods, assignors to Parke, Davis & Company, Detroit, Mich. Substituted succinimides. 2,643,258, June 23.
Miller, Charles A., Detroit, and L. M. Long, Grosse Pointe Woods, assignors to Parke, Davis & Company, Detroit, Mich. Substituted succinimides. 2,643,259, June 23.
Miller Company, The, assignee: *See*—
De Lancey, Ralph W.
Miller Manufacturing Co., assignee: *See*—
Hare, Terence G.
Miller, Sidney E., Suffield, Conn., assignor to American Bosch Corporation, Springfield, Mass. Ignition system and generator therefor. 2,643,274, June 23.
Miller, Warren S., Houston, Tex., assignor to Mathieson Chemical Corporation. Producing sodium nitrate. 2,643,180, June 23.
Miller, William A.: *See*—
Keiser, George W., Jr., Muise, and Miller.
Mills, Glenn E., Albion, Mich. Wire fastener for cords. 2,642,640, June 23.
Mills, Henry L., Minneapolis, Minn. Combined brush and soap holder. 2,642,603, June 23.
Millson, Henry E.: *See*—
Mooradian, Shannon, and Millson.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Pearlson, Wilbor H., and Hals.
Mintel, Walter O.: *See*—
Graham, Erwin W., and Mintel.
Miscione, Robert B., Brooklyn, N. Y. Liquid dispenser. 2,643,033, June 23.
Moeller, Lowell J., Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for measuring the surface resistivity of materials. 2,643,287, June 23.
Molins Machine Company Limited, assignee: *See*—
Jackson, Donald R. P.
Monroe, Benjamin F., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Reversible and berthable seat. 2,642,922, June 23.
Monroe, Mary P., Kansas City, Mo. Composition for treating cloth materials. 2,643,195, June 23.
Monsanto Chemical Company, assignee: *See*—
Taylor, George E., and Russe.
Wilson, Ivan V.
Montague, Harley H., assignor to American Clay Works & Supply Co., Denver, Colo. Method and means for preparing ceramic clays. 2,642,643, June 23.
Mooradian, Shannon, Somerville, and H. E. Millson, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Universal pH indicator. 2,643,230, June 23.
Moore, Harry W., assignee: *See*—
Moore, Kenneth A.
Moore, Kenneth A., assignor to H. W. Moore, Dayton, Ohio. Wire unreeling device. 2,643,075, June 23.
Moore, Robert P., Hampden-Sydney, Va. Erythrocytometer. 2,642,769, June 23.
Morgan, Clarence R., Marblehead, Mass., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Higher secondary-alkyl orthosilicates. 2,643,263, June 23.
Morgen, André L. A., Reims, France. Hydraulically operated device for controlling the position of implements carried by tractors. 2,642,846, June 23.
Morrell, Jacque C., assignee: *See*—
Grosse, Arietid V.
Morren, Henri G. P. J., Forest, Brussels, assignor to Union Chimique Belge, S. A., Brussels, Belgium. Piperazine compounds and making same. 2,643,254, June 23.
Morren, Henri G. P. J., Forest, Brussels, assignor to Union Chimique Belge, S. A., Brussels, Belgium. Preparing piperazine compounds and a new type of compound produced thereby. 2,643,255, June 23.
Morris, Charles A., and J. D. Exner, Wichita Falls, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Dual production zone pump. 2,642,803, June 23.
Morris, Myron J., Yonkers, N. Y., assignor to Tele King Corporation. Mounting of cathode-ray tubes for television reception. 2,643,373, June 23.
Morrison, Louis M., Denver, Colo. Garment hanger support. 2,643,000, June 23.
Morrison, Nathan H., Lowell, Mass., assignor, by mesne assignments, to R. R. Heywood Co., Inc., New York, N. Y. Machine for handling greeting cards or other sheet-like articles. 2,643,119, June 23.
Morse, John F., Hudson, Ohio. End connection for push-pull cables. 2,643,146, June 23.
Mortimer, Frank A., assignee: *See*—
Brown, Newman T.
Mosher, Edward G., Denver, Colo. Line making attachment for typewriters. 2,642,977, June 23.
Motorola, Inc., assignee: *See*—
Budiane, Stanley J.
Moye, James H., Waycross, Ga. Gasoline cap signal. 2,642,831, June 23.
Moyer, Frederick D., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Hose drain for floating roof tanks. 2,643,023, June 23.
Mueller, C. F., Co., assignee: *See*—
Birdsall, James E.
Mueller Co., assignee: *See*—
Mueller, Lucien W., and Tratzik.
Mueller, Lucien W., and F. Tratzik, assignors to Mueller Co., Decatur, Ill. Unseating structure for rotary plug valves. 2,643,089, June 23.
Muise, Herbert D.: *See*—
Keiser, George W., Jr., Muise, and Miller.
Müller-Strobel, Joseph: *See*—
De Stadelhofen, Jean M., Müller-Strobel, Patry, and Strub.
Murray, Christopher A., Nederland, Tex., assignor to Pure Oil Company, Chicago, Ill. Removal of carbonaceous deposits from process equipment. 2,643,205, June 23.
Murray, Joseph J., Jr., Garland, Tex. Electric translating apparatus. 2,643,358, June 23.
Nail, James J., Basking Ridge, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Elliptically polarized antenna. 2,643,337, June 23.
Napier, D., & Son Limited, assignee: *See*—
Kinsella, John.
Naras Research, Inc., assignee: *See*—
Schwartz, Nathan R.
Nash-Kelvinator Corporation, assignee: *See*—
Philipp, Lawrence A.
National Brass Company, assignee: *See*—
Quigley, Herbert.
National Cylinder Gas Company, assignee: *See*—
Bour, Robert C.
National Organ Supply Company, assignee: *See*—
Kugel, Harry H.
National Paper Bottle Co. Inc., assignee: *See*—
Wittkuhns, Bruno A., Nutting, and Hill.
National Research Corporation, assignee: *See*—
Chadsey, Earl E., Jr., Clough, and Godley.
National Rubber Machinery Company, assignee: *See*—
Lamb, Wade.

National Standard Company, assignee: *See*—
Wilkins, Charles H. T.

Nauslar, Benjamin F., San Diego, Calif. Interlocking shockproof electrical plug. 2,643,364, June 23.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Brady, James J.
Chu, Lan J.
Jacobsen, Andrew B.
Lawrance, Richard B.
Lippmann, Bernard A., and Schwinger.

Neely, William H., Cleveland, W. C. Sandor, Solon, and C. E. Smith, Hudson, assignors to The Universal Wire Spring Company, Bedford, Ohio. Rail member for removably mounting sinuously corrugated wire springs. 2,642,932, June 23.

Neff, Clarence: *See*—
Dodge, Howard M., and Neff.

Nelson, Charles H., Zion, Ill. Mailbag catcher. 2,643,101, June 23.

Nepper, Richard C., assignor, by mesne assignments, to Ahrens-Fox, Inc., Cincinnati, Ohio. Fire engine pump governor. 2,642,805, June 23.

Newey, Herbert A.: *See*—
Shokal, Edward C., Newey, and Bradley.

Niccoli, Piero, Firenze, Italy. Ozonizers. 2,643,224, June 23.

Nicholson, Edward W. S.: *See*—
Carr, James W., Jr., Griffin, and Nicholson.

Nickl, Edwin F., Cedar Grove, N. J., assignor to Radio Corporation of America. Apparatus and method for forming and mounting damper bars on grids. 2,642,648, June 23.

Nicolai, Lloyd A., Baton Rouge, La., assignor to Standard Oil Development Company. Fluid-type shale retorting. 2,643,218, June 23.

Nielsen, Moritz H., assignor to Illinois Tool Works, Chicago, Ill. Method and machine for assembling washers with fasteners. 2,642,592, June 23.

Norman Products Company, assignee: *See*—
Reichelderfer, Charles A.

Northwestern Research Corporation, assignee: *See*—
Gant, Virgil A.

Norton Company, assignee: *See*—
Flygare, Carl G., and Alvord.

Norton, Orlo C., Erie, Pa. Dehydrator. 2,642,951, June 23.

Notvest, Robert W., Affton, Mo., assignor to American Brake Shoe Company, New York, N. Y. Apparatus for electrolytic analysis. 2,643,223, June 23.

Nutting, H. George D.: *See*—
Wittkuhns, Bruno A., Nutting, and Hill.

Oberbeck, Walter A.: *See*—
Curtis, Gordon E., and Oberbeck.

Oeler, Richard C., and A. R. Constantine, South Bend, Ind., assignors, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Washing machine centrifugal extractor support and damping mechanism. 2,642,996, June 23.

Ogburn, Harley R., Henderson, Tex. Rock anchor. 2,642,768, June 23.

Ogden, Laurence A., J. R. McChesney, and L. L. McDonald, Tulsa, Okla., assignors to The Pure Oil Company, Chicago, Ill. Apparatus for the selective injection of fluids into geological formations. 2,643,208, June 23.

Ogle, Harold H., Jr., assignee: *See*—
Ogle, John S.

Ogle, John S., assignor of forty-nine per cent to H. H. Ogle, Jr., Klamath Falls, Oreg. Coin material testing device. 2,642,974, June 23.

Ogorzaly, Henry J., Summit, N. J., and B. W. Sewell, Tulsa, Okla., assignors to Standard Oil Development Company. Self-powered rotary drilling apparatus. 2,643,087, June 23.

Ohio Brass Company, The, assignee: *See*—
Lewis, Warren J., and Utz.

Ohio Crankshaft Company, The, assignee: *See*—
Body, Alfred C., and Sabol.

Okulitch, George J., and I. V. Zozulin, Vancouver, British Columbia, Canada. Automatic case filling machine. 2,643,043, June 23.

Oldenburg, Kenneth F., East Los Angeles, and F. N. Schwend, Monterey Park, assignors to Clary Multiplier Corporation, San Gabriel, Calif. Paper tearing mechanism. 2,642,939, June 23.

Olin Industries, Inc., assignee: *See*—
Johnson, Melvin M., Jr.

Olson, Andrew T., Fargo, N. Dak. Cylinder gauge. 2,642,665, June 23.

Olson, Harry F., Princeton, and J. Preston, Metedeconk, N. J., assignors to Radio Corporation of America. Portable radio with a bass-reflex cabinet. 2,642,948, June 23.

Olson, Oscar H.: *See*—
Greenburg, Herman E., and Olson.

O'Reilly, Joseph A., El Cerrito, assignor of one-half to W. P. Hooker, Redwood City, Calif. Interlocked hinged closure. 2,643,047, June 23.

Osborne, James E., Tulelake, Calif. Potato planter. 2,642,909, June 23.

Our Savior's Evangelical Lutheran Church, assignee: *See*—
Sundholm, Edwin P.

Owens, George E.: *See*—
Sherman, Charles G., and Owens.

Ozark-Mahoning Company, assignee: *See*—
White, Wayne E.

Pace, Waldemar E., Detroit, Mich. Apparatus for cutting gears and the like. 2,642,780, June 23.

Pacific Pipe Company, assignee: *See*—
Jacobs, Mayhelt, and Dragon.

Palko, Andrew J., and W. E. Shively, assignors to Wingfoot Corporation, Akron, Ohio. Tire. 2,642,914, June 23.

Palmer, Paul A.: *See*—
Plesset, Ernst H., Elswick, and Palmer.

Panucci, J. J., assignee: *See*—
Shadrick, Richard H.

Parke, Davis & Company, assignee: *See*—
Miller, Charles A., and Long.

Parker, Jack R.: *See*—
Watts, Albert E., Jr., and Parker.

Parker, Joseph A., Los Angeles, Calif. Device for piercing ears. 2,642,872, June 23.

Parker, Louis W., Little Neck, assignor to International Standard Electric Corporation, New York, N. Y. Color kinescope. 2,643,352, June 23.

Parsons, C. A., & Company Limited, assignee: *See*—
Bowden, Andrew T., Haynlszak, and Kolb.

Parsons and Marine Engineering Turbine Research and Development Association, The, assignee: *See*—
Brown, Thomas W. F., and Yates.

Patch, Allan W. B.: *See*—
Carter, William H., and Patch.

Patry, Jean: *See*—
De Stadelhofen, Jean M., Müller-Strobel, Patry, and Strub.

Patton, John W., Philadelphia, Pa., assignor to American Car and Foundry Company, New York, N. Y. Hopper seat cover. 2,642,582, June 23.

Paulette, Leon, Appomattox, Va. Hoist attachment for tractors. 2,643,092, June 23.

Peacock, George W., Jr., assignee: *See*—
Peacock, George W., Sr.

Peacock, George W., Sr., assignor of one-fourth to G. W. Peacock, Jr., one-fourth to T. W. Peacock, and one-half to F. G. Russell, Jacksonville, Fla. Detachable root cutter. 2,642,701, June 23.

Peacock, Thomas W., assignee: *See*—
Peacock, George W., Sr.

Pearce, John H., Seattle, Wash. Log debarker and chipper. 2,642,904, June 23.

Pearl, David R., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Variable minimum flow stop. 2,642,718, June 23.

Pearlson, Wilbur H., White Bear Township, Ramsey County, and L. J. Hals, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Fluorocarbon-azomethines. 2,643,267, June 23.

Pearson, William S., assignor to Clifton Conduit Company, Inc., Baltimore, Md. Galvanizing apparatus. 2,642,834, June 23.

Peck, David B., Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Producing thin polytetrahaloethylene films. 2,642,625, June 23.

Pellegrino, Thomas D., Garden City Park, N. Y. Signal device for motor vehicles. 2,643,309, June 23.

Peper, Henry M., and K. H. Tengatedt, Baltimore, Md. Mortar strip positioning frame. 2,642,736, June 23.

Peretti, Leonard G., Chicago, Ill. Window drapery support. 2,643,001, June 23.

Perry, Barron H., Long Beach, N. Y. Tie pack. 2,643,035, June 23.

Peter, Robert G., assignor to Reed Roller Bit Company, Houston, Tex. Drilling method and apparatus. 2,643,094, June 23.

Peters, Leo, Evanston, Ill. Door service guard. 2,642,629, June 23.

Peters, Norman J., assignor to Damrow Brothers Company, Fond du Lac, Wis. Cheese press. 2,642,797, June 23.

Petersen, John S., and H. E. Coshun, assignors to Simmons Company, Kenosha, Wis. Sofa bed. 2,642,584, June 23.

Pfenninger, Arnold, Jr., Hamden, assignor to The Connecticut Hard Rubber Company, New Haven, Conn. Heating element. 2,643,320, June 23.

Pfizer, Chas., & Co., Inc., assignee: *See*—
Goett, Edward J., Macdonough, and Sallvar.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerator door construction. 2,642,630, June 23.

Philippin, Roger W., Babylon, N. Y. Preparing a material having prolonged scent retaining characteristics and product thereof. 2,643,212, June 23.

Phillips Petroleum Company, assignee: *See*—
Ayers, Arnold L., and Scott.
Crouch, Willie W., and Howe.
Cruzan, Charles G.
De Blablanc, Deslonde R., and Marsden.
Findlay, Robert A.
Howe, John F., and Wicklatz.
Province, John H.

Philpott, La Verne R., Washington, D. C. Calibrating apparatus. 2,643,288, June 23.

Picard, Robert G., and J. H. Reisner, Collingswood, N. J., assignors to Radio Corporation of America. High-speed microtome. 2,642,774, June 23.

Pictorial Machinery Limited, assignee: *See*—
Linzell, Leslie.

Pillero, James, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill. Couch with swingably mounted back rest or pillow support. 2,642,585, June 23.

Pillero, James, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill. Folding back rest for sofa beds. 2,642,586, June 23.

Pioneer Gen-E-Motor Corporation, assignee: *See*—
Boyce, Eugene L., and Burrows.

Pitt, Raymond G., Chicago, Ill. Hanger for supporting elongated objects. 2,643,079, June 23.

Plesset, Ernst H., Sherman Oaks, W. R. Elswick, Santa Monica, and P. A. Palmer, Los Angeles, Calif., said Elswick and said Palmer assignors to said Plesset. Fuel burning air heating device. 2,642,858, June 23.

Pontius, Oswald H., assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany. Surgical ampoule-syringe. 2,642,868, June 23.

Porth, Henry W., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Rolling thin sheet metal. 2,642,764, June 23.

Posey, Elbert H., Asheville, N. C. Dry toilet and sealer. 2,642,570, June 23.

Potter, Howell L., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball bearing. 2,643,165, June 23.

Potts, Louis M., deceased, Evanston, Ill., by M. W. C. Potts, executrix, Evanston, assignor to Teletype Corporation, Chicago, Ill. Telegraph converter system and apparatus. 2,643,291, June 23.

Potts, Martha W. C., executrix: *See*—
Potts, Louis M.

Poupitch, Ouglesa J., assignor to Illinois Tool Works, Chicago, Ill. Method and machine for assembling washers with fasteners. 2,642,593, June 23.

Powell, Jonathan S., Jr., South Pasadena, Calif. Apparatus for measuring the specific gravity of a gas. 2,642,738, June 23.

Power Jets (Research and Development) Limited, assignee: *See*—
Mallinson, Dennis Hainsworth.
Simons, Archie.
Walker, Daniel Norman.

Powers-Samas Accounting Machines Limited, assignee: *See*—
Thomas, Arthur and Rhodes.

Pratt, Henry, Company, assignee: *See*—
Grimm, Carl W.

Prescott, Dolores S., Jacksonville, Fla. Maternity garment. 2,642,575, June 23.

Pressed Steel Car Company, Inc., assignee: *See*—
Goldberg, Bertrand.

Preston, John: *See*—
Olson, Harry F., and Preston.

Prins, Leendert, Bilthoven, Netherlands. Clock. 2,642,713, June 23.

Productive Inventions, Inc., assignee: *See*—
Anderson, John W.
Krohm, Fred A.
Smulski, Theodore J.

Province, John H., Oklahoma City, Okla., assignor to Phillips Petroleum Company. Air actuated control system. 2,643,093, June 23.

Pure Oil Company, assignee: *See*—
Murray, Christopher A.

Pure Oil Company, The, assignee: *See*—
Bond, Donald C., and Savoy.
Brennan, Elmer W.
Ogden, Laurence A., McChesney and McDonald.

Putnam, Eleanor H., administratrix: *See*—
Putnam, John F.

Putnam, John F., deceased, Westhampton, Mass., by E. H. Putnam, administratrix, Westhampton, assignor to American Bosch Corporation, Springfield, Mass. Ignition system. 2,643,284, June 23.

Quigley, Herbert, Hastings, assignor to National Brass Company, Grand Rapids, Mich. Key-in-knob lock. 2,642,735, June 23.

Quillinan, Michael J., New York, N. Y. Slide rule. 2,643,057, June 23.

Quillinan, Michael J., New York, N. Y. Slide rule. 2,643,058, June 23.

Quiros, Francisco A., Newark, N. J. Cigarette holder. 2,642,879, June 23.

Radio Corporation of America, assignee: *See*—
Baker, Richard E., and Covely.
Mackey, Donald.
Nickl, Edwin F.
Olson, Harry F., and Preston.
Picard, Robert G., and Reisner.
Shenk, Eugene R., and Liguori.
Szikiai, George C.

Radke, Donald O.: *See*—
Swanson, Edward W., and Radke.

Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Starting and generating system. 2,643,346, June 23.

Rainwater, Leo J., New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Balanced double ionization chamber X-ray monitor. 2,643,343, June 23.

Randol, Glenn T., Mountain Lake Park, Md. Speed-responsive device. 2,643,310, June 23.

Rau, Max, Zurich, Switzerland. Roller trip for printing machines. 2,642,798, June 23.

Ray, Major, Wellston, Mo. Floor waxer. 2,642,605, June 23.

Raybestos-Manhattan, Inc., assignee: *See*—
Kingman, George F.

Rayette, Inc., assignee: *See*—
Den Beste, Marion J.

Raytheon Manufacturing Company, assignee: *See*—
Borgeson, Paul W.

Recob, John D., assignor of one-half to W. R. Ross, Springfield, Ohio. Adjustable awning. 2,642,634, June 23.

Redfield, George E., assignor to Admiral Corporation, Chicago, Ill. Record changer. 2,643,128, June 23.

Reed, Daniel E., Norwalk, Conn, assignor to Supersite Corporation, Bronx, N. Y. Rearview mirror apparatus. 2,643,084, June 23.

Reed Roller Bit Company, assignee: *See*—
Peter, Robert G.

Reichelderfer, Charles A., assignor to Norman Products Company, Columbus, Ohio. Adjustable ventilator grille. 2,642,792, June 23.

Reid, Laurence S.: *See*—
Huntington, Richard L., and Reid.

Reis, John P., Sturgeon Bay, assignor to Amity Leather Products Co., West Bend, Wis. Case. 2,642,913, June 23.

Reismann, George, Litchfield Park, Ariz. Irrigation ditch block. 2,642,723, June 23.

Reisner, John H.: *See*—
Picard, Robert G., and Reisner.

Reiss, Harold R., Philadelphia, Pa. Information collecting system. 2,643,172, June 23.

Reitz, Warren E.: *See*—
Chapman, William J., and Reitz.

Remington Arms Company, Inc., assignee: *See*—
Du Pont, Francis G.

Remington Rand Inc., assignee: *See*—
Braun, Karl J.
Belechle, Ambrosius.
Roggenstein, Edwin O.

Renfro, Julian M., Wheeler, Oreg. Stepladder. 2,643,045, June 23.

Renick, Wendell E., Grove City, assignor to The Denison Engineering Company, Columbus, Ohio. Unloading valve. 2,642,887, June 23.

Republic Steel Corporation, assignee: *See*—
De Vau, Louis P., and Baltus.
Schaefer, Frederick R., and Emery.

Reynolds, Charles B., Orange, Calif. Drilling equipment and well pipe cleaner. 2,642,942, June 23.

Reynolds, Charles C., Dallas, Tex. Incinerator. 2,642,826, June 23.

Rhodes, Frederick S.: *See*—
Thomas, Arthur, and Rhodes.

Rice, Edward R., Worcester, Mass. Aspirating trocar. 2,642,873, June 23.

Ridgley, Cornelius J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Arc chute. 2,643,314, June 23.

Rigby, Richard, Great Crosby, Liverpool, and J. C. S. White, Shorcham-by-Sea, England, assignors to Shell Development Company, San Francisco, Calif. Heat exchanger. 2,643,098, June 23.

Rising, Rachel L., Los Angeles, Calif. Headrest for automobiles. 2,642,927, June 23.

Robert, Leon, Juilonville Les Pins, France. Pendulum actuated electric clock. 2,642,715, June 23.

Robertson, H. H., Company, assignee: *See*—
Johnson, Thomas B.

Robertson, William, and L. W. Higgins, assignors to Bull Dog Electric Products Company, Detroit, Mich. Panel board neutral bar. 2,643,363, June 23.

Robinson, Art L., Odessa, assignor to Merla Tool Corporation, Dallas, Tex. Well flow apparatus. 2,642,812, June 23.

Robinson, James, Huntington Woods, assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,642,810, June 23.

Robinson, Joseph, New York, N. Y. Slack adjuster. 2,642,963, June 23.

Robinson, Philip L., Derby, England. Pottery casting machine. 2,642,644, June 23.

Rodden, John A., Pontiac, Mich. Thermoelectric switch. 2,643,312, June 23.

Roebling's, John A., Sons Company, assignee: *See*—
Acock, George W., Suppers, and Voorhees.

Roeder, Albert L., Celina, Ohio. Safety car seat. 2,642,923, June 23.

Roggenstein, Edwin O., Norwalk, Conn., assignor to Remington Rand Inc., New York, N. Y. Motor-driven carriage return mechanism for business machines and the like. 2,642,976, June 23.

Roller Bearing Company of America, assignee: *See*—
Barr, Victor L.

Rooney, John T., West Palm Beach, Fla. Vertical illuminator. 2,642,775, June 23.

Rose, Francis L., and G. Swain, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Polymeric diguanides. 2,643,232, June 23.

Rose, Morris, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Terminal pin block. 2,643,365, June 23.

Ross, John A., Klamath Falls, Oreg. Railroad joint. 2,643,063, June 23.

Ross, Olive D., executrix: *See*—
Hansen, William W.

Ross, Sidney D., Williamstown, and I. Kuntz, assignors to Sprague Electric Company, North Adams, Mass. 3,8-bis-(trifluoromethyl)-benzo (c) cinnoline and N-oxides thereof. 2,643,252, June 23.

Ross, Sidney D., Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Halogenated compounds. 2,643,270, June 23.

Ross, Walter R., assignee: *See*—
Recob, John D.

Roush, Alan D., Dayton, O. M. Stolz, near Daytou, and J. D. Yeck, assignors to General Building Units, Inc. Dayton, Ohio. Panel for prefabricated houses. 2,642,968, June 23.

Rover Company Limited, The, assignee: *See*—
Bell, Francis R.

Roys, Alden T., assignor to Leland-Gifford Company, Worcester, Mass. Electric control system for hydraulic step drilling machines. 2,642,847, June 23.

Rubenstein, Harry J., Kansas City, Mo. Pocketed display rack. 2,643,002, June 23.

Ruberoid Co., The, assignee: *See*—
Young, Marshall B.

Rummery, Frank O.: *See*—
Allan, Benjamin W., and Rummery.

Russe, Laurence P.: *See*—
Taylor, George E., and Russe.

Russell, Charles: *See*—
MacCullum, Alan M., and Russell.

Russell, Franklin G., assignee: *See*—
Peacock, George W., Sr.

Russell, George F.: *See*—
Mann, Julius W., and Russell.

Sabot, John T.: *See*—
Body, Alfred C., and Sabol.

Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—
Elmendorf, Arthur R.

Safflotl, Ralph P., Valley Stream, N. Y. Portable floor cleaning device with sponge covered cleaning roller. 2,642,601, June 23.

St. Palley, Zoltan O., Branford, Conn. Cable armor cutter. 2,642,651, June 23.

Salauze, Jean, Paris, assignor to Societe des Accumulateurs Fixes et de Traction, Romainville, France. Negative electrode for alkaline storage batteries and manufacturing the same. 2,643,276, June 23.

Salivar, Charles J.: *See*—
Goett, Edward J., Macdonough, and Salivar.

Salvin, Victor S., Irvington, N. J., assignor to Celanese Corporation of America, New York, N. Y. Treatment with alcoholic solution to complete coupling of azo dyes in cellulose acetate textile material. 2,643,175, June 23.

Sandberg, Oscar, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Package wrapping machine. 2,642,707, June 23.

Sandor, William C.: *See*—
Neely, William H., Sandor, and Smith.

Saunders, Davis H., Maquoketa, Iowa. Automatic spark plug switch. 2,643,275, June 23.

Savage, Stanley, Seattle, Wash. Window frame construction. 2,642,632, June 23.

Savidge, Leslie N., Burton, and R. Thomas, Bromborough, England, assignors to Lever Brothers Company, Cambridge, Mass. Fluorescent alkoxy benzoyl derivatives of 4,4' diamino stilbene-2,2' disulfonic acid and detergent compositions containing same. 2,643,197, June 23.

Savidge, Leslie N., and R. Thomas, Bromborough, England, assignors to Lever Brothers Company, Cambridge, Mass. Fluorescent compound and imparting fluorescent effects to materials. 2,643,198, June 23.

Savoy, Michael: *See*—
Bond, Donald C., and Savoy.

Sbrighi, Antonio, assignor to Societa Italiana Ernesto Breda per Costruzioni Meccaniche, Milan, Italy. Streamlined corridor vehicle. 2,642,816, June 23.

Schaefer, Frederick R., Youngstown, and R. W. Emery, Warren, assignors to Republic Steel Corporation, Cleveland, Ohio. Cable reel and lagging. 2,642,990, June 23.

Schetwer, Albert T., Erie, Pa. Coupling. 2,643,140, June 23.

Schell, William J., Jr., Jersey City, N. J. Implement for use in laying square tile. 2,642,674, June 23.

Schesser, Ermen C., Rockford, Ill. Outlet box cable connector. 2,643,136, June 23.

Schiffman, Murray M., New York, N. Y. Garment hanger. 2,643,036, June 23.

Schilperoord, Pieter B. A.: *See*—
Jonker, Gerard H., and Schilperoord.

Schlitz, Jos., Brewing Company, assignee: *See*—
Steckling, Charles W.

Schmidt, Edward G.: *See*—
Cantalupo, Francis J., De Craene, Schmidt, Yant, and Setka.

Schnitzer, Benjamin J.: *See*—
Bateman, Ralph C., and Schnitzer.

Schnürle, Adolf: *See*—
Elwert, Otto, and Schnürle.

Schnürle, Gertrud, sole heir: *See*—
Elwert, Otto, and Schnürle.

Scholfield, Richard P., New York, N. Y. Filing drum. 2,642,875, June 23.

Scholkemeier, Friedrich-Wilhelm, Braunschweig-Lehndorf, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany. Focusing apparatus for reflex photographic cameras. 2,642,790, June 23.

Schroeder, John L., Watertown, Wis. Animal feeder. 2,642,837, June 23.

Schulze, Raymond: *See*—
Gregg, Kenneth J., and Schulze.

Schwartz, Nathan R., assignor to Naras Research, Inc., New York, N. Y. Swivel unit. 2,643,144, June 23.

Schweizerische Lokomotiv-Und Maschinenfabrik, assignee: *See*—
Widmer, Leo P.

Schwend, Fred N.: *See*—
Oldenburg, Kenneth F., and Schwend.

Schwinger, Julian S.: *See*—
Lippmann, Bernard A., and Schwinger.

Scott-Atwater Manufacturing Company, assignee: *See*—
Snyder, Merton F.

Scott, Cleveland R.: *See*—
Ayers, Arnold L., and Scott.

Screw Conveyor Corporation, assignee: *See*—
Maas, Russell B.

Semler, Loren H., assignor to Metal Specialties Manufacturing Co., Chicago, Ill. Dispenser for ejecting and severing gummed tape. 2,642,936, June 23.

Setka, Raymond P.: *See*—
Cantalupo, Francis J., De Craene, Schmidt, Yant, and Setka.

Sewell, Ben W: *See*—
Ogorzaly, Henry J., and Sewell.

Seymour, Paul M., Marlboro, Mass. Folding table and bench. 2,642,925, June 23.

Shadrick, Richard H., Minneapolis, Minn., assignor, by mesne assignments, to R. and P. Hacking and J. J. Panucci. Lathe control mechanism. 2,642,649, June 23.

Shaw, Burton E.: *See*—
Gluffrida, Philip, and Shaw.

Shaw, James W., assignor to Stoddart Aircraft Radio Company, Los Angeles, Calif. Adjustable coaxial attenuator assembly. 2,643,294, June 23.

Shaw, Paul N., Shaker Heights, Ohio. Safety device for presses. 2,642,755, June 23.

Shawinigan Resins Corporation, assignee: *See*—
Crozier, Robert N., and Wilson.
Wilson, Wilfred K.

Sheldon, Malcolm H., deceased, by M. V. Sheldon, administratrix, Athens, Pa. Mechanical interlock. 2,642,753, June 23.

Sheldon, Mildred V., administratrix: *See*—
Sheldon, Malcolm H.

Shell Development Company, assignee: *See*—
Dannenberg, Hans.
Lacomble, Antoine E., Hearne, and La France.
Rigby, Richard, and White.
Shokal, Edward C., Newey, and Bradley.
Wachter, Aaron, and Stillman.

Shenk, Eugene R., Brooklyn, and A. Liguori, New York, N. Y., assignors to Radio Corporation of America. Protective circuits. 2,643,359, June 23.

Sherman, Charles G., Mission, Kans., and G. E. Owens, Independence, Mo., assignors, by mesne assignments, to O. W. Chase, Mission, Kans. Combination fan and awning construction. 2,643,053, June 23.

Sherman, Harry, assignor to Ardsley Curtain Co., Inc., New York, N. Y. Curtain edge construction. 2,642,577. June 23.

Sherman, Harry, assignor to Ardsley Curtain Co., Inc., New York, N. Y. Hemmer. 2,642,827, June 23.

Shirk, Robert M., Lindamere, Wilmington, Del., assignor to Houdry Process Corporation, Philadelphia, Pa. Disengagement of gases from fluent solid particles. 2,643,161, June 23.

Shively, Walter E.: *See*—
Palko, Andrew J., and Shively.

Shokal, Edward C., Walnut Creek, H. A. Newey, Lafayette, and T. F. Bradley, Orinda, assignors to Shell Development Company, Emeryville, Calif. Nitrogen-containing polyethers and curing glycidyl polyethers to resinous products. 2,643,239, June 23.

Shreve, Frances E., assignee: *See*—
Geel, John J.

Silver, Martin, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Tracking system between receiver and transmitter. 2,643,329, June 23.

Simmons, Aldred J.: *See*—
Simmons, Cora P. and A. J.

Simmons Company, assignee: *See*—
Petersen, John S., and Coshun.

Simmons, Cora P. and A. J., Kansas City, Mo.; said C. P. Simmons assignor to A. J. Simmons. Sectional conduit. 2,642,899, June 23.

Simon, Ell., Los Angeles, F. W. Thomas, Burbank, and E. H. Burkart, North Hollywood, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Housing for electrical apparatus. 2,642,920, June 23.

Simon, Leonard B.: *See*—
Spiess, Irwin, and Simon.

Simons, Archie, Leicester, assignor to Power Jets (Research and Development) Limited, London, England. Pressure reducing valve. 2,642,892, June 23.

Simons, John K., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Epichlorhydrin-sulfonamide resins. 2,643,244, June 23.

Simonton, William L.: *See*—
Hott, Jon V. K., and Simonton.

Simpson, Arthur W., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Dry cell. 2,643,278, June 23.

Simpson, Jack W. E., Richmond, Va. Interchangeable letter sign. 2,642,686, June 23.

Simpson, Kenneth M., Santa Barbara, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Ionization gauge. 2,643,342, June 23.

Sinclair Oil and Gas Company, assignee: *See*—
Smith, Robert L., and Watson.

Sinclair Refining Company, assignee: *See*—
Erickson, Henry.
Teter, John W.

Sines, Harold S., assignee: *See*—
Carlson, Edward C.

Sivacek, Emil E., assignor to King-Seeley Corporation, Ann Arbor, Mich. Windshield wiper mechanism. 2,642,614, June 23.

Skewis, William H., Los Angeles, Calif. Valve. 2,642,890, June 23.

Sleeger, George F., York, Pa. Signal indicator for fishing lines. 2,643,371, June 23.

Sloan, John F.: *See*—
Lincoln, Clovis W., Zeigler, Verbrugge, and Sloan.

Smedley, Homer L.: *See*—
Wilson, Charles C., and Smedley.

Smiley, Lowell E., Lorain, Ohio. Extensible rule. 2,642,667, June 23.

Smiley, William O.: *See*—
Frisbie, Stewart E., Smiley, and Frommer.

Smith, Alexander: *See*—
Smith, Lucius N. and A.

Smith, Arthur E., Los Angeles, Calif. Receptacle closure. 2,642,870, June 23.

Smith, Arthur F., Webster, N. Y. Blood container and making the same. 2,642,866, June 23.

Smith, Charles E.: *See*—
Neely, William H., Sandor, and Smith.

Smith, Ira D., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Fluid spring. 2,643,112. June 23.

Smith, James A.: *See*—
Clark, Carleton L., Vicario, Lyons, Smith, and Hickey.

Smith, Lucius N. and A., Montverde, Fla. Cutter and breaker bar for lawn mowers. 2,642,711, June 23.

Smith, Robert L., Western Springs, and K. M. Watson, Madison, Wis., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla. Oil recovery process. 2,642,043, June 23.

Smith, Telford L., South San Francisco, Calif. Pipe repair clamp. 2,643,137, June 23.

Smith, William M., Cincinnati, Ohio. Automatic fishing pole rack. 2,642,692, June 23.

Smith, William P., Lawrence, Kans. Electrostatic voltage power generator. 2,643,349, June 23.

Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper. 2,642,612, June 23.

Snap-On Tools Corporation, assignee: *See*—
Walraven, George M., and Knudsen.

Snyder, Merton F., assignor to Scott-Atwater Manufacturing Company, Minneapolis, Minn. Propeller clutch structure. 2,642,730, June 23.

Societa Applicazioni Gomma Antivibranti, assignee: *See*—
Boschi, Antonio.

Societa Italiana Ernesto Breda per Costruzioni Meccaniche, assignee: *See*—
Sbrighi, Antonio.

Societe Anonyme de l'Ecluse, assignee: *See*—
D'Heilly, Marcelle.

Societe des Accumulateurs Fixes et de Traction, assignee: *See*—
Salauze, Jean.

Societe Nationale d'Etode et de Construction de Moteurs d'Aviation, assignee: *See*—
Bertin, Jean H., and Marchal.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Augustine, Frederick B.

Soenksen, Edwin, De Witt, Iowa. Fishing rod holder. 2,642,690, June 23.

Soffer, Jack W., assignor to Development Research, Inc., St. Louis, Mo. Tamperproof container closure. 2,643,015, June 23.

Somerstein, Fred, assignor to Crossly Window Corp., Miami, Fla. Awning-type window and operating means therefor. 2,642,967, June 23.

Sorteberg, Johannes, Bath, Pa. Automatically balanced force bridge. 2,643,055, June 23.

Sottile, Samuel R., Patton, Pa. Guitar and sling combination. 2,643,039, June 23.

Soucek, Dominick, Cicero, assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer feeding and proportioning apparatus. 2,642,980, June 23.

Spann, Lawrence R., Naugatuck, and G. R. Tarbox, Cheshire, assignors to Eastern Malleable Iron Company, Naugatuck, Conn. Brake slack adjuster for railway cars. 2,642,964, June 23.

Sperry Corporation, The, assignee: *See*—
Hansen, William W.
Lyon, Floyd A.
Harris, Herbert, Jr.

Spiess, Irwin, and L. B. Simon, New York, N. Y. Electric frankfurter cooker. 2,642,794, June 23.

Spinks, Joseph M., Atlanta, Ga. Grip type exercising device. 2,643,123, June 23.

Sprague Electric Company, assignee: *See*—
Peck, David B.
Ross, Sidney D.
Ross, Sidney D., and Kuntz.

Spring, Robert E., Ashtabula, assignor to Spring Wood Products, Inc., Geneva, Ohio. Loading base. 2,643,081, June 23.

Spring Wood Products, Inc., assignee: *See*—
Spring, Robert E.

Staab, Frank W., Syracuse, and J. M. Kolbas, Tully, assignors to Bristol Laboratories Inc., Syracuse, N. Y. Precipitation of fine particle procaine penicillin G. 2,643,251, June 23.

Stalger, Kurt: *See*—
Kamm, Wunibald I. E., Krautter, and Stalger.

Stallmann, Otto, Bridgeton, N. J., and E. O. Langerak, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Isocyanate dimers as color forming intermediates. 2,643,250, June 23.

Stamets, Wm. K., Company, assignee: *See*—
Long, Arthur H.

Standard Oil Development Company, assignee: *See*—
Carr, James W., Jr., Griffin, and Nicholson.
Efferson, George M.
Fuqua, Mack C.
Matuszak, Alfred H., and Weisel.
Morris, Charles A., and Exner.
Nicolai, Lloyd A.
Ogorzaly, Henry J., and Sewell.
Watson, Albert T., and Hastings.

Standard Register Company, The, assignee: *See*—
Metzner, Albert W.

Standfast, George A., Jefferson City, Mo. Oblique rail joint. 2,643,084, June 23.

Stanton, Arthur J.: *See*—
Campbell, Ernest F., Kinzelman, and Stanton.

Staples, Otis E., assignor to The Cleveland Hobbing Machine Company, Euclid, Ohio. Gear grinding machine. 2,642,702, June 23.

Stapp, Chester C.: *See*—
Wells, Olga V., Borst, and Stapp.

Steckling, Charles W., assignor to Jos. Schlitz Brewing Company, Milwaukee, Wis. Carton taping apparatus and method. 2,643,016, June 23.

Stellin, Domnic V., Chicago, Ill. Floating tool mounting means. 2,643,142, June 23.

Stelter, Francis C. W., New York, N. Y. Burglar alarm system. 2,643,372, June 23.

Stephenson Corporation, assignee: *See*—
Goodner, Monroe H.

Stephenson, Hugh M., and K. M. Feiertag, Fort Wayne, Ind., assignors to General Electric Company. Torque measuring device. 2,642,740, June 23.

Sterba, Edward C., Western Springs, Ill. Clothes locker. 2,643,171, June 23.

Stevens, Roy R., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Piston cushioning apparatus. 2,642,845, June 23.

Stevens, Roy R., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure control apparatus. 2,642,969, June 23.

Stewart, Walter A., assignor to American Optical Company, Southbridge, Mass. Eye protective device. 2,642,568, June 23.

Stillman, Nathan: *See*—
Wachter, Aaron, and Stillman.

Stoddart Aircraft Radio Company, assignee: *See*—
Shaw, James W.

Stolz, Owen M.: *See*—
Roush, Alan D., Stolz, and Yeck.

Straley, Henry F., Riverton, Wyo. Screen for threshing machines. 2,642,993, June 23.

Strausser, Harry E., Middle River, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Shaft coupling. 2,642,729, June 23.

Strub, Richard: *See*—
De Stadelhofen, Jean M., Müller-Strobel, Patry, and Strub.

Stubelek, Zygmunt, Southampton, N. Y. Fowl scalding machine. 2,642,618, June 23.

Stubnitz-Greene Spring Corporation, assignee: *See*—
Stubnitz, Maurice.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Seat spring. 2,642,929, June 23.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Seat bottom spring. 2,642,930, June 23.

Styles, Ora C., Stockton, Calif. Jointer for circular saws. 2,642,758, June 23.

Sullivan, Raymond H.: *See*—
Contant, Peter R., and Sullivan.

Suma, James F., Chicago, Ill. Hydraulic valve gauge. 2,642,673, June 23.

Sunbeam Corporation, assignee: *See*—
Browning, George.

Sundbom, Carl S., and C. V. Winquist, assignors to Mill Engineering & Supply Co., Seattle, Wash. Built-up crankshaft for reciprocating machinery. 2,643,145, June 23.

Sundholm, Edwin P., Albert City, Iowa. Producing discharge heads and handle supports for barrel pumps. 2,642,653, June 23.

Sundholm, Edwin P., assignor to Our Savior's Evangelical Lutheran Church, Albert City, Iowa. Grease gun loading pail base for grease containers with cutter and interlock means for said containers. 2,643,044, June 23.

Supersite Corporation, assignee: *See*—
Reed, Daniel E.

Suppers, Hobart G.: *See*—
Acock, George W., Suppers, and Voorhees.

Swain, Geoffrey: *See*—
Rose, Francis L., and Swain.

Swanson, Edward W., and D. O. Radke, assignors to Admiral Corporation, Chicago, Ill. Supporting mechanism for cabinet doors. 2,643,166, June 23.

Swift & Company, assignee: *See*—
Coad, Frederic J.

Sylvan, Joseph, Berkley, Mich. Window frame assembly. 2,642,935, June 23.

Sylvan, Joseph, Berkley, Mich. Door frame. 2,642,966, June 23.

Sylvania Electric Products Inc., assignee: *See*—
Arnold, Charles E.

Szekely, O. E., & Associates, Inc., assignee: *See*—
Szekely, Otto E.

Szekely, Otto E., assignor, by mesne assignments, to O. E. Szekely & Associates, Inc., Philadelphia, Pa. Latch released positive clutch. 2,642,970, June 23.

Szikiai, George C., Princeton, N. J., assignor to Radio Corporation of America. Television system. 2,643,289, June 23.

Talmey, Paul, assignor to General American Transportation Corporation, Chicago, Ill. Refrigerator car. 2,642,818, June 23.

Tarbox, George R.: *See*—
Spann, Lawrence R., and Tarbox.

Taylor, Byron M., San Diego, Calif. Extensible bed and shelter for motor vehicles. 2,642,587, June 23.

Taylor, Frank F., Company, The, assignee: *See*—
Gill, Donald W.

Taylor, George E., and L. P. Ruase, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of m-dinitrobenzene. 2,643,271, June 23.

Teal, Paul, Walla Walla, Wash. Automatic brake hitch assembly for trailers. 2,642,961, June 23.

Tele King Corporation, assignee: *See*—
Murris, Myron J.

Teletype Corporation, assignee: *See*—
Hansen, Theodore A.
Potts, Louis M.

Tengstedt, Karl H.: *See*—
Pepper, Henry M., and Tengstedt.

Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Production of nitrogen containing compounds from ammonia and olefins. 2,643,266, June 23.

Thomaras, Brinzie A., Detroit, Mich. Portable refrigerator construction. 2,642,728, June 23.

Thomas, Albert, and L. R. Fellows, assignors to Armstrong Siddeley Motors Limited, Coventry, England. Mounting of turbine blades. 2,643,086, June 23.

Thomas, Arthur, Wallington, and F. S. Rhodes, Thornton Heath, assignors to Powers-Samas Accounting Machines Limited, London, England. Apparatus for comparing statistical record cards. 2,643,056, June 23.

Thomas, David F., Minneapolis, assignor to Waterous Company, St. Paul, Minn. Sanitary pump. 2,642,808, June 23.

Thomas, Frank W.: *See*—
Simon, Eli, Thomas, and Burkart.

Thomas, Philip A.: *See*—
Walton, Richard K., and Thomas.

Thomas, Richard: *See*—
Savidge, Leslie N., and Thomas.

Thomas, Samuel L., Woodside, N. Y. Adjustable measuring cup. 2,642,744, June 23.

Thomas, Walter M.: *See*—
Kropa, Edward L., and Thomas.

Thuerig, Joseph, Cincinnati, Ohio. Forceps. 2,642,871, June 23.

Thurston, Paul L., Martinsburg, W. Va, assignor to Interwoven Stocking Company, New Brunswick, N. J. Knitted article of hosiery. 2,642,732, June 23.

Tide Water Associated Oil Company, assignee: *See*—
Harrison, Robert D., and Hall.
Vaughn, Samuel C.

Times Facsimile Corporation, assignee: *See*—
Cooley, Austin G.

Tobias, Leon, Brooklyn, N. Y. Necktie. 2,642,572, June 23.

Tompkin, George W., Lahaina, Hawaii. Centrifugal machine. 2,642,997, June 23.

Tower, Gordon E., assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg. Forming artificial board. 2,643,186, June 23.

Toy, Arthur D. F., Park Forest, Ill., assignor to Victor Chemical Works. Bis(dialkyi phosphate) esters of alkylidene diphenols. 2,643,265, June 23.

Tratzik, Frederick: *See*—
Mueller, Lucien W., and Tratzik.

Trevaskis, Henry, Solihull, Birmingham, assignor to Dunlop Rubber Company Limited, London County, England. Firing mechanism for automatic guns. 2,642,779, June 23.

Triebes, Helen E.: *See*—
Triebes, Herman A., and H. E.

Triebes, Herman A., and H. E., Forest Park, Ill. Sun guard for the eyes. 2,642,569, June 23.

Trion, Inc., assignee: *See*—
Landgraf, George F.

Troutman, Clarence A., High Point, N. C. Expansible cabinet. 2,643,083, June 23.

Tucker, Artie S., Independence, Mo. Powered rotary rake. 2,642,710, June 23.

Tuttle & Kift, Inc., assignee: *See*—
Tuttle, William R.

Tuttle, William R., Riverside, assignor to Tuttle & Kift, Inc., Chicago, Ill. Electric heater. 2,643,317, June 23.

Tvedt, Bernhard, Simonsvik, near Bergen, Norway. Accessory for flies. 2,642,861, June 23.

Tyskewicz, John P., assignor to The Maxim Silencer Company, Hartford, Conn. Separator for steam, water, and scale. 2,642,949, June 23.

Union Carbide and Carbon Corporation, assignee: *See*—
Cornell, William D.
Walton, Richard K., and Thomas.
Zimmerman, Herman M.

Union Chimique Belge, S. A., assignee: *See*—
Morren, Henri G. P. J.

Union Totalisator Company Limited, The, assignee: *See*—
Handley, John.

United Aircraft Corporation, assignee: *See*—
Martin, Erle, Beebe, and Anderson.
Martin, Erle, and McCarthy.
Pearl, David R.

United-Carr Fastener Corporation, assignee: *See*—
Van Buren, Harold S., Jr.

United Shoe Machinery Corporation, assignee: *See*—
Baker, Corwin W.
Kant, Edwin S.

United States Atomic Energy Commission, United States of American as represented by the, assignee: *See*—
Fairstein, Edward.
Leland, Wallace T.
Rainwater, Leo J.
Simpson, Kenneth M.

United States Rubber Company, assignee: *See*—
Yurgen, William J.

United States Steel Corporation, assignee: *See*—
Brickman, Alan E.
Wingenroth, Roy L.

Universal Oil Products Company, assignee: *See*—
Hartwig, Karl T.

Universal Wire Spring Company, The, assignee: *See*—
Neely, William H., Sandor, and Smith.

Upjohn Company, The, assignee: *See*—
Heinzelmann, Richard V.

Uta, Wade H.: *See*—
Lewis, Warren J., and Uta.

Valensi, Georges, Paris, France. Artificial crystal for polarization of electromagnetic waves. 2,643,336, June 23.

Valenti, Anthony, Rochester, N. Y. Saucer. 2,642,731, June 23.

Van Buren, Harold S., Jr., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Buckle. 2,642,641, June 23.

Vanderveld, Anthony, and C. F. Logie, assignors to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Store wall furniture. 2,643,170, June 23.

Van der Willigen, Paul C., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric arc welding. 2,643,319, June 23.

Vanni, Pier G., Milan, Italy, assignor to Robert Bosch G. m. b. H., Stuttgart, Germany. Pneumatic governor for compression ignition engines. 2,642,855, June 23.

Vaughn, Samuel C., Berkeley, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Lubrication of steam cylinders. 2,642,722, June 23.

Verbrugge, Joseph J.: *See*—
Lincoln, Clovis W., Zeigler, Verbrugge, and Sloan.

Vicario, Carlo: *See*—
Clark, Carleton L., Vicario, Lyons, Smith, and Hickey.

Vickers-Armstrongs Limited, assignee: *See*—
Wood, George.

Vickers Incorporated, assignee: *See*—
Gardiner, Duncan B.
Robinson, James.

Victor Chemical Works, assignee: *See*—
Toy, Arthur D. F.

Virkotype Corporation, assignee: *See*—
Berndt, Richard F.

Vittetoe, Charles R.: *See*—
Gunther, Charles A., and Vittetoe.

Vogel, Lawrence E., Canajoharie, N. Y., assignor to Arkell and Smiths. Disposable pallet. 2,643,080, June 23.

Vogt, Clarence W., Norwalk, Conn. Method of and apparatus for defining plastic masses. 2,642,620, June 23.

Voorhees, Harris W.: *See*—
Acock, George W., Suppers, and Voorhees.

Vosler, Edward J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Pressure band for brake linings. 2,642,917, June 23.

Wachter, Aaron, and N. Stillman, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Compositions for protection of metals against corrosion. 2,643,176, June 23.

Wachter, Aaron, and N. Stillman, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Vapor phase corrosion inhibition of metals. 2,643,177, June 23.

Wachter, Aaron, and N. Stillman, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Corrosion inhibition. 2,643,178, June 23.

Wade, Charles E., Chevy Chase, Md., assignor, by mesne assignments, to The Kenwood Corporation, Washington, D. C. Typewriter pedestal desk. 2,643,167, June 23.

Wade, Elmer C., New York, N. Y. Gyroscopic valve control for hydraulic circuits. 2,642,885, June 23.

Wadell Equipment Co., assignee: *See*—
Woerner, William.

Wagner, Harold A., Portland, Oreg. Front apron adjusting mechanism for carry-type scrapers. 2,642,681, June 23.

Wahl, Harold F., assignor to Hyster Company, Portland, Oreg. Apparatus for the transportation of pulpwood and the like. 2,643,012, June 23.

Walker, Daniel N., Ashby Parva, near Rugby, assignor to Power Jets (Research & Development) Limited, London, England. Engine fuel control for internal expansion engine fuel systems. 2,642,719, June 23.

Walraven, George M., and R. G. Knudsen, assignors to Snap-On Tools Corporation, Kenosha, Wis. Air valve mechanism for controlling the operation of pneumatic devices and the like. 2,642,848, June 23.

Walter, Leo N., Lansing, Ill. Forced air flow air heating furnace. 2,642,857, June 23.

Walters, William M., Eleanor, W. Va. Nonsoap synthetic detergent in cake form. 2,643,229, June 23.

Walton, Richard K., Montclair, and P. A. Thomas, East Orange, N. J., assignors to Union Carbide and Carbon Corporation. Polysiloxane antifoam agents. 2,643,240, June 23.

War, United States of America as represented by the Secretary of, assignee: *See*—
Cairns, Robert W.
Gleason, Daniel H.

Ward, Thomas C., Waco, Tex. Ambulatory traction splint for osteal deformities. 2,642,864, June 23.

Ware, Cecil, Houston, Tex. Rotary slip elevator. 2,642,642, June 23.

Warner Company, assignee: *See*—
Megrail, George G.

Warner & Swasey Company, The, assignee: *See*—
Clark, Robert H.

Watson, Albert T., and S. H. Hastings, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Production of high Viscosity index lubricating oils. 2,643,217, June 23.

Waterous Company, assignee: *See*—
Thomas, David F.

Watson, Kenneth M.: *See*—
Smith, Robert L., and Watson.

Wattpar Corporation, assignee: *See*—
Watts, Albert E., Jr., and Parker.

Watts, Albert E., Jr., Great Neck, and J. R. Parker, Brooklyn, N. Y., assignors to Wattpar Corporation. Gasoline dispensing system for airplanes. 2,642,957, June 23.

Watts, John L., Daytona Beach, Fla. Plant identification tag and making and applying same. 2,642,684, June 23.

Weatherhead Company, The, assignee: *See*—
Hunziker, Fred, and Courtot.

Weber Insulations, Incorporated, assignee: *See*—
Weber, Louis, Sr.

Weber, Louis, Sr., Tacoma, Wash., assignor to Weber Insulations, Incorporated, East Chicago, Ind. Insulating filler compositions. 2,643,103, June 23.

Weisel, Charles A.: *See*—
Matuszak, Alfred H., and Weisel.

Weisser, Karl: *See*—
Kahn, David, and Weisser.

Wellman, Albert, Schenectady, N. Y., assignor to General Electric Company. Condition responsive device. 2,643,154, June 23.

Wells, Olga V., Alhambra, R. O. Borst, Pasadena, and C. C. Stapp, Los Angeles, Calif. Vending machine. 2,643,109, June 23.

West Point Manufacturing Company, assignee: *See*—
Wilson, Charles C., and Smedley.

Westerfield, Bedford, Detroit, Mich. Fishing device. 2,642,694, June 23.

Western Electric Company, Incorporated, assignee: *See*—
Craddock, Henry E.
Cranford, Jesse A.
Frankwich, Alexander C.
Hamilton, James O.
Hertenstein, Edgar W., Jr.
Herzog, Carl.
Jones, David D.
Moeller, Lowell J.
Strasser, Harry E.

Westinghouse Air Brake Company, assignee: *See*—
Brooks, Ralph C.
Lawrence, William J.
Stevens, Roy R.
Whaley, Fred S.
Whitney, Ralph T.

Westinghouse Electric Corporation, assignee: *See*—
Durkin, William J., and Arvidson.

Whaley, Fred S., Greensburg, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure brake control apparatus. 2,642,962, June 23.

Whitcomb, William H., Portland, Oreg. Subdivided cashbox. 2,642,985, June 23.

White, Edwin H., assignee: *See*—
Mager, Gustave E.

White, John C. S.: *See*—
Rigby, Richard, and White.

White, Wayne E., assignor to Ozark-Mahoning Company, Tulsa, Okla. Treatment of fluorinated aluminum-bearing mineral products. 2,643,179, June 23.

White, Wayne E., assignor to Ozark-Mahoning Company, Tulsa, Okla. Water fluoridation and impurity coagulation. 2,643,226, June 23.

Whitney, Ralph T., Irwin, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure control apparatus for free piston machines. 2,642,717, June 23.

Wicklatz, John E.: *See*—
Howe, John F., and Wicklatz.

Widmer, Leo P., assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Mechanical movement in hydraulic motors. 2,642,748, June 23.

Wilkins, Charles H. T., Port Vue, Pa., assignor to National Standard Company. Securing rubber adhesion to metal and composition therefor. 2,643,273, June 23.

Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic transducing apparatus. 2,643,071, June 23.

Williams, Arthur L., and E. A. Craig, assignors to Federal Machine & Welder Company, Warren, Ohio. Weld wheel construction for seam welders. 2,643,318, June 23.

Williams, Eugenia K.: *See*—
Brenner, Abner, Couch, and Williams.

Williams, Ira, Borger, Tex., assignor to J. M. Huber Corporation, Locust, N. J. Treating channel black. 2,643,182, June 23.

Williams, Leo C., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet or signature feeding mechanism. 2,643,113, June 23.

Williams, Michael P., assignor to Cadillac Products, Inc., Ferndale, Mich. Protecting wrapper for automobile doors. 2,643,050, June 23.

Williams, Paul E., assignor to Keasbey and Mattison Company, Ambler, Pa. Shingle. 2,642,823, June 23.

Wilson, Ben W.: *See*—
Hunter, Hubert T., and Wilson.

Wilson, Charles C., Lanett, and H. L. Smedley, Shawmut, Ala., assignors to West Point Manufacturing Company, West Point, Ga. Apparatus for testing thickness of textile lap. 2,642,664, June 23.

Wilson & Co., Inc., assignee: *See*—
Garapolo, Orlando.

Wilson, Harry W.: *See*—
Burton, Drury R., and Wilson.

Wilson, Ivan V., Wakefield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Paper container with slip resistant coating. 2,643,048, June 23.

Wilson, Palmer C., Uniontown, Pa. Brake safety mechanism. 2,642,960, June 23.

Wilson, Wilfred K.: *See*—
Crozier, Robert N., and Wilson.

Wilson, Wilfred K., assignor to Shawinigan Resins Corporation, Springfield, Mass. Copolymers and copolymer emulsions of salts of monoalkyl esters of maleic acid. 2,643,245, June 23.

Wilson, Wilfred K., assignor to Shawinigan Resins Corporation, Springfield, Mass. Water-soluble copolymers of salts of monalkyl esters of maleic acid. 2,643,246, June 23.

Wilt, Homer E., Akron, Ohio, assignor to the B. F. Goodrich Company, New York, N. Y. Tool for upsetting internally threaded rivets. 2,643,019, June 23.

Winborne, William H.: *See*—
Henderson, Glenn A., and Winborne.

Wingenroth, Roy L., Pittsburgh, Pa., assignor to United States Steel Corporation. Lifting boom for ladle cranes. 2,643,004, June 23.

Wingfoot Corporation, assignee: *See*—
Appleby, Paul E.
Burton, Drury R., and Wilson.
Fauser, Ernest E.
Ford, Charles J.
Juve, Robert D.
Palko, Andrew J., and Shively.

Winkel, Victor J., assignor to Laminated Lumber Products, Inc., Portland, Oreg. Glue applying apparatus for lumber gluing machine. 2,642,835, June 23.
Winn, Lewis E., Leaksville, N. C. Flour sifter. 2,642,992, June 23.
Winquist, Carl V.: *See*—
Sundbom, Carl S., and Winquist.
Wittkuhns, Bruno A., and H. G. D. Nutting, Summit, and G. F. Hill, Madison, N. J., assignors to National Paper Bottle Co. Inc., New York, N. Y. Machine for making paper containers. 2,642,784, June 23.
Wittkuhns, Bruno A., and H. G. D. Nutting, Summit, and G. F. Hill, Madison, N. J., assignors to National Paper Bottle Co. Inc., New York, N. Y. Machine for making paper containers. 2,642,785, June 23.
Wodzanowski, Helen, Jersey City, N. J. Reel for clothesline covers. 2,643,074, June 23.
Woerner, William, Greenbrook, N. J., assignor to Massari Bros. Machine Company, a partnership, trading under the firm name of Wadell Equipment Co., Garwood, N. J. Boring machine spindle construction. 2,642,759, June 23.
Wood, George, assignor to Vickers-Armstrongs Limited, London, England. Reversible propeller. 2,642,946, June 23.
Wood, Homer J., Sherman Oaks, assignor to The Garrett Corporation, Los Angeles, Calif. Variable ratio friction drive. 2,642,749, June 23.
Wood, Joseph K., assignor to General Spring Corporation, New York, N. Y. Spring device. 2,643,109, June 23.
Woodruff, Lee B., Los Angeles, J. D. Alcorn, South Pasadena, and H. B. Hammerstrom, Los Angeles, Calif. Aspirator. 2,642,813, June 23.
Woolley, Harold O., Jr., assignee: *See*—
Kester, Clair E.
Wright, David P., Oakland, and R. H. Fish, Morgon Hill, assignors to Air-O-Fan Products Corporation, Gilroy, Calif. Side delivery spray machine. 2,643,155, June 23.
Yant, Chester W.: *See*—
Cantalupo, Francis J., De Craene, Schmidt, Yant, and Setka.
Yates, Henry G.: *See*—
Brown, Thomas W. F., and Yates.
Yates, Maurice M., Greeneville, Tenn. Adjustable counter for strap sandals. 2,642,677, June 23.
Yeck, John D.: *See*—
Roush, Alan D., Stolz, and Yeck.
Young, Edwin H. P.: *See*—
Curd, Francis H. S., and Young.
Young, Marshall B., Dallas, Tex., assignor to The Ruberoid Co., New York, N. Y. Printing ink for Portland cement bases. 2,643,191, June 23.
Yurgen, William J., Fort Wayne, Ind., assignor to United States Rubber Company, New York, N. Y. Treatment of rubber stock. 2,642,626, June 23.
Zamboni, Frank J., Hynes, Calif. Ice rink resurfacing machine. 2,642,679, June 23.
Zelg, Leo J., Hearne, Tex. Universal traveling unloader sucker for cotton gins. 2,643,160, June 23.
Zeigler, Philip B.: *See*—
Lincoln, Clovis W., Zeigler, Verbrugge, and Sloan.
Zenith Radio Corporation, assignee: *See*—
Aram, Nathan W.
Zimmer, Josef W., Glendale, Mo. Steerable toy truck. 2,642,700, June 23.
Zimmerman, Herman M., Cleveland, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Forming a wet cathode portion. 2,642,628, June 23.
Zint, George, Wapakoneta, Ohio. Tobacco feeding device. 2,642,878, June 23.
Zobel, Theodor W., Braunschweig, Germany, assignor to the United States of America as represented by the Secretary of the United States Air Force. Schlieren apparatus of improved optical quality. 2,642,770, June 23.
Zozulin, Igor V.: *See*—
Okulitch, George J., and Zozulin.
Zupancic, Tony R., Cleveland, Ohio. Fisherman's pliers. 2,643,151, June 23.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Carton for protection of fragile articles, Integral. J. F. Lubricant, Extreme pressure. E. B. Cyphers. Re. 23,671, Currivan. Re. 23,670, June 23.
Container flap folding apparatus. S. H. Berch. Re. Television tube. F. Okolicsanyi. Re. 23,672, June 23. 23,669, June 23.

LIST OF PLANT INVENTIONS

Dicentra Plant. R. H. F. Manske. 1,198, June 23. Rose plant. M. L. Whisler. 1,199–200, June 23.

LIST OF DESIGN INVENTIONS

Apron, Barber chair. V. J. Vece. 169,920, June 23.
Automobile. V. M. Exner. 169,896, June 23.
Bed cover support and health board, Combined. H. M. Stevens. 169,916, June 23.
Bib. H. A. Owen. 169,912, June 3.
Bracelet or similar article. M. Boucher. 169,891, June 23.
Chair, Posture. H. Merit and H. G. Wear, Jr. 169,908, June 23.
Copyholder for typists. M. G. Lewis. 169,906, June 23.
Dispenser, Cigarette package. C. A. Laughlin. 169,905, June 23.
Dispenser, Ice-cream cone. M. Goldberg. 169,901, June 23.
Display form, Sock. H. M. Fisk. 169,899, June 23.
Fabric or similar article, Textile. C. F. Scholle. 169,915, June 23.
Handbag or similar article. O. Wolf. 169,923–4, June 23.
Holder Copybook. H. J. Hawkinson. 169,903, June 23.
Holder for cosmetic containers or similar article. F. M. Breen. 169,892, June 23.
Lamp base, Electric. D. Borowitz. 169,890, June 23.
Loud-speaker horn, Reentrant and direct diffraction. L. S. Hoodwin. 169,904, June 23.
Open end housing for slide type match covers. H. C. Burton. 169,895, June 23.
Plastic sheet, Laminated. G. C. Rassman. 169,913, June 23.
Plate or similar article. G. A. Baker. 169,886, June 23.
Rheostat housing. C. Weissenstein. 169,922, June 23.
Ripsaw, Gang. G. M. Gustin. 169,902, June 23.
Scissors sheath and spool holder, Combined. J. J. Mulcrone, Sr. 169,909, June 23.
Settee. H. Netzer. 169,911, June 23.
Signal, Traffic. J. R. Ferguson. 169,897–8, June 23.
Spat or similar article. M. J. Bollenbach. 169,889, June 23.
Spectacle front. H. Berman, V. Errico, and D. Lofrese. 169,887, June 23.
Spoon or similar article. P. B. Askew. 169,885, June 23.
Stocking. H. T. Bryan. 169,893, June 23.
Stocking. G. C. Tait. 169,918, June 23.
Stocking. W. Tait. 169,919, June 23.
Thermometer. S. Burrows. 169,894, June 23.
Tire, Pneumatic. E. A. Roberts. 169,914, June 23.
Toy bassinet, Miniature. E. L. Stowell. 169,917, June 23.
Toy gun. S. Wasserman and A. M. Sterns. 169,921, June 23.
Truck, Lift. J. A. Frischmann. 169,900, June 23.
Tub, Laundry. B. E. Mustee. 169,910, June 23.
Wall and tower unit for a toy fortress or similar article. G. R. Beyer. 169,888, June 23.
Wheel cover or similar article. G. E. Lyon. 169,907, June 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive wheel dresser. O. H. Calloway. 2,642,856, June 23.
Accessory for files. B. Tvedt. 2,642,861, June 23.
Acoustic device with an inverted horn having a throat vented to the atmosphere. S. L. Heldrich. 2,642,947, June 23.
Actuator. H. M. Geyer and N. J. Bullock. 2,642,752, June 23.
Added air charge and water injection system. L. R. Bester. 2,642,852, June 23.
Adhesive and coating composition from synthetic copolymers. R. N. Crozier and W. K. Wilson. 2,643,238, June 23.
Adhesive composition containing butadiene-styrene copolymer and tack-producing resin. S. L. Brams. 2,643,235, June 23.
Aerating device. O. W. Holden. 2,643,104, June 23.
Aerodynamic valve. J. H. Bertin and R. H. Marchal. 2,642,895, June 23.
Agitating machine for bottled beverages and the like. W. L. Bashford. 2,643,102, June 23.
Air actuated control system. J. H. Province. 2,643,093, June 23.
Air filter. F. A. Krohm. 2,642,843, June 23.
Airplane cleaning and polishing machine. G. Habian. 2,642,599, June 23.
Air volume regulator. A. E. Le Van. 2,642,747, June 23.
Alarm, Combined burglar and fire. C. F. Christle. 2,643,313, June 23.
Alarm system, Burglar. F. C. W. Stelter. 2,643,372, June 23.
Ampoule-syringe, Surgical. O. H. Pontius. 2,642,868, June 23.
Amusement device, Occupant propelled. C. C. Beckett. 2,643,122, June 23.
Anchor, Rock. H. R. Ogburn. 2,642,768, June 23.
Animal feeder. J. L. Schroeder. 2,642,837, June 23.
Animal simulating attachment for bicycles. A. Lucchesi. 2,643,133, June 23.
Antenna, Conical scan. J. J. Brady. 2,643,338, June 23.
Antenna, Elliptically polarized. J. J. Nail. 2,643,337, June 23.
Antenna for televisions, Rotatable. M. P. De Conti. 2,642,754, June 23.
Antenna, Reflector scanning. L. J. Chu. 2,643,339, June 23.
Antenna, Television. H. C. Andersen. 2,643,335, June 23.
Antenna, Turnstile. N. W. Aram. 2,643,334, June 23.
Antifriction carriage roller. V. L. Barr. 2,643,162, June 23.
Apparatus and method for forming and mounting damper bars on grids. E. F. Nickl. 2,642,648, June 23.
Apparatus and method for producing disk phonograph records. I. J. Amo. 2,642,621, June 23.
Apparatus for clearing conduits in dry chemical fire-extinguishing systems. A. Allen. 2,642,944, June 23.
Apparatus for comparing statistical record cards. A. Thomas and F. S. Rhodes. 2,643,056, June 23.
Apparatus for controlling a web of sheet material. V. H. Hasselquist. 2,643,116, June 23.
Apparatus for cutting gears and the like. W. E. Pace. 2,642,780, June 23.
Apparatus for detecting discontinuities in wire. J. A. Cranford. 2,643,285, June 23.
Apparatus for drilling deep wells. A. Arutunoff. 2,643,095, June 23.
Apparatus for electrolytic analysis. R. W. Notvest. 2,643,223, June 23.
Apparatus for forming and assembling egg cartons. J. Gilchrist. 2,642,786, June 23.
Apparatus for handling fluids. E. W. Hertenstein, Jr. 2,642,675, June 23.
Apparatus for handling magnetic material. K. H. Casson. 2,642,994, June 23.
Apparatus for heating and/or cooling canned food or other substances. D. W. Bingham. 2,642,795, June 23.
Apparatus for investigating the water content of a gas. J. Kinsella. 2,642,737, June 23.
Apparatus for measuring temperature. H. Heidenwolf. 2,642,742, June 23.
Apparatus for measuring the specific gravity of a gas. J. S. Powell, Jr. 2,642,738, June 23.
Apparatus for measuring the surface resistivity of materials. L. J. Moeller. 2,643,287, June 23.
Apparatus for producing a power function of an input voltage. D. R. de Boisblanc and R. S. Marsden, Jr. 2,643,348, June 23.
Apparatus for recovering gas borne particles. F. H. Buck. 2,642,953, June 23.
Apparatus for regulating the discharge of liquids through siphons. P. F. Danel. 2,642,888, June 23.
Apparatus for retrieving fishing tackle or the like. F. V. Broady. 2,642,693, June 23.
Apparatus for stitching tires. P. E. Appleby. 2,642,921, June 23.
Apparatus for testing thickness of textile lap. C. C. Wilson and H. L. Smedley. 2,642,664, June 23.
Apparatus for the selective injection of fluids into geological formations. L. A. Ogden, J. R. McChesney, and L. L. McDonald. 2,643,208, June 23.
Apparatus for the transfusion of blood. H. H. Livingston. 2,642,867, June 23.
Apparatus for the transportation of pulpwood and the like. H. F. Wahl. 2,643,012, June 23.
Appliance for stropping or honing razor blades. W. H. Carter and A. W. B. Patch. 2,642,704, June 23.
Arc chute. C. J. Ridgley. 2,643,314, June 23.
Archery sight. B. E. Fredrickson. 2,642,661, June 23.
Armrest for automobiles. S. Diamond. 2,642,926, June 23.
Arrangement in bookkeeping machines. O. K. A. Hägerström. 2,643,054, June 23.
Arrangement in electric air blast circuit breaker. H. Forwald. 2,643,315, June 23.
Article feeding apparatus. C. Herzog. 2,642,978, June 23.
Article retaining means for vehicle instrument panels. M. Mayer. 2,643,042, June 23.
Artificial crystal for polarization of electromagnetic waves. G. Valensi. 2,643,336, June 23.
Aspirating trocar. E. R. Rice. 2,642,873, June 23.
Aspirator. L. B. Woodruff, J. D. Alcorn, and H. H. Hammerstrom. 2,642,813, June 23.
Assembling washers with fasteners, Method and machine for. M. H. Nielsen. 2,642,592, June 23.
Assembling washers with fasteners, Method and machine for. O. J. Poupitch. 2,642,593, June 23.
Attachment for hay balers for distributing chemicals through hay during baling. E. D. Helsey. 2,642,793, June 23.
Automatic control system. S. E. Frisbie, W. O. Smiley, and J. C. Frommer. 2,643,117, June 23.
Automatic fishing pole rack. W. M. Smith. 2,642,602, June 23.
Automatic spark plug switch. D. H. Saunders. 2,643,275, June 23.
Awning, Adjustable. J. D. Recob. 2,642,634, June 23.
Awning construction, Metal. J. J. Hutton. 2,642,635, June 23.
Backboard for punching bags, Fillable. R. J. Malone. 2,643,124, June 23.
Back rest for sofa beds, Folding. J. Pillero. 2,642,586, June 23.
Bag: *See*—
Quick opening bag.
Balanced double ionization chamber X-ray monitor. L. J. Rainwater. 2,643,343, June 23.
Ball bearing. H. L. Potter. 2,643,165, June 23.
Bar: *See*—
Panel board neutral bar.
Bathtub cover. R. T. Gibb. 2,642,580, June 23.
Beading roller for cartons. T. W. Goodrich. 2,642,783, June 23.
Bearing: *See*—
Ball bearing.
Beater means for threshing apparatus, Flailing type. H. M. Dodge and C. Neff. 2,642,877, June 23.
Bed and shelter for motor vehicles, Extensible. B. M. Taylor. 2,642,587, June 23.
Bedclothes support. M. L. Cobb. 2,642,589, June 23.
Bed slat and drawer hanger, Combination. L. H. Gunn. 2,642,588, June 23.
Bed, Sofa. A. M. Bank and A. J. Katz. 2,642,583, June 23.
Bed, Sofa. J. S. Petersen and H. E. Coshun. 2,642,584, June 23.
Bias sisal buff. J. R. Davies. 2,642,706, June 23.
Bis(dialkyl phosphate) esters of alkylidene diphenols. A. D. F. Toy. 2,643,265, June 23.
Block: *See*—
Irrigation ditch block. Terminal pin block.
Blood container and making the same. A. F. Smith. 2,642,866, June 23.
Boat. F. Hermann. 2,642,590, June 23.
Body treating apparatus. H. L. Gordon. 2,642,863, June 23.

Bonding device and method. G. F. Kingman. 2,642,919, June 23.
Bonding of textile yarns to rubber. D. Entwistle. 2,643,207, June 23.
Box: *See*—
Card file box. Railroad journal box.
Brake construction, Disk. P. M. Freer. 2,642,959, June 23.
Brake control apparatus, Fluid pressure. F. S. Whaley. 2,642,962, June 23.
Brake hitch assembly for trailers, Automatic. P. Teal. 2,642,961, June 23.
Brake mechanism, Gun mount. R. J. Lennon. 2,642,958, June 23.
Brake safety mechanism. P. C. Wilson. 2,642,960, June 23.
Brake slack adjuster for railway cars. L. R. Spann and G. R. Tarbox. 2,642,964, June 23.
Bristle setting. K. V. Hardman and A. J. Lang. 2,643,157, June 23.
Broom head and means for removably attaching it to a handle. K. Erik. 2,642,610, June 23.
Brush and soap holder, Combined. H. L. Mills. 2,642,603, June 23.
Brush trimming and bending machine. T. Marks and J. and L. M. Jimenez. 2,643,156, June 23.
Brushes, Making molded. N. T. Baldanza. 2,643,158, June 23.
Buckle. H. S. van Buren, Jr. 2,642,641, June 23.
Cabinet: *See*—
Expansible cabinet.
Cabinet for dispensing sheet material. F. L. Broeren, A. S. Kruger, and V. C. Jones. 2,643,070, June 23.
Cable armor cutter. Z. O. St. Pailey. 2,642,651, June 23.
Cable reel and lagging. F. R. Schaefer and R. W. Emery. 2,642,900, June 23.
Cable release, Overload. H. H. Hansen. 2,643,134, June 23.
Cable wiper and splash shield, Combined. L. B. Collins and C. A. Langstaff. 2,642,941, June 23.
Cake inserter. E. L. Davis, Jr., and M. E. Kalen. 2,642,655, June 23.
Calibrating apparatus. L. R. Philpott. 2,643,288, June 23.
Camera, Photoreproduction. L. Linzell. 2,643,187, June 23.
Cane. G. A. Henderson and W. H. Winborne. 2,642,884, June 23.
Car: *See*—
Refrigerator car.
Wood cellular laminated railway car.
Card file box. M. D'Heilly. 2,642,876, June 23.
Carpet sweeper with brush cleaning fingers. H. C. Lilly. 2,642,617, June 23.
Carriage control device for bacon slicing machines. O. Garapolo. 2,642,910, June 23.
Carriage return mechanism for business machines and the like, Motor-driven. E. O. Roggenstein. 2,642,976, June 23.
Carrier for automobile tops, Luggage. T. G. Hare. 2,643,040, June 23.
Carton for commodities and premium display. C. C. Freeman. 2,642,988, June 23.
Carton taping apparatus and method. C. W. Steckling. 2,643,016, June 23.
Case: *See*—
Spectacle case.
Case. J. P. Reis. 2,642,913, June 23.
Case and bottom frame therefor, Milk bottle. J. F. Maurer. 2,643,018, June 23.
Case filling machine, Automatic. G. J. Okulitch and I. V. Zoxulin. 2,643,043, June 23.
Cashbox, Subdivided. W. H. Whitcomb. 2,642,985, June 23.
Casting machine, Pottery. P. I. Robinson. 2,642,644, June 23.
Cathodically descaling and electrode therefor. G. C. Cox. 2,643,222, June 23.
Centrifugal machine. G. W. Tompkin. 2,642,997, June 23.
Chain: *See*—
Motor vehicle wheel traction chain.
Change speed device, Rotatable. C. L. Cummings. 2,642,756, June 23.
Character figure, Smoking. G. H. Messmore. 2,642,606, June 23.
Chase and form cooler. H. E. Greenburg and O. H. Olson. 2,642,725, June 23.
Cheese press. N. J. Peters. 2,642,797, June 23.
Cigarette holder. F. A. Quiroz. 2,642,879, June 23.
Circuit checking equipment, Electric. W. J. Lawrence. 2,643,370, June 23.
Circuits, Protective. E. R. Shenk and A. Liguori. 2,643,359, June 23.
Clamp: *See*—
Pipe repair clamp. Single-leaf spring clamp.
Quickly operable conduit clamp.
Clamp and bracket, Multiple utility. J. A. Humphreys. 2,643,046, June 23.
Clamping ring closure. A. C. Giles. 2,643,150, June 23.
Classifier, Centrifugal. J. M. Davis. 2,642,991, June 23.
Cleaner: *See*—
Dust mop cleaner.
Reverse air flow convertible household vacuum cleaner.
Cleaning device with sponge covered cleaning roller, Portable floor. R. P. Saffioti. 2,642,601, June 23.
Clip for sheet material. D. C. Larrabee. 2,642,638, June 23.
Clipper and mower attachment for chain saws. E. A. Hayden. 2,642,901, June 23.
Clipper and stripper, Wire. C. H. Arnt and W. A. Bowman. 2,642,657, June 23.
Clock. L. Prins. 2,642,713, June 23.
Clock, Electric. P. R. Contant and R. H. Sullivan. 2,642,714, June 23.
Clock, Pendulum actuated electric. L. Robert. 2,642,715, June 23.
Closed cycle elastic fluid compressor-turbine plant and control thereof. D. H. Mallinson. 2,642,721, June 23.
Closure for containers. J. C. De Shazor, Jr. 2,642,911, June 23.
Clutch: *See*—
Latch released positive Overload released fluid clutch. clutch.
Clutch piston safety valve. G. E. Flinn. 2,642,844, June 23.
Clutch structure, Propeller. M. F. Snyder. 2,642,730, June 23.
Coat hanger. G. M. Clover. 2,643,037, June 23.
Coating method and apparatus therefor. E. E. Chadsey, Jr., P. J. Clough, and P. Godley, 2nd. 2,643,201, June 23.
Coaxial attenuator assembly, Adjustable. J. W. Shaw. 2,643,204, June 23.
Coil for tankless water heaters. A. J. Donohue. 2,642,849, June 23.
Coin sorter control mechanism. A. R. Buchholz. 2,642,881, June 23.
Coin sorting and counting machine. A. R. Buchholz. 2,642,882, June 23.
Composition for treating cloth materials. M. P. Monroe. 2,643,193, June 23.
Compositions for protection of metals against corrosion. A. Wachter and N. Stillman. 2,643,176, June 23.
Computer for converting electrical code into shaft rotation. L. B. Hallman, Jr. 2,643,355, June 23.
Concrete building form. J. B. Johnston. 2,642,646, June 23.
Condensation products of pentaerythritol and glyoxal, Preparing. E. L. Kropa and W. M. Thomas. 2,643,236, June 23.
Condenser: *See*—
Two-stage condenser. Three-stage condenser.
Condition responsive device. A. Wellman. 2,643,154, June 23.
Conduit, Sectional. C. P. and A. J. Simmons. 2,642,899, June 23.
Connector: *See*—
Outlet box cable connector.
Container: *See*—
Heat insulating container.
Container closure, Tamperproof. J. W. Soffer. 2,643,015, June 23.
Container with slip resistant coating, Paper. I. V. Wilson. 2,643,048, June 23.
Control casing and manufacture thereof. G. W. Acock, H. G. Suppers, and H. W. Voorhees. 2,642,898, June 23.
Control for closed vessels. D. B. Bell. 2,643,025, June 23.
Control system for fluid pressure actuated propeller clutches. R. C. Brooks. 2,642,972, June 23.
Conveyer apparatus and supporting mechanism therefor. S. M. Mercier. 2,642,984, June 23.
Conveyer feeding and proportioning apparatus, Shaker. D. Soucek. 2,642,980, June 23.
Conveyer, Grain. D. L. Brackett. 2,643,159, June 23.
Conveyer with swiveling means, Articulated. C. E. Andershock. 2,642,982, June 23.
Conveyer with take-up means, Extensible. F. A. Lindgren. 2,642,981, June 23.
Cooker, Electric frankfurter. I. Spiess and L. B. Simon. 2,642,794, June 23.
Cooler: *See*—
Chase and form cooler.
Copolymers and copolymer emulsions of salts of monoalkyl esters of maleic acid. W. K. Wilson. 2,643,245, June 23.
Copyholder, Line-spacing. R. Funk. 2,642,841, June 23.
Corrosion inhibition. A. Wachter and N. Stillman. 2,643,178, June 23.
Couch with swingably mounted back rest or pillow support. J. Pillero. 2,642,585, June 23.
Counter for strap sandals, Adjustable. M. M. Yates. 2,642,677, June 23.
Coupling: *See*—
Pivoted detent pipe coupling. Shaft coupling.
Coupling. A. T. Schelwer. 2,643,140, June 23.
Cover: *See*—
Bathtub cover. Hopper seat cover.
Golf ball cover.
Cover for cooking vessels, Vented. R. B. Cronheim. 2,643,024, June 23.

Crankshaft for reciprocating machinery, Built-up. C. S. Sundbom and C. V. Winquist. 2,643,145, June 23.
Crepe rubber composition, Nonskid. C. F. Backus. 2,643,234, June 23.
Cross rolling mill. F. B. Abramsen. 2,642,763, June 23.
Cup, Adjustable measuring. S. L. Thomas. 2,642,744, June 23.
Cupola melting of cast iron. S. F. Carter, Jr. 2,643,185, June 23.
Curb signal. F. J. Aves. 2,642,830, June 23.
Curing glycidyl polyethers of dihydric phenols with sulfonic acids. H. Dannenberg. 2,643,243, June 23.
Curtain edge construction. H. Sherman. 2,642,577, June 23.
Cushion support assembly. A. J. Bellale. 2,642,931, June 23.
Cutter: *See*—
  Cable armor cutter.
  Detachable root cutter.
Cutter and breaker bar for lawn mowers. L. N. and A. Smith. 2,642,711, June 23.
Cutter device for mining machines, Rotary. G. C. McGowan. 2,643,106, June 23.
Cutting device of the miss-cut type. K. W. Hallden. 2,642,937, June 23.
Cylinder gauge. A. T. Olson. 2,642,665, June 23.
Cylinder unit for hydraulic systems, Compound master. C. E. Deardorff. 2,642,720, June 23.
Data transmission system. A. B. Jacobsen. 2,643,333, June 23.
Deserating a suspension of cellulosic fibers. C. L. Clark, C. Vicario, C. J. Lyons, J. A. Smith and W. W. Hickey. 2,642,950, June 23.
Debarker and chipper, Log. J. H. Pearce. 2,642,904, June 23.
Decoding system, Pulse signal. R. E. Baker and F. D. Covely. 2,643,368, June 23.
Defining plastic masses, Method of and apparatus for. C. W. Vogt. 2,642,620, June 23.
Dehydrator. O. C. Norton. 2,642,951, June 23.
Desk, Typewriter pedestal. C. E. Wade. 2,643,167, June 23.
Detachable root cutter. G. W. Peacock, Sr. 2,642,791, June 23.
Detergent in cake form, Nonsoap synthetic. W. M. Walters. 2,643,229, June 23.
Determining bran in cereal flour. R. A. Larkin. 2,642,745, June 23.
Device and process for converting hydrocarbons. R. A. Findlay. 2,643,216, June 23.
Device for checking the sale of tickets. C. L. Louthan. 2,643,168, June 23.
Device for detecting and determining refraction anomalies of the human eyes. G. Quist. 2,642,771, June 23.
Device for insulating a jack. E. G. Johansson. 2,643,362, June 23.
Device for loading sheets or plates onto conveyers. J. W. Kenyon. 2,643,009, June 23.
Device for piercing ears. J. A. Parker. 2,642,872, June 23.
Die: *See*—
  Forming die.
Di-quaternary salts of 4-amino-6-(2'-amino pyrimidyl-4'-amino) quinazoline and preparing same. F. H. S. Curd and E. H. P. Young. 2,643,253, June 23.
Direction signal switch. C. W. Lincoln, P. B. Zeigler, J. J. Verbrugge and J. F. Sloan. Direction signal switch. 2,643,308, June 23.
Discharge heads and handle supports for barrel pumps, Producing. E. P. Sundholm. 2,642,653, June 23.
Disengagement of gases from fluent solid particles. R. M. Shirk. 2,643,161, June 23.
Dispenser: *See*—
  Liquid dispenser.
Dispenser and distributor, Powder. R. F. Berndt. 2,643,032, June 23.
Dispenser for collapsible tubes having a slotted roller and a rounded edge cooperating therewith. J. S. Clark. 2,643,028, June 23.
Dispenser for ejecting and severing gummed tape. L. H. Semlee. 2,642,936, June 23.
Dispensing system for airplanes, Gasoline. A. E. Watts, Jr., and J. R. Parker. 2,642,957, June 23.
Display support for containers. H. Hinkle. 2,643,082, June 23.
Distilling method. J. Loumiet et Lavigne. 2,643,220, June 23.
Dock, Loading. I. V. K. Hott and W. L. Simonton. 2,643,010, June 23.
Doll with dress ensemble. M. B. Haskell. 2,642,697, June 23.
Door construction, Refrigerator. L. A. Philipp. 2,642,630, June 23.
Door frame. J. Sylvan. 2,642,966, June 23.
Door service guard. L. Peters. 2,642,629, June 23.
Dough conditioning apparatus. H. T. Hunter and B. W. Wilson. 2,642,860, June 23.
Drill press attachment. D. N. Goldberg. 2,642,760–1, June 23.
Drilling apparatus, Self-powered rotary. H. J. Ogorzaly and B. W. Sewell. 2,643,087, June 23.
Drilling equipment and well pipe cleaner. C. B. Reynolds. 2,642,942, June 23.
Drilling method and apparatus. R. G. Peter. 2,643,094, June 23.
Dry cell. A. W. Simpson. 2,643,278, June 23.
Dual production zone pump. C. A. Morris and J. D. Exner. 2,642,803, June 23.
Duckbill sieving apparatus. W. F. Frye. 2,642,983, June 23.
Duck call. C. D. Green. 2,642,699, June 23.
Dust mop cleaner. J. A. Jones. 2,642,600, June 23.
Dynamoelectric machine. K. M. Feiertag. 2,643,351, June 23.
Dynamoelectric machine magnetic core member. F. W. Merrill. 2,643,350, June 23.
Elastic fluid turbine support. T. W. F. Brown and H. G. Yates. June 23.
Electric arc welding. P. C. van der Willigen. 2,643,319, June 23.
Electric control system for hydraulic-step drilling machines. A. T. Roys. 2,642,847, June 23.
Electric heater. W. R. Tuttle. 2,643,317, June 23.
Electric translating apparatus. J. J. Murray, Jr. 2,643,358, June 23.
Electrical contactor roll for electroplating machines. A. C. Frankwich. 2,643,303, June 23.
Electrodeposited composite article and making the same. G. W. Ahrens. 2,642,654, June 23.
Electrodeposition of phosphorus-nickel and phosphorus-cobalt alloys. A. Brenner, D. E. Couch, and E. K. Williams. 2,643,221, June 23.
Electron discharge device and circuits for neutralized coaxial line amplifiers. E. M. Bradburd. 2,643,302, June 23.
Electronic equipment cooling means. A. D. Greene. 2,643,282, June 23.
Electroplating rack. H. F. Jones and H. R. Colby. 2,643,225, June 23.
Electrostatic voltage power generator. W. P. Smith. 2,643,349, June 23.
Elevator, Rotary slip. C. Ware. 2,642,642, June 23.
End connection for push-pull cables. J. F. Morse. 2,643,146, June 23.
Engine fuel control for internal expansion engine fuel systems. D. N. Walker. 2,642,719, June 23.
Engine mounting and control system. E. C. Kiekhaefer. 2,642,829, June 23.
Engine with supercharging injection pump, Two-stroke cycle. D. Elwert and A. Schnürle. 2,642,854, June 23.
Epichlorhydrin-sulfonamide resins. J. K. Simons. 2,643,244, June 23.
Erythrocytometer. R. P. Moore. 2,642,769, June 23.
Exercising device, Grip type. J. M. Spinks. 2,643,123, June 23.
Expansible cabinet. C. A. Troutman. 2,643,083, June 23.
Eye protective device. W. A. Stewart. 2,642,568, June 23.
Facsimile stylus carrier and drive system. A. G. Cooley. 2,643,174, June 23.
Fan and awning construction, Combination. C. G. Sherman and G. E. Gwens. 2,643,053, June 23.
Fastener: *See*—
  Trunk latch type fastener.
Feeder: *See*—
  Animal feeder.
  Livestock feeder.
Fertilizer distributor. J. R. Lowry. 2,643,031, June 23.
Fiberboard forming press with loader and unloader. R. Chapman. 2,642,782, June 23.
Filing drum. R. P. Schoilfield. 2,642,875, June 28.
Film spool and mold for making the same. H. H. Kugel. 2,643,072, June 23.
Filter: *See*—
  Air filter.
Firing mechanism for automatic guns. H. Trevaskis. 2,642,779, June 23.
Fishing bobber, Illuminated floating. V. R. Harshman. 2,642,691, June 23.
Fishing device. B. Westerfield. 2,642,694, June 23.
Fishing lure, Artificial. C. M. Burns. 2,642,695, June 23.
Flange tensioning and joining device for strap ends. W. A. Meighan and T. L. Hume. 2,642,639, June 23.
Fishing rod holder. E. Soenksen. 2,642,600, June 23.
Flow control device. F. J. Cantalupo, E. P. De Craene, E. G. Schmidt, C. W. Yant, and R. P. Setka. 2,642,806, June 23.
Flow stop, Variable minimum. D. R. Pearl. 2,642,718, June 23.
Fluid apparatus. G. B. Linderman. 2,642,807, June 23.
Fluid pressure control apparatus. R. R. Stevens. 2,642,969, June 23.
Fluid pressure control apparatus for free piston machines. R. T. Whitney. 2,642,717, June 23.
Fluid spring. I. D. Smith. 2,643,112, June 23.
Fluid-type shale retorting. L. A. Nicolai. 2,643,218, June 23.
Fluidized distillation of oil-shale. J. W. Carr, Jr., L. I. Griffin, Jr., and E. W. S. Nicholson. 2,643,219, June 23.
Fluorescent alkoxy benzoyl derivatives of 4,4' diamino stilbene-2,2' disulfonic acid and detergent compositions containing same. L. N. Savidge and R. Thomas. 2,643,197, June 23.
Fluorescent compound and imparting fluorescent effects to materials. L. N. Savidge and R. Thomas. 2,643,198, June 23.

Fluorocarbon-azomethines. W. H. Pearlson and L. J. Hals. 2,643,267, June 23.
Focusing apparatus for reflex photographic cameras. F. W. Scholkemeier. 2,642,790, June 23.
Force bridge, Automatically balanced. J. Sorteberg. 2,643,055, June 23.
Forced air flow air heating furnace. L. N. Walter. 2,642,857, June 23.
Forceps. J. Thuerig. 2,642,871, June 23.
Form for concrete constructions. C. A. Commet and C. F. Merriman. 2,642,645, June 23.
Forming a layer of metallic copper on copper oxide. P. Hersch. 2,643,199, June 23.
Forming a wet cathode portion. H. M. Zimmerman. 2,642,628, June 23.
Forming artificial board. G. E. Tower. 2,643,186, June 23.
Forming die. J. A. Exline, Jr. 2,642,916, June 23.
Frame: *See*—
  Door frame.
  Mortar strip positioning frame.
Friction drive, Variable ratio. H. J. Wood. 2,642,749, June 23.
Front apron adjusting mechanism for carry-type scrapers. H. A. Wagner. 2,642,681, June 23.
Fuel control. R. W. Johnson. 2,643,061, June 23.
Fuel supply apparatus for internal-combustion engines. M. J. Berlyn and J. J. Broderick. 2,642,806, June 23.
Furnace: *See*—
  Forced air flow air heating furnace.
Furniture, Store wall. A. Vanderveld and C. F. Logie. 2,643,170, June 23.
Fuse, Acceleration switch delayed arming. D. H. Gleason. 2,642,801, June 23.
Fuse setting apparatus. E. F. Campbell, G. W. Kinzelman, and A. J. Stanton. 2,642,778, June 23.
Galvanizing apparatus. W. S. Pearson. 2,642,834, June 23.
Garment. H. S. Hellbronner. 2,642,570, June 23.
Garment hanger. M. M. Schiffman. 2,643,036, June 23.
Garment hanger support. L. M. Morrison. 2,643,000, June 23.
Garment, Maternity. D. S. Prescott. 2,642,575, June 23.
Gas discharge transmission arrangement. L. Goldstein and N. L. Cohen. 2,643,297, June 23.
Gas lift valve. L. L. Cummings. 2,642,880, June 23.
Gas receiver-liquid separator unit. J. Le Valley. 2,642,954, June 23.
Gas separation by adsorption. R. L. Huntington and L. S. Reid. 2,642,955, June 23.
Gas turbine apparatus. W. J. Durkin and D. N. Arvidson. 2,643,085, June 23.
Gasoline cap signal. J. H. Moye. 2,642,831, June 23.
Gate: *See*—
  Stock restraining gate.
Gate construction, Electrified. A. H. Meyer, Jr. 2,642,683, June 23.
Gauge: *See*—
  Cylinder gauge.
  Hole gauge.
  Hydraulic valve gauge.
  Ionization gauge.
  Screw-actuated micrometer gauge.
Gauge. W. K. Dow. 2,642,670, June 23.
Gauge block and holder. L. Dorel. 2,642,668, June 23.
Gear grinding machine. O. E. Staples. 2,642,702, June 23.
Gel modifier for oils and preparing it. D. C. Bond and M. Savoy. 2,643,228, June 23.
Generator: *See*—
  Electrostatic voltage power generator.
  Universal contour generator.
Glue applying apparatus for lumber gluing machine. V. J. Winkel. 2,642,835, June 23.
Glue, Liquid. L. K. Fencil. 2,643,194, June 23.
Golf ball cover. R. D. Juve. 2,643,125, June 23.
Governing power stations, Means for. K. Almström, A. Garde, S. E. Hedström, and E. Brodersen. 2,643,345, June 23.
Governor for compression ignition engines, Pneumatic. P. G. Vanni. 2,642,855, June 23.
Grille, Adjustable ventilator. C. A. Reichelderfer. 2,642,792, June 23.
Grinder, Garbage. W. Lamb. 2,643,066, June 23.
Grinding wheel-speed control. C. G. Flygare and C. C. Alvord. 2,642,703, June 23.
Guard for the eyes, Sun. H. A. and H. E. Triebes. 2,642,569, June 23.
Guitar and sling combination. S. R. Sottile. 2,643,039, June 23.
Gun swivel. J. L. Cline. 2,642,689, June 23.
Hacksaw assembly. H. H. Faubion. 2,642,906, June 23.
Hair color-rinse concentrate. M. J. Den Beste. 2,643,211, June 23.
Hair guard. D. T. Corette. 2,642,880, June 23.
Halogen-promoted oxidation. F. R. Augustine. 2,643,269, June 23.
Halogenated compounds. S. D. Ross. 2,643,270, June 23.
Halo-substitution of organic compounds. A. E. Lacomble, G. W. Hearne, and D. S. La France. 2,643,272, June 23.
Handgrip attachment for bathtubs. I. G. Loe. 2,642,381, June 23.
Handle: *See*—
  Retractable tool handle.
Handle mounting for window-cleaning devices, Adjustable. J. J. Hruska. 2,642,609, June 23.
Hanger: *See*—
  Coat hanger.
  Garment hanger.
Hanger for supporting elongated objects. R. G. Pitt. 2,643,079, June 23.
Hat bodies, Method of and means for making. G. T. Birdsall. 2,643,034, June 23.
Headrest for automobiles. R. L. Rising. 2,642,927, June 23.
Heat exchanger. H. Bonnaud. 2,643,100, June 23.
Heat exchanger. R. Rigby and J. C. S. White. 2,643,098, June 23.
Heat exchanger, Regenerative. A. T. Bowden, W. Hrynisak, and F. Kolb. 2,643,097, June 23.
Heat insulating container. E. Freedman. 2,643,021, June 23.
Heat interchange apparatus. F. R. Bell. 2,642,897, June 23.
Heater: *See*—
  Electric heater.
  Vehicle heater.
  Turbine heater.
Heater and draft shield, Gas fueled watering trough. C. A. Gunther and C. R. Vittetoe. 2,642,934, June 23.
Heater and operating system therefor, Liquid fuel burning. S. J. Budiane. 2,642,933, June 23.
Heater for hot beverage vending machine, Liquid. E. J. Lime and C. S. Hedges. 2,643,322, June 23.
Heater jacket, Water. F. A. McFerran. 2,642,851, June 23.
Heating apparatus. W. Hodgins. 2,643,060, June 23.
Heating device, Electric. H. H. Goldstaub. 2,643,324, June 23.
Heating device. W. I. E. Kamm, W. F. Krautter, and K. Stalger. 2,643,107, June 23.
Heating device, Fuel burning air. E. H. Plesset, W. R. Elswick, and P. A. Palmer. 2,642,858, June 23.
Heating element. A. Pfenninger, Jr. 2,643,320, June 23.
Heating plant. R. W. De Lancey. 2,642,850, June 23.
Heating system, Fireplace. N. T. Brown. 2,642,859, June 23.
Heating the interior of plastic preforms. J. W. Mann and G. F. Russell. 2,642,627, June 23.
Helmet for protection against low-temperatures. V. K. Eloranta. 2,642,574, June 23.
Hemmer. H. Sherman. 2,642,827, June 23.
High-frequency electron discharge tube system. G. Diemer. 2,643,332, June 23.
High-frequency energy dividing apparatus. W. W. Hansen. 2,643,296, June 23.
High viscosity index lubricating oils, Production of. A. T. Watson and S. H. Hastings. 2,643,217, June 23.
Higher secondary-alkyl orthosilicates. C. R. Morgan. 2,643,263, June 23.
Hinged closure, Interlocked. J. A. O'Reilly. 2,643,047, June 23.
Hoist attachment for tractors. L. Paulette. 2,643,092, June 23.
Holder: *See*—
  Cigarette holder.
  Fishing rod holder.
Holder for roasting frankfurters, corn on cob, and the like. A. C. La Bore. 2,642,796, June 23.
Holder for toilet paper and paper towels. A. F. Carlin. 2,643,069, June 23.
Holding device for fishhooks, etc., Adjustable. C. E. Keater. 2,642,767, June 23.
Hole gauge. W. J. Lewis and W. H. Uts. 2,642,672, June 23.
Hopper and like containers. A. S. Beech. 2,642,979, June 23.
Hopper seat cover. J. W. Patton. 2,642,582, June 23.
Hose drain for floating roof tanks. F. D. Moyer. 2,643,023, June 23.
Housing for electrical apparatus. E. Simon, F. W. Thomas, and E. H. Burkart. 2,642,920, June 23.
Hydraulic apparatus. E. H. Born and L. E. Bonnette. 2,642,809, June 23.
Hydraulic valve gauge. J. F. Suma. 2,642,673, June 23.
Hydraulically operated device for controlling the position of implements carried by tractors. A. L. A. Morgen. 2,642,846, June 23.
Hydrogel beads for drying, Preparation. H. Erickson. 2,643,231, June 23.
Icebreaker mill with roll and adjustable breaker plate. R. T. Clawson. 2,643,065, June 23.
Ice rink resurfacing machine. F. J. Zamboni. 2,642,679, June 23.
Ignition system. J. F. Putnam. 2,643,284, June 23.
Ignition system and generator therefor. S. E. Miller. 2,643,274, June 23.
Illuminating device for graphic layout tables. J. F. Knapp. 2,643,326, June 23.
Imides as stabilizers for polysulfone resins. J. F. Howe and J. E. Wicklatz. 2,643,237, June 23.
Implement for use in laying square tile. W. J. Schell, Jr. 2,642,674, June 23.
Improvements in aircraft of high aspect ratio. M. L. Hurel. 2,643,076, June 23.
Incinerator. C. C. Reynolds. 2,642,826, June 23.
Incubator, Fish bait. C. A. Brooks. 2,642,836, June 23.
Indexing chuck. F. Hunziker and L. B. Courtot. 2,643,132, June 23.

Indicator: *See*—
Monogrammic indicator. Universal pH indicator.
Spool dimension indicator.
Indicator for fishing lines, Signal. G. F. Sleeger. 2,643,371, June 23.
Information collecting system. H. R. Reiss. 2,643,172, June 23.
Inhibiting corrosion of metals. W. B. Hughes and B. Heinze. 2,643,227, June 23.
Insert type thermostatic-expansion valve. F. Y. Carter. 2,642,724, June 23.
Instantly reversible motor. L. D. Clark. 2,643,357, June 23.
Instrument for treating prostate glands. W. B. Keeling. 2,642,874, June 23.
Instrument pointer actuating mechanism and adjustment. H. Hermanny. 2,642,743, June 23.
Insulating filler composition. L. Weber, Sr. 2,643,193, June 23.
Insulation garment and fabric, Cold weather. W. L. Brown. 2,642,571, June 23.
Insulator, Electrical. G. H. Jonker and P. B. A. Schilperoord. 2,643,192, June 23.
Insulator tie. E. C. Carlson. 2,643,283, June 23.
Interchangeable letter sign. J. W. E. Simpson. 2,642,686, June 23.
Interlock, Mechanical. M. H. Sheldon. 2,642,753, June 23.
Interlocking shockproof electrical plug. B. F. Nauslar. 2,643,364, June 23.
Internal gauge. E. W. Graham and W. O. Mintel. 2,642,071, June 23.
Ionization gauge. K. M. Simpson. 2,643,342, June 23.
Irrigation ditch block. G. Reismann. 2,642,723, June 23.
Isocyanate dimers as color forming intermediates. O. Stallmann and E. O. Langerak. 2,643,250, June 23.
Jig. E. Janowski. 2,642,918, June 23.
Joint: *See*—
Oblique rail joint. Railroad joint.
Jointer for circular saws. O. C. Styles. 2,642,758, June 23.
Key-in-knob lock. H. Quigley. 2,642,735, June 23.
Key locked slidable bolt fastening for attaché and suitcases and the like. C. W. Cheney. 2,642,734, June 23.
Kinescope, Color. L. W. Parker. 2,643,352, June 23.
Knitted article of hosiery. P. L. Thurston. 2,642,732, June 23.
Last. W. P. Field. 2,642,597, June 23.
Latch released positive clutch. O. E. Szekely. 2,642,970, June 23.
Latex foam, Making. B. Bennett and G. H. McFadden. 2,643,233, June 23.
Lathe control mechanism. R. H. Shadrick. 2,642,649, June 23.
Lawn mower and actuating means therefor. E. L. Boyce and M. D. Burrows. 2,642,709, June 23.
Lens, Variable power bifocal. P. A. K. Boeder. 2,642,776, June 23.
Life preserver and illuminating means therefor. C. R. Craver. 2,642,591, June 23.
Lifting boom for ladle cranes. R. L. Wingenroth. 2,643,004, June 23.
Line making attachment for typewriters. E. G. Mosher. 2,642,977, June 23.
Liquid dispenser. R. B. Miscione. 2,643,033, June 23.
Liquid feeding apparatus. D. B. Bell. 2,642,886, June 23.
Liquid feeding apparatus. D. B. Bell. 2,643,103, June 23.
Live line stick with said shield. P. J. Bott. 2,643,281, June 23.
Livestock feeder. E. E. Fields. 2,642,838, June 23.
Load supporting and clamping arms for hand trucks with tiltable carrier frames. R. Jackson. 2,643,013, June 23.
Loading base. R. E. Spring. 2,643,081, June 23.
Lock: *See*—
Key-in-knob lock.
Locker, Clothes. E. C. Sterba. 2,643,171, June 23.
Locking device for telescopic structures. Å T. Bergqvist. 2,643,143, June 23.
Loop control for toroidal coil winding. H. E. Cradduck. 2,643,067, June 23.
Lubrication of steam cylinders. S. C. Vaughn. 2,642,722, June 23.
m-Dinitrobenzene, Preparation of. G. E. Taylor and L. P. Busse. 2,643,271, June 23.
Machine for applying seeds to dough forms. C. Hettinger. 2,642,833, June 23.
Machine for handling greeting cards or other sheetlike articles. N. H. Morrison. 2,643,119, June 23.
Machine for making food products. J. E. Birdsall. 2,642,819, June 23.
Machine for making paper containers. B. A. Wittkuhns, H. G. D. Nutting, and G. F. Hill. 2,642,784–5, June 23.
Machine for operating on shoes. E. S. Kant. 2,642,596, June 23.
Machine tool. R. H. Clark. 2,642,650, June 23.
Magazine-conversion unit for firearms. M. M. Johnson, Jr. 2,642,688, June 23.
Magnesium oxide or hydroxide, Making relatively pure. G. G. Megrail. 2,643,181, June 23.
Magnetic holding device. J. C. McPherson. 2,642,909, June 23.
Magnetic transducing apparatus. A. L. W. Williams. 2,643,071, June 23.
Mailbag catcher. C. H. Nelson. 2,643,101, June 23.
Making cake center frozen confections in twin molds. C. O. Lund. 2,642,820, June 23.
Mass spectrometer ion source. W. T. Leland. 2,643,341, June 23.
Massaging attachment for toothbrushes. A. J. Ferrari. 2,642,604, June 23.
Measuring and cutoff machine. A. H. Long. 2,642,663, June 23.
Measuring device, Torque. H. M. Stephenson and K. M. Felertag. 2,642,740, June 23.
Measuring device, Transient force. F. G. du Pont. 2,642,741, June 23.
Mechanical movement in hydraulic motors. L. P. Widmer. 2,642,748, June 23.
Mercury sealed valve. R. D. Harrison and H. G. Hall. 2,642,891, June 23.
Method involved in the apparatus for mechanically applying seeds to dough forms. C. Hettinger. 2,642,821, June 23.
Microtome High-speed. R. G. Picard and J. H. Reisner. 2,642,774, June 23.
Microwave Wheatstone bridge. B. A. Lippmann and J. S. Schwinger. 2,643,295, June 23.
Mill: *See*—
Cross rolling mill.
Mirror apparatus, Rearview. D. E. Reed. 2,643,084, June 23.
Model vehicle and guide rail therefor. H. C. Baigent. 2,642,815, June 23.
Modulated pulse remote control. T. M. Manley and R. P. Cherpeski. 2,643,369, June 23.
Mold for foamed latex. J. T. Marvin. 2,642,624, June 23.
Monogrammic indicator. J. P. Handley. 2,642,685, June 23.
Monorail system, Overhead. A. F. Anjeskey. 2,642,814, June 23.
Mortar strip positioning frame. H. M. Peper and K. H. Tengstedt. 2,642,736, June 23.
Motor: *See*—
Instantly reversible motor.
Motor vehicle wheel traction chain. E. E. Jellison. 2,642,915, June 23.
Mounting for aircraft engine cowls. S. E. Hinkle. 2,642,853, June 23.
Mounting of cathode-ray tubes for television reception. M. J. Morris. 2,643,373, June 23.
Mounting of turbine blades. A. Thomas and L. R. Fellows. 2,643,086, June 23.
Movie film feeder with simultaneous unwinding and rewinding action. H. S. Burson, Sr. 2,643,118, June 23.
Multilayer magnetic record member. O. Kornei. 2,643,130, June 23.
Nail polish applicator, Charge ejecting. D. J. Bozzalla. 2,642,607, June 23.
Necktie. L. Tobias. 2,642,572, June 23.
Needle threader, Universal. J. S. Kaho. 2,643,038, June 23.
Negative electrode for alkaline storage batteries and manufacturing the same. J. Salauze. 2,643,276, June 23.
Nitric acid pickling. E. B. Mancke. 2,643,204, June 23.
Nitrogen containing compounds from ammonia and olefins, Production of. J. W. Teter. 2,643,266, June 23.
Nitrogen-containing polyethers and curing glycidyl polyethers to resinous products. E. C. Shokal, H. A. Newey, and T. F. Bradley. 2,643,239, June 23.
Nonblocking film of rubber hydrochloride, Making. D. R. Burton and H. W. Wilson. 2,643,202, June 23.
Oblique rail joint. G. A. Standfast. 2,643,064, June 23.
Obtaining crystalline salts of streptomycins. L. J. Heuser. 2,643,249, June 23.
Oil recovery process. R. L. Smith and K. M. Watson. 2,642,943, June 23.
Oil recovery stand. O. K. Lyon. 2,643,030, June 23.
Optical pyrometer. R. Hase. 2,642,772, June 23.
Organic compounds of titanium. C. O. Bostwick. 2,643,262, June 23.
Oscillator, Triggered push-pull. R. B. Lawrance. 2,643,340, June 23.
Outlet box cable connector. E. C. Schesser. 2,643,136, June 23.
Outlet for grease separators and the like. H. G. Brenner. 2,642,995, June 23.
Overload released fluid clutch. L. D. Hagenbook. 2,642,971, June 23.
Overshoe liner. E. A. Fuls. 2,642,678, June 23.
Ozonizers. P. Niccoli. 2,643,224, June 23.
Package for shipping and storing a conductive rubber heating element and making same. C. J. Ford. 2,643,206, June 23.
Packing. M. Funkhouser and P. J. Long. 2,643,147, June 23.
Packing and end thrust unit for conveyers. R. B. Maas. 2,643,164, June 23.
Pad for hosiery garters, Garment. M. Marchese. 2,642,578, June 23.
Pail base for grease containers with cutter and interlock means for said containers, Grease gun loading. E. P. Sundholm. 2,643,044, June 23.
Pallet, Disposable. L. E. Vogel. 2,643,080, June 23.
Pan, Freezing. A. J. Frei. 2,642,727, June 23.
Panel board neutral bar. W. Robertson and L. W. Higgins. 2,643,363, June 23.
Panel for prefabricated houses. A. D. Roush, O. M. Stolz, and J. D. Yeck. 2,642,968, June 23.

Paper machinery. W. D. Croake and B. D. Ellis. 2,642,781, June 23.
Paper tearing mechanism. K. F. Oldenburg and F. N. Schwend. 2,642,939, June 23.
Pecan cracker. D. C. Landgraf. 2,642,908, June 23.
Pen, Fountain. D. Kahn and K. Weisser. 2,642,842, June 23.
Perforating and slotting punch. K. J. Braun. 2,642,940, June 23.
Phonomotor or a small-type electric motor for phonographs. S. Akai. 2,642,750, June 23.
Phosphorus-containing lubricating oil additives. A. H. Matuszak and C. A. Weisel. 2,643,261, June 23.
Photographic slide binder. G. W. Mack. 2,643,017, June 23.
Photographing machine, Document. A. Briechle. 2,642,773, June 23.
Photovoltaic cell. E. E. Falkenthal. 2,643,277, June 23.
Pilot for mobile craft, Automatic. A. M. MacCallum and C. Russell. 2,643,354, June 23.
Pipe handler, Automatic. W. R. King. 2,643,006, June 23.
Pipe handling apparatus. B. W. Gray. 2,643,007, June 23.
Pipe repair clamp. T. L. Smith. 2,643,137, June 23.
Pipe swab. H. G. Kelly. 2,642,602, June 23.
Piperazine compounds and a new type of compound produced thereby, Preparing. H. G. P. J. Morren. 2,643,255, June 23.
Piperazine compounds and making same. H. G. P. J. Morren. 2,643,254, June 23.
Piston cushioning apparatus. R. R. Stevens. 2,642,845, June 23.
Pivoted detent pipe coupling. M. Jacobs and P. F. Dragon. 2,643,138, June 23.
Planing attachment for jointers. E. L. Carey. 2,642,902, June 23.
Plant identification tag and making and applying same. J. L. Watts. 2,642,684, June 23.
Planter, Potato. J. E. Osborne. 2,642,909, June 23.
Plasticizing machine. G. S. Bohannon. 2,642,623, June 23.
Plate assembly for electrostatic precipitators, Collecting. G. F. Landgraf. 2,642,952, June 23.
Plate holding mechanism for stereotype printing plates. J. O. Crabtree. 2,642,800, June 23.
Pliers, Fisherman's. T. R. Zupancic. 2,643,151, June 23.
Plug: *See*—
Interlocking shockproof electrical plug.
Pocket structure for nurses' uniforms and other garments. E. Kotkes. 2,642,576, June 23.
Pocketed display rack. H. J. Rubenstein. 2,643,002, June 23.
Pole gaining machine. R. L. Efurd, Jr., and E. A. Efurd. 2,642,903, June 23.
Polishing and sanding device. J. L. Jensen. 2,642,705, June 23.
Polymer treatment for fiberboards. M. C. Fuqua. 2,643,200, June 23.
Polymeric diguanides. F. L. Rose and G. Swain. 2,643,232, June 23.
Polymerized dichlorostyrenes containing organo-tin anticrazing agents. J. W. Churchill. 2,643,242, June 23.
Polysiloxane antifoam agents. R. K. Walton and P. A. Thomas. 2,643,240, June 23.
Portable tool. J. Hornack. 2,643,088, June 23.
Power drive unit for remotely controlled television receivers. L. S. Depweg. 2,642,757, June 23.
Power measurement and detection at ultrahigh frequencies, Method and apparatus for. J. Bernier. 2,643,280, June 23.
Power transmission. J. T. King. 2,643,131, June 23.
Power transmission. J. Robinson. 2,642,810, June 23.
Power unit, Hydraulic. E. H. Bowers 2,642,804, June 23.
Precipitation of fine particle procaine penicillin G. F. W. Staab and J. M. Kolbas. 2,643,251, June 23.
Preheater and conditioner unit. C. W. Grimm. 2,642,676, June 23.
Preparing a material having prolonged scent retaining charactertistics and product thereof. R. W. Philippin. 2,643,212, June 23.
Preparing a photographic three-dimensional grain screen and for producing a photographic dry plate having a latent three-dimensional screen pattern thereon. H. E. Meyer. 2,643,188, June 23.
Preparing ceramic clays, Method and means for. H. H. Montague. 2,642,643, June 23.
Preserved eristalis genus, crane fly larvae, and method. F. Gould. 2,643,189, June 23.
Press: *See*—
Cheese press.
Pressing and like machine. V. Chmelar. 2,642,973, June 23.
Pressure band for brake linings. E. J. Vosler. 2,642,917, June 23.
Pressure reducing valve. A. Simons. 2,642,892, June 23.
Pressure roller spindle support and adjusting duplicating machines, Means for. R. M. Ford and G. T. Butler. 2,642,799, June 23.
Printing device, Finger. J. E. Harris. 2,642,687, June 23.
Printing ink for Portland cement bases. M. B. Young. 2,643,191, June 23.
Progressive high-frequency heating of variable-dimension shafts. A. C. Body and J. T. Sabol. 2,643,325, June 23.
Propellent charge for jet-propelled devices. R. W. Cairns. 2,643,184, June 23.
Propeller control mechanism. E. Martin and C. D. McCarthy. 2,643,077, June 23.
Propeller pitch changing mechanism. E. Martin, M. C. Beebe, Jr., and J. E. Anderson. 2,642,945, June 23.
Propeller, Reversible. G. Wood. 2,642,946, June 23.
Protector: *See*—
Separator protector.
Pulse converting system. S. Frankel. 2,643,331, June 23.
Pump: *See*—
Dual production zone Sanitary pump.
pump.
Pump for power transmissions, Dual rotary. D. B. Gardiner. 2,642,802, June 23.
Pump governor, Fire engine. R. C. Nepper. 2,642,805, June 23.
Pure cadmium red pigment, Preparing. B. W. Allan and F. O. Rummery. 2,643,196, June 23.
Purification of ortho-methoxyphenylacetone. R. V. Heinselmann. 2,643,268, June 23.
Quick opening bag. H. L. Bartelt. 2,643,049, June 23.
Quickly operable conduit clamp. J. W. Hamilton. 2,643,139, June 23.
Rack: *See*—
Automatic fishing pole Electroplating rack.
rack. Pocketed display rack.
Rack and holder for mortar hods, Supporting. I. E. Boyd, Sr. 2,642,998, June 23.
Rack for tie bags. D. M. Christie. 2,643,003, June 23.
Radiation shield supports in vacuum insulated containers. W. D. Cornell. 2,643,022, June 23.
Radio with a bass-reflex cabinet, Portable. H. F. Olson and J. Preston. 2,642,948, June 23.
Rail member for removably mounting sinuously corrugated wire springs. W. H. Neely, W. C. Sandor, and C. E. Smith. 2,642,932, June 23.
Railroad joint. J. A. Ross. 2,643,063, June 23.
Railroad journal box. R. J. Brittain, Jr. 2,643,163, June 23.
Rake, Powered rotary. A. S. Tucker. 2,642,710, June 23.
Rake, Self-cleaning. G. E. Huff. 2,642,712, June 23.
Reactor having nonplugging valve nozzle. G. M. Efferson. 2,643,183, June 23.
Receptacle closure. A. E. Smith. 2,642,870, June 23.
Receptacle having hinged cover. C. Castelli. 2,642,987, June 23.
Record card counting, stacking, and conveying mechanism. F. M. Carroll. 2,642,787, June 23.
Record changer. G. E. Redfield. 2,643,128, June 23.
Record changing device. H. C. Habegger. 2,643,129, June 23.
Record player and changer. K. J. Gregg. 2,643,127, June 23.
Reed for electric protection, Movable. W. A. Blanchard. 2,642,900, June 23.
Reel. G. F. Bourne and W. E. Kennedy. 2,643,073, June 23.
Reel for clothesline covers. H. Wodzanowski. 2,643,074, June 23.
Reforming hydrocarbons in the presence of a platinum or palladium catalyst. K. T. Hartwig. 2,643,214, June 23.
Refrigerator car. P. Talmey. 2,642,818, June 23.
Refrigerator construction, Portable. R. A. Thomaras. 2,642,728, June 23.
Refuse handling apparatus. A. Calcagno. 2,643,014, June 23.
Register, Multiple autographic. E. A. Laskey. 2,643,114, June 23.
Regulator: *See*—
Air volume regulator. Voltage supply regulator.
Two-stage gas pressure regulator.
Removal of carbonaceous deposits from process equipment. C. A. Murray. 2,643,205, June 23.
Removing acetylene from gaseous mixtures. R. C. Bour. 2,642,956, June 23.
Removing slag from center hole of ingot soaking pits, Method of and apparatus for. F. Drackley. 2,643,203, June 23.
Resilient wheel. A. Boschi. 2,643,153, June 23.
Resistance unit. F. A. Glassow. 2,643,316, June 23.
Retractable tool handle. A. F. Alexander. 2,642,907, June 23.
Reverse air flow convertible household vacuum cleaner. A. S. Browne. 2,642,616, June 23.
Reversible and berthable seat. B. F. Monroe. 2,642,922, June 23.
Rigid tension-truss bridge. J. W. Beretta. 2,642,598, June 23.
Roasting and salting nuts. F. E. Hageman. 2,643,190, June 23.
Roller trip for printing machines. M. Ras. 2,642,798, June 23.
Rolling thin sheet metal. H. W. Porth. 2,642,764, June 23.
Roofing and roof construction. C. A. McElbone. 2,642,824, June 23.
Roto reflector. S. Bradler. 2,642,777, June 23.

Rule and cursor with hairline adjusting means, Slide. P. E. Gaire. 2,643,059, June 23.
Rule, Extensible. L. E. Smiley. 2,642,667, June 23.
Rule, Slide. M. J. Quillinan. 2,643,057–8, June 23.
Runout detector. J. O. Hamilton. 2,643,306, June 23.
Sadiron lift, Snap action. G. Browning. 2,642,682, June 23.
Safety car seat. A. I. Roeder. 2,642,923, June 23.
Safety device for presses. P. N. Shaw. 2,642,755, June 23.
Sandwiches, Making. C. W. Gentry. 2,642,822, June 23.
Sanitary pump. D. F. Thomas. 2,642,808, June 23.
Saucer. A. Valenti. 2,642,731, June 23.
Scalding machine, Fowl. Z. Stubelek. 2,642,618, June 23.
Schlieren apparatus of improved optical quality. T. W. Zobel. 2,642,770, June 23.
Screen for threshing machines. H. F. Straley. 2,642,993, June 23.
Screw-actuated micrometer gauge. M. H. Ernst. 2,642,669, June 23.
Screw or like nicking machine. V. H. Fray. 2,642,594, June 23.
Seat: *See*—
Reversible and berthable Safety car seat.
seat.
Seat bottom spring. M. Stubnitz. 2,642,930, June 23.
Seat spring. M. Stubnitz. 2,642,929, June 23.
Securing rubber adhesion to metal and composition therefor. C. H. T. Wilkins. 2,643,273, June 23.
Seismometer, Magnetostriction. C. G. Cruzan. 2,643,367, June 23.
Selecting and actuating mechanism for cross-bar switches. J. I. Bellamy. 2,643,299, June 23.
Separator for steam, water, and scale. J. P. Tyskewicz. 2,642,949, June 23.
Separator protector. J. C. Bradley. 2,643,279, June 23.
Shade and chassis construction, Electric light fixture. A. R. Elmendorf. 2,643,328, June 23.
Shaft coupling. H. E. Strausser. 2,642,729, June 23.
Shaft sealing device for pumps, compressors, and similar apparatus. L. W. Bryant. 2,643,141, June 23.
Shaving brush and soap holder, Combined. A. E. Hartmann. 2,642,608, June 23.
Shears, Rotary miss-cut. K. W. Hallden. 2,642,938, June 23.
Sheet feeding apparatus. H. T. Backhouse. 2,643,121, June 23.
Sheet or signature feeding mechanism. L. C. Williams. 2,643,113, June 23.
Shell forgings, Making. P. J. Culhane, Jr. 2,642,647, June 23.
Shingle. P. E. Williams. 2,642,823, June 23.
Shipping device. G. W. Keiser, Jr., H. D. Muise, and W. A. Millec. 2,642,989, June 23.
Sifter, Flour. L. E. Winn. 2,642,992, June 23.
Sign: *See*—
Interchangeable letter sign.
Signal: *See*—
Curb signal. Gasoline cap signal.
Signal device for motor vehicles. T. D. Pellegrino. 2,643,309, June 23.
Silver recovering and collecting device. H. G. Lieberman. 2,643,108, June 23.
Single-leaf spring clamp. R. B. Burton. 2,643,111, June 23.
Skinning machine. F. J. Coad. 2,642,619, June 23.
Slack adjuster. J. Robinson. 2,642,963, June 23.
Sleeping bag for babies. F. E. McGann, Jr. 2,642,865, June 23.
Snowplow. G. E. Curtis and W. A. Oberbeck. 2,642,680, June 23.
Sodium nitrate, Producing. W. S. Miller. 2,643,180, June 23.
Soft glass and composite article. R. H. Dalton. 2,642,633, June 23.
Soft glass and composite article. R. H. Dalton. 2,643,020, June 23.
Solder feeder for electric soldering irons, Manually operated. N. M. Greene. 2,643,321, June 23.
Sound deadening means for car wheels. O. H. Brauer. 2,643,152, June 23.
Space and water heating unit, Combination. C. E. Carlson and G. Hatch. 2,643,323, June 23.
Spectacle case. B. Grosvenor. 2,642,986, June 23.
Spectrum analyzer for compressional waves. H. Hurvitz. 2,643,286, June 23.
Speed-responsive device. G. T. Randol. 2,643,310, June 23.
Spindle construction, Boring machine. W. Woerner. 2,642,759, June 23.
Splint for osteal deformities, Ambulatory traction. T. C. Ward. 2,642,864, June 23.
Spool dimension indicator. J. A. Cranford. 2,642,666, June 23.
Spray device, Flue-gas. J. Lipowitz. 2,643,105, June 23.
Spray machine, Side delivery. D. P. Wright and R. H. Fish. 2,643,155, June 23.
Spring: *See*—
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Seat spring.
Spring construction for furniture, Upholstered. R. C. Bateman and B. J. Schnitzer. 2,642,928, June 23.
Spring device. J. K. Wood. 2,643,109, June 23.
Stabilization of polysulfone resins with organic sulfides. W. W. Crouch and J. F. Howe. 2,643,241, June 23.
Stand: *See*—
Oil recovery stand.
Starter control system. L. C. Dermond and E. A. Kehoe. 2,643,347, June 23.
Starting and generating system. W. J. Rady. 2,643,346, June 23.
Stepladder. J. M. Renfro. 2,643,045, June 23.
Stitch separating machine. C. W. Baker. 2,642,595, June 23.
Stock feeding mechanism. J. L. Giffen. 2,643,115, June 23.
Stock restraining gate. A. S. and R. H. Hill. 2,642,840, June 23.
Stop for sewing machines, Automatic. M. S. Mansson. 2,643,305, June 23.
Streamlined corridor vehicle. A. Sbrighi. 2,642,816, June 23.
Striker plate. G. E. Mager. 2,643,149, June 23.
Strip feeding mechanism. A. W. Metzner. 2,643,135, June 23.
Stylus drive for facsimile recorders. A. G. Cooley. 2,643,173, June 23.
Substituted succinimides. C. A. Miller and L. M. Long. 2,643,257–9, June 23.
Suction blank feed for printing, wrapping and other machines. D. R. P. Jackson. 2,643,120, June 23.
Sulfurizing terpene hydrocarbons. E. W. Brennan. 2,643,248, June 23.
Support: *See*—
Bedclothes support. Garment hanger support.
Elastic fluid turbine support. Window drapery support.
Supporting mechanism for cabinet doors. E. W. Swanson and D. O. Radke. 2,643,166, June 23.
Surgical retractor. H. M. Jackson. 2,642,862, June 23.
Suspension of vehicles. J. A. Gregoire. 2,643,110, June 23.
Swager with axially progressive die action, Rotary. S. O. Evans. 2,642,762, June 23.
Switch: *See*—
Automatic spark plug switch. Thermal switch.
Thermoelectric switch.
Direction signal switch.
Switch actuator, Electric. J. J. Geel. 2,643,307, June 23.
Switch contact arrangement, Electrical. D. Mackey. 2,643,301, June 23.
Swivel unit. N. R. Schwartz. 2,643,144, June 23.
Synthesizing 4,4'-biphenyl diisocyanate. E. E. Fauser. 2,643,264, June 23.
Synthetic rubber-like materials from an alkyl acrylate and an aliphatic diene hydrocarbon. C. H. Fisher and W. C. Mast. 2,643,247, June 23.
Syringe, Wall fountain. C. E. Dye. 2,642,869, June 23.
System for measuring radioactivity. I. H. McLaren and C. E. Alsterberg. 2,643,344, June 23.
System of aerial navigation. J. B. Bartow. 2,643,374, June 23.
T-joint, Making a welded. R. C. Davis. 2,642,652, June 23.
Table and bench, Folding. P. M. Seymour. 2,642,925, June 23.
Telegraph converter system and apparatus. L. M. Potts. 2,643,291, June 23.
Telegraphic code translator. E. A. B. Eliasen and K. H. F. Jensen. 2,643,292, June 23.
Telephone, Hand. N. J. Cornfeld. 2,643,301, June 23.
Telephone subscriber set with side-tone reduction for central battery systems. J. M. de Stadelhofen, J. Müller-Strobel, J. Patry, and R. Strub. 2,643,300, June 23.
Television system. G. C. Szikiai. 2,643,289, June 23.
Templet bending jig. R. A. Mears and L. R. McCreary. 2,642,765, June 23.
Terminal of the grommet type. Q. Berg. 2,643,366, June 23.
Terminal pin block. M. Rose. 2,643,365, June 23.
Testing device, Coin material. J. S. Ogle. 2,642,074, June 23.
Testing electric cable sheaths. J. M. Gomez-Diez. 2,642,739, June 23.
Thermal switch. P. Giuffrida and B. E. Shaw. 2,643,311, June 23.
Thermoelectric switch. J. A. Rodden. 2,643,312, June 23.
Thin polytetrahaloethylene films, Producing. D. B. Peck. 2,642,625, June 23.
3,8-bis-(trifluoromethyl)-benzo (c) cinnoline and N-oxides thereof. S. D. Ross and I. Kuntz. 2,643,252, June 23.
Three-stage condenser. F. B. Doyle. 2,643,052, June 23.
Tie pack. B. H. Perry. 2,643,035, June 23.
Time division system, Pulse interval. P. W. Borgeson. 2,643,330, June 23.
Timepiece movement comprising a differential gear. F. Meyer. 2,642,716, June 23.
Timer controlled apparatus adapted to feed and measure materials. F. A. Craig and J. H. Garvey. 2,643,026, June 23.
Timer, Ignition. A. G. Lautzenhiser. 2,643,304, June 23.
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Tire mounting for automobiles, Spare. C. L. Lundgren. 2,643,041, June 23.
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Tobacco stringing machine. M. Bourquin. 2,643,008, June 23.

Toilet and sealer, Dry. E. H. Posey. 2,642,579, June 23
Tool: *See*—
Machine tool. Portable tool.
Tool for cutting sheet metal, Cutting. T. B. Johnson. 2,642,658, June 23.
Tool for upsetting internally threaded rivets. H. E. Wilt. 2,643,019, June 23.
Tool mounting means, Floating. D. V. Stellin. 2,643,142, June 23.
Toothbrush, Fountain. T. T. Aschenbach. 2,642,606, June 23.
Top, Tethered helicopter. E. W. Fishburne. 2,642,698, June 23.
Toy airplane, Bomb dropping. G. C. Kelly. 2,643,126, June 23.
Toy truck, Steerable. J. W. Zimmer. 2,642,700, June 23.
Tracking system between receiver and transmitter. M. Silver. 2,643,329, June 23.
Transload device. A. E. Brickman. 2,642,780, June 23.
Transmitter, High-speed telegraph. T. A. Hansen. 2,643,290, June 23.
Traveling wave tube. G. C. Dewey. 2,643,353, June 23.
Tray, Freezing. A. J. Frei, Sr. 2,642,726, June 23.
Treating channel black. I. Williams. 2,643,182, June 23.
Treating hair. V. A. Gaut. 2,643,375, June 23.
Treatment and use of porous contact masses. A. W. Hoge. 2,643,215, June 23.
Treatment of fluorinated aluminum-bearing mineral products. W. E. White. 2,643,179, June 23.
Treatment of rubber stock. W. J. Yurgen. 2,642,626, June 23.
Treatment with alcoholic solution to complete coupling of azo dyes in cellulose acetate textile material. V. S. Salvin. 2,643,175, June 23.
Trench making machine and the like. H. H. Bates. 2,643,096, June 23.
Trough, Automatic drinking. G. Marechal. 2,642,839, June 23.
Truck loader, Front or rear-end. J. R., W. O., and L. W. Brisson. 2,643,011, June 23.
Trunk latch type fastener. D. H. Gaston. 2,643,148, June 23.
Truss and stud support, Foldable and compactable. C. A. McElhone and T. G. Jones. 2,642,825, June 23.
Tube: *See*—
Television tube. Uniformly collapsible tube.
Traveling wave tube.
Tube holder and dispenser with pivotally mounted tube-squeezing member. W. J. Chapman and W. E. Reitz. 2,643,029, June 23.
Tuck-making guide. T. E. Carroll. 2,642,828, June 23.
Tuning device, Television. G. D. Hulst. 2,642,746, June 23.
Tunnel portal construction. W. E. Andrews. 2,642,788, June 23.
Turbine heater. J. H. Edwards. 2,643,091, June 23.
2-aminopyridine and 2-aminoquinoline, Preparation of. N. H. Marsh. 2,643,256, June 23.
Two-stage condenser. F. B. Doyle. 2,643,051, June 23.
Two-stage gas pressure regulator. M. H. Goodner. 2,642,701, June 23.
Typewriter front feed attachment. F. J. Kavanaugh. 2,642,075, June 23.
Unicontroller system. R. P. Fox. 2,643,356, June 23.
Uniformly collapsible tube. M. M. Fink. 2,643,027, June 23.
Universal contour generator. L. P. De Vau and A. F. Baltus. 2,642,660, June 23.
Universal pH indicator. S. Mooradian and H. E. Millson. 2,643,230, June 23.
Universal traveling unloader sucker for cotton gins. L. J. Zelg. 2,643,160, June 23.
Unloading valve. W. E. Renick. 2,642,887, June 23.
Unseating structure for rotary plug valves. L. W. Mueller and F. Tratzik. 2,643,089, June 23.
V belt. A. L. Freedlander. 2,642,751, June 23.
Valve: *See*—
Aerodynamic valve. Mercury sealed valve.
Clutch piston safety valve. Pressure reducing valve.
Gas lift valve. Unloading valve.
Insert type thermostatic expansion valve.
Valve. W. H. Skewis. 2,642,890, June 23.
Valve construction. E. N. Burnett. 2,642,894, June 23.
Valve construction, Mixing. R. M. Lottes. 2,642,893, June 23.
Valve control for hydraulic circuits, Gyroscopic. E. C. Wade. 2,642,885, June 23.
Valve for hydraulic systems, Shock absorbing check. H. E. Cluphf. 2,643,090, June 23.
Valve mechanism for controlling the operation of pneumatic devices and the like, Air. G. M. Walraven and R. G. Knudsen. 2,642,848, June 23.
Vapor heated roll. W. T. R. Kinraide and W. C. Eberlin. 2,643,099, June 23.

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Vapor phase corrosion inhibition of metals. A. Wachter and N. Stillman. 2,643,177, June 23.
Vaporizer, Liquid. V. J. Lee. 2,642,637, June 23.
Vector sight. F. A. Lyon. 2,642,662, June 23.
Vehicle: *See*—
Streamlined corridor vehicle.
Vehicle for children, Collapsible. D. W. Gill. 2,642,924, June 23.
Vehicle heater. S. J. Budlane. 2,643,062, June 23.
Vending machine. O. V. Wells, R. O. Borst, and C. C. Stapp. 2,643,169, June 23.
Ventilated insulating spacing shield for flashlight dry cells. A. H. Macklenar. 2,643,327, June 23.
Vertical illuminator. J. T. Rooney. 2,642,775, June 23.
Vise, Plier. J. Elsberg. 2,642,766, June 23.
Visible record device. W. H. Brodtmann. 2,642,832, June 23.
Vitamin A acetate gelatin beadlets. E. J. Goett, E. E. Macdonough, Jr., and C. J. Salivar. 2,643,209, June 23.
Vitamin B_{12}-active substance elution from montmorillonite absorbent. S. Kutosh, G. B. Hughey, and R. S. Malcolmson. 2,643,210, June 23.
Vitamin B_{12} by streptomyces olivaceus, Production of. H. H. Hall. 2,643,213, June 23.
Voltage supply regulator. E. Fairstein. 2,643,360, June 23.
Volume control for pulse code modulation. P. R. Algrain. 2,643,293, June 23.
Vulcanizing apparatus, Continuous. D. D. Jones. 2,642,622, June 23.
Wall structure. V. H. Hasselquist. 2,642,883, June 23.
Wallet, Billfold. B. S. Berger. 2,642,912, June 23.
Washing machine and agitator therefor, Clothes. F. H. McCormick and K. Clark. 2,642,733, June 23.
Washing machine centrifugal extractor support and damping mechanism. R. C. Oeler and A. R. Constantine. 2,642,996, June 23.
Water fluoridation and impurity coagulation. W. E. White. 2,643,226, June 23.
Water-soluble copolymers of salts of monoalkyl esters of maleic acid. W. K. Wilson. 2,643,246, June 23.
Wave guide directional coupler. C. E. Arnold. 2,643,298, June 23.
Waxer, Floor. M. Ray. 2,642,605, June 23.
Weatherstrip for windows, Adjustable. E. C. Miles. 2,642,636, June 23.
Weld wheel construction for seam welders. A. L. Williams and E. A. Craig. 2,643,318, June 23.
Welding or cutting metal and other materials by chlorine fluoride torch. A. V. Grosse. 2,642,650, June 23.
Weldment and making high tensile steel weldments by electric arc welding. F. G. Danhier. 2,642,905, June 23.
Well flow apparatus. A. I. Robinson. 2,642,812, June 23.
Well flow apparatus and system. C. D. Fletcher. 2,642,811, June 23.
Well pipe handling equipment. F. D. De Jarnett. 2,643,005, June 23.
Wheel: *See*—
Resilient wheel.
Winder, Potentiometer. H. Harris, Jr. 2,643,068, June 23.
Window and operating means therefor, Awning-type. F. Somerstein. 2,642,907, June 23.
Window construction. A. Mauro. 2,642,631, June 23.
Window drapery support. L. G. Peretti. 2,643,001, June 23.
Window frame assembly. J. Sylvan. 2,642,935, June 23.
Window frame construction. S. Savage. 2,642,632, June 23.
Windshield and wiper, Curved. R. O. Doss. 2,642,615, June 23.
Windshield wiper. T. J. Smulski. 2,642,612, June 23.
Windshield wiper and arm connection. F. A. Krohm. 2,642,613, June 23.
Windshield wiper arm. J. W. Anderson. 2,642,611, June 23.
Windshield wiper mechanism. E. E. Sivacek. 2,642,614, June 23.
Winterized vegetable oil and process of producing the same. A. L. Ayers and C. R. Scott. 2,643,260, June 23.
Wire fastener for cords. G. E. Mills. 2,642,640, June 23.
Wire unreeling device. K. A. Moore. 2,643,075, June 23.
Wood cellular laminated railway car. B. Goldberg. 2,642,817, June 23.
Work glove, mitt, one-finger or the like. J. V. Huck. 2,643,573, June 23.
Work holding clamp with an angularly adjustable pressure element. T. Hewat. 2,642,905, June 23.
Wrapper for automobile doors, Protecting. M. P. Williams. 2,643,050, June 23.
Wrapping apparatus for articles of circular cross section. A. Hess. 2,642,708, June 23.
Wrapping machine, Package. O. Sandberg. 2,642,707, June 23.
Writing and drawing machine, Automatic facsimile. L. P. Black. 2,642,659, June 23.

CLASSIFICATION OF PATENTS

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NOTE.—First number=class, second number=subclass, third number=patent number.

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CLASSIFICATION OF DESIGNS

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U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

BIERLY v. WILLIAM BERNARD HAPPOLDT, JR.

No. 5921. Decided February 6, 1953

[201 F.2d. 955; 96 USPQ 406]

1. INTERFERENCE—RIGHT TO MAKE COUNT—DOUBTS RESOLVED AGAINST APPLICANT WHO COPIES PATENT CLAIM.

Rule restated that one who copies claims from an issued patent must show prior disclosure in such clear terms as to enable any person skilled in the art to make the claimed subject matter and any doubt as to an applicant's right to make the copied claims must be resolved against him.

2. SAME—PRIORITY OF INVENTION—FLAME—RESISTANT COMPOSITION.

The decision of the Board of Interference Examiners awarding priority of invention of the counts in issue, directed to a flame-resistant composition, is affirmed since the appellant's application does not afford clear basis for the claimed subject matter.

APPEAL from Patent Office. Interference No. 84,121.

AFFIRMED.

Campbell, Brumbaugh, Free & Graves (*Walter H. Free, Thornton F. Holder*, and *John R. Janes* of counsel) for appellant.

J. M. Castle, Jr., for appellee.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority to appellee because of its holding that the disclosure in the application of appellant, who is the senior party, does not clearly support the counts.

The application of Bierly, Serial No. 21,742, entitled "Flame-Resistant Composition," was filed April 17, 1948; that of Happoldt, Serial No. 61,890, entitled "Flame Retardant Compositions," was filed November 24, 1948.

A patent, No. 2,480,298, was issued upon the Happoldt application August 30, 1949. It contained five claims. In due time claim 1 was copied into the Bierly application and an interference was declared October 31, 1949.

Subsequent proceedings before the Primary Examiner are epitomized in the decision of the Board of Interference Examiners as follows:

• • • Bierly in the motion period moved to add proposed counts 2, 3 and 4 corresponding to claims 2, 3, and 4 of the Happoldt patent. Happoldt opposed this motion and also moved to dissolve on the ground that Bierly had no right to make the count. The Primary Examiner initially granted the motion to dissolve and denied the motion to add proposed counts but on reconsideration, in view of the citation of certain patents, publications and pertinent law and the filing of affidavits in behalf of the party Bierly, denied the motion to dissolve, and added the proposed counts.

Count 1 of the interference, which is illustrative, reads:

1. A composition of matter comprising at least 50 per cent by weight of solid polythene, 20 per cent to 35 per cent by weight of antimony trioxide and at least 6 per cent by weight of a solid chlorinated hydrocarbon, the said chlorinated hydrocarbon containing from 55 per cent to 80 per cent by weight of chlorine; *the combined weight of antimony trioxide and the said solid chlorinated hydrocarbon being present in an amount of between 38 per cent to 50 per cent by weight based on the combined weight of polythene, antimony trioxide and chlorinated hydrocarbon present in said composition* and said proportions of polythene, antimony trioxide and chlorinated hydrocarbon being based on the combined weight of polythene, antimony trioxide and chlorinated hydrocarbon present in said composition. [Italics ours.]

For reasons hereinafter appearing we quote claim 2 as it originally appeared in the Happoldt application:

2. A composition as claimed in claim 1, wherein the inflammable polymeric thermoplastic material comprises at least 50% of the composition.[1]

We have italicized the clause in claim 1, the subject matter of which constitutes the only issue before us.

There was another issue before the Board, it being whether the party Bierly's specification disclosed the elements of antimony trioxide, one of the three basic elements in the claims. Only antimony oxide was named in the specification. The Primary Examiner at first ruled that antimony trioxide was not disclosed, but upon reconsideration held, upon the showing made, that Bierly "has established that before and at the time of filing of the Bierly application, antimony oxide, in the absence of any other limitations as to the oxygen, was generally understood by those skilled in the art to mean antimony trioxide."

The Board approved the latter ruling and no appeal has been taken from its holding in that respect.

As to disclosure of the limitation which we have italicized in the count as quoted supra, the Primary

[1] Since count 2, as originally drawn, was dependent on count 1, it was agreed by counsel for the respective parties that it might be considered as though it read:

2. A composition of matter comprising at least 50% of a polymeric thermoplastic material and a minor proportion of flameproofing constituents comprising a highly chlorinated high molecular weight organic material and an inorganic flame-retardant substance.

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Examiner held the subject matter of it to be disclosed in the Bierly specification, and with that the Board disagreed. The appeal relates to that single phase of the controversy.

The Board, referring to the question of disclosure broadly, said: "There is but one question for disposition • • • but it has become rather involved." This seems to us to be something of an understatement even when limited to the single factor which we are called upon to consider. The involvement is possibly due in part to the technical character of the ingredients which enter into the composition of matter defined in the counts, but we think it is more particularly due to the somewhat complicated method used in defining the proportions of such ingredients. For convenience we repeat the limitation in the count which constitutes the issue:

• • • the combined weight of antimony trioxide and the said solid chlorinated hydrocarbon being present in an amount of between 38 per cent to 50 per cent by weight based on the combined weight of polythene, antimony and chlorinated hydrocarbon present in said composition • • •

In the brief for appellee there is a concise analysis of the limitation, which we reproduce, the italics being quoted:

• • • These proportions are all expressly based on *the combined weight of the three components*, any optional components being disregarded. The proportions called for are:

Polythene—at least 50 per cent by weight;
Antimony trioxide—20 per cent to 35 per cent by weight;
Solid chlorinated hydrocarbon—at least 6 per cent by weight;
Combined weight of antimony trioxide and solid chlorinated hydrocarbon—38 per cent to 50 per cent by weight.

The brief continues:

The issue turns on whether Bierly disclosed the use of antimony trioxide within the range of 20% to 35% by weight and the use of a combined weight of antimony trioxide and solid chlorinated hydrocarbon, based, of course, on the combined weight of all three specified components of the composition, within the range of 38% to 50%. It is Happoldt's position as well as that in the Board's decision that Bierly fails to disclose *clearly* either the use of as much as 20% of antimony trioxide or as much as 38% combined weight of antimony trioxide and solid chlorinated hydrocarbon. [Italics quoted.]

As a condition precedent to obtaining a patent, it is provided by 35 U. S. C. Sec. 33 (R. S. 4888) that there shall be filed in the Patent Office "a written description of the claimed invention and of the manner and process of making, constructing, compounding, and using it, in such *full, clear, concise and exact terms* as to enable any person skilled in the art or science to which it appertains, or with which it is most nearly connected, to make, construct, compound, and use the same • • •." [Italics ours.]

In the instant case, appellant Bierly seeks a finding of priority as to the several counts which already have been patented to the party Happoldt, Jr. (inadvertently, if the interference was properly declared, since Bierly's application was copending with that of Happoldt, Jr.) to the end that he also may receive a patent upon them.

The counts define a composition of matter such as the compositions rendered patentable by 35 U. S. C., par. 31. (R. S. 4886). It was incumbent upon Bierly therefore to so describe his claimed invention in his specification as to enable any person skilled in the art to make or compound such composition of matter.

More accurately, since Bierly's specification was prepared and filed in the Patent Office more than seven months before the Happoldt application was filed and more than fifteen months prior to the issuance of the Happoldt patent from which Bierly obtained his information of the counts, it must be found that he had anticipated the counts with a description in "full, clear, concise and exact terms."

[1] It is well settled, of course, that one who extracts claims from an issued patent for the purpose of securing an interference must show clear prior disclosure (*Brand* v. *Thomas*, 25 CCPA (Patents) 1053, 96 F.2d 301, 37 USPQ 505) and in such a case any doubt as to an applicant's right to make the copied claims must be resolved against him. See *Jorgensen* v. *Kingsland, Commissioner of Patents*, 83 Fed. Supp. 319, 81 USPQ 465, citing *Lindley* v. *Shepherd*, 58 App. D. C. 31, 24 F.2d 606, wherein the Court of Appeals of the District of Columbia (now the U. S. Circuit Court of Appeals, D. C. Circuit), our immediate predecessor in this jurisdiction, after quoting the foregoing statutory language said:

• • • Shepherd [from whose patent the claims in issue had been copied by Lindley] complied with this statute. Lindley did not. His amendment [adding the claims to his application] was inspired by knowledge of what Shepherd had accomplished, and all doubts as to his right to appropriate what has been granted Shepherd should be resolved against him. It is not enough that he may have had a conception of the invention he seeks to appropriate. His application must disclose it. *Herzog* v. *N. Y. Tel. Co.* (C. C. A.) 172 F. 425; *Id.* (C. C. A.) 176 F. 349; *Hestonville* v. *McDuffee* (C. C. A.) 185 F. 798.

In the instant case we are met at the threshhold with a situation which evokes an inquiry as to whether the specification of Bierly's application does furnish a description of the subject matter of the counts and the manner and process of making or compounding same in such full, clear, concise and exact terms as to enable any person skilled in the art of producing flame-resistant or flame retarding compositions of the kind described to make or compound such compositions.

We must assume—and we entertain no doubt as to the correctness of the assumption—that the respective tribunals of the Patent Office who passed upon the issue here involved, are experts in the described art, and *we find them in disagreement*.

When the experts disagree as to a highly technical question such as that here involved, it is difficult for the layman to avoid some bewilderment.

It seems to be virtually agreed that Bierly is dependent for disclosure upon the following paragraph in his specification, which the Board characterized as a "controversial paragraph":

In general, for a desirably flameproofed plastic material which may suitably be molded as by injection molding, the flameproofing material should be added to the plastic material in an amount equal to not more than 50% of the entire plastic material and is preferably added in an amount equal to at least 15% of the final flame-resistant plastic composition.

The Primary Examiner was of opinion that the disclosure was sufficient to meet the statutory requirements and sturdily defended his view in two

decisions. We quote the following from his decision of October 19, 1950, rendered upon Happoldt's petition for reconsideration of his first decision denying Happoldt's motion to dissolve and adding counts 2, 3, and 4:

Examiner has carefully considered party Happoldt's argument that the Bierly specification does not disclose any composition within the proportion range recited in the interference count: Happoldt contends that the Bierly specification does not disclose the upper limit of 50% for the combined weight of chlorinated hydrocarbon and antimony trioxide based on the combined weight of chlorinated hydrocarbon, polythene and antimony trioxide.

However, Examiner still finds basis for this upper limit of 50% in the Bierly specification. Claim 2 indicates that "up to 50%" of the entire composition (i. e. the three component composition) may be the combined fire retardant substances. This is obviously a teaching that more than 33% by weight of the three component composition may be the combined fire retardant substances. Also Bierly's specification page 8, lines 12 and 13, states that the flameproofing material should be added in an amount equal to not more than 50% of the entire plastic material. In view of original claim 2, wherein it is indicated that an upper limit of the order of 50% of the flame retardant material based on the weight of the 3 component composition is to be covered, it appears obvious that applicant's statement on page 8 that not more than 50% of the entire plastic material may be used is a teaching that the final flameproofing composition may contain not more than 50% weight of the fire retardant components. A minor proportion covers "up to 50%" so there is nothing incongruous seen in an interpretation of "up to 50%" with respect to the range of flameproofing material in original claim 2.

The following are excerpts from the decision of the Board of Interference Examiners:

Original claim 2, it is considered, furnishes no basis for a positive conclusion as to a combined proportion of fire retardant substances up to 50%. The claim is simply negative as to the fire retardant content. The Examiner reasoned that since original claim 2 is dependent on original claim 1 which recites a three component composition one of which is the polymeric thermoplastic material specified in original claim 2 to be at least 50% and the other two are fire retardant components, it follows the latter two could be present up to 50%. However, original claim 1 is not limited to a three component composition. The composition was originally described in claim 1 as "comprising" not *consisting of* and thereby the presence of other ingredients is not excluded. Such other ingredients are optionally provided for on pp. 7 and 8 of the specification; namely 10% more or less of the final composition can be plasticizer and up to 5% lubricant. Thus, all that is clear from the two original claims as regards the fire retardant components is that they are in some minor proportion as set forth in claim 1 and the meaning of minor, since it is inherently indefinite, may be sought for if desired in the specification. For our purpose which concerns the counts it is apparent that since percentage proportions of fire retardant components are not positively recited or clearly derivable *without speculation on the meaning of original claims 1 and 2 and since ingredients other than the three named may be present*, the said means do not stand in themselves as a clear exposition of a definite upper limit of the fire retardant components coming to within the range of the counts. [Italics ours.]

The decision then states in substance that of the thirteen original claims submitted by Bierly only one of them, claim 8,[3] positively and clearly sets forth the proportion range of flameproofing ingredients, namely, "between 15% and 30% of the total composition"; that the range so named obviously is "much below the minimum recited in the counts" from which fact "caution appears warranted in inferring *by construction* [Italics ours] a materially higher range in claim 2"; that paragraph 8 permits of more than one interpretation; that the one adopted by the Primary Examiner "appears the less plausible"; that, except in the instance here involved, Bierly used clear language to indicate the final flame resistant composition (giving illustrations by quoting from or paraphrasing parts of the Bierly specification), and asserts:

In view of the care otherwise exercised in the choice of language by Bierly to designate the final flame-resistant plastic composition it seems doubtful that he meant the same thing by "entire plastic material." Logically, had Bierly in the said paragraph meant to assert the addition of flameproofing material in an amount equal to not more than 50% of the final composition he would simply have left out the words "of the entire plastic material." Such would have been in accordance with the meticulousness used otherwise to designate the final composition.

In the circumstances, having used the designation "entire plastic material" it seems at least as reasonable that something other than the final composition is meant. Such could logically be the plastic material excluding the flameproofing material. On page 5 of his specification Bierly mentions some fifteen polymeric materials of the thermoplastic type that could be used either alone or copolymerized with other thermoplastic substances. In addition, as set forth on page 6, plasticizers (as well as lubricants) may be added along with the flameproofing material. Hence there are enough types of material which enter into the plastic content exclusive of the separately designated flameproofing material to justify the term "entire plastic composition." On the basis of such at least equally logical interpretation, the flameproofing material would be no more than half the plastic material or no more than one-third the final composition. Moreover, it is noteworthy that this interpretation finds extensive support in the examples. There are thirteen examples in the Bierly specification and in none of them does the flameproofing material exceed 33⅓% of the final composition. Most of them specify substantially less than 33⅓% and in Example 8, the only one pertaining to the ingredients of the counts, the flameproofing material is only about 23% of the final composition.

In view of the foregoing, we think it perfectly obvious that, to say the very least of it, an extreme degree of doubt exists respecting the sufficiency of the Bierly disclosure. Sufficiency of disclosure could only be awarded him by interpreting a somewhat hazy paragraph of his specification in a manner which those skilled in the art might well regard as untenable since a different interpretation seems to be more in harmony with the phraseology involved.

We think doubt as to sufficiency of disclosure should be resolved against one who copies claims for the purpose of interference in all instances, and most emphatically so in cases where the claims are copied from an existing patent.

The discussions by the tribunals of the Patent Office and by counsel for the respective parties in this case were quite elaborate, numerous angles being presented and a number of judicial decisions cited. We have confined our discussion to what obviously is the fundamental question at issue. We have studied the cited cases but, under the facts appearing, deem it unnecessary to discuss them. The case of *Arness* v. *Franks*, 31 CCPA (Patents) 737, 138 F.2d 213, 59 USPQ 154, is regarded as apposite.

[2] The decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

[3] Claim 8 like claim 2 is dependent upon claim 1 and in our opinion may be considered as though it read:
8. A composition of matter comprising at least 50% of a polymeric thermoplastic material and flameproofing ingredients comprising between 15% and 30% of the total composition.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,969,764, R. Soutter, Jr., Electrical apparatus; 2,222,932, C. E. Bennett, Electric cable, D. C. N. J. (Newark), Doc. 277/50, *The Okonite-Callender Cable Co., Inc.* v. *General Cable Corp.* Dismissed Apr. 13, 1953.

2,041,638, E. E. Emons, Spectacle frame, D. C., S. D. N. Y., Doc. 50/361, *Ful Vue Sales Co.* v. *American Optical Co.* Complaint dismissed Apr. 6, 1953.

2,113,921, F. Mashek, Leather carrying case, filed Apr. 7, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c800, *Stein Bros. Mfg. Co.* v. *Chicago Saddlery Co.*

2,142,336, J. L. Selinger, Elastic smocking, filed Apr. 8, 1953, D. C., S. D. N. Y., Doc. 84/84, *Farragut Co.* v. *Florence Sportwear, Inc.* Judgment for injunction (notice Apr. 14, 1953).

2,222,932. (See 1,960,764.)

2,250,239, H. Sonnenfeld, Electrical power cable, D. C., N. J. (Newark), Doc. 11880, *General Cable Corp.* v. *The Okonite-Callender Cable Co., Inc.* Stipulation of dismissal (notice Apr. 13, 1953).

2,254,493, E. Pearson, Synchronizing apparatus and system, D. C., N. D. Ill. (Chicago), Doc. 50c1209, *E. Pearson* v. *Central Illinois Light Co.* Complaint dismissed and judgment entered for defendant Apr. 5, 1953.

2,349,450, G. H. Meinzer, Apparatus for dynamic balancing, D. C., N. D. Calif. (San Francisco), Doc. 31510, *G. H. Meinzer et al.* v. *Feed Machinery & Chemical Corp.* Consent decree holding infringement Apr. 6, 1953.

2,363,971, M. Katz, Ventilated shopping bag and method of constructing same, D. C., S. D. Inc. (Indianapolis), Doc. 3291, *Kary-Safe Paper Bag Co., Inc., et al.* v. *Deubener Bag Co., Inc.* Stipulation for dismissal of both complaint and counterclaim approved; cause dismissed Mar. 20, 1953.

2,383,912, G. Gargiulo, Window structure, filed Apr. 3, 1953, D. C. Fla. (Miami), Doc. 4906–M, *Industrial Machine Tool Co., Inc.* v. *Miami Window Corp.*

2,450,866, Escoffery & Merva, Semi-conductor, filed Apr. 13, 1953, D. C., W. D. Mo. (Kansas City), Doc. 8186, *Dr. Salsbury's Laboratories* v. *I. D. Russell Co. Laboratories.*

2,457,610, R. J. Yocum, Ice skating rink, filed Apr. 2, 1953, D. C., S. D. N. Y., Doc. 84/58, *R. J. Yocum* v. *Roxy Theatre, Inc.*

2,498,009, Schrader & Sears, Method of and apparatus for assembling ball-pointed writing instruments, filed Apr. 9, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15367–WM, *Hartley Pen Co.* v. *Lindy Pen Co., Inc., et al.*

2,534,051, R. L. Abos et al., Presser bar control for sewing machines, filed Apr. 6, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15352–C, *Reveo Products* v. *Morse Sewing Machine & Supply Co.*

2,577,270, P. A. Riley, Character picture, filed Apr. 7, 1953, D. C., S. D. N. Y., Doc. 84/80, *The Dolly Toy Co.* v. *Lowell Products Co.*

2,628,184, R. R. Widmann, Composition of matter to decrease the circulation of blood and lymph in vascular and allergic disorders, D. C., S. D. Calif. (Los Angeles), Doc. 12251–BH, *R. R. Widmann* v. *Walden Professional Pharmacy.* Patent held valid and infringed: injunction (notice Apr. 7, 1953).

Re. 22,282, C. E. Swartz, Method of bonding powdered metallic material, filed Apr. 6, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30104, *S. K. Wellman Co.* v. *Metallic Friction Materials, Inc., et al.*

Re. 23,416, C. W. Kinnear, Drill, filed Apr. 6, 1953, D. C., E. D. Tex. (Beaumont), Doc. 2363, *Kinnear-Weed Corp.* v. *Humble Oil & Refining Co.*

Des. 167,004, S. D. Sanson, Stocking, Des. 167,640, Des. 167,641, Des. 168,414; Des. 167,639, C. W. Livingston, same, filed Apr. 8, 1953, D. C., S. D. N. Y., Doc. 84/92, *Sanson Hosiery Mills, Inc.* v. *Dovesheer Hosiery Co.*

Des. 167,639. (See Des. 167,004.)

Des. 167,640. (See Des. 167,004.)

Des. 167,641. (See Des. 167,004.)

Des. 168,414. (See Des. 167,004.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 42,515, The Singer Mfg. Co., Sewing machine, filed Apr. 13, 1953, D. C., W. D. Pa. (Pittsburgh), Doc. 11372, *The Singer Mfg. Co. et al.* v. *Singer Upholstering & Sewing Co.*

T. M. 556,551, R. C. Parkes, Drying, dyeing, bleaching and carbonizing machine and parts thereof, filed (notice Apr. 14, 1953), D. C. N. J. (Camden), Doc. 342/53, *The National Drying Machine Co. et al.* v. *Eastern Enterprises, Inc.*

NOTICES

Adjudicated Patents

(D. C. Ill.) Hardey Patent No. 2,456,781, for a portable blower type radiant heater. Claims 1, 5, and 6 *Held* invalid. *Emerson Electric Mfg. Co.* v. *Chicago Electric Mfg. Co.*, 111 F. Supp. 289; — USPQ —.

(C. A. Ohio) Summers Patent No. 2,532,205, for a coin selector. Claims 1 and 2 *Held* invalid. *Royal Patent Corporation et al.* v. *Monarch Tool & Manufacturing Company*, 203 F.2d 299; 97 USPQ 196.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,527,632, R. E. Graham, Storage tube, decided Mar. 23, 1953, claims 2, 3, 4, 5, and 7.

Pat. 2,527,652, J. R. Pierce, Storage tube, decided Mar. 24, 1953, claims 1, 2, 3, 5, 6, 7, and 8.

Pat. 2,530,139, F. J. Wiegand and D. W. Meador, Power control, decided May 25, 1953, claims 1, 21, 25, and 26.

Pat. 2,549,008, V. V. Mason, Engine oil filter, decided May 19, 1953, claims 1, 2, and 3.

Pat. 2,560,691, W. V. B. Roberts, Impedance measuring, decided May 21, 1953, claim 1.

Extension of Patents Granted

Patent No. 2,016,667. PORTABLE EARTH BORING MACHINE. Granted October 8, 1935. John H. Crowell. The above cited patent has been extended under the provisions of the act of June 30, 1950, 64 Stat. 316, as amended, Public Law 437—82d Congress, for 5 years and 354 days from the expiration of the original term thereof.

Patent No. 2,324,378. SUBMARINE PROSPECTING. Granted July 13, 1943. John W. Flude. The above cited patent has been extended under the provisions of the act of June 30, 1950, 64 Stat. 316, as amended, Public Law 437—82d Congress, for 4 years and 143 days from the expiration of the original term thereof.

Disclaimers

2,538,087.—*Palmer P. Derby*, Boston, Mass. ELECTRON DISCHARGE DEVICE OF THE MAGNETRON TYPE. Patent dated Jan. 16, 1951. Disclaimer filed May 25, 1953, by the assignee, *Raytheon Manufacturing Company.*

Hereby enters this disclaimer to claim 1 of said patent.

2,540,966.—*Ralph R. Sweain*, South Euclid, Ohio. FURNACE CONTROL SYSTEMS. Patent dated Feb. 6, 1951. Disclaimer filed May 21, 1953, by the assignee, *Bailey Meter Company.*

Hereby enters this disclaimer to claims 1, 2 and 3 of said patent.

Cancellation Notices

[No. 6040]

Louis Miller, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lerner Bros. Manufacturing Co., Inc., No. 311 West 8th Street, Kansas City 6, Mo., to effect the cancellation of trade-mark registration of Louis Miller, 1199 Broadway, New York, N. Y., No. 354,815, dated February 22, 1938, and the notice of such proceeding sent by registered mail to the said Louis Miller at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Louis Miller, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 16.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

May 18, 1953.

[No. 6003]

Herman P. Knoble, his assigns or legal representatives, take notice:

The Paramount Paper Products Company, of 4401 North 43rd Street, Omaha 11, Nebraska, has filed a petition for cancellation of Trade-Mark Registration No. 351,588 of Herman P. Knoble, of 1429 West 81st Street, Cleveland, Ohio, registered November 2, 1937, and notice of such proceeding has been sent by registered mail to the said Herman P. Knoble at the said address and has been returned by the Post Office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforementioned cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 16.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

May 21, 1953.

671 O. G.—60

Classification Order No. 145

May 29, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH CLASS

225—DISPENSING BEVERAGES (Division 35)

ABOLISH SUBCLASSES

In *Class 1, Nailing, Stapling and Clip Clenching* (Division 11)

Nailing and stapling implements
Nail driving
Magazine
Pneumatic
46.1

In *Class 252, Compositions* (Division 64)

Lubricants or separatants for moving solid surfaces and miscellaneous mineral oil compositions
12 Rigid forms

In *Class 308, Machine Elements, Bearings and Guides* (Division 45)

242 **Bearings, compositions and materials**

CHANGE SUBCLASS TITLES

In *Class 29, Metal Working* (Division 13), change the title of subclass 33 to read:

33 **Plural diverse manufacturing apparatus including metal shaping and/or assembly**

In *Class 132, Toilet* (Division 55), change the title of subclass 93 to read:

Toothpicks
93 Shapes

In *Class 160, Closures, Partitions and Panels, Flexible and Portable* (Division 53), change the title of subclass 405 to read:

405 **Miscellaneous and Processes of Using**

In *Class 230, Gas Pumps and Fans* (Division 9), change the titles of subclasses 133 and 238 to read:

Rotary
Elements
133 Liners and casings
Elements
238 Cylinders, liners and heads

CHANGE SUBCLASS TITLE AND POSITION

In *Class 1, Nailing, Stapling and Clip Clenching* (Division 11), change the title and position of subclass 44.5 as follows:

Nailing and stapling implements
Fluid actuated
44.5 By explosion

CHANGE SUBCLASS POSITION

In *Class 75, Metallurgy*, subclasses 200 to 227 should follow subclass 20 and should be moved one step to the right to be indented thereunder.

ESTABLISH SUBCLASSES

In *Class 1, Nailing, Stapling and Clip Clenching* (Division 11)

(S. M. NEWMAN and E. V. BENHAM, *Classifiers*)

Nailing and stapling implements
44.4 Fluid actuated (to follow unnumbered title NAILING AND STAPLING IMPLEMENTS)
49.9 Fastener holders for vibratory actuated implements (to follow subclass 49 and be coordinate with subclass 50)

In *Class 15, Brushing, Scrubbing and General Cleaning* (Division 27)

(M. P. SMITH and T. L. STAM, *Classifiers*)

Machines
3.5 With means to pass a solid cleaning agent and a fluid carrier through tubular work (to follow subclass 3.21)
3.51 With conservation or recovery of the cleaning agent
3.52 By attached line

In *Class 29, Metal Working* (Division 13)
(S. M. NEWMAN, *Classifier*)

Special work
24.5 Venetian blind assembly (to follow subclass 24)

In *Class 137, Fluid Handling* (Division 39)
(M. P. SMITH and T. L. STAM, *Classifiers*)

Processes
12.5 Carbonated beverage handling processes (to follow subclass 12)

Diverse fluid containing pressure systems
170.1 Foam control in gas charged liquids (to follow subclass 170)
170.2 Level or pressure responsive
170.3 Separate handling of foam
170.4 With conditioning trap or chamber
170.5 Recarbonation
170.6 With trap or chamber by-pass
Gas pressure storage over or displacement of liquid
207.5 With return of liquid to supply (to follow subclass 207)

In *Class 187, Elevators* (Division 26)
(W. F. PURNY, *Classifier*)

8.41 **Roadway vehicle type** (to follow subclass 8)
8.43 With jack superimposed on elevator
8.45 With adjustable integral elevating unit
8.47 With safety device
8.49 Locking means or additional support
8.5 Rack and detent (e. g., pawl and ratchet) lock
8.52 Wheel chocks or stops
8.54 Convertible, "run on" to and from "free wheel"
8.56 Vehicle operated
8.57 Expansible quadrilateral bar type
8.59 Four-poster type
8.61 With attached floor section
8.62 With pit closure operator
8.64 With rotation limiting means
8.65 With floor contacting guides
8.67 Adaptable to vehicles of different gauge
8.69 Gearing type elevating unit
8.71 Lever or linkage type elevating unit
8.72 Expansible quadrilateral type
8.74 Axle-engaging type
8.75 Adjustable
8.77 Loading guides

In *Class 222, Dispensing* (Division 35)
(M. P. SMITH and T. L. STAM, *Classifiers*)

Plural sources, compartments, containers and/or with spaced jacket
129.1 Cabinet type dispenser for single mixed drinks (to follow subclass 129)
129.2 One ingredient operates dispensing means for another
129.3 With ingredient charge measuring
129.4 Plural measured charges in single drink

In *Class 226, Filling and Closing Portable Receptacles* (Division 35)
(M. P. SMITH and T. L. STAM, *Classifiers*)

With fluent materials
Special types
46.1 Cup and beverage dispenser type (to follow subclass 46)
46.2 With interrelated cup and beverage dispenser controls
46.3 With cup positioning means
46.4 Non-gravity cup manipulation
46.5 With restricted access to filling position
46.6 Filling with plural materials

In *Class 252, Compositions* (Division 64)
(I. MARCUS and H. R. KOLLER, *Classifiers*)

Lubricants or separtants for moving solid surfaces and miscellaneous mineral oil compositions
12 Rigid lubricants and bearings containing fluent lubricants
12.2 Impregnated
12.4 With fibrous components
12.6 Organic fibrous components

CLASSES ARRANGED BY DIVISION

In Division 35:
Delete 225—DISPENSING BEVERAGES

CLASSES ARRANGED IN ALPHABETICAL ORDER

Delete 225—DISPENSING BEVERAGES..... 35

CLASSES ARRANGED IN NUMERICAL ORDER

Delete 225—DISPENSING BEVERAGES..... 35
Add 225—No Class

DISPOSITION OF ART IN ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
1	46.1	1	44.4, 49.9
225	1	62	Various
		222	Various
	8	137	170.1+
	9	137	170.1+
	12	15	3.51
		23	267
		134	93, 98
		137	207.5, 238+
	13	23	267+
	14	Various	Various
	21	226	46.1+
		99	275
		222	Various
	40	62	142+
		222	130, 131
252	12	252	12, 12.2, 12.4, 12.6
308	242	252	10, 11, 12, 12.2, 12.4, 12.6, 26, 29

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
1	44.4	1	46.1, 47, 48
	49.9		5, 46.1, 47
15	3.5	15	104.06
	3.51		104.06
		225	12
	3.52	15	104.06
29	24.5	160	405
		29	200+
137	12.5	225	1, 21
	170.1		21
	170.2		8, 9, 21
	170.3		8, 9
	170.4		9
	170.5		9, 21
	170.6		8, 9, 21
	207.5		12
187	8.41+	254	89+
222	129.1	225	21, 40
	129.2		21, 40
	129.3		21, 40
	129.4		21, 40
226	46.1	225	21
	46.2		21
	46.3		21
	46.4		21
	46.5		21
	46.6		21
252	12	252	12
		308	242
	12.2	252	12
		308	242
	12.4	252	12
		308	242
	12.6	252	12
		308	242

M. C. ROSA,
Executive Examiner.

Classification Order No. 146

The following transfer is hereby directed to take effect on Monday, June 1, 1953:

Class 346, Recorders, from Division 37 to 16.

M. C. ROSA,
Executive Examiner.

May 20, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

The General Electric Company, insofar as it has the right to do so, is prepared to grant non-exclusive licenses under the following 50 patents, upon reasonable terms, to domestic manufacturers.

Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

CONTROL CIRCUITS AND SYSTEMS AND PROTECTIVE DEVICES AND ARRANGEMENTS, INCLUDING SWITCHING DEVICES, CIRCUIT BREAKERS, LIGHTNING ARRESTERS, AND RECTIFYING ELEMENTS AND SYSTEMS

(Group 36—11—19)

Pat. 2,053,133. Rectification of Alternating Currents. Sept. 1, 1936. Reg. No. 50,865.

Pat. 2,078,110. Igniting System. Apr. 20, 1937. Reg. No. 50,866.

Pat. 2,116,709. Electrical Switch of the Fluid Flow Type. May 10, 1938. Reg. No. 50,867.

Pat. 2,117,862. Circuit Breaker. May 17, 1938. Reg. No. 50,868.

Pat. 2,141,937. Electric Phase Shifting Circuits. Dec. 27, 1938. Reg. No. 50,869.

Pat. 2,157,907. Fuse. May 9, 1939. Reg. No. 50,870.

Pat. 2,165,976. Excitation System for Dynamo-Electric Machines. July 11, 1939. Reg. No. 50,871.

Pat. 2,166,785. Synchronising Apparatus. July 18, 1939. Reg. No. 50,872.

Pat. 2,180,147. Electric Circuit Interrupter. Nov. 14, 1939. Reg. No. 50,873.

Pat. 2,180,192. Protection of Alternating Current Systems. Nov. 14, 1939. Reg. No. 50,874.

Pat. 2,194,308. Electric Valve Circuit. Mar. 19, 1940. Reg. No. 50,875.

Pat. 2,201,829. Protective Apparatus. May 21, 1940. Reg. No. 50,876.

Pat. 2,212,399. Protection of Alternating Current Electric Systems. Aug. 20, 1940. Reg. No. 50,877.

Pat. 2,222,720. Electric Valve Circuits. Nov. 26, 1940. Reg. No. 50,878.

Pat. 2,230,731. Electric Control System. Feb. 4, 1941. Reg. No. 50,879.

Pat. 2,237,802. Method of Treating Dry Plate Elements. Apr. 8, 1941. Reg. No. 50,880.

Pat. 2,247,815. Plural Break Circuit Interrupter. July 1, 1941. Reg. No. 50,881.

Pat. 2,279,051. Protective Device. Apr. 7, 1942. Reg. No. 50,882.

Pat. 2,281,337. Circuit Breaker Fluid Pressure Operated System. Apr. 28, 1942. Reg. No. 50,883.

Pat. 2,282,065. Electromagnetic Device. May 5, 1942. Reg. No. 50,884.

Pat. 2,285,198. Lightning Arrester. June 2, 1942. Reg. No. 50,885.

Pat. 2,308,214. Fluid Pressure Operated Mechanism for Circuit Breakers. Jan. 12, 1943. Reg. No. 50,886.

Pat. 2,341,326. Switching Device. Feb. 8, 1944. Reg. No. 50,887.

Pat. 2,355,727. Electric Control Circuits. Aug. 15, 1944. Reg. No. 50,888.

Pat. 2,356,589. Electric Valve Circuits. Aug. 22, 1944. Reg. No. 50,889.

MEASURING INSTRUMENTS AND RECORDING APPARATUS

(Groups 36—13; 39—11)

Pat. 2,137,878. Direct-Current Measuring Means. Nov. 22, 1938. Reg. No. 50,890.

Pat. 2,153,377. Direct-Current Measurement Means. Apr. 4, 1939. Reg. No. 50,891.

Pat. 2,153,378. Current Responsive Arrangement. Apr. 4, 1939. Reg. No. 50,892.

Pat. 2,197,635. Temperature Measurement and Control. Apr. 16, 1940. Reg. No. 50,893.

Pat. 2,213,086. Current Responsive Instrument. Aug. 27, 1940. Reg. No. 50,894.

Pat. 2,249,452. Electrical Measuring Apparatus. July 15, 1941. Reg. No. 50,895.

Pat. 2,259,139. Recording Apparatus. Oct. 14, 1941. Reg. No. 50,896.

Pat. 2,293,502. Electric Measuring Apparatus. Aug. 18, 1942. Reg. No. 50,897.

ELECTRON MICROSCOPES

(Group 39—13)

Pat. 2,238,577. Electron Microscope. Apr. 15, 1941. Reg. No. 50,898.

Pat. 2,249,453. Electron Microscope. July 15, 1941. Reg. No. 50,899.

Pat. 2,259,994. Electron Microscope. Oct. 21, 1941. Reg. No. 50,900.

Pat. 2,260,041. Electron Microscope. Oct. 21, 1941. Reg. No. 50,901.

INSULATING COMPOSITIONS AND GLASS

(Groups 28—83; 32—29—64; 36—11)

Pat. 2,200,958. Glass for Gaseous Electric Discharge Devices. May 14, 1940. Reg. No. 50,902.

Pat. 2,247,064. Electrically Insulating Composition. June 24, 1941. Reg. No. 50,903.

Pat. 2,260,034. Ceramic Materials. Oct. 21, 1941. Reg. No. 50,904.

MISCELLANEOUS APPARATUS

Pat. 2,069,656. Ticket Printing Machine. Feb. 2, 1937. Ticket printing machine comprising a printing drum with adjustable type carriers includes means within the drum for automatically locking the pawls of ratchet wheels for the type carriers. Group 35—55. Reg. No. 50,905.

Pat. 2,106,040. Blower Rotor for Very High Peripheral Velocity. Jan. 18, 1938. Blower rotor includes short guide vanes within the rotor passages and at the outlet of the passages to avoid eddies in the fluid passing through the blower. Group 35—64. Reg. No. 50,906.

Pat. 2,128,117. Arc Discharge Apparatus. Aug. 23, 1938. Electric discharge device in which the application of the anode voltage is delayed until the cathode has reached predetermined and uniform temperature. Group 36—19. Reg. No. 50,907.

Pat. 2,144,320. Electric Discharge Apparatus. Jan. 17, 1939. Electric discharge device includes an electromagnetic vibrator for producing a higher voltage across the device to effect starting thereof, the vibrator being rendered inoperative as soon as the discharge starts. Group 36—19—51. Reg. No. 50,908.

Pat. 2,192,751. Joining of Aluminum Parts to One Another or to Other Metal Parts. Mar. 5, 1940. Method of connecting two aluminum parts to provide good electrical contact between them comprises soldering a thin layer of copper to the contact surface of each part, and applying pressure to the copper layers and holding the aluminum parts in desired position. Group 36—11. Reg. No. 50,909.

Pat. 2,196,855. Protective Coating for Copper Wires. Apr. 9, 1940. Electrical conductor having an outer rubber insulating coating and an intermediate protective adherent coating of a lead-tin-antimony alloy. Group 36—21. Reg. No. 50,910.

Pat. 2,303,893. Dynamo-Electric Machine. Dec. 1, 1942. Permanent magnet excited dynamo-electric machine is provided with a reinforcing arrangement around the permanent magnet alloy to overcome the possibility of fracture of the alloy when the machine is subjected to considerable impact and vibration. Group 36—19. Reg. No. 50,911.

Pat. 2,306,211. Grading Apparatus. Dec. 22, 1942. Grading apparatus for classifying metal sheets according to their gauge as they are sheared from strip, and deviating the non-normal sheets from the normal sheets. Group 36—13. Reg. No. 50,912.

Pat. 2,320,208. Contact Amplifier. May 25, 1943. Device for amplifying contact pressure of a contact-making instrument having a pair of contacts connected in series with a device to be controlled by the contacts. Group 36—13. Reg. No. 50,913.

Pat. 2,341,903. Transformer. Feb. 15, 1944. Large capacity transformer to be transported by drop center railway car is designed to eliminate the necessity of providing the car with a transverse supporting platform, thus permitting maximum utilization of the shipping route clearances. Group 36—19. Reg. No. 50,914.

United States Government Owned Patents

The following nine patents (granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757) are the property of the United States of America as represented by the Secretary of the Interior, by virtue of assignments from the inventors Charles Kenneth Ellerts (Re. 23,583), Lawrence H. Harrison (Pat. 2,595,251), Wallace F. Wyman, Wallace J. Wyman, and Alexander E. Back (Pat. 2,600,456), Donald L. Wylie (Pat. 2,601,354), Willfred C. Blackburn (Pat. 2,618,570), Jonathan D. Lankford, Fred J. Trotter, and Fred W. Taylor (Pat. 2,620,933), Robert S. James (Pat. 2,620,982), John D. Bardill (Pat. 2,621,022), and Russell C. Buehl (Pat. 2,621,234). Nonexclusive and royalty-free licenses are available. Applications for licenses should be directed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Re. 23,583. Apparatus for Use in the Treatment of Oil, Gas, and Gas Condensate Wells. Reissued Nov. 18, 1952. (Original No. 2,588,369, dated Mar. 11, 1952.). Attachment for introducing reagents into the flow string of a well while maintaining well production during the treatment. A magazine assembly having a plug cock valve at the upper end is co-axially secured to the upper end of a tubular conduit of the Christmas tree assembly of the well equipment. A head valve is provided in the tubular conduit below the magazine assembly. A pipe communicating with the magazine below the plug cock valve is provided with a pressure regulating valve and a pressure gauge. The head valve is closed and the plug cock valve is opened to introduce reagents into the magazine. The plug cock valve is then closed and the pressure regulating valve is opened. The head valve is then opened to allow the pressure to equalize in the flow string and magazine and permit the reagents to pass down into the flow string for dissolving obstructing incrustations therein. Group 35—32. Reg. No. 50,915.

Pat. 2,595,251. Short-Circuiting Contactor for Direct-Current Circuits. Patented May 6, 1952. Short circuiting contactor for direct current circuits of an electrical distribution system in mines consists of a coil which connects a low potential transmission wire with the metal frame of a utilizing device, and a pair of axially movable cores within the coil normally separated but arranged for rapid closing when the current in the coil exceeds a predetermined value. One of the cores is connected to the low potential wire and the other to a high potential wire through a safety device which is between the high potential wire and the utilizing device. The safety device is located remotely from the utilizing device and is arranged to open when the current through the safety device exceeds a predetermined value. Group 36—19. Reg. No. 50,916.

Pat. 2,600,456. Promotion of Dithionate Ion Formation in Leaching Oxidic Manganese Ores With Sulfur Dioxide Solutions. Patented June 17, 1952. Process for the recovery of manganese values from oxidic manganese ores, comprising the steps of forming a slurry of manganese ore, treating the slurry with sulfur dioxide, separating the insoluble material from the solution, and precipitating manganese values from the solution, is improved by adding petroleum fractions so as to promote dithionate ion formation in the sulfur dioxide reaction. Group 28—89. Reg. No. 50,917.

Pat. 2,601,354. Electronic Differential Relay System. Patented June 24, 1952. Protective relay system includes means for deriving at each end of a transmission line a single phase current responsive to the phase conditions, and for deriving voltages respectively proportional to the sum of and the difference between the phase currents, and a pair of adjustable triodes respectively controlled by the derived voltages. Means are provided for varying the outputs of a pair of triodes respectively controlled by the derived voltages, and for segregating and rectifying the outputs and applying the rectified components to the grids of a tetrode to negatively bias one of the grids and restrain firing and to positively bias the other grid and promote firing. Group 36—19. Reg. No. 50,918.

Pat. 2,618,570. Process for Preparing a Grouting Fluid. Patented Nov. 18, 1952. Process for preparing a fluid, substantially non-corrosive grouting composition of selectable setting rate. About 50 volumes of tetraethyl orthosilicate with about 30 volumes of 95% ethyl alcohol and about one volume of water are mixed together and allowed to stand at least twenty-four hours to partially hydrolyze the tetraethyl silicate and insure equilibrium of the hydrolysis reactions. The resulting partially hydrolyzed solution is then mixed with an aqueous alkaline solution having a pH of at least 9.0 and containing from about 0.01 to about 30% of an alkaline compound, whereby the setting period of the composition is variable from substantially instantaneous by mixing with the more concentrated alkaline solution to a period of several days by mixing with the less concentrated alkaline solution. Groups 28—83; 32—41—71. Reg. No. 50,919.

Pat. 2,620,933. Solids Level Control. Patented Dec. 9, 1952. Device for maintaining a predetermined level of particulate solid material, such as crushed oil shale, in a container includes a piston located adjacent an opening in the side wall of the container and continuously operated driving means for reciprocating the piston laterally into and out of the container at regular predetermined time intervals as long as the level of the material is below the piston. An electronic timer senses reciprocation of the piston and controls a motor for operating feeding mechanism for delivering material into the container. When the level of the material rises above a predetermined point, it prevents the piston from entering the container and stops reciprocation of the piston. After a lapse of a predetermined time interval, longer than the time required for the piston to complete at least one reciprocation, the electronic timer opens a relay to shut off current to the motor. Group 28—86. Reg. No. 50,920.

Pat. 2,620,982. Count Predeterminator for Automatic Gas Controls. Patented Dec. 9, 1952. Device may be preset to pass any elected predetermined amount of gas through a valve, and is particularly useful for providing a gassy atmosphere in a test gallery to test electrical mining equipment. After the valve has been preset, the device will automatically open the valve, tally the meter revolutions of a meter not equipped with a cumulative counter, and will automatically close the valve. The device also operates a blower for mixing the gas and air in the gallery, and automatically resets itself to zero after the valve has been closed. Group 36—13. Reg. No. 50,921.

Pat. 2,621,022. Method of Drilling Overburden, Unconsolidated Rock Formation or Placer Ground With Low-Temperature Freezing Fluids. Patented Dec. 9, 1952. Method of drilling in which circulating refrigerated kerosene is employed to freeze the walls of the drill hole. The kerosene at a remote point from the drill hole is subjected only directly to solid carbon dioxide during its evaporation to lower the temperature of the kerosene below the freezing point of water, and generally in a range of from −10° F. to about −50° F. The moisture-containing walls of the drill hole are then subjected to the action of the chilled kerosene, the kerosene being substantially non-miscible with the ground moisture, whereby the walls are frozen without the kerosene being frozen. The kerosene is refrigerated for each succeeding cycle. Group 35—32. Reg. No. 50,922.

Pat. 2,621,234. Instrument for Measuring the Carbon Content of Steel. Patented Dec. 9, 1952. Instrument for measuring the magnetic properties of a sample of metal gives a constant meter reading rather than requiring a reading from an oscillating meter pointer, and requires no batteries or outside connections to a source of electric power. The instrument comprises a steel case containing a meter with an adjustable vertically positioned magnet at one side of the meter and an adjustable pole piece above the magnet. The meter consists of a movable magnetic vane fixed to a shaft on which the meter pointer is mounted and a stationary magnetic vane. Aligned openings are provided in pole pieces below the meter and the magnet and in the case to accommodate a sample to be tested. A second magnet in the case is positioned on the side of the meter opposite the first magnet to compensate for deflection of the pointer when there is no sample in the instrument. Group 36—13. Reg. No. 50,923.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 23, 1953

[VOL. 671. NO. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 590,255. Camden Park Greenhouses, Braham, Minn. Filed Jan. 3, 1950.

SLEEPING SEEDS

The word "Seeds" is disclaimed apart from the mark as shown.

For Hoz Containing Earth With a Layer of Seeds on the Top Thereof in Position To Start Growing When Water Is Added.

Claims use since January 1948.

Ser. No. 624,754. J. C. Oliger Seed Company, Akron, Ohio. Filed Feb. 9, 1952. (Sec. 2f.)

Oliger

For Lawn Seeds and Field Seeds.

Claims use since Aug. 1, 1941.

Ser. No. 625,178. Weyerhaeuser Timber Company, Tacoma, Wash. Filed Feb. 18, 1952.

SILVALOY

For Chemically Impregnated Whole Wood Fiber Adapted To Be Molded Into Shaped Articles by the Simultaneous Application of Heat and Pressure.

Claims use since Nov. 10, 1950.

Ser. No. 627,189. H. Homan & Co. N. V., Oegstgeest, Netherlands. Filed Mar. 28, 1952.



The representation of the girl is fanciful. The words "Dutch" and "Bulbs" are disclaimed apart from the mark as shown.

For Flower Bulbs.

Claims use since May 30, 1951; and first used in commerce between Holland and the United States on Mar. 8, 1952.

Ser. No. 632,487. Peabody Coal Company, Chicago, Ill. Filed July 12, 1952.

DYNAMO

For Coal.

Claims use since June 30, 1952.

Ser. No. 634,478. Philipp Brothers Chemicals, Inc., New York, N. Y. Filed Aug. 20, 1952.



The drawing is lined for shading only.

For Arabic, Copal, Karaya, Locust Bean, Tall Oil, Gum and Wood Rosin, Natural Resins, and Tragacanth Gums.

Claims use since Apr. 1, 1929.

Ser. No. 636,414. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Oct. 9, 1952. (Sec. 2f.)

EASTMAN

Applicant claims ownership of Registrations Nos. 298,573, 397,047, and 403,172.

For Synthetic Staple Fiber.

Claims use since Jan. 9, 1939.

Ser. No. 636,518. Featherland Farm Incorporated, Sudbury, Mass. Filed Oct. 11, 1952.

Featherland Farm

For Baby Chicks and Hatching Eggs.

Claims use since January 1938.

Ser. No. 638,048. American Sponge and Chamois Company, Inc., New York, N. Y. Filed Nov. 14, 1952.

WEAREVER

For Chamois Skins.

Claims use since June 1948.

Ser. No. 638,217. Sinclair Coal Company, Kansas City, Mo. Filed Nov. 17, 1952.



The drawing is lined for red.
For Coal.
Claims use since Sept. 22, 1952.

Ser. No. 638,367. Kingsford Chemical Co., Iron Mountain, Mich. Filed Nov. 20, 1952.

KINGSFORD

For Charcoal Briquets.
Claims use since Dec. 17, 1951.

Ser. No. 638,497. Seneca Coal & Iron Corporation, New York, N. Y. Filed Nov. 22, 1952.



Applicant claims ownership of Registration No. 514,111.
For Coal and Coke.
Claims use since Aug. 1, 1937, in the form shown; the word "Seneca" having been first used in April 1917.

Ser. No. 638,533. The Great Western Sugar Company, Denver, Colo. Filed Nov. 24, 1952.

GW 201

Applicant claims ownership of Registrations Nos. 510,987, 510,988, and 541,013.
For Beet Seed.
Claims use since in the year 1944.

Ser. No. 638,534. The Great Western Sugar Company, Denver, Colo. Filed Nov. 24, 1952.

GW 304

Applicant claims ownership of Registrations Nos. 510,987, 510,988, and 541,013.
For Beet Seed.
Claims use since in the year 1949.

Ser. No. 638,535. The Great Western Sugar Company, Denver, Colo. Filed Nov. 24, 1952.

GW 359

Applicant claims ownership of Registrations Nos. 510,987, 510,988, and 541,013.
For Beet Seed.
Claims use since in the year 1951.

Ser. No. 638,552. Power Coal Company, Kansas City, Mo. Filed Nov. 24, 1952.

POWER Coal

The words appearing in the drawing are disclaimed apart from the remaining part of the mark.
For Coal.
Claims use since Nov. 15, 1952.

Ser. No. 640,015. The Singer Manufacturing Company, Elizabeth, N. J. Filed Dec. 24, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.
For Thermoplastic Material in the Form of Sheets and Strips.
Claims use since 1940.

CLASS 2

RECEPTACLES

Ser. No. 616,980. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Filed July 26, 1951. (Sec. 2f.)

EMERALD

Applicant claims ownership of Registration No. 407,585.
For Paper Bags.
Claims use since 1927.

Ser. No. 616,987. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Filed July 26, 1951. (Sec. 2f.)

OHIO

Applicant claims ownership of Registration No. 421,405.
For Paper Bags.
Claims use since 1902.

Ser. No. 635,689. Better Packages, Incorporated, Shelton, Conn. Filed Sept. 24, 1952.



The picture is fanciful, and is not the portrait of any particular individual.
For Tape Dispensers for Serving Adhesive Tape, Sold Empty.
Claims use since in or about the year 1923.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 570,384. Schaik Chemical Company, Los Angeles, Calif. Filed Dec. 11, 1948.

WAXON

Applicant claims ownership of Registrations Nos. 305,066 and 531,987.
For Polishing Wax in Paste Form for Floors, Furniture, Linoleum, Woodwork, and the Like.
Claims use since Nov. 1, 1948.

Ser. No. 582,292. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")

BFG Goodrich

Applicant claims ownership of Registrations Nos. 64,990, 65,422, and others.
For Liquid and Paste Polish for Automobiles, Furniture, Leather, and the Like.
Claims use since November 1946.

Ser. No. 603,533. Lusto Company, Inc., Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois. Filed Sept. 14, 1950.

LUSTO

For Compound for Polishing Copper, Stainless Steel, Chrome, Brass, and Like Metals.
Claims use since May 20, 1950.

Ser. No. 628,314. The J. R. Watkins Company, Winona, Minn. Filed Apr. 18, 1952.

GLO-SHEEN

The word "Sheen" is disclaimed apart from the mark as shown in the drawing.
For Polish for All Painted, Enameled, Varnished, and Shellacked Wood and Metal Surfaces.
Claims use since Mar. 19, 1952.

Ser. No. 629,418. Behr-Manning Corporation, Troy, N. Y. Filed May 9, 1952. (Sec. 2f.)

BUFFEM

For Flexible and Inflexible Abrasives.
Claims use since in or before October 1924.

Ser. No. 635,828. Hanson-Van Winkle-Munning Company, Matawan, N. J. Filed Sept. 26, 1952.



The monogram consists of the letters "HVWM." Applicant claims ownership of Registration No. 258,325.
For Polishing, Brushing, and Buffing Wheels, and Compositions for Buffing, Polishing, and Like Purposes.
Claims use since on or about Dec. 15, 1927.

Ser. No. 636,323. The Davies-Young Soap Company, Dayton, Ohio. Filed Sept. 3, 1952.

BEAMAX

Applicant claims ownership of Registration No. 293,103.
For Prepared Liquid Wax and Water Emulsion Wax for Use on Floors and Other Surfaces.
Claims use since Nov. 13, 1931.

Ser. No. 637,374. Hollywood Shoe Polish, Inc., Richmond Hill, N. Y. Filed Oct. 30, 1952.

sani-black

The word "Black" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 398,047.
For Shoe Polish.
Claims use since Mar. 30, 1952.

Ser. No. 637,375. Hollywood Shoe Polish, Inc., Richmond Hill, N. Y. Filed Oct. 30, 1952.

sani-brown

The word "Brown" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 398,047.
For Shoe Polish.
Claims use since Mar. 30, 1952.

Ser. No. 639,171. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENCORK

Applicant claims ownership of Registrations Nos. 424,034 and 524,125.
For Wax for Preserving and Polishing Cork and Wood Floors.
Claims use since June 10, 1939.

CLASS 5

ADHESIVES

Ser. No. 582,291. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")

Applicant claims ownership of Registrations Nos. 393,533 and 427,173.
For Adhesives in Cement, Sheet, and Tape Form.
Claims use since November 1947 on the mark as shown; and since 1890 on the word "Goodrich."

Ser. No. 607,426. The General Tire & Rubber Company, Akron, Ohio. Filed Dec. 8, 1950.

Applicant claims ownership of Registrations Nos. 513,580 and 148,086.
For Cold Cure Adhesive Cement and Rim and Gasket Shellac Adhesive Compound.
Claims use since Mar. 30, 1948.

Ser. No. 633,629. Plastic Binding Corporation, Chicago, Ill. Filed Aug. 8, 1952.

The words "Liquid Cement" apart from the trade-mark as shown are disclaimed. Applicant claims ownership of Registration No. 520,567.
For Liquid Cementitious Adhesive for Use in the Book Making Arts.
Claims use since July 29, 1952.

Ser. No. 637,722. Reichhold Chemicals, Inc., Detroit, Mich. Filed Nov. 6, 1952.

WALLPOL

For Synthetic Resins and Solutions Containing the Same for Bonding, Laminating, and Adhesive Purposes.
Claims use since Oct. 29, 1952.

Ser. No. 638,103. Reichhold Chemicals, Inc., Detroit, Mich. Filed Nov. 14, 1952.

VINAMUL

For Synthetic Resins and Solutions Containing the Same for Bonding, Laminating, and Adhesive Purposes.
Claims use since Oct. 29, 1952.

Ser. No. 638,687. The Buckeye Products Company, Cincinnati, Ohio. Filed Nov. 28, 1952.

ECONOCORE

For Liquid Core Compound Used in Foundries as a Binder for the Sand.
Claims use since June 2, 1948.

Ser. No. 639,170. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENBASE

Applicant claims ownership of Registration No. 516,420.
For Adhesive Particularly for Use in Laying Floor and Wall Tile.
Claims use since Nov. 1, 1947.

Ser. No. 639,172. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENFAST

For Adhesive for Use in Installing Floor Tile.
Claims use since July 22, 1949.

Ser. No. 639,177. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENTILE

Applicant claims ownership of Registrations Nos. 438,899 and 344,245.
For Adhesives and Pastes Particularly for Use in Laying Floor and Wall Tile.
Claims use since Nov. 1, 1947.

Ser. No. 640,062. Polymark Limited, London, England. Filed Nov. 24, 1952.

No claim is made to the roll of tape apart from the mark as shown. Applicant claims ownership of British Registration No. 688,636, dated Apr. 28, 1950.
For Adhesive Tapes (Textile) for Use in Laundries for Attachment to Articles for Identification Purposes.

Ser. No. 641,197. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Jan. 23, 1953.

SCOTCH

The drawing is lined to indicate red, green, and black. The diagonal lines bisecting the green and black squares are white. The diagonal lines bisecting the red and black squares are green. Applicant claims ownership of Registrations Nos. 568,542, 551,728, and others.
For Rubber Adhesive.
Claims use since at least as early as Dec. 15, 1952.

Ser. No. 641,556. Larsen Products Corporation, Bethesda, Md. Filed Jan. 30, 1953.

PLASTER-WELD

The word "Plaster" is disclaimed apart from the mark.
For Adhesive Preparation for Bonding Two or More Surfaces Together.
Claims use since Feb. 28, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 575,424. Phillips Petroleum Company, Bartlesville, Okla. Filed Mar. 14, 1949. (Sec. 2f as to "Phillips.")

The drawing is lined for black and Maudarin orange. Applicant claims ownership of Registration No. 402,076.
For Carbon Compounding Material Used Principally as a Filler in Rubber or Synthetic Rubber.
Claims use since on or about Apr. 22, 1948.

Ser. No. 597,842. Red Dot Laboratories, Florence, S. C. Filed May 20, 1950.

The drawing is lined for red and yellow.
For Preparation for the Extermination of Roaches, Water Bugs, Ants, Flies, Mosquitoes, and Other Insects.
Claims use since Jan. 10, 1950.

Ser. No. 599,210. The American Agricultural Chemical Company, New York, N. Y. Filed June 16, 1950.

The words "American," "Quality," "Agricultural," "Chemical," and "Company" are disclaimed from registration hereunder, apart from the other features of the mark. Applicant claims ownership of Registration No. 241,537.
For Phosphorus; Compositions Containing Phosphorus in Combined Form—Viz., Phosphoric Acid, Phosphates, and Mineral Mixtures Predominantly Containing Phosphates; Finely Divided Carbon; and Calcium Arsenate.
Claims use since 1911.

Ser. No. 599,212. The American Agricultural Chemical Company, New York, N. Y. Filed June 16, 1950. (Sec. 2f.)

THE AMERICAN AGRICULTURAL CHEMICAL COMPANY

The words "Agricultural," "Chemical," and "Company" are disclaimed from registration hereunder apart from the other features of the mark. Applicant claims ownership of Registration No. 241,537.

For Phosphorus; Compositions Containing Phosphorus in Combined Form—Viz., Phosphoric Acid, Compounds of Phosphorus, Phosphates and Mineral Mixtures Predominantly Containing Phosphates; Finely Divided Carbon; and Calcium Arsenate.

Claims use since 1911.

Ser. No. 608,884. Joseph H. Fink, doing business as National Bird Control Laboratories, Chicago, Ill. Filed Jan. 17, 1951. (Sec. 2f.)



For Chemical Compounds To Repel Birds and Rodents.
Claims use since February 1950.

Ser. No. 620,852. Heyden Chemical Corporation, New York, N. Y. Filed Nov. 3, 1951.

PENTAFORM

Applicant claims ownership of Registrations Nos. 419,992 and 419,994.

For Synthetic Resinous Particles, Principally for Use as a Rubber Modifier.

Claims use since on or about Aug. 27, 1951.

Ser. No. 621,819. d-Con Company, Inc., Chicago, Ill. Filed Nov. 29, 1951.

d-CON
LUREX

Applicant claims ownership of Registration No. 556,650.

For Rodenticides.

Claims use since Jan. 12, 1951.

Ser. No. 624,223. Cambridge Industries Company, Cambridge, Mass. Filed Jan. 29, 1952.

RESOFLEX

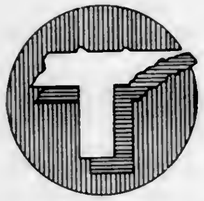
For Plasticizer.
Claims use since June 15, 1949.

Ser. No. 624,774. Bareco Oil Company, Tulsa, Okla. Filed Feb. 11, 1952.

VICTORY

For Microcrystalline Wax.
Claims use since Apr. 30, 1935.

Ser. No. 632,456. Tennessee Products & Chemical Corporation, Nashville, Tenn. Filed July 11, 1952.



The drawing is lined for the colors, blue and red.

For Acetic Acid, Benzoic Acid, Hydrochloric Acid, Methyl Acetone, Allyl Alcohol, Benzyl Alcohol, Sulfate of Ammonia, Benzaldehyde, Benzene, Benzene Hexachloride, Benzyl Benzoate, Sodium Benzoate, Benzotrichloride, Benzoyl Chloride, Benzyl Chloride, Benzal Chloride, Ferromanganese, Industrial and Domestic Gas, Methanol, Naphthalene, Hardwood Oils, Wood Preserver, Toluene, and Xylene.

Claims use since Apr. 1, 1951.

Ser. No. 632,639. United Wallpaper, Inc., Chicago, Ill. Filed July 16, 1952.

AURAPULP

For Color Pigments for Use in the Manufacture of Paints and Inks.
Claims use since Jan. 25, 1952.

Ser. No. 632,775. The Dow Chemical Company, Midland, Mich. Filed July 19, 1952.

DOWFROTH

Applicant claims ownership of Registration No. 140,588.

For Synthetic Organic Chemical Used as an Ore Flotation Agent.

Claims use since Jan. 18, 1952.

Ser. No. 634,807. Repello Products Company, Chicago, Ill. Filed Sept. 3, 1952.

CHLORO-LITE

For Odor Dispersing Candle.
Claims use since Nov. 14, 1951.

Ser. No. 635,200. Strohmeyer & Arpe Company, New York, N. Y. Filed Sept. 12, 1952.

BOXITE

Applicant claims ownership of Registration No. 90,390.

For Synthetic Waxes and Substitute Waxes.

Claims use since Sept. 4, 1952.

Ser. No. 636,557. The Dow Chemical Company, Midland, Mich. Filed Oct. 13, 1952.



For Synthetic Resinous Plastics—Namely, Polymerized Styrene, Polymerized Vinylidene Chloride, and Ethyl Cellulose, in the Form of Molding Granules and Molding Powder.

Claims use since April 1947.

Ser. No. 636,865. Swift & Company, Chicago, Ill. Filed Oct. 18, 1952. (Sec. 2f.)

SWIFT'S

For Wool Oil Used in Textile Operations.
Claims use since January 1947.

Ser. No. 637,721. Reichhold Chemicals, Inc., Detroit, Mich. Filed Nov. 6, 1952.

VINAMUL

For Synthetic Resins and Solutions Thereof.
Claims use since Oct. 29, 1952.

Ser. No. 637,723. Reichhold Chemicals, Inc., Detroit, Mich. Filed Nov. 6, 1952.

WALLPOL

Applicant claims ownership of Registration No. 571,669.

For Synthetic Resins and Solutions Thereof.

Claims use since Oct. 29, 1952.

Ser. No. 638,218. Spencer Chemical Company, Kansas City, Mo. Filed Nov. 17, 1952.

HO-NO-MO

For Weed Killer.
Claims use since Oct. 30, 1952.

Ser. No. 638,691. Cassella Farbwerke Mainkur, Frankfurt am Main Fechenheim, Germany. Filed Nov. 28, 1952.

CASSOPAR

Applicant claims ownership of Registration No. 568,255.

For Chemical Products for Use as Auxiliary Agents in the Textile Industry.

Claims use since Oct. 9, 1952.

Ser. No. 638,827. Godfrey L. Cabot, Inc., Boston, Mass. Filed Dec. 2, 1952.

ALON

The drawing is lined for silver, but this color is not considered an essential feature of the mark. Applicant claims ownership of Registration No. 522,600.

For Aluminum Oxide, a Mixture of Crystalline Form of Aluminum Oxide, a Highly Reactive Alumina of High Purity, for Use in the Preparation of Various Compounds of Aluminum, as a Support for Catalysts, as an Insecticide Carrier, and as an Acid Acceptor in Vulcanization of Certain Synthetic Rubbers.

Claims use since Aug. 3, 1948.

Ser. No. 639,460. Swan-Finch Oil Corporation, New York, N. Y. Filed Nov. 19, 1952.

SAFCO

Applicant claims ownership of Registrations Nos. 307,001, 363,784, and 425,344.

For Rust Preventives and Textile Processing Oils.

Claims use since Dec. 1, 1937.

Ser. No. 639,462. Swan-Finch Oil Corporation, New York, N. Y. Filed Nov. 19, 1952.

MOTUL

Applicant claims ownership of Registrations Nos. 120,791 and 263,472.

For Anti-Freeze Compounds.

Claims use since Dec. 9, 1948.

Ser. No. 639,607. Ansul Chemical Company, Marinette, Wis. Filed Dec. 17, 1952.



The mark consists of two superimposed circles slightly spaced from each other, the upper one being slightly smaller in diameter than the lower one, and a vertical bar positioned adjacent the right side of the circles slightly spaced therefrom giving the impression of a conventionalized letter "a."

For Liquid Sulfur Dioxide, Liquid Methyl Chloride, Comminuted Free-Flowing Fire-Extinguishing Dry Chemical.

Claims use since July 15, 1952.

Ser. No. 641,094. Scholler Brothers, Inc., Philadelphia, Pa. Filed Jan. 21, 1953.

"DUR-A-SEPTIC"

Applicant disclaims "A-septic" apart from the mark as shown.

For Antiseptic Treatment for Rayon, Nylon, Other Synthetic Fibers, Cotton, Wool, and Silk in the Form of Fiber, Roving, Sliver, and Fabric.

Claims use since on or about Aug. 28, 1952.

Ser. No. 641,287. Fred Fear & Co., Brooklyn, N. Y. Filed Jan. 26, 1953.

CHICK-CHICK

Applicant claims ownership of Registration No. 78,874.
For Coloring Dyes.
Claims use since February 1909.

Ser. No. 641,574. Reefer-Galler, Incorporated, New York, N. Y. Filed Jan. 30, 1953.

ROACH-FEL

Applicant disclaims the word "Roach" apart from the mark as shown.
For Insecticides.
Claims use since Oct. 2, 1952.

Ser. No. 642,014. Ciba Limited, Basel, Switzerland. Filed Feb. 10, 1953.

CUPRANONE

Priority under Sec. 44(d). Swiss application filed Nov. 10, 1952, Registration No. 144,267, dated Nov. 10, 1952. Applicant claims ownership of Swiss Registration No. 144,267, dated Nov. 10, 1952, and United States Registration Nos. 119,391 and 437,577.
For Coal Tar Colors.

Ser. No. 642,651. Hulman and Company, Rumford, R. I. Filed Feb. 24, 1953.

METAFOS

For Sodium Hexametaphosphate.
Claims use since Jan. 7, 1953.

Ser. No. 642,654. Ilford, Limited, Ilford, Essex, England. Filed Feb. 24, 1953.

Phenidone

Applicant claims ownership of British Registration No. 699,714, dated July 11, 1951.
For Photographic Developers.

Ser. No. 642,904. Quaker Chemical Products Corporation, Conshohocken, Pa. Filed Feb. 27, 1953.

QWENE

For Chemical Additives for Acid Pickling Baths.
Claims use since Feb. 5, 1953.

CLASS 7

CORDAGE

Ser. No. 642,106. Hanover Cordage Company, Hanover, Pa. Filed Jan. 19, 1953.

BEL-CA-TAN

For Coarse-Finish Twine.
Claims use since Mar. 1, 1927.

Ser. No. 642,107. Hanover Cordage Company, Hanover, Pa. Filed Jan. 19, 1953.

"ITA-LINE"

For Hemp Twine.
Claims use since June 10, 1928.

Ser. No. 642,108. Hanover Cordage Company, Hanover, Pa. Filed Jan. 19, 1953.

"JAV-AURITIUS"

For White-Fibre Twines.
Claims use since June 15, 1928.

Ser. No. 642,109. Hanover Cordage Company, Hanover, Pa. Filed Jan. 19, 1953.

"MEX-CILIAN"

For White-Fibre Twine.
Claims use since Feb. 2, 1928.

Ser. No. 642,110. Hanover Cordage Company, Hanover, Pa. Filed Jan. 19, 1953.

"SIM-BA"

For Twine.
Claims use since May 5, 1928.

Ser. No. 642,111. Hanover Cordage Company, Hanover, Pa. Filed Jan. 19, 1953.

"SYL-VANIA"

For Tube Rope, Wall-Paper Twine, Jute Wrapping Twine, and Jute Millers' Twine.
Claims use since May 2, 1927.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 588,647. Lumber Dealers, Inc., Denver and Pueblo, Colo., and Billings, Mont. Filed Dec. 1, 1949.

LDI

The drawing is lined for red, but the applicant claims exclusive right in the letters "LDI," irrespective of color or manner in which said letters are displayed.
For A. Insulation and Other Wall Board, Batt or Loose Insulation, Asphalt and Asbestos Roofing, Mail Boxes and Package Receivers for Permanent Installation, Caulking Compound, and Bathroom Medicine Cabinets for Permanent Installation; B. Wood Windows and Sash, Wood Window and Door Frames, Wood Window and Door Screens, Wood Doors and Plywood; C. Putty; D. Wood Moulding, Corrugated Iron Sheets for Roofs, Walls, and Partitions, Valley Tin for Roofs and Roof Gutters, Metal Lath, Fireplace Clean-Out Doors for Permanent Installation, Wood Dowels, Metal Moulding, Fibre Pipe for Construction Purposes, and Wire Mesh for Concrete Reinforcement.
Claims use since on or about Sept. 20, 1946.

Ser. No. 598,513. Tru-Fyre Laboratories, Los Angeles, Calif. Filed June 2, 1950.

Tru-Fyre

Applicant disclaims the exclusive use of the term "Fyre" apart from the mark as shown.
For Fired on Ceramic Color Glaze, Underglaze, Overglaze, and Luster Coatings.
Claims use since Nov. 18, 1947.

Ser. No. 604,312. Mineral-Ite Corp., Brigantine, N. J. Filed Oct. 2, 1950.

MINERAL-ITE

The word "Mineral" is disclaimed apart from the mark as shown.
For Self-Hardening Plastic-Surfacing Composition for Exterior and Interior Walls.
Claims use since on or about Aug. 25, 1950.

Ser. No. 608,182. The Trenton Corporation, Ann Arbor, Mich. Filed Dec. 28, 1950.

MUMMY WRAP

Applicant disclaims the word "Wrap."
For Flexible Protective Covering for Pipes Having a Continuous Coating Composed of a Petroleum Wax Composition and Enclosed by a Separate Wrapping of Corrosion-Resistant Material Composed of Metal Foil and/or Plastic Film.
Claims use since Sept. 20, 1950.

Ser. No. 610,168. Dexion Limited, London, England. Filed Feb. 16, 1951.

DEXION

Applicant claims ownership of British Registration No. 680,599, dated June 28, 1949.
For Metallic Structural Elements—Namely, Beams, Columns, Struts, and Ties, of Various Cross-Sectional Shapes, and for Nuts and Bolts for Assembling Same When Sold as a Unit With Said Elements.

Ser. No. 610,507. Brooks Paper Company, St. Louis, Mo. Filed Feb. 26, 1951. (Sec. 2f.)

SEAL FLAKES

For Comminuted Scrap Material Made From Cellulosic Sheets, Such as Cellophane and the Like, To Be Used as an Additive Ingredient for Incorporation in Drilling Muds for Oil Wells and Water Wells and in Oil Well and Water Well Cementing Mixtures.
Claims use since Sept. 7, 1943.

Ser. No. 613,678. Nova Sales Co., Trenton, N. J. Filed May 9, 1951.

NOVASCO

For Shingles and Doors.
Claims use since October 1949.

Ser. No. 621,870. Detroit Acoustical Contracting Co., Detroit, Mich., assignor to Rollform, Incorporated, Detroit, Mich., a corporation of Michigan. Filed Nov. 30, 1951.

ROLLFORM

For Fastening Unit To Be Used for Suspending or Furring Plasterboard Base Ceilings for Cemented or Screwed Acoustical Tile Application Consisting of the Following Elements: Nails, Butt-Joint Disks, Elongated Sheet-Metal Nailing Strips Formed To Receive and Retain Nails and the Like, and Relatively Short Sheet-Metal Splicing Pieces Formed To Interconnect Said Nailing Strips, Which Elements Usually Are Sold as a Complete Unit.
Claims use since Jan. 30, 1951.

Ser. No. 623,256. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed Jan. 5, 1952.

PENCHLOR

FCC

Applicant claims ownership of Registration No. 312,798.
For Construction Cement of the Hardened Silicate Type and Also for Certain Ingredients Therefor—Namely, a Mixture of Filler and Setting Agent Adapted To Be Admixed by the User With a Silicate Solution To Produce a Mortar for Forming Said Hardened Silicate Cement.
Claims use since Oct. 3, 1949.

Ser. No. 625,494. Spring Packing Corporation, Chicago, Ill. Filed Feb. 25, 1952.

SPRING-KOTE

No claim is made by applicant to the exclusive use of the word "Kote" alone.
For Waterproofing and Insulating Bituminous Composition for Application to Houses and Other Building Structures.
Claims use since Jan. 22, 1952.

Ser. No. 626,095. Mastic Asphalt Corporation, South Bend, Ind. Filed Mar. 7, 1952.

INSELSYDE

Applicant claims ownership of Registrations Nos. 295,711, 339,546, and 395,228.

For Insulating Siding Consisting of Fibrous Insulation Board Coated With Waterproof Material.

Claims use since Nov. 26, 1951.

Ser. No. 626,934. Davidson Plywood and Lumber Co., Los Angeles, Calif. Filed Mar. 24, 1952.

EtchWALL

The applicant hereby disclaims the word "Wall" apart from the mark as shown. Applicant claims ownership of Registration No. 540,356.

For Lumber and Plywood Having at Least One Surface Thereof Treated To Emphasize the Natural Grain.

Claims use since Mar. 1, 1951.

Ser. No. 627,519. Mexico Refractories Company, Mexico, Mo. Filed Apr. 3, 1952.

HELSKOTE

For Refractory Mixture for Coating Ingot Mould Stools.

Claims use since Jan. 31, 1952.

Ser. No. 627,676. Condu-Block Company, Seattle, Wash. Filed Apr. 7, 1952.

CONDU-BLOCK

The word "Block" is disclaimed separate and apart from the mark as shown.

For Concrete Blocks Used as Insulation for Underground Transmission Pipes.

Claims use since Nov. 1, 1951.

Ser. No. 628,003. Koppers Company, Inc., Pittsburgh, Pa. Filed Apr. 12, 1952.

Komac

For Bituminous Emulsions and Suspensions Used in Paving Construction, and Pre-Mix Paving Compositions Comprising Mineral Aggregate and Bituminous Binder.

Claims use since Oct. 30, 1951.

Ser. No. 629,441. Logan Co., Louisville, Ky. Filed May 9, 1952.

STAN-SIZE

The word "Size" is disclaimed apart from the mark as shown in the drawing.

For Metal Step Railings and Metal Porch Railings.

Claims use since in or about April 1949.

Ser. No. 634,611. Southwestern Portland Cement Company, Los Angeles, Calif. Filed Aug. 28, 1952.

SOUTHWESTERN PORTLAND CEMENT CO. MIAMI

No claim is made to the geographical terms "Fairborn, Ohio," and "Miami" or to the descriptive words "Portland Cement Co." apart from the mark shown. Applicant claims ownership of Registration No. 281,732.

For Cements—Namely, Portland Cement, Oil-Well Cement, Quick-Setting Cement, Masonry Cement, and Plastic Quick-Setting Cement for Forming Waterproof Concrete.

Claims use since in or about June 1925.

Ser. No. 635,593. Georgia Lumber and Veneer Corporation, Toomsboro, Ga. Filed Sept. 22, 1952.

LAM-I-PLY

The applicant does herewith disclaim apart from the mark as shown, the word "Ply" in the mark to the extent that it is descriptive of the goods.

For Plywood.

Claims use since during or about Aug. 28, 1952.

Ser. No. 635,605. Marsh Wall Products, Inc., Dover, Ohio. Filed Sept. 22, 1952.

KoreLock

The word "Lock" is disclaimed apart from the mark as shown.

For Fabricated Wall and Ceiling Panels.

Claims use since May 16, 1952.

Ser. No. 638,824. Acme Steel Company, Chicago, Ill. Filed Dec. 2, 1952.

ACME STEEL

For Floor Plates and Angle Plates.

Claims use since July 10, 1950.

Ser. No. 639,160. Delrac Corporation, Watertown, N. Y. Filed Dec. 8, 1952.

RESIMENT

For Resin Cement.

Claims use since July 1, 1952.

Ser. No. 639,298. Weather Products Corporation, Providence and Warwick, R. I. Filed Dec. 10, 1952.



For Storm Window and Screen Combinations.

Claims use since May 6, 1948.

Ser. No. 639,386. Panther Oil & Grease Mfg. Co., Fort Worth, Tex. Filed Dec. 12, 1952.

EAZYCRETE

For Asphalt Material for Resurfacing Concrete and Wood Floors.

Claims use since July 1, 1952.

Ser. No. 639,456. Safway Steel Products, Inc., Milwaukee, Wis. Filed Dec. 4, 1952.

SAFWAY

Applicant claims ownership of Registrations Nos. 333,604 and 346,868.

For Shores and Portable and Permanent Grandstands and Bleachers.

Claims use since June 1, 1935.

Ser. No. 639,811. Crown Zellerbach Corporation, San Francisco, Calif. Filed Dec. 20, 1952.

orzan

Applicant claims ownership of Registrations Nos. 565,362 and 566,702.

For Solids of Waste Sulfite Liquor for Use as a Road Binder.

Claims use since Nov. 6, 1951.

Ser. No. 640,160. Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif. Filed Dec. 30, 1952.

RIPPOLITE

For Structural Glass Panels.

Claims use since Dec. 16, 1952.

Ser. No. 640,543. Aztec Corporation, Philadelphia, Pa. Filed Jan. 9, 1953.



For Plastic Tile.

Claims use since Sept. 2, 1952.

Ser. No. 640,984. Vinyl Plastics, Inc., Sheboygan, Wis. Filed Jan. 19, 1953.

CONDUCTILE

For Plastic Floor Tile.

Claims use since June 30, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 579,866. Electric Steel Foundry, Portland, Oreg. Filed June 2, 1949.

ESCO

For Various and Sundry Metal Hooks—Namely, Choker Hooks, Butt Hooks, Drawbar Hooks, Logging Hooks, Loading Hooks, Logging Arch Hooks, Strawline Hooks, Guy Line Hooks, Sling Hooks, Cargo Hooks, Basket Hooks, and Ball-and-Socket Hooks; Fabricated Metal Pipe; Cast Metal Pipe; Metal Pipe Fittings; Metal Pipe Adapters; Metal Pipe Flanges; Blow-Off Pipe Metal Ferrules; Metal Shackles; Metal Chain; Chain Links; Hinge Links; Repair Links; Connecting Links; Splice Links; Log Haul Chains; Clevices; Swivels; Swivel Dees; Valves of General Application—Namely, Plug Valves, Gate Valves, Check Valves, Y Valves, Blow-Off Valves, Angle Valves; Hook-and-Link Assemblies; Hook-and-Clevice Assemblies; Swivel-and-Link Assemblies; Sled Plates; Metal Washers; Metal Welding Rings and Backing Flanges Adapted for Use as Flange Adjuncts With Metal Pipe; Rope Sockets; Anchor Chain; Bolts.

Claims use since Jan. 1, 1927.

Ser. No. 631,543. The Capewell Manufacturing Company, Hartford, Conn. Filed June 21, 1952.



For Parachute Hardware.

Claims use since on or before Sept. 21, 1944.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 623,880. Firth Sterling, Inc., Pittsburgh, Pa., by change of name from Firth Sterling Steel & Carbide Corporation. Filed Jan. 22, 1952.

VAN CHIP

Applicant claims ownership of Registrations Nos. 84,223, 238,338, and 361,076.

For Steel Bars of All Shapes and Sizes, Blocks, Steel Disks, Forgings, Short Pieces of Tool Steel Adapted To Be Made Up Into Cutting Bits and Known to the Trade as Tool Bits, Pieces of Steel, and for Steel Alloys in the Foregoing Shapes of the Type Commonly Known as High-Speed Steels.

Claims use since Nov. 9, 1951.

Ser. No. 624,836. Kennametal Inc., Latrobe, Pa. Filed Feb. 12, 1952.

KENTANIUM

For Titanium Carbon Compositions, and Particularly High Temperature Compositions Formed From Sintered Briquetted Powdered Titanium Carbide and Auxiliary Binding Metals of the Iron Group.

Claims use since July 27, 1951.

CLASS 15

OILS AND GREASES

Ser. No. 597,069. Deep Rock Oil Corporation, Tulsa, Okla. Filed May 8, 1950.



The drawing is lined for the colors blue and yellow but no claim is made to the color. Applicant claims ownership of Registrations Nos. 91,557, 316,832, and others.

For Lubricating Oil, Lubricating Greases, and Gasoline.

Claims use since Apr. 20, 1950.

Ser. No. 613,602. American Oil Company, Baltimore, Md. Filed May 9, 1951. (Sec. 2f.)

AMERICAN

Applicant claims ownership of Registrations Nos. 159,168, 161,415, and others.

For Gasoline, Kerosene, Lubricating Oils, Soluble Oil, Lubricating Greases, and Quenching Oil.

Claims use since 1910.

Ser. No. 622,311. Petroleum Solvents Corporation, New York, N. Y. Filed Dec. 10, 1951.

Petisol

For Oils—Namely, Penetrating Oils; Jet Fuel Additives, and Fuel Oil Treating Compounds—Namely, a Fuel-Oil Additive Which Is an Oil Base Solvent Product for the Elimination and Inhibiting of Sludges, Gums and Other Residual Compounds Forming in Fuel-Oil Burning Installations.

Claims use since Sept. 17, 1951.

Ser. No. 623,772. Alexander Mazurkiewicz, doing business as Petroleum Laboratories, Long Island City, N. Y. Filed Jan. 18, 1952.

CAT-ION

For Fuel Oil Additives and Combustion Catalysts of Metallo-Organic Salts, e. g., Catalytic Iron Salts of Organic Acids as, Oleates, Naphthalates, Etc.

Claims use since Sept. 5, 1951.

Ser. No. 627,358. Richfield Oil Corporation, Los Angeles, Calif. Filed Mar. 31, 1952.

SOLARITE

The word "Heat" is hereby disclaimed apart from the mark shown in the drawing.

For Additive for Heating Oils and Fuel Oils.

Claims use since Oct. 11, 1951.

Ser. No. 633,013. Tide Water Associated Oil Company, New York, N. Y. Filed July 24, 1952.

TYCOL
ANBURY

Applicant claims ownership of Registrations Nos. 197,753, 514,193, and others.

For Lubricating Grease.

Claims use since Apr. 23, 1948.

Ser. No. 634,480. Philipp Brothers Chemicals, Inc., New York, N. Y. Filed Aug. 26, 1952.

Phibro

The drawing is lined for shading only.

For Ceresin Wax and Paraffin Wax.

Claims use since Apr. 1, 1929.

Ser. No. 634,956. The AP Parts Corporation, Toledo, Ohio. Filed Sept. 8, 1952.

dgf

Applicant claims ownership of Registration No. 514,227.

For Solid Lubricant Dispersed in a Fluid Carrier.

Claims use since Apr. 28, 1950.

Ser. No. 635,879. Macmillan Petroleum Corporation, Los Angeles, Calif. Filed Sept. 27, 1952.

MACMILLAN

The drawing is lined to indicate red. The word "Macmillan" is disclaimed apart from the mark as depicted in the drawing. Applicant claims ownership of Registration No. 249,592.

For Lubricating Oils and Greases.

Claims use since Jan. 30, 1949.

Ser. No. 636,127. Hastoco Laboratories, Inc., Alexandria, La. Filed Oct. 3, 1952.

HASTO SPEED

For Gasoline Additive To Remove Carbon and Rust From Gasoline Motors.

Claims use since July 1, 1951.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 567,148. Loraine H. Korman, Chicago, Ill. Filed Oct. 18, 1948. (Sec. 2f.)

COLE'S C

Applicant claims ownership of Registration No. 324,464.

For Medicinal Salves.

Claims use since June 1889.

Ser. No. 606,791. Nopco Chemical Company, Harrison, N. J. Filed Nov. 22, 1950.

NOPCO

Applicant claims ownership of Registrations Nos. 315,931, 349,176, and others.

For Fat-Soluble Vitamin Concentrates, Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins, Riboflavin, Niacin, Choline Chloride, Calcium Pantothenate, and Sex Hormones.

Claims use since September 1947.

Ser. No. 612,029. Marvin Oppenheim, doing business as Precision Pharmacal, Cleveland Heights, Ohio. Filed Mar. 30, 1951.

TRILAD

For Antiseptic Emulsion for Protecting and Treating Minor Skin Irritations.

Claims use since Sept. 14, 1945.

Ser. No. 612,898. The Distillers Company (Biochemicals) Limited, Speke, Liverpool, England. Filed Apr. 20, 1951.

DISTAQUAINE

Applicant claims ownership of British Registration No. 685,950, dated Jan. 30, 1950.

For Antibiotic Preparation for Intramuscular Injection for Use in the Treatment of Diseases in Human Beings and Animals.

Ser. No. 613,146. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed Apr. 25, 1951.

PENTIDS

For Preparation for Treatment of and Prophylaxis Against Infections Due to Penicillin-Susceptible Organisms.

Claims use since Apr. 9, 1951.

Ser. No. 616,588. Crestmont Laboratories, Inc., Philadelphia, Pa. Filed July 17, 1951.

VegOrMin

For Pharmaceutical Preparation To Supply Minerals and Vitamins to the Body System.

Claims use since Feb. 3, 1951.

Ser. No. 618,073. Robert Miles Sherman, New York, N. Y. Filed Aug. 22, 1951.

STIM-U-TAB

The term "Tab" is hereby disclaimed.

For Medical Preparation, In Tablet or Capsule Form, for Human Consumption, Especially Prepared To Increase the Capacity for Muscular and Mental Work, Assist Diges-

tive Processes Through Stimulation of Gastric Secretion, Increase Memory Span and Rate of Adding, Relieve and Overcome Mental and Muscular Fatigue, Relieve Headache by Acting as a Vasodilator, Improve Subjective Feeling Tone.
Claims use since Mar. 10, 1950.

Ser. No. 621,899. The E. L. Patch Company, Stoneham, Mass. Filed Nov. 30, 1951.

BLUBAN

For Analeptic Tablet.
Claims use since Sept. 24, 1951.

Ser. No. 623,391. J. L. Auerbach, doing business under the name Ramazan Company, Los Angeles, Calif. Filed Jan. 10, 1952.

Ram-a-Zan

For Pills To Aid in Curbing the Appetite.
Claims use since Sept. 26, 1951.

Ser. No. 624,028. Jack Eisenberg, Miami, Fla. Filed Jan. 24, 1952.

WAKEEZ

For Tablets Used To Relieve Drowsiness and Mental Fatigue.
Claims use since Sept. 1, 1949.

Ser. No. 625,301. The Silf Co. Limited, London, England. Filed Feb. 20, 1952.

SILF

Applicant claims ownership of British Registration No. B543,062, dated July 14, 1933.
For Medicated Preparation for Human Use in the Treatment of Obesity.

Ser. No. 625,654. Benevim Corporation, New York, N. Y. Filed Feb. 28, 1952.

BeneVim

For Vitaminized Iron Tonic.
Claims use since June 19, 1951.

Ser. No. 626,300. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Mar. 12, 1952.

Asporcillin

For Antibiotic Derivative in Powder Form for Combating Organisms Responsible for Infectious Disease Processes.
Claims use since Dec. 27, 1951.

Ser. No. 626,301. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Mar. 12, 1952.

Aspormycin

For Antibiotic Derivative in Powder Form for Combating Organisms Responsible for Infectious Disease Processes.
Claims use since Dec. 27, 1951.

Ser. No. 627,054. Fairfield Laboratories, Inc., Plainfield, N. J. Filed Mar. 26, 1952.

PURITY CROSS

The word "Purity" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 216,478 and 408,164.
For Germicidal, Deodorant and Disinfectant Composition for Personal Hygiene and Pharmaceutical Uses.
Claims use since Oct. 1, 1949.

Ser. No. 627,314. S. O. Barnes & Son, Inc., Gardena, Calif. Filed Mar. 31, 1952.

SAMINAL

For Vitamin and Mineral Tablets.
Claims use since Mar. 7, 1952.

Ser. No. 627,918. Allied Drugs, Inc., Hackensack, N. J. Filed Apr. 11, 1952.

CHOLOLAX

For Preparation in Tablet Form for Indigestion Due to Over-Indulgence of Fats.
Claims use since June 15, 1950.

Ser. No. 627,934. Farmcraft Feeds, Inc., Des Moines, Iowa. Filed Apr. 11, 1952.

FARMTRATE

For Livestock and Poultry Feed Balancer or Supplement.
Claims use since Mar. 15, 1949.

Ser. No. 628,591. The Wander Company, doing business under the name Smith-Dorsey, Chicago, Ill. Filed Apr. 23, 1952.

DORSALLIN

For Antibiotic Preparation for Topical or Systemic Administration.
Claims use since Apr. 11, 1951.

Ser. No. 628,662. Ira Wetherill, doing business as The Rolophene Co., Independence, Mo. Filed Apr. 24, 1952.

DONOPHENE

For Medicine for Use as an Anti-Spasmodic.
Claims use since Apr. 7, 1952.

Ser. No. 629,285. Chemie Grunenthal G. m. b. H., Stolberg im Rheinland, Germany. Filed May 7, 1952.

Paratebin

Applicant claims ownership of German Registration No. 601,180, dated Sept. 13, 1950.
For Remedies for Tuberculosis.

Ser. No. 629,357. Ciba Limited, Basel, Switzerland. Filed May 8, 1952.

CIBACTHEN

Priority is claimed under Sec. 44(d). Swiss application filed Jan. 28, 1952; Registration No. 140,921, dated Jan. 28, 1952. Applicant claims ownership of Registration No. 184,201.
For Adrenocorticotropic Hormone.

Ser. No. 629,741. Marcelle Cosmetics, Inc., Chicago, Ill. Filed May 15, 1952.

DERMABASE

Marcelle

For Pharmaceutical Ointment.
Claims use since Apr. 16, 1952.

Ser. No. 630,121. Commercial Solvents Corporation, New York, N. Y. Filed May 23, 1952.

BIOREPO

For Antibiotic-Containing Composition for Veterinary Use.
Claims use since May 5, 1952.

Ser. No. 630,312. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed May 27, 1952.

PENGEAMINE

For Penicillin Preparation in Powder Form for Combating Organisms Responsible for Infectious Disease Processes.
Claims use since Jan. 28, 1952.

Ser. No. 630,595. W. S. Givler, doing business as Givler Products Company, Chicago, Ill. Filed June 2, 1952.

PURATONE

For Vitaminized Mineral Feed Supplements.
Claims use since Feb. 18, 1952.

Ser. No. 630,741. The Wander Company, Chicago, Ill. Filed June 4, 1952.

ALSICAL

Applicant claims ownership of Registration No. 543,461.
For Antacid, Sedative, and Anti-Spasmodic Preparation.
Claims use since Feb. 13, 1952; and in the hyphenated form "Al-Si-Cal" since Mar. 29, 1944.

Ser. No. 631,355. Larson Laboratories, Inc., Erie, Pa. Filed June 18, 1952.

foot note

Applicant disclaims the word "Foot" used apart from the goods.
For Medicated Foot Cream and Lotion for the Treatment or Prevention of Foot Ailments.
Claims use since Sept. 20, 1950.

Ser. No. 632,068. Ames Company, Inc., Elkhart, Ind. Filed July 2, 1952.

UCLOTEST

For Reagent Preparation for the Determination of Chlorides in Body Fluids.
Claims use since June 4, 1952.

Ser. No. 632,426. Jackson-Mitchell Pharmaceuticals, Inc., Culver City, Calif. Filed July 11, 1952.

BUCCASORBS

For Tablet Formulation Designed Particularly for Absorption of the Active Ingredient Through the Buccal Mucosa.
Claims use since Apr. 23, 1952.

Ser. No. 633,025. Lela S. Wier, doing business as Wonda Products Co., Jackson, Miss. Filed July 24, 1952.

Tri-Wonda

For Laxative Powder and Preparations for the Treatment of Simple Neuralgia and Muscular Aches, Pains, Soreness, Stiffness, and Swellings.
Claims use since Aug. 1, 1951.

Ser. No. 633,148. Drug Specialties, Inc., Winston-Salem, N. C. Filed July 28, 1952.

LANSTRONE CREAM

Applicant disclaims the word "Cream."
For Medical Preparation in Cream or Salve Form for Use in Treatment of Mammary Hypoplasia, Pruritus Vulvae, Kraurosis Vulvae, and Acne Vulgaris.
Claims use since June 1, 1947.

Ser. No. 633,592. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed Aug. 7, 1952.

TALSIGEL

For Antibacterial Preparation for the Treatment of Intestinal Conditions.
Claims use since July 30, 1952.

Ser. No. 633,950. Stuart Laboratories, Inc., Hempstead, N. Y. Filed Aug. 14, 1952.

alert-caps

The word "Caps" and the representation of the capsule are disclaimed apart from the mark as shown.
For Powders in Capsule Form, Constituting a Preparation for the Relief of Ulcers of the Stomach and Duodenum and for the Relief of Excessive Gastro-Intestinal Acidity.
Claims use since June 27, 1952.

Ser. No. 634,362. James H. Austin, doing business as J. H. Austin Company, Charlotte, N. C. Filed Aug. 23, 1952.

SED-A-PLEX

For Vitamin Preparation Incorporating a Sedative.
Claims use since July 7, 1952.

Ser. No. 635,068. R. J. Strasenburgh Company, Rochester, N. Y. Filed Sept. 9, 1952.

Strascogesic

Applicant claims ownership of Registration No. 414,744.
For Medicinal Preparation in Tablet Form, Useful in the Treatment of Colds, Pains, and for Other Purposes.
Claims use since June 8, 1952.

Ser. No. 635,206. Victor Drug Company, Chicago, Ill. Filed Sept. 12, 1952.

OINTMENT
500

Applicant disclaims the name of the goods appearing on the drawing.
For Medicinal Ointment.
Claims use since January 1948.

Ser. No. 635,232. Pharmaco, Inc., Kenilworth, N. J. Filed Sept. 13, 1952.

ORAGUM

For Oral Antiseptic, Deodorant Preparation in Chewing Gum Form.
Claims use since Aug. 22, 1952.

Ser. No. 635,284. American Cyanamid Company, New York, N. Y. Filed Sept. 16, 1952.

AUREOMAGMA

For Antibiotic.
Claims use since Aug. 26, 1952.

Ser. No. 635,318. D. Ransom, Son and Company, Buffalo, N. Y. Filed Sept. 16, 1952.

DERMADOR

For Liniment for Muscular Soreness, Cuts, Bruises, Sprains, Sunburn, and Frost Bites, and for an Eye Lotion for Care and Treatment of Eye Irritations.
Claims use since in the year 1868.

Ser. No. 635,320. D. Ransom, Son and Company, Buffalo, N. Y. Filed Sept. 16, 1952. (Sec. 2f.)

RANSOM'S

For Syrup Compound for Minor Coughs Due to Simple Colds.
Claims use since the year 1860.

Ser. No. 635,321. D. Ransom, Son and Company, Buffalo, N. Y. Filed Sept. 16, 1952. (Sec. 2f.)

TRASK'S

For Ointment for Muscular Aches and Pains, Minor Burns, and Minor Skin Irritations.
Claims use since the year 1846.

Ser. No. 635,326. Anthony Romeo, trading and doing business as Romeo's Hair Clinic, Camden, N. J. Filed Sept. 16, 1952.

Romeo's

For Home Treatment Kits, Containing Medicinal Ingredients for Treating the Scalp and Hair.
Claims use since Aug. 25, 1952.

Ser. No. 635,867. Abbott Laboratories, North Chicago, Ill. Filed Sept. 27, 1952.

Lotocreme

For Preparation for Bathing and Massaging the Skin To Aid in Preventing Bed Sores and Before Heat Treatment or Electrotherapy.
Claims use since Sept. 22, 1952.

Ser. No. 636,399. Schering Corporation, Bloomfield, N. J. Filed Oct. 10, 1952.

CORTOMYD

Applicant claims ownership of Registration No. 548,401.
For Ophthalmic Preparation.
Claims use since Aug. 8, 1952.

Ser. No. 636,759. Abbott Laboratories, North Chicago, Ill. Filed Oct. 17, 1952.

TOL - BLUE

Applicant disclaims the exclusive use of the word "Blue," apart from the mark as submitted in this application.
For Anti-Heparin Compound.
Claims use since Oct. 8, 1952.

Ser. No. 636,839. Clyserol Laboratories, Inc., Oklahoma City, Okla. Filed Oct. 18, 1952.

CLYSEROL

The lining in the drawing is for shading only.
For Liquid Enema Solution.
Claims use since Sept. 12, 1952.

Ser. No. 636,922. Chicago Pharmacal Company, Chicago, Ill. Filed Oct. 21, 1952.

JUNIPLEX

Applicant claims ownership of Registration No. 555,694.
For Medicinal Preparation in Tablet Form Adapted for Treatment of Red Blood Cell Deficiency Conditions and for Anemia and for Use as a Tonic and Diet Supplement.
Claims use since Apr. 20, 1951.

Ser. No. 637,215. Thymoborine Laboratory, Milwaukee, Wis. Filed Oct. 27, 1952.

Joy. O. Dent

The word "Dent" is disclaimed apart from the mark as shown.
For Antiseptic Solution Intended Especially for Use by Denture Wearers.
Claims use since Oct. 3, 1952.

Ser. No. 637,720. Red River Chemical Co, Philadelphia, Pa. Filed Nov. 6, 1952.



For Preparation for the Treatment of Athlete's Foot, Ringworm, and Other Fungicidal Infections.
Claims use since May 30, 1951.

Ser. No. 637,916. Drake Laboratories, Incorporated, Orange, N. J. Filed Nov. 12, 1952.

FYSIO

For Massage Lotion Used in the Treatment of Sprains, Strains, Bruises, and Contusions.
Claims use since Oct. 16, 1952.

Ser. No. 638,470. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Filed Nov. 22, 1952.

SUXALINE

For Medicinal Preparation for the Purpose of Producing Muscle Relaxation During Surgical Anesthesia and Shock Therapy and in Other Conditions in Which Such an Effect Is Desired.
Claims use since Oct. 23, 1952.

Ser. No. 638,546. Francis G. Nightingale, Waco, Tex. Filed Nov. 24, 1952.

"SOLUTEX"

For Preparation for Treatment of Gallstones.
Claims use since July 2, 1952.

Ser. No. 638,732. Thomas Medella, doing business as Thos. Medella Co., St. Paul, Minn. Filed Nov. 28, 1952.

CAHCETULA

For Preparation for Hair Treatment, Eczema, Skin Itch, Old Sores, Pile Sufferers, Athlete's Foot, and Dandruff.
Claims use since June 18, 1947.

Ser. No. 638,739. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Nov. 28, 1952.

VASOVERA

For Preparation Useful in the Treatment of Conditions of the Vascular System, Particularly Hyperplasia, and Having Rasodilator and/or Sedative Properties.
Claims use since Oct. 30, 1952.

Ser. No. 638,814. Schering Corporation, Bloomfield, N. J. Filed Dec. 1, 1952.

INTROPOL

For Sedative and Anti-Convulsant.
Claims use since Sept. 22, 1952.

Ser. No. 638,942. Armour and Company, Chicago, Ill. Filed Dec. 4, 1952.

MENAR

For Anti-Menorrhagic Factor.
Claims use since July 23, 1952.

Ser. No. 639,195. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Dec. 8, 1952.

MELOZETS

For Preparation for Use as a Dietary Adjunct in the Treatment of Obesity and/or as a Bulk Laxative.
Claims use since Oct. 1, 1952.

Ser. No. 639,292. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Dec. 10, 1952.

DIBENYLINE

Applicant claims ownership of Registrations Nos. 505,374 and 548,626.
For Sympatholytic and Adrenolytic Agent and as an Agent Affecting the Central Nervous System.
Claims use since Dec. 5, 1952.

Ser. No. 639,306. Allied Laboratories, Inc., Kansas City, Mo. Filed Dec. 11, 1952.

THAVERINE

For Preparation for Prophylactic Management of Ambulatory Patients With Coronary Insufficiency or Vascular Encephalopathies.
Claims use since Oct. 3, 1952.

Ser. No. 639,318. Eli Lilly and Company, Indianapolis, Ind. Filed Dec. 11, 1952.

AEROLONE COMPOUND

No property right is claimed in the word "Compound" and applicant hereby disclaims any right to said portion of the above trade-mark, apart from the mark as shown.
For Medicinal Preparation of Cyclopentamine and Aludrine Compound Used in the Treatment of Asthma and Various Other Forms of Spastic Bronchoconstriction.
Claims use since Sept. 10, 1951.

Ser. No. 640,590. The Superior Pharmacal Co., Dayton, Ohio. Filed Jan. 9, 1953.

DUENITE

For Hypnotic Tablet.
Claims use since Dec. 19, 1952.

Ser. No. 640,770. American Cyanamid Company, New York, N. Y. Filed Jan. 15, 1953.

PATHILON

Applicant claims ownership of Registrations Nos. 536,690 and 565,900.
For Anticholinergic Compound.
Claims use since Dec. 17, 1952.

CLASS 19

VEHICLES

Ser. No. 622,590. Charles R. Golay, doing business under the name and style of Converto Manufacturing Company, Cambridge City, Ind. Filed Dec. 17, 1951.

Converto

For Automotive Truck Bodies; Farm Wagons, Including Bodies and Boxes Assembled and Separately; Trailers for Hauling Goods Behind a Prime Mover.
Claims use since Apr. 1, 1939.

Ser. No. 630,360. Van Doorne's Aanhangwagenfabriek N. V., Eindhoven, Netherlands. Filed May 27, 1952.

Applicant claims ownership of Dutch Registration No. 110,592, dated Oct. 31, 1951.
For Automotive Vehicles of All Kinds—Namely, Passenger Cars, Trucks, Tractor Trucks, Motor Busses, Trolley Busses, Tank Vehicles, Refuse Collecting Vehicles for Municipal Services, Tipping (Dumping) Vehicles, Electric Automobiles, Semi-Trailers, Trailers, Railroad Cars, Farm Wagons; Vehicles for Military Purposes—Namely, Automobiles, Transport Vehicles With "Caterpiller" Treads, Ordnance Cars for Transportation Purposes, Personnel Carriers, Ammunition and Personnel Carriers, Automotive Trucks on Which Winches Are Applied, Airplane Refueling Trucks, Reconnaissance Cars, Military Supply Trailers, Army Training Cars, Squad Cars, General Purpose Military Cars, Scout Cars, Staff Cars, Semi-Trailers and Trailers, Amphibious Vehicles for Transportation, and Structural Parts for All of the Foregoing.

Ser. No. 643,576. Wheel Goods Corporation, Minneapolis, Minn. Filed Mar. 12, 1953.

PARLIAMENT

For Bicycles of the Adult Type.
Claims use since Dec. 22, 1952.

Ser. No. 643,577. Wheel Goods Corporation, Minneapolis, Minn. Filed Mar. 12, 1953.

ABBEY

For Bicycles of the Adult Type.
Claims use since Dec. 22, 1952.

Ser. No. 643,698. Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. Filed Mar. 16, 1953.

STAR

Applicant claims ownership of Registration No. 438,198.
For House Trailers.
Claims use since Nov. 1, 1945.

Ser. No. 643,700. Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. Filed Mar. 16, 1953.

DUO

For House Trailers.
Claims use since Feb. 1, 1944.

Ser. No. 643,701. Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. Filed Mar. 16, 1953.

PAN AMERICAN

For House Trailers.
Claims use since June 1, 1944.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 582,290. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")

BFG B.F.Goodrich

Applicant claims ownership of Registrations Nos. 388,625, 391,100, and others.
For Electrical Insulating Tape Solutions of Insulating Material for Coating Electric Conductors, Storage Batteries, and Spark Plugs.
Claims use since May 1948 on the mark as shown.

Ser. No. 605,515. General Electric Company, Schenectady, N. Y. Filed Oct. 26, 1950.

BLACK-DAYLITE

For Television Broadcast Receivers, and Radio and Phonograph Combinations, Incorporating Television Broadcast Receivers.
Claims use since on or about Oct. 2, 1950.

Ser. No. 608,298. Bendix Aviation Corporation, Detroit, Mich., and Teterboro, N. J. Filed Jan. 3, 1951.

PIONEER

Applicant claims ownership of Registrations Nos. 160,269, 197,167, and others.
For Electron Tubes of the Temperature Limited Diode Type and for Thermal Time Delay Tubes of the Temperature Resistance Type.
Claims use since about May 1948.

Ser. No. 621,739. Marvin Webster, doing business as a sole proprietorship known as Webster Manufacturing Co., San Francisco, Calif. Filed Nov. 27, 1951.

Web Wip

The word "Wip" is disclaimed apart from the mark as shown.
For Radio Antennas.
Claims use since Sept. 6, 1951.

Ser. No. 621,922. Telex, Inc., St. Paul, Minn. Filed Nov. 30, 1951.

DYNASET

For Headset Consisting of Earphones Used in Connection With Radio or Other Sound Reproducing Apparatus.
Claims use since Oct. 2, 1951.

Ser. No. 630,099. Snyder Mfg. Co., Philadelphia, Pa. Filed May 22, 1952.

Directronic

For Television Antenna.
Claims use since May 1951.

Ser. No. 630,944. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed June 9, 1952.



The mark comprises a Scotch Plaid Design. The accompanying drawing is lined to indicate the colors red, green and black. Those squares lined to indicate black are actually a screened printing of green over red. The superimposed diagonal lines bisecting the green and screened printed squares are white in color. The superimposed diagonal lines bisecting the red and screen printed squares are green in color. The label outline shown forms no part of the trade-mark.
For Electrical Insulating Plastic Sheet Material.
Claims use since at least as early as August 1948.

Ser. No. 635,517. C. N. Burman Co., Paterson, N. J. Filed Sept. 20, 1952.

Pickwick Products



The word "Products" is disclaimed apart from the mark as shown in the drawing.

For Electrical Table Lamps, Pinup Lamps, Floor Lamps, and Boudoir Lamps.

Claims use since March 1948.

Ser. No. 636,710. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Oct. 16, 1952. (Sec. 2f.)

Ingersoll-Rand

Applicant claims ownership of Registration No. 146,488.

For Portable, Hand Supported Electric Tools—Namely, Drills, Screw Drivers, Nut Runners, Wrenches, Grinders, Buffers, Wire Brushes, Angle Grinders, Sanders, and Polishers.

Claims use since November 1945.

Ser. No. 638,289. Lawrence M. Cohen, Greensboro, N. C. Filed Nov. 19, 1952.

Iceberg



For Electric Fans.

Claims use since Sept. 22, 1952.

Ser. No. 640,461. June Lamp Manufacturing Company, Baltimore, Md. Filed Jan. 7, 1953.

June

For Electric Table and Boudoir Lamps and Shades Therefor.

Claims use since Apr. 1, 1947.

Ser. No. 640,462. June Lamp Manufacturing Company, Baltimore, Md. Filed Jan. 7, 1953.

Ramona

For Electric Table and Boudoir Lamps and Shades Therefor.

Claims use since December 1949.

Ser. No. 640,557. Fansteel Metallurgical Corporation, North Chicago, Ill. Filed Jan. 9, 1953.

Fansteel Balkite

Applicant claims ownership of Registrations Nos. 176,071, 177,718, and others.

For Battery Charger Units, Rectifier Cells, Transformers, and Resistance Units, and Parts Thereof.

Claims use since in or about 1927.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 600,434. Heienhart Novelty Corporation, New York, N. Y. Filed July 10, 1950.

Puzzle King

The word "Puzzle" is disclaimed apart from the combination shown, the applicant reserving all common law rights.

For Molded Plastic Toys and Games Which Are Provided With Chains Which May Serve as Key Rings.

Claims use since Jan. 1, 1940.

Ser. No. 643,396. Louis Marx & Co., Inc., New York, N. Y. Filed Feb. 20, 1953.

DANIEL BOONE

The name "Daniel Boone" is that of the famous American frontiersman and explorer.

For Toy Pistol.

Claims use since Jan. 10, 1952.

Ser. No. 645,048. Mantua Metal Products Co., Inc., Woodbury Heights, N. J. Filed Apr. 10, 1953.

MANTUA

Applicant claims ownership of Registration No. 441,704.

For Model or Miniature Railway Cars and Equipment for Use as Toys.

Claims use since on or about Oct. 30, 1945.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 557,912. Du-Fast, Inc., New York, N. Y. Filed May 27, 1948.

DU-FAST

The applicant disclaims the word "Fast" apart from the mark as shown.

For Rubbing Machines—Namely, Rubbing Machines for Attachment to Power Drills.

Claims use since Feb. 20, 1948.

Ser. No. 576,208. Holley Carburetor Company, Detroit, Mich. Filed Mar. 28, 1949. (Sec. 2f.)

HOLLEY

Applicant claims ownership of Registration No. 188,941.

For Carburetors, Jet Engine Fuel Controls, Governors and Parts Thereof, for Engines.

Claims use since July 1, 1947, on the mark as shown; and since 1905 in another form.

Ser. No. 579,867. Electric Steel Foundry, Portland, Oreg. Filed June 2, 1949.

ESCO

For Pulp Mill Equipment—Namely, Digester Circulating Systems and Parts Thereof Consisting of Heater, Pump, Pipe Lines, and/or Digester; Logging Equipment—Namely, Choker Rigging Consisting of Lines, Pulley Block, Butt Hook, Choker Hook, and/or Ferrule, Main Line Rigging Consisting of Hinge Link, Shackle, and/or Three-Way Swivel, Log Skidding Pans, Skidding Pan Hitches, Sled Plates, Logging Trailer Lifting Attachments; Sawmill Equipment—Namely, Nigger Bars, Log Haul Slip Liners, Log Conveyor Flights, Log Haul Chairs, Log Conveyor Chain, Hog and Chipper Rotors and Parts Thereof, Conveyor Drums, Log Haul Foot Drums, Log Haul Idler Drums, Loading Arms, and Sawmill Deck Machinery and Parts Thereof; Dipper Buckets, Orange Peel Buckets, Hoe Buckets, Clamshell Buckets, Dragline Buckets, and Parts and Fittings and Accessories for the Same; Digger Teeth, Digger Tooth Points, Digger Tooth Adapters, Dragline Bucket Rigging Consisting of Dipper, Chain, Clevis, and/or Pulley; Grading Equipment for Railroads—Namely, Tractor Track Shoes Which Facilitate the Travel of Tractors on Railroad Rails, and Tractor-Carried Machines for Spreading Ballast and Smoothing Road Grades and Plowing Out Old Ballast and Performing Comparable Functions in the Construction and Reconstruction and Maintenance of Railroad Track; Crusher Jaws, Mantles, Concaves, Liners, Grates and Other Wear-Resisting Parts for Rock Crushing Machines; Wear Resistant Metal Plates and Strips Adapted To Be Welded to Bucket and Dipper Teeth and Tractor Treads To Accord Them Wear-Resistant Surfaces, Tractor Track Pads and Shoes; Blades for Bulldozers and Trail Builders; Blade Corner Bits for Bulldozers and Other Earth Moving Machines, Grouser Tips, Power Operated Valves, Pulley Blocks, Sprockets, Spur Gears, Bevel Gears, Mitre Gears, and Marlin Spikes.

Claims use since Aug. 22, 1928.

Ser. No. 582,179. Millers Falls Company, Greenfield, Mass. Filed July 19, 1949. (Sec. 2f.)

MILLERS FALLS

Applicant claims ownership of Registration No. 156,709.

For Planes; Braces; Auger Handles; Expansive Bits; Countersinks; Bit Extensions; Mitre Boxes; Saw Sets; Awls; Screw Drivers; Screw Driver Bits; Drills; Automatic, Hand, Breast, Chain; Carving Tools; Wood Scrapers; Centers; Face Plates; Taper Sleeves; Work Arbors; Wheel Arbors; Drill Pads; Shaper Collars; Shaper Cutters; Drill Press Adapters; Abrasive Disc Holders; Coping Saws; Coping Saw Blades; Forged Tools; Chisels, Cold, Cape, Square, Diamond Point; Punches; Center, Prick, Aligning, Pin, Solid, Cup; Star Drills; Steel Stamps; Letter Stamps, Figure Stamps; Nail Sets; Hollow Punches; Tap Holders; Chucks; Glass Cutters; Hack Saw Frames; Keyhole Hack Saws; Butcher Saw Frames; Butcher Saw Blades; Butcher Saw Coils; Butcher Saw Punches; Kitchen Saws; Polishing and Grinding Heads; Bench Vises; Hand Vises; Bench Drill Vises; Gasket Cutters; Bearing Scrapers; Brass Hammers; Wire Wheel Brushes; Hack Saws; Hack Saw Blades; Metal Cutting Band Saws.

Claims use since prior to 1922.

Ser. No. 603,872. E. F. Houghton & Co., Philadelphia, Pa. Filed Sept. 20, 1950.

PARATAN

For Textile Mill Leathers—Namely, Leather Check Straps for Use on Weaving Looms and Other Types of Textile Machinery.

Claims use since Aug. 2, 1950.

Ser. No. 605,111. W. Staunton Moylan, Philadelphia, Pa. Filed Oct. 18, 1950.

ZIP-STIK

The word "Stik" is disclaimed apart from the mark as a whole.

For Zipper Lubricating Device, Including a Generally Tubular Dispenser for Containing a Stick of Solid Lubricant, Which Tubular Dispenser Is Open at One End and Has Zipper-Receiving Recesses in the Open End Thereof and Has a Manually Operable Contents-Advancing Member Therein and a Cap Detachably Applicable to the Open End Thereof.

Claims use since June 23, 1950.

Ser. No. 620,738. Manufacture de Machines du Haut-Rhin, Mulhouse-Bourtzwiller (Haut-Rhin), France. Filed Oct. 31, 1951.

POLYGON

Applicant claims ownership of French Registration No. 2,043, dated Aug. 17, 1949.

For Machine Tools—Namely, Machine Tools for the Manufacture of Eccentrics and of Circular and Non-Circular Machine Parts and Cams.

Ser. No. 624,053. Schmetz Needle Corporation, New York, N. Y. Filed Jan. 24, 1952.



Applicant claims ownership of Registration No. 561,709.

For Sewing Machine Needles.

Claims use since Jan. 9, 1951.

Ser. No. 629,260. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 6, 1952.



The representation of the lady is fanciful. No claim is made to the representation of the sewing machine apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.

For Family and Commercial Sewing Machines; Darning, Embroidery, Article Fastening, Hemstitching, Buttonhole Making, Eyeletting, and Ornamental Stitching Machines; Bobbin Winding, Crimping, Strip Cutting, Pressing, Strip Winding, Thread Drawing, Trimming, Pleating, and Grinding Machines; Sewing Machine Needles; Air Blowing Apparatus Employed for Sewing Machine Needle Cooling and Lint Dispersing; Loop-Forming Implements in the Form of Guides About Which Threads and Yarn May Be Looped Before Stitching Same, Belt Punches, Honing Devices for Sharpening Knives and Blades, Belt Tighteners for Taking the Slack Out of Power Transmission Belts, Scissors, Pinking Shears, Wrenches, Belt Hooks for Securing Together the Ends of Power Transmission Belting, Screw Drivers, Hand and Power Operated Cloth Pinking Machines, C-Clamps, Cloth Grippers for Securing a Work-Piece to or Upon a Table, Work-Holding Implements for Maintaining a Work-Piece in Operative Relation With a Sewing Machine, Cutter Blades, Finger Guards in the Form of Wire or Glass Screens To Prevent an Operator's Fingers From Engaging a Moving Machine Element, Thread Lubricators in the Form of Glass or Metal Receptacles Adapted for Containing a Thread Lubricant, Stilettos, Tweezers for Sewing Use, and Seam Rippers in the Form of a Knife, Stocking Darners in the Form of a Material Supporting Frame for Presenting Material to a Sewing Machine and Fagotting Units About Which Cords May Be Wound Before Stitching Same; Sewing Machine Attachments—Namely, Embroidery, Edge Stitching, Multiple Slotted Binder, Blind Stitch, Zigzag Hemstitching, Buttonholder, Binding, Gathering, Hemming, Ruffling, Braiding, Blind-Stitch Braiding, Flange Hemming, Quilting, Shirring Plate, Tubular Trimming Tucking, Cording, Zipper Foot, Darning Foot, Underbraiding, Bias Gauge, Cloth Guiding, Bias Binding, Scroll Hemming, Ornamental Stitching, and Thread-Chain Cutting Attachments; Sewing Machine Power Tables, and Stands; Fitted Canvas and Bent Wooden Covers, and Portable Carrying Cases for Sewing Machines; and Grease Guns; and Parts Thereof.

Claims use since 1870.

Ser. No. 631,020. Theodore D. Oulman, doing business under the assumed name of Pronto Sales, Portland, Oreg. Filed June 10, 1952.



The word "Original" by itself apart from the trademark is disclaimed.

For Numbering Machines and Date Stamps.

Claims use since on or about Apr. 1, 1952.

Ser. No. 631,461. Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Filed June 20, 1952.



The drawing is lined for black. No claim is made to the word "Transmission" apart from the mark as a whole.

For Transmissions in Power Excavators.

Claims use since May 20, 1952.

Ser. No. 640,318. Ajax Iron Works, Corry, Pa. Filed Jan. 5, 1953.

AJAX

Applicant claims ownership of Registrations Nos. 166,251 and 444,302.

For Drilling Engines, Engine Pumps, and Parts Used in the Oil and Gas Industry; Gas Engines, Gasoline Engines, Oil Engines, Steam Engines, and Parts for the Said Various Engines; and Hydraulic Pumps and Hydraulic Pump Valves.

Claims use since in the year 1892.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 640,184. The American Laundry Machinery Company, Cincinnati, Ohio. Filed Dec. 31, 1952.

TEMCON

For Gas Heated Flatwork Ironer.

Claims use since Oct. 24, 1952.

Ser. No. 642,827. Marshall-Wells Company, Duluth, Minn. Filed Feb. 26, 1953.

ZENITH

Applicant claims ownership of Registrations Nos. 171,087, 336,889, and 378,244.

For Laundry Washing Machines and Laundry Dryers.

Claims use since Feb. 13, 1953.

Ser. No. 643,563. Spiegel, Inc., Chicago, Ill. Filed Mar. 12, 1953.



The surname "Spiegel" is hereby disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 421,853, 543,061, and 568,259.

For Electric Clothes Dryers, Gas Clothes Dryers, and Electric Ironers.

Claims use since on or about Oct. 1, 1950.

CLASS 25

LOCKS AND SAFES

Ser. No. 628,582. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.

SIMANCO

Applicant claims ownership of Registrations Nos. 91,518, 91,911, and 175,840.

For Locks and Keys.

Claims use since December 1912.

Ser. No. 643,152. General Motors Corporation, Detroit, Mich. Filed Mar. 5, 1953.



For Locks and Keys.

Claims use since August 1948.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 626,248. Herman A. Heise, Milwaukee, Wis. Filed Mar. 11, 1952.



The surname "Heise" is disclaimed apart from the mark as shown.

For Complementary Pairs of Magnetized Metallic Indicators, the Maguetic Elements of Each Pair Being Adapted To Be Mounted at Opposite Sides of a Relatively Thin Chart of Paper, or the Like, for Joint Movement Over the Surface Thereof in Such Manner as To Aid the Pilot of an Aircraft To Keep Track of the Airplane's Position During a Cross-Country Flight.

Claims use since April 1950.

Ser. No. 630,160. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 23, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,590, 49,600, and others.

For Thermoelectric Testing Devices for Providing a Temperature Indication of Needles and the Like Tools During the Operation Thereof and Measuring Devices—Namely, Yardsticks.

Claims use since prior to the year 1940.

Ser. No. 639,930. Dr. Edgar Gretener A. G., Zurich, Switzerland. Filed Dec. 23, 1952.

GREFA

Applicant claims ownership of Swiss Registration No. 142,325, dated Apr. 25, 1952.

For Photographic Films and Sensitized Photographic Papers.

Ser. No. 640,013. Servomechanisms, Inc., Westbury, N. Y. Filed Dec. 24, 1952.

mechatronics

For Analog Computers, Accelerometers, and Highly Calibrated Potentiometers.

Claims use since Nov. 20, 1952.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 592,356. Beehler & Black Clock Company, Chebeague Island, Maine. Filed Feb. 13, 1950.



Applicant hereby disclaims the use of the word "Time" except in conjunction with the word "Master" alone.

For Unassembled Clock Parts.

Claims use since Dec. 12, 1949.

Ser. No. 621,097. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California. Filed Nov. 10, 1951.

ANNIE OAKLEY

Among other meanings, the words "Annie Oakley" were the pseudonym of the famous woman sharp-shooter, Phoebe Mozee, now deceased.

For Watches.

Claims use since Nov. 1, 1951.

Ser. No. 639,514. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Travel Clocks.

Claims use since 1932.

Ser. No. 641,085. Popper Watch Co. Inc., New York, N. Y. Filed Jan. 21, 1953.

PAVO

For Watches.

Claims use since Nov. 1, 1951.

Ser. No. 642,831. Norman M. Morris Corporation, New York, N. Y. Filed Feb. 26, 1953.

CENTENARY

For Watches and Clocks.
Claims use since Dec. 15, 1947.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 615,724. Rondette, New York, N. Y. Filed June 26, 1951.

Rondette

For Jewelry for Personal Adornment, not Including Watches—Namely, Finger Rings, Watch Chains, Bracelets, Earrings, Decorative Pins, and Brooches.
Claims use since May 2, 1951.

Ser. No. 620,491. The Cat Cay Realty Company, Limited, Nassau, Island of New Providence, Bahama Islands, British West Indies. Filed Oct. 26, 1951.



For Belt Buckles; Coins; Key Rings; Watch Chain Keys; All Made Wholly or Partly of Precious Metal; and for Jewelry Made Wholly or Partly of Precious Metal To Be Worn on the Person—Namely, Anklets; Badges; Bracelets; Brooches; Charms; Cuff Links; Earrings; Necklaces; Pendants; Finger Rings; Stick Pins; Watch Bands; Watch Fobs; Watch Chain; and Tie Clasps; and for Silver and Glass Table Service Made Wholly or Partly of Precious Metal—Namely, Service Plates, Vegetable Dishes, Platters, Serving Trays, Coffee and Tea Services, Butter Dishes, Pepper and Salt Shakers, Compotes, Jelly Dishes, and Casseroles, and for Hollow and Flat Silverware.
Claims use since March 1936; and use in commerce between foreign countries and the United States since March 1936.

Ser. No. 623,309. Kenya Gem Corporation, Philadelphia, Pa. Filed Jan. 8, 1952. (Sec. 2f.)

KENYA

For Unset Synthetic Gems and Synthetic Gems Set in Jewelry Mountings, Including Men's and Ladies' Rings, Earrings, Pendants, Tiaras, Tie Pins, Tie Clasps, and Cuff Links.
Claims use since August 1949.

Ser. No. 636,908. J. W. Wolfenden Corporation, Attleboro, Mass. Filed Oct. 20, 1952.

Wolfenden TWR STERLING

No claim is made to the words "Wolfenden," "Sterling," and "Tarnish & Wear Resistant" except as used with the remainder of the mark. Applicant claims ownership of Registration No. 543,001.
For Sterling Silver Flatware and Hollow Ware.
Claims use since Mar. 4, 1951.

Ser. No. 637,160. J. W. Wolfenden Corporation, Attleboro, Mass. Filed Oct. 24, 1952.

JW STERLING

No claim is made to the word "Sterling" except as used with the remainder of the mark.
For Sterling Silver Flatware and Hollow Ware.
Claims use since June 6, 1951.

Ser. No. 640,681. John William Hamilton, Columbia, S. C. Filed Jan. 13, 1953.

LADY NILE

Applicant claims ownership of Registration No. 412,592.
For Finger Rings.
Claims use since Jan. 1, 1950.

Ser. No. 640,682. John William Hamilton, Columbia, S. C. Filed Jan. 13, 1953.

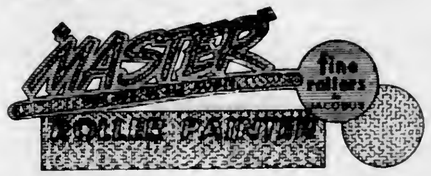
PRINCESS NILE

Applicant claims ownership of Registration No. 412,592.
For Finger Rings.
Claims use since Jan. 1, 1950.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 627,686. A. G. Jacobus' Sons Inc., Verona, N. J. Filed Apr. 7, 1952.



The drawing is lined for the colors blue and yellow, but no claim is made to color. All wording except "Master" is

disclaimed apart from the mark shown in the drawing.
Applicant claims ownership of Registrations Nos. 429,887 and 429,888.
For Painting Rollers.
Claims use since Dec. 21, 1951.

Ser. No. 635,690. Samuel M. Dell & Co., Inc., Baltimore, Md. Filed Sept. 24, 1952.

DELLVAR

For Paint and Similar Type Protective and Decorative Coating and Surfacing Brushes.
Claims use since January 1923.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 626,465. The Loma Manufacturing Company, Phoenix, Ariz., assignor to W. O. Bodine, doing business as Copperstate Supply Company, Phoenix, Ariz. Filed Mar. 14, 1952.

LOMAWARE

The lining represents only shading.
For Kiln-Fired Glazed Earthenware—Namely, Pottery-Type Dinnerware, Kitchen Ware, and Trays.
Claims use since June 1951.

Ser. No. 629,631. Milton E. Stackpole, doing business as Gift Horse Creations, San Mateo, Calif. Filed May 13, 1952.

GIFT HORSE

For Ceramic Tableware—Namely, Glasses and Tumblers.
Claims use since Oct. 1, 1951.

Ser. No. 633,595. Tierra Royal Potteries, Inc., Kansas City, Mo. Filed Aug. 7, 1952.

Tierra Royal

For Glazed Pottery Planters and Vases.
Claims use since July 1, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 582,296. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")



Applicant claims ownership of Registrations Nos. 64,996, 65,422, and others.
For Home Freezers.
Claims use since May 1948 on the mark as shown.

CLASS 33

GLASSWARE

Ser. No. 627,944. International Molded Plastics, Inc., Cleveland, Ohio. Filed Apr. 11, 1952.

BROOKPARK

Applicant claims ownership of Registration No. 545,276.
For Tumblers Made of Glass.
Claims use since Mar. 26, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 637,068. Mission Manufacturing Company, Houston, Tex. Filed Oct. 23, 1952.

MISSION

For Packing—Namely, Pump Packing, Pump Cylinder Liner Packing, Valve Insert Packing, Packing Elements for Pump Pistons, Piston Rod Packing, and Gaskets.
Claims use since Oct. 2, 1929.

Ser. No. 637,069. Mission Manufacturing Company, Houston, Tex. Filed Oct. 23, 1952.

MISSION

The drawing is lined for shading.
For Packing—Namely, Pump Packing, Pump Cylinder Liner Packing, Valve Insert Packing, Packing Elements for Pump Pistons, Piston Rod Packing, and Gaskets.
Claims use since Oct. 2, 1929.

Ser. No. 640,136. Charles Walker & Co. Limited, Swinegate, Leeds, England. Filed Dec. 29, 1952.

BETA

Applicant claims ownership of British Registration No. 655,407, dated Jan. 13, 1947.
For Belting and Strap Leather for or as Belting.

Ser. No. 640,137. Charles Walker & Co. Limited, Swinegate, Leeds, England. Filed Dec. 29, 1952.



Applicant claims ownership of British Registration No. 671,746, dated Aug. 9, 1948.
For Belting, and Strap Leather for or as Belting.

Ser. No. 640,138. Charles Walker & Co. Limited, Swinegate, Leeds, England. Filed Dec. 29, 1952.

BETAARON

Applicant claims ownership of British Registration No. 279,944, dated Feb. 17, 1906.
For Belting, and Strap Leather for or as Belting.

Ser. No. 642,302. Quaker Pacific Rubber Company, San Francisco, Calif. Filed Feb. 16, 1953.

RAINKIST

For Plastic Hose.
Claims use since Nov. 3, 1951.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 634,035. Roger W. Eddy, Newington, Conn. Filed Aug. 16, 1952.

AUDUBON

"Audubon" is the name of the well-known bird artist and scientist, now deceased.
For Musical Bird Calls.
Claims use since Aug. 8, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 639,965. Tested Papers of America, Inc., Chicago, Ill. Filed Dec. 23, 1952.

Candlelight

For Facial Tissue Type Paper Napkins.
Claims use since Sept. 13, 1952.

Ser. No. 640,203. Fox River Paper Corporation, Appleton, Wis. Filed Dec. 31, 1952.

ANNIVERSARY

Applicant claims ownership of Registration No. 299,950.
For Writing Paper—Namely, Ledger and Onion Skin Paper, and for Wedding Paper.
Claims use since on or about March 1939.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 612,808. Dalton Film Company, Tulsa, Okla. Filed Apr. 18, 1951.

DALTON D

The name "Dalton" is hereby disclaimed, apart from the mark as shown.
For Publications—Namely, Books, Magazines, and Newspaper Columns.
Claims use since Oct. 15, 1950.

Ser. No. 640,438. Boyd's City Dispatch Incorporated, New York, N. Y. Filed Jan. 7, 1953.



Applicant claims ownership of Registration No. 36,283.
For Mailing Lists.
Claims use since Jan. 1, 1865.

CLASS 39

CLOTHING

Ser. No. 630,193. Tobias Klipstein Inc., New York, N. Y. Filed May 24, 1952.

Reveler

For Ladies' and Misses' Coats and Suits.
Claims use since Apr. 15, 1952.

Ser. No. 632,679. Johny Lee of California, Los Angeles, Calif. Filed July 17, 1952.

Johny Lee

The name "Johny Lee" and the representation of a girl's head are entirely fanciful.
For Children's, Girls', and Misses' Blouses, Skirts, Jumpers, Dresses, Outer Shorts, Playsuits, and Jackets.
Claims use since Nov. 15, 1945.

Ser. No. 636,260. Susan Thomas, New York, N. Y. Filed Oct. 6, 1952.

Adele Martin

The name is fanciful.
For Ladies' and Misses' Blouses, Dresses, Skirts, Jackets, and Suits.
Claims use since June 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 629,789. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

SABELAINE

For Woolen Piece Goods for Ladies' Coats.
Claims use since May 5, 1952.

Ser. No. 633,069. Merrimack Manufacturing Company, Lowell, Mass., assignor to Merrimack Manufacturing Company (1952), Lowell, Mass. Filed July 25, 1952.

KINGSWALE

For Textile Fabrics, Including Pile, Corduroy and Velveteen, of Cotton and Rayon.
Claims use since July 16, 1952.

Ser. No. 637,006. Security Mills, Inc., Newton, Mass., and New York, N. Y. Filed Oct. 22, 1952.

Shagabout

For Knitted Fabrics in the Piece, Having an Alpaca Face and Cotton Back.
Claims use since June 4, 1951.

Ser. No. 637,480. Cone Mills Inc., New York, N. Y. Filed Nov. 1, 1952.

THIRSTEX

For Turkish Towels.
Claims use since Oct. 17, 1952.

Ser. No. 638,799. Iden Associates, Chicago, Ill. Filed Dec. 1, 1952.

Ventglas

Applicant claims ownership of Registration No. 527,288.
For Glass Fabric in Strips.
Claims use since Sept. 3, 1952.

Ser. No. 639,083. D. A. Smith & Co., New York, N. Y. Filed Dec. 5, 1952. (Sec. 2f.)

"Barnas-Mär"

For Hand Woven Woolen Tweed Piece Goods.
Claims use since October 1945.

Ser. No. 639,327. Samuel P. Gross, Inc., Philadelphia, Pa. Filed Dec. 11, 1952.

SARALON

For Textile Fabrics Made of a Combination of Wool and Synthetic Fibers.
Claims use since Nov. 28, 1952.

Ser. No. 640,895. Aldon Rug Mills, Inc., Philadelphia, Pa. Filed Jan. 19, 1953.

KALANIZED

For Textile Tufted Rugs and Carpets.
Claims use since Jan. 1, 1953.

Ser. No. 641,005. Sidney Blumenthal & Co., Inc., New York, N. Y. Filed Jan. 21, 1953.

NURYDE

For Pile Fabrics in the Piece Composed of Nylon and Cotton.
Claims use since Dec. 22, 1952.

Ser. No. 641,006. Sidney Blomenthal & Co., Inc., New York, N. Y. Filed Jan. 21, 1953.

SHELTRYM

Applicant claims ownership of Registrations Nos. 519,337, 354,063, and others.
For Pile Fabrics in the Piece Composed of Wool, Cotton, and Rayon, or Various Combinations Thereof.
Claims use since Dec. 22, 1952.

Ser. No. 641,010. Oscar A. Brunner, doing business under the name Victoria Distributors, New York, N. Y. Filed Jan. 21, 1953.

GOLD SPUN

The word "Spun" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 357,554.
For Sheets, Pillow Cases, and Piece Goods of Cotton, Rayon, and Mixtures Thereof.
Claims use since February 1934.

Ser. No. 641,099. J. P. Stevens & Co. Inc., New York, N. Y. Filed Jan. 21, 1953.

Printemps

For Fabrics Made From Cotton and/or Synthetic Fibers or Blends Thereof.
Claims use since Dec. 23, 1952.

Ser. No. 641,101. Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Filed Jan. 21, 1953.

PIONEER

For Wool Braided Rugs.
Claims use since Jan. 23, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 610,397. Wappler, Inc., New York, N. Y. Filed Jan. 10, 1951.

DEHYDRA

For Apparatus To Be Used as a Complete Unit in Surgery, Whereby a Radio or High Frequency Current Is Produced, Which, When Applied Through Suitable Means, Including a Surgical Diathermy Handle, Needle, or Other Similar Device, Causes a Discharge of the High Frequency Current Into Body Tissue, Desiccating the Same To Destroy Malignant or Non-Malignant Growths.
Claims use since May 15, 1942.

Ser. No. 619,842. Sam S. Miller, doing business as Ohio First Aid & Pharmacal Company, Cleveland, Ohio. Filed Oct. 10, 1951.

MAGNA–CLEAN

The word "Clean" in the drawing is disclaimed apart from the mark as shown.
For Instrument for Removing Foreign Particles From the Eye, Comprising Two Separable Parts Nested One Within the Other, There Being a Plastic Lens Magnifying Portion, To Aid in Visually Locating the Particle, and a Handled Loop of Magnetized Wire, for Mechanically Removing Said Particle.
Claims use since Jan. 1, 1949.

Ser. No. 628,892. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

BROWN-BUERGER

For Endoscopic Instruments—Namely, Cystoscopes and Components Thereof.
Claims use since January 1905.

Ser. No. 628,893. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

BUTTERFIELD

For Endoscopic Instruments—Namely, Cysto-Urethroscopes, Urethroscopes, and Vaginascopes, and Components Thereof.
Claims use since May 1925.

Ser. No. 628,894. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

CUTLER

For Endoscopic Instruments—Namely, Forceps, Thoracoscopes, and Components Thereof.
Claims use since September 1930.

Ser. No. 628,895. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

LAIDLEY

For Endoscopic Instruments—Namely, Cystoscopes and Components Thereof.
Claims use since 1940.

Ser. No. 628,896. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

LOWSLEY

For Endoscopic Instruments—Namely, Urethroscopes and Components Thereof; Forceps; Biopsy Specimen Punches; and Tractors.
Claims use since December 1933.

Ser. No. 628,897. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

McCARTHY

Applicant claims ownership of Registration No. 234,692.
For Endoscopic Instruments—Namely, Cystoscopes, Pan-Endoscopes, Urethroscopes, Visual Haemostatic Forceps and Components Thereof; Diathermic Knife and Coagulation Electrodes; and Bladder Evacuators.
Claims use since November 1910.

Ser. No. 628,898. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

RAVICH

For Endoscopic Instruments—Namely, Cystoscopes, Lithotriptoscopes, Urethroscopes, and Components Thereof.
Claims use since July 1928.

Ser. No. 628,900. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

STERN-McCARTHY

Applicant claims ownership of Registration No. 234,692.
For Endoscopic Instruments—Namely, Visual Prostatic Electrotomes and Components Thereof.
Claims use since January 1933.

Ser. No. 628,901. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

STEWART

For Endoscopic Instruments—Namely, Procto-Sigmoidoscopes and Components Thereof.
Claims use since 1935.

Ser. No. 628,903. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

YOUNG'S

For Endoscopic Instruments—Namely, Cystoscopes, Urethroscopes, Urethroscopic Posterior Tubes, and Lithotriptoscopes and Components Thereof.
Claims use since January 1927.

Ser. No. 631,210. La Gaine Scandale, Lyon, France. Filed June 14, 1952.

OCCULTA

Applicant claims ownership of French Registration No. 20,522, dated Mar. 3, 1938, and United States Registration No. 297,721.
For Stockings for Use by Persons Having Varicose Veins.

Ser. No. 632,663. Conitech, Ltd., New York, N. Y. Filed July 17, 1952.

technicon-Huxley

The exclusive right to the name "Huxley" apart from the mark as shown in the drawing is hereby disclaimed.
For Artificial Respiration Apparatus—Namely, Cuirasses Which Are Removably Attachable to the Body and Pumps for Rhythmically Varying the Pressure in the Cuirass To Induce Artificial Respiration.
Claims use since Apr. 14, 1952.

Ser. No. 633,102. Commercial Solvents Corporation, New York, N. Y. Filed July 26, 1952.

BACINATOR

For Device for Subcutaneous Implantation of Antibiotic-Containing Pellets Into Young Animals.
Claims use since June 6, 1952.

Ser. No. 633,603. Raymond O. Bartells, doing business as The Veldent Company, Los Gatos, Calif. Filed Aug. 8, 1952.

VELDENT

For Liner for Artificial Dentures.
Claims use since Apr. 14, 1949.

Ser. No. 639,221. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass. Filed Dec. 9, 1952.

Epic

For Home Permanent Waving Kits Consisting of Cold Wave Waving Lotion and End Papers.
Claims use since Oct. 31, 1952.

Ser. No. 639,364. Ethicon Suture Laboratories Incorporated, New Brunswick, N. J. Filed Dec. 12, 1952.

SUTUPAK

For Sutures and Ligatures.
Claims use since Nov. 12, 1952.

Ser. No. 640,025 The Wella Corporation, New York, N. Y. Filed Dec. 24, 1952.

WELLA

For Cuticle Nippers, Manicure Nipper Shears, Manicure Scissors, Cuticle Pushers, Nail Files, Toenail Nippers, Eyebrow Tweezers, and Blackhead Remover.
Claims use since June 7, 1950.

Ser. No. 640,372. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

CALHOUN STIRLING

For Ureteral Forceps.
Claims use since 1928.

Ser. No. 640,373. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

FERGUSON

For Ureteral Stone Removing Forceps.
Claims use since August 1935.

Ser. No. 640,375. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

FRANKFELDT

For Endoscopic Instruments—Namely, Procto-Sigmoidoscopes and Components Thereof, Surgical Snares, Surgical Forceps, and Variable Speculums.
Claims use since 1935.

Ser. No. 640,376. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

HOFFMAN

For Biopsy Punches and Components Thereof and Surgical Electrodes for Use Therewith.
Claims use since January 1931.

Ser. No. 640,377. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

HYAMS

For Surgical Electrode Units for the Application of High Frequency Currents and the Introduction of Fluids to Body Passages.
Claims use since 1928.

Ser. No. 640,378. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

JEWETT

For Surgical Electrodes.
Claims use since August 1940.

Ser. No. 640,379. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

KRAMER

For Surgical Electrodes.
Claims use since May 1939.

Ser. No. 640,380. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

McIVER

For Endoscopic Instruments—Namely, Choledochoscopes, and Components Thereof, and Catheters.
Claims use since January 1941.

Ser. No. 640,381. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

OTIS-BROWN

For Endoscopic Instruments—Namely, Cystoscopes, and Components Thereof.
Claims use since 1900.

Ser. No. 640,382. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

SQUIER

For Endoscopic Instruments—Namely, Urethroscopes and Urethroscopic Posterior Tubes, and Components Thereof.
Claims use since 1911.

Ser. No. 640,383. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

TOOMEY

For Bladder Evacuators.
Claims use since 1935.

Ser. No. 640,384. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

WILHELM

For Endoscopic Instruments—Namely, Urethroscopes and Components Thereof.
Claims use since July 1935.

Ser. No. 640,385. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

YEOMANS

For Endoscopic Instruments—Namely, Proctoscopes and Components Thereof, and Biopsy Forceps.
Claims use since 1912.

Ser. No. 640,636. Harold L. Keiser, doing business as Medfoam Products Company, Fremont, Ohio. Filed Jan. 12, 1953.

MEDFOAM

For Elastic Roller Bandages.
Claims use since Oct. 20, 1952.

Ser. No. 641,103. Tru-Aid Products Company, also known as Tru-Aid Products Co., Philadelphia, Pa. Filed Jan. 21, 1953. (Sec. 2f.)

TRU-Aid

For Denture Cushions.
Claims use since on or about Apr. 1, 1947.

Ser. No. 641,122. The L. D. Caulk Company, Milford, Del. Filed Jan. 22, 1953.

Jeltrate

For Elastic Dental Impression Material.
Claims use since Dec. 1, 1952.

Ser. No. 641,466. Ritter Company, Inc., Rochester, N. Y. Filed Jan. 28, 1953.

INSTRU-MATIC

For Dental and Medical Equipment Stands.
Claims use since Dec. 1, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 549,935. James Keiller & Son, Ltd., Inc., Baltimore, Md. Filed Feb. 17, 1948. (Sec. 2f.)

JAMES KEILLER & SON'S

"James Keiller" is the name of the first producer of marmalade in England, now deceased.
For Marmalade.
Claims use since Apr. 1, 1910.

Ser. No. 579,310. Morris Efron, doing business as Efron and Novik Pickle Works, Passaic, N. J. Filed May 23, 1949. (Sec. 2f.)

CREAM OF THE CROP

For Dill Pickles, Sweet Mixed Pickles, Hot Mixed Pickles, Cucumber Pickles, Cucumber Rings, Sweet Pickle Relish, Gherkins, Hot Pepper Relish, Sweet Pepper Relish, Sweet Peppers, Cherry Peppers, Giardiniera, Sauerkraut.
Claims use since Jan. 15, 1943.

Ser. No. 582,808. Thomas J. Webb Company, Chicago, Ill. Filed Aug. 1, 1949. (Sec. 2f.)

MOUNT VERNON

Applicant claims ownership of Registration No. 178,697.
For Coffee and Tea.
Claims use since September 1905.

Ser. No. 586,608. Charles Banks Stout, doing business under the trade name of Dixie-Portland Flour Mills, Memphis, Tenn. Filed Oct. 20, 1949. (Sec. 2f.)

SWEET BISCUIT

For Wheat Flour.
Claims use since 1921.

Ser. No. 597,647. American Crystal Sugar Company, Denver, Colo. Filed May 18, 1950.

CRYSTAL SUGAR

No claim is made to the term "Crystal Sugar" apart from the mark in its entirety. The drawing is lined for the colors red and blue. Applicant claims ownership of Registration No. 288,776.
For Sugar.
Claims use since April 1949.

Ser. No. 597,648. American Crystal Sugar Company, Denver, Colo. Filed May 18, 1950.

CRYSTAL SUGAR

No claim is made to the term "Crystal Sugar" apart from the mark in its entirety. The drawing is lined for red. Applicant claims ownership of Registration No. 288,776.
For Sugar.
Claims use since May 1948.

Ser. No. 597,649. American Crystal Sugar Company, Denver, Colo. Filed May 18, 1950.

CRYSTAL SUGAR

No claim is made to the term "Crystal Sugar" apart from the mark in its entirety. The drawing is lined for red and blue. Applicant claims ownership of Registration No. 288,776.
For Sugar.
Claims use since 1936.

Ser. No. 597,766. Krey Packing Company, St. Louis, Mo. Filed May 19, 1950. (Sec. 2f.)

Tenderated

Applicant claims ownership of Registration No. 357,259.
For Hams.
Claims use since Feb. 15, 1937.

Ser. No. 603,938. Louis Peverada, doing business under the name and style of Salad Queen Food Products, Portland, Maine. Filed Sept. 23, 1950.

SALAD QUEEN

For Pop-Corn Seasoning Made From Pure Cotton-Seed Oil and Certified Food Colors.
Claims use since Feb. 7, 1950.

Ser. No. 604,939. Vega Baking Company Incorporated, Norwood, Mass. Filed Oct. 14, 1950. (Sec. 2f.)

Vega

For Breads, Rolls, Pastries, Cookies, Cakes, Pies, Buns, Rusks, and Doughnuts.
Claims use since May 15, 1933.

Ser. No. 604,940. Vega Baking Company Incorporated, Norwood, Mass. Filed Oct. 14, 1950. (Sec. 2f.)



For Bread, Cookies, Pastries, Rolls, and Doughnuts.
Claims use since Sept. 15, 1938.

Ser. No. 611,874. Almo Candy Co., New York, N. Y. Filed Mar. 28, 1951.

BUNNY BUMPS

No claim is made to the word "Bunny" apart from the mark shown on the drawing.
For Candy.
Claims use since Dec. 19, 1950.

Ser. No. 614,044. Federal Nut Co., Inc., New York, N. Y. Filed May 18, 1951.

The House full o' Nuts

The word "Nuts" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 284,222.
For Salted Nuts.
Claims use since August 1945 as shown; and since Aug. 23, 1928, as to the words "The House Full O'Nuts."

Ser. No. 617,882. Med-O-Milk, Inc., East Stanwood, Wash., assignor to International Milk Processors, Inc., Chicago, Ill., a corporation of Delaware. Filed Aug. 20, 1951.

Med-O-Milk

The word "Milk" is disclaimed apart from the mark shown in the drawing.
For Canned Whole Fresh Milk.
Claims use since on or about Dec. 22, 1949.

Ser. No. 619,290. Anthony A. Bianco, Inc., New York, N. Y., and Fresno, Calif. Filed Sept. 27, 1951.

PAGLIACCI

The Italian translation of the word "Pagliacci" is the plural of buffoon, but the word is better known as the title of the opera composed by Ruggiero Leoncavallo.
For Fresh Grapes, Cherries, Peaches, Plums, and Nectarines in Their Natural State.
Claims use since Sept. 1, 1928.

Ser. No. 622,135. H. C. West & Sons, Bird's Nest, Va. Filed Dec. 5, 1951.

FARMINGTON



Exclusive use of the word "Farmington" is not claimed, except in association with the rest of the mark.
For General Fresh Farm Produce—Namely, Irish Potatoes, Sweet Potatoes, Beans, Peppers, Tomatoes, Strawberries, Cabbage, and Cucumbers.
Claims use since Oct. 25, 1950.

Ser. No. 626,431. George W. Vunck, doing business as O. B. Vunck & Son, Voorheesville, N. Y. Filed Mar. 13, 1952. (Sec. 2f.)

CORTLAND

For Chicken and Live Stock Feeds.
Claims use since 1922.

Ser. No. 626,909. South Pacific Canning Company, Long Beach, Calif. Filed Mar. 22, 1952.

Yule-Tide

For Canned Fish.
Claims use since December 1949.

Ser. No. 627,767. Northern Milling Company, Wausau, Wis. Filed Apr. 8, 1952. (Sec. 2f.)

WISCONSIN BALANCED RATION



No registration rights are claimed for the words "Balanced Ration" apart from the mark shown in the drawing.
For Dairy, Cattle, Stock, Swine, Pigeon, and Horse Feeds; Calf Meal; Poultry Scratch Feeds, Mashes, Pellets, and Crumbles.
Claims use since May 1916.

Ser. No. 629,719. Confections, Incorporated, Chicago, Ill. Filed May 15, 1952.

BigBoy

For Raw Unpopped Pop Corn.
Claims use since Apr. 25, 1952.

Ser. No. 630,799. Rose & Rowe, Inc., New York, N. Y. Filed June 5, 1952.

LUSAL

No claim is made to the representation of a map of the United States apart from the mark shown in the drawing.
Applicant claims ownership of Registrations Nos. 433,064 and 433,063.
For Lecithin, an Oil Soluble Emulsifier for Food Purposes.
Claims use since July 31, 1946.

Ser. No. 632,463. Brecht Candy Company, Denver, Colo. Filed July 12, 1952.

FLAP-JACKS

For Chocolate Pecans and Caramel Candy.
Claims use since Apr. 18, 1952.

Ser. No. 635,031. Mark G. Gebiar, doing business as Oregon Fruit Products Co., Salem, Oreg. Filed Sept. 9, 1952.

OREPAK

For Canned Fruits and Canned Berries.
Claims use since Aug. 15, 1952.

Ser. No. 636,603. Pelahatchie Poultry Company, Pelahatchie, Miss. Filed Oct. 14, 1952.

MANDA'S BLUE RIBBON

For Dressed Poultry.
Claims use since Mar. 1, 1952.

Ser. No. 640,405. McAfee Candy Co., Inc., Macon, Ga. Filed Jan. 6, 1953. (Sec. 2f as to "McAfee's.")

McAFEE'S WELLMADE

No exclusive claim is made to the term "Well Made" apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 540,657 and 391,020.
For Candy.
Claims use since Sept. 30, 1952; and since February 1932 as to the name "McAfee's."

Ser. No. 640,997. Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Filed Jan. 21, 1953.

VELVORENE

Applicant claims ownership of Registration No. 117,868.
For Vegetable Oil Shortening.
Claims use since Dec. 30, 1952.

Ser. No. 642,659. Hilliard Joseph, doing business as Joseph Northwest, Yakima, Wash. Filed Feb. 24, 1953.



Applicant claims ownership of Registration No. 533,750.
For Fresh Apples.
Claims use since Jan. 28, 1953.

Ser. No. 643,902. Jasmine Vineyards, Delano, Calif. Filed Mar. 20, 1953.

M and V

For Fresh Grapes.
Claims use since July 9, 1947.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 592,328. The Mennen Company, Newark, N. J. Filed Feb. 11, 1950.

BABY MAGIC

Applicant disclaims all exclusive rights in the word "Baby" apart from the mark as shown.
For Skin Lotion.
Claims use since on or about Jan. 3, 1950.

Ser. No. 599,538. Società in Accomandita Semplice Franco Cella & C., Milan, Italy. Filed June 21, 1950.



Applicant claims ownership of Italian Registration No. 84,649, dated Mar. 2, 1948.
For Dentifrices, Solid and Liquid Brilliantine, Toilet Powders, Lipsticks, Nail Polish, Hair Dyeing Preparations, Hair Lotions, Cold Creams, Bath Salts, Perfumes.

Ser. No. 600,869. Vingen (Australasia) Proprietary Limited, Melbourne, Victoria, Australia. Filed July 18, 1950.

JACK AND JILL

For Toothpaste.
Claims use since July 28, 1949; and since Jan. 15, 1950, in commerce between foreign nations and the United States.

Ser. No. 619,999. Hindu Products Mfg. Corp., Chicago, Ill. Filed Oct. 15, 1951.



The portrait shown on the drawing is fanciful.
For Face Creams, Face Powders, Body Powders, Talcum Powder, Hair Pomade, Foot Powder, Tooth Powder, Tooth Paste, Perfumes, Toilet Water, Cologne, Face and Hand Lotions, Bath Salts, Body Deodorants, and Bath Oils.
Claims use since on about Jan. 1, 1922.

Ser. No. 629,109. John B. Hockensmith, doing business as John's Hair Stylist or Johns Hollywood Beauty Salon, Knoxville, Tenn. Filed May 2, 1952.

JOHN'S
'FLASH' TWO-WAY

No claim is made to the words "'Flash' Two-Way" except in association with the mark as shown.
For Permanent Wave Lotion.
Claims use since Jan. 1, 1952.

Ser. No. 630,035. Seaplant Chemical Corporation, New Bedford, Mass. Filed May 21, 1952.

SeaKem

For Refined Irish Moss Extractives Used in Toothpaste and Refined Red Seaweed Extractives Used as Foam Stabilizers for Tooth Powder, Shampoos, and Cosmetics.
Claims use since Mar. 11, 1952.

Ser. No. 632,165. Juliette Marglen, Inc., Los Angeles and Hollywood, Calif. Filed July 3, 1952.



JEWELLED MANICURE

The word "Manicure" is disclaimed apart from the mark.
For Preparations for Repairing, Preserving, and Beautifying Finger Nails and Toe Nails—Namely, Liquid Base Coating Materials; Liquid Top Coating, or Sealer; Clear and Colored Enamels; and Liquid Adhesives for Mending and Repairing Broken Nails.
Claims use since Apr. 17, 1951.

Ser. No. 632,166. Juliette Marglen, Inc., Los Angeles and Hollywood, Calif. Filed July 3, 1952.

Juliette Marglen

The trade-mark consists in the fictitious name "Juliette Marglen."
For Preparations for Repairing, Preserving, and Beautifying Finger Nails and Toe Nails—Namely, Liquid Base Coating Materials; Liquid Top Coating, or Sealer; Clear and Colored Enamels; Liquid Adhesives for Mending and Repairing Broken Nails; Thinners for the Same; and Removers for the Same; Also Comprising Liquid Cuticle Removers.
Claims use since 1936.

Ser. No. 632,467. Joseph De Carlo, doing business under the name and style of Northway Pharmacal Company, Rochester, N. Y. Filed July 12, 1952.

NORCIDE

For Scalp Stimulant and Hair Dressing.
Claims use since Nov. 16, 1951.

Ser. No. 634,206. Jules Montenier, Chicago, Ill. Filed Aug. 20, 1952.

Finesse

For Hair Shampoo.
Claims use since on or about July 1931.

Ser. No. 634,237. Clairol Incorporated, Stamford, Conn. Filed Aug. 21, 1952.

miss AMIROL

The trade-mark is merely a fanciful name. Applicant claims ownership of Registration No. 370,506.
For Hair Tinting and Coloring Preparations.
Claims use since Aug. 4, 1952.

Ser. No. 634,345. Honoria Dunn Roche, doing business as The Du Four Co., Washington, D. C. Filed Aug. 22, 1952. (Sec. 2f.)

Mme du Four's

Applicant claims ownership of Registrations Nos. 78,316 and 268,085.
For Massage Cream for the Skin, Peach Bloom Facial Tint, Cuticle Cream, Tar Salve Dandruff Remover, and Dandruff Cream.
Claims use since Aug. 1, 1908.

Ser. No. 634,346. Honoria Dunn Roche, doing business as The Du Four Co., Washington, D. C. Filed Aug. 22, 1952.



Applicant claims ownership of Registrations Nos. 78,316 and 268,085.
For Massage Cream for the Skin, Peach Bloom Facial Tint, Cuticle Cream, Tar Salve Dandruff Remover, and Dandruff Cream.
Claims use since Aug. 1, 1908.

Ser. No. 634,549. Helena Rubinstein, Inc., New York, N. Y. Filed Aug. 27, 1952.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, consent of record. Applicant claims ownership of Registrations Nos. 533,839, 566,291, and others.
For Estrogenic Hormone Cream and Oil, and Estrogenic Hormone Hand Lotion, also Perfume Containers Containing Perfume.
Claims use since 1928.

Ser. No. 634,605. Revlon Products Corporation, New York, N. Y. Filed Aug. 28, 1952.

"ORCHIDS TO YOU"

For Lipstick, Nail Enamel, Face Powder, Cheek Stick, and Cake Rouge.
Claims use since June 9, 1948.

Ser. No. 634,790. The Lambert Company, doing business as John Hudson Moore Co. Division of The Lambert Company, Jersey City, N. J., and New York, N. Y. Filed Sept. 3, 1952.

TALL STORY

For Cologne, After-Shaving Lotion, Hair Lotion, Talcum Powder, Bay Rum, Personal Use Deodorant, Foot Powder, Shaving Soap, and Sun-Screen Lotion.
Claims use since Aug. 14, 1952.

Ser. No. 635,136. Lavit, Inc., New York, N. Y. Filed Sept. 11, 1952.



Applicant disclaims the representation of the false teeth apart from the mark.
For Home Dental Cleaner Used in the Cleaning of False Teeth.
Claims use since Oct. 4, 1951.

Ser. No. 636,849. Arthur E. Hebberd, La Crosse, Wis. Filed Oct. 18, 1952.

Finesse

For Cosmetic Type Deodorant and Cologne.
Claims use since September 1942.

Ser. No. 637,433. Firmenich Incorporated, New York, N. Y. Filed Oct. 31, 1952.

CHEMODERM

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Sept. 30, 1952.

Ser. No. 637,830. The Lambert Company, St. Louis, Mo. Filed Nov. 8, 1952.

ANTI--ZYME

For Dentifrice and Mouthwash.
Claims use since Oct. 24, 1952.

Ser. No. 639,180. The Lambert Company, St. Louis, Mo. Filed Dec. 8, 1952.

LAURYLIN

For Dentifrice.
Claims use since Nov. 26, 1952.

Ser. No. 639,366. Perry Golden, doing business under the name Lampo Products, New York, N. Y. Filed Dec. 12, 1952.

LAMPO

For Hair Conditioning Preparation.
Claims use since April 1952.

Ser. No. 639,808. Otis Clapp & Son, Inc., Boston, Mass. Filed Dec. 20, 1952.

RUNIC

For Perfume.
Claims use since Nov. 24, 1952.

Ser. No. 642,666. The Lambert Company, St. Louis, Mo. Filed Feb. 24, 1953.

ZYMEDENT

For Dentifrice.
Claims use since Feb. 16, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 604,461. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Oct. 4, 1950.

PRONTO

Applicant claims ownership of Registration No. 145,003.
For Bowl Cleaner and Drain Opener.
Claims use since July 19, 1921.

Ser. No. 609,839. Arkwright, Incorporated, New York, N. Y. Filed Feb. 9, 1951.

FIRST LADY

For Hand Soap, Face Soap, Toilet Soap, Shampoo, Soap Powders, Household Washing Compounds, Liquid Cleaner for Fabrics.
Claims use since May 1, 1930.

Ser. No. 613,049. Chasco, Inc., Baltimore, Md. Filed Apr. 24, 1951.

CHA-S-OFF

For Chemical Liquid Paint Remover.
Claims use since Mar. 20, 1950.

Ser. No. 614,918. All-Sil Welding Metals, Inc., New York, N. Y. Filed June 8, 1951.

ALL-SIL CLEANALL

The word "Cleanall" is disclaimed apart from the mark as shown.
For Metal Cleaning Preparations for Use in the Welding Industry.
Claims use since Feb. 26, 1951.

Ser. No. 617,684. Universal Refining Products Co., Inc., New York, N. Y. Filed Aug. 14, 1951.

SOOTENEMY

For Chemical Compound for Removing Soot Which Eliminates Soot by Being Sprinkled Upon Coal Fed Into the Stoker, and in Other Ways.
Claims use since Feb. 27, 1935.

Ser. No. 619,581. Michael Modrak, Gary, Ind. Filed Oct. 4, 1951.

DETERG-N-SUDS

The descriptive word "Suds" is disclaimed apart from the mark as shown in the drawing.
For Sterilizing Detergent for Washing Dishes Having Water Softening Properties.
Claims use since Sept. 24, 1951.

Ser. No. 619,841. Lee C. Miller, Sr., doing business as Zip Products Co., Clyde, Ohio. Filed Oct. 10, 1951.

ZIP

For Rust and Stain Remover.
Claims use since Aug. 24, 1951.

Ser. No. 621,445. The Baker Castor Oil Company, Jersey City, N. J. Filed Nov. 20, 1951. (Sec. 2f.)
For Soaps.

BAKERS

Claims use since 1937 on the mark as shown; and since Dec. 11, 1942, on soaps.

Ser. No. 625,161. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

TEXAPINE

For Liquid Cleanser, Deodorant, and Disinfectant for General Cleaning Purposes Including Water Closets and Urinals; and Sinks and Wash Basins.
Claims use since Feb. 1, 1937.

Ser. No. 626,295. Abesca Chemical Works, Brooklyn, N. Y. Filed Mar. 12, 1952.

PURITY ABESCA'S UNIFORMITY

No claim is made to the words "Purity" and "Uniformity" apart from the mark shown on the drawing. The drawing is lined for shading only.
For Hand Cleaning Cream.
Claims use since Feb. 9, 1951.

Ser. No. 630,125. The Denison Manufacturing Company, Asheville, N. C. Filed May 23, 1952.

Greas-Go

The word "Greas" is disclaimed apart from the mark as shown in the drawing.
For Granular Compound Which Removes Grease and Oil From Floors in Garages, Factories, Machine Shops and the Like, by Absorbing the Same.
Claims use since Mar. 24, 1948.

Ser. No. 630,126. The Denison Manufacturing Company, Asheville, N. C. Filed May 23, 1952.

Multa-Sorb

The word "Sorb" is disclaimed apart from the mark as shown in the drawing.
For Granular Compound Which Removes Grease and Oil From Floors in Garages, Factories, Machine Shops and the Like, by Absorbing the Same.
Claims use since Mar. 24, 1948.

Ser. No. 630,401. Elraco Engineering Company, Hoboken, N. J. Filed May 28, 1952.

ELRACO

For Soot Removing Chemical Preparation.
Claims use since November 1946.

Ser. No. 630,614. Russell A. Peterson, doing business under the fictitious name Lip-Off Co., Lakeport, Calif. Filed June 2, 1952.

LIP-OFF

For Cleansing Liquid for Removing Lipstick From Drinking Glasses and Applicator Therefor.
Claims use since on or about Jan. 22, 1952.

Ser. No. 631,620. International Sisal Company, Minneapolis, Minn. Filed June 23, 1952.

KILLDUST

For Sweeping Compound.
Claims use since on or about Jan. 1, 1922.

Ser. No. 632,320. Packers Tar Soap, Inc., Mystic, Conn. Filed July 9, 1952. (Sec. 2f as to "Packer's.")

PACKER'S CHARM

Applicant claims ownership of Registrations Nos. 407,047, 430,785, and others.
For Soap.
Claims use since December 1949; and since 1877 as to "Packer's."

Ser. No. 632,508. Dickey Manufacturing Company, St. Louis, Mo. Filed July 14, 1952. (Sec. 2f.)

Dickey

For Automobile White Wall Tire Cleaner, Auto Body Washing Compound, Bug Stain Remover, Foam Cleaner for Upholstery, Concrete Floor Cleaner, and Waterless Hand Cleaner.
Claims use since 1935.

Ser. No. 633,085. Chester Whitfield Smith, doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Filed July 25, 1952.

SOLO-PHOS

The term "Phos" separate and apart from the mark as shown is disclaimed.
For Cleaning Solution Adapted To Clean Metallic Surfaces and To Form a Protective Phosphate Coating Therefor.
Claims use since May 1, 1952.

Ser. No. 634,447. Frederick Arnold Best, Watford, England. Filed Aug. 26, 1952.

ROSTEX

Applicant claims ownership of British Registration No. 706,641, dated Apr. 23, 1952.
For Rust Removing Preparation.

Ser. No. 635,097. Rigo Manufacturing Co., Inc. Nashville, Tenn. Filed Sept. 10, 1952.

RIGO D-S

For Detergent in Powder Form, Dissolvable in Water, for Use in Cleaning and Sanitizing Milking Machines and Utensils in One Operation.
Claims use since Dec. 1, 1950.

Ser. No. 636,249. Pacific Universal Products Corporation, doing business under the name and style of Acra Instruments, Pasadena, Calif. Filed Oct. 6, 1952.

ACRA - KLEEN

The term "Kleen" is disclaimed apart from the mark as shown.
For Liquid for Cleaning Glass Optical Surfaces—Namely, Eye Glass Lenses, Photographic Lenses, and the Like.
Claims use since on or about Feb. 1, 1947.

Ser. No. 636,289. The Haloid Company, Rochester, N. Y. Filed Oct. 7, 1952.

XEROX

Applicant claims ownership of Registration No. 570,602.
For Cleaners Consisting of Granular Materials Adapted To Be Cascaded Over a Surface To Remove Loosely Held Residual Powder From Plates Used in Making Electro-Photographic Copies, and Film Removers Comprising Liquid Solvents Capable of Dissolving or Emulsifying the Films of Foreign Material Which Accumulate on Electro-Photographic Plates During Use.
Claims use since June 22, 1949.

Ser. No. 636,598. "4711" Limited, Beverly Hills, Calif. Filed Oct. 14, 1952.

Sof-Foam

Applicant claims ownership of Registrations Nos. 45,617, 50,685, and others.
For Baby Oil Shampoo.
Claims use since Sept. 12, 1952.

Ser. No. 638,271. Rayette, Inc., St. Paul, Minn. Filed Nov. 18, 1952.

SEVEN SEAS

Applicant claims ownership of Registration No. 412,996.
For Shampoos.
Claims use since Oct. 7, 1946.

Ser. No. 639,191. Sanavene Manufacturing Co., St. Louis, Mo. Filed Dec. 8, 1952.

SANAVENE

Applicant claims ownership of Registration No. 328,665.
For Liquid Chemical Cleaning Preparation for Rugs and Upholstery Having Incidental Properties, as a Moth Repellant.
Claims use since July 25, 1934.

Ser. No. 639,389. Phillips Manufactoring Company, Chicago, Ill. Filed Dec. 12, 1952.

Phillex

Applicant claims ownership of Registrations Nos. 440,402 and 549,445.
For Compounds for Degreasing Metal Parts—Namely, Trichlorethylene.
Claims use since February 1951.

Ser. No. 641,387. Lino Paste Co., Chicago, Ill. Filed Jan. 27, 1953.

mesoff

For Composition in the Nature of a Solvent for Use in Removing Asphalt Tile Cement.
Claims use since Dec. 29, 1952.

Ser. No. 641,566. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Jan. 30, 1953.

KLER-RO

The drawing is lined for red. Applicant claims ownership of Registration No. 387,690.
For Medical Preparation—Namely, a Powder Useful as a Blood Solvent and Detergent in Hospital Practice.
Claims use since May 18, 1951.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 626,767. Louis Vaudable, Paris, France. Filed Mar. 20, 1952.

MAXIM'S

For Catering Services.
Claims use since 1907; and use in commerce between foreign nations and the United States since Nov. 1, 1950.

Ser. No. 628,838. American Heart Association, Inc., New York, N. Y. Filed Apr. 29, 1952.



The drawing is lined for red.
For Research and Community Service in the Field of Cardiovascular Disease.
Claims use since 1926.

Ser. No. 634,901. Industrial Garment Service, Inc., Chicago, Ill. Filed Sept. 5, 1952.

WYPEX

For Towel Supply Service—Namely, Supplying Clean Towels and Exchanging Clean Towels for Soiled Towels on a Rental Basis.
Claims use since on or about June 3, 1952.

Ser. No. 635,949. Ken E. Bemis, Jr., Oakland, Calif. Filed Sept. 30, 1952.

Jolly Kings

For Drive-In Restaurant Service.
Claims use since July 25, 1952.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 627,313. Bakers Associates Incorporated, Chicago, Ill. Filed Mar. 31, 1952.



PeterWheat

The representation of the boy and the name "Peter Wheat" are fanciful. Applicant claims ownership of Registration No. 520,923.
For Management Counseling to the Bakery Industry Relating to Personnel, Organization, Production, Sales, Quality Control, Automotive and Plant Maintenance, and Finance.
Claims use since June 10, 1948.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 636,189. Acacia Mutual Life Insurance Company, Washington, D. C. Filed Oct. 6, 1952.

ACACIA
PLAN-A-GRAPH SERVICE

The words "Plan-A-Graph Service" are disclaimed apart from the mark as shown.
For Estate Planning Services—Namely, Making a Written Analysis for Individuals, Partnerships or Corporations of, the Financial Needs of the Prospect and Dependents in the Event of the Prospect's Retirement or Death, Making a Comparison of These Needs With Income Anticipated From Existing Life Insurance, Social Security, Pensions and Any Other Sources, and Making Recommendations for and Giving Assistance in the Procurement of the Life Insurance Necessary To Provide the Difference, If Any, Between the Needs and the Income Anticipated From Existing Sources.
Claims use since Sept. 19, 1952.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 598,606. Leon C. Schrack, Columbus, Ohio. Filed June 5, 1950.



No claim is made to the words "Certified Cleaning System" or the representation of a chair or a rug apart from the mark as shown.
For Cleaning Carpets, Rugs, and Upholstered Furniture.
Claims use since Mar. 30, 1949.

Ser. No. 630,421. Farris C. Lind, Boise, Idaho. Filed May 28, 1952.

"THE STINKER"

For Gasoline Filling Station Services—Namely, Lubrication and Washing of Motor Vehicles.
Claims use since June 1941.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 582,164. Chicago and Suburban Livery Association, Chicago, Ill. Filed July 19, 1949. COLLECTIVE MARK.



For Renting Vehicles for Use at Funerals and Furnishing Liveried Chauffeurs Therefor.
Claims use since Apr. 15, 1949.

CLASS 106

MATERIAL TREATMENT

Ser. No. 597,166. Ramapo Piece Dye Works, Inc., Sloatsburg, N. Y. Filed May 9, 1950.

RAM-O-DURE

For Finishing of Textile Fabrics To Render Them Crease Resistant.
Claims use since June 1, 1949.

Ser. No. 624,007. Associated Dye & Print Co. Inc., Paterson, N. J. Filed Jan. 24, 1952.

it's a
CRUSHMASTER
finish

The words "It's a Finish" are disclaimed apart from the mark as shown on the drawing.
For Treating Textile Fabrics of Others To Impart a Wrinkle Resistant Finish Thereon.
Claims use since January 1951.

Ser. No. 624,008. Associated Dye & Print Co. Inc., Paterson, N. J. Filed Jan. 24, 1952.

it's a
DUCKMASTER
finish

The words "It's a Finish" are disclaimed apart from the mark as shown on the drawing.
For Treating Fabrics of Others To Impart Water-Repellent Stain and Wrinkle Resistant Finishes Thereto.
Claims use since January 1951.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 605,500. St. John Terrell, doing business under the name and style of Music Circus, Lambertville, N. J., Miami, Fla., and Hyannis, Cape Cod, Mass. Filed Oct. 27, 1950.

★ ST. JOHN TERRELL'S ★
MUSIC CIRCUS



The applicant disclaims the word "Music" apart from from the mark as shown.
For Producing and Directing Musical and Dramatic Presentations.
Claims use since June 1, 1949.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1946. PRINCIPAL REGISTER

576,170. Electronically Operated Liquid Level Controls for Measuring and/or Controlling the Volume of Fluid Product in a Bulk Container. The Creamery Package Mfg. Company, Chicago, Ill.
Filed July 10, 1947, Serial No. 528,263. Published Feb. 10, 1953. Class 26.

576,171. Duplicating Machines, More Particularly, Printing Presses. Davidson Manufacturing Corporation, Chicago, Ill., now by change of name Chicago Duplicator Co., assignor to Davidson Corporation, a corporation of Illinois.
Filed Aug. 30, 1947, Serial No. 532,918. Published Mar. 17, 1953. Class 23.

576,172. Sudsing Soap-Like Detergent in Solid (Non-Liquid) Form for Household and Laundry Purposes. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Apr. 7, 1948, Serial No. 554,044. Published Mar. 31, 1953. Class 52.

576,173. Capsules Containing Ferrous Sulfate, Thiamin Chloride, and Liver Concentrate for Use in the Treatment of Secondary Anemia. Meyer Chemical Company, Detroit, Mich.
Filed May 24, 1948, Serial No. 557,071. Published Mar. 3, 1953. Class 18.

576,174. Tile Made of Aluminum With a Baked Enamel Finish. Marvin Frederick Druckenbrod, Atlanta, Ga., assignor to Alnmitile, Inc., Atlanta, Ga., a corporation of Georgia.
Filed June 9, 1948, Serial No. 558,800. Published July 3, 1951. Class 12.

576,175. Coffee. Morris Siegel, Wilkes-Barre, Pa.
Filed July 8, 1948, Serial No. 560,932. Published Mar. 31, 1953. Class 46.

576,176. Roll Feeds for Power Presses and Punch Presses. Carl G. Peterson Co., East Providence, R. I.
Filed July 27, 1948, Serial No. 562,273. Published Aug. 5, 1952. Class 23.

576,177. Articles of Stainless Steel—Namely, Coffee Services Not Including Knives, Forks, and Spoons; Tea Services Not Including Knives, Forks, and Spoons; Dinner Services, Etc. Aktiebolaget Gense, Eskilstuna, Sweden.
Filed Apr. 12, 1951, Serial No. 564,798. Published Mar. 31, 1953. Class 13.

576,178. Cold Wave Solutions for Professional Use. Rilling Company, New York, N. Y.
Filed Dec. 8, 1948, Serial No. 570,229. Published Nov. 1, 1949. Class 51.

576,179. Wheat Flour. Dixie-Portland Flour Co., Memphis, Tenn., doing business as the Plant Flour Mills, Arkansas City, Kans.
Filed Dec. 3, 1948, Serial No. 571,694. Published Feb. 24, 1953. Class 46.

576,180. Face Powder. Helena Rubinstein, Inc., New York, N. Y.
Filed Jan. 27, 1949, Serial No. 572,926. Published Mar. 31, 1953. Class 51.

576,181. Cleaner for Mechanical Dishwashing Having Water-Conditioning Properties. Eastern Chemical Corporation, Reading, Pa.
Filed Feb. 0, 1949, Serial No. 573,535. Published Oct. 30, 1951. Class 52.

576,182. Liquid Absorbent and Floor Sweeping Compound. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Feb. 25, 1949, Serial No. 574,679. Published Apr. 7, 1953. Class 52.

576,183. Gloves Made of Treated Fabric for Garden and General Utility. Edmont Manufacturing Company, Coshocton, Ohio.
Filed Mar. 11, 1949, Serial No. 575,261. Published Mar. 31, 1953. Class 39.

576,184. Sheet Metal Concrete Forms; Steel Stairways; Steel Towers for Elevated Tanks; Prefabricated Buildings; Steel Doors; Smoke Houses; Smoke Stacks and Outdoor Toilets Including the Building and Built-In Fixtures. Columbian Steel Tank Company, Kansas City, Mo.
Filed May 7, 1949, Serial No. 578,371. Published Mar. 17, 1953. Class 12.

576,185. Heat and/or Pressure Sensitive Chart Paper for Use in Electrocardiographs. Technicon Cardiograph Corporation, New York, N. Y.
Filed June 9, 1949, Serial No. 580,341. Published Feb. 10, 1953. Class 26.

576,186. Liquid Odoriferous Material Suitable for Use in Perfumes and Cosmetics. Givaudan-Delawanna, Inc., New York, N. Y.
Filed July 1, 1949, Serial No. 581,417. Published Mar. 3, 1953. Class 51.

576,187. Wire Rope. Broderick & Bascom Rope Company, St. Louis, Mo.
Filed Sept. 1, 1949, Serial No. 584,315. Published Mar. 31, 1953. Class 7.

576,188. Fabrics of Synthetic Fibers. American Viscose Corporation, Philadelphia, Pa.
Filed Sept. 8, 1949, Serial No. 584,567. Published Dec. 4, 1951. Class 42.

576,189. Hair Dressings. Floyd A. Huff, doing business as Huffson Cosmetic Company, Mansfield, Ohio.
Filed Nov. 12, 1949, Serial No. 587,680. Published Feb. 24, 1953. Class 51.

576,190. Flexible Sheet Material Composed of Asphalt-Impregnated Fabric, for Waterproof Linings and Barriers. Warren Southwest, Inc., Los Angeles, Calif.
Filed Dec. 16, 1949, Serial No. 589,486. Published Mar. 17, 1953. Class 12.

576,191. Field Seeds and Grain Seeds. Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
Filed Jan. 7, 1950, Serial No. 590,512. Published Mar. 31, 1953. Class 1.

576,192. Cosmetics—Namely, Powder, Rouge, Lip Stick, and Eyebrow Pencils in Filled Compacts, and Kits. Arkwright, Incorporated, New York, N. Y.
Filed Jan. 13, 1950, Serial No. 590,792. Published Oct. 17, 1950. Class 51.

576,193. Organosiloxy Compositions for Use as Intermediates in the Production of Resins and Formulating Varnishes, Paints, and Enamels of General Utility. Dow Corning Corporation, Midland, Mich.
Filed Apr. 19, 1950, Serial No. 595,949. Published Mar. 31, 1953. Class 6.

576,194. Textile Softeners. The Tanatex Corporation, New York, N. Y.
Filed May 25, 1950, Serial No. 598,125. Published May 8, 1951. Class 6.

576,195. Preparation for the Treatment of Rheumatism and Arthritis. Martax Botonical Corporation, Chicago, Ill.
Filed June 8, 1950, Serial No. 598,803. Published Mar. 17, 1953. Class 18.

576,196. Acidic Laundry Compound for Use as a Color Brightener and Alkali Neutralizer. The Standard Chemical Works Company, Columbus, Ohio, assignor to Standard Chemical Works Company, Columbus, Ohio, a corporation of Ohio.
Filed July 10, 1950, Serial No. 600,457. Published Mar. 31, 1953. Class 6.

576,197. Synthetic Powdered Soap. Grace-Lee Products Inc., Minneapolis, Minn.
Filed July 31, 1950, Serial No. 601,497. Published Mar. 31, 1953. Class 32.

576,198. Antiseptic Eye Wash and Antiseptic Eye Drops for Care and Treatment of the Eyes. Mecbell F. Harris, doing business as P. M. Pharmaceutical Company, Kansas City, Mo.
Filed Aug. 24, 1950, Serial No. 602,695. Published Mar. 10, 1953. Class 18.

576,199. Rice. Norman Webb Hutchings, Sr. and Norman Webb Hutchings, Jr., doing business under the name China Doll Company, Mobile, Ala.
Filed Sept. 5, 1950, Serial No. 603,147. Published Feb. 24, 1953. Class 46.

576,200. Metal Hose, Flexible Metal Tubing, and Metal Reinforced Hose. Chicago Metal Hose Corporation, Maywood, Ill., now by change of name Flexonics Corporation, a corporation of Illinois.
Filed Sept. 15, 1950, Serial No. 603,570. Published May 29, 1951. Class 35.

576,201. Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Drysifting and Separating, Filtering, Straining, and Process Printing. Tobler, Ernst & Traber, Inc., New York, N. Y.
Filed Oct. 25, 1950, Serial No. 605,450. Published Apr. 7, 1953. Class 42.

576,202. Anti-Histamine Preparation for the Relief of Colds and Hay Fever Sold by Written Prescription Only. Broemmel Pharmaceuticals, San Francisco, Calif.
Filed Nov. 1, 1950, Serial No. 605,716. Published Mar. 3, 1953. Class 18.

576,203. Hormone Preparation. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Nov. 3, 1950, Serial No. 605,878. Published Mar. 3, 1953. Class 18.

576,204. Prefabricated Houses Made of Wood. Texas Housing Company, Dallas, Tex.
Filed Nov. 3, 1950, Serial No. 605,882. Published Mar. 3, 1953. Class 12.

576,205. Detergent and Soap Compound for Use in Steam Cleaning Spraying Machines for Producing Cleaning Spray Mixtures as Well as Cleaning Compound. Homestead Valve Manufacturing Company, Coraopolis, Pa.
Filed Nov. 4, 1950, Serial No. 605,902. Published Mar. 24, 1953. Class 32.

576,206. Saliva Ejector, Anti-Splash Dental Guard, Etc. Dentronics, Inc., Seattle, Wash., assignor to The Dentists' Supply Company of New York, York, Pa.
Filed Nov. 2, 1950, Serial No. 605,978. Published Dec. 25, 1951. Class 44.

576,207. Penicillin and Streptomycin Product for Aqueous Injection and Also in Tablet and Ointment Form. Schenley Laboratories, Inc., New York, N. Y.
Filed Nov. 8, 1950, Serial No. 606,089. Published Mar. 17, 1953. Class 18.

576,208. Shaving Lotion. The Barbasol Company, Indianapolis, Ind.
Filed Nov. 10, 1950, Serial No. 606,199. Published July 31, 1951. Class 51.

576,209. Games and Toys—Namely, Target Games and Targets, Etc. Jack Bregman, Los Angeles, Calif.
Filed Nov. 21, 1950, Serial No. 606,694. Published Apr. 7, 1953. Class 22.

576,210. Photographic Equipment, and/or Photographic Accessories, Etc. Graflex, Inc., Rochester, N. Y.
Filed Dec. 5, 1950, Serial No. 607,286. Published Feb. 17, 1953. Class 26.

576,211. Acoustical Tile Suspension System. The Celotex Corporation, Chicago, Ill.
Filed Dec. 13, 1950, Serial No. 607,618. Published Mar. 10, 1953. Class 12.

576,212. Laundry Sour. Diamond Alkali Company, Cleveland, Ohio.
Filed Dec. 16, 1950, Serial No. 607,740. Published Apr. 7, 1953. Class 6.

576,213. Candy. The House of Bauer, doing business as Bauer's, Lincoln, Nebr.
Filed Dec. 21, 1950, Serial No. 607,922. Published Sept. 23, 1952. Class 46.

576,214. Residential, Industrial, and Architectural Steel Windows, Sold as Units Complete With Window Fittings, Etc. Copco Steel & Engineering Company, Detroit, Mich., and Newark, N. J.
Filed Dec. 22, 1950, Serial No. 607,983. Published Mar. 24, 1953. Class 12.

576,215. Enteric Coated Tablet Which Is Used as an Intestinal Disinfectant in the Treatment of Human Intestinal Disorders. Geigy Company, Inc., New York, N. Y.
Filed Dec. 27, 1950, Serial No. 608,108. Published Mar. 24, 1953. Class 18.

576,216. Hand Cream Used To Remove Stains Resulting From the Handling of Duplicating Materials. Polychrome Corporation, Yonkers, N. Y.
Filed Dec. 27, 1950, Serial No. 608,123. Published Mar. 17, 1953. Class 51.

576,217. Piece Goods—Namely, Denims, Caverts, Whipcords, Ticking, Drills, Twills, Sheetings, Sailings, All Woven From Cotton Fibers. Texas Textile Mills, Dallas, Tex.
Filed Jan. 8, 1951, Serial No. 608,321. Published Mar. 24, 1953. Class 42.

576,218. Wall Paper Paste. Mo och Domsjö Aktiebolag, Harnosand, Sweden.
Filed Feb. 10, 1951, Serial No. 609,940. Published July 8, 1952. Class 5.

576,219. Lingerie—Namely, Slips, Nightgowns, Robes, Pajamas, Petticoats, Panties, and Bed Jackets, for Women and Girls. Mary P. Giovinazzi, New York, N. Y.
Filed Feb. 17, 1951, Serial No. 610,211. Published Mar. 31, 1953. Class 39.

576,220. Personal Internal Systemic Deodorant Tablet. The Pharma-Craft Corporation, New York, N. Y.
Filed Feb. 17, 1951, Serial No. 610,226. Published Mar. 24, 1953. Class 18.

576,221. Abrasive Oil Stones or Hones for Use on Rotating Spindles for Sharpening of Cutlery, Chisels and Other Sharp-Edged Tools. The Black and Decker Manufacturing Company, Towson, Md.
Filed Feb. 26, 1951, Serial No. 610,506. Published Aug. 19, 1952. Class 4.

576,222. Flush Valves, Water Closet Combinations, Etc. Sloan Valve Company, Chicago, Ill.
Filed Feb. 27, 1951, Serial No. 610,589. Published Apr. 7, 1953. Class 13.

576,223. Stockings, Hosiery for Men and Women. Etablissements Vitoux, Troyes (Aube), France.
Filed Mar. 7, 1951, Serial No. 610,958. Published Mar. 31, 1953. Class 39.

576,224. Wallets, Billfolds, and Removable Pass Cases. Philip Florin, Inc., New York, N. Y.
Filed Mar. 10, 1951, Serial No. 611,128. Published Mar. 31, 1953. Class 3.

576,225. Face Cream. Bristol-Myers Company, New York, N. Y.
Filed Mar. 22, 1951, Serial No. 611,636. Published Feb. 24, 1953. Class 51.

576,226. Insecticides. Guaranteed Sanitation, Inc., doing business as Guarantee Exterminating Company, New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,068. Published Dec. 2, 1952. Class 6.

576,227. Medicinal Preparations or Ingredients Thereof—Namely, Albumen Test Solution, Etc. O'Connell Brothers, Inc., Overland and St. Louis, Mo.
Filed May 1, 1951, Serial No. 613,280. Published Dec. 30, 1952. Class 18.

576,228. Nonmedicinal Hair and Scalp Cream, and a Preparation for Straightening and Dressing the Hair. Herman Smithline, doing business under the trade name and style of Herman Chemical Co., New York, N. Y.
Filed May 1, 1951, Serial No. 613,385. Published Mar. 17, 1953. Class 51.

576,229. Dressing Cream for the Hair. Herman Smithline, doing business under the trade name and style of Hair-Rite Chemical Co., New York, N. Y.
Filed May 1, 1951, Serial No. 613,386. Published Mar. 17, 1953. Class 51.

576,230. Men's, Boys', and Children's Cotton Underwear; Infants' and Children's Cotton Sleepers; Boys' and Girls' Pajama Type Cotton Sleepers; Men's Cotton Pajamas and Men's and Boys' Cotton T-Shirts, Polo Shirts, and Basque Shirts. Standard Knitting Mills, Inc., Knoxville, Tenn.
Filed May 11, 1951, Serial No. 613,793. Published Mar. 31, 1953. Class 39.

576,231. Glue and an Adhesive Agent for Use With Insecticides and Fungicides. Armour and Company, Chicago, Ill.
Filed May 21, 1951, Serial No. 614,123. Published Mar. 31, 1953. Class 5.

576,232. Hair Bleach Preparation. Robert Harris, New York, N. Y.
Filed May 21, 1951, Serial No. 614,145. Published Mar. 10, 1953. Class 51.

576,233. Polish and Dressing (In the Nature of Polishes) All for Leatherwear. Tuxan Limited, London, England.
Filed May 24, 1951, Serial No. 614,321. Published Mar. 31, 1953. Class 4.

576,234. Ornamental Lace Head Covering for Ladies. Dolores McFaull, New York, N. Y.
Filed June 4, 1951, Serial No. 614,706. Published Mar. 31, 1953. Class 39.

576,235. Radio Receiving Sets, and Dry Cell Batteries, and Television Sets. Spiegel, Inc., Chicago, Ill.
Filed June 22, 1951, Serial No. 615,580. Published Mar. 24, 1953. Class 21.

576,236. Frequency Stabilizing Apparatus, Including Component Parts Thereof. Servo Corporation of America, New Hyde Park, N. Y.
Filed June 30, 1951, Serial No. 615,945. Published Mar. 24, 1953. Class 21.

576,237. Drugs and Preparations for Use Against Capillary Defects Associated, for Instance, With Hypertension, Etc. Rhein-Chemie G. m. b. H., Heidelberg, Germany.
Filed July 5, 1951, Serial No. 616,128. Published Mar. 3, 1953. Class 18.

576,238. Ladies' Underwear and Fabric Gloves. Gotham Hosiery Company, Inc., New York, N. Y.
Filed July 6, 1951, Serial No. 616,170. Published Mar. 31, 1953. Class 39.

576,239. Sodium Gentisate, in Powder, Tablets, and Injections. Gold Leaf Pharmacal Company, Inc., New Rochelle, N. Y.
Filed July 11, 1951, Serial No. 616,314. Published July 15, 1952. Class 18.

576,240. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed July 14, 1951, Serial No. 616,500. Published Dec. 25, 1951. Class 42.

576,241. Fire Cement, and High-Temperature Cement, Both in Dry and Plastic Form. Kolb Refractories Company, Philadelphia, Pa.
Filed July 19, 1951, Serial No. 616,672. Published Mar. 3, 1953. Class 12.

576,242. Vitamin Tonic. Dr. Geo. S. Long Corporation, Pineville, La.
Filed July 20, 1951, Serial No. 616,720. Published Mar. 10, 1953. Class 18.

576,243. Liquid Preparation for Treatment of and Relief From Fungous Infections of the Skin, Such as Athlete's Foot. Elars Products, Inc., Richmond, Va.
Filed July 27, 1951, Serial No. 617,020. Published Mar. 3, 1953. Class 18.

576,244. Hair Pre-Wave Lotion and Developer Powders for Home Permanent Waving. James L. Younghusband, Chicago, Ill., assignor to Jacques Wollard, New York, N. Y.
Filed July 28, 1951, Serial No. 617,101. Published Feb. 24, 1953. Class 51.

576,245. Antianemic Preparation. Parke, Davis & Company, Detroit, Mich.
Filed Aug. 1, 1951, Serial No. 617,208. Published Mar. 17, 1953. Class 18.

576,246. Apparatus for Remote Control Dictation Systems Each Including a Dictator's Station, a Power Pack, and a Remote Sound Recording and Sound Reproducing Machine Connected to Said Dictator's Station. Thomas A. Edison, Incorporated, West Orange, N. J.
Filed Aug. 3, 1951, Serial No. 617,282. Published Mar. 24, 1953. Class 21.

576,247. Dyspepsia Tablets. Dr. Richards Association, Inc., Norwalk, Conn.
Filed Aug. 20, 1951, Serial No. 617,880. Published Mar. 3, 1953. Class 18.

576,248. Metal Ribbed Cross-Bridging for Floor Joists. Frantbet Metal Craft, Inc., Jamaica, N. Y.
Filed Aug. 24, 1951, Serial No. 618,032. Published Mar. 24, 1953. Class 13.

576,249. Machines Which Test and Record Upon Charts Texture of Bread Dough, Including Its Extensibility and Resistance to Extension. Brabender Corporation, Rochelle Park, N. J.
Filed Aug. 28, 1951, Serial No. 618,147. Published Feb. 24, 1953. Class 26.

576,250. Metal Strap Fastening Seals, Corrugated Wood Fasteners, Joint Fasteners, Freight Car Door Straps, and Metal Barbed Box Straps. Acme Steel Company, Chicago, Ill.
Filed Aug. 30, 1951, Serial No. 618,222. Published Oct. 7, 1952. Class 13.

576,251. Medicated Dressings for Veterinary Use. Thoroughbred Remedy Corp., Elmont, N. Y.
Filed Sept. 4, 1951, Serial No. 618,379. Published Mar. 17, 1953. Class 18.

576,252. Shaving Cream, After-Shave Lotion, Deodorant Cream, and Hair Dressing. Richard Hudnut, New York, N. Y.
Filed Sept. 19, 1951, Serial No. 618,966. Published Mar. 17, 1953. Class 51.

576,253. Underarm Deodorant. Bridgeport Brass Company, Bridgeport, Conn.
Filed Sept. 20, 1951, Serial No. 619,008. Published Feb. 24, 1953. Class 51.

576,254. Scales and Automatic Weighing, Totalizing, and Recording Machines and Their Parts. N. V. Servo-Balans, The Hague, Netherlands.
Filed Sept. 24, 1951, Serial No. 619,165. Published Feb. 24, 1953. Class 26.

576,255. Candy and Chewing Gum. Candy Crafters, Inc., Lansdowne, Pa.
Filed Sept. 27, 1951, Serial No. 619,292. Published Sept. 23, 1952. Class 46.

576,256. Electronic Equipment—Namely, Electronic Heterodyne Frequency Meters. Federal Manufacturing & Engineering Corp., Brooklyn, N. Y.
Filed Sept. 27, 1951, Serial No. 619,295. Published Feb. 24, 1953. Class 26.

576,257. Composition Shingles. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Oct. 4, 1951, Serial No. 619,558. Published Mar. 24, 1953. Class 12.

576,258. Release Retainers for the Latches of Swinging Doors Such as Used on Commercial Refrigerators and the Like. Homer W. Glidden, Sierra Madre, Calif.
Filed Oct. 4, 1951, Serial No. 619,571. Published Mar. 24, 1953. Class 25.

576,259. Internal Combustion Engine Fuel and Lubricant Dispensing Pumps, Etc. Martin & Schwartz, Inc., Salisbury, Md., assignor to The Wayne Pump Company, a corporation of Maryland.
Filed Oct. 5, 1951, Serial No. 619,639. Published Feb. 24, 1953. Class 26.

576,260. Perfume Ingredients. Farbenfabriken Bayer, Krefeld-Uerdingen, Germany.
Filed Aug. 9, 1951, Serial No. 619,862. Published Mar. 17, 1953. Class 51.

576,261. Chemical Composition for Use as a Stabilizer in the Manufacture of Plastic and Rubber Products. National Lead Company, Sayreville, N. J., and New York, N. Y.
Original filed, act of 1946, Supplemental Register, Oct. 23, 1951; amended to application, Principal Register, Sept. 23, 1952, Serial No. 620,356. Published Mar. 31, 1953. Class 6.

576,262. Vitamin Preparation. Marvin R. Thompson, Inc., Stamford, Conn.
Filed Oct. 23, 1951, Serial No. 620,374. Published Mar. 17, 1953. Class 18.

576,263. Enzyme Preparation of Fungal Origin Used To Convert Starches and Hydrolysis Products of Starches to Simpler Sugars Such as Maltose and Dextrose. Takamine Laboratory, Inc., Clifton, N. J.
Filed Nov. 6, 1951, Serial No. 620,938. Published Apr. 7, 1953. Class 6.

576,264. Chemical Composition for Use as a Stabilizer in the Manufacture of Plastic and Rubber Products. National Lead Company, Sayreville, N. J., and New York, N. Y.
Original filed, act of 1946, Supplemental Register, Nov. 15, 1951; amended to application, Principal Register, Oct. 11, 1952, Serial No. 621,281. Published Apr. 7, 1953. Class 6.

576,265. Laundry Bleach. Eaton Chemical and Dyestuff Company, Detroit, Mich.
Filed Nov. 23, 1951, Serial No. 621,550. Published Apr. 7, 1953. Class 6.

576,266. Appetite Satient Compositions of Low Calorie Content in Tablet, Capsule, Powder, and Liquid Form. Edgar A. Ferguson, Jr., Brooklyn, N. Y.
Filed Nov. 26, 1951, Serial No. 621,666. Published Mar. 3, 1953. Class 18.

576,267. Rodenticides. D-Con Company, Inc., Chicago, Ill.
Filed Nov. 29, 1951, Serial No. 621,818. Published Apr. 7, 1953. Class 6.

576,268. Chemical Preparations Used for Staining and Finishing and Preserving Shoes, Leather, and Imitation Leather. Gagan Brothers, Inc., Everett, Mass.
Filed Dec. 7, 1951, Serial No. 622,210. Published Mar. 31, 1953. Class 6.

576,269. Aqueous Solution of Sodium Hypochlorite, Etc. Gardiner Manufacturing Company, Inc., Buffalo, N. Y.
Filed Dec. 15, 1951, Serial No. 622,534. Published Mar. 17, 1953. Class 18.

576,270. Fabric Covered Folding Door. Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Ind.
Filed Dec. 26, 1951, Serial No. 622,827. Published Mar. 17, 1953. Class 12.

576,271. Combined Billfold and Coin Purse. Amity Leather Products Co., West Bend, Wis.
Filed Dec. 29, 1951, Serial No. 622,974. Published Mar. 31, 1953. Class 3.

576,272. Miscellaneous Electrical Houseware Appliances—Namely, Toasters, Mixers, Grills, Etc. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,104. Published Mar. 17, 1953. Class 21.

576,273. Mechanical Exponent Counter for Slide Rules. Charles L. Weckesser, doing business as Weck, Norwich, N. Y.
Filed Jan. 3, 1952, Serial No. 623,171. Published Feb. 24, 1953. Class 26.

576,274. Nail Polish. Peggy Sage, Inc., doing business under the style of Peggy Sage, Stamford, Conn.
Filed Jan. 8, 1952, Serial No. 623,317. Published Mar. 17, 1953. Class 51.

576,275. Wheel Supported Sighting and Indicating Devices for Testing Wheel Alignment. Wilco Products, Inc., Orange, N. J.
Filed Dec. 19, 1951, Serial No. 623,526. Published Feb. 24, 1953. Class 26.

576,276. Building Materials—Namely, Concrete Aggregates, Treated and Untreated, Concrete Blocks, Slabs, and Panels. Van A. Hamilton, Palestine, Tex.
Filed Jan. 15, 1952, Serial No. 623,598. Published Mar. 24, 1953. Class 12.

576,277. Sheet and Strip Material Formed from a Special Alloy Steel. Allegheny Ludlum Steel Corporation, Pittsburgh, Pa.
Filed Jan. 19, 1952, Serial No. 623,790. Published Mar. 17, 1953. Class 14.

576,278. Insect Repellent Used in Direct Application to the Skin. William M. Foord, Litchfield, Conn.
Filed Jan. 19, 1952, Serial No. 623,798. Published Apr. 7, 1953. Class 6.

576,279. Biliary Stimulant for Intestinal Toxemia and as a Gall Bladder Stimulant. The Drug Products Co., Inc., East Orange, N. J.
Filed Jan. 21, 1952, Serial No. 623,826. Published Mar. 24, 1953. Class 18.

576,280. Liquid Preparation Indicated in the Treatment of Acne in All Its Forms, Blotches, Pimples, Eczema of Certain Character, and Skin Irritations. The Drug Products Co., Inc., East Orange, N. J.
Filed Jan. 21, 1952, Serial No. 623,828. Published Mar. 24, 1953. Class 18.

576,281. Vitamin A Capsules and Fortified Liver Compound in Capsule Form for Medicinal and Dietary Purposes. Virgil Edgar Meadows, Bronxville, N. Y.
Filed Jan. 22, 1952, Serial No. 623,897. Published Mar. 3, 1953. Class 18.

576,282. Spark Plugs for Internal Combustion Engines. Circofire Spark Plug Company, Hamtramck, Mich.
Filed Jan. 23, 1952, Serial No. 623,949. Published Mar. 31, 1953. Class 21.

576,283. Bath Bubbling and Perfuming Compound, Skin Lotion, Toilet Water, Cologne. Thomas Sistrunk, doing business under the style name of Sistrunk Cosmetics Dist., Chicago, Ill.
Filed Jan. 23, 1952, Serial No. 623,989. Published Mar. 10, 1953. Class 51.

576,284. Hosiery for Women and Girls. Martin Katz, doing business as Art Mode Hosiery, St. Louis, Mo.
Filed Jan. 26, 1952, Serial No. 624,138. Published Mar. 31, 1953. Class 39.

576,285. Safes, Money Chests, and Vaults. Herring-Hall-Marvin Safe Company, Hamilton, Ohio.
Filed Jan. 30, 1952, Serial No. 624,270. Published Mar. 24, 1953. Class 25.

576,286. Men's Overcoats and Top Coats. Louis Sunderland, doing business as Louis Sunderland Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,374. Published Mar. 31, 1953. Class 39.

576,287. Preparation for the Treatment of Hormonal Deficiencies. The Upjohn Company, Kalamazoo, Mich.
Filed Feb. 1, 1952, Serial No. 624,434. Published Mar. 3, 1953. Class 18.

576,288. Files. Etrofile & Tool Manufacturing Corp., Brooklyn, N. Y.
Filed Feb. 4, 1952, Serial No. 624,480. Published Mar. 24, 1953. Class 23.

576,289. Frozen Confections on Sticks, and a Liquid Concentrate for Making the Same. Fruit Products Corporation, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,535. Published Dec. 23, 1952. Class 46.

576,290. Medicinal Bitters. Martini & Rossi Corporation, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,552. Published Mar. 3, 1953. Class 18.

576,291. Women's and Misses' Hats, Caps, Bonnets, Veils, and Headdresses—Namely, Berets, Tam o' Shanters, Topees, Toques, Wimples, Hoods, Snoods, Turbans, Helmets for Ordinary Wear, and Headbands. Saks & Company, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,568. Published Mar. 24, 1953. Class 39.

576,292. Pharmaceutical Preparation Used as a Dietary Supplement in Pre-Natal Care and for Sub-Nutritional Conditions. Rand Pharmaceutical Co., Inc., Albany, N. Y.
Filed Feb. 9, 1952, Serial No. 624,758. Published Mar. 17, 1953. Class 18.

576,293. Cologne. Jack B. Nethercutt, doing business as Nethercutt Laboratories, Santa Monica, Calif.
Filed Feb. 11, 1952, Serial No. 624,789. Published Mar. 17, 1953. Class 51.

576,294. Cosmetics—Namely, Lipsticks and Nail Polish. Jack B. Nethercutt, doing business as Nethercutt Laboratories, Santa Monica, Calif.
Filed Feb. 11, 1952, Serial No. 624,792. Published Mar. 17, 1953. Class 51.

576,295. Chemical Preparation To Be Used as a Moth Killer and a Container Therefor. Henry A. Enrich & Co., Inc., New York, N. Y.
Filed Feb. 15, 1952, Serial No. 625,005. Published Mar. 17, 1953. Class 6.

576,296. Medical Preparation—Namely, an Intra-Muscular Injection of Estrone and Testosterone for Treatment of Endocrine Glandular Deficiency. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Feb. 15, 1952, Serial No. 625,029. Published Mar. 24, 1953. Class 18.

576,297. Permanent Wave Solution. Jules E. Bernfeld, trading as Jules, Alexandria and Arlington, Va.
Filed Feb. 18, 1952, Serial No. 625,091. Published Mar. 3, 1953. Class 51.

576,298. Men's, Women's, and Children's Underwear, Pajamas, Sport Shirts, Beach Shirts, Beach Coats, and Bathing Suits. Robert Reis & Co., New York, N. Y.
Filed Feb. 18, 1952, Serial No. 625,129. Published Mar. 31, 1953. Class 39.

576,299. Voltage Regulators Used for Regulating the Direct Current Voltage Derived From Rectified Alternating Current. Sorensen & Company, Inc., Stamford, Conn.
Filed Feb. 18, 1952, Serial No. 625,135. Published Mar. 31, 1953. Class 21.

576,300. Deodorant Preparation in Cake Form for Urinals and Water Closets. West Disinfecting Company, Long Island City, N. Y.
Filed Feb. 18, 1952, Serial No. 625,175. Published Apr. 7, 1953. Class 6.

576,301. Gloves of Leather or Fabric or a Combination Thereof. Butler Ames, Lowell, Mass.
Filed Feb. 29, 1952, Serial No. 625,708. Published Mar. 31, 1953. Class 39.

576,302. Draftsmen's Articles—Namely, Protractors, Drawing Templates, Lettering Guides, and Line Drawing Guide Devices—Namely, Triangles, Curves, T-Squares, Rulers, and Straightedges. Eugene Dietzgen Co., Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,720. Published Feb. 3, 1953. Class 26.

576,303. Electrically Operated Audible and/or Visual Signal Devices Used To Denote Power Failure. Sperti Faraday Inc., Cincinnati, Ohio, and Adrian, Mich.
Filed Feb. 29, 1952, Serial No. 625,771. Published Mar. 31, 1953. Class 21.

576,304. Ladies' Outer Wearing Apparel—Namely, Housecoats, Smocks, Brunch Coats, Dresses, Dusters. Smart Set Frocks, New York, N. Y.
Filed Mar. 1, 1952, Serial No. 625,827. Published Mar. 31, 1953. Class 39.

576,305. Rodenticide. The d-Con Company, Inc., Chicago, Ill.
Filed Mar. 4, 1952, Serial No. 625,891. Published Mar. 31, 1953. Class 6.

576,306. Men's and Women's Pajamas. Wilker Bros. Co., New York, N. Y.
Filed Mar. 4, 1952, Serial No. 625,938. Published Oct. 21, 1952. Class 39.

576,307. Men's and Boys' Shirts, Collars and Cuffs, Underwear, Undershirts, Under Shorts, and Pajamas. Piedmont Shirt Company, Greenville, S. C.
Filed Mar. 7, 1952, Serial No. 626,113. Published Mar. 24, 1953. Class 39.

576,308. Rules, Calculating Rules, Triangles, and T-Squares. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J.
Filed Mar. 8, 1952, Serial No. 626,158. Published Feb. 3, 1953. Class 26.

576,309. Ceramic Tile Cement and Wallboard Cement. Miracle Adhesives Corporation, New York, N. Y.
Filed Mar. 10, 1952, Serial No. 626,213. Published Apr. 7, 1953. Class 5.

576,310. Hosiery for Men, Women, and Children. Television Hosiery Corporation, New York, N. Y.
Filed Mar. 10, 1952, Serial No. 626,222. Published Mar. 31, 1953. Class 39.

576,311. Men's and Women's Hosiery. Chester H. Roth Co., Inc., New York, N. Y.
Filed Mar. 12, 1952, Serial No. 626,344. Published Mar. 31, 1953. Class 39.

576,312. Face Lotion. Carlos C. Marroquin, doing business under the name of Nova Laboratories, San Antonio, Tex.
Filed Mar. 19, 1952, Serial No. 626,681. Published Mar. 17, 1953. Class 51.

576,313. Accordions. Sam Ferri, Yakima, Wash.
Filed Mar. 21, 1952, Serial No. 626,788. Published Apr. 7, 1953. Class 36.

576,314. Fluid Compressors for Compressing Gasses and Liquids. Carrier Corporation, Syracuse, N. Y.
Filed Mar. 22, 1952, Serial No. 626,853. Published Mar. 24, 1953. Class 23.

576,315. Fabric Work Gloves. Wells Lamont Corporation, Chicago, Ill.
Filed Mar. 25, 1952, Serial No. 627,024. Published Mar. 31, 1953. Class 39.

576,316. Rope and Twine. Columbian Rope Company, Auburn, N. Y.
Filed Mar. 28, 1952, Serial No. 627,175. Published Mar. 31, 1953. Class 7.

576,317. Twine. Columbian Rope Company, Auburn, N. Y.
Filed Mar. 28, 1952, Serial No. 627,176. Published Mar. 31, 1953. Class 7.

576,318. Sulfonated Tallow Products for General Industrial Use and Particularly for Use in the Treatment of Textiles. Nopco Chemical Company, Harrison, N. J.
Filed Mar. 29, 1952, Serial No. 627,273. Published Mar. 31, 1953. Class 6.

576,319. Infant's Creeper. Perfect Knit Togs, Inc., New York, N. Y.
Filed Mar. 29, 1952, Serial No. 627,275. Published Mar. 24, 1953. Class 39.

576,320. Frozen Seafood Products—Namely, Rock Lobster Tails, Frog Legs, Snapper Fillets, Turtle Meat, Lobster Meat, Fish Fillets, Grouper Fillets, and Shrimps. Atalanta Trading Corp., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,665. Published Mar. 31, 1953. Class 46.

576,321. Steel Sheets. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,721. Published Mar. 10, 1953. Class 14.

576,322. Electrically Operated Machine Comprising a Suction Floor Polisher; Floor Scrubber; Floor Drier and Squeegee; Etc. Columbus Limited, Wembley, Middlesex, England.
Filed Apr. 9, 1952, Serial No. 627,810. Published Mar. 31, 1953. Class 21.

576,323. Chlorophyll Suppositories. Q/A Company, Inc., Jersey City, N. J.
Filed Apr. 9, 1952, Serial No. 627,834. Published Mar. 24, 1953. Class 18.

576,324. Automobile Camp and House Trailer. Traveleer Trailer Company, Incorporated, Hawthorne, Calif.
Filed Apr. 11, 1952, Serial No. 627,987. Published Apr. 7, 1953. Class 19.

576,325. Universal Joints. Republic Gear Company, Detroit, Mich.
Filed Apr. 21, 1952, Serial No. 628,427. Published Mar. 24, 1953. Class 23.

576,326. Harmonicas. The Fred. Gretsch Manufacturing Company, Brooklyn, N. Y.
Filed Apr. 17, 1952, Serial No. 628,202. Published Apr. 7, 1953. Class 36.

576,327. Dyes and Dyestuffs. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Apr. 18, 1952, Serial No. 628,266. Published Apr. 7, 1953. Class 6.

576,328. Ladies', Men's, Boys', and Girls' Clothing—Namely, Hats, Etc. Arthur W. Kelly, New York, N. Y.
Filed Apr. 18, 1952, Serial No. 628,280. Published Mar. 31, 1953. Class 39.

576,329. Organic Compounds Having Hydrophobic and Hydrophilic Groups, Etc. Process Chemicals Company, Los Angeles, Calif.
Filed Apr. 18, 1952, Serial No. 628,293. Published Mar. 24, 1953. Class 6.

576,330. Thread. Groves Thread Company, Inc., Gastonia, N. C.
Filed Mar. 31, 1952, Serial No. 628,335. Published Mar. 31, 1953. Class 43.

576,331. Chrome-Dyestuffs. Durand & Huguenin A. G., Basel, Switzerland.
Filed Apr. 24, 1952, Serial No. 628,618. Published Apr. 7, 1953. Class 6.

576,332. Dyestuffs. Durand & Huguenin A. G., Basel, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 140,818, filed Dec. 20, 1951.
Filed Apr. 24, 1952, Serial No. 628,619. Published Mar. 31, 1953. Class 6.

576,333. Ladies' Blouses, Shirt Waists, and Waists. Lerner Blouse Co., Philadelphia, Pa.
Filed Apr. 25, 1952, Serial No. 628,697. Published Mar. 31, 1953. Class 39.

576,334. Pants, Shirts, and Dungarees for Men, Women, and Children. B. F. Davis Garment Co. Inc., New Orleans, La.
Filed May 1, 1952, Serial No. 628,999. Published Mar. 24, 1953. Class 39.

576,335. Asphaltic Coatings for Waterproofing, Sealing, and Filling Building Structures and the Like. Phil King's Enterprises, also doing business as Kingkold Asphaltic Products, Tucson, Ariz.
Filed May 1, 1952, Serial No. 629,028. Published Mar. 10, 1953. Class 12.

576,336. Cardboard Box-Making Machines and Parts Therefor. Henry Russell Davis, Jr., Contoocook, N. H.
Filed May 2, 1952, Serial No. 629,091. Published Mar. 24, 1953. Class 23.

576,337. Lubricating Oil and Lubricating Greases. A. T. Juniper Limited, Liverpool, England.
Filed May 12, 1952, Serial No. 629,573. Published Mar. 24, 1953. Class 15.

576,338. Plastic Clothes Lines. Shuford Mills, Inc., Hickory, N. C.
Filed May 12, 1952, Serial No. 629,587. Published Apr. 7, 1953. Class 7.

576,339. Adhesive Cement Formed From Natural and Synthetic Rubber and Resins, Etc. Rubber and Asbestos Corporation, Bloomfield, N. J.
Filed May 15, 1952, Serial No. 629,751. Published Apr. 7, 1953. Class 5.

576,340. Adhesive Cement Formed From Natural and Synthetic Rubber and Resins, Etc. Rubber and Asbestos Corporation, Bloomfield, N. J.
Filed May 15, 1952, Serial No. 629,752. Published Apr. 7, 1953. Class 5.

576,341. Quick Release Fasteners and Clips for Securing Sheet Material to a Structural Member, and Quick Release Pins for Attaching an Article to a Support. Heli-Coil Corporation, Danbury, Conn.
Filed May 16, 1952, Serial No. 629,797. Published Mar. 24, 1953. Class 13.

576,342. Skin Lotion in Stick Form. Lucien Lelong, Inc., Chicago, Ill.
Filed May 21, 1952, Serial No. 630,010. Published Mar. 17, 1953. Class 51.

576,343. Lawn Mowers. Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn.
Filed May 24, 1952, Serial No. 630,234. Published Mar. 24, 1953. Class 23.

576,344. Nail Enamel and Lipstick. Revlon Products Corporation, New York, N. Y.
Filed May 28, 1952, Serial No. 630,438. Published Mar. 17, 1953. Class 51.

576,345. Tool Steel and Steel Bars, Rods, and Sheets. Hawkridge Brothers Company, Boston, Mass.
Filed June 5, 1952, Serial No. 630,779. Published Mar. 31, 1953. Class 14.

576,346. Tool Steel and Steel Bars, Rods, and Sheets. Hawkridge Brothers Company, Boston, Mass.
Filed June 5, 1952, Serial No. 630,780. Published Mar. 31, 1953. Class 14.

576,347. Knitted Fabrics in the Piece Made in Substantial Part of Wool Combined With Synthetic Fibers, Etc. I. A. Wyner & Co., Inc., New York, N. Y.
Filed June 7, 1952, Serial No. 630,914. Published Apr. 7, 1953. Class 42.

576,348. Perfume and Cologne. Roliey, Inc., San Francisco, Calif.
Filed June 9, 1952, Serial No. 630,956. Published Mar. 17, 1953. Class 51.

576,349. Men's and Boys' Outer Shirts, Robes, Swim Shorts, and Play Shorts. Cisco, Inc., New York, N. Y.
Filed June 13, 1952, Serial No. 631,146. Published Mar. 24, 1953. Class 39.

576,350. High Potency Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins. Nopco Chemical Company, Harrison, N. J.
Filed June 18, 1952, Serial No. 631,369. Published Mar. 17, 1953. Class 18.

576,351. High Potency Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins. Nopco Chemical Company, Harrison, N. J.
Filed June 18, 1952, Serial No. 631,370. Published Mar. 17, 1953. Class 18.

576,352. Cast Pipe Fittings Made of Stainless Steel Alloys, More Specifically, 45° L's, 90° L's, Long Radius L's, Double Branch L's, Side Outlet T's, Crosses, Laterals, Reducers, Flanges, Gate Valves, Needle Valves, Disc Valves, and Check Valves. The Cooper Alloy Foundry Co., Hillside, N. J.
Filed June 20, 1952, Serial No. 631,471. Published Mar. 10, 1953. Class 13.

576,353. Aluminum Shingles. Reynolds Metals Company, Richmond, Va.
Filed June 20, 1952, Serial No. 631,494. Published Mar. 17, 1953. Class 12.

576,354. Siliceous Material in Powdered or Finely Granular Form, Etc. Sun Chemical Corporation, Long Island City, N. Y.
Filed June 20, 1952, Serial No. 631,505. Published Mar. 31, 1953. Class 6.

576,355. Tablets for Analgesic and Antipyretic Purposes. Ames Company, Inc., Elkhart, Ind.
Filed June 26, 1952, Serial No. 631,515. Published Mar. 31, 1953. Class 18.

576,356. Grooved Phonograph Records. Mercury Record Corporation, Chicago, Ill.
Filed June 24, 1952, Serial No. 631,674. Published Apr. 7, 1953. Class 36.

576,357. Women's Fur Garments—Namely, Coats, Capes, Jackets, Wraps, Neckpieces, Stoles, and Collars. Neiman-Marcus Company, Dallas, Tex.
Filed June 26, 1952, Serial No. 631,812. Published Mar. 31, 1953. Class 39.

576,358. Antituberculer Comprising Isonicotinic Acid Hydrazide. The Wm. S. Merrell Company, Cincinnati, Ohio.
Filed June 28, 1952, Serial No. 631,938. Published Mar. 10, 1953. Class 18.

576,359. Enteral Tube Feeding Solution in the Nature of a Sterile Food Mixture. Dade Reagents, Inc., Miami, Fla.
Filed July 1, 1952, Serial No. 632,019. Published Mar. 10, 1953. Class 18.

576,360. Antacid Tablets. Horlicks Limited, Slough, England.
Priority under Sec. 44(d). British Registration No. 704,452, filed Jan. 29, 1952.
Filed July 2, 1952, Serial No. 632,085. Published Mar. 24, 1953. Class 18.

576,361. Nose Drops and Cold Capsules. Rhinopto Company, Dallas, Tex.
Filed July 3, 1952, Serial No. 632,133. Published Mar. 24, 1953. Class 18.

576,362. Children's Blouses. Harry Glaser, Inc., New York, N. Y.
Filed July 7, 1952, Serial No. 632,206. Published Mar. 31, 1953. Class 39.

576,363. Flatwork Spreading Machines. M. A. Pocock, Minneapolis, Minn.
Filed July 10, 1952, Serial No. 632,385. Published Mar. 24, 1953. Class 24.

576,364. Sewing Thread of Schappe and Real Silk. Göttermann & Co., K. G., Zurich and Glarus, Switzerland.
Filed July 12, 1952, Serial No. 632,475. Published Mar. 31, 1953. Class 43.

576,365. Medical Preparation in Syrup and Capsule Form for Use in Treatment of Conditions Arising From Deficiency of Vitamin B Complex. Drug Specialties, Inc., Winston-Salem, N. C.
Filed July 14, 1952, Serial No. 632,511. Published Mar. 24, 1953. Class 18.

576,366. Medical Preparation in Capsule Form for Use in Secondary Anemia To Increase Hemoglobin Count in Blood. Drug Specialties, Inc., Winston-Salem, N. C.
Filed July 14, 1952, Serial No. 632,512. Published Mar. 3, 1953. Class 18.

576,367. Medical Preparation in Elixir Form for the Use in Treatment of Insomnia, Hysteria, Neurasthenia, Hyperthyroidism, Epilepsy, and Related Illnesses. Drug Specialties, Inc., Winston-Salem, N. C.
Filed July 14, 1952, Serial No. 632,513. Published Mar. 3, 1953. Class 18.

576,368. Medical Preparation in Capsule and Elixir Form for Use in Prevention and Treatment of Vitamin Deficiencies. Drug Specialties, Inc., Winston-Salem, N. C.
Filed July 14, 1952, Serial No. 632,516. Published Mar. 10, 1953. Class 18.

576,369. Women's Hosiery. Frank J. Kros, trading under the name Fashion Crest Hosiery Co., Hatfield, Pa.
Filed July 17, 1952, Serial No. 632,676. Published Mar. 31, 1953. Class 39.

576,370. Women's, Misses', and Junior Misses' Fur Coats, Fur Jackets, Fur Capes. Zimmerman Scher Inc., New York, N. Y.
Filed July 22, 1952, Serial No. 632,911. Published Mar. 24, 1953. Class 39.

576,371. Antacid-Alkalizer for the Relief of Gastric Hyperacidity, Sour Stomach, and Heartburn Caused by Excess Stomach Acidity. Neely Drug Company, Inc., York, S. C.
Filed July 23, 1952, Serial No. 632,951. Published Mar. 24, 1953. Class 18.

576,372. Electrical Apparatus, Component Parts Thereof, and Accessories Therefor, Sold Separately for Analog Computers — Namely, Amplifiers, Power Suppliers, Connectors, Cabinets, and Racks. George A. Philbrick Researches Inc., Boston, Mass.
Filed July 23, 1952, Serial No. 632,955. Published Mar. 31, 1953. Class 21.

576,373. Hose Nozzles. Donald E. Wadsworth, North Miami, Fla.
Filed July 23, 1952, Serial No. 632,967. Published Mar. 10, 1953. Class 13.

576,374. Ready Mixed Concrete. Sakrete, Inc., St. Bernard, Ohio.
Filed July 26, 1952, Serial No. 633,123. Published Mar. 31, 1953. Class 12.

576,375. Neckties, Necktie and Handkerchief Combination Sets, and Handkerchiefs. Beau Brummell Ties, Inc., Cincinnati, Ohio.
Filed July 28, 1952, Serial No. 633,141. Published Mar. 24, 1953. Class 39.

576,376. Nylon Hosiery for Men and Women. The Nolde & Horst Company, Reading, Pa., and New York, N. Y.
Filed July 30, 1952, Serial No. 633,269. Published Mar. 24, 1953. Class 39.

576,377. Lubricants Containing Molybdenum-Disulfide, Particularly Greases, Oils, Powders, and Dispersions in Oils and Solvents. The Alpha Corporation, Greenwich, Conn.
Filed July 31, 1952, Serial No. 633,292. Published Mar. 24, 1953. Class 15.

576,378. Nose Drops for Temporary Relief of Minor Nasal Congestion. Erwin Pharmacals, Inc., Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,353. Published Feb. 24, 1953. Class 18.

576,379. Fire Brick, Refractory Brick, Tile, and Molded Bodies. Gladding, McBean & Co., Los Angeles, Calif.
Filed Aug. 2, 1952, Serial No. 633,418. Published Mar. 31, 1953. Class 12.

576,380. Product Used as an Antiseptic for Drinking Water and as a Laxative for Fowl. American Scientific Laboratories, Inc., Madison, Wis.
Filed Aug. 11, 1952, Serial No. 633,702. Published Mar. 3, 1953. Class 18.

576,381. Infant Sleepers. Veronica T. Daniels, Minneapolis, Minn.
Filed Aug. 11, 1952, Serial No. 633,716. Published Mar. 24, 1953. Class 39.

576,382. Women's Hats. Mercantile Stores Company, Inc., Wilmington, Del.
Filed Aug. 11, 1952, Serial No. 633,730. Published Mar. 24, 1953. Class 39.

576,383. Hats for Women and Misses. The Haverfield Company, Columbus, Ohio.
Filed Aug. 12, 1952, Serial No. 633,769. Published Mar. 24, 1953. Class 39.

576,384. Medicinal Preparation for the Purpose of Producing Muscle Relaxation During Surgical Anesthesia and Shock Therapy and in Other Conditions in Which Such an Effect Is Desired. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Aug. 16, 1952, Serial No. 634,029. Published Mar. 3, 1953. Class 18.

576,385. Dietary Supplement in the Form of Tablets, for #1 Containing Protein Hydrolyzate, Etc. Kon-Tur Products, Chicago, Ill.
Filed Aug. 19, 1952, Serial No. 634,145. Published Mar. 17, 1953. Class 18.

576,386. Stomach Tablets. Northwestern National Bank of Minneapolis, Minneapolis, Minn., trustee of the estate of Frederick H. Pfunder, deceased.
Filed Aug. 20, 1952, Serial No. 634,213. Published Mar. 17, 1953. Class 18.

576,387. Men's Trousers. Gutstein-Tuck, Inc., Boston, Mass.
Filed Aug. 21, 1952, Serial No. 634,254. Published Mar. 24, 1953. Class 39.

576,388. Textile Fabrics in the Piece of Cotton. Dan River Mills, Incorporated, Danville, Va.
Filed Aug. 22, 1952, Serial No. 634,302. Published Jan. 13, 1953. Class 42.

576,389. Gate Valves. Fabri-Valve Co. of America, Portland, Oreg.
Filed Aug. 22, 1952, Serial No. 634,320. Published Mar. 24, 1953. Class 13.

576,390. Ladies' and Girls' Head Coverings—Namely, Wrap-Arounds, Bandanas, and Hair Scarfs. Glenader Textile Corp., New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,326. Published Mar. 24, 1953. Class 39.

576,391. Creme Rinse. Richard Hudnut, New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,328. Published Feb. 24, 1953. Class 51.

576,392. Men's T-Shirts. Manchester Knitted Fashions, Inc., Manchester, N. H.
Filed Aug. 23, 1952, Serial No. 634,377. Published Mar. 24, 1953. Class 39.

576,393. Combination Storm and Screen Sash. Rex Windows, Incorporated, Columbus, Ohio.
Filed Aug. 23, 1952, Serial No. 634,384. Published Mar. 3, 1953. Class 12.

576,394. Flexible and Inflexible Abrasives. Behr-Manning Corporation, Troy, N. Y.
Filed Aug. 25, 1952, Serial No. 634,396. Published Apr. 7, 1953. Class 4.

576,395. Women's and Girls' Knitted Skirts, Suits, Dresses, Blouses, Jackets; and Coats for Women, Misses, and Children. Lass O'Scotland, Ltd., New York, N. Y.
Filed Aug. 25, 1952, Serial No. 634,414. Published Apr. 7, 1953. Class 39.

576,396. Flush Tank Balls. Surgical Rubber Co., Norristown, Pa.
Filed Aug. 25, 1952, Serial No. 634,422. Published Mar. 24, 1953. Class 13.

576,397. Brassières, Foundation Garments, Girdles, and Garter Belts. Beautee-fit Company, Los Angeles, Calif.
Filed Aug. 26, 1952, Serial No. 634,443. Published Mar. 31, 1953. Class 39.

576,398. Gloves—Namely, Gloves of Fabric, Leather, Combinations of Fabric and Leather, Etc. The Boss Manufacturing Company, Kewanee, Ill.
Filed Aug. 26, 1952, Serial No. 634,449. Published Apr. 7, 1953. Class 39.

576,399. Medicinal Preparation Used in the Treatment of Malaria. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Aug. 26, 1952, Serial No. 634,450. Published Mar. 17, 1953. Class 18.

576,400. Women's and Girls' Knitted Skirts, Suits, Dresses, Blouses, Jackets, and Coats. Lass O'Scotland, Ltd., New York, N. Y.
Filed Aug. 26, 1952, Serial No. 634,473. Published Apr. 7, 1953. Class 39.

576,401. Gaskets or Seals of Metal Tubing for Bolted Flanges and Flanged Joints in Housings, Pipe Lines, and Combustion Chambers. The D. S. D. Manufacturing Company, Hamden, Conn.
Filed Aug. 27, 1952, Serial No. 634,523. Published Apr. 7, 1953. Class 35.

576,402. Building Cement. Southwestern Portland Cement Company, Los Angeles, Calif.
Filed Aug. 28, 1952, Serial No. 634,610. Published Mar. 3, 1953. Class 12.

576,403. Electrically-Operated Sound Recording and Reproducing Machines, Etc. Dictaphone Corporation, Bridgeport, Conn.
Filed Aug. 29, 1952, Serial No. 634,634. Published Mar. 24, 1953. Class 21.

576,404. Liquid for External Use as an Aid for Relieving the Pain and Distress in Draughts and Paralysis, Etc. J. H. Miller, doing business under the name and style of Darmela Medicine Company, Chicago, Ill.
Filed Aug. 30, 1952, Serial No. 634,698. Published Mar. 3, 1953. Class 18.

576,405. Protective Adhesive Tape for Application to Finished Surfaces To Prevent Scratching or Blemishment of Same. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Aug. 30, 1952, Serial No. 634,699. Published Apr. 7, 1953. Class 5.

576,406. Traveling Bags, Handbags, and Shoulder Strap Bags. B. Altman & Co., New York, N. Y.
Filed Sept. 4, 1952, Serial No. 634,828. Published Mar. 31, 1953. Class 3.

576,407. Traveling Bags, Handbags, and Shoulder Strap Bags. B. Altman & Co., New York, N. Y.
Filed Sept. 4, 1952, Serial No. 634,829. Published Mar. 31, 1953. Class 3.

576,408. Calcium Carbonate (Ground Limestone). Calcium Carbonate Company, Chicago, Ill.
Filed Sept. 4, 1952, Serial No. 634,836. Published Mar. 31, 1953. Class 6.

576,409. Opaquing Agents Used in the Manufarture of Vitreous Enamels. The Harshaw Chemical Company, Cleveland, Ohio.
Filed Sept. 4, 1952, Serial No. 634,847. Published Apr. 7, 1953. Class 6.

576,410. Heel, Toe, and Sole Plates for Boots and Shoes. Sacks-Barlow Foundries, Inc., Newark, N. J.
Filed Sept. 4, 1952, Serial No. 634,863. Published Mar. 17, 1953. Class 13.

576,411. Lubricating Oils. Socony-Vacuum Oil Company, Incorporated, New York, N. Y.
Filed Sept. 4, 1952, Serial No. 634,868. Published Mar. 10, 1953. Class 15.

576,412. Pharmaceutical Compound Comprising Scopolamine Hydrobromide, Etc. Casimir Funk Laboratories, Inc., New York, N. Y.
Filed Sept. 5, 1952, Serial No. 634,887. Published Mar. 24, 1953. Class 18.

576,413. Ladies' Hosiery. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C.
Filed Sept. 5, 1952, Serial No. 634,889. Published Mar. 31, 1953. Class 39.

576,414. Traveling Bags. Mark Cross Company, New York, N. Y.
Filed Sept. 5, 1952, Serial No. 634,906. Published Mar. 31, 1953. Class 3.

576,415. Antihistamine. Bever Corporation, Miami Beach, Fla., now by change of name Key Corporation-Ethical Pharmaceuticals.
Filed Sept. 11, 1952, Serial No. 635,118. Published Mar. 10, 1953. Class 18.

576,416. Men's Suits; Coats; Slacks; Trousers; Topcoats; Sport Coats; Neckties; Sport, Dress, and Work Shirts; Women's Suits, Coats, Slacks, Jackets, and Skirts. A. Sagner's Son, Baltimore, Md.
Filed Sept. 5, 1952, Serial No. 634,922. Published Mar. 31, 1953. Class 39.

576,417. Pass Cases and Billfolds Combined With Pass Cases. Buxton, Incorporated, Springfield, Mass.
Filed Sept. 6, 1952, Serial No. 634,934. Published Mar. 31, 1953. Class 3.

576,418. Men's Sport Shirts. The Manhattan Shirt Company, New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,140. Published Mar. 31, 1953. Class 39.

576,419. After-Shave Lotion, Hair Tonic, and Talc. Old 97 Manufacturing Co., Tampa, Fla.
Filed Sept. 11, 1952, Serial No. 635,146. Published Mar. 3, 1953. Class 51.

576,420. Urinals. American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa.
Filed Sept. 12, 1952, Serial No. 635,167. Published Mar. 31, 1953. Class 13.

576,421. Insulating Siding. Bird & Son, Inc., East Walpole, Mass.
Filed Sept. 12, 1952, Serial No. 635,169. Published Mar. 3, 1953. Class 12.

576,422. Face Cream and Face Lotion. Goubaud of Paris, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,180. Published Mar. 10 1953. Class 51.

576,423. Perfume, Toilet Water, Face Lotion, and Cream. Goubaud of Paris, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,181. Published Mar. 10, 1953. Class 51.

576,424. Handbags for Women. Mel-Ton Bags, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,189. Published Mar. 31, 1953. Class 3.

576,425. Chemotherapeutic for Tubercular Diseases. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Priority under Sec. 44(d) Swiss Registration No. 141,634, filed Mar. 13, 1952.
Filed Sept. 13, 1952, Serial No. 635,217. Published Mar. 10, 1953. Class 18.

576,426. Antibiotic Drug. White Laboratories, Inc., Kenilworth, N. J.
Filed Sept. 13, 1952, Serial No. 635,243. Published Mar. 10, 1953. Class 18.

576,427. Ladies' and Misses' Hosiery. Troxler-Lynch Hosiery Company, Springfield, Ill.
Filed Sept. 15, 1952, Serial No. 635,280. Published Mar. 31, 1953. Class 39.

576,428. Papers Sold in Roll and Sheet Form for Use as Moisture Barriers in Building Construction. Edgewater Paper Co., Menasha, Wis.
Filed Sept. 16, 1952, Serial No. 635,293. Published Mar. 10, 1953. Class 12.

576,429. Metal Posts and Tube Joints. Rheinische Röhrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany.
Filed Sept. 16, 1952, Serial No. 635,323. Published Mar. 31, 1953. Class 13.

576,430. Chemical Preparation for Hardening Synthetic Resin Base Bonding Agents. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Sept. 17, 1952, Serial No. 635,353. Published Mar. 31, 1953. Class 6.

576,431. Synthetic Resin Base Bonding Agents Particularly Adapted for Joining Metal to Metals and to Other Materials. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Sept. 17, 1952, Serial No. 635,357. Published Apr. 7, 1953. Class 5.

576,432. Ladies', Misses', and Junior Brassières. Pliantform Foundations, Inc., New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,432. Published Mar. 31, 1953. Class 39.

576,433. Lipotropic Agent. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Sept. 18, 1952, Serial No. 635,439. Published Mar. 3, 1953. Class 18.

576,434. Yarns. Celanese Corporation of America, New York, N. Y.
Filed Sept. 19, 1952, Serial No. 635,464. Published Apr. 7, 1953. Class 43.

576,435. Dietary Supplement. General Products Corporation, Los Angeles, Calif.
Filed Sept. 19, 1952, Serial No. 635,471. Published Mar. 3, 1953. Class 18.

576,436. Medical Preparation—Namely, a Sterile Non-Pyrogenic Electrolyte Solution Useful for Fluid and Electrolyte Replacement Therapy. Cutter Laboratories, Berkeley, Calif.
Filed Sept. 20, 1952, Serial No. 635,523. Published Mar. 10, 1953. Class 18.

576,437. Medical Preparation—Namely, a Sterile Non-Pyrogenic Electrolyte Solution Useful for Fluid and Electrolyte Replacement Therapy. Cutter Laboratories, Berkeley, Calif.
Filed Sept. 20, 1952, Serial No. 635,524. Published Mar. 10, 1953. Class 18.

576,438. Women's and Children's Knit Underwear. Globe Knitting Works, Grand Rapids, Mich.
Filed Sept. 20, 1952, Serial No. 635,530. Published Mar. 31, 1953. Class 39.

576,439. Set of Colorized Tumblers of Aluminum in Bright Rainbow Hues, Etc. Kromex Corporation, Cleveland, Ohio.
Filed Sept. 20, 1952, Serial No. 635,539. Published Mar. 31, 1953. Class 13.

576,440. Laminated Metals in Sheet, Tube, and Wire Form. Metals & Controls Corporation, Attleboro, Mass.
Filed Sept. 20, 1952, Serial No. 635,541. Published Mar. 24, 1953. Class 14.

576,441. Laminated Metals in Sheet, Tube, and Wire Form. Metals & Controls Corporation, Attleboro, Mass.
Filed Sept. 20, 1952, Serial No. 635,543. Published Mar. 24, 1953. Class 14.

576,442. Hat Bodies. Pollak Industrial Corp., Stratford, Conn., and New York, N. Y.
Filed Sept. 20, 1952, Serial No. 635,550. Published Mar. 31, 1953. Class 39.

576,443. Men's Suits. Merit Clothing Company, Mayfield, Ky.
Filed Sept. 22, 1952, Serial No. 635,606. Published Mar. 31, 1953. Class 39.

576,444. Muscular Preparation for the Relief of Chest Colds, Head Colds, Muscular Pains, and Headaches Caused by Colds. Mountain Folks Remedy Company, Forsyth, Mo.
Filed Sept. 22, 1952, Serial No. 635,607. Published Mar. 10, 1953. Class 18.

576,445. Lace Curtains, Lace Table Cloths, Lace Bed Spreads, and Lace Piece Goods. North American Lace Co. Inc., Philadelphia, Pa.
Filed Sept. 22, 1952, Serial No. 635,610. Published Apr. 7, 1953. Class 42.

576,446. Leather Bands for Caps and Hats. Brisel Leather Corporation, New York, N. Y.
Filed Sept. 24, 1952, Serial No. 635,683. Published Mar. 31, 1953. Class 39.

576,447. Men's Topcoats, Overcoats, and Tuxedo Suits, the Latter Consisting of Coats, Vests, and Trousers. House of Worsted-Tex, Inc., Philadelphia, Pa.
Filed Sept. 24, 1952, Serial No. 635,697. Published Mar. 31, 1953. Class 39.

576,448. Piece Goods of Synthetic Fibers. A. M. Perlman, Inc., New York, N. Y.
Filed Sept. 24, 1952, Serial No. 635,713. Published Apr. 7, 1953. Class 42.

576,449. Fabrics of Multi-Filament Rayon and Synthetic Fibers. Beaunit Mills, Inc., New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,738. Published Apr. 7, 1953. Class 42.

576,450. Shower Cabinets. Flat Metal Manufacturing Company, Franklin Park, Ill.
Filed Sept. 25, 1952, Serial No. 635,755. Published Mar. 31, 1953. Class 13.

576,451. Shower Cabinets. Flat Metal Manufacturing Company, Franklin Park, Ill.
Filed Sept. 25, 1952, Serial No. 635,756. Published Mar. 31, 1953. Class 13.

576,452. Shower Cabinets. Flat Metal Manufacturing Company, Franklin Perk, Ill.
Filed Sept. 25, 1952, Serial No. 635,757. Published Mar. 31, 1953. Class 13.

576,453. Nylon Quilting Thread. The Heminway & Bartlett Mfg. Co., Watertown, Conn.
Filed Sept. 26, 1952, Serial No. 635,833. Published Mar. 31, 1953. Class 43.

576,454. Portable Fire Extinguishers. Merlite Industries, Inc., New York, N. Y.
Filed Sept. 26, 1952, Serial No. 635,840. Published Mar. 24, 1953. Class 23.

576,455. Lubricating Oil for Low Temperature Lubrication. The Pure Oil Company, Chicago, Ill.
Filed Sept. 27, 1952, Serial No. 635,885. Published Mar. 17, 1953. Class 15.

576,456. Insecticides. Chemagro Corporation, New York, N. Y.
Filed Sept. 29, 1952, Serial No. 635,902. Published Mar. 31, 1953. Class 6.

576,457. Various Mixtures and Combinations of Antibiotics. Heyden Chemical Corporation, New York, N. Y.
Filed Sept. 29, 1952, Serial No. 635,917. Published Mar. 17, 1953. Class 18.

576,458. Blister Copper. Andes Copper Mining Company, New York, N. Y.
Filed Sept. 30, 1952, Serial No. 635,947. Published Mar. 24, 1953. Class 14.

576,459. Metallizable Direct Dyestuffs for Textile Materials, Etc. General Dyestuff Corporation, New York, N. Y.
Filed Oct. 2, 1952, Serial No. 636,074. Published Apr. 7, 1953. Class 6.

576,460. Fishing Reels. Higbie Manufacturing Company, Rochester and Bronson, Mich.
Filed Oct. 2, 1952, Serial No. 636,078. Published Apr. 7, 1953. Class 22.

576,461. Circulating Pumps. Magnaflow Pump Corp., New York, N. Y.
Filed Oct. 3, 1952, Serial No. 636,134. Published Mar. 24, 1953. Class 23.

576,462. Washers (the Type Used With Nuts and Bolts) and More Specifically Lock Washers. The Mellowes Company, Milwaukee, Wis.
Filed Oct. 3, 1952, Serial No. 636,138. Published Apr. 7, 1953. Class 13.

576,463. High Pressure Gas Valves. Hantite Company, Denver, Colo.
Filed Oct. 4, 1952, Serial No. 636,172. Published Apr. 7, 1953. Class 13.

576,464. Antiphlogistic Dressing. Demco, Inc., Denver, Colo.
Filed Oct. 6, 1952, Serial No. 636,209. Published Mar. 24, 1953. Class 18.

576,465. Dolls' Wigs. Meyer Jacoby Corporation, New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,242. Published Apr. 7, 1953. Class 22.

576,466. Insoluble Penicillin and Heparin Salts for Injection, Having Prolonged Therapeutic Activity. Abbott Laboratories, North Chicago, Ill.
Filed Oct. 8, 1952, Serial No. 636,328. Published Mar. 10, 1953. Class 18.

576,467. Aid to Hypodermoclysis and Local Anesthesia. Schenley Laboratories, Inc., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,386. Published Mar. 24, 1953. Class 18.

576,468. Herbicides, Insecticides, and Fungicides. Swift & Company, Chicago, Ill.
Filed Oct. 8, 1952, Serial No. 636,391. Published Mar. 31, 1953. Class 6.

576,469. Toy Coin Registering Banks. General Metal Products Corp., Lakewood, N. J.
Filed Oct. 9, 1952, Serial No. 636,416. Published Apr. 7, 1953. Class 22.

576,470. Thread. The American Thread Company, New York, N. Y.
Filed Oct. 10, 1952, Serial No. 636,456. Published Apr. 7, 1953. Class 43.

576,471. Wood Preservatives, Wood Treating Chemicals, Insecticides, Fungicides, Parasiticides, Weed Killer, Chemicals for Defoliating Vegetation. Chapman Chemical Company, Memphis, Tenn.
Filed Oct. 11, 1952, Serial No. 636,512. Published Apr. 7, 1953. Class 6.

576,472. Preparation for the Relief of Asthma. The Purdue Frederick Company, New York, N. Y.
Filed Oct. 14, 1952, Serial No. 636,605. Published Dec. 23, 1952. Class 18.

576,473. Bowling Pins. Vulcan Corporation, Portsmouth, Ohio.
Filed Oct. 15, 1952, Serial No. 636,662. Published Apr. 7, 1953. Class 22.

576,474. Bowling Pins. Vulcan Corporation, Portsmouth, Ohio.
Filed Oct. 15, 1952, Serial No. 636,663. Published Apr. 7, 1953. Class 22.

576,475. Solution for Relief of Soreness of Bruises, Cold Sores, Chapped Lips, Etc. Charles D. Williams, doing business as The C. D. Williams Co., Bakersfield, Calif.
Filed Oct. 18, 1952, Serial No. 636,868. Published Mar. 10, 1953. Class 18.

576,476. Chemical Compound for Relieving the Pain of Teething Babies. Commerce Drug Co., Brooklyn, N. Y.
Filed Oct. 27, 1952, Serial No. 637,243. Published Mar. 10, 1953. Class 18.

576,477. Heat-Refractory Materials Consisting of Crystalline Alumina, Silicon Carbide, Magnesia Grain for Insulation, Lining, Packing, and Cement Materials; Refractory Bricks, Blocks, Plates, and Other Bonded Refractory Shaped Articles. Norton Company, Worcester, Mass.
Filed Nov. 4, 1952, Serial No. 637,606. Published Mar. 24, 1953. Class 12.

576,478. Liquid Anti-Histaminic Preparation Used in Relief of Coughs Due to Colds, Asthma, Allergies, and Excessive Smoking. The Thenylhist Co., Dallas, Tex.
Filed Nov. 4, 1952, Serial No. 637,623. Published Mar. 10, 1953. Class 18.

576,479. Chloral Hydrate Plus Natural Belladonna Alkaloids in Soft Gelatin Capsules. Fellows Medical Manufacturing Company, Inc., New York, N. Y.
Filed Nov. 15, 1952, Serial No. 638,137. Published Mar. 17, 1953. Class 18.

576,480. Milk Candy. Fujii Junichi Shoten, Limited, Honolulu, Territory of Hawaii.
Filed Nov. 24, 1952, Serial No. 638,529. Published Mar. 31, 1953. Class 46.

576,481. Veterinary Drugs—Namely, Hog Cholera Vaccine. Norden Laboratories, Lincoln, Nebr.
Filed Dec. 5, 1952, Serial No. 639,071. Published Mar. 3, 1953. Class 18.

576,482. Flexible Metallic Tubing. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa.
Filed Dec. 19, 1952, Serial No. 639,772. Published Apr. 7, 1953. Class 35.

576,483. Photographic Chemicals—Namely, Photographic Developer, and Starting Solution. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Dec. 20, 1952, Serial No. 639,813. Published Apr. 7, 1953. Class 6.

576,484. Braided Strip Packing Particularly Adapted for Cold Liquid Service. Johns-Manville Corporation, New York, N. Y.
Filed Dec. 29, 1952, Serial No. 640,123. Published Mar. 31, 1953. Class 35.

576,485. Plastic (Polystyrene Chemical Composition). International Minerals & Chemical Corporation, Chicago, Ill.
Filed Dec. 30, 1952, Serial No. 640,159. Published Mar. 31, 1953. Class 6.

Certification Marks

576,486. Deciduous Fruits—Namely, Cherries, Apricots, Peaches, Plums, Prunes, and Bartlett Pears, Both as Fresh Fruit and as Canned Fruit. Washington State Fruit Commission, Yakima, Wash.
Filed May 13, 1950, Serial No. 597,424. Published Mar. 31, 1953. Class 46.

576,487. Prefinished Wall Panels. Prefinished Wallpanel Council, Cleveland, Ohio.
Filed June 25, 1952, Serial No. 632,651. Published Mar. 24, 1953. Class 12.

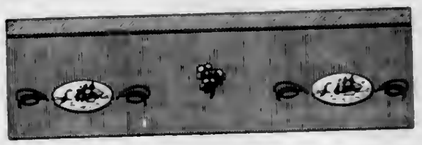
Collective Mark

576,488. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed May 19, 1952, Serial No. 631,958. Published Mar. 17, 1953. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

576,489. (Class 46. Foods and Ingredients of Foods.) J. A. Folger & Co., Kansas City, Mo. Original filed, act of 1905, Oct. 28, 1946; amended to application under act of 1946, Principal Register, Feb. 16, 1948; amended to Supplemental Register, Dec. 26, 1951, Serial No. 511,604.



The drawing is lined to indicate the colors red, yellow, and maroon. Applicant claims ownership of Registrations Nos. 68,138, 74,819, and 152,775.
For Coffee.
Claims use since Oct. 15, 1946.

576,490. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Sekely Industrial Tool & Mfg. Inc., Salem, Ohio. Original filed, act of 1946, Principal Register, Apr. 21, 1948; amended to application, Supplemental Register, Jan. 8, 1952, Serial No. 555,202.

KLIP-KLEEN

For Grass Shears.
Claims use since Mar. 26, 1948.

576,491. (Class 22. Games, Toys, and Sporting Goods.) Aldens, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 31, 1948; amended to application, Supplemental Register, Mar. 18, 1953, Serial No. 564,422.

←Hunter→

For Children's or Sidewalk Bicycles, and Children's Scooters, Sleds and Wagons.
Claims use since June 1, 1948.

576,492. (Class 44. Dental, Medical, and Surgical Appliances.) Maurice Kline, doing business as General Scientific Equipment Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Oct. 7, 1948; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 566,619.

EYE SWEEP

For Instruments Having Magnetic Points for Magnetically Removing Metal Particles and Loops for Wiping Foreign Objects From the Eye.
Claims use since May 1947.

576,493. (Class 38. Prints and Publications.) Fishing Gazette Publishing Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 12, 1948; amended to application, Supplemental Register, Apr. 25, 1952, Serial No. 568,603.

FISHING GAZETTE ANNUAL REVIEW NUMBER

Applicant claims ownership of Registration No. 558,935.
For Magazine of the Commercial Fisheries Sold to the Advertising Fraternity.
Claims use since 1924.

576,494. (Class 27. Horological Instruments.) Emil Leichter, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 20, 1948; amended to application, Supplemental Register, July 23, 1951, Serial No. 570,857.

HYDE-OMATIC

Applicant claims ownership of Registrations Nos. 408,220 and 514,937.
For Watches.
Claims use since Oct. 15, 1948.

576,495. (Class 27. Horological Instruments.) Emil Leichter, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 20, 1948; amended to application, Supplemental Register, July 23, 1951, Serial No. 570,858.

HYDE-OGRAPH

Applicant claims ownership of Registrations Nos. 408,220 and 514,937.
For Watches.
Claims use since Oct. 15, 1948.

576,496. (Class 37. Paper and Stationery.) Hudson Pulp and Paper Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, July 7, 1949; amended to application, Supplemental Register, Sept. 11, 1952, Serial No. 581,593.

Hudson RAINBOW COLORS

Applicant claims ownership of Registration No. 518,686.
For Paper Napkins, Paper Towels, and Facial Tissues.
Claims use since June 1, 1949.

576,497. (Class 49. Distilled Alcoholic Liquors.) Pepper-Morson Company, New York, N. Y., and Jersey City, N. J. Original filed, act of 1946, Principal Register, Mar. 11, 1950; amended to application, Supplemental Register, Mar. 20, 1951, Serial No. 593,827.

E. Martin

The trade-mark is fanciful. Applicant claims ownership of Registration No. 334,243.
For Brandy.
Claims use since Sept. 28, 1934.

576,498. (Class 28. Jewelry and Precious-Metal Ware.) Sierra Gems Incorporated, Sierra Madre, Calif. Original filed, act of 1946, Principal Register, Mar. 11, 1950; amended to application, Supplemental Register, May 5, 1952, Serial No. 593,835.

Sapphirized Titania

The word "Titania" is disclaimed apart from the mark.
For Gem Materials to Which a Decorative Coating Has Been Applied.
Claims use since Mar. 10, 1949.

576,499. (Class 15. Oils and Greases.) E. F. Houghton & Co., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Mar. 21, 1950; amended to application, Supplemental Register, Mar. 10, 1953, Serial No. 594,323.

TURBO-DRIVE

For Turbine Lubricants.
Claims use since Dec. 28, 1948.

576,500. (Class 19. Vehicles.) Elsman, Ewen and Rose, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 18, 1950; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 597,673.

Save-a-Seat

For Automobile Seat Covers Made of Plastic Sheeting.
Claims use since Feb. 6, 1950.

576,501. (Class 46. Foods and Ingredients of Foods.) S. B. Morse, doing business as Mrs. Chapman's Home Foods, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, Mar. 8, 1952, Serial No. 603,806.

"WOODY'S"

For Flavoring and Condiment Sauces Not Including Cheese—Namely, Barbecue Sauce and Cooking Sauce.
Claims use since July 13, 1946.

576,502. (Class 51. Cosmetics and Toilet Preparations.) Spray-Dent Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 22, 1950; amended to application, Supplemental Register, Sept. 23, 1952, Serial No. 606,814.

SPRAY-DENT

For Denture Adhesive Having Deodorizing Properties.
Claims use since Oct. 20, 1950.

576,503. (Class 6. Chemicals and Chemical Compositions.) Stanogas, Inc., Kokomo, Ind. Original filed, act of 1946, Principal Register, Jan. 22, 1951; amended to application, Supplemental Register, Sept. 11, 1952, Serial No. 609,107.

Ready Flame

The letters "LP" and the word "Gas" are disclaimed.
For Liquid Petroleum and Bottled Gas.
Claims use since Nov. 9, 1950.

576,504. (Class 45. Soft Drinks and Carbonated Waters.) Joseph D. Brooks, doing business as Seven-Up Bottling Company, Marysville, Calif. Original filed, act of 1946, Principal Register, Mar. 22, 1951; amended to application, Supplemental Register, Nov. 26, 1952, Serial No. 611,637.

Dee's

For Maltless Soft Drinks and Carbonated Waters (e. g., Root Beer, Strawberry Soda, Orange Soda).
Claims use since Sept. 5, 1947.

576,505. (Class 27. Horological Instruments.) Sheffield Merchandise, Inc., New York, N. Y. Original filed, act of 1940, Principal Register, Apr. 11, 1951; amended to application, Supplemental Register, May 8, 1952, Serial No. 612,514.

FEDOR

For Watches.
Claims use since Aug. 4, 1949.

576,506. (Class 32. Furniture and Upholstery.) American Manufacturing Concern, Falconer, N. Y. Original filed, act of 1946, Principal Register, May 12, 1951; amended to application, Supplemental Register, Apr. 3, 1952, Serial No. 613,796.

American Falconer

For Bedroom Furniture—Namely, Beds, Chests, Dressers, Double Dressers, Chests on Chests, Vanities, Mirrors, Powder Tables, Night Stands, and Benches.
Claims use since Mar. 31, 1951.

576,507. (Class 18. Medicines and Pharmaceutical Preparations.) Robert W. Stabler, Beverly Hills, Calif. Original filed, act of 1946, Principal Register, May 17, 1951; amended to application, Supplemental Register, Apr. 24, 1952, Serial No. 614,017.

VITA-BITE

For Chocolate and/or Lemon or Fruit Flavored Vitamin Wafers, With Calcium and Phosphorus Added.
Claims use since Mar. 7, 1951.

576,508. (Class 39. Clothing.) Rosedale Knitting Company, Reading, Pa. Original filed, act of 1946, Principal Register, June 12, 1951; amended to application, Supplemental Register, Feb. 5, 1953, Serial No. 615,083.

DELUSTRE FINISH

For Ladies' Hosiery.
Claims use since May 4, 1951.

576,509. (Class 52. Detergents and Soaps.) Anchor Chemical Corporation, Hollywood, Calif. Original filed, act of 1946, Principal Register, July 26, 1951; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 616,936.

Nu-Look

For Upholstery and Rug Cleaners.
Claims use since May 16, 1951.

576,510. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Albert J. Puschin, Centerdale, R. I. Original filed, act of 1946, Principal Register, Sept. 17, 1951; amended to application, Supplemental Register, Apr. 22, 1953, Serial No. 618,899.

Hutchison House

For Linen Towels, Linen Piece Goods, Dish Towels, Table Settings of Napkins, Table Cloths, Dress Fabrics of Cotton, Wool, Silk, and Synthetic Fibers, and Toweling.
Claims use since Sept. 4, 1951.

576,511. (Class 37. Paper and Stationery.) The Wolf Detroit Envelope Company, Detroit, Mich. Filed Sept. 26, 1951, Serial No. 619,275.

"PRESS-SURE-SEAL"

Applicant claims ownership of Registration No. 548,047.
For Correspondence Envelopes.
Claims use since Sept. 11, 1945.

576,512. (Class 12. Construction Materials.) Fisk & Mason, Inc., South Pasadena, Calif. Original filed, act of 1946, Principal Register, Oct. 22, 1951; amended to application, Supplemental Register, Sept. 15, 1952, Serial No. 620,309.

LONG LYFE

Applicant claims ownership of Registration No. 196,951.
For Shakes, Wooden Shingles, and Prefabricated Wood Shingle Units for Finishing the Hips and Ridges of Roofs.
Claims use since Feb. 5, 1924.

576,513. (Class 51. Cosmetics and Toilet Preparations.) Page Limited, Inc., doing business as Page, Ltd., Miami Beach, Fla. Original filed, act of 1946, Principal Register, Nov. 27, 1951; amended to application, Supplemental Register, Feb. 4, 1953, Serial No. 621,724.

hairtone

For Hair Coloring Pomade.
Claims use since Sept. 5, 1951.

576,514. (Class 8. Smokers' Articles, Not Including Tobacco Products.) Peter J. Schweitzer, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 28, 1951; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 621,789.

SEC

For Cigarette Paper Booklets.
Claims use since Nov. 12, 1951.

576,515. (Class 37. Paper and Stationery.) The Cromwell Paper Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 30, 1951; amended to application, Supplemental Register, Nov. 3, 1952, Serial No. 621,868.

FIBERKRAFT

For Laminated Papers for Wrapping and Packaging Purposes.
Claims use since Nov. 1, 1951.

576,516. (Class 22. Games, Toys, and Sporting Goods.) Chas. Garcia & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 13, 1951; amended to application, Supplemental Register, Apr. 27, 1953, Serial No. 622,433.

Garcia

For Fishing Lines.
Claims use since February 1951.

576,517. (Class 39. Clothing.) Lancaster Shoe Company, Elizabethtown, Pa. Filed Dec. 28, 1951, Serial No. 622,943.

Lancaster FINE SHOES

For Women's and Children's Shoes of Leather, Rubber, and Fabric, and Combinations Thereof.
Claims use since June 15, 1951.

576,518. (Class 47. Wines.) Wine Growers Guild, Lodi, Calif. Original filed, act of 1946, Principal Register, Jan. 18, 1952; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 623,789.

BARBECUE

For Wines.
Claims use since Dec. 11, 1951.

576,519. (Class 37. Paper and Stationery.) Markwell Manufacturing Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 19, 1952; amended to application, Supplemental Register, Jan. 28, 1953, Serial No. 623,802.

MARKWELL DRIPAINT the BRUSHLESS paint

Applicant claims ownership of Registration No. 510,921.
For Crayons Used for Marking on Metals, Paper, Wood, Textiles, Glass, Rubber, Chinaware, and Plastics.
Claims use since Dec. 21, 1951.

576,520. WITHDRAWN.

576,521. (Class 12. Construction Materials.) John Bonforte, doing business as Bonforte Construction Company, Colorado Springs, Colo. Original filed, act of 1946, Principal Register, Feb. 14, 1952; amended to application, Supplemental Register, Jan. 30, 1953, Serial No. 624,925.

VENT ROLL

For Ventilated Roof Ridge Roll.
Claims use since Nov. 1, 1951.

576,522. (Class 12. Construction Materials.) George G. Booth, doing business as Booth Welding Shop, Berwick, Pa. Original filed, act of 1946, Principal Register, Feb. 21, 1952; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 625,329.

TELE-EX-PAND

For Television Towers and Accessories Sold as a Complete Unit.
Claims use since Feb. 5, 1951.

576,523. (Class 16. Protective and Decorative Coatings.) Max O. Meeker, doing business as Meeker's Auto Supply Co., Casey, Ill. Original filed, act of 1946, Principal Register, Mar. 17, 1952; amended to application, Supplemental Register, May 6, 1953, Serial No. 626,583.

Meeker

For Paints.
Claims use since May 14, 1950.

576,524. (Class 12. Construction Materials.) The Flintkote Company, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 19, 1952; amended to application, Supplemental Register, Mar. 11, 1953, Serial No. 626,666.

TRIPLTAB

For Roofing Shingles.
Claims use since Jan. 10, 1940.

576,525. (Class 12. Construction Materials. Friendly Frost Sales Corp., Ozone Park, N. Y. Original filed, act of 1946, Principal Register, Mar. 22, 1952; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 626,871.

FROST-TITE

For Storm Windows.
Claims use since Jan. 31, 1952.

576,526. (Class 21. Electrical Apparatus, Machines and Supplies.) Vitalic Battery Company, Inc., Dallas, Tex. Filed Apr. 2, 1952, Serial No. 627,478.

Tempered PLATE

For Storage Batteries.
Claims use since July 1933.

576,527. (Class 38. Prints and Publications.) For-Dom Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 4, 1952; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 627,370.

MOTOR Cattle

For Automotive Publications Published From Time to Time.
Claims use since Mar. 28, 1952.

576,528. (Class 44. Dental, Medical, and Surgical Appliances.) Roy M. Keller, Sedalia, Mo. Original filed, act of 1946, Principal Register, Apr. 11, 1952; amended to application, Supplemental Register, Apr. 15, 1953, Serial No. 627,952.

Dr. Keller's ELECTRON Dispersion SHOE

For Electro-Therapeutic Shoes Made of Leather, Rubber, Fabric and/or Combinations Thereof, and Used in Conducting Electricity Away From the Body of the Wearer.
Claims use since Mar. 7, 1952.

576,529. (Class 21. Electrical Apparatus, Machines and Supplies.) Elston L. Ireland, Portland, Oreg. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 628,108.

FLAVORAY

For Pie Baking Machines and Turn Spits Employing Infra-Red Rays.
Claims use since Dec. 5, 1951.

576,530. (Class 46. Foods and Ingredients of Foods.) R. O. Moench & Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 17, 1952; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 628,220.

SILK-EE

For Ice Milk Base.
Claims use since Dec. 1, 1951.

576,531. (Class 17. Tobacco Products.) J. C. Winter & Co. Inc., Red Lion, Pa. Original filed, act of 1946, Principal Register, Apr. 17, 1952; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 628,244.

Pennsylvania Dutch

For Cigars.
Claims use since Jan. 12, 1951.

576,532. (Class 18. Medicines and Pharmaceutical Preparations.) Cramer Chemical Co., Gardner, Kans. Original filed, act of 1946, Principal Register, Apr. 24, 1952; amended to application, Supplemental Register, Mar. 25, 1953, Serial No. 628,612.

DEXTROTABS

For Dextrose Tablets Containing Vitamin B^1 and for Use in Bolstering Energy Reserves and To Minimize Fatigue Effects if Taken Internally.
Claims use since Mar. 13, 1952.

576,533. (Class 37. Paper and Stationery.) The Smead Manufacturing Company, Hastings, Minn. Original filed, act of 1946, Principal Register, Apr. 30, 1952; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 628,965.

GLYD-LOC

For Household Records Folders, Expanding Files and Pocket Wallets.
Claims use since Sept. 6, 1951.

576,534. (Class 12. Construction Materials.) The Flintkote Company, New York, N. Y. Original filed, act of 1946, Principal Register, May 1, 1952; amended to application, Supplemental Register, Mar. 18, 1953, Serial No. 629,007.

FLOORSET

For Quick-Setting Cementitious Material for Flooring.
Claims use since February 1940.

576,535. (Class 39. Clothing.) Federated Department Stores, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 10, 1952; amended to application, Supplemental Register, Feb. 20, 1953, Serial No. 629,481.

"Super-60"

For Women's Hosiery.
Claims use since Feb. 2, 1952.

576,536. (Class 45. Soft Drinks and Carbonated Waters.) Coca-Cola Bottling Co. of Worcester, Worcester, Mass. Filed May 20, 1952, Serial No. 629,933.

Kibbey's

For Maltless Soft Drinks and Carbonated Waters.
Claims use since Mar. 5, 1951.

576,537. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Hampton Mills, Inc., Easthampton, Mass. Filed June 26, 1952, Serial No. 631,801.

HAMPTON

Applicant claims ownership of Registration No. 153,941.
For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Dec. 9, 1920.

576,538. (Class 39. Clothing.) Cory Casual Sportswear Corp., New York, N. Y. Original filed, act of 1946, Principal Register, July 23, 1952; amended to application, Supplemental Register, Apr. 7, 1953, Serial No. 632,922.

Cory Casuals

For Certain Garments for Men, Women, and Children—Namely, Sport Shirts, Polo Shirts, Jackets, Slacks, Play Shorts, Swimming Shorts, and Swimming Suits.
Claims use since Nov. 22, 1951.

576,539. (Class 15. Oils and Greases.) William D. Dubuque, trading and doing business as Lebanon Chemical Company, Lebanon, N. H. Original filed, act of 1946, Principal Register, July 25, 1952; amended to application, Supplemental Register, Jan. 30, 1953, Serial No. 633,042.

WILL-KLEEN

For Liquid Solvent Used in Fuel Oil Treatment.
Claims use since Jan. 17, 1952.

576,540. (Class 51. Cosmetics and Toilet Preparations.) S. Bonat & Bro., Inc., Paterson, N. J. Original filed, act of 1946, Principal Register, Aug. 12, 1952; amended to application, Supplemental Register, Feb. 13, 1953, Serial No. 633,751.

Curl Aids

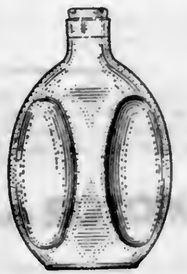
For Chemical Preparation in Capsule Form To Be Added to Permanent Waving Solution, To Aid in Curling the Hair.
Claims use since Aug. 16, 1951.

576,541. (Class 6. Chemicals and Chemical Compositions.) Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Original filed, act of 1946, Principal Register, July 12, 1952: amended to application, Supplemental Register, Jan. 13, 1953, Serial No. 633,819.

WACKER-BEAGID PRESSKARBID

Applicant claims ownership of German Registration No. 518,485, dated Jan. 6, 1940.
For Formed Calcium Carbide.

576,542. (Class 49. Distilled Alcoholic Liquors.) Haig & Haig Limited, Markinch, Scotland. Filed Aug. 21, 1952, Serial No. 634,255.



For Whisky.
Claims use since January 1901.

576,543. (Class 5. Adhesives.) Jack M. Nevel, doing business as The Nevel Company, Detroit, Mich. Filed Sept. 4, 1952, Serial No. 634,855.

DETROIT ABRASIVE CEMENT

For Polishing Wheel Abrasive Cement.
Claims use since on or about Dec. 3, 1947.

576,544. (Class 27. Horological Instruments.) Harry Shragie, doing business under the name of Statler Watch Company, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 29, 1952; amended to application, Supplemental Register, Apr. 21, 1953, Serial No. 635,933.

STATLER

For Watches.
Claims use since on or about Mar. 1, 1952.

576,545. (Class 21. Electrical Apparatus, Machines, and Supplies.) Multi-Clean Products, Incorporated, St. Paul, Minn. Original filed, act of 1946, Principal Register, Oct. 24, 1952; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 637,417.

Lite-12

For Electric Floor Polishing Machines.
Claims use since Aug. 8, 1950.

576,546. (Class 38. Prints and Publications.) Jerome Levy, doing business as New Economic Library, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 1, 1952; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 637,484.

INDUSTRY FORECAST

For Monthly Newsletter.
Claims use since July 28, 1949.

576,547. (Class 45. Soft Drinks and Carbonated Waters.) Church Grape Juice Company, Kennewick, Wash. Filed Nov. 28, 1952, Serial No. 638,694.

CHURCH'S
Naturally Sweet

Applicant claims ownership of Registrations Nos. 429,734, 437,065, and 519,210.
For Grape Juice.
Claims use since February 1940.

576,548. (Class 27. Horological Instruments.) R. Gsell & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 29, 1952; amended to application, Supplemental Register, Mar. 9, 1953, Serial No. 638,765.

NEWPORT

For Watches and Clocks.
Claims use since July 1, 1936.

576,549. (Class 38. Prints and Publications.) National Advertising Company, Springfield, Mass. Original filed, act of 1946, Principal Register, Dec. 3, 1952; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 638,912.

$AVE-WAY STAMPS

For Savings Stamp.
Claims use since on or about Jan. 10, 1952.

576,550. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 5, 1952, Serial No. 639,016.



The mark consists of the fanciful three dimensional representation in gold of two bees upon a globe segment in combination with the distinctive overall configuration of the bottle and stopper (which contain the goods) as a whole and shown in the accompanying drawing which is lined for gold.
For Perfume.
Claims use since Aug. 9, 1949.

576,551. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Filed Dec. 5, 1952, Serial No. 639,017.



Applicant disclaims the representation of the four flowers apart from the mark as shown. The drawing is lined for the color gold.
For Perfume.
Claims use since Aug. 9, 1949.

576,552. (Class 28. Jewelry and Precious-Metal Ware.) Jacoby-Bender, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 17, 1952; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 639,642.

DE SOTO

For Watch Bracelets Sold Separately From the Watches.
Claims use since Jan. 7, 1952.

576,553. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Shirley Fabrics Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 12, 1953; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 640,649.

TWEEDEE

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Aug. 6, 1951.

Service Marks

576,554. (Class 105. Transportation and Storage.) Lyon Van & Storage Co., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 22, 1947; amended to application, Supplemental Register, July 5, 1949, Serial No. 535,248.

"LET LYON GUARD YOUR GOODS"

For Transporting by Truck Household Goods and General Commodities; Storing and Warehousing Household Goods and General Commodities; for Brokerage Service in Arranging Transportation of Household Goods and General Commodities.
Claims use since August 1911.

576,555. (Class 103. Construction and Repair.) Adirondack Construction Corporation, Glens Falls, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1950; amended to application, Supplemental Register, Oct. 1, 1951, Serial No. 606,250.



The drawing is not lined for color.
For General Construction, Maintenance, and Repair of Private Homes, Apartment Buildings, and Industrial Plants and Buildings.
Claims use since Aug. 1, 1950.

576,556. (Class 103. Construction and Repair.) Jesse de Arruda, doing business as Artistic Landscape Service, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 5, 1951; amended to application, Supplemental Register, Dec. 26, 1952, Serial No. 619,607.

"EVERYTHING IN OUTDOOR BEAUTY"
Artistic Landscape Service

For Landscape and Garden Maintenance.
Claims use since July 25, 1950.

576,557. (Class 103. Construction and Repair.) Chelsea Process, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 19, 1952; amended to application, Supplemental Register, Feb. 10, 1953, Serial No. 634,162.

CHELSEA

For Cleaning Furs.
Claims use since Apr. 2, 1951.

TRADE-MARK REGISTRATIONS RENEWED

40,345. REPRESENTATION OF STATUE OF MINUTE MAN. Registered May 12, 1903. Whitman Grocery Company, Orange, Mass. Re-renewed May 12, 1953, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Prepared Gelatin. Class 46.

90,641. SEC. Registered Mar. 11, 1913. Richard Hudnut, New York, N. Y., a corporation of New York. Re-renewed Mar. 11, 1953. Toilet Water. Class 51.

90,665. DAINTY. Registered Mar. 11, 1913. Valier & Spies Milling Co., St. Louis, Mo. Re-renewed Mar. 11, 1953, to Flour Mills of America, Inc., Kansas City, Mo., a corporation of Delaware. Wheat-Flour. Class 46.

90,861. VAPOROLE. Registered Mar. 25, 1913. Henry S. Wellcome, London, England. Re-renewed Mar. 25, 1953, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York. Medicinal Substances in Hermetically-Sealed Containers for Hypodermic and Intramuscular Injections and for Inhalation. Class 18.

91,053. ELIXOID. Registered Apr. 8, 1913. Henry S. Wellcome, London, England. Re-renewed Apr. 8, 1953, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York. Ammonium Valerianate, Formates Compound, Glycero Phosphates, Mucin, and a Pine-Tar Compound. Class 18.

91,280. KEPLER. Registered Apr. 22, 1913. Henry S. Wellcome, London, England. Re-renewed Apr. 22, 1953, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York. Malt Extract With Beef and Iron, With Cascara Segrada, With Chemical Food, With Hemoglobin, Etc. Class 18.

92,256. ECONO. Registered June 24, 1913. Northwestern Expanded Metal Co. Re-renewed June 24, 1953, to United States Gypsum Company, Chicago, Ill., a corporation of Illinois. Expanded-Metal Lath. Class 12.

92,288. LADY GRACE. Registered June 24, 1913. E. M. Townsend & Co. Re-renewed June 24, 1953, to Jack Cohen, New York, N. Y. Hosiery and Knitted Underwear—Namely, Knitted Vests, Shirts, Drawers, Union Suits, and Infants' Wrappers. Class 39.

92,492. "KEPLER"-AND DESIGN. Registered July 8, 1913. Henry S. Wellcome, London, England. Re-renewed July 8, 1953, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York. Malt Extract. Class 48.

92,779. FORKOLA. Registered July 29, 1913. The Bacorn Company, Elmira, N. Y., a corporation of New York. Re-renewed July 29, 1953. A Remedy for Colds, Catarrh, Tonsilitis, Etc. Class 18.

92,807. REPRESENTATION OF HEAD OF LION WITHIN CIRCLE DESIGN. Registered July 29, 1913. Live Stock Remedy Company, St. Louis, Mo., a corporation of Missouri. Re-renewed July 29, 1953. Remedy for the Expurgation of Worms From Hogs, Sheep, Horses, and Cattle and for Roup, Gapes, and Cholera of Poultry. Class 18.

92,881. "ENDURA" ETC. AND DESIGN. Registered Aug. 5, 1913. Endura Manufacturing Co., Philadelphia, Pa. Re-renewed Aug. 5, 1953, to Endura Manufacturing Corporation, Quakertown, Pa., a corporation of Pennsylvania. Packing Made From Chemically-Prepared Paper. Class 35.

93,026. "AIRLINE" AND DESIGN. Registered Aug. 12, 1913. The A. I. Root Company, Medina, Ohio. Re-renewed Aug. 12, 1953, to Airline Foods Corporation, Linden, N. J., a corporation of Delaware. Honey in the Comb, Extracted Honey, and Granulated Honey. Class 46.

93,126. REPRESENTATION OF WORD "SINGER" IN RUSSIAN LETTERS. Registered Aug. 19, 1913. The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Re-renewed Aug. 19, 1953. Family and Manufacturing Sewing-Machines, Parts Thereof, Etc. Class 23.

297,832. REPRESENTATION OF CROSS AND DESIGN. Registered Oct. 4, 1932. Philadelphia Magnesia Co., Philadelphia, Pa., a firm. Renewed Oct. 4, 1952. Citrate of Magnesia. Class 18.

299,580. GOLD THIMBLE. Registered Dec. 13, 1932. Bloch Bros. Renewed Dec. 13, 1952, to Bloch Bros. (Distillers) Limited, Glasgow, Scotland, a company incorporated under the laws of the United Kingdom of Great Britain and Northern Ireland. Whiskey. Class 49.

299,959. HADENZER CHEESE. Registered Jan. 3, 1933. Schwendermans. Renewed Jan. 3, 1953, to Rose K. Trainor, doing business as Schwendermans, Algoma, Wis. Cheese. Class 46.

300,045. FAME. Registered Jan. 3, 1933. Stokely Brothers & Company, doing business as Fame Canning Company, Louisville, Ky. Renewed Jan. 3, 1953, to Stokely-Van Camp, Inc., Indianapolis, Ind., a corporation of Indiana. Canned Vegetables, Tomato Puree, Sauerkraut, Etc. Class 46.

300,128. $1000.00 GUARANTEED. Registered Jan. 3, 1933. B. Heller & Company, Chicago, Ill., a corporation of Illinois. Renewed Jan. 3, 1953 (Supplemental Register). Insecticides and Preparations for the Extermination of Vermin Such as Roach Killer, Rat and Mouse Killer, Etc. Class 6.

300,535. "O-DO" AND DESIGN. Registered Jan. 24, 1933. Clyde S. Smith, Dallas, Tex. Renewed Jan. 24, 1953. Preparation for Use as a Deodorant and Perspiration Corrective. Class 51.

301,347. BREEZKOTE. Registered Feb. 28, 1933. The Crown Overall Mfg. Co., Cincinnati, Ohio, a corporation of Ohio. Renewed Feb. 28, 1953. Men's Coats, Vest Coats, Sleeveless Vest Coats, Sport Coats, and Norfolk Coats. Class 39.

301,660. "TOWER BRAND" AND DESIGN. Registered Mar. 7, 1933. Chas. L. Huisking & Co., Inc., New York, N. Y. Renewed Mar. 7, 1953, to Chas. L. Huisking & Co., Inc., Brooklyn, N. Y., a corporation of New York. Milk Sugar U. S. P., Lanoline Anhydrous U. S. P., Coal Tar Disinfectant, Extract Witch Hazel, Etc. Class 18.

301,700. SACHETOIR. Registered Mar. 14, 1933. Guy T. Gibson, Inc. Renewed Mar. 14, 1953, to Parfums Ciro, Inc., New York, N. Y., a corporation of New York. Perfumes and Sachets. Class 51.

301,803. IN YOUR NEIGHBORHOOD. Registered Mar. 14, 1933. Memphis Press-Scimitar Company. Renewed Mar. 14, 1953, to Memphis Publishing Company, Memphis, Tenn., a corporation of Delaware. Section or Column Appearing in a Newspaper or Periodical. Class 38.

301,890. "WEDGE SHOE" ETC. AND DESIGN. Registered Mar. 21, 1933. Perth Shoe Company Limited, Perth, Ontario, Canada. Renewed Mar. 21, 1953, to Lockwedge International Incorporated, Columbus, Ohio, a corporation of Ohio. Boots, Shoes, Slippers, and Sandals Made of Leather, Fabric, or Combinations Thereof. Class 39.

302,022. DIAL. Registered Mar. 21, 1933. Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware. Renewed Mar. 21, 1953. Cigars, Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff. Class 17.

302,324. CRYSTELLE. Registered Apr. 11, 1933. Sidney Blumenthal & Co., Inc., New York, N. Y., a corporation of New York. Renewed Apr. 11, 1953. Pile Fabrics in the Piece. Class 42.

302,640. SNOW-MAN. Registered Apr. 25, 1933. Eskimo Pie Corporation, doing business as New York Eskimo Pie Corporation, New York and Brooklyn, N. Y. Renewed Apr. 25, 1953, to Mutual Trading Corporation, Bloomfield, N. J., a corporation of Delaware. Frozen Confections. Class 46.

302,737. "CHARLES HEIDSIECK" ETC. AND DESIGN. Registered Apr. 25, 1933. Charles Heidsieck Reims Société à Responsabilité Limitée, Reims, France. Renewed Apr. 25, 1953, to Austin, Nichols & Co. Incorporated, Brooklyn, N. Y., a corporation of Virginia. Champagne Wine. Class 47.

302,838. PERFRITE. Registered May 2, 1933. Acme Backing Corporation, Brooklyn, N. Y., a corporation of New York. Renewed May 2, 1953. Processed Fabric, Backing Material Used in the Manufacture of Laminated Fabrics. Class 42.

303,172. "SAPOLIO" ETC. AND REPRESENTATION OF LABEL LINED FOR BLUE, SILVER AND GOLD. Registered May 16, 1933. Enoch Morgan's Sons Company. Renewed May 16, 1953, to Sapolio Products, Inc., New York, N. Y., a corporation of New York. Cleansing, Scouring, and Polishing Compound. Class 4.

303,259. BRISTOL. Registered May 16, 1933. The Horton Manufacturing Company, Bristol, Conn. Renewed May 16, 1953, to Union Hardware Company, Torrington, Conn., a corporation of Connecticut. Fishing Lines, Steel Shafts for Golf Clubs, Fishing Reels, and Golf Clubs. Class 22.

303,763. A'LURE. Registered June 6, 1933. The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut. Renewed June 6, 1953. Brassières. Class 39.

303,954. "TETLEY" AND DESIGN. Registered June 13, 1933. Joseph Tetley & Co., Inc. Renewed June 13, 1953, to Tetley Tea Co., Inc., New York, N. Y., a corporation of New York. Tea. Class 46.

304,054. WORCESTER IODIZED. Registered June 20, 1933. Worcester Salt Co., New York, N. Y. Renewed June 20, 1953, to Morton Salt Company, Chicago, Ill., a corporation of Illinois. Tooth Paste, Tooth Powder, Mouth Wash. Class 51.

304,183. KLEERFECT. Registered June 27, 1933. Kimberly-Clark Corporation, Neenah, Wis., a corporation of Delaware. Renewed June 27, 1953. Book Paper. Class 37.

304,213. SILVER-TEX. Registered June 27, 1933. The Killian Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed June 27, 1953. Prophylactic Rubber Articles for the Prevention of Contagious Diseases. Class 44.

304,224. LUCKY FORTUNE TELLER. Registered June 27, 1933. Morton G. Neumann, doing business as Valmor Products Co. Renewed June 27, 1953, to Valmor Products Co., Chicago, Ill., a corporation of Illinois. Incense. Class 6.

304,947. SAKSPUN. Registered July 25, 1933. Saks & Company, New York, N. Y., a corporation of New York. Renewed July 25, 1953. Men's, Women's, Girls' and Boys' Dress and Lingerie Shirts, Pajamas, Drawers and Undershirts, Etc. Class 39.

304,971. "OLD ORIGINAL" AND DESIGN. Registered July 25, 1933. Scotia Distillers Limited, Glasgow, Scotland. Renewed July 25, 1953, to Scotia Distillers Limited, Dumbarton, Scotland, a corporation organized under the laws of Great Britain. Whisky. Class 49.

305,087. "SYN FLEX" AND DESIGN LINED FOR RED. Registered Aug. 1, 1933. Andrew Brown Company. Renewed Aug. 1, 1953, to Andrew Brown Company, Los Angeles, Calif., a partnership. Paint Enamels, Varnishes, Lacquers. Class 16.

305,267. AIRWAYS. Registered Aug. 8, 1933. Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware. Renewed Aug. 8, 1953. Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff. Class 17.

305,268. BURGOO. Registered Aug. 8, 1933. Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware. Renewed Aug. 8, 1953. Smoking and Chewing Tobacco. Class 17.

305,269. "BURGOO KING" AND DESIGN. Registered Aug. 8, 1933. Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware. Renewed Aug. 8, 1953. Smoking and Chewing Tobacco. Class 17.

305,270. "FULL HOUSE" AND DESIGN. Registered Aug. 8, 1933. Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware. Renewed Aug. 8, 1953. Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff. Class 17.

305,536. "JOHNSON'S WAX" AND DESIGN LINED FOR YELLOW, BLACK AND RED. Registered Aug. 22, 1933. S. C. Johnson & Son, Inc., Racine, Wis., a corporation of Wisconsin. Renewed Aug. 22, 1953. Wax for Coating and Polishing Wood, Metal, and Other Surfaces, and Lacquer. Class 4.

305,643. MANSCO. Registered Aug. 22, 1933. The Manhattan Shirt Company, New York, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Knit Underwear and Cut and Sewn Underwear, Etc. Class 39.

305,604. SCAMP. Registered Aug. 22, 1933. Kops Brothers, Inc. Renewed Aug. 22, 1953, to Henry C. Fein, New York, N. Y. Bust Confining Garments. Class 39.

305,959. DAFOMAL. Registered Aug. 29, 1933. The Dalton Foundries, Inc., Warsaw, Ind., a corporation of Indiana. Renewed Aug. 29, 1953. Special Analysis, Especially Processed Malleable Iron Castings. Class 14.

305,979. DAFOGRA. Registered Aug. 29, 1933. The Dalton Foundries, Inc., Warsaw, Ind., a corporation of Indiana. Renewed Aug. 29, 1953. Special Analysis, Especially Processed Grey Iron Castings. Class 14.

306,051. "HORNSCO" AND DESIGN. Registered Sept. 5, 1933. Horn Surgical Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 5, 1953. Seamless Elastic Arch Grippers, Elastic Hip Reducers, Shoulder Braces, Etc. Class 44.

306,063. FIRE CHIEF. Registered Sept. 5, 1933. Wm. E. Hooper & Sons Co., Baltimore, Md., a corporation of Maryland. Renewed Sept. 5, 1953. Textile Fabrics in the Piece Treated With Fire-Proof Composition, Intended To Be Used in the Manufacture of Bags, Salvage Covers, Etc. Class 42.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

299,887. SILVER-GLO. Registered Dec. 27, 1932. The Patterson-Sargent Company, Cleveland, Ohio. Dry and Ready Mixed Paints, Etc. Class 16. Amended as follows: In the statement, line 6, "dry and" is deleted; and in lines 7, 8, and 9, "paint enamels, stains, lacquers, and varnishes" is deleted.

413,231. ROYAL. Registered Apr. 17, 1945. National Enameling & Stamping Company, Milwaukee, Wis. Metal Cooking Hollowware, Etc. Class 13. Amended as follows: In the certificate, line 4, after "New Jersey,"; in line 16, after "Company,"; and in the heading and signature to the statement, after "Company," *now by change of name Nesco, Inc.*, is inserted; in the statement, line 3, after "New Jersey" *, now by change of name Nesco, Inc.*, is inserted; line 6, "270 North 12th Street" is deleted and *947 West St. Paul Avenue* is inserted in lieu thereof; same line 6, after "Milwaukee" *1* is inserted; and in line 18, "coffee biggins" is deleted.

568,616. E. W. GROVE. Registered Dec. 30, 1952. The Grove Laboratories, Inc., St. Louis, Mo. Healing and Antiseptic Oil. Class 18. Amended as follows: In the certificate, line 3, and in the statement, line 3, after "Delaware,"; and in the certificate, line 13, and in the heading and signature to the statement, after "Inc.," *(now by change of name Grove Laboratories, Inc.)*, is inserted.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

179,115. "BLUE INN" AND DESIGN. Registered Feb. 5, 1924. Renewed Feb. 5, 1944. John Friedrich, Philadelphia, Pa. Ginger Ale, Sarsaparilla, and Root Beer. Class 45. New certificate under section 7(c) issued June 23, 1953, to Blue Anchor Beverage Company, Philadelphia, Pa., a corporation of Pennsylvania.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 304,385. Registered July 4, 1933. Tennessee Eastman Corporation, Kingsport, Tenn. Republished by Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey.

TENITE

For Molding Composition Comprising Cellulose Acetate and Suitable Plasticizers and, in Some Cases, Pigments, and Being in the Form of Slabs, Sheets, Granules, or Powder.
Claims use since Nov. 30, 1932.

Reg. No. 440,358. Registered Aug. 24, 1948. Polymers, Inc., Middlebury, Vt., a corporation of Vermont. Republished by registrant.

BRISTRAND

For Packaged Resinous Filaments for General Use in the Industrial Arts.
Claims use since Feb. 6, 1947.

CLASS 2

RECEPTACLES

Reg. No. 200,269. Registered June 30, 1925. The Jackson Box Company, Norwood, Ohio, a corporation of Ohio. Republished by registrant, present address, Cincinnati, Ohio.



For Cartons, Shipping Boxes, and Corrugated Containers.
Claims use since Jan. 19, 1925.

Reg. 439,420. Registered June 22, 1948. Cello-Masters, Incorporated, New York, N. Y., a corporation of New York. Republished by registrant.


Cello-Masters

For Cellophane and Cellulose Acetate Bags.
Claims use since Apr. 16, 1947.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 387,079. Registered Apr. 29, 1941. Keystone Chemical Company, Inc., Cleveland, Ohio. Republished by Charles Schrank, doing business as Shralyte Company, Cleveland, Ohio.

Keyspray

For Insecticide Moth Spray.
Claims use since June 1924.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 90,152. Registered Feb. 11, 1913. Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad, British West Indies. Republished by Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad, a company of Trinidad.



For Tonic Bitters.
Claims use since the year 1831.

Reg. No. 174,043. Registered Oct. 2, 1923. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

CRE-SO-MUL

For Preparation for the Treatment of All Types of Chronic Bronchitis, Phthisis, and a Gastrointestinal Antiseptic in Fermentative Gastritis and Enteritis.
Claims use since Nov. 8, 1922.

Reg. No. 185,719. Registered June 24, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

FORMASAL

For Powder Dispensed in Capsules, Tablets, or as a Powder for the Treatment of Rheumatism.
Claims use since the year 1910.

Reg. No. 185,720. Registered June 24, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

KAOLA

For Anti-Phlogistic Paste.
Claims use since the year 1904.

Reg. No. 185,721. Registered June 24, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

USANOL

For Stimulant and Diuretic for the Treatment of Kidney and Bladder Disorders.
Claims use since the year 1904.

Reg. No. 185,722. Registered June 24, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

SAL-GE-SIC

For Preparation for the Treatment of Rheumatic and Kindred Diseases.
Claims use since the year 1914.

Reg. No. 185,723. Registered June 24, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

MAL-A-TOL

For Preparation for the Treatment of Acute and Chronic Malaria.
Claims use since the year 1903.

Reg. No. 185,989. Registered July 1, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

INFANTOL

For Preparation for the Treatment of Infant Bowel Disorders.
Claims use since the year 1904.

Reg. No. 187,990. Registered Aug. 12, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

VIBUR-TONIC

The word "Tonic" is disclaimed apart from the mark as shown.
For Internal Medicine for the Treatment of Amenorrhea, Dysmenorrhea, and Other Menstrual Complaints.
Claims use since the year 1910.

Reg. No. 187,991. Registered Aug. 12, 1924. First Texas Chemical Manufacturing Company, Dallas, Tex., a corporation of Texas. Republished by registrant.

LIQUID PAPTOSE

For Internal Medicine for Digestive and Stomach Troubles.
Claims use since the year 1912.

Reg. No. 240,923. Registered Apr. 10, 1928. Oscar P. Luse, Los Angeles, Calif. Republished by Luseaux Laboratories, Inc., Gardena, Calif., a corporation of California.

LUSEAUX

For Medicine for Poultry.
Claims use since February 1926.

Reg. No. 379,445. Registered July 9, 1940. The Harrower Laboratory, Inc., Glendale, Calif., a corporation of Delaware. Republished by registrant, present address, Jersey City, N. J.

COMPESTRIN

For Compound of Certain Estrogenic Substances Notably Estrone and Estradiol, Originating From Natural Sources, that is, Not Synthetic, for Use by Parenteral, Oral, and Percutaneous Administration in the Treatment of Hypovarism, and Hypoestrinism in the Female.
Claims use since Feb. 26, 1940.

Reg. No. 409,093. Registered Sept. 12, 1944. First Texas Chemical Manufacturing Co., Dallas, Tex., a corporation of Texas. Republished by registrant.

NEOVICAPS

For Vitamin Preparation.
Claims use since on or about Mar. 27, 1944.

Reg. No. 435,553. Registered Dec. 30, 1947. Albert A. Firks, Los Angeles, Calif. Republished by registrant.

1-2-3 TABLETS

The word "Tablets" is disclaimed apart from the mark as shown.
For Obesity Tablets.
Claims use since Apr. 2, 1947.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 227,991. Registered May 17, 1927. Mixing Equipment Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address, Rochester, N. Y.

LIGHTNIN

For Electrically-Operated Mixing Equipment.
Claims use since Apr. 30, 1923.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 145,062. Registered July 26, 1921. The Collins Company, Collinsville, Conn., a corporation of Connecticut. Republished by registrant.

K. King

For Axes, Hatchets, Adzes, Bush-Hooks, Machetes, Saws, Chisels, Knives, Swords, Sickles, Mattocks, Pickaxes, Shovels, Spades, Crowbars, Picks, Hoes, Mill-Picks, Sledges, Hammers, Wedges, Wrenches, Augers, Boring-Bits, Earth and Rock Drills, Cavadores, Barretones, Tarpalas, Palas, Tercados, Jincolas, Barras, Lanzas, Lancitas, Arpones, Cleavers, and Bayonets.
Claims use since in or about the year 1826.

Reg. No. 170,241. Registered July 10, 1923. The Collins Company, Collinsville, Conn., a corporation of Connecticut. Republished by registrant.

DYNAMICUT

For Pickaxes, Crowbars, Wrenches, Tercados, Mattocks, Cavadores, Picks, Axes, Chisels, Lanzas, Barretones, Hoes, Hatchets, Knives, Lancitas, Earth and Rock Drills, Tarpalas, Mill Picks, Adzes, Swords, Arpones, Palas, Sledges, Bush Hooks, Sickles, Augers, Shovels, Hammers, Saws, Jincolas, Boring Hits, Spades, Wedges, Machetes, Barras.
Claims use since 1890.

Reg. No. 284,247. Registered June 23, 1931. The Oil Well Engineering Company, Ltd., New York, N. Y., and London and Stockport, England, a corporation organized under the laws of England. Republished by registrant.

"OWECO"

For Well-Boring Plants for Boring Oil, Gas, Water, and Salt Wells—Namely, Drilling Tools and Machinery for Operating Same, Steel Derricks, Rigs, Boilers, Pumps, Engines; Tools for Handling the Steel Casing Used in Oil Wells and for Cementing Same—Namely, Casing Tongs, Casing Jacks, Casing Elevators, Casing Cutters, Casing Blocks, Casing Stuffing Boxes, Casing Hooks, Casing Perforators, Casing Shoes, Casing Spears, Casing Spiders, Casing Splitters, Casing Swedges, Casing Swivels, Casing Wagons; Blocks and Tackle, Pump and Engine Fittings—Namely, Pump Pistons, Fitting Boxes, Lubricators, and Valves.
Claims use since Aug. 23, 1923.

Reg. No. 294,646. Registered June 7, 1932. Boggs Manufacturing Corporation, Atlanta, N. Y., a corporation of New York. Republished by registrant.

Boggs

For Potato Graders, Potato Seed Treating Machines, Bin Loaders, Onion Graders, Belt Conveyors, Picking Tables, Sack Elevators, Belt Elevators.
Claims use since June 1, 1926.

Reg. No. 303,463. Registered May 23, 1933. Karmelkorn Corporation, Rockford, Ill., a corporation of Illinois. Republished by registrant, present address Chicago, Ill.

KARMELKORN

For Machines for Popping and Treating Popcorn.
Claims use since Jan. 6, 1931.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 438,373. Registered Apr. 20, 1948. Aseptic-Thermo Indicator Co., Los Angeles, Calif., a corporation of California. Republished by registrant.



For Indicators Which Are Adapted To Change Color When Subjected to a Predetermined Time-Temperature Exposure.
Claims use since Aug. 17, 1944.

Reg. No. 438,374. Registered Apr. 20, 1948. Aseptic-Thermo Indicator Co., Los Angeles, Calif., a corporation of California. Republished by registrant.

COOK-CHEX

The term "Cook" is disclaimed apart from the mark as shown.
For Indicators Which Are Adapted To Change Color When Subjected to a Predetermined Time-Temperature Exposure.
Claims use since Aug. 17, 1944.

Reg. No. 160,726. Registered Oct. 24, 1922. John L. Whiting-J. J. Adams Company, Boston, Mass. Republished by Whiting-Adams Company, Inc., Boston, Mass., a corporation of Massachusetts.

ADAMS

For Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping, and for Toilet Use.
Claims use since on or about Jan. 1, 1841.

Reg. No. 160,735. Registered Oct. 24, 1922. John L. Whiting-J. J. Adams Company, Boston, Mass. Republished by Whiting-Adams Company, Inc., Boston, Mass., a corporation of Massachusetts.

WHITING'S

For Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1868.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 355,124. Registered Mar. 8, 1938. Cemline Corporation, Chesnick, Pa., a corporation of Pennsylvania. Republished by registrant.

STONESTEEL

The word "Steel" is disclaimed apart from the mark as shown.
For Hot Water Tanks and Range Boilers.
Claims use since about Sept. 30, 1935.

CLASS 37

PAPER AND STATIONERY

Reg. No. 232,101. Registered Aug. 30, 1927. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass., a corporation of Massachusetts.

TREASURY

For Bond Paper.
Claims use since June 1891.

Reg. No. 304,089. Registered June 20, 1933. Riegel Paper Corporation, Riegelsville, N. J., a corporation of New Jersey. Republished by registrant, present address New York, N. Y

TRANSOLITE

For Wrapping Papers—Namely, Waxed Papers, Plain and Waxed Glassine Papers, Transparent Wrapping Paper, Wax Sulphite Paper, and Cake and Bread Wraps, Excluding Papers for Office Equipment.
Claims use since Oct. 28, 1931.

Reg. No. 441,125. Registered Oct. 19, 1948. Cello-Masters, Incorporated, New York, N. Y., a corporation of New York. Republished by registrant.

Cello-Masters

For Cellophane and Cellulose Acetate Wrapping and Packaging Materials in Sheet Form and in the Form of Tubing.
Claims use since Apr. 16, 1947.

CLASS 39

CLOTHING

Reg. No. 294,622. Registered June 7, 1932. W. B. Coon Company, Rochester, N. Y., a corporation of New York. Republished by registrant.

Foot Caress

For Women's Leather Shoes.
Claims use since Jan. 25, 1932.

Reg. No. 304,873. Registered July 18, 1933. (Classified in Class 42.) Riegel Textile Corporation, New York, N. Y. Republished by Riegel Textile Corporation, New York, N. Y., a corporation of Delaware.
The drawing is lined for blue.
See this number in Class 42 for goods and mark.
Claims use since Feb. 24, 1933.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 304,873. Registered July 18, 1933. Riegel Textile Corporation, New York, N. Y. Republished by Riegel Textile Corporation, New York, N. Y., a corporation of Delaware.



The drawing is lined for blue.
For Cotton Piece Goods and Diapers.
Claims use since Feb. 24, 1933.

CLASS 43

THREAD AND YARN

Reg. No. 419,182. Registered Feb. 3, 1946. Falls Yarn Mills, Woonsocket, R. I., a corporation of Rhode Island. Republished by registrant.

Fallspun

For Yarns of Wool and Other Fibres or Mixtures Thereof.
Claims use since on or about Mar. 26, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 134,276. Registered Aug. 24, 1920. Richmond-Chase Company, San Jose, Calif., a corporation of California. Republished by registrant.

HEART'S DELIGHT

For Canned Fruits—Namely, Canned Cherries, Canned Plums, Canned Peaches, Canned Apricots, and Canned Pears; and Canned Vegetables—Namely, Canned Tomatoes.
Claims use since July 19, 1919.

Reg. No. 266,394. Registered Jan. 14, 1930. Theo. J. Lapres, Inc., Atlantic City, N. J., a corporation of New Jersey. Republished by registrant.



The words "Original Salt Water Taffy" are disclaimed apart from the mark as shown.
For Salt-Water Taffy.
Claims use since about 1894.

Reg. No. 302,765. Registered Apr. 25, 1933. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Republished by registrant.

SURECALF

For Stock Food.
Claims use since Nov. 28, 1932.

Reg. No. 434,669. Registered Dec. 2, 1947. The Kroger Co., Cincinnati, Ohio, a corporation of Ohio. Republished by registrant.

Kroger

For Bread, Butter, and Fresh Milk.
Claims use since 1883.

Reg. No. 437,648. Registered Mar. 30, 1948. The Kroger Co., Cincinnati, Ohio, a corporation of Ohio. Republished by registrant.

Kroger

For Canned Fruits and Vegetables.
Claims use since 1883.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 302,284. Registered Apr. 11, 1933. Slater, Rodger & Company, Limited, Glasgow, Scotland, a company of the United Kingdom of Great Britain and Northern Ireland.



All matter appearing on the drawing with exception of the pictorial representation of the music stand and the name of "Huntly Bottling Stores" is disclaimed apart from the mark as shown.
For Whisky.
Claims use since December 1897.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 304,480. Registered July 11, 1933. Chicago Curled Hair Company, Chicago, Ill. Republished by General Felt Products Co., Chicago, Ill., a corporation of Illinois.

SPRINGSTEP

For Carpet Pads and Carpet Lining.
Claims use since the early part of October 1932.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 212,672. Registered May 11, 1926. John A. Martin, doing business as Peerless Products Company, Jersey City, N. J. Republished by Peerless Products Company, Jersey City, N. J., a corporation of New Jersey.

NU-NILE

For Cold Cream and Hairdressing Pomade, Especially Bobbed-Hair Gloss Adapted for Straightening and Pressing Kinky Hair.
Claims use since June 4, 1924.

REISSUES

JUNE 23, 1953

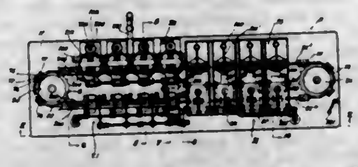
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,669
CONTAINER FLAP FOLDING APPARATUS

Samuel H. Berch, deceased, late of Beverly Hills, Calif., by Arden Farms Co., assignee, Los Angeles, Calif.

Original No. 2,500,922, dated March 21, 1950, Serial No. 631,331, November 28, 1945. Application for reissue January 19, 1953, Serial No. 332,130

3 Claims. (Cl. 53—96)



1. In a packaging machine, means for closing a carton having vertical side walls including folded gussets, certain of which form pockets, and intermediate side walls at least one of which carry cover members for closing the top of said container, one of said cover members having side flaps to be introduced into the gusset pockets, which closing means includes a mold into which the carton is seated, inner cover folding means disposed at one side of said mold and adapted to fold an inner cover over the mouth of a carton, outer cover folding means disposed upon the opposite side of the mold and adapted to fold the outer cover over the inner cover, said outer cover carrying the side flaps, means carried by the outer cover folding means to fold the side flaps parallel to each other and at right angles to the cover portion whereby the side flaps will be inserted into the gusset pockets as the carton is closed, and synchronous driving means for the two folding means whereby they will operate in succession to close the top of the carton.

23,670
INTEGRAL CARTON FOR PROTECTION OF FRAGILE ARTICLES

John F. Currivan, New York, N. Y.

Original No. 2,611,529, dated September 23, 1952, Serial No. 56,736, October 27, 1948. Application for reissue March 30, 1953, Serial No. 345,750

9 Claims. (Cl. 229—38)



5. An integral carton of substantially rectangular cross-section for the protection of fragile articles consisting of a single blank having first, second, third, and fourth side wall panels which are separated by fold lines and are angularly related in the erected carton, at least two end closure flaps having foldable extensions, said end closure flaps integrally extending from the ends of certain of said first, second, and fourth side wall panels only, additional [and] *end* closure flaps extending integrally from the opposite ends of two of the side wall panels which are opposed in the erected carton and, in the erected carton, are immediately adjacent the panels to which said first mentioned end closure flaps are attached, said end closure flaps being adapted to provide end walls of the erected closed carton, a glue lap extending from said fourth side wall panel and adapted to be overlapped by said first side wall panel and be rigidly secured thereto, and an internal flap panel extending integrally from said glue lap in angular relation to said first side wall panel in the erected carton and terminating in a free end in sliding contact with the inner surface of [said second] *one of said* side wall [panel] *panels* to provide a flexible inner wall panel in the erected carton to yieldingly support an article therein, said inner flap panel having at least one lateral edge portion inclined with respect to the fold lines whereby an article being inserted into the carton exerts *a* [the] camming action against said edge portion to facilitate the loading of said carton.

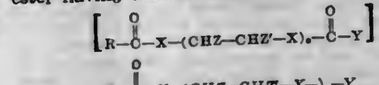
23,671
EXTREME PRESSURE LUBRICANT

Elmer B. Cyphers, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

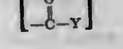
No Drawing. Original No. 2,540,570, dated February 6, 1951, Serial No. 65,520, December 15, 1948. Application for reissue May 3, 1952, Serial No. 286,004

4 Claims. (Cl. 252—46.6)

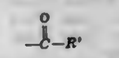
1. An extreme pressure additive for mineral base lubricating oils consisting essentially of an ester having the formula



wherein X is an element selected from the class consisting of oxygen and sulfur;
n is an integer ranging from 1 to 4;



Y is

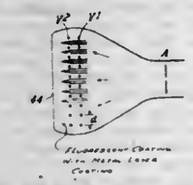


which is the combining radical of a rosin acid;
R is an unsaturated fatty acid *residue* having from 11 to 21 carbon atoms; and
Z and Z′ are radicals selected from the class consisting of hydrogen and paraffinic hydrocarbons containing from 1 to 4 carbon atoms,

said ester being treated with a sufficient amount of elemental sulfur at a temperature of from 250° F. to 500° F. for from 1 to 10 hours so that the final product contains from about 4.49% to about 8.1% sulfur, and then treated with a suffi-

cient amount of a phosphorus sulfide at a temperature of from 150° F. to 250° F. for from 6 to 12 hours so that the final product contains about 0.21% to 0.31% prosphorus.

23,672
TELEVISION TUBE
Ferenc Okolicsanyi, London, England, assignor, by mesne assignments, to Chromatic Television Laboratories, Inc., a corporation of California
Original No. 2,532,511, dated December 5, 1950, Serial No. 785,417, November 12, 1947. Application for reissue November 26, 1952, Serial No. 322,839. In Great Britain November 16, 1946
3 Claims. (Cl. 315—21)



10. A cathode-ray tube having included within its evacuated envelope at one end an electron gun adapted to generate an electron beam and to bring the beam to a substantially focused state at a viewing plane spaced therefrom, said viewing plane comprising a target area within the tube in a region remote from the gun toward which the electron beam is directed, said target area being formed of material adapted to respond to the generated electron beam to develop light at the area of instantaneous beam impact, said electron beam being adapted to be deflected bidirectionally relative to the impacted target to trace thereon an image area, an electron lens comprising a plurality of electrode elements each of substantially like area and of an area substantially like that of the target and disposed substantially parallel to the target, each electrode of the plurality being permeable to electrons of the beam, one of said lens electrodes comprising an electron permeable metal layer coating that surface of the target faced toward the electron gun, the other of said lens electrodes comprising a plurality of spaced conductor elements parallel to one another and spaced apart from each other by distances approximating the electron beam cross section at its smallest area, the parallel conductors being located between the metal layer and the electron gun and in the region of target, the said spaced conductors being adapted to define an aperture between each pair of conductors with each aperture defining the pupil of an electron lens, and terminal connections adapted to supply to each of said lens electrodes different potentials to focus the electrons of the beam entering the pupil upon the target within an area of the target which is of smaller dimension than said pupil.

PLANT PATENTS

GRANTED JUNE 23, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,198
DICENTRA PLANT
Richard H. F. Manske, Guelph, Ontario, Canada, assignor to John J. Grullemans, Cleveland, Ohio
Application December 8, 1951, Serial No. 260,684
1 Claim. (Cl. 47—60)

The new variety of Dicentra plant herein shown and described, characterized by its outstanding hardiness and vigorousness, its extreme floriferousness, its long blooming period, or periods, the large size and wide range of good colors of its flowers; its longer flower stalks which are basal in all cases, its hardiness and resistance to drought and cold, its more generaly upright growth, and its propensity to bloom both in the spring and fall.

1,199
ROSE PLANT
Milton L. Whisler, Van Nuys, Calif., assignor to Germain's, Inc., Van Nuys, Calif., a corporation of California
Application September 26, 1951, Serial No. 248,295
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized as to novelty by its vigorous growth, heavy canes, long and strong stems, by its long pointed buds, and by the profuse blooming habit of its flowers of yellow color near the bases of the petals, shading to creamy white near the outer edges of the petals, and sometimes washed or tinted Shrimp Pink on both the inside and outside surfaces of the pedals.

1,200
ROSE PLANT
Milton L. Whisler, Van Nuys, Calif., assignor to Germain's, Inc., Van Nuys, Calif., a corporation of California
Application September 26, 1951, Serial No. 248,297
1 Claim. (Cl. 47—61)

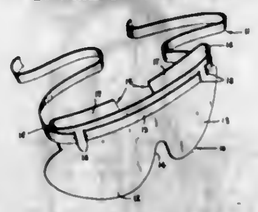
A new and distinct variety of rose plant of the hybrid polyantha class, substantially as herein shown and described, characterized as to novelty by its dwarf habit of growth, by its free-flowing habit and abundance of flowers borne thereby, by the distinctive coloring of the flowers, and by the changing colors thereof through a relatively wide range as the flowers age.

PATENTS

GRANTED JUNE 23, 1953

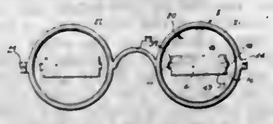
GENERAL AND MECHANICAL

2,642,568
EYE PROTECTIVE DEVICE
Walter A. Stewart, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application August 3, 1950, Serial No. 177,359
17 Claims. (Cl. 2—14)



1. An eye protective device comprising an eye shield formed of a sheet of transparent flexible light altering material shaped to cover the eyes of a wearer and having elongated integral tabs formed in the temporal areas thereof, said tabs being bent in a direction rearwardly of the shield and then turned inwardly toward one another and lying in spaced relation with the adjacent upper edge of the shield for resiliently engaging the forehead of the wearer and spacing the shield therefrom when in position of use.

2,642,569
SUN GUARD FOR THE EYES
Herman A. Triebes and Helen E. Triebes, Forest Park, Ill.
Application December 21, 1950, Serial No. 201,938
4 Claims. (Cl. 2—14)



1. A sun guard for the eyes comprising: an opaque disc having a relatively small sight opening for limited vision therethrough and having slots spaced between the respective edges of said sight opening and the peripheral edge of said opaque disc; and a semi-opaque plate arranged on the inner surface of said opaque disc and providing a cover for said sight opening, said semi-opaque plate having tongues projecting beyond the marginal edges thereof and respectively inserted in said slots for removably supporting said semi-opaque plate on said disc.

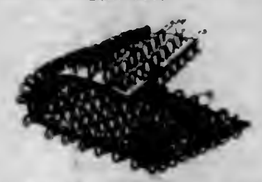
2,642,570
GARMENT
Harry S. Heilbronner, Perry, N. Y.
Application March 14, 1951, Serial No. 215,466
2 Claims. (Cl. 2—98)

1. A garment of the character described, comprising a body having front and back portions terminating at their upper edges short of the neck portion, and a one-piece neck and shoulder inset of elastic knit material disposed in spanning fashion between such upper edges and secured at its front and rear edges thereto the neck



portion of the inset being upstanding with the wales thereof extending vertically and the shoulder portions radiating diametrically in opposite direction from the base of the neck portion and with the wales thereof directionally alined with those of said neck portion.

2,642,571
COLD WEATHER INSULATION GARMENT AND FABRIC
Walter L. Brown, Lansdowne, Pa.
Application May 21, 1951, Serial No. 226,242
10 Claims. (Cl. 2—97)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A cold weather jacket comprising an outer fabric layer of jacket configuration and an insulation liner comprising a flexible textile backing and pile warps interwoven with said backing, said pile warps being of resilient textile material of substantially greater stiffness than said backing and forming erect individual face loops and back loops highly resistant to compression, each of said individual face loops being spaced from any of the other face loops immediately above the surface of said backing and each of said individual back loops being spaced from any of the other back loops immediately below the surface of said backing, whereby a plurality of insulating dead air pockets is formed beneath said outer fabric layer.

2,642,572
NECKTIE
Leon Tobias, Brooklyn, N. Y.
Application May 25, 1949, Serial No. 95,914
2 Claims. (Cl. 2—150)

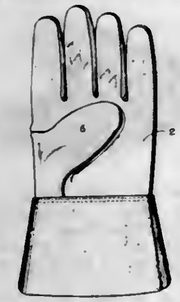
1. A tie made of paper or other suitable material comprising means forming a main panel

with tapering sides providing a narrower portion at the upper part thereof and a knot panel, the main panel and knot panel being in one piece with the knot panel above the narrower portion, and a part of the narrower portion at the edge of the knot panel being folded vertically in back of the knot panel, the knot panel having a width greater than the narrower portion of the main panel and



bent rearwardly over the vertically folded narrower portion of the main panel, means to secure the rearwardly bent knot panel in bent form and retain the narrower portion bent in back thereof in folded relation, and an extension carried by the means at the upper end thereof which is bent backwardly and outside of the bent knot panel to form a holding means to slip behind the collar of the wearer.

2,642,573
WORK GLOVE, MITT, ONE-FINGER OR THE LIKE
John Vincent Huck, Kitchener, Ontario, Canada, assignor to The Huck Glove Company, Limited, Kitchener, Ontario, Canada
Application April 27, 1950, Serial No. 158,429
2 Claims. (Cl. 2—169)



1. A hand covering of the work glove, one-finger or mitt type comprising a main blank providing the front covering for the thumb, the front and upper back of the first finger and the front of the remaining fingers and the palm; a back for the thumb; a back for the lower part of the first finger; and coverage for the back of the remaining portions of the hand; said main blank being of substantially symmetrical, generally rectangular form with the front and back of the first finger occupying one upper corner of the blank and partially separated by scores at substantially more than right angles to one another, from the underlying and downwardly extending chopper-style thumb part and the main portion of the blank that provides the front for the remaining fingers and palm, respectively; the score between the first finger and downwardly extending thumb part, for defining the junction between the back of the first finger and said back for the lower part of the first finger, being located and at such an angle as to lie below the first knuckle joint and on a line declining inwards from the thumb crotch.

2,642,574
HELMET FOR PROTECTION AGAINST LOW-TEMPERATURES
Valto K. Eloranta, Boston, Mass., assignor to the United States of America as represented by the Secretary of the Army
Application February 7, 1952, Serial No. 270,307
5 Claims. (Cl. 2—205)

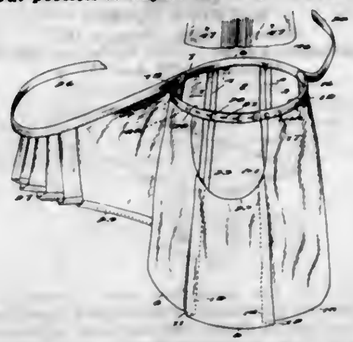


1. A mask for protecting the face against low temperatures comprising an inner wall for engagement with the face and covering the major portion of the face and having a first opening in the region of the eyes and a second opening below the first opening for receiving the nose and mouth, an outer wall spaced forwardly of said inner wall and forming an insulating air space between the walls, the outer wall having a first opening in the region of the eyes and a second opening adjacent to the second opening of the inner wall, a transparent pane mounted within the first opening of the outer wall, a closure member carried by the mask and covering the second opening of the outer wall, a forwardly extending sleeve connecting the inner and outer walls between the second openings, a top perforated wall connecting the inner and outer walls above the first openings and allowing air to pass into the space between the inner and outer walls, a check valve mounted upon said forwardly extending sleeve to permit air from the space between the inner and outer walls to enter the sleeve, and a check valve mounted upon the closure member to permit exhaling when the closure member is closed.

2,642,575
MATERNITY GARMENT
Dolores S. Prescott, Jacksonville, Fla.
Application July 12, 1950, Serial No. 173,260
3 Claims. (Cl. 2—221)

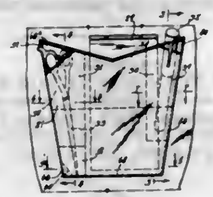
1. A maternity garment comprising a skirt having side seams, a back portion, and a front portion, a belt attached at an intermediate portion to said back skirt portion, a belt member attached at its ends to the inner side of said belt adjacent said side seams, said front skirt portion having an upper, central, generally-U-shaped cut out portion and being attached to

said belt member on each side of said cut out portion, a plurality of vertical pleats in said front skirt portion, said pleats terminating upwardly at a lower part of said cut out portion and being sewed in shape thereat, means at said cut out portion to adjust the length of said belt



member, and a vertically pleated flap member depending from a portion of said belt adjacent said intermediate portion, said flap member being proportioned and arranged to hide said cut out portion when said belt is disposed in normal body-encircling position.

2,642,576
POCKET STRUCTURE FOR NURSES' UNIFORMS AND OTHER GARMENTS
Emanuel Kotkes, Rockville Centre, N. Y.
Application November 23, 1951, Serial No. 257,719
8 Claims. (Cl. 2—253)



1. A pocket structure for attachment to the front of a nurse's uniform or the like, comprising a main outer wall for attachment along its side and bottom edges to the front of the uniform to form a main pocket, said main outer wall being shaped so as to have a straight, horizontal bottom edge, a pair of substantially straight side edges extending downward to said bottom edge, and a top edge, said main outer wall having its top corners cut off diagonally whereby to provide downwardly and outwardly sloped top edge portions adjacent said top edge, an inner wall, said inner wall being coextensive with the upper portion of said outer wall and having a substantially straight horizontal bottom edge, a pair of substantially straight side edges extending downward to said bottom edge, said side edges of said inner wall being substantially less in length than said side edges of said outer wall and adapted to coincide therewith, and a top edge, said top edge being adapted to coincide with said top edge of said outer wall, the upper corners of said inner wall extending upwardly and outwardly beyond said cut-off corners of said outer wall, said inner wall being seamed to said outer wall along the top edges of said outer and inner walls intermediate said cut-off corners of said outerwall, and spaced minor pockets extended vertically along the sides of said outer wall intermediate said inner and outer walls, said minor pockets having rear and front walls secured along their outer edges to the side edges of said inner and outer walls, said front walls of said minor pockets having their top edges cut off diagonally and adapted to coincide with said cut-off corners of said outer wall and secured thereto, said rear walls of said minor pockets having their top edges shaped so as to coincide with the upper corners of said inner wall and secured thereto above said cut-off corners of said outer wall.

2,642,577
CURTAIN EDGE CONSTRUCTION
Harry Sherman, New York, N. Y., assignor to Ardsley Curtain Co. Inc., New York, N. Y., a corporation of New York
Application October 21, 1948, Serial No. 55,811
1 Claim. (Cl. 2—278)



A curtain construction comprising a fabric curtain base panel having a free integral fabric edge, said free edge of the panel being folded upon itself and thereby providing a front middle portion and a second front portion, said free edge being further folded back upon itself and thereby providing a third front portion, said free edge being still further folded outwardly and around the one and second front portions and thereby providing an integral binding portion running normal to said other portions, said free edge being still further folded in the direction of the other portions thereby providing a fourth and rear portion and overlying said other portions, said free edge being still further folded under the fourth portion and thereby providing a rear and fifth portion, said free edge still further being folded along the one front middle portion thereby providing a rear middle and sixth portion, said integral binding portion taken with the third and fourth portions encompassing the other portions, stitch means extending directly through the six portions whereby a closed and bound six-ply curtain edge is provided, said rear middle and sixth portion extending laterally from the other portions and along the front middle portion and further means for securing the rear middle portion to the base panel.

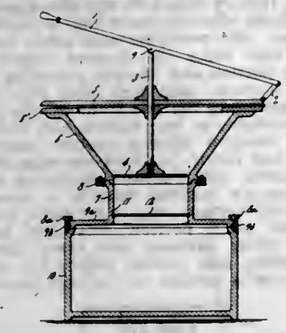
2,642,578
GARMENT PAD FOR HOSIERY GARTERS
Mary Marchese, New York, N. Y.
Application October 12, 1949, Serial No. 120,916
1 Claim. (Cl. 2—300)



A combined stocking supporter and skin protection pad, said supporter being characterized by a clasp device and an elastic tape of a width

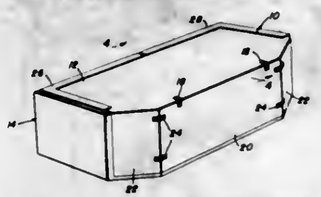
corresponding to that of the clasp and joined to the clasp device by a shackle member of a width greater than the widths of the clasp device and the tape and projected equally from opposite sides of the clasp device and the tape, said pad comprising a first piece of cloth material extended vertically behind the clasp device and partially behind the tape, and a second piece of cloth material coextensive with and located behind said first piece of cloth material and having its peripheral edges secured to the peripheral edges of said first piece of cloth material, the remainder of the material of said pieces being spaced apart to form a pocket, said first piece of cloth material having adjacent its top end a pair of vertically spaced horizontally extended slits through which the stocking supporter is laced with the tape extending from the upper slit, the clasp device extended from the lower slit and the shackle member located in said pocket behind the first piece of cloth material between said slits, said slits being spaced vertically a distance slightly greater than the height of the shackle member, said slits being of a length slightly greater than the width of the tape and the clasp device but less than the width of the shackle member, whereby the material of said first piece of cloth material at the ends of said slits will engage the top and bottom edges of the shackle member where it projects beyond the side edges of the tape and the clasp device for holding the pad against all vertical movement relative to the stocking supporter.

2,642,579
DRY TOILET AND SEALER
Elbert H. Posey, Ashville, N. C.
Application September 19, 1949, Serial No. 116,599
2 Claims. (Cl. 4—121)



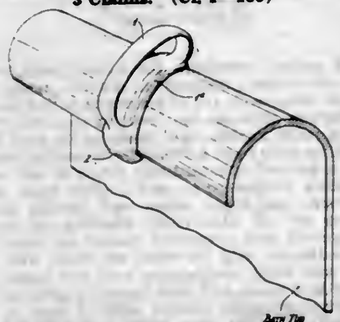
1. A dry toilet and sealer therefor comprising, in combination, a collecting receptacle for receiving waste matter, a cylindrical sealing section of reduced diameter and including an upper end and having a lower end connected to said receptacle, said sealing section being provided with an annular groove in the inner wall surface of said section and adapted to receive a sealing disk in said groove, an upwardly and outwardly flaring bowl including a seat thereon connected to the upper end of said sealing section, a cover for said bowl and pivotally connected to said seat, said cover being provided with an opening, a stem passing through said opening, an operating handle movably connected to one end of said stem, a plunger attached to the other end of said stem and adapted to project into said sealing section, said plunger being movable upon actuation of said handle and upon movement of said stem to pass through said sealing section, whereby waste matter deposited on said sealing disk may be forced with the latter through said plunger into said receptacle.

2,642,580
BATHTUB COVER
Robert T. Gibb, Chicago, Ill.
Application August 1, 1951, Serial No. 239,730
5 Claims. (Cl. 4—173)



1. A bath tub protective cover comprising a top panel of substantially rectangular configuration and having front, rear and end edges and a series of slots adjacent said edges, said top panel being adapted to be positioned atop a bath tub and having positioned cleats fixed to its underside that are adapted to project downwardly into the bath tube, a pair of L-shaped extension panels, each of said extension panels being slidably mounted on the top panel and overlying an end edge and the portion of the rear edge adjoining, a side panel depending from and hingedly connected to the front edge of the top panel for vertical swinging movement, and an auxiliary protective side panel hinged to and constituting a horizontal extension of the side panel, lugs depending from the underside of said L-shaped extension panels, said lugs extending through said slots and retaining said extension panels on said top panel.

2,642,581
HANDGRIP ATTACHMENT FOR BATHTUBS
Ira G. Loe, Cleveland, Ohio, assignor to Thurman L. Marr, Andover, Ohio
Application May 26, 1948, Serial No. 29,329
3 Claims. (Cl. 4—185)



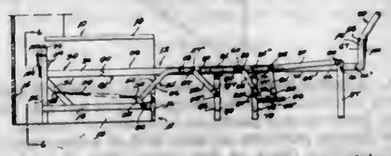
1. An attachment for a bath tub, comprising a hand-grip portion adapted to be positioned transversely upon the top edge of a bath tub at either the right-hand or the left-hand side thereof, means extending outwardly from said hand-grip portion and inwardly beneath the top edge portion of the bath tub, duplicate means provided upon the two sides of the longitudinal axis of said inwardly extending portion, for effecting securing engagement of either side thereof with the under-side of the top edge portion of the bath tub, and means upon each side of said hand-grip portion, forwardly and rearwardly thereof, for engagement at one side thereof with the top edge portion of the bath tub while force is being exerted by the user upon said hand-grip portion in a direction towards the user during normal use of the device.

2,642,582
HOPPER SEAT COVER
John W. Patton, Philadelphia, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application December 12, 1947, Serial No. 791,245
2 Claims. (Cl. 4—242)



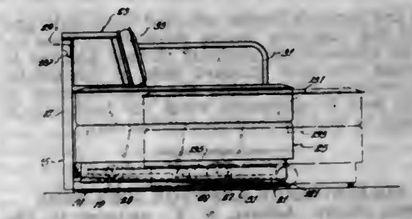
1. A hopper cover comprising a fibrous flat base member, a fibrous skirt depending from and secured to the marginal portion of the front and sides of the base member, a cushion on the base member, top covering material over the cushion having a downturned edge secured to the upper portion of the outer face of the skirt, a formed plastic covering fitting closely against the under face of the base member and the inner face of the skirt, said plastic covering having a rear upturned flange extending in cover relation with the rear of the base member and abutting the lower edge of the rear top covering, said plastic covering also having the lower side and front edge portions extending beneath the bottom of the skirt and upwardly closely adjacent the outside face of the skirt into abutting relation with the lower edge of the top covering material secured on the skirt, and means securing the plastic covering to the base member.

2,642,583
SOFA BED
Albert M. Bank, Jersey City, and Alex J. Katz, Belleville, N. J.
Application July 18, 1950, Serial No. 174,380
18 Claims. (Cl. 5—13)



1. In combination, a sofa frame comprising a front board and side boards, a front horizontal support member attached to the inner surface of the front board, a pair of horizontal side support members attached to the inner surfaces of the side boards, a pair of vertical rear legs attached to the inner surfaces of the side boards, a bed frame comprising a head section pivoted to the upper ends of said rear legs, an intermediate section pivoted to the forward end of said head section, legs pivoted at their upper ends to the forward ends of said intermediate section, a relatively short fold section pivoted to the front end of said intermediate section, legs pivoted at their upper ends to the forward end of said fold section, a tail section pivoted to the front end of said fold section, counterbalancing levers pivoted to the side support members and to the intermediate section, counterbalancing springs to aid in rotating said levers in a direction to unfold the bed frame, links interconnecting said levers with the legs pivoted to the intermediate section, front legs pivoted to the tail section, levers pivoted to the fold section and to the front legs at points above the pivotal connections between said front legs and the tail section, brackets pivoted relative to the legs which are pivoted to the fold section, and links interconnecting said brackets with the levers which interconnect the fold section with the front legs.

2,642,584
SOFA BED
John S. Petersen and Harry E. Coshun, Kenosha, Wis., assignors to Simmons Company, Kenosha, Wis.
Application February 15, 1951, Serial No. 211,108
8 Claims. (Cl. 5—19)

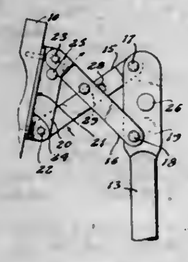


4. A sofa bed comprising a normally stationary sofa frame including a back rest extending forwardly from the upper rear portion of the frame and a forwardly and downwardly inclined ramp portion extending downwardly from the lower rear portion of the frame, a couch section movably supported on said ramp portion, releasably interengageable latch members on said frame and said couch section for holding said couch section at a rearward position on said ramp portion with said couch section partially underlying said back rest to form a sofa, said couch section being shiftable by its own weight upon release of said latch members to a forwardly disposed position to expose substantially the entire area of said couch section for sleeping purposes, resilient means interposed between said frame and said couch section and effective only during the initial portion of the forward movement of said couch section to urge said couch section forwardly.

2,642,585
COUCH WITH SWINGABLY MOUNTED BACK REST OR PILLOW SUPPORT
James Pillero, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application October 6, 1950, Serial No. 188,678
2 Claims. (Cl. 5—59)

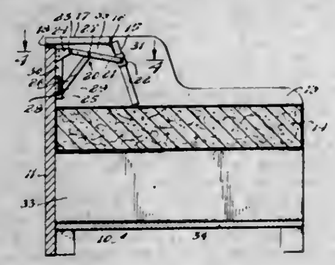
1. In a couch of the type adapted to be made into a bed, a couch body, a back rest extending longitudinally thereof, uprights affixed to the couch in spaced apart relation at the rear thereof and projecting above the couch, angle brackets affixed to said back rest, pairs of crossed link members pivotally connected to said uprights respectively and pivotally connected to said brackets for swinging movement of said back rest from a position arranged in superposed relation over the couch with the link members disposed in crossed relation to an out-of-the-way position with the back rest disposed in inverted relation and facing rearwardly and with the link mem-

bers of each pair disposed in parallel alignment, said angle brackets and said uprights having lugs against which certain of said link members engage for limiting the forward and rearward movements of said back rest, the upper pivotal connections of the link members with the brack-



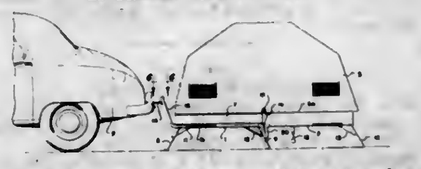
ets and uprights having enlarged outer ends, and said link members having recessed portions located substantially medially thereof adapted to engage over said enlarged ends of the pivotal connections for latching the link members of each pair in alignment when the back rest is swung to said out-of-the-way position.

2,642,586
FOLDING BACK REST FOR SOFA BEDS
James Piliero, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application April 28, 1951, Serial No. 223,525
3 Claims. (Cl. 5—59)



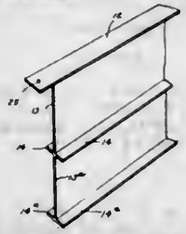
3. In a sofa bed of the type adapted to be used as a couch or as a bed, a body including a rear wall and opposite end walls connected with the rear wall adapted for receiving a mattress disposed between said end walls, a back rest, a top wall hingedly connected with the rear wall along the upper edge thereof and hingedly connected with the back rest along its upper edge, vertically disposed supports affixed to the rear wall at the opposite ends thereof and having forwardly projecting flanges provided with vertically disposed slots, links pivoted to said back rest and to the upper ends of said supports respectively, and links pivoted to said first mentioned links intermediate the ends thereof and having heads at their lower ends slidably arranged in the slots of said forwardly projecting flanges respectively for permitting swinging movement of the first mentioned links about the pivotal connections with the supports for disposing the back rest in a forwardly inclined relation and in an out-of-the-way position.

2,642,587
EXTENSIBLE BED AND SHELTER FOR MOTOR VEHICLES
Byron M. Taylor, San Diego, Calif.
Application March 29, 1948, Serial No. 17,786
19 Claims. (Cl. 5—119)



1. In an extendable bed and shelter of the class described, the combination of a pair of box-shaped frame members extendably connected together, having normally enclosed bottom portions and open upper sides, canopy bows having pivoted attachment means at adjacent ends of said frame boxes when in extended relationship to each other, each of said pivoted means including a bracket secured to said frame boxes, said bracket having a stud and end plates secured thereto whereby coaxial ends of the bows may be fastened on said stud by said end plates, whereby said bows extend over both of said frame boxes from a position substantially at the middle of said extendable bed, said bows extending outwardly of said box-shaped frame members, whereby they may be positioned outwardly of one of said box-shaped frame members when the extendable bed is collapsed.

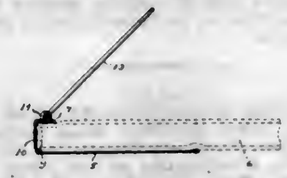
2,642,588
COMBINATION BED SLAT AND DRAWER HANGER
Lydia H. Gunn, San Rafael, Calif.
Application February 27, 1950, Serial No. 146,525
2 Claims. (Cl. 5—308)



1. A combination bed-slat and drawer hanger for a conventional bed comprising, a flat slat portion having end portions adapted to engage on side frame portions of said bed, a lower vertical web portion fixed to the under side of said slat portion, the end portions of said slat portion extending out beyond the end portions of said web portion, drawer slide-ways longitudinally formed on said web portion, said slat portion and the web and drawer slide-ways portions adapted to be located at ninety degrees to the major axis of said bed side frame portions.

2,642,589
BEDCLOTHES SUPPORT
Margaret L. Cobb, Southport, Maine
Application August 21, 1951, Serial No. 242,825
5 Claims. (Cl. 5—319)

3. A bed clothes support attachable to a mattress, said support comprising a base including parts vertically spaced to receive a portion of said mattress between them and a pair of transversely alined mounts, and a U-shaped supporting element of resilient stock, the ends of said element being located between said mounts and normally engaging therewith, a pivot loosely connecting each extremity to a mount to enable said element to swing upwardly and downwardly with respect



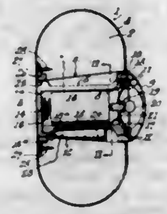
to said mattress and said element ends to be moved towards each other relative to said mounts to establish a released position, each mount having a series of recesses arcuately disposed with respect to the pivot axis, and a member carried by each element end to enter into a recess to lock said element in a predetermined position except when said ends are in their released position.

2,642,590
BOAT
Frans Hermann, Rosenheim, Germany, assignor to Klepper-Werke, Rosenheim, Bavaria, Germany, a German firm
Application March 7, 1950, Serial No. 148,037
In Germany October 1, 1948
1 Claim. (Cl. 9—2)



A boat, comprising a boat frame having ribs and substantially vertical side walls carried by said ribs and located entirely above the water line of the boat, collapsible and inflatable air tubes extending outside of and along said side walls in contact therewith, and a covering tightly enclosing said boat frame and said air tubes and being tightly stretched both above and below said air tubes when the air tubes are filled with air.

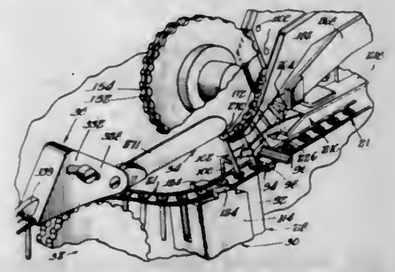
2,642,591
LIFE PRESERVER AND ILLUMINATING MEANS THEREFOR
Clyde R. Craver, Mobile, Ala.
Application May 24, 1951, Serial No. 228,106
2 Claims. (Cl. 9—8.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A ring buoy assembly having automatic signal means comprising a buoyant body having

diametrically opposed and oppositely facing pockets in opposite sides thereof, a retainer ring secured at the base of each pocket, each pocket containing a light unit including a casing defining a battery chamber having a closed end and an open end, the said casing being removably secured at its closed end to said retainer ring, each of said casings having an integrally attached external barrel extending parallel to the casing with a common wall therebetween and defining a switch chamber, a coiled compression spring forming a resilient battery support and battery contact mounted against the interior of the closed end of each casing with one end of the spring forming a first conductor extending through the casing into the adjacent end of the switch chamber terminating therein as a first contact, the open end of each casing terminating in a smooth flat bearing surface substantially in the same plane as the exterior surface of the buoy body, a first annular gasket, a flanged arcuate reflector, a second annular gasket and an outwardly bowed arcuate lens secured in that order in superimposed relationship against the said bearing surface by means of a threaded connection between the lens and the casing to provide a waterproof closure of the unit, said arcuate reflector projecting into the battery chamber and having a centrally located electric lamp socket, an electric lamp secured in the said socket, and a second conductor in the common wall between the battery chamber and the switch chamber with one end extending into the battery chamber adjacent the said reflector and terminating in a spring contact biased against the reflector and with the other end thereof extending into the same end of the switch chamber as the said first conductor and terminating in a second contact spaced slightly from the said first contact, and sufficient mercury in the switch chamber for connecting and breaking the contact therein, whereby each light unit when provided with a battery in electrical contact with the said coiled compression spring and said electric lamp illuminates and marks the buoyant body in response to a predetermined position of the said body.

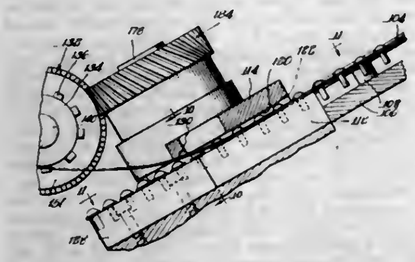
2,642,592
METHOD AND MACHINE FOR ASSEMBLING WASHERS WITH FASTENERS
Moritz H. Nielsen, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application December 11, 1948, Serial No. 64,844
31 Claims. (Cl. 10—2)



2. A machine for making unit assemblies of a fastener having a washer receiving portion and a washer, said machine comprising means for continuously feeding longitudinally a strip having washers attached in spaced relation by con-

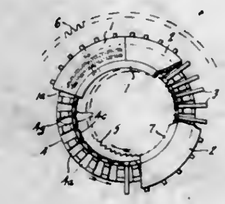
necting tabs to a longitudinally extending ribbon, means for continuously feeding a succession of fasteners along a path in which the washer receiving portions of the fasteners mesh with the washers as the strip is moving, and means to which the washer strip is fed after meshing of the fasteners with the washers for severing the connecting tabs to detach the washer and fastener unit from the strip.

2,642,593
METHOD AND MACHINE FOR ASSEMBLING WASHERS WITH FASTENERS
Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application December 11, 1948, Serial No. 64,875
15 Claims. (Cl. 10—2)



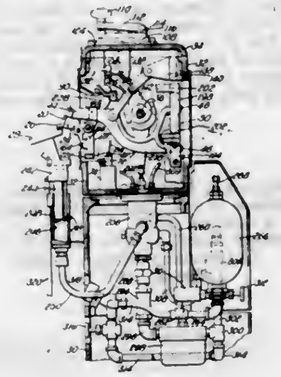
4. In a machine for making unit assemblies of a washer with a fastener having a washer receiving portion, means for continuously feeding longitudinally a strip having the washers integrally attached thereto in longitudinally spaced relation, means for assembling the fasteners with the washers of the moving strip, means to which the washer strip is fed after assembly of the fasteners therewith for severing the washers from the moving strip, and means for driving said feeding means, said assembling means, and said severing means in proper timed relation.

2,642,594
SCREW OR LIKE NICKING MACHINE
Victor Hill Fray, Auckland, New Zealand
Application September 21, 1950, Serial No. 186,017
In New Zealand November 29, 1949
6 Claims. (Cl. 10—6)



1. In a machine for removing burrs from the angular faces of countersunk headed screw blanks, a rotatable carrier having a plurality of radial slots in one end or face adapted to receive blanks, means for rotating said carrier whereby said slots are moved in a circular path, means adapted to feed blanks into said slots adjacent to one side of said circular path, means adjacent to said face of said carrier having said radial slots therein adapted to engage the shanks of blanks in said slots and retain the same therein and rotate the shanks of blanks carried therepast by said carrier, and cutter means adjacent said path during which rotation of said shanks of blanks occurs and in cutting relation to the blanks thus rotating for removing burrs projecting therefrom.

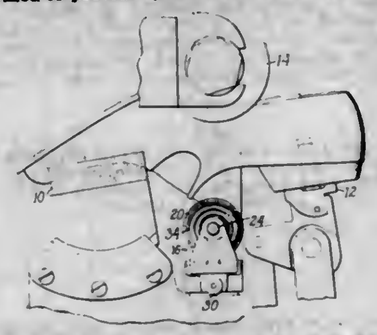
2,642,595
STITCH SEPARATING MACHINE
Corwin W. Baker, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 27, 1952, Serial No. 278,915
10 Claims. (Cl. 12—41)



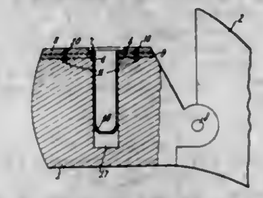
1. In a stitch separating machine, a work feeding mechanism comprising a feed dog mounted for back and forth feeding movement, a lever having an arcuate guideway, a fulcrum for the lever, means for rocking the lever through a predetermined angle about its fulcrum, a slide movable toward and from said fulcrum along the arcuate guideway of the lever, a link for transmitting feeding movements of advance and retraction from the lever to the feed dog, a pivotal connection between the feed dog and one end of the link, a pivotal connection between the slide and the opposite end of the link, and means for maintaining the slide in a position of adjustment along the arcuate guideway, said arcuate guideway having for its axis a line passing through the first mentioned pivotal connection when the lever occupies its most advanced position in the direction of feed, such arrangement serving to enable adjustments of the slide along the guideway to vary the length of stroke of the feed dog while maintaining constant the position occupied by the feed dog at the end of its feeding stroke.

2,642,596
MACHINE FOR OPERATING ON SHOES
Edwin S. Kant, Melrose, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 11, 1952, Serial No. 292,864
10 Claims. (Cl. 12—127)

1. In a machine for operating upon shoes, a shoe engaging roll, a shaft supporting said roll for axial and rotary movements, said roll being formed to provide spaced bearings for said shaft, and said shaft being reduced in diameter between said bearings to render it flexible.



2,642,597
LAST
Walter P. Field, Brockton, Mass.
Application November 7, 1947, Serial No. 784,625
2 Claims. (Cl. 12—139)



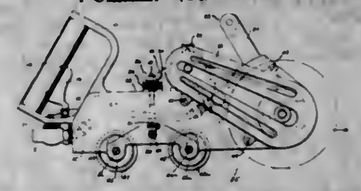
1. A facing member for a last comprising a hard top element, a cushion element beneath said top element, and a headed threaded fastener securing said elements together at the threads and having a prong extending from the inner face of said cushion element for engagement in the wood of a last to which said facing member will be applied.

2,642,598
RIGID TENSION-TRUSS BRIDGE
John W. Beretta, San Antonio, Tex.
Application December 9, 1946, Serial No. 715,119
3 Claims. (Cl. 14—18)
(Granted under Title 35, U. S. Code (1952), sec. 266)



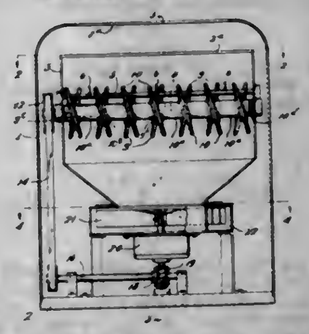
1. A truss bridge comprising tensioned upper cables anchored at the ends and supported intermediate their anchored ends on spaced towers to form an upper chord, a cross-beam mounted on each tower below the upper cables, an articulated floor system extending between said tower cross-beams, said floor system being attached to said tower cross-beams and including a plurality of pivotally connected sections, flexible vertical suspenders secured to the floor system at the points of pivotal connection therein and to the upper chord at spaced points, tensioned lower cables secured at their ends to said tower cross-beams and intermediate their ends to the floor system at the points of pivotal connection therein to prestress said floor system in compression, and flexible diagonal members connected between said spaced points and said points of pivotal connection to form a truss structure.

2,642,599
AIRPLANE CLEANING AND POLISHING MACHINE
George Habian, Manhasset, N. Y.
Application August 13, 1949, Serial No. 110,081
7 Claims. (Cl. 15—24)



4. In a device of the class described, a substantially U-shaped frame having an outwardly flared front end having side walls, a rotary brush mounted in said flared end, and having bearings in said side walls thereof, a sprayhead located within said frame and overlying the surface of said brush and adapted to discharge liquid on said brush in a direction perpendicular to the axis thereof whereby said brush is wet by said liquid before contact with the work surface, a motor having a shaft parallel to the axis of said brush supported on said frame at the rear of said brush, a belt connecting said shaft and brush, an auxiliary casing secured to said frame and enclosing said belt, means for controlling said motor and means for controlling the flow of liquid to said sprayhead both said means being mounted on said frame, and handles on said frame adjacent both said means whereby either of said means can be operated independently of the other and without the user removing his hands from the handles.

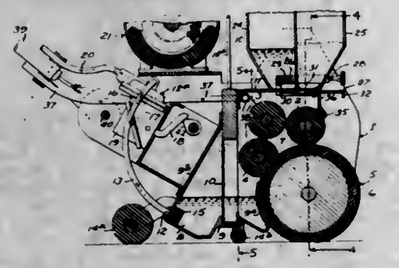
2,642,600
DUST MOP CLEANER
James A. Jones, Fayetteville, Ark.
Application May 10, 1949, Serial No. 92,270
2 Claims. (Cl. 15—91)



1. A cleaner of the character described, comprising a housing having an upper opening for insertion of a mop downwardly thereinto to be cleaned and having an outlet from the bottom thereof, spaced parallel horizontally disposed ro-

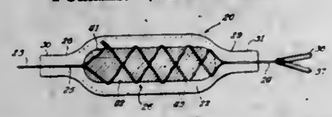
tatable shafts mounted in said housing, sets of disk-shaped beaters mounted co-axially in spaced relation and parallel to each other upon each of said shafts and inclined with respect thereto, said beaters being accessible through said opening for effecting beating engagement of the mop longitudinally and laterally thereof when introduced downwardly through said opening, the outer portions of said beaters being flexible, and means for rotating said shafts simultaneously downwardly and inwardly towards each other.

2,642,601
PORTABLE FLOOR CLEANING DEVICE WITH SPONGE COVERED CLEANING ROLLER
Ralph P. Saffioti, Valley Stream, N. Y.
Application August 31, 1951, Serial No. 244,624
7 Claims. (Cl. 15—98)



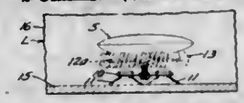
1. A portable cleaning device comprising a casing having anti-friction supports and movable over a surface to be cleaned, a sponge covered cleaning roller bearing in and protruding through the bottom of the casing and proportioned when wet to engage the surface, a squeezing roller mounted wholly within the casing in contact with the cleaning roller, means to drive the cleaning and the squeezing rollers in opposite directions with their contiguous areas moving upwardly, a pair of delivery rollers mounted in close proximity in the casing above the cleaning and squeezing rollers with one contacting the cleaning roller and the other in close surface proximity to the squeezing roller, a water chamber being formed and substantially bounded by the two delivery rollers, the squeezing roller and the cleaning roller and means to drive the delivery rollers in opposite directions with their adjacent areas moving downwardly.

2,642,602
PIPE SWAB
Harry G. Kelly, Forest Park, Ill.
Application November 9, 1949, Serial No. 126,355
4 Claims. (Cl. 15—104.16)



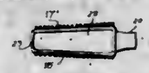
2. In a conduit swab comprising a body formed of a moisture absorbent resilient material to define an elongated shape circular in cross section, means defining a wire traversing and interlacing the inner central regions of said material so that the peripheries of the loops defined by the interlacing are substantially removed from the longitudinal axis of the body, said interlaced loops being adapted to cooperate with the natural resilient characteristic of the moisture absorbent material to provide a spring-like action in urging the material to maintain its normal shape, and said interlaced loops being collapsible toward the longitudinal axis responsive to elongation of the body beyond its normal length by external pressure applied to the body.

2,642,603
COMBINED BRUSH AND SOAP HOLDER
Henry Lawrence Mills, Minneapolis, Minn.
Application May 27, 1949, Serial No. 95,665
2 Claims. (Cl. 15—105)



1. A wire brush soap holder comprising a mounting member in the form of a stiff flat plate element, a plurality of suction cups connected with said plate for securely attaching the same to a smooth flat surface, a pair of laterally extending spaced wire clamping ears formed on an intermediate portion of said plate, an elongated wire brush having a bendable wire core having the intermediate portion thereof bent to form a generally annular soap-engaging and receiving member with an open central portion to engage only an intermediate portion of a cake of soap supported thereon, said wire core having end portions bent outwardly from the annular portion thereof and being received by said ears to be securely clamped in anchoring position on said plate thereby.

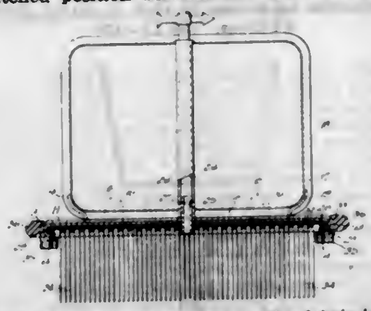
2,642,604
MASSAGING ATTACHMENT FOR TOOTHBRUSHES
Amerigo J. Ferrari, Stapleton, N. Y.
Application May 17, 1947, Serial No. 748,744
1 Claim. (Cl. 15—110)



In a toothbrush having an elongated handle with a head member at one end thereof and bristles extended from one face of the head member, a base projected from the face of the head member opposed to the face from which the bristles extend, a continuous band of resilient material engaged about the periphery of said base, and massaging teeth extended laterally outward from the outer faces of the opposed sides of said band, said base being slightly smaller in peripheral measurement than the head member and extended concentrically from the head member so that edge portions of the head member project beyond the edges of said base forming shoulders against which the adjacent edges of said band are abutted, said projecting edge portions of said head member being of a width equal to the thickness of said band so that the outer periphery of said band will be flush with the outer periphery of said head.

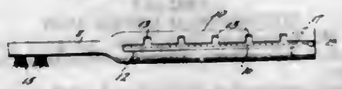
2,642,605
FLOOR WAXER
Major Ray, Wellston, Mo.
Application November 21, 1949, Serial No. 126,647
2 Claims. (Cl. 15—131)

1. In a floor waxer having a liquid wax container having flanges at the ends thereof and a supporting plate therefor, said plate having a central opening and the front and back edge portions thereof curved downwardly and inwardly to provide spaced guideways open at the ends thereof, a supporting head having a central opening and spaced fingers along opposed edges thereof slidably mountable in the guideways, a liquid wax spreader having a fabric body provided with cylindrical edges embraced by the spaced fingers to hold the fabric body in a stretched position between the spaced fingers,



wax spreading cords secured to the fabric body, ears carried by the plate upon which the front and back walls of the container rest, flexibly resilient ears on the plate for snap-on engagement with the end flanges of the container, and a valve for controlling the discharge of liquid wax from the container to the spreader cords and the lower end of the valve projecting below the lower wall of the container and serving as a pilot to enter the central plate and supporting head openings.

2,642,606
FOUNTAIN TOOTHBRUSH
Theodora Theresa Aschenbach, Washington, D. C.
Application April 9, 1948, Serial No. 20,048
4 Claims. (Cl. 15—137)



3. In a fountain toothbrush, a hollow elongated body, a container coaxial with the body and rotatable therein, a feed plug fitting in the rear end of the container and slidable therein, the hollow body having a slot extending lengthwise thereof with notches extending laterally from the slot, a radial projection on the plug movable along said slot and adapted to engage in one of said notches upon rotary movement of the container, and a cutting edge movable with the projection to sever the container upon movement of the plug lengthwise of the toothbrush.

2,642,607
CHARGE EJECTING NAIL POLISH APPLICATOR
Delbert J. Bozzalla, Los Angeles, Calif.
Application March 6, 1950, Serial No. 147,970
2 Claims. (Cl. 15—137)

1. A charge ejecting applicator for viscous liquids comprising: a barrel providing a reservoir for the liquid; a head closing one end of the barrel and having a passage of relatively small diameter, with plunger guides at the inner end of the passage spaced to define passages providing communication between the reservoir and passage; a plunger working in said passage and guides to occupy a retracted position wherein the plunger clears the inner end of the passage to permit liquid from the reservoir to enter the passage through said passages, and an advanced position wherein the plunger enters and closes off the passage from the reservoir so as to eject the charge of liquid from the outer end of the passage; a manually operable actuator mounted on said head for reciprocating movement; means operatively connecting said plunger to said actuator for movement by the latter to retracted position; a spring urging the actuator and plunger as a unit to move the plunger to its advanced position; said head having a socket of relatively large, uniform diameter co-axially re-

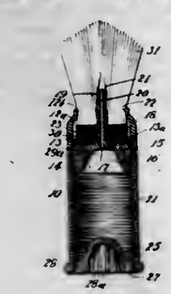


lated to the outer end of said passage; a tube of uniform diameter frictionally fitting in said sockets; bristles in said tube and projecting from the outer end thereof in brush formation; a stop collar of uniform diameter fitted in the outer end portion only of said tube around said bristles; and a delivery tube communicating with the outer end of said passage and being forced into said bristles from the inner end of the first said tube to co-act with said stop collar in constricting the bristles between the inner end of the stop collar and the forward end of the delivery tube so as to set up a permanent restriction to the flow of air through the brush in order to enable a partial vacuum to be temporarily created in the passage when the plunger is moved to said retracted position, for the automatic filling of the passage with liquid from the reservoir under the action of said vacuum.

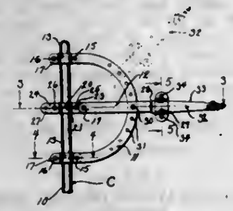
2,642,608
COMBINED SHAVING BRUSH AND SOAP HOLDER
Albert E. Hartmann, New York, N. Y.
Application September 20, 1947, Serial No. 775,195
2 Claims. (Cl. 15—137)

1. In a combined shaving brush and holder, the combination of a shaving brush having one end of each bristle encased in a hardened base having one end of each bristle encased in a hardened base having a flat surface, a brush holding cap having an internal diameter of generally the outer diameter of said base, and having internal screw-threads at one end, and at the other end an inward flange of less internal diameter than the internal diameter of the screwthreaded end of said cap encompassing the brush bristles ex-

tending out of the cap in proximity to said base, and a combining member having an external cylindrical surface with external screwthreads extending the length of said cylindrical surface, the internal screwthreads of said cap engaging a portion of said external screwthreads of said combining member leaving the remainder of said external screwthreads of said combining member unengaged by said internal screwthreads to allow freedom of movement of said cap on said combining member, said combining member having a flat surface abutting against said flat surface of said base and facing said inward flange and spaced from said inward flange to the extent of substantially the height of the base of the brush, said combining member being capable of being screwed into said cap to secure the base of the brush between said flat surface of said combining member and said inward flange, whereby said inward flange of the cap is adapted to press against said base, and said base against said surface, to hold the brush from turning and to provide a seal against entrance of water, and on the separation of said combining member from said cap, a new brush may be substituted.

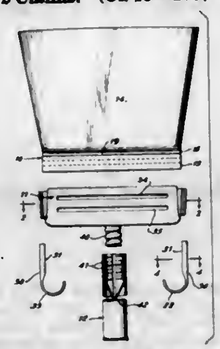


2,642,609
ADJUSTABLE HANDLE MOUNTING FOR WINDOW-CLEANING DEVICES
Joseph J. Hruska, Milwaukee, Wis.
Application November 20, 1950, Serial No. 196,675
1 Claim. (Cl. 15—144)



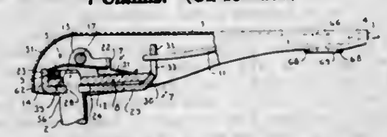
A device for facilitating the cleaning of the outside of windows from the inside of a room comprising a smooth uniform elongated handle, a semi-circular guide and brace strip projecting laterally from one side of the handle adjacent to the outer end thereof, means detachably clamping the terminals of the strip to the handle, a split clamping cuff detachably secured to the handle at a point equidistant between the terminals of the strip, an arm pivotally and detachably secured to the cuff for movement over the guide and brace strip, means securing the arm in a selected adjusted position to the strip, said arm projecting beyond the strip, a window cleaning element, and means detachably securing the window cleaning element to the outer end of the arm.

2,642,610
BROOM HEAD AND MEANS FOR REMOVABLY ATTACHING IT TO A HANDLE
Karl Erik, Sheffield, Pa., assignor to G. G. Greene Manufacturing Corporation, Warren, Pa., a corporation of Pennsylvania
Application September 23, 1949, Serial No. 117,361
2 Claims. (Cl. 15—176)



1. An article of the class described, comprising a base having flexible working elements secured therein, a holder having opposed sides which are relatively movable and spaced apart to receive said base between them, and having their ends turned in opposite directions and formed with divergent edges, and channel-shaped wedge members slidable on said oppositely turned ends and cooperative with their divergent edges to force the sides of the holder toward one another and into clamping engagement with the base in the holder.

2,642,611
WINDSHIELD WIPER ARM
John W. Anderson, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Original application November 1, 1945, Serial No. 625,972, now Patent No. 2,528,678, dated November 7, 1950. Divided and this application February 16, 1950, Serial No. 144,481
7 Claims. (Cl. 15—250)



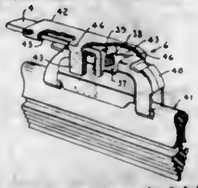
1. A windshield wiper arm channel part provided with securing means, a flexible member having a portion seated in said channel, an arm member overlapping said portion and extending lengthwise beyond the outer end of the channel part and providing a support for a wiper blade, an element engaging said arm member, means for holding the members and element against movement in one direction with respect to each other, and said securing means and said element being constructed and arranged for engagement to permanently hold the members and element in the channel part.

2,642,612
WINDSHIELD WIPER
Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Original application January 5, 1946, Serial No. 639,384, now Patent No. 2,550,095, dated April 24, 1951. Divided and this application May 5, 1950, Serial No. 160,240
10 Claims. (Cl. 15—250)



1. A supporting arm provided with detent means, attaching means to which cleaner means may be attached, said attaching means being provided with positioning means, a link interposed between said attaching means and said arm, said link being provided with detent means, means passing through said arm, said attaching means and said link and constructed and arranged in a manner whereby the detent means on said link may be caused to engage said positioning means on said attaching means to permit the link and attaching means to freely pivot with respect to said arm and when said link is removed, the positioning means on said attaching means may be caused to engage the detent means on said arm to hold said attaching means against pivotal movement with respect to said arm.

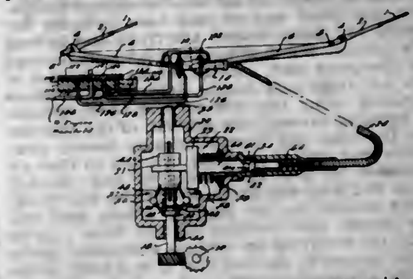
2,642,613
WINDSHIELD WIPER AND ARM CONNECTION
Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Original application March 23, 1950, Serial No. 151,503. Divided and this application April 21, 1951, Serial No. 222,269
4 Claims. (Cl. 15—250)
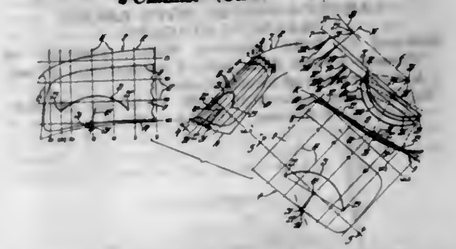


1. An outer section of a windshield wiper arm provided with an L-shaped integral portion, said portion having an opening to receive an entering part carried by a blade, a channel member having a base wall and side walls, and each of said side walls having an L-shaped groove portion receiving and clamping against an edge of said integral portion to permanently lock the channel member to the arm section.

2,642,614
WINDSHIELD WIPER MECHANISM
Emil E. Sivacek, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application August 16, 1947, Serial No. 768,985
15 Claims. (Cl. 15—253)

1. In a mechanism of the character described, a rotating part adapted to be driven by a source of power, a reciprocal member driven by said part and adapted to drive a reciprocating element, a clutch mechanism adapted to declutch said part from said source, a fluid pressure actuator for controlling the declutching of said mechanism, valve means controlling said actuator and actuatable by said part at a desired reciprocal position of said member, and means rendering said valve means inoperable to actuate said actuator at all other reciprocal positions of said member whereby the element may be parked at a desired position.



2,642,615
CURVED WINDSHIELD AND WIPER
Raymond O. Doss, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 1, 1948, Serial No. 52,308
3 Claims. (Cl. 15—255)



1. The combination with an irregularly curved windshield having a convex outer surface, of a windshield wiper assembly having a drive shaft axis and a wiper arm, said wiper arm having an end describing a non-planar path curve on said windshield during the oscillation of said arm about said axis, said axis being mounted perpendicular to a plane plurally intersecting said non-planar path curve and whose maximum displacement from said curve is a minimum distance as compared to other planes so intersecting said curve.

2,642,616
REVERSE AIR FLOW CONVERTIBLE HOUSEHOLD VACUUM CLEANER
Archie S. Browne, Detroit, Mich.
Application May 7, 1949, Serial No. 92,012
3 Claims. (Cl. 15—337)



1. In a small light-weight convertible vacuum cleaner, the combination of, a filter enclosing body cylinder having a discharge port opening laterally through the sidewall thereof near

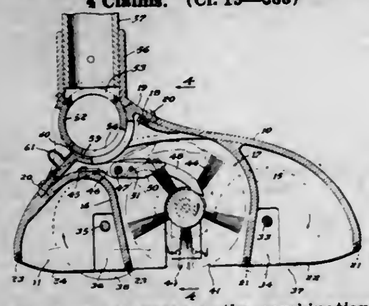
the front end, air flow obstructing wall means on the front end of said body cylinder, a dirt collecting nozzle projecting frontwardly from said wall means, motorized air impeller means mounted in the front end of said body cylinder for drawing air along toward the front end in said body cylinder and discharging it laterally through said discharge port, conduit means connected to draw air from said nozzle, said conduit means extending along the side of said body cylinder and opening through the sidewall of the cylinder near the rear end thereof, closure means closing the rear end of the body cylinder so that air is caused to flow rearwardly in said conduit means and then into the body cylinder and frontwardly toward the air impeller means, said closure means also forming an air hose plug-in socket for receiving an air hose connector therein, and means in the rear end of said body cylinder for cooperating with such an air hose connector for intercepting the air flow circuit or path from said nozzle and conduit means and to establish the connection of said plugged-in air hose with the air impeller means for operation as a tank type vacuum cleaner, and further characterized by said conduit means comprising a pair of air flow conduits suitably spaced apart to also serve as a floor rest to support said body cylinder in a horizontally disposed position when operating as a tank type vacuum cleaner.

2,642,617

CARPET SWEEPER WITH BRUSH CLEANING FINGERS

Howard C. Lilly, Sharon, Mass., assignor to Masury-Young Company, Charlestown, Mass., a corporation of Massachusetts

Application October 20, 1947, Serial No. 780,892
4 Claims. (Cl. 15—388)



1. In a carpet sweeper, the combination of a housing, a brush rotatably mounted therein and having a cylindrical body and a plurality of tufts extending radially outward therefrom, a common pivot shaft in parallel spaced relation to said brush, two series of fingers pivotally mounted on said shaft and extending into the brush with one series of fingers in engagement adjacent their ends with the body of the brush and the ends of the other series of fingers in engagement with the tufts of the brush, a shaft lying parallel to said common shaft and extending through said two series of fingers for locking the series of fingers together to act as a unit in pivoting on their common shaft, whereby upon rotation of the brush in a direction toward the ends of the fingers fibrous material collected on the brush will be removed therefrom and led outwardly of the brush and upon movement in a direction away from the ends of the fingers said two series of fingers will rotate as a unit to a position outside the path of said rotating brush.

2,642,618

FOWL SCALDING MACHINE

Zygment Stubelek, Southampton, N. Y.

Application May 5, 1952, Serial No. 286,785
7 Claims. (Cl. 17—11.2)



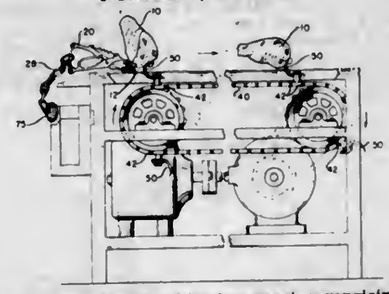
1. A device for scalding fowl comprising an elongated container for liquid having an open top, a reticulated receptacle in said container and being of less length and width than said container, supporting means connected to said receptacle and pivotally connected to a bottom portion of said container, and power operated means connected to a top portion of said receptacle for oscillating the same.

2,642,619

SKINNING MACHINE

Frederic J. Coad, deceased, late of Des Moines, Iowa, by Mrs. Frederic J. Coad, administratrix, Des Moines, Iowa, assignor, by mesne assignments, to Swift & Company, Chicago, Ill., a corporation of Illinois

Original applications July 18, 1944, Serial No. 545,474, and August 9, 1948, Serial No. 43,286. Divided and this application September 28, 1951, Serial No. 249,371
6 Claims. (Cl. 17—21)



1. A machine for skinning meat comprising a frame structure, an endless conveyor mounted on the frame structure, means fixed on said conveyor for passing a meat piece therewith, and stationary clamping means mounted on said frame structure for holding an edge of skin on said meat piece against forward movement with said conveyor, said conveyor means permitting rotation of the meat piece about an axis below said edge of skin to turn the meat piece as the conveyor travels and thus remove the skin.

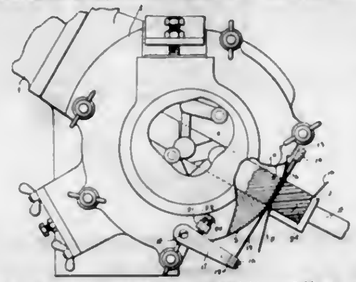
2,642,620

METHOD OF AND APPARATUS FOR DEFINING PLASTIC MASSES

Clarence W. Vogt, Norwalk, Conn.

Application February 6, 1950, Serial No. 142,594
5 Claims. (Cl. 18—4)

2. Apparatus for producing plastic masses which comprises a molding cavity, a source of supply of plastic material under pressure, a piston member mounted to control the amount of plastic material in said molding cavity and to expel a measured and formed mass of plastic material from said molding cavity, means for separating said mass from said molding cavity, a member movable adjacent said separating means and adapted to carry an enwrapment for



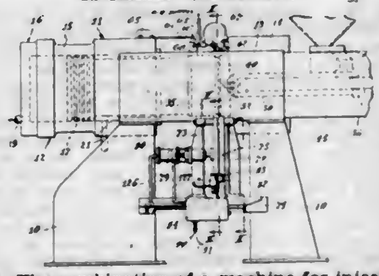
receiving said mass from said molding cavity, and means for defining subdivisions in said mass as it is separated from said molding cavity and received in said enwrapment.

2,642,621

APPARATUS AND METHOD FOR PRODUCING DISK PHONOGRAPH RECORDS

Ivan J. Amo, North Plainfield, N. J., assignor to M & W Company, Inc., Newark, N. J., a corporation of New Jersey

Application December 28, 1950, Serial No. 203,065
12 Claims. (Cl. 18—5.3)



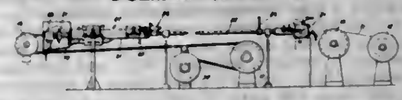
1. The combination of a machine for injection molding disc phonograph records comprising a fixed die and a movable die adapted to cooperate with each other to form a mold cavity in which one of said records may be formed, said fixed die having a material feed and sprue opening extending therethrough and centrally communicating with said mold cavity when formed, a reciprocable clamping ram, said movable die connected to and reciprocable with said clamping ram, an injection chamber, an injection plunger reciprocable in said injection chamber for feeding material from which said record is to be made through said feed and sprue opening and into said mold cavity when formed, and a ram rod connected to said clamping ram and being reciprocable with said clamping ram, said ram rod also being reciprocable relative to said clamping ram in a path substantially centrally through said mold cavity when formed and also said material feed and sprue opening to make a central opening through said record in said mold cavity and to force the sprue material into the discharge opening of said injection chamber; a cooling clamp adjacent the machine, a chute between the machine and cooling clamp, means for discharging said record from said machine into said chute and clamp and means for maintaining the cooling clamp under pressure cooling the record supported therebetween.

2,642,622

CONTINUOUS VULCANIZING APPARATUS

David D. Jones, Weston, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 6, 1946, Serial No. 660,942
4 Claims. (Cl. 18—6)



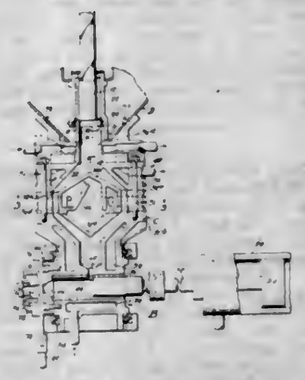
1. In a continuous vulcanizing apparatus, means for advancing a conductor having a vulcanizable cover through the apparatus, a tubular vulcanizing chamber having an exit for permitting such an advancing conductor to be continuously withdrawn from the vulcanizing chamber, means for introducing steam under high pressure into the vulcanizing chamber to vulcanize the cover, an elongated open cylinder having a body portion mounted at its entrance end in communication with and in alignment with the exit of the vulcanizing chamber, said cylinder serving to hold a large quantity of water, a supply pipe for directing cold water into the cylinder near the entrance end thereof under a pressure substantially equal to that of the steam in the vulcanizing chamber to seal the steam in the vulcanizing chamber, a cylindrical baffle positioned concentrically within the cylinder for separating the entrance passage in the cylinder from the supply pipe, and an elongated sealing unit mounted at the exit end of the cylinder for restricting the flow of water from the cylinder to keep the water in the cylinder substantially static and to maintain the water in the cooling cylinder under a static pressure substantially equal to its initial pressure, said sealing unit including an elongated tube, a plurality of baffles having flow-restricting orifices therein and means for spacing the baffles in the tube.

2,642,623

PLASTICIZING MACHINE

George S. Bohannon, Colorado Springs, Colo., assignor to Crown Machine and Tool Company, Inc., Fort Worth, Tex., a corporation of Texas

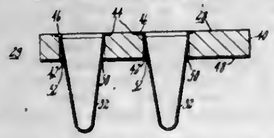
Application June 4, 1952, Serial No. 291,657
6 Claims. (Cl. 18—30)



1. In a machine for molding plastics, an injection cylinder, a piston therefor, and means for moving the piston through an injection stroke, a container for solids, and a preplasticizing unit

between the container and the injection cylinder, said unit including a passage member defining a feed passage adapted to receive solids from the container, a feed plunger reciprocable in said feed passage, means for reciprocating the feed plunger, and means for plasticizing the solids delivered through said feed passage by said feed plunger including a transversely extending spreader having a laterally extending face obtusely opposed to material flowing along the axis of the feed passage, and a housing defining, with said spreader, a substantially unobstructed passage extending radially from the path of the plunger to the edge of the spreader face, said housing and spreader having opposed walls spaced apart and defining a space increasing outwardly in cross-sectional area and at all points greater in cross-section than the feed passage, means for heating the walls of the said space sufficiently substantially to complete the plasticization of the material by the time that it reaches the outer edge of the spreader face, said housing and spreader having parts defining a delivery passage extending from the outer edge of the spreader face to a restricted delivery opening communicating with the injection cylinder intermediate the ends of the stroke of the piston in said cylinder.

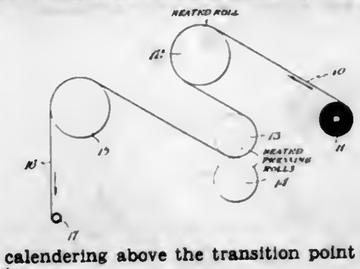
2,642,624
MOLD FOR FOAMED LATEX
John T. Marvin, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 18, 1950, Serial No. 156,677
1 Claim. (Cl. 18—39)



A mold for foamed latex comprising in combination; a base portion and a cover portion therefor, at least one of said portions including a plurality of cores set therein and extending from the outside of said mold portion therethrough, each of said cores including a flange abutting the outside surface of said mold portion for preventing further inward movement thereof with respect to the said mold portion, and an apertured plate positioned at the mold side of said mold portion and firmly pressed against the surface of said mold portion and firmly and simultaneously gripping all said cores for locking the cores in place with respect to said mold portion and for providing the mold surface.

2,642,625
PROCESS FOR PRODUCING THIN POLYTETRAHALOETHYLENE FILMS
David B. Peck, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Application June 23, 1950, Serial No. 169,797
3 Claims. (Cl. 18—47.5)

1. A process for producing polytetrafluoroethylene films containing ceramic particles substantially less than 1 mil. in thickness which comprises stretching a film of said resin containing ceramic particles of about 2 mils. thickness in a single direction to a length of at least about twice the original length in said direction and passing said stretched film through high pressure calender rolls whose axes are perpendicular to the direction of said stretching and which are maintained at an ambient temperature sufficient to maintain the resin film at the point



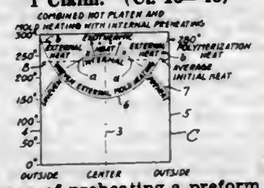
of calendering above the transition point of the resin.

2,642,626
TREATMENT OF RUBBER STOCK
William James Yurgen, Fort Wayne, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 14, 1950, Serial No. 184,770
8 Claims. (Cl. 18—48)

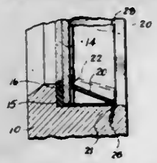


1. The method which comprises freezing shaped pieces of unvulcanized natural rubber stock so compounded with filler and softener as to have a durometer hardness (Shore scale "A") of not over 55, said pieces although initially appearing firm exhibiting the undesired properties of rapid deformation and of rapid consolidation of contacting pieces upon standing under atmospheric conditions, at a temperature of not over —50° C., and thawing the frozen stock, the resulting thawed stock manifesting greatly improved dimensional stability, resistance to deformation upon standing under atmospheric conditions, and resistance to consolidation between contacting surfaces of stock upon so standing as compared to like stock which has not been so frozen and thawed.

2,642,627
METHOD OF HEATING THE INTERIOR OF PLASTIC PREFORMS
Julius W. Mann and George F. Russell, Tacoma, Wash.
Application October 27, 1950, Serial No. 192,416
1 Claim. (Cl. 18—48)


COMBINED HOT PLATEN AND HEATING WITH INTERNAL PREHEATING
TEMPERATURE
EXTERNAL HEAT
INTERNAL HEAT
POLYMERIZATION HEAT
INTERNAL HEAT
INTERNAL POLYMERIZATION HEAT
INTERNAL POLYMERIZATION HEAT
INTERNAL POLYMERIZATION

of the said opening being formed with shoulders against which side faces of edge portions of the window pane are seated and with narrow and relatively deep channels parallel with the shoulders and spaced outwardly from the pane and extending into the sash members at an incline toward the plane of the pane, and pane securing strips applied within the sash opening along the edge portions of the pane, each strip comprising a substantially flat rigid bar disposed at an angle to the pane and along one



longitudinal edge bearing against a surface of the pane in opposed relationship to the corresponding pane seating shoulder and there being a laterally turned flange along the other longitudinal edge of the bar removably applied within the corresponding channel to an extent that effects the wedging of the bar against the pane and causes the flange thereon to be tilted transversely in the channel and bind against opposite side walls of the channel to hold the bar against the pane and the flange against accidental release from the channel.

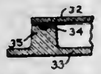
2,642,633

SOFT GLASS AND COMPOSITE ARTICLE

Robert H. Dalton, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Original application March 4, 1946, Serial No. 651,818. Divided and this application February 1, 1950, Serial No. 141,831

20 Claims. (Cl. 20—56.5)



4. A transparent glass composition which consists of approximately 75% PbO, 11% B_2O_3, 11% Al_2O_3, and 3% SiO_2.

8. A double window pane comprising two sheets of soda lime glass, the faces of which are in opposed relationship and are spaced from each other by a plurality of upstanding glass ribs which form a part of one sheet and are joined to the second sheet by an integral layer of soft glass consisting of approximately 75% PbO, 11% B_2O_3, 11% Al_2O_3 and 3% SiO_2, the expansion coefficient of the soda lime glass being up to 15×10^{-7} per °C. higher than that of the soft glass between 0° and 300° C.

2,642,634

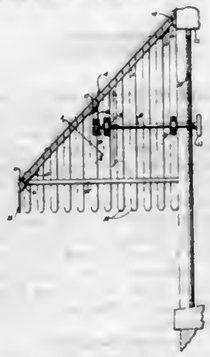
ADJUSTABLE AWNING

John D. Recob, Springfield, Ohio, assignor of one-half to Walter Ray Ross, Springfield, Ohio

Application September 6, 1949, Serial No. 114,243

3 Claims. (Cl. 20—57.5)

1. An awning for mounting on a wall comprising; a stationary outer series of laterally spaced slats, means for supporting said slats in a common plane extending downwardly and outwardly from said wall in the direction of the length of said slats, said means including upper and lower frame members extending transversely of said slats and positioned at the longitudinal extremities of said slats, and an additional series of stationary slats depending from said outer series of laterally spaced slats around the front and side peripheral edges thereof, an inner series of laterally spaced slats extending lengthwise of said outer slats, means for mounting said inner slats entirely within said outer and additional series of slats comprising grooves in each of said frame members extending transversely of said outer slats, the ends of said inner series of slats



being slidably received in said grooves, said ends lying in flush engagement with said grooves so as to allow for only sliding movement of said inner series of slats, and means for sliding said inner series of slats in said grooves in a plane parallel to and transversely of said outer slats, said last means including an actuating device mounted on said additional series of slats and operatively connected to said inner slats at a point positioned intermediately of said upper and lower frame members.

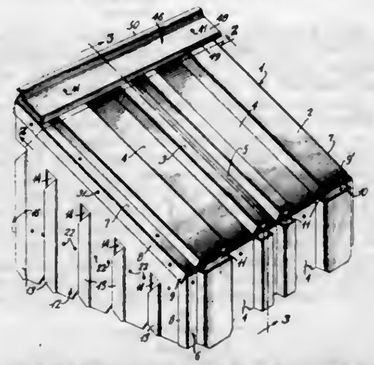
2,642,635

METAL AWNING CONSTRUCTION

John J. Hutton, Ashland, Ky.

Application October 23, 1950, Serial No. 191,601

3 Claims. (Cl. 20—57.5)



1. Metal awning comprising an integral roof and front panel, formed with parallel alternating elevations and valleys of rectangular cross-section, said elevations being cut through transversely to the plane of the bottoms of the valleys, said front panel being bent down relative to said roof on a line at the base of the cut forming

open louvers between said roof and front panel, a rectangular three-sided frame having front and side members, said frame being of channel cross-section with its web on the outside, the web of the front member contacting the bottoms of the valleys of said front panel being secured thereto, and bridging the troughs of the inner sides of the elevations of said front panel in rain baffling relation to said louvers.

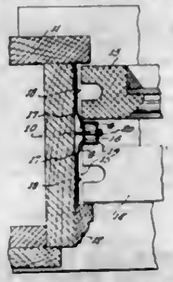
2,642,636

ADJUSTABLE WEATHERSTRIP FOR WINDOWS

Ernest C. Miles, Dallas, Tex.

Application December 5, 1951, Serial No. 259,952

5 Claims. (Cl. 20—69)



1. In a window frame having a jamb, a weatherstrip for a double hung, sliding sash type window, a metal strip substantially equal in width to the space between the outer and inner sash frame stops of said window frame, a longitudinal prominence coextensively formed in the mid-section of said strip, portions of the latter on opposite sides of said prominence extending angularly toward the face of said jamb, thence outwardly toward said sash frame stops in flush engagement with said jamb face and form intermediate said prominence and the outer edges of said strip opposed, longitudinally extending fulcrum bends in adjacent parallelism with said prominence, a channel shaped parting bead having flanges engaging the sides of said prominence throughout its length and means for securing said strip and said parting bead to said jamb, said means being effective to impose pressure on said strip at its mid-section to move the outer edges of said strip through the medium of said fulcrum bends.

2,642,637

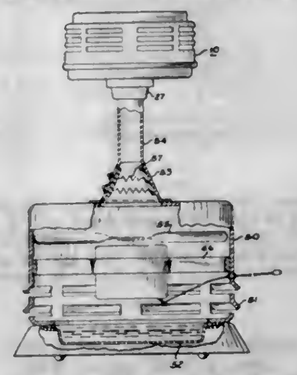
LIQUID VAPORIZER

Vincenzo James Lee, Cleveland, Ohio

Application January 17, 1951, Serial No. 206,469

1 Claim. (Cl. 21—126)

A liquid vaporizer, comprising in combination, a hollow case member having air inlet louvers proximate the lower portion thereof and a bonnet in the upper portion thereof including an air vent stack, a first reservoir for a volatile liquid located within the case member having its upper edge proximate the said inlet louvers, heating means located in the case member within the said bonnet, a fan mounted within the case member between the inlet louvers and the bonnet whereby air is drawn through the louvers and into the case over the first reservoir and blown out of the case through the bonnet and stack upon operation of the said fan, and a hollow housing mounted on the said stack, the said housing comprising a cover part and a complementary base part, the said cover part having an inlet aperture adapted to engage the upper end of said stack and receive warm air therefrom, the said base part having a plurality of outlet apertures in the wall thereof and a second reservoir for a volatile liquid, comprising a sponge, nested



within the said hollow housing and substantially filling the same, the heating means operating to elevate the temperature of the air after it has passed over the first reservoir, to increase its vapor holding capacity before passage into the housing containing the second reservoir.

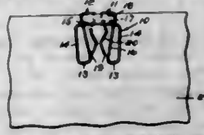
2,642,638

CLIP FOR SHEET MATERIAL

Donald C. Larrabee, Yarmouth, Maine

Application November 29, 1950, Serial No. 198,134

9 Claims. (Cl. 24—66)



1. A clip for sheet material, said clip comprising a first part, at least one second part, and an integral connection between said parts establishing a closed end of said clip, said parts and said connection constituting a continuous strip of resilient stock, each of said parts including spaced interconnected arms engageable with a sheet surface, and one of said arms of said second part terminating in a sheet piercing point disposed substantially in the plane of one of said parts and shielded by one of the portions of one of said parts, said connection being in a plane common to both parts.

2,642,639

FLANGE TENSIONING AND JOINING DEVICE FOR STRAP ENDS

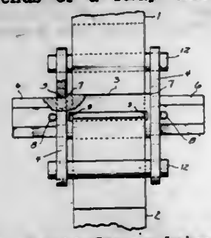
William A. Meighan and Tirey L. Hume, Portland, Oreg.

Application September 15, 1950, Serial No. 184,946

9 Claims. (Cl. 24—68)

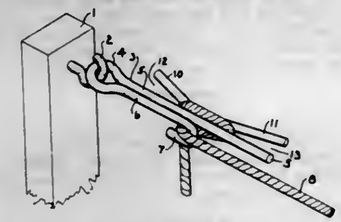
1. A single spool device for locking the ends of a flexible strap in overlying relationship and applying tension thereto, comprising an elongate mandrel carrying a pair of spaced flanges adjacent the ends thereof, each end of said mandrel defining a non-circular portion and each of said flanges being pierced by a complementary non-

circular aperture which slidably encompasses the corresponding non-circular portion of the mandrel, a slotted keyway in said mandrel for threading both ends of a strap therethrough, the



peripheries of said flanges being pierced by a plurality of aligned keeper holes, and a complementary keeper pin, a pair of aligned keeper holes removably retaining said keeper pin when the latter is arranged in said pair of keeper holes.

2,642,640
WIRE FASTENER FOR CORDS
Glenn E. Mills, Albion, Mich.
Application December 29, 1950, Serial No. 203,457
1 Claim. (Cl. 24—130)



A fastener for clotheslines and the like, which consists of a substantially cotter pin shaped body member formed from heavy wire rod with a substantially ring-shaped eye at one end and a pair of free ended substantially parallel legs extending side by side therefrom, one of said legs having its end turned down and back toward said eye to form an open hook through which the line to be fastened can pass, said hook being in a plane substantially perpendicular to the plane of said eye, said second leg extending beyond said hook and having a second heavy wire rod member rigidly fastened at its midportion to the side of said second leg opposite to said leg having said hook with the fastened portion of said second rod member in transverse alinement with said hook, said second heavy wire rod member being substantially in the plane of said eye, the ends of said second member being extended outwardly from said second leg and in the plane thereof to form open ended V-notches lying in a plane perpendicular to the plane of said hook and into which said line can be pulled and releasably anchored.

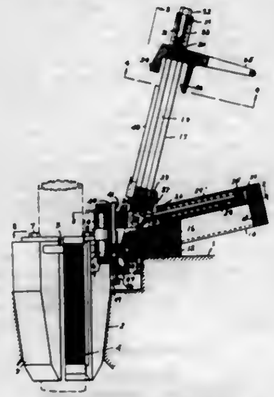
2,642,641
BUCKLE
Harold S. van Buren, Jr., Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 8, 1951, Serial No. 260,662
3 Claims. (Cl. 24—198)

1. A molded plastic buckle frame comprising, a thin flexible central portion having opposite strap engaging ends, marginal side portions integral with opposite sides of said central portion and strap receiving slots formed one adjacent each of said ends by pairs of arms extending towards each other substantially parallel to the strap engaging ends in spaced relation thereto, the adjoining ends of the arms in each pair being spaced from each other to provide entrance slots for entry of a strap into the strap receiving



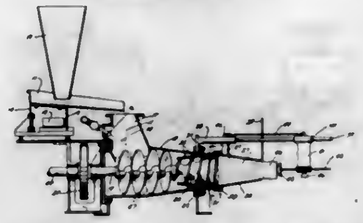
slots, said arms each being integrally connected with the marginal side portions, said arms and said marginal side portions being substantially thicker than the flexible central portion, the arms of each pair being tiltable away from each other through bending of the flexible central portion laterally of the strap receiving slots to increase the width of the entrance slots upon insertion of a strap therein to facilitate entry of a strap into the strap receiving slots.

2,642,642
ROTARY SLIP ELEVATOR
Cecil Ware, Houston, Tex.
Application May 3, 1949, Serial No. 91,168
7 Claims. (Cl. 24—263)



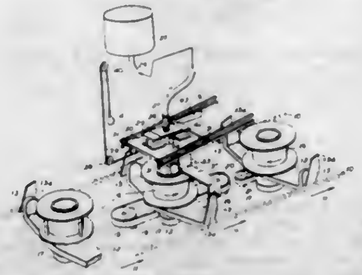
1. A device for handling a rotary slip comprising, a supporting frame adapted to be mounted on a rotary table, a beam upstanding from the frame, an elevator block movable along the beam, a slip composed of segments, opposed arcuate yokes which are hinged together and which support the slip segments, a link connecting the yokes to the block, said yokes having extensions at their pivoted ends, wedge means connected with said link and positioned to wedge between said extensions to hold the slip segments in closed position, said elevator block being movable upwardly on the beam, upon elevation of the slip, to move the beam toward vertical position, a bumper on the beam positioned to release the wedge means from between the extensions, upon elevation of the slip, to allow the slip segments to open.

2,642,643
METHOD AND MEANS FOR PREPARING CERAMIC CLAYS
Harley H. Montague, Denver, Colo., assignor to American Clay Works & Supply Co., Denver, Colo., a corporation of Colorado
Application September 29, 1950, Serial No. 187,585
6 Claims. (Cl. 25—14)



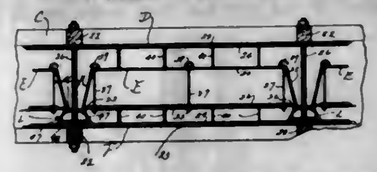
2. A clay-moistening apparatus comprising: an open-ended, flat-bottomed vibrating pan; a feed hopper feeding dry, ground clay into said pan; means for imparting a rapid vibration to said pan to cause the clay to spread in a uniform, thin layer over the flat bottom of said pan, and to cause the thin, vibrating layer of clay to flow from the flat bottom at the open end of said pan in a thin, continuous, falling sheet; and a water nozzle positioned below said pan opposite one flat side of the sheet of falling clay, said nozzle acting to spray a fan-like, atomized sheet of water across the entire width of the path of the sheet of falling clay.

2,642,644
POTTERY CASTING MACHINE
Philip Ivor Robinson, Derby, England
Application September 20, 1951, Serial No. 247,409
7 Claims. (Cl. 25—29)



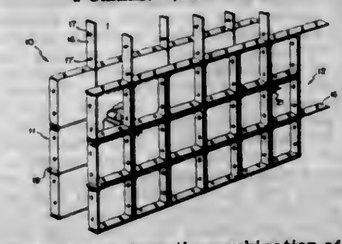
1. In a casting machine for pottery articles, a pouring station comprising a travelling conveyor, mould carriers supported on said conveyor, inclined ramp rails mounted above said conveyor, a carriage mounted in said ramp rails, a slip pouring nozzle mounted on said carriage, manually operated control means for opening and closing the pouring nozzle, and complemental means on each mould carrier and the carriage engageable to move the carriage along with the conveyor so that the pouring nozzle pours slip into the mould in the carrier so long as the control means allows and until the action of the ramp rails effects disengagement of the means of the carriage from the means of the carrier whereupon the carriage moves back down the ramp rails to its original position.

2,642,645
FORM FOR CONCRETE CONSTRUCTIONS
Charles A. Commet, Bowdle, S. Dak., and Chester F. Merriman, New York, N. Y.
Application September 13, 1948, Serial No. 48,986
9 Claims. (Cl. 25—131)



2. In a form structure for the fabrication of concrete walls, the combination of a removable weather side wall form, a removable side wall form in spaced relation with respect to the weather side wall form, both of said wall forms extending thruout the height of the concrete wall to be formed, a plurality of relatively end spaced individual compartment providing core forms located in the space between the removable weather and room side wall forms and in spaced relation with the latter and extending thruout the height of the wall to be formed, removable means in the spaces between said core forms and the weather side and room side wall forms for holding the proper spacing thereof, removable forms located at the room side form wall covering the spaces between the spaced core forms at the ends thereof, and tie means extending thru the spaces between the end spaced core forms and removably anchored to said weather side and room side wall forms.

2,642,646
CONCRETE BUILDING FORM
J. B. Johnston, deceased, late of Fort Worth, Tex., by Ida Mae Johnston, executrix, Fort Worth, Tex.
Application March 3, 1950, Serial No. 147,552
4 Claims. (Cl. 25—131)

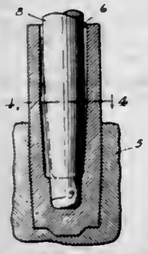


1. In a concrete form the combination of panels arranged in horizontal and vertical rows, vertical and horizontal flat stiffener bars detachably secured to and between the edges of adjacent said panels, said bars being substantially as long as two or more said panel sides, said bars being arranged perpendicularly with respect to each other with the ends of certain of said horizontal bars located intermediate the ends of adjacent said vertical bars.

2,642,647
METHOD OF MAKING SHELL FORGINGS
Patrick J. Culhane, Jr., Cleveland Heights, Ohio
Application March 2, 1951, Serial No. 213,547
5 Claims. (Cl. 29—1.21)

1. The herein described method of making shell forgings which comprises piercing a billet

to form a cup with a cavity of less depth and greater diameter throughout its length than that of the finished forging, punching a recess in the cup bottom that is of a diameter at its top substantially less than that of the previously formed cup bottom, that is centered with respect to the exterior of the cup and that conforms to the



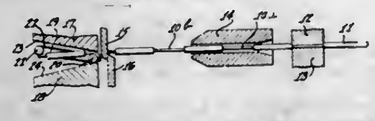
lower end portion of the cavity of the finished forging, and forcing said cup axially through axially aligned dies with a member therein that conforms to the interior of the finished forging fitting in said centered recess to draw the tubular wall of said cup into conformity with said member.

2,642,648

APPARATUS AND METHOD FOR FORMING AND MOUNTING DAMPER BARS ON GRIDS

Edwin F. Nicki, Cedar Grove, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 31, 1949, Serial No. 113,347
14 Claims. (Cl. 29—25.17)



1. Apparatus for forming and mounting a straight damper bar on a grid from continuous stock of coated damper bar material, comprising impact means for removing the coating from a portion of said damper bar material and for engaging the resultant bare portion for feeding said stock in intermittent steps through a predetermined path, a grid support spaced from said means for supporting said grid transversely of said path for receiving said stock across a predetermined transverse portion of said grid, means for severing said stock between said first named means and said grip support to provide a straight damper bar and means for fixing said damper bar to said grid.

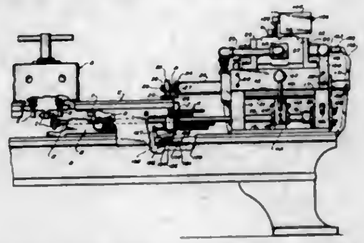
2,642,649

LATHE CONTROL MECHANISM

Richard H. Shadrick, Minneapolis, Minn., assignor, by mesne assignments, to Robert Hacking, Paul Hacking, and J. J. Panucci

Application May 27, 1946, Serial No. 672,506
16 Claims. (Cl. 29—42)

1. Operating mechanism for a turret lathe having a multi-station turret and a slide supported for traverse movement toward and away from the work and including indexing mechanism for indexing the turret to present successive tool stations to the work upon successive advance and return traverse movements of the slide, comprising in combination, fluid pressure operated means for moving the slide, fluid pressure metering means for regulating at least a part of the advance movement of the slide toward the work, means for individually selecting the rate of such metered travel of the slide upon successive operations thereof, and said selecting means including a member movable by the indexing mechanism of the lathe and carrying a



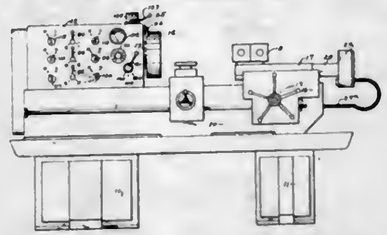
plurality of individually adjustable metering pins and a metering valve plunger adapted to be positioned by said pins in succession, and a flat contact member adapted to be engaged with said plunger by said metering pins and operative to accurately position the plunger in accordance with the adjustment of the pins.

2,642,650

MACHINE TOOL

Robert Harold Clark, Solon, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application September 17, 1947, Serial No. 774,647
14 Claims. (Cl. 29—64)



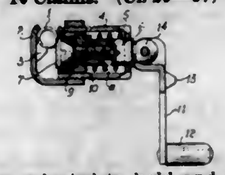
1. In a machine tool having a movable part, a variable speed electric motor operatively connected thereto for moving said part at different rates, and a member indexible at the end of each operative step of the work cycle; the improvement which comprises a control for said motor including a control circuit, separate settable motor speed regulating means for each operative step in the work cycle of the machine, indexible means for successively bringing each of said regulating means into the control circuit during the operative cycle of the machine, operative connections between said indexible means and said indexible member for effecting automatic indexing of said means with said member, a manually rotatable shaft having freely rotatable thereon gears correlated to the different operative steps and with each of said gears operatively interconnected with one of said regulating means, and means for selectively operatively interconnecting said gears with said shaft for setting each of said regulating means to preselect the motor speed and the rate of movement of said part for each operative step of the work cycle.

2,642,651

CABLE ARMOR CUTTER

Zoltan O. St. Palley, Branford, Conn.

Application June 25, 1952, Serial No. 295,525
10 Claims. (Cl. 29—67)



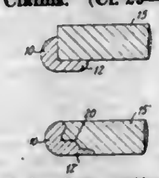
1. A clamp adapted to hold and axially position a BX cable; a hollow clamping screw, directed toward the side of said cable and having threaded relation with said clamp; a plunger rotatably and slidably mounted within said clamping screw; a hole-saw secured to one end of said plunger; a spring to press said hole-saw against said cable; a crank for the manual rotation of said plunger, having a pivotal connection with said plunger, said crank being adapted to withdraw said hole-saw from contact with said cable and to engage said clamping screw for the purpose of rotation, when said crank is swung about said pivotal connection.

2,642,652

METHOD OF MAKING A WELDED T-JOINT

Raymond C. Davis, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 30, 1951, Serial No. 208,643
3 Claims. (Cl. 29—148)



1. The steps in the method of making a welded T-joint between two solid metal rods, comprising; coining a notch in only one-half of the cross section of one of the rods, simultaneously causing the displaced metal from the notch to flow outwardly for forming a laterally extending integral lip projection thereon, inserting the end portion of the second rod into assembled relation with said notch and in contact with and overlying said laterally extending lip projection, the vertical dimension of the end portion of the second rod being greater than the depth of the said coined notch so that the end portion projects above the upper surface of said notched rod, and then electrically welding said rods at the notched portion and simultaneously causing the assembled portion of said rods to be deformed for integrating said laterally extending projection with the metal of said end portion and for forming a substantially flush strong joint between the rods.

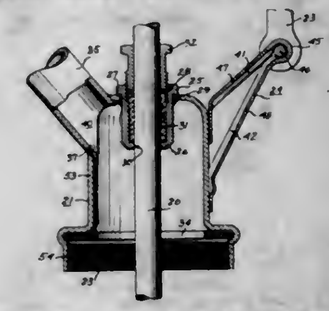
2,642,653

METHOD OF PRODUCING DISCHARGE HEADS AND HANDLE SUPPORTS FOR BARREL PUMPS

Edwin P. Sundholm, Albert City, Iowa

Application January 30, 1950, Serial No. 141,259
1 Claim. (Cl. 29—156.4)

The method of producing a discharge head and handle-support for a barrel pump which comprises pressing a cup from a piece of flat sheet-steel, cutting screw-threads on the inner surface of the lip of said cup, punching an aperture in the center of the end wall of said cup and a second aperture in the side of said cup, bending a generally J-shaped discharge spout from a one-piece tubular pipe, brazing the longer end of said spout in fluid-tight manner to said cup at said second-named aperture with the bore of



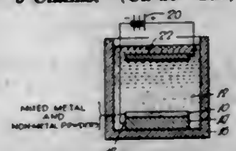
said spout in communication with the interior of said cup, brazing a packing-gland to said cup at said first-named aperture, bending a one-piece generally V-shaped bifurcated bracket from flat sheet-steel to form a self-container pivot-bearing at the root of the V and to form cup-engaging flanges at the ends of the V, and projection welding said bracket-flanges to the outer surface of the side of said cup opposite said second-named aperture.

2,642,654

ELECTRODEPOSITED COMPOSITE ARTICLE AND METHOD OF MAKING THE SAME

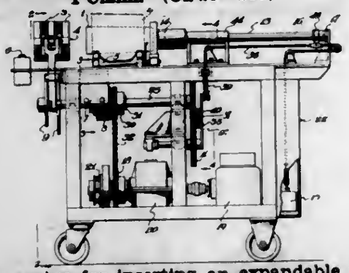
Gerhard W. Ahrens, New York, N. Y., assignor to Econometal Corporation, a corporation of Delaware

Application December 27, 1946, Serial No. 718,961
5 Claims. (Cl. 29—192)



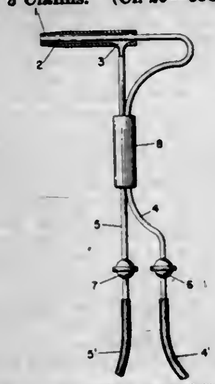
1. In the art of powder metallurgy, the process of manufacturing articles of selected size and shape containing divided material of high fusion point, tensile strength and hardness, by internal bulk electroplating, which comprises mixing the divided material with metallic powder particles of high melting point and tensile strength different than the divided material until a substantially uniform mixture is obtained, with the metallic powder particles in electrically conducting contact with one another and with interestices being formed between the particles, forming the article to selected size and shape, filling the interstices with a plating electrolyte for depositing a metal of high melting point and tensile strength which is capable of forming an integrated bond with the metallic powder, and plating for a period of time sufficient to deposit the electrolytic metal from the plating solution upon the powder to unite the particles thereof and to form a rigid porous structure with interstices of reduced cross section.

2,642,655
CAKE INSERTER
Eugene Leslie Davis, Jr., Beach, and Maurice Edward Kalen, Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 28, 1950, Serial No. 158,674
1 Claim. (Cl. 29—234)



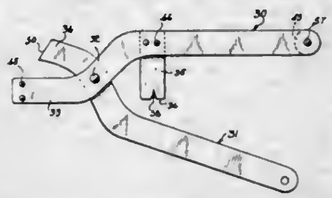
Apparatus for inserting an expandable insert into the hollow core of a package of yarn and the like which comprises a support having a saddle for holding a package in a fixed position, an insert collapser located on said support on one side of the package with mechanism for actuating the collapser to compress the expandable insert sufficiently to fit into the core of the package, an insert holder comprising an insert-engaging head on an inserting tube slidably mounted on said support on the opposite side of the package from said collapser for movement axially through the package, mechanism for moving the holder through the package to engage one end of the compressed insert and pull the insert from said collapser into the package, a snubber located on said support at the end of the package opposite to said collapser and adapted to restrict horizontal movement of the insert out of the package, and an extractor rod slidably mounted in said inserting tube and adapted to engage a fixed stop on said support to disengage the insert from the holder when the insert has been positioned within the package.

2,642,656
METHOD OF WELDING OR CUTTING METAL AND OTHER MATERIALS BY CHLORINE FLUORIDE TORCH
Aristid V. Grosse, Haverford, Pa., assignor of one-half to Jacque C. Morrell, Merion, Pa.
Application January 15, 1948, Serial No. 2,485
8 Claims. (Cl. 29—358)



7. A method of cutting or welding, comprising heating the material to be cut or welded to a welding or cutting temperature by the combustion of fuel selected from the group comprising hydrogen and hydrocarbon gases in the presence of a supporter of combustion comprising a chlorine fluoride the said chlorine fluoride being present in sufficient amount to increase the temperature of the flame.

2,642,657
WIRE CLIPPER AND STRIPPER
Charles H. Arnt and Woodrow A. Bowman, Chicago, Ill.
Application July 25, 1949, Serial No. 106,516
1 Claim. (Cl. 30—229)

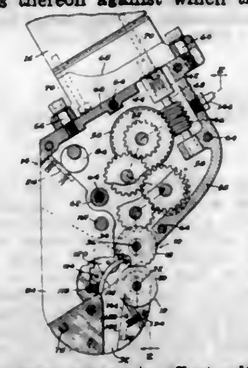


A wire cutter adapted for cutting twin-lead wire, comprising a first handle means formed by two one-piece planar members defining longitudinally extending spaced side pieces, a second handle means formed by a one-piece planar member and having a portion thereof disposed between said spaced side pieces and pivotally connected thereto for pivotal action therebetween, spacers fixedly disposed between said side pieces one at each end thereof and one adjacent the central regions thereof to maintain the side pieces in spaced relationship, said centrally disposed spacer being fixedly secured to said spaced side pieces of said first handle means rearwardly of the pivot axis and defining an elongated member extending transversely of the longitudinal axis of said wire cutter, and the extended end being adapted to engage a portion of said second handle means thereby to restrict closing movement of the handles during the operation of the wire cutter, the spaced side pieces adjacent the front end thereof defining therebetween a pair of cutting edges, sad second handle means at said front end thereof defining concave cutting edges cooperating with said first mentioned cutting edges and terminating in a convexly rounded nose portion, and the spacer disposed adjacent the cutting end of said wire cutter having a forwardly concave arcuate cutting surface arranged to cooperate with said convexly rounded nose portion for the cutting operation.

2,642,658
CUTTING TOOL FOR CUTTING SHEET METAL
Thomas B. Johnson, Decatur, Ga., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1950, Serial No. 175,929
11 Claims. (Cl. 30—264)

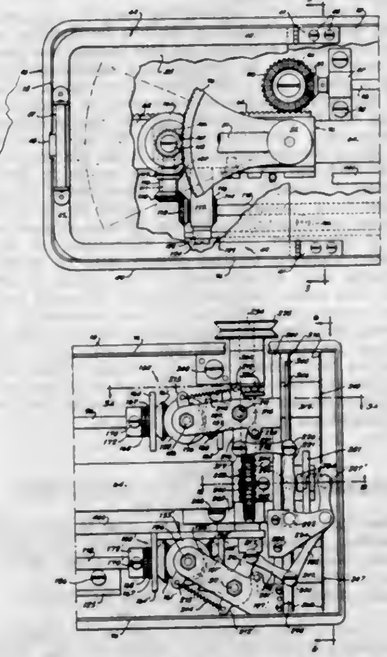
1. A tool for cutting sheet metal comprising a driven rotary cutting unit and a cooperating idling cutting unit, each cutting unit having a pair of spaced and parallel cutting disks cooperatively arranged to cut a strip of metal out of the sheet forming an opening through which the tool may pass, the driven cutting disks having a plurality of inwardly beveled teeth arranged to pierce the metal and force the same against and between the idling cutting disks to perform the cutting operation, said idling cutting disks having

relatively narrow shouldered portions adjacent the inner faces thereof for cooperation with said teeth to grip and deform the metal along the marginal edges of the strip forming tooth-like projections thereon against which the teeth of



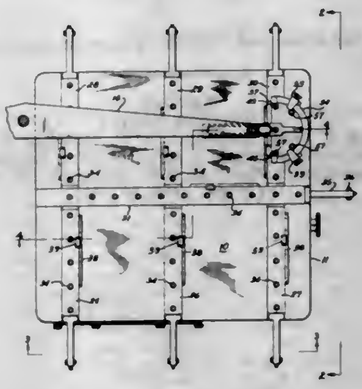
the driven disks engage to effect self-feeding of the tool along the sheet being cut, and means including a roller disposed immediately behind the cutting units for deflecting said strip out of the path of the tool as the same is advanced during the cutting operation.

2,642,659
AUTOMATIC FACSIMILE WRITING AND DRAWING MACHINE
Leon Paul Black, Cliffside Park, N. J.
Application August 23, 1948, Serial No. 45,728
32 Claims. (Cl. 33—16)



1. In a machine for reproducing linear facsimiles, the combination with a surface for holding a recording sheet and a scriber located thereabove, supporting means for the scriber comprising a longitudinally movable carriage and a turret thereon, a rack on the carriage and a segmental gear on the turret, of a master record having separate portions corresponding to the longitudinal and lateral characteristics of the subject matter to be reproduced, separate feelers cooperating with said two record characteristics, and gearing connections operated by said feelers and each imparting movement to said rack and gear for correspondingly moving the scriber.

2,642,660
UNIVERSAL CONTOUR GENERATOR
Louis P. De Vau, Cleveland Heights, and Anthony F. Baltus, Cleveland, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application April 19, 1950, Serial No. 156,904
6 Claims. (Cl. 33—23)



3. A contour generator for guiding a cutting tool to produce exactly intersecting contour portions comprising a plate adapted to be mounted in an adjustably fixed position upon a reproducing machine, a groove extending laterally and another groove extending transversely across the upper surface of said plate, at least one slide received in the lateral groove and a slide in the transverse groove, and adjusting means for holding each slide at any predetermined position along a groove or moving the slide along the groove, and sockets in said slides for successively connecting the leader to any of the slides.

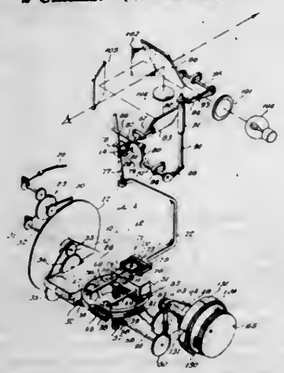
2,642,661
ARCHERY SIGHT
Bert E. Fredrickson, Green Bay, Wis.
Application September 28, 1951, Serial No. 248,826
7 Claims. (Cl. 33—46)

1. In an archery bow, a hand grip provided with a vertically extending guideway intermediate its ends and extending inwardly from one face thereof, said guideway including a base wall and arcuate side walls, a sight base positioned transversely of said hand grip, means mounting said sight base for movement along said guideway, said means comprising a pair of spring-biased abutments positioned within said guideway and having their non-confronting faces bearing against said arcuate side walls, and a pin arranged transversely of said hand grip and

having one end extending into said guideway and secured to one of said abutments and having the other end rotatably supporting said sight base.



2,642,662
VECTOR SIGHT
Floyd A. Lyon, Elmhurst, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application March 30, 1944, Serial No. 528,705
2 Claims. (Cl. 33—49)



1. In a device of the character described, a mechanism for deflecting a line of sight in two dimensions by means of a single member comprising a rod having a support at one end variably moved about two axes responsive to changes in elevation and azimuth, a support comprising a universal joint disposed near the opposite end of the rod actuated by the movement of the rod for separating the elevational and azimuth components of the movement of said rod, said universal joint comprising a member provided with an opening in which the rod is free to turn and reciprocate, oppositely disposed pivots on said member, a shaft provided with a bifurcated end for supporting the pivots, the arrangement being such that the shaft turns in accordance with an azimuth component of the movement of the rod, a crank disposed to engage said rod and follow the movements thereof about said pivots, a shaft turned by said crank according to an elevation component, and adjustable means for defining a line of sight controlled by the respective shafts.

2,642,663
MEASURING AND CUTOFF MACHINE
Arthur H. Long, Pittsburgh, Pa., assignor to Wm. K. Stamets Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 8, 1949, Serial No. 131,739
9 Claims. (Cl. 33—132)

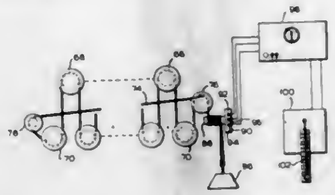


4. A cutoff mill comprising inlet and outlet tables having aligned rolls for supporting and carrying stock, a measuring machine and a cutoff machine with clamps positioned in tandem between the aligned inlet and outlet tables, a stock actuated flag switch means to start the rolls to feed the stock when depressed and to initiate the supply of stock when released, a retractable stock stop, a second stock actuated flag switch adjacent the discharge of the inlet table to slow down the stock feed rolls as the stock approaches said stop, a measuring roll, a third switch actuated when the stock engages said stop to lower the measuring roll into engagement with said stock and to cause withdrawing said stop to permit the stock to continue through the mill, scanner switch means actuated by the rotary movement of the measuring roll to stop the rolls after a predetermined longitudinal movement of the stock and to grip the stock in the clamps of the cutoff machine, means actuated by said clamps to operate the cutoff machine to sever the measured stock piece and retract the clamp to permit the remaining stock to be measured and severed.

8. A machine for measuring lengths of stock moved past a measuring station comprising a wheel rotatably mounted at the measuring station and movable to engage and disengage the stock, a clutch part mounted for rotation on a given horizontal axis and connected to be driven by said wheel, a weighted element, guide means to direct said weighted element to revolve in a path about the horizontal axis of the clutch part and attractable by the latter to rotate in synchronism therewith but freely returnable when released to a common starting point in its path of movement, means actuated by the presentation of the stock to induce attraction of the weighted element by the clutch part to rotate therewith upon engagement of the stock by the wheel, and switch means mounted adjacent said guide means and actuated by the movement of the weighted element to a predetermined position to cause its release from the clutch part and disengage the wheel from the stock when the stock has traveled a predetermined distance and to initiate another action related to the predetermined stock length.

2,642,664
APPARATUS FOR TESTING THICKNESS OF TEXTILE LAP
Charles Calvin Wilson, Lanett, and Homer Lee Smedley, Shawmut, Ala., assignors to West Point Manufacturing Company, West Point, Ga., a corporation of Alabama
Application March 9, 1951, Serial No. 214,721
8 Claims. (Cl. 33—148)

1. In lap testing apparatus, means to measure the average thickness of a width of lap, said means comprising a plurality of feeler members movable in response to thickness of the lap, the feeler members being distributed widthwise of the lap, a closed loop of flexible cable, means mounted on each feeler member for receiving the flexible cable thereabout, a plurality of fixedly mounted means for receiving the flexible cable thereabout, a portion of the cable loop being



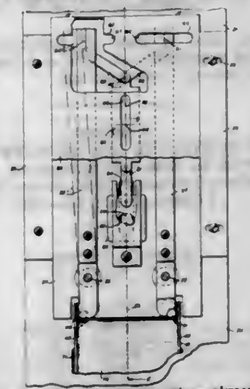
threaded successively about a receiving means of a feeler member and about a fixedly mounted receiving means, and measuring means adapted to measure the length of cable in the said portion of the cable loop to provide a measure of the average thickness of the width of lap beneath the feeler members.

2,642,665
CYLINDER GAUGE
Andrew T. Olson, Fargo, N. Dak.
Application April 27, 1951, Serial No. 223,281
2 Claims. (Cl. 33—148)



1. In a device of the class described, the combination of a primary and an auxiliary leg, a yoke including spring sections and a semi-loop handle integral with the upper ends of said legs, a scale plate fastened to said handle, a guide fixedly secured at one end to said auxiliary leg, said guide extending to and partly surrounding said primary leg, a pointer slidably mounted in said guide, a pair of overlapping brackets on the lower ends of said legs, means pivotally connecting said pointer to said brackets, a fixed pointer and an adjustable pointer below said brackets and on the lower ends of said legs, said adjustable pointer being threaded through one of the legs, and spring means within the leg through which the adjustable pointer passes engaging said pointer to resist rotative movement thereof.

2,642,666
SPOOL DIMENSION INDICATOR
Jesse A. Cranford, Buffalo, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 25, 1950, Serial No. 140,365
7 Claims. (Cl. 33—148)



1. In an indicator for measuring simultaneously a plurality of dimensions of spool flanges, the combination with an arbor for supporting a spool to be measured and means for rotating the arbor, of two pivoted measuring fingers associated with the arbor, each of which is adapted at one end to engage the inner flange surfaces of a spool on the arbor, means for holding said one ends against the flanges, to cause the fingers to oscillate about their pivots in accordance with any wobble in the flanges, a scale adjacent and associated with the other end of each finger for indicating the wobble in each flange, means mounted between and connected to the said other ends of the fingers to move according to variations in the spacing between the flanges and a third scale cooperating therewith for indicating the flange spacing.

2,642,667
EXTENSIBLE RULE
Lowell E. Smiley, Lorain, Ohio
Application April 25, 1950, Serial No. 157,923
14 Claims. (Cl. 33—161)



13. A linear measuring instrument having a longitudinal slideway communicating with an end thereof, an extension slide mounted for sliding movement therein comprising two longitudinally spaced interconnected members, resilient means urging said members apart, stop means limiting such maximum longitudinal spacing of said members, clamping means for releasably locking the inner one of said members in such slideway, and means selectively operable to lock said members in maximum spaced relation.

2,642,668
GAUGE BLOCK AND HOLDER
Leroy Dorel, Hamilton, Ontario, Canada
Application November 3, 1948, Serial No. 58,099
3 Claims. (Cl. 33—168)

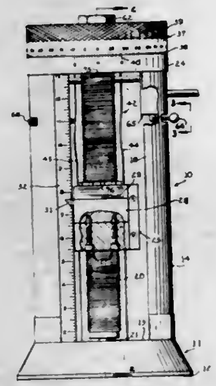
1. A holder for aligned gages having bores comprising a pair of plugs adapted to be accom-

modated respectively in a bore in each of a pair of gages with the ends of the plugs projecting



therefrom, and a pair of elongated elements adapted to retainably engage and link the corresponding ends of the said plugs.

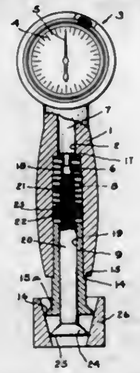
2,642,669
SCREW-ACTUATED MICROMETER GAUGE
Melvin H. Ernst, Birmingham, Mich.
Application October 3, 1950, Serial No. 188,207
3 Claims. (Cl. 33—170)



1. In a micrometer gauge, a hollow vertical case having a base on its lower end adapted to rest upon a calibrated plane and horizontal surface, a top plate closing the upper end of the case, an actuating screw rotatable in the case mounted at its lower end on said base and having an upper end portion freely journalled through said top plate, a rider nut threaded on the actuating screw for vertical movement on the actuating screw between said base and said top plate, as the screw is rotated, said rider nut having an anvil having a calibrated plane and horizontal surface, a vertical slide fixed in said case at a point remote from the anvil, said slide having vertical side edges deformed to compensate for pitch errors inherent in the actuating screw, and fingers projecting from said rider nut at a point remote from the anvil, said fingers being engaged with the vertical side edges of the slide whereby said rider nut is moved sidewise to compensate for pitch errors in the actuating screw as said actuating screw is rotated, and means for actuating said actuating screw in opposite directions.

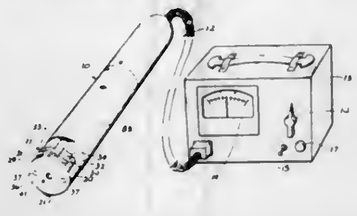
2,642,670
GAUGE
Walter K. Dow, Longmeadow, Mass.
Application February 19, 1949, Serial No. 77,330
6 Claims. (Cl. 33—174)

1. In a device of the character described, a support having a bore, a dial gauge supported adjacent one end of said bore and having the actuator pin thereof extending into said bore, a tubular gauge member having a portion extending into said bore from the end thereof opposite said dial gauge and having a peripheral shoulder adjacent the end of said support, a sliding gauge member extending through said tubular gauge



member and adapted to engage and actuate the actuator pin of said dial gauge and means in said bore for urging said sliding gauge member in a direction away from said actuator pin.

2,642,671
INTERNAL GAUGE
Erwin W. Graham, Parma Heights, and Walter O. Mintel, Shaker Heights, Ohio, assignors to Cleveland Instrument Company, Cleveland, Ohio, a corporation of Ohio
Application May 3, 1950, Serial No. 159,734
13 Claims. (Cl. 33—178)



8. An internal gauging device comprising an elongated supporting member, a pickup disposed within said supporting member, the pickup embodying an armature movable longitudinally of said supporting member, a bell crank pivotally mounted in said supporting member, one arm of said bell crank extending transversely of said supporting member and being operatively connected to said armature, the other arm extending axially of said supporting member and carrying a gauging point, a gauge head secured to said supporting member, said gauge head carrying on one side thereof a fixed anvil member adapted to engage an internal surface to be measured and a locating piece, said locating piece being resiliently urged in a direction away from said anvil, said locating piece having a central recess opening on the side of said gauge head opposite said anvil and work engaging projections on either side of said central recess, said gauging point being disposed in said recess.

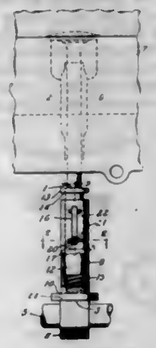
2,642,672
HOLE GAUGE
Warren J. Lewis and Wade H. Utz, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application October 9, 1950, Serial No. 189,144
5 Claims. (Cl. 33—178)



1. A gauge for measuring the diameter of a hole, which gauge comprises a tubular casing, a rod extending through the casing and movable longitudinally thereof, extending from one end of the casing and spaced equally from each other a plurality of springy wires of equal length, a ball fastened at the outer end of each of the wires, all balls being of the same diameter, a conically shaped plug with its base fastened to the end of the rod adjacent said end of the casing, the balls being held against the tapered surface of the plug by their respective wires, whereby movement of the rod moves the balls radially relative to the axis of the plug, and calibrations on the other end of the rod for a distance equal to the length of the plug, and means at that end of the casing to indicate on the calibrations the distance of the plug from its end of the casing and hence the diameter of a circle which may be circumscribed around the balls against the tapered surface of the plug at that distance from the end of the casing.

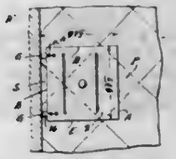
2,642,673
HYDRAULIC VALVE GAUGE
James F. Suma, Chicago, Ill.
Application April 11, 1951, Serial No. 220,395
3 Claims. (Cl. 33—181)

1. A gauge for checking the distance between a cam lobe and a valve stem in an internal combustion engine, comprising an elongated tubular housing having a uniform bore therein, said housing being fully open at one end and having an end wall at its other end, an elongated plunger slidably seated in said housing and projecting from the open end thereof, a spring means in said housing intermediate said end wall and the adjacent end of said plunger for yieldably urging said plunger outwardly of said housing, said gauge being insertable between a cam lobe and valve stem with said plunger moved inwardly of said housing against the pressure of said spring, the latter serving to urge expansion of the over-all length of the gauge into a snug fit between the cam lobe and valve stem, said housing being provided intermediate its ends with an elongated slot and said plunger having an indicator projecting laterally therefrom into said slot and movable lengthwise in said slot as an incident to the movement of said plunger in said housing, said indicator serving to prevent the withdrawal of said plunger from said housing, and a scale on the surface of said housing



adjacent said slot for cooperation with said indicator to indicate the extent of variance of the distance between said cam lobe and valve stem from a predetermined distance.

2,642,674
IMPLEMENT FOR USE IN LAYING SQUARE TILE
William J. Schell, Jr., Jersey City, N. J.
Application September 1, 1950, Serial No. 182,847
4 Claims. (Cl. 33—185)

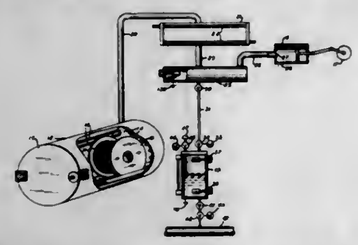


1. An implement for use in laying square tile of given dimensions, comprising a generally rectangular plate having a pair of straight edges at parallel sides thereof spaced apart a distance equal to the width of a given size of tile and having a second pair of straight edges at parallel sides thereof spaced apart a distance equal to the maximum diagonal dimension of another size of tile, and fixed extension means on said plate at one of said edges of said first pair of edges providing a dimension between the free end of said extension means and said other straight edge of said first pair of straight edges equal to the distance between said second pair of straight edges.

2,642,675
APPARATUS FOR HANDLING FLUIDS
Edgar W. Hertenstein, Jr., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 30, 1950, Serial No. 187,763
4 Claims. (Cl. 24—53)

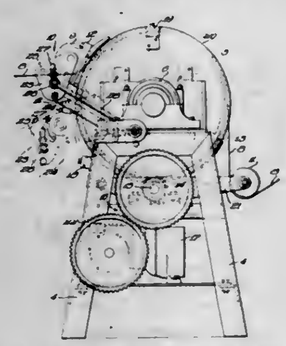
1. In apparatus for discharging fluids from a vacuum system including a vessel designed to receive a moisture bearing article, a vacuum pump for extracting moisture bearing gas from the article and means for condensing the moisture in the extracted gas as it travels from the vessel to

the pump, the improvement which comprises means normally communicating with the vessel for collecting the condensate so produced, a detector sensitive to changes in the level of the condensate within the collecting means, means actuated by the detector for disconnecting the condensate collecting means from the vessel when the condensate reaches a predetermined high level in the collecting means, means actuated by the detector for automatically opening the col-



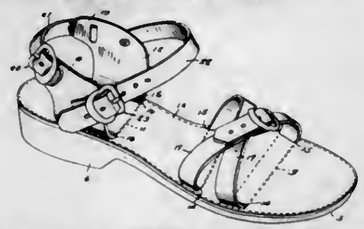
lecting means to the atmosphere a predetermined time interval after the collecting means is disconnected from the vessel to drain the condensate therefrom, and means actuated by the detector when the condensate within the collecting means reaches a predetermined lower level for closing the collecting means to the atmosphere to terminate the draining of the condensate therefrom and for reconnecting the collecting means to the vessel, whereby the condensate may again collect within the collecting means.

2,642,676
PREHEATER AND CONDITIONER UNIT
Carl W. Grimm, Chicago, Ill., assignor to Henry Pratt Company, a corporation of Illinois
Application June 14, 1950, Serial No. 168,126
6 Claims. (Cl. 34—122)



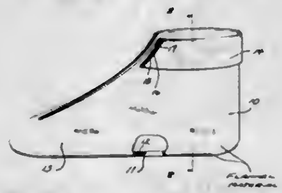
1. A unit for conditioning paper strips, comprising: a frame; a conditioner roll journalled in said frame and adapted to heat a paper strip in contact with its outer surface; a guiding unit; supporting mechanism on said frame for holding the guiding unit in selected positions about the conditioner roll; a first guide roll journalled in said unit with its axis parallel to the axis of said conditioner roll; a pair of brackets pivotally suspended from said first guide roll; a second guide roll parallel to the first guide roll and journalled in said brackets; and mechanism for holding said brackets in upright position

2,642,677
ADJUSTABLE COUNTER FOR STRAP SANDALS
Maurice M. Yates, Greeneville, Tenn.
Application April 19, 1951, Serial No. 221,877
1 Claim. (Cl. 36—11.5)



In a sandal, an outsole and an insole secured to said outsole, the insole having elongated counter openings formed adjacent to the side edges of the heel portion thereof, said openings extending from substantially the heel breast line rearwardly to substantially the center of said heel portion, a counter member slidably mounted between the outsole and insole and having upstanding side portions and being continuous from one of said side portions through an opening in said insole, then through a second opening in said insole to the other side portion, and said counter member being wide throughout that portion of its length that extends between said insole and outsole and its upwardly extending sides.

2,642,678
OVERSHOE LINER
Esther A. Fula, Milwaukee, Wis.
Application March 5, 1951, Serial No. 213,910
2 Claims. (Cl. 36—72)

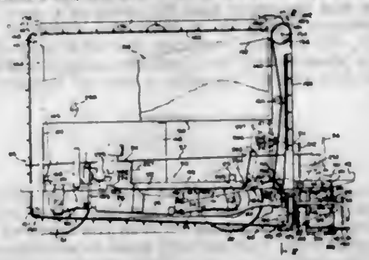


1. An overshoe liner including a relatively soft sole of sheet material, an upper of the same material sewed thereto having a frontal opening, a cuff integral with said upper comprising a downward fold from the top thereof, a reverse upward fold, and a relatively short downward fold interposed between the first mentioned downward fold and said upward fold, all integral with said upper and adapted to engage over the upper edge of an overshoe and depend exteriorly therefrom.

2,642,679
ICE RINK RESURFACING MACHINE
Frank J. Zamboni, Hynes, Calif.
Application May 16, 1949, Serial No. 93,478
14 Claims. (Cl. 37—13)

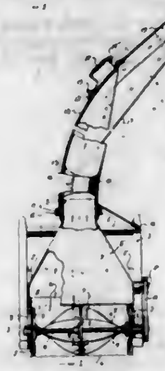
1. An ice rink resurfacing machine comprising a vehicle having a receptacle attached thereto, a sharp-edged blade arranged generally transversse to the direction of forward travel and disposed to take a light, accurately controlled shaving cut on the ice, said blade being mounted on and positioned with respect to the surface of the ice by a supporting frame resting

directly on the surface of the ice and floating with respect to said vehicle, said blade being attached at its ends to said supporting frame, spring means on said frame engaging said blade



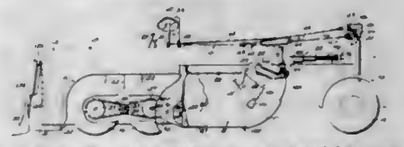
intermediate its ends and pressing the same down against the ice, and means for collecting the shaved ice produced by said blade and depositing the same in said receptacle.

2,642,680
SNOWPLOW
Gordon E. Curtis, Oshkosh, and Walter A. Oberbeck, Fond du Lac, Wis.
Application December 30, 1946, Serial No. 719,224
1 Claim. (Cl. 37—43)



In a snow plow of the type including a frame having a pair of spaced handles and ground engaging wheels, a transversely extending hood rigidly secured to the forward end of said frame, said hood having an open front snow receiving mouth, a driven rotary snow cutter mounted in the hood and partially projecting through the mouth thereof, a curved conveyor pipe rotatably mounted on the upper end of the hood, a curved shell slidably received on the conveyor pipe, means including set screws carried by the shell for adjustably securing the shell to the pipe, a deflector cap pivotedly secured to the outer end of the curved shell, a spring having one end secured to the shell and its opposite end secured to the deflector cap adjacent its pivoted end to normally resiliently hold the deflector cap in its extreme upper position, adjusting means for pivoting said deflector cap downwardly against spring tension and holding said cap in an adjusted position and adjusting means including an endless runner trained over the base of said curved shell for radially rotating the shell and pipe to any desired position, whereby the conveyor pipe may be adjusted to any position in the 360° of the described circle for directing the snow radially therefrom, the length of the conveyor pipe may be extended or shortened and the angle of deflection varied as desired.

2,642,681
FRONT APRON ADJUSTING MECHANISM FOR CARRY-TYPE SCRAPERS
Harold A. Wagner, Portland, Oreg.
Application July 14, 1948, Serial No. 38,643
2 Claims. (Cl. 37—126)

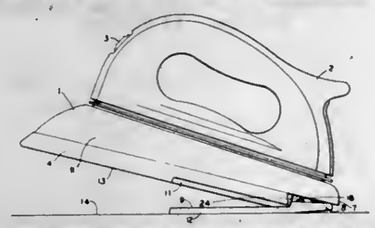


1. An earth scraping and moving vehicle comprising a frame, an earth scraping bucket pivotally mounted on said frame toward the rear of the bucket, means mounted on said frame for raising and lowering the front end of said bucket with respect to the ground, said bucket including a bottom wall having a scraper blade at its forward edge, a pair of side walls joining said bottom wall and including upper portions extending forwardly beyond said scraper blade in vertically spaced relation thereto, and a front wall joining the forward edges of said upper portions, there being a gap in the front of said scraper bucket defined in part by vertical edges of said side walls immediately adjacent said scraper blade, a gate including an arcuate, upwardly directed front portion and side portions parallel to said side walls, said bottom wall of the bucket being disposed substantially tangentially with respect to the front portion of said gate when the gate is lowered, a first pair of links inclined forwardly and connecting the upper, rear corners of the side portions of said gate to said side walls above said scraper blade when said gate is in the closed position, a pair of levers mounted on said side walls and extending forwardly above the side portions of said gate, a second pair of links inclined rearwardly and connecting said levers to the side portions of said gate, motive means mounted on said bucket for actuating said levers to raise said gate, said links swinging to permit vertical, linear movement of said gate upon initial movement of said levers adjustably to define a narrow slot above said scraper blade, and means limiting movement of said first links whereby continued actuation of said levers causes said second links to swing said gate arcuately about the front wall of said bucket.

2,642,682
SNAP ACTION SADIRON LIFT
George Browning, Wilmette, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application May 28, 1948, Serial No. 29,972
14 Claims. (Cl. 38—79)

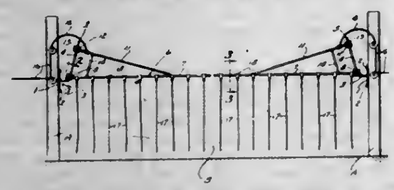
1. In combination, a flatiron having a body with a smooth bottom surface movable between a first position in which said surface is inclined with respect to a work surface and a second position in which said bottom surface rests on said work surface, a support, means for pivotally mounting said support to the rear of said body, said support having a leg extending forwardly of the iron, said leg shaped to engage the work surface when the body is inclined in said first posi-

tion and being disposed above said bottom surface when the latter engages said work surface and an overcenter snap spring system disposed between said support and said body and having an axis of maximum stress and positions of reduced stress disposed on either side of said axis of maximum stress, said spring system comprising spring means connected to said body and said support and operable to maintain said support in a position to hold said body inclined with respect to



the work surface in one position of reduced stress and operable to maintain said support above the bottom surface of the body in the other position of reduced stress, said spring means causing said support to move with a snap action when said spring system passes in either direction through its axis of maximum stress, whereby when said iron is moved from an inclined position toward the work surface said leg moves into its retracted position with a snap action.

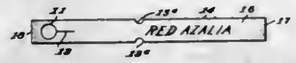
2,642,683
ELECTRIFIED GATE CONSTRUCTION
Aloys H. Meyer, Jr., Melrose, Minn.
Application November 5, 1951, Serial No. 254,892
1 Claim. (Cl. 39—84)



In a device of the class described, an elongated light weight resilient metallic barrier rod having a pair of spaced tubular insulator members secured to its inner end, a line drawn through the common axis of said tubular insulators intersecting said barrier rod at an angle less than 90°, a pintle pin having a free upper end and having a length greater than the distance between said tubular insulators, said tubular insulators being slidably receivable over the free end of said pintle pin, and bracket means for securing the lower end of said pintle pin to a support in spaced relation to the ground in an angularly upwardly extending position transversely of a passageway.

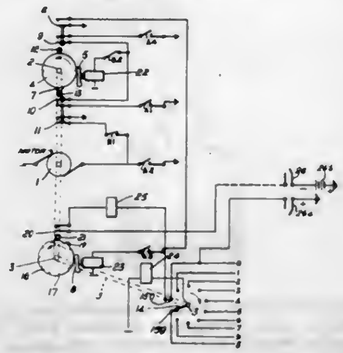
2,642,684
PLANT IDENTIFICATION TAG AND METHOD OF MAKING AND APPLYING SAME
John Langdon Watts, Daytona Beach, Fla.
Application May 16, 1951, Serial No. 226,692
2 Claims. (Cl. 40—21)

1. A plant identification tag comprising a relatively thin resilient strip of uniform width having parallel edges, a relatively large aperture in said strip adjacent one end thereof having its center intermediate said edges, a slit in the strip extending radially from the aperture parallel to and intermediate said edges and toward the opposite end of the strip, the diameter of said aperture and length of said slit being of a combined dimension equal to at least the width of said strip, for initially receiving the other end of the strip when flexed to a position at right angles to said first end of the strip, a pair of transversely



aligned notches in the said edges of the strip intermediate said aperture and the other end of the strip, the distance between the bases of said notches being substantially equal to said diameter of the aperture for permitting return of the strip from said right angular flexed position and wherein the portion of the strip intermediate the bases of said notches extends diametrically of said aperture and at right angles to said slit in the provision of a plant encircling loop.

2,642,685
MONOGRAMMIC INDICATOR
John Handley, Purley, England, assignor to The Union Totalisator Company Limited, Glasgow, Scotland, a corporation of Great Britain and Northern Ireland
Application July 31, 1948, Serial No. 41,876
In Great Britain November 21, 1946
6 Claims. (Cl. 40—52)



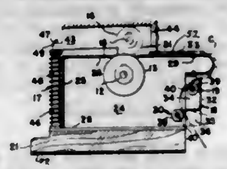
1. A perforated-plate-controlled monogrammic indicator which comprises indicator display sections, a perforated control plate provided with sets of holes, one set per display section, said sets comprising different selections of holes from a maximum number of possible hole positions, the holes of the sets being arranged respectively on the arcs of similar rings, control pins each associated with a display section and each adapted to cooperate with a corresponding set of holes and to sense the various possible hole positions of said set to control the display of its associated display section, means including a rotatable crank for imparting to said perforated control plate an orbital movement in its own plane the radius of which is equal to the radius of said rings of holes to register different possible hole positions in said sets with said control pins, and means for moving selections of said display sections between non-display and display positions under control of said perforated plate.

2,642,686
INTERCHANGEABLE LETTER SIGN
Jack W. E. Simpson, Richmond, Va.
Application April 12, 1949, Serial No. 87,092
1 Claim. (Cl. 40—143)



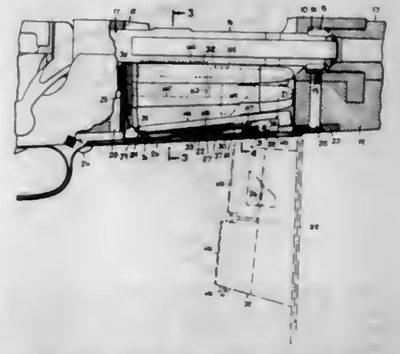
In a sign including a three dimensional character formed of penetrable material, the improvement comprising a plurality of hangers fixed to the rear side of said character, each hanger having a horizontal threaded end threaded into said character from the rear side thereof, a collar spaced from such end to each hanger to limit the depth of penetration of said threaded end into said character, each hanger having its opposite end depending substantially vertically at a point spaced from said collar, the distance from the collar to the depending end of each hanger being identical whereby, when all of said hangers are threaded into said character with the collars thereof contacting with the rear face of said character, all of said depending ends will lie in a single vertical plane, and brackets corresponding in number and arrangement to said hangers and secured against the supporting structure, each bracket having a horizontal portion provided with a vertical opening to receive the depending end of one of said hangers, each such depending end being split to be spread to prevent upward displacement of said character except by the use of force, and each such depending end being rounded at its lower extremity whereby, after said depending ends have been removed from said openings, said rounded ends while seated in said openings, upon the application of downward vertcial force, will contract said split ends for re-insertion in said openings.

2,642,687
FINGERPRINTING DEVICE
James E. Harris, Smyrna, Tenn.
Application August 10, 1950, Serial No. 178,740
3 Claims. (Cl. 41—4)



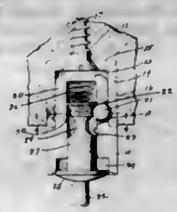
1. In a finger printing machine, a platen having a rounded front end; spaced parallel guides positioned along the forward side edges of said platen for holding and guiding a finger print card during its travel over the platen; means for feeding the finger print card over the platen comprising manually operated feed rollers; and guide means positioned below and rearwardly of the front end of said platen for engaging and holding the portion of the finger print card not on the platen in a position under the platen and out of the way of the operator and the person being finger printed, said guide means comprising a fixed guide member extending transversely of the platen and a swingable guide member pivotally connected below and at one side of the platen, the construction and arrangement being such that the swingable guide member may be moved to an open position to permit the projecting portion of a finger print card mounted on the platen to be bent downwardly around the rounded front edge of the platen and rearwardly into engagement with the fixed guide member and moved to a closed position to hold the finger print card against the fixed guide member.

2,642,688
MAGAZINE-CONVERSION UNIT FOR FIREARMS
Melvin M. Johnson, Jr., New Haven, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware
Application December 6, 1950, Serial No. 199,431
4 Claims. (Cl. 42—50)



1. In a box-magazine firearm, the combination with a box-magazine body of the double-column cartridge-feed type having a hinged floor plate for closing the lower end of said box-magazine body; of a conversion-unit fitting snugly within said box-magazine body for converting said magazine-body to single-column cartridge-feed; a cartridge-follower and follower-spring positioned in said conversion unit, said follower-spring being releasably anchored to said hinged floor plate and releasably interlocked with said conversion unit for detachable attachment of the latter to said floor plate.

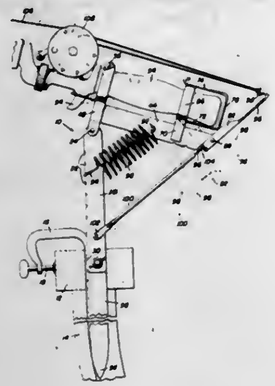
2,642,689
GUN SWIVEL
John L. Cline, Portland, Oreg.
Application August 1, 1949, Serial No. 107,956
1 Claim. (Cl. 42—85)



A gun swivel comprising a sleeve adapted to be recessed into a gun stock, said sleeve having a raceway formed therein, an indent in said sleeve

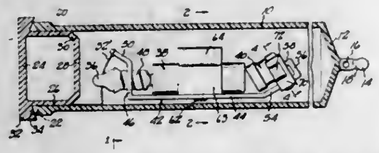
extending into said raceway, a plug rotatably mounted in said sleeve, said plug having radial holes formed in the side thereof inclined with relation to the axis of the plug, a ball disposed in each of said holes, a plunger disposed along the axis of said plug having a pair of raceways formed around same of unequal depth, a spring within said sleeve urging said plunger outwardly in a manner to urge its shallower raceway against said balls and force same outwardly through said holes into the raceway in said sleeve.

2,642,690
FISHING ROD HOLDER
Edwin Soenksen, De Witt, Iowa
Application January 5, 1950, Serial No. 136,857
4 Claims. (Cl. 43—15)



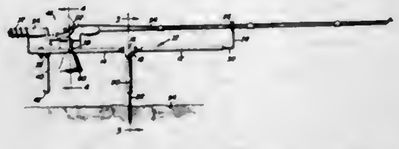
1. A fish rod device comprising a support, a rod holder pivoted to said support, resilient means yieldingly urging said holder into a predetermined pivoted position upon said support, a keeper pivoted to said support and maintaining said holder outwardly of said predetermined position, a trigger pivoted to said holder and operatively engaging said keeper, and a trigger operator on said trigger for engagement and actuation by the line of a fishing rod mounted in said holder for release of said keeper by said trigger in response to a jerk upon the line, said trigger comprising a lever having a seat, said keeper being engageable with said seat, and said holder having a stop for preventing movement of said seat and trigger in one direction.

2,642,691
ILLUMINATED FLOATING FISHING BOBBER
Virgil R. Harshman, South Bend, Ind.
Application June 2, 1950, Serial No. 165,767
3 Claims. (Cl. 43—17)



1. An illuminated fishing bobber comprising a hollow sealed elongated buoyant body having at least a part thereof formed of translucent material and including a removable closure member, an electrically conductive bracket unit including an elongated portion and a pair of spring clamps, a battery gripped by one clamp, a mercury switch carried by the other clamp in angular relation to the length of said body, said bracket unit including a transverse apertured end portion, and a light bulb carried by said apertured end portion, said bracket unit maintaining said battery, switch and light bulb in electrical contact, said battery-gripping clamp including outwardly projecting parts spaced laterally from said elongated bracket portion and from each other in proportion to the dimensions of the interior of the body whereby they frictionally engage said body and press said elongated bracket portion against said body and thereby provide at least three circumferentially spaced contact points between said brackets and body to maintain said bracket unit in selected position in said body.

2,642,692
AUTOMATIC FISHING POLE RACK
William M. Smith, Cincinnati, Ohio
Application April 24, 1950, Serial No. 157,763
4 Claims. (Cl. 43—17)



2. For use with a fishing pole having a reel mounted thereon and a handle, a rack for the pole, said rack comprising an elongated member having a laterally projecting central portion, a supporting post received in said central portion and supporting the member for rotation, means at one end of said member supporting the forward portion of the pole, means at the other end of said member for receiving and holding the handle of the pole, means carried by the member engaging the reel to prevent sliding movement of the reel relative to the member, and a signal bell mounted on the member and disposed relative to the reel whereby a rotation of the reel will cause the reel handle to contact the bell to sound an alarm, said means for receiving and holding the handle of the pole including a spiral spring that is spaced above and parallel to the member.

2,642,693
APPARATUS FOR RETRIEVING FISHING TACKLE OR THE LIKE
Francis V. Broady, South Gate, Calif.
Application July 22, 1947, Serial No. 762,608
8 Claims. (Cl. 43—23)

1. A device subject to being submerged in water including, a tubular body, a cartridge having a releasable closure and received in the body, means engaged with the body releasably retaining the cartridge in the body, a balloon normally deflated and retained in the cartridge by the closure and anchored directly to the cartridge, and a gas generating charge in the cartridge subject to being activated by water and in communication with the balloon to deliver gas thereto and thereby float the device, said body being provided with lateral passages to admit water to the interior of

the body upon the device being submerged in the water, said cartridge including a check valve



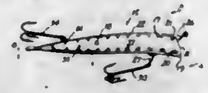
adapted to allow the entry of water from within the body to the charge.

2,642,694
FISHING DEVICE
Bedford Westerfield, Detroit, Mich.
Application January 11, 1952, Serial No. 266,040
4 Claims. (Cl. 43—35)



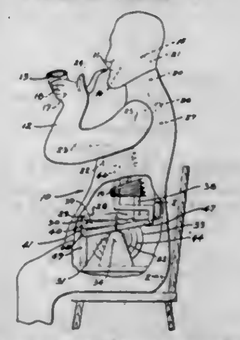
1. A fishing device comprising, a coiled spring member having a coil portion and a pair of arms extending outwardly from said coil portion, a fish hook having an eye, a shank and a barb, the eye of the hook being loosely secured to the outer end of one of said arms, an eye on the outer end of the other arm through which the shank of the fish hook is freely slidable, said second named arm being longer than said first named arm, a trigger arm having an eye loosely surrounding said second named arm and having its body portion extending outwardly in the direction of the outer end of said second named arm, resilient positioning means for said trigger arm, and a releasable latching means between said first named arm said trigger arm.

2,642,695
ARTIFICIAL FISHING LURE
Clifford M. Burns, Tacoma, Wash.
Application March 3, 1950, Serial No. 147,344
1 Claim. (Cl. 43—42.48)



A fishing lure comprising a body of greater length than width having its greater width at the forward end and having substantially the appearance of a fish, said body from a point substantially at the center thereof in its length to the rear end of the tail being substantially symmetrical and with a straight longitudinal axis, the remainder of the body in advance of that point having its upper surface convex longitudinally and a side surface concave longitudinally and its peripheral surface being substantially ovoidal in cross section, the upper portion of the cross section having a radius of curvature greater than the radius of curvature of the lower portion thereof, said body having a front face, the peripheral edge of which lies in a single plane and is at an acute angle to the longitudinal axis of the remainder portion of the body, said face inclining rearwardly from the upper end thereof to the lower end thereof and from one side thereof to an opposite side thereof, said body having securing means for a line, said securing means being attached to the front face thereof and offset with respect to the center of said face and adjacent the rear side edge of the front face, said body having a fishhook attached thereto on a side thereof and to the rear of said securing means.

2,642,696
SMOKING CHARACTER FIGURE
George H. Measmore, New York, N. Y.
Application March 18, 1950, Serial No. 150,444
1 Claim. (Cl. 46—9)



A smoking character figure, comprising a movable character figure having a mouth and an arm which holds a smoking pipe and which is movable in one direction to bring the smoking pipe to the mouth and which is movable in the opposite direction to move the smoking pipe away from the mouth, reciprocating drive means connected to said arm and causing it to move intermittently toward and away from the mouth and thereby causing the smoking pipe to move intermittently toward and away from the mouth, two separate smoke producers connected respectively with said smoking pipe and with said mouth, a separate bellows connected with each of said smoke producers for blowing smoke through said smoking pipe and said mouth, a pair of driven cams and a pair of cam followers engaging said cams, said cam followers being connected to the bellows for actuating the same in response to the cam action thereon, said cams being contoured for irregular cam action upon the cam followers to cause irregular actuation of the bellows in stroke and timing in order to blow smoke through the smoking pipe and mouth at corresponding time intervals and in varying quantities, said cams being synchronized with said reciprocating drive means to synchronize the blowing of the smoke with the movement of the arm.

2,642,697
DOLL WITH DRESS ENSEMBLE
Margaret B. Haskell, Buffalo, N. Y.
Application July 1, 1948, Serial No. 36,325
4 Claims. (Cl. 46—22)

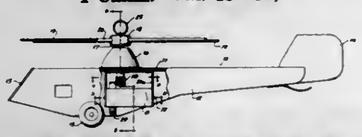
1. A doll having a flat body provided with a demountable head and demountable arms, and a dress ensemble associated with the body, the ensemble comprising a foundation member for placement upon the body after the removal of the demountable head and demountable arms, the

foundation member surrounding the doll body and being supported by the shoulders thereof,



and a dress made from any desired materials permanently attached solely to the foundation member.

2,642,698
TETHERED HELICOPTER TOP
Edward W. Fishburne, Chicago, Ill.
Application May 17, 1948, Serial No. 27,431
1 Claim. (Cl. 46—81)



In a toy helicopter, a hollow body, a hollow shaft rising from within said body, a propeller mounted on the upper end of said shaft, a pinion mounted on the lower end of said shaft within the body, a second shaft journalled horizontally within said body, a flywheel keyed on said second shaft, an annular flange on one side of said flywheel and having its free edge toothed and engaged with said pinion, a drum loosely mounted on said second shaft and including end flanges, a series of clutch arms pivoted on the outer side of one of the flanges of said drum for cooperation with the inner surface of the flange of said flywheel so transmit motion from said second shaft to said hollow shaft and the propeller, retractile springs interconnecting said clutch arms to normally hold the same lightly in engagement with the flange of said flywheel, a coil spring on said second shaft having one end secured to said body and its other end secured to the other of the flanges of said drum, a cord normally wound on said drum and having one end attached thereto and its other end passing upwardly through said hollow shaft, and means at the free end of said cord facilitating holding the cord to suspend the helicopter so that its weight will act to cause the cord to unwind from said drum and, at the same time, to place said coil spring under tension to affect the rewinding of the cord on the drum.

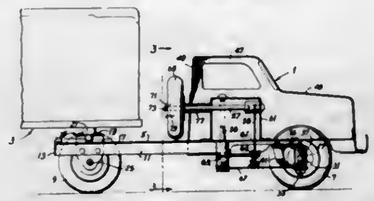
2,642,699
DUCK CALL
Carl D. Green, Orchards, Wash.
Application November 25, 1950, Serial No. 197,546
3 Claims. (Cl. 46—189)

1. A wooden duck call including a vibrator stick and an amplifying sound box, said stick comprising an elongated member of rectangular cross section having parallel transverse slots formed in one face thereof, said amplifier box comprising an elongated block of square cross section having



a cylindrical recess formed along its major axis and having one end of said box closed, the corners of said closed end constituting stick engaging portions.

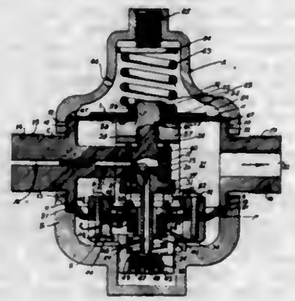
2,642,700
STEERABLE TOY TRUCK
Josef W. Zimmer, Glendale, Mo.
Application July 7, 1950, Serial No. 172,544
4 Claims. (Cl. 46—201)



1. A toy truck simulating a commercial closed-cab truck, comprising a toy chassis having removable model rubber-tired front and rear truck wheels, the front wheels being steerable, a closed cab at the forward end of the chassis, a steering rod extending substantially horizontally from within the cab through the back of the cab, a steering wheel removably mounted on the rod outside and in back of the cab immediately adjacent thereto and within the length of the chassis, said steering wheel comprising a model rubber-tired truck wheel like the front and rear wheels and simulating a spare tire, said steering wheel and said front and rear wheels being interchangeable, and steering gear interconnecting the steering rod and the front wheels.

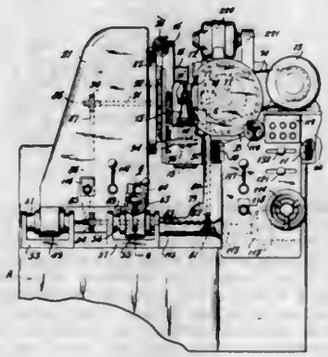
2,642,701
TWO-STAGE GAS PRESSURE REGULATOR
Monroe Harry Goodner, Glendale, Calif., assignor to Stephenson Corporation, Red Bank, N. J., a corporation of New Jersey
Application December 15, 1948, Serial No. 65,480
16 Claims. (Cl. 50—10)

2. In a two-stage gas pressure regulator for reducing pressure, a high pressure chamber, an intermediate pressure chamber, a low pressure chamber, a valve separating said intermediate pressure chamber from said low pressure chamber mounted on a flexible diaphragm, said valve having a passage through it for passing gas from said intermediate pressure chamber to said low pressure chamber, means defining a confined space around the outlet of said passage, between it and said low pressure chamber, and on the opposite side of said valve from said intermediate chamber, into which gas from said intermediate chamber is supplied and which tends to balance the



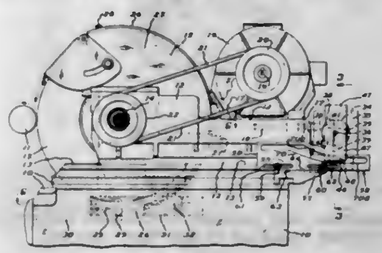
pressure exerted on the surface of the valve remote from said outlet by the gas in the intermediate chamber.

2,642,702
GEAR GRINDING MACHINE
Otis E. Staples, Euclid, Ohio, assignor to The Cleveland Hobbing Machine Company, Euclid, Ohio, a corporation of Ohio
Application March 8, 1951, Serial No. 214,540
8 Claims. (Cl. 51—52)



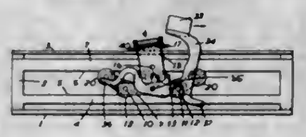
1. In a machine for finishing the teeth of gears, splines and the like by grinding, a rotatably supported grinding wheel spindle adapted to have a grinding wheel provided with a helical tooth or thread on its periphery connected thereto, a rotatable work spindle having its axis of rotation angularly disposed and offset with respect to the axis of rotation of the grinding wheel spindle and adapted to have gears and the like to be ground connected thereto, a first rotatable member supporting one of said spindles for pivoted movement, a slidable member supporting said rotatable member for movement in a direction normal to the axis of rotation of said first rotatable member, and a second rotatable member supporting said slide for pivotal movement about an axis parallel with the axis of rotation of said first rotatable member.

2,642,703
GRINDING WHEEL-SPEED CONTROL
Carl G. Flygare and Charles C. Alvord, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application August 18, 1951, Serial No. 242,443
8 Claims. (Cl. 51—134.5)



1. In a grinding machine having a base, a transversely movable slide thereon, feeding means operatively connected between the base and slide to feed said slide transversely relative to the base in either direction, a rotatable grinding wheel spindle on said slide, a grinding wheel thereon, an electric motor on said slide for rotating said spindle, a speed control device including an adjustable rheostat on said slide operatively connected to vary the speed of said motor, and means including a cam on said base and a follower on said slide operatively connected to actuate said rheostat in timed relation with the transverse movement of the slide to maintain a constant peripheral speed of the grinding wheel as it wears away.

2,642,704
APPLIANCE FOR STROPPING OR HONING RAZOR BLADES
William Henry Carter, Perry Barr, Birmingham, and Allan William Blackwell Patch, Erdington, Birmingham, England
Application October 27, 1948, Serial No. 56,874
In Great Britain August 12, 1948
15 Claims. (Cl. 51—159)

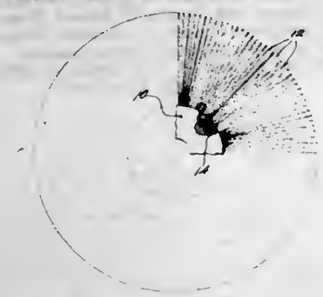


1. Appliance for sharpening razor blades including a frame having at its upper part two laterally-spaced upright limbs and an upper part, an abrasive surface on the upper part, two longitudinal guide rails one above the other on each of said limbs, a roller-mounted carriage supporting a blade carrier and traversible along said rails, a pair of longitudinally-spaced rollers for each guide, and spring means for pressing the several rollers against their respective guide rails.

2,642,705
POLISHING AND SANDING DEVICE
James L. Jensen, Cowley, Wyo.
Application April 19, 1951, Serial No. 221,839
1 Claim. (Cl. 51—190)

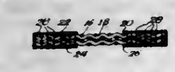
A polishing brush of the character stated, comprising a hub body, flexible fiber strands of ab-

sorbent material secured at their ends in the peripheral surface of the body to extend radially



therefrom, and particles of abrasive material absorptively retained in the fiber strands.

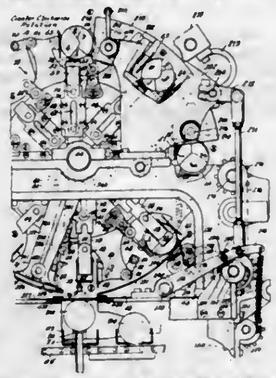
2,642,706
BIAS SISAL BUFF
Joseph R. Davies, Chicago, Ill.
Application February 24, 1950, Serial No. 146,049
12 Claims. (Cl. 51—193)



1. A buff section comprising a flat annulus of woven material whose woof and warp threads are substantially the same in number at the inner periphery as at the outer periphery of the annulus and whose mesh are reshaped and increasingly smaller toward the inner periphery so that the woven material lies substantially flat without pleats, and means for holding the woof and warp threads in said reshaped position.

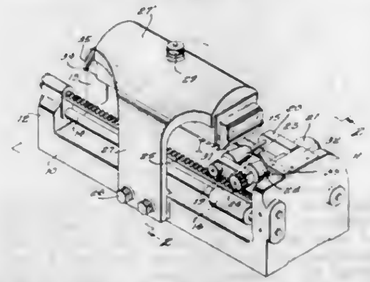
2,642,707
PACKAGE WRAPPING MACHINE
Oscar Sandberg, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana
Application January 29, 1949, Serial No. 73,489
22 Claims. (Cl. 53—42)

1. In a wrapping machine a rotor having a plurality of axially elongated article receiving pockets therearound having open ends and an open outer side, each of said pockets having a movable article gripping member, means for imparting intermittent rotation to said rotor to move the pockets thereof to successive stations each cycle of operation of the wrapping machine, an article carrying conveyor adapted to receive articles to be wrapped and to convey them to one of said stations, a ram at said station for moving the articles from the successive pockets of said conveyor and a wrapper therefor into the open sides of said pockets of said rotor, means to move the article gripping member of a rotor pocket receiving an article and wrapper to a position for reception of the article and wrapper, each pocket of said rotor having radially movable first end flap folder blades at the open ends of the pocket which are retained against movement as the article is moved by said ram into a pocket of the rotor, an arcuate first circumferential flap folder swingable on the shaft of said rotor across the open outer side of the pocket, stationary arcuate flap folder fingers adjacent the periphery of said rotor and extending from adjacent the station thereof that receives the article to adjacent the next station thereof, a heater shoe located at a station of said rotor beyond the ends of said fingers, a rock arm carrying said heater shoe, means for swinging said rock arm for moving said heater shoe toward the rotor while it is stationary, reciprocably mounted second end flap folder blades at the open ends of said pockets and positioned at another station of said rotor, means for moving said last blades inwardly of said rotor, projections engageable with said first end flap folder blades to move them out of the way of said second end flap folder blades, said projections being movable simultaneously with said second end flap folder blades, third end flap folder blades at the open ends of said pockets, means for mounting said last blades for rotary wiping movement over said second end flap folder blades, stationary arcuate shoes constituting fourth and flap folders at the open ends of said pockets as said rotor is further rotated, said shoes being spaced farther apart at their ends where the article and wrapper enter between them than at their other ends, said other ends being resiliently biased toward each other, said shoes including heaters for the ends of a wrapped package as the rotor is advanced and during the time it is stationary with a package intermediate the ends of said arcuate shoes, a second rock arm, a heater



carried thereby and engageable with said circumferential flaps while the package is at said last station, means for rocking said second rock arm simultaneously with the rocking of said first rock arm, means for checking whether or not there is a package at a station beyond said arcuate shoes, said last means comprising a pivoted arm to which movement is imparted each cycle of operation of the wrapping machine, said arm having a part to extend into a pocket of said rotor, labelling mechanism comprising a movable head for carrying a label to a position against the end of a package at the station beyond said checking means, means for producing a vacuum in said head, the face of said head being perforated in communication with said means to hold a label thereon, means for feeding a strip of labels to said head and cutting a label off said strip for each package, a clutch mechanism being operated by said checking means to in turn cause operation of said label feeding and cutting mechanism each time said checking means determines that there is a package at said station beyond said arcuate shoes, valve means for relieving the vacuum in said head when a label is being fed by said label feeding means to a position in front of said head, means to mechanically engage the label with said head until said valve is closed and the vacuum is established for holding said label to said head, said last means being moved out of the way after the vacuum is established and before said head is moved toward the package, said head being floatingly mounted by means of a spring connection for finding of itself a square seating against the end of the package, spring means at the opposite end of the package opposing said head, and means for discharging the wrapped and labelled package from said rotor.

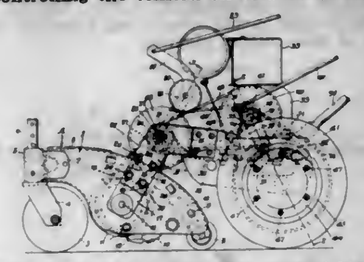
2,642,708
WRAPPING APPARATUS FOR ARTICLES OF CIRCULAR CROSS SECTION
Arthur Hess, Kriens, Canton Lucerne, Switzerland
Application January 8, 1952, Serial No. 265,499
12 Claims. (Cl. 53—117)



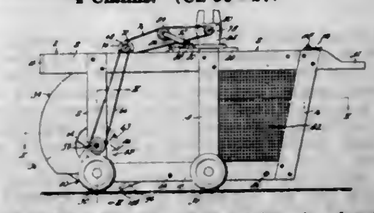
1. An apparatus for wrapping an article having a substantially circular cross-section in a foil, comprising in combination, a frame; guiding means arranged in said frame; slide means arranged movably along said guiding means; a pair of rollers arranged in said slide means transversely to the direction of motion thereof; a member arranged on said frame above and parallel to said guiding means and said slide means, said member extending over a portion of the length of said guiding means; and means for imparting a positive drive to one of said rollers during the motion of said slide means, said member having a counter face having a side portion curved toward said guiding means and said slide means whereby during the motion of said slide means along said guiding means a foil lying on said slide means is rolled by said rollers about an article lying between said rollers on the foil, said side portion of said counter face rolling a rim portion of the foil about one end of the article.

2,642,709
LAWN MOWER AND ACTUATING MEANS THEREFOR
Eugene L. Boyce and Milford D. Burrows, Chicago, Ill., assignors to Pioneer Gen-E-Motor Corporation, Chicago, Ill., a corporation of Delaware
Application May 14, 1949, Serial No. 93,294
5 Claims. (Cl. 56—26)

1. In combination, in a motor driven mower, a cutter chassis, ground engaging wheels therefor, and a cutter reel rotatably mounted thereon, a motor chassis connected to said cutter chassis, ground engaging wheels therefor, and a motor mounted thereon, a power transmitting shaft rotatably mounted between said motor chassis and said cutter chassis and supported on said motor chassis, said shaft having a pulley, and a clutch belt thereabout, a motor driven pulley about which said belt passes, controllable means for controlling the tension on said belt, including an actuating element and a control handle therefor, and a driving connection from said shaft to said cutter reel.

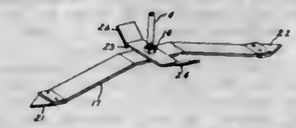


2,642,710
POWERED ROTARY RAKE
Artie S. Tucker, Independence, Mo.
Application March 2, 1951, Serial No. 213,555
4 Claims. (Cl. 56—27)



1. A rotary rake comprising a housing having an opening formed in the bottom thereof, wheels for supporting said housing for movement over the ground in spaced relation thereabove, a reel carried for rotation in said housing on an axis transverse to the direction of travel of the device, the lower portion of said reel projecting downwardly through said opening into close proximity with the ground, said reel including generally radial fan blades spaced peripherally thereabout and teeth projecting radially outwardly beyond the outer edges of said fan blades, a generally planar scoop disposed rearwardly from said reel and pivoted at its rearward edge to said housing on an axis parallel to said reel, said scoop sloping downwardly and forwardly to a point closely spaced from the ground and adjacent the lower portion of said reel, and means for limiting the pivotal movement of said scoop.

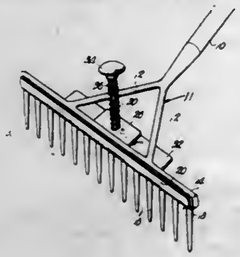
2,642,711
CUTTER AND BREAKER BAR FOR LAWN MOWERS
Lucius N. Smith and Alexander Smith, Montverde, Fla.
Application March 4, 1950, Serial No. 147,661
2 Claims. (Cl. 56—255)



1. In apparatus for cutting grass embodying a vertically disposed driven shaft and a horizontally disposed grass cutting member operatively connected to said shaft, the combination of a

breaker bar having upturned ends mounted on the shaft above the cutting member for rotation therewith and substantially normal thereto, the overall length of said breaker bar being less than that of said cutting member.

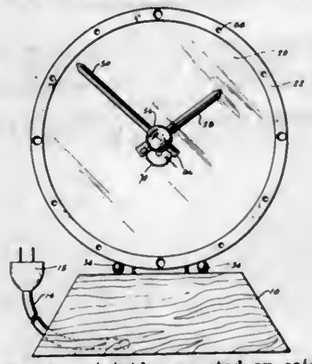
2,642,712
SELF-CLEANING RAKE
George E. Huff, Miami, Okla.
Application October 16, 1950, Serial No. 190,395
1 Claim. (Cl. 56—400.08)



A trash cleaner for a rake having a handle, and a T-shaped member having one leg thereof mounted on one end of the handle, the other leg of said member comprising an elongated bar having a series of teeth extending downwardly from the normally lowermost longitudinal edge thereof, said cleaner comprising a flat, normally horizontal plate integral with the bar and extending rearwardly from the normally rearmost face of the bar, an elongated, L-shaped element coextensive in length with the bar and having a normally horizontal leg and a normally vertical leg, there being a row of openings formed in said horizontal leg for receiving said teeth, the vertical leg of said element normally overlapping the normally forwardmost face of the bar, said horizontal leg of the element having an integral, rearwardly extending, plate-like, normally horizontal projection intermediate the ends thereof underlying the plate of said member, said horizontal leg being coextensive in width with the width of said lowermost edge of the bar, said vertical leg being coextensive in width with the width of said forwardmost face of the bar; an upstanding actuator rod fixed to the projection and extending through the plate of said member for sliding movement therein; a knob on the uppermost end of said rod; a spring coiled about the rod between the knob and the uppermost face of the plate of said member for yieldably holding the extension against the plate on the member and said horizontal leg of the element against said lowermost edge of the bar; and releasable means for attaching the knob to the rod.

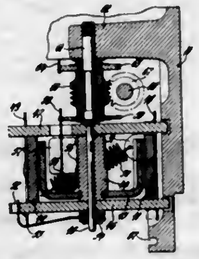
2,642,713
CLOCK
Leendert Prins, Bilthoven, Netherlands
Application June 27, 1949, Serial No. 101,510
In France September 10, 1948
23 Claims. (Cl. 58—2)

1. In a clock of the character described, driving means for the hour hand of the clock comprising in combination, a minute shaft, a minute shaft pinion secured thereto for rotation therewith, a balanced hour hand assembly rotatably mounted on said minute shaft and an unbalanced change gear assembly rotatably mounted on said minute shaft at a point adjacent said hour hand assembly for driving the latter from said minute shaft, said hour hand assembly comprising an hour hand, an hour gear, and a counterweight at one end of the hour hand for balancing said hour hand assembly whereby said hour hand assembly tends to remain in any angular position with respect to said minute shaft without reacting on said change gear assembly, said change gear assembly comprising a plate of substantial thickness and mass, and



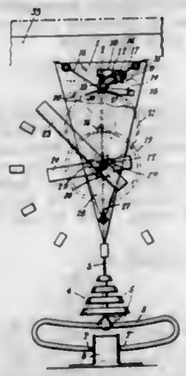
a change gear rotatably mounted on said plate and meshing with said minute shaft pinion and said hour gear, said plate being rotatably mounted on said minute shaft at a point offset from the center of gravity of said change gear assembly whereby said change gear assembly tends to seek a constant position irrespective of the angular position of said hour hand assembly, said plate being thereby adapted to be manually rotated out of said constant position in order to shift the position of said hour hand.

2,642,714
ELECTRIC CLOCK
Peter R. Contant and Raymond H. Sullivan, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 23, 1947, Serial No. 793,394
6 Claims. (Cl. 58—28)



2. In an electric clock having an electromagnet and timing mechanism for periodically energizing said electromagnet, a clock gear train including a ratchet wheel, and a driving mechanism for said ratchet wheel including a pair of poles on said electromagnet, bearing plates secured to said poles, an armature having a shaft pivotally mounted in said bearing plates, said armature being positioned between said poles and adapted to be moved in one direction upon energization of said electromagnet with spring means to move said armature in the opposite direction when said electromagnet is deenergized, a spring arm having one end secured to said armature shaft with the free end of said arm engaging within a slot in one of said bearing plates to resiliently retard and limit the movement of said armature in both directions, and a spring pawl carried by said armature engaging said ratchet wheel for driving said clock gear train responsive to periodic energization of said electromagnet.

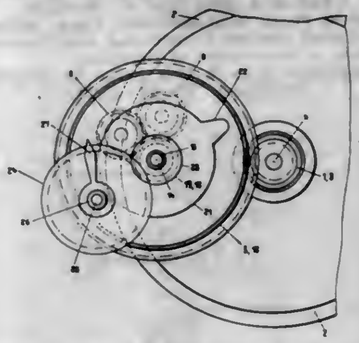
2,642,715
PENDULUM ACTUATED ELECTRIC CLOCK
Leon Robert, Jullouville les Pins, France
Application December 20, 1948, Serial No. 66,331
In France January 16, 1948
1 Claim. (Cl. 58—30)



An electric clock comprising a pendulum, electrically-energized means for oscillating said pendulum, a minute wheel fixedly mounted on a shaft, a first toothed wheel provided with a pin in driving engagement with the said minute wheel, a toothed hour wheel having circumferentially disposed teeth and rotatably mounted upon said shaft and rotatable by frictional engagement with said shaft, a vertically disposed fork member having spaced-apart prongs pivotally mounted about a fixed point below the said shaft and carrying adjacent the ends of said prongs a pair of pins engageable between the teeth of said hour wheel, an eccentric cam member mounted on said shaft between the spaced-apart prongs and engageable with the sides of said prongs to cause a regular oscillating movement of said forked member upon rotation thereof, and a pawl control means actuated by said pendulum and actuating in turn in a tooth by tooth manner said first toothed wheel.

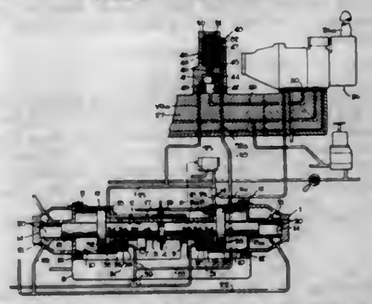
2,642,716
TIMEPIECE MOVEMENT COMPRISING A DIFFERENTIAL GEAR
Friedrich Meyer, Grenchen, Switzerland, assignor to Felsa A. G., Grenchen, Switzerland
Application May 15, 1951, Serial No. 226,362
In Switzerland March 14, 1951
2 Claims. (Cl. 58—85)

1. A timepiece movement comprising a barrel for a spring, an arbor for the barrel, a first pinion gear rigidly attached to the barrel and freely mounted on the barrel arbor, a second pinion gear rigidly attached to the barrel arbor outwardly of the first pinion, a driven hub member responsive to the degree of winding of the spring, a differential gear in driving connection with the first and second pinions for driving the hub member in one direction by rotation of the barrel and in the reversed direction by rotation of the arbor, the differential gear including a first drive wheel freely mounted and centered about the hub member and driven by the first pinion, a second drive wheel freely mounted about the hub member and driven by the second pinion, and two intermeshing planet wheels each having a hub and carried by one of the drive wheels, a first sun wheel



rigidly carried by the hub member in engagement with one of the planet wheels, a second sun wheel freely mounted on the hub member and rigidly carried by the other drive wheel in engagement with the other planet wheel, the planet wheels of equal diameter and each having a toothed rim lying unsymmetrically with respect to a plane extending through the middle of the hubs of the planet wheel, the end face of the hub of one planet wheel having the toothed rim closest thereto turned towards the drive wheel carrying the planet wheels so that clearance is had between the toothless portion of the rims of the planet wheels and the opposite sun wheel.

2,642,717
FLUID PRESSURE CONTROL APPARATUS FOR FREE PISTON MACHINES
Ralph T. Whitney, Irwin, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application December 9, 1947, Serial No. 790,547
4 Claims. (Cl. 60—14)



3. The combination with an internal combustion free piston engine comprising a casing having a reverse bounce chamber, of starting means for said engine comprising an operator's control

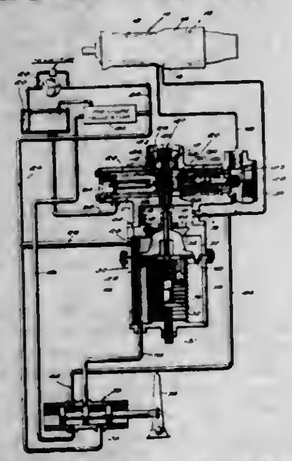
device operable to supply fluid under pressure to said reverse bounce chamber to start said engine, vent valve means operable by fluid under pressure to vent said reverse bounce chamber to atmosphere, and interlock means responsive to supply of operating fluid under pressure to said vent valve means to interrupt supply of fluid under pressure from said operator's control device to said reverse bounce chamber.

2,642,718

VARIABLE MINIMUM FLOW STOP

David R. Pearl, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application June 20, 1951, Serial No. 232,569
14 Claims. (Cl. 60—39.28)



1. In a gas turbine engine having a compressor and a combustion section, a throttle valve for regulating fluel flow to said combustion chamber including a movable member, means for moving said movable member, a stop for limiting the movement of said member in one direction, and means for adjusting said stop comprising pressure responsive mechanism and a conduit connecting said mechanism with said compressor.

4. In a variable stop mechanism for a flow regulating valve, said valve having a movable valve member, means for limiting the movement of said member in one direction comprising a stop engageable with said member, and means for adjusting said stop comprising an evacuated bellows urging said stop in one direction and a second bellows urging said stop in another direction, and a spring urging said stop in said other direction.

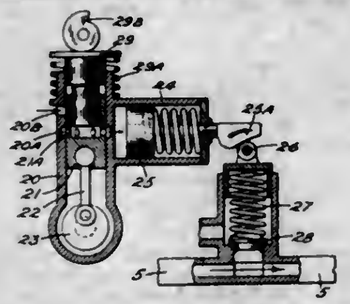
2,642,719

ENGINE FUEL CONTROL FOR INTERNAL EXPANSION ENGINE FUEL SYSTEMS

Daniel Norman Walker, Ashby Parva, near Rugby, England, assignor to Power Jets (Research & Development) Limited, London, England

Application October 30, 1945, Serial No. 625,550
In Great Britain August 14, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires August 14, 1962
6 Claims. (Cl. 60—39.28)

1. A fuel flow control system for airplanes comprising an engine, a fuel pump, a fuel supply line connecting said fuel pipe and engine, a fuel regulator in said line, an expansible chamber positive displacement air compressor having a chamber, said compressor being driven from said engine at a speed in fixed proportion to the speed of the engine, means defining a closed pressure zone, the chamber of said compressor being alter-



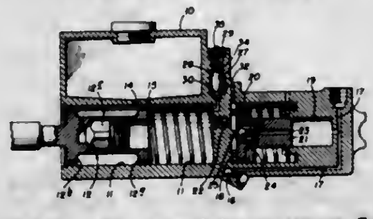
nately in free communication with atmosphere and said closed pressure zone, and means movable in response to pressure changes in said zone for actuating said regulator.

2,642,720

COMPOUND MASTER CYLINDER UNIT FOR HYDRAULIC SYSTEMS

Clinton E. Deardorff, San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application February 21, 1950, Serial No. 145,455
2 Claims. (Cl. 60—54.6)



1. Apparatus for supplying pressure fluid to a hydraulic system comprising: a main pump cylinder containing a main pump piston normally retracted and adapted to be advanced by external force to discharge fluid from said main pump cylinder; a discharge passage adapted to be connected to a load line, and a pump discharge check valve connecting said main pump cylinder to said discharge passage for flow from said cylinder to said passage; a booster motor cylinder connected to said main pump cylinder by a return-flow check valve for permitting flow from said booster motor cylinder to said main pump cylinder; a normally retracted booster motor piston in said booster motor cylinder adapted to be advanced by fluid flow into said booster motor cylinder; a booster pump cylinder of smaller bore than said booster motor cylinder and connected to said discharge passage; a normally retracted booster pump piston in said booster pump cylinder and means for advancing it to expel fluid from said booster pump cylinder into said discharge passage in response to advance of said booster motor piston; a pressure responsive booster pump control valve communicating said main pump cylinder with said booster motor cylinder in response to pressures in said main pump cylinder above a predetermined value; a passage intercommunicating said booster motor and booster pump cylinders, and an auxiliary return flow valve in said last mentioned passage for blocking flow from said booster pump cylinder to said booster motor cylinder except when said booster pistons are in their retracted positions; said auxiliary return flow valve consisting of a

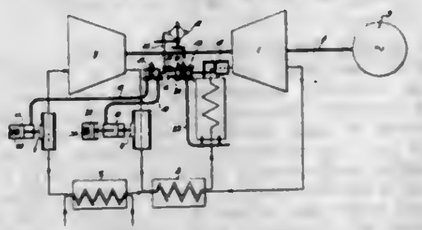
check valve directed to permit flow from said booster motor cylinder to said booster pump cylinder in all positions of said booster pistons, and stop means for engaging said check valve and opening it for fluid flow therethrough in both directions in response to movement of said booster pistons into retracted position.

2,642,721

CLOSED CYCLE ELASTIC FLUID COMPRESSOR-TURBINE PLANT AND CONTROL THEREOF

Dennis Hainsworth Mallinson, Fleet, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company

Application January 25, 1949, Serial No. 72,564
In Great Britain January 29, 1948
4 Claims. (Cl. 60—59)



1. A power plant comprising an air compressor, an air heater, an air turbine for delivering the useful power output of the plant, a closed circuit connecting said compressor, heater and turbine having a high pressure portion between the compressor outlet and heater inlet and the heater outlet and turbine inlet and a low pressure portion between the turbine outlet and compressor inlet, an air outlet valve in said high pressure portion and an air inlet valve in said low pressure portion each communicating directly with the atmosphere, and means controlling said valves in response to changes in the load on the plant so that on increase in load said inlet valve only is opened, said high pressure portion of the closed circuit remaining closed, while on decrease in load said outlet valve only is opened, said low pressure portion of the closed circuit remaining closed.

2,642,722

LUBRICATION OF STEAM CYLINDERS

Samuel Clyde Vaughn, Berkeley, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 25, 1949, Serial No. 95,377
9 Claims. (Cl. 60—64)

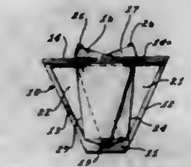
6. The method of lubricating the cylinders of reciprocating steam engines operating on saturated steam while recovering exhaust steam for boiler feed water, which comprises spraying into saturated steam supplied to a reciprocating steam engine a refined oil having a viscosity at 210° F. of 50 to 70 S. U., supplying to said steam as a component of said oil from 0.007% to 0.03% of alkyl acid phosphate having from 8 to 18 carbon atoms per alkyl group whereby said phosphate causes said oil to form a temporary emulsion with moisture in the cylinders of said engine under operating conditions, condensing the exhaust steam, permitting the resulting condensate and oil emulsion to settle, decanting the resulting water layer from the resulting oil layer and introducing said water into a boiler as feed water.

2,642,723

IRRIGATION DITCH BLOCK

George Reismann, Litchfield Park, Ariz.

Application September 24, 1951, Serial No. 247,973
7 Claims. (Cl. 61—29)



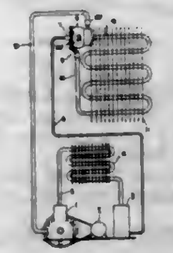
1. An irrigation ditch block comprising, a rigid frame structure having, a horizontal bottom member, a pair of obliquely disposed side members connected at their bottom ends to said bottom member, and a horizontally disposed top tie member connected to the top ends of said obliquely disposed side member forming an opening symmetrical with and slightly smaller than the cross section of said ditch where engaged by said block, and a pair of laterally swinging adjustable flow control gates pivotally mounted at their lower ends at the midpoint of said lower horizontal member so as to provide flow controlled openings between said gates and said oblique side members.

2,642,724

INSERT TYPE THERMOSTATIC EXPANSION VALVE

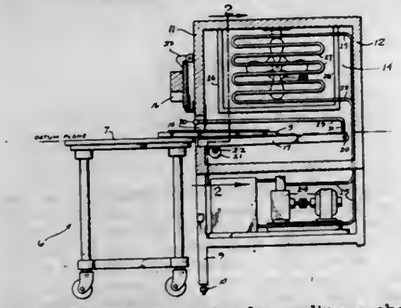
Franklyn Y. Carter, Dearborn, Mich., assignor to Detroit Controls Corporation, Detroit, Mich., a corporation of Michigan

Continuation of applications Serial No. 648,222, February 18, 1946, and Serial No. 657,747, March 28, 1946. This application July 20, 1949, Serial No. 105,861
18 Claims. (Cl. 62—8)



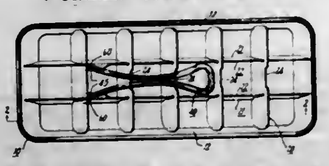
1. An expansion valve comprising a casing having an open end portion, a cover member for said open portion, a partition member dividing said casing into a suction line chamber and a refrigerant supply chamber, a valve member for controlling admission of refrigerant to said refrigerant supply chamber, responsive means open to said suction line chamber and responsive to the temperature and pressure of the refrigerant passing therethrough, means operatively connecting said responsive means to said valve member and operable to move said valve member upon movement of said responsive means, and said cover member, said partition member, said valve member, said responsive means, and said connecting means being operatively interconnected as a unit for insertion or withdrawal from said casing.

2,642,725
CHASE AND FORM COOLER
Herman E. Greenburg, Portland, and Oscar H. Olson, Garden Home, Oreg.
Application February 18, 1952, Serial No. 272,198
9 Claims. (Cl. 62—11)



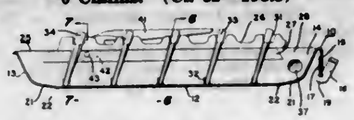
1. A refrigeration device for cooling a chase, comprising an insulated hollow cabinet having a cooling compartment therein, refrigeration means mounted within said compartment for circulating refrigerated air thereabout, said cabinet having an opening through one wall thereof providing access to the cooling compartment, a substantially horizontal heat conductive slab extending laterally across said cooling compartment and terminating within the bounds of said opening, said slab having a smooth plane top surface and an irregular bottom surface, pivot means lying parallel and closely adjacent to a fixed horizontal datum plane and joined to that margin of the top surface of the slab which is remote from said opening to mount the slab for pivotal movement about the said margin, and actuation means for pivoting said slab between a lower position in which said plane top surface is below said datum plane and a raised position in which the top surface is above the datum plane, the angle traced by the pivotal movement of said slab between said positions being bisected by said fixed datum plane.

2,642,726
FREEZING TRAY
Arthur J. Frei, Sr., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 31, 1950, Serial No. 182,499
7 Claims. (Cl. 62—108.5)



1. A freezing tray having a container pan and a partitioning grid for said pan, said grid comprising: a longitudinal partition wall, a plurality of cross partition walls each having a slot therein thru which a portion of said longitudinal wall extends, said cross walls being tiltable forward relative to said longitudinal wall to loosen them from their bond to the frozen contents of the freezing tray, a hand lever pivoted upon said longitudinal wall adjacent one of said cross walls and having a cam thereon for directly contacting and tilting forward said one cross wall to loosen it from the frozen contents bonded thereto, and mechanical means interconnecting said cross walls and directly actuated by the tilting movement of said one cross wall only after a predetermined movement thereof for tilting forward additional cross walls.

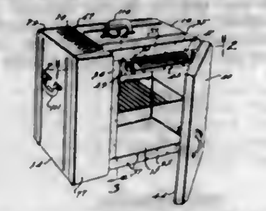
2,642,727
FREEZING PAN
Arthur J. Frei, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 11, 1952, Serial No. 292,897
6 Claims. (Cl. 62—108.5)



1. A grid for an ice tray comprising, a longitudinal sectional partition and a plurality of walls movably interlocked with said partition and extending transversely thereacross in spaced relation to one another, said grid cooperating with the tray to form compartments in which a liquid is to be frozen into ice blocks, said transverse walls normally lying in similar planes inclined from the vertical and adapted to be tilted toward the vertical, said longitudinal partition including a lower member, an upper member and an intermediate metal member, said metal intermediate member being interlocked with said lower member to prevent lengthwise movement thereof relative thereto, said partition being constructed to position the bottom edge of said upper member thereof at or above the horizontal plane of the top of upright walls of the tray to retain said upper member out of contact with liquid in said compartments, a lever pivotally mounted to said metal intermediate member, said lever having a camming surface directly contacting one of said transverse walls at an end of said grid, said lever being unattached to said upper member and acting solely between said one transverse wall and said intermediate metal member of said partition to initiate a tilting movement of said one wall toward the vertical, said upper member of said longitudinal partition having a connection with said one transverse wall and other portions thereof cooperating with and adapted to engage additional transverse walls of the grid, and said upper member being forcibly moved lengthwise relative to other members of said partition by and only after said lever has contacted and moved said one transverse wall through said initial tilting movement thereof for causing said other portions of the upper member to contact each of said additional transverse walls and tilt same toward the vertical.

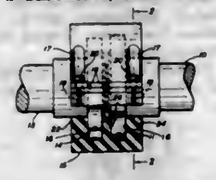
2,642,728
PORTABLE REFRIGERATOR CONSTRUCTION
Brinsie A. Thomaras, Detroit, Mich.
Application February 27, 1950, Serial No. 146,479
5 Claims. (Cl. 62—116)

4. A portable refrigerator construction including a cabinet having a cooling compartment and a mechanism compartment, a vertical partition separating said compartments, the mechanism compartment having openings near the bottom and near the top thereof, individual, separately openable, substantially coplanar front door panel portions closing the fronts of said compartments, a fixed vertical wall closing the rear of said cooling compartment, coplanar removable finishing wall panel portions covering the rear of said mechanism compartment and extending behind and spaced from said fixed wall and coacting therewith to define a stacklike condenser compartment behind the cooling compartment, said



finishing wall panel portions having openings near the top and near the bottom thereof, and interconnected refrigerating means including a compressor in said mechanism compartment, a condenser in said condenser compartment, and an evaporator in the cooling compartment.

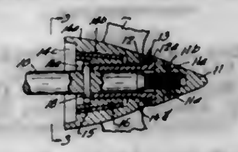
2,642,729
SHAFT COUPLING
Harry E. Strausser, Middle River, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 27, 1948, Serial No. 62,392
2 Claims. (Cl. 64—11)



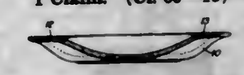
2. A flexible, detachable coupling for connecting an end of a driving shaft with an aligned and closely spaced end of a driven shaft, which comprises a pair of sprockets secured one for each to the closely spaced ends of said shafts, each of said sprockets having a plurality of teeth which are directed radially outwardly with repect to the shafts, a cylindrical, elastic sleeve composed of an elastomeric compound and having a longitudinal split on only one side thereof leading to internal indentations matching the teeth on the sprockets so that the sleeve may be removably positioned to envelope the sprockets, and a pair of connecting elements anchored to the faces formed by the split in the sleeve for fastening said faces together to secure the sleeve in position when it envelopes the sprockets.

2,642,730
PROPELLER CLUTCH STRUCTURE
Merton F. Snyder, Minneapolis, Minn., assignor to Scott-Atwater Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application June 9, 1948, Serial No. 31,907
7 Claims. (Cl. 64—38)

1. A propeller clutch mechanism having in combination, a shaft, an abutment means at one end of said shaft, a sleeve on said shaft engaging said abutment, a propeller having a hub with a frusto-conical recess therein surrounding said sleeve, a bushing fitting in said recess a frusto-conical shell movable longitudinally on said sleeve and engaging the inner wall of said bushing, a pin extending through said shaft, said shell and sleeve having means for receiving said pin, said pin acting to hold said shell in position longitudinally of said sleeve and thus the position of said shell determines the amount of friction of said shell on said propeller, said pin also acting as a shear pin for said propeller.

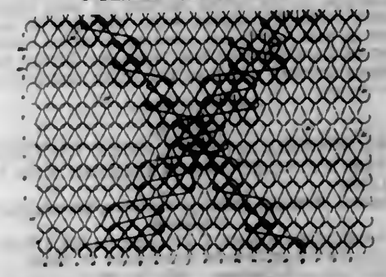


2,642,731
SAUCER
Anthony Valenti, Rochester, N. Y.
Application June 4, 1951, Serial No. 229,693
1 Claim. (Cl. 65—15)



A saucer having a central circular well to receive the base of a cup, said saucer being flared upwardly from said well to its periphery, the flared portion of said saucer having therein two separate, longitudinally-spaced recesses having concavely-curved bottoms, said recesses being aligned along a line extending approximately medianly of the recesses and offset from said well and constituting a chord of a circle concentric with said well, said recesses being adapted to receive, respectively, the handle and the bowl of a spoon, said chord lying outside said well, and said recesses being spaced a distance apart greater than the diameter of said well and being of generally elliptical shape and having their major axes extending in a direction generally circumferential of said well.

2,642,732
KNITTED ARTICLE OF HOSIERY
Paul L. Thurston, Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey
Application December 26, 1951, Serial No. 263,229
9 Claims. (Cl. 66—179)



1. In an article of hosiery, a circular seamless leg portion comprising a plurality of circular knit courses, each of successive courses comprising a portion knit of one body yarn, a second portion knit of a different body yarn, said portions abutting one another and terminating in adjacent wales, and wrap yarn knit with the body yarn

at a plurality of successive stitches including at least one stitch of said first portion and at least one stitch of the second portion, said portions being joined to one another by said warp yarn.

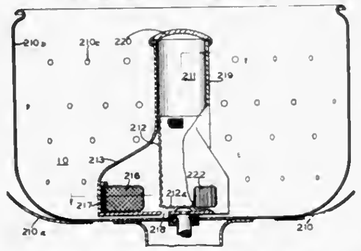
2,642,733

CLOTHES WASHING MACHINE AND AGITATOR THEREFOR

Francis H. McCormick and Kendall Clark, Oakwood, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Original application July 26, 1943, Serial No. 496,102. Divided and this application June 16, 1949, Serial No. 99,484

2 Claims. (Cl. 68—134)



1. A washing machine comprising, a tub, an agitator in said tub, means for oscillating said agitator about a vertical axis, said agitator having an upper hollow portion and a lower portion including radially extending hollow vanes communicating with said upper hollow portion thereof, fluid flow restraining means in the upper portion of said agitator and having relatively small passageways for arresting scum and particles, a set of spaced apart liquid inlet openings in the upper portion of said agitator adjacent said restraining means and being larger than said passageways therein, said set of inlet openings being sufficiently small to prevent clothes in said tub from contacting said restraining means, said hollow vanes having a closed bottom wall, closed spaced apart upright side walls and an outer wall connecting said side walls, a set of spaced apart liquid outlet openings in the outer connecting wall of each of said vanes, the closed upright side walls of said vanes causing, when said agitator is oscillated, a major circulation of fluid in said tub outside the agitator, and said set of openings in the upper portion of said agitator being vertically spaced from the sets of openings in said vanes for creating a minor circulation of fluid through said agitator, during oscillations thereof, which is filtered by said restraining means.

2,642,734

KEY LOCKED SLIDABLE BOLT FASTENING FOR ATTACHÉ AND SUITCASES AND THE LIKE

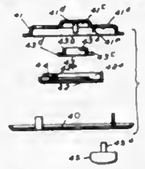
Charles William Cheney, Hockley, Birmingham, England

Application August 1, 1950, Serial No. 176,972

In Great Britain September 17, 1949

2 Claims. (Cl. 70—67)

1. A button type bolt fastening of the kind described, comprising a casing consisting of front and back plates rigidly connected, said front plate having a key opening and a hasp opening and said back plate having a stationary key peg, a circular seating concentric with said peg and a rear stop lug at the boundary of said seating, a bolt slidable within said casing, a button slidably mounted on the face of said casing and connected to said bolt through openings in said face, said bolt having a boundary flange and a central, forward abutment lug and being formed with a clearance opening for the passage of a key to engage said key peg, a spring carried by said bolt and disposed between said boundary flange and said abutment lug, a rotary key operated ring-like locking member engaging said seating



in said back plate, said locking member being provided with internal key stumps and an external bolt shooting and locking nose adapted to snap engage said spring and to operate against said abutment lug for shooting and locking said bolt, and said locking member being also provided with stops to co-operate with said stop lug on said back plate to limit the revolution of said locking member in its locking and unlocking positions.

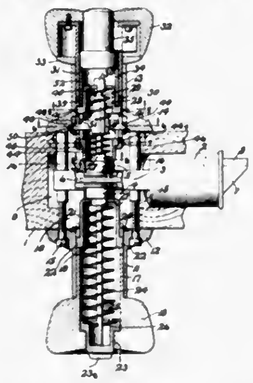
2,642,735

KEY-IN-KNOB LOCK

Herbert Quigley, Hastings, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan

Application September 2, 1948, Serial No. 47,438

10 Claims. (Cl. 70—146)



4. Operating means for a latch bolt having a retractor and inner and outer independently movable, centrally apertured, roll-backs for retracting the same comprising, inner and outer centrally apertured knobs, each knob having a cylindrical shank, inner and outer shells in which the shanks of said knobs are rotatably mounted, means for connecting the inner knob to the inner roll-back, a hollow cylindrical operating member rotatably mounted in the outer knob, and connected to the outer roll-back, a notch at the inner side of the outer shell, a longitudinal slot in the shank of the outer knob, a corresponding longitudinal slot merging into an arcuate slot in the wall of the operating member, a locking bar extending through the slots in the knob shank and the operating member, a push rod operable at the inner knob and connected to said locking bar whereby said locking bar may be moved to a first position in which it is located in the notch in the outer shell, the longitudinal slot in the shank of the outer knob and the arcuate slot in the operating member, in which position the outer knob shank is locked against rotation and the operating member is free to oscillate, and to a second position in which said locking bar is removed from said notch and is in both of said longitudinal slots in which position the outer knob is free to rotate and the operating member is connected for rotation with the knob shank, and key operated means in the outer knob connected with said operating member and adapted to lock or unlock the operating member to the knob.

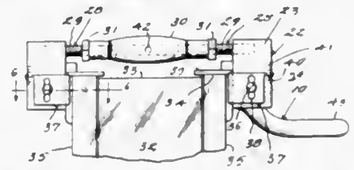
2,642,736

MORTAR STRIP POSITIONING FRAME

Henry M. Peper and Karl H. Tengstedt, Baltimore, Md.

Application May 16, 1950, Serial No. 162,306

4 Claims. (Cl. 72—128)



4. A device for positioning a strip of mortar on a course of masonry comprising a pair of side members engageable with opposite sides of the masonry course, each of said side members being formed with a planar top portion, a strip carried by and transversely adjustable of each said top portion members having an inner edge disposed above the plane of said side members, said strips being movable transversely to extend said inner edges inwardly of said side members, and transversely disposed handle means extending between said side members.

2,642,737

APPARATUS FOR INVESTIGATING THE WATER CONTENT OF A GAS

John Kinsella, Luton, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain

Application December 27, 1949, Serial No. 135,058

In Great Britain January 4, 1949

4 Claims. (Cl. 73—29)



1. Apparatus for investigating the liquid water content of a gas stream comprising at least one cylinder of low heat conductivity electrical insulating material, metallic electric terminals embedded in the surface of the cylinder, a thermocouple embedded in the surface of the cylinder with its junction projecting a small distance beyond such surface, a metallic layer applied to a limited area of the upstream surface of the cylinder and overlapping and making intimate contact with the electrical terminals and the junction of the thermocouple, means for connecting the terminals to a source of electric current whereby a heating current may be passed through the metallic layer and means for connecting the thermocouple to apparatus sensitive to the electro-motive force generated by it.
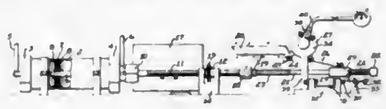
2,642,738

APPARATUS FOR MEASURING THE SPECIFIC GRAVITY OF A GAS

Jonathan S. Powell, Jr., South Pasadena, Calif.

Application January 11, 1947, Serial No. 721,639

4 Claims. (Cl. 73—30)



1. An apparatus for measuring the specific gravity of a gas, which comprises an orifice, a cylinder, a piston movable in said cylinder, means for alternately introducing air into one side of said cylinder and discharging the air therefrom while alternately discharging gas to be measured from the other side of said cylinder and introducing the gas thereto, means for alternately connecting the same said orifice with the discharged air and gas, a pressure gauge for measuring the pressure at said orifice, and means for alternately driving said piston at predetermined constant linear rates said means including a rod connected to said piston having a threaded portion and a synchronous motor rotating a member threaded thereto, whereby the piston may be driven at a constant linear speed, and means for reversing said motor.

2,642,739

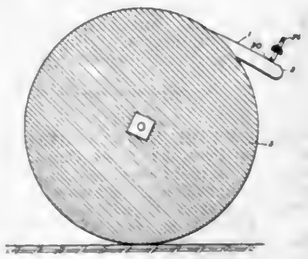
METHOD OF TESTING ELECTRIC CABLE SHEATHS

Jose M. Gomez-Diez, Maliano (Santander) Spain, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application August 24, 1949, Serial No. 111,996

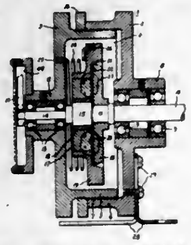
In Great Britain August 27, 1948

3 Claims. (Cl. 73—40)



1. A method of testing the sheath of electric dry core type cable that comprises sealing both ends of a cable length whilst it is at a first temperature, allowing the sealed length to cool to a second temperature lower than the first temperature thereby creating a reduced pressure inside the cable sheath if free of leaks, and then comparing the pressure inside and outside the sheath of the said cable length.

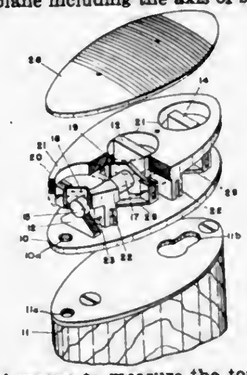
2,642,740
TORQUE MEASURING DEVICE
Hugh M. Stephenson and Karl M. Feiertag, Fort Wayne, Ind., assignors to General Electric Company, a corporation of New York
Application December 31, 1949, Serial No. 136,266
2 Claims. (Cl. 73—134)



1. A torque measuring device comprising a stationary frame member, another frame member, a rotatable input shaft journaled in said stationary frame member for connecting said measuring device to a rotating machine to measure the torque thereon, a rotatable indicating shaft journaled in said other frame member coaxially with said input shaft, an armature member mounted on said input shaft, a permanent magnet assembly including an annular permanent magnet mounted on said indicating shaft and defining an axial air gap with said armature member, said air gap having a magnetic fluid arranged therein adapted to be solidified by the permanent magnet flux traversing said air gap for providing a torque demand on said input shaft, a calibrated coil spring surrounding said indicating shaft and having one end secured to said other frame member and its other end secured to said permanent magnet assembly for normally holding said permanent magnet assembly in a zero position with respect to said other frame member and for resisting the turning of said assembly away from said zero position whereby the angular displacement of said permanent magnet member indicates the torque demand on said rotating machine when said input shaft is connected thereto, a scale of torque indications on said other frame member, and indicator means on said indicating shaft cooperating with said scale for showing the angular displacement of said permanent magnet assembly, said other frame member coaxially threadingly engaging said stationary frame member thereby to adjust the width of said gap to vary the torque demand on said input shaft.

2,642,741
TRANSIENT FORCE MEASURING DEVICE
Francis G. du Pont, Fairfield, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application March 14, 1951, Serial No. 215,601
12 Claims. (Cl. 73—167)

1. For use in a system including a force receiving member and a force transmitting member, a transient force measuring device comprising in combination an axle rigidly supported relative to one of said members, said axle extending transversely to the axis along which the force to be measured is applied; a tubular sleeve rotatably supported on said axle; radially extending flange means on each end of said sleeve and formed integrally therewith; first attachment means pivotally securing the other one of said members to a point on one of said end flanges; second attachment means pivotally securing said other one of said members to a point on the other of said end flanges, said points of first and second attachment being substantially equidistant from opposite sides of a plane including the axis of said tubular



sleeve; and means to measure the torsion strain in said tubular sleeve as force is transmitted therethrough from one of said members to the other of said members.

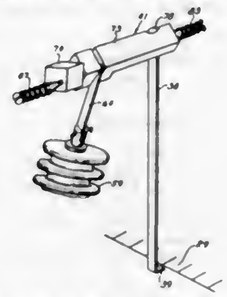
2,642,742
APPARATUS FOR MEASURING TEMPERATURE
Hermann Heidenwolf, Neumarkt, Steiermark, Austria, assignor to Lapp-Finze Eisenwarenfabriken-Aktiengesellschaft, Kalsdorf (Graz), Austria
Application September 5, 1947, Serial No. 772,439
In Austria February 25, 1947
7 Claims. (Cl. 73—339)



1. In an apparatus for measuring temperature, in combination, a permanent magnet mounted for displacement along a predetermined path, a stationary ferromagnetic element extending along said path and forming part of a magnetic circuit for lines of force extending from said magnet, said ferromagnetic element having a temperature dependent magnetic reluctance and being of progressively varying cross section whereby the amount of flux passing through said circuit will depend upon the position of said permanent magnet along said path and a force will be exerted tending to displace said magnet in the direction of increasing flux, balancing means tending to displace said magnet in the direction opposite said direction of increasing flux, and indicator means coupled with said magnet.

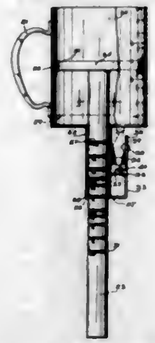
2,642,743
INSTRUMENT POINTER ACTUATING MECHANISM AND ADJUSTMENT
Heinrich Hermanny, Valley Stream, N. Y.
Application March 18, 1947, Serial No. 735,331
13 Claims. (Cl. 73—410)

1. In an instrument, a pointer connected rocker member pivotally supported at opposite ends for rocking on a longitudinal axis, said rocker member comprising two end sections connected by an intermediate section, and an actuator link pivotally connected to one of said end sections



on an axis adjacent and slightly inclined with respect to the pivot axis of said rocker member, said intermediate section being torsionally adjustable to change the distance between said axes.

2,642,744
ADJUSTABLE MEASURING CUP
Samuel L. Thomas, Woodside, N. Y.
Application July 14, 1948, Serial No. 38,641
2 Claims. (Cl. 73—429)

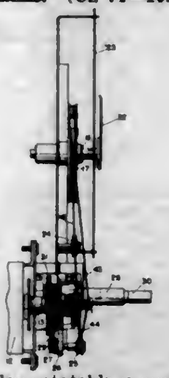


1. A device of the class described, comprising an open-top cup, a sleeve fixedly depending concentrically from said cup, a piston movable in said cup for varying its fill-capacity, a rod fixedly depending from said piston and slidably extended through said sleeve, a manually adjustable means for fixing the piston at any one of a predetermined number of different locations in said cup, said means including a spring-urged detent movably carried by said sleeve and a plurality of annular grooves spaced along the length of said rod and engaged by said detent, a portable stand having a substantially horizontal top in the form of a ring supported in an elevated position on legs and on which the cup bottom may be placed with said sleeve depending through the ring opening, means retaining said cup against lateral shifting relative to said ring, and a manually operable means carried by said stand near said ring for moving said detent against the urge of its spring thereby to release said adjustable means, said manually operable means comprising a screw threaded through one of said legs on the level with said detent when said cup rests on said ring to be tightened against said detent.

2,642,745
METHOD FOR DETERMINING BRAN IN CEREAL FLOUR
Roger A. Larkin, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 8, 1952, Serial No. 297,800
7 Claims. (Cl. 73—432)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method for determining bran and germ particle constituents in cereal flours comprising treating a given samle of flour material with a 0.04–0.07 percent aqueous solution of Crystal Violet whereby to dye bran and germ particles present in said flour material together with other material present, effecting differential decolorizing by treating the mixture with an aqueous solution of alkali until substantially all other constituents are decolorized, separating the solid material from the resulting alkaline solution and subsequently determining the amount of bran and germ particle constituents.

2,642,746
TELEVISION TUNING DEVICE
George D. Hulst, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application December 21, 1950, Serial No. 201,907
7 Claims. (Cl. 74—10.7)

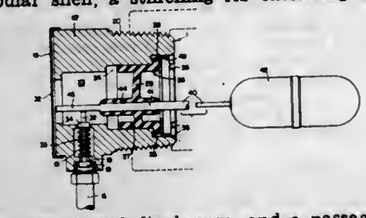


1. A drive pulley rotatably mounted to revolve about an axis and comprising a first cylindrical portion having an outer surface equidistant from said axis, a second cylindrical portion having an outer surface coaxial with said first portion but differing in diameter therefrom, a transition portion located between said first and second portions and having an outer surface contiguous with said outer surfaces of said first and second portions, and a flange along the edge of said outer surfaces extending tangentially therefrom, separating adjacent turns thereof, and extending the entire axial length thereof.

2,642,747
AIR VOLUME REGULATOR
Ambrose E. Le Van, Sellersville, Pa., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware
Application December 4, 1946, Serial No. 714,114
The portion of the term of the patent subsequent to August 26, 1969, has been disclaimed
5 Claims. (Cl. 74—18.1)

1. A unitary flexible body having a tubular shell, a diaphragm extending across said shell, a

single outwardly extending annular flange on said tubular shell, a stiffening rib extending across



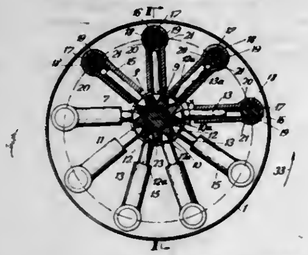
one side of said diaphragm, and a passage extending through said diaphragm and rib.

2,642,748

MECHANICAL MOVEMENT IN HYDRAULIC MOTORS

Leo Peter Widmer, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland

Application December 1, 1949, Serial No. 130,385
In Switzerland January 15, 1949
4 Claims. (Cl. 74—49)



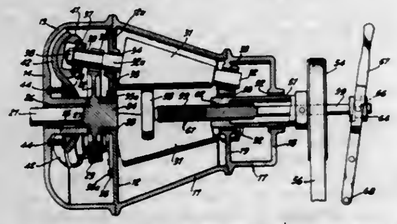
1. In an expansible-chamber type motor in which the pistons and cylinders are disposed starlike about the crank-shaft and the pistons engage a common star ring mounted on the crank pin, the improvement which comprises providing the said star ring with V-cuts of a number equal to that of the cylinders, and wedge-shaped foot portions on the pistons adapted to engage the said cuts, the knife edge of the piston foot portions being parallel to the axis of rotation of the crankshaft.

2,642,749

VARIABLE RATIO FRICTION DRIVE

Homer J. Wood, Sherman Oaks, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California

Application August 19, 1947, Serial No. 769,499
7 Claims. (Cl. 74—191)



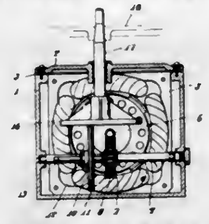
1. In a variable speed power transmission, the combination of a power input shaft, a power output shaft, and power transmitting means therebetween including a plurality of axially shiftable frusto-conical members, driving connnections between one of said shafts and said members including means to provide an axial thrust upon each member proportional to the torque transmitted, means to exert an axial thrust on each of said members in opposition to the thrust provided by said driving connections, and a roller member in contact with said frusto-conical members and carried by the other of said shafts.

2,642,750

PHONOMOTOR OR A SMALL-TYPE ELECTRIC MOTOR FOR PHONOGRAPHS

Saburo Akai, Ohta-Ku, Tokyo, Japan

Application August 9, 1950, Serial No. 178,432
In Japan October 22, 1949
2 Claims. (Cl. 74—194)



1. A phonograph comprising a casing which has a base and upstanding transverse side walls, a cover mounted on the tops of said side walls and separated therefrom by shock absorbers, a motor mounted within said casing, said motor having a longitudinally extending driven worm shaft, a second shaft which extends laterally and which is turnably mounted in said casing, a worm wheel mounted on said second shaft, said worm wheel comprising a compressed felt body and end plates, said body being positioned between said plates and having teeth formed on its peripheral surface, the teeth of said worm shaft being operatively engaged with the teeth of said worm wheel whereby to drive said second shaft, a drive wheel mounted on said second shaft, a third shaft which extends transversely through a bearing opening in said cover, said third shaft being turnable about its axis and being axially slidable, a turntable mounted upon said third shaft above said cover, and a disc mounted on said third shaft below said cover, the axes of said second and third shafts being in a common plane, said drive wheel having a rubber rim, the lower face of said disc being positioned above said rim and being maintained in frictional abutment therewith solely by the weight of said turntable, said third shaft, and said disc, and means for moving said drive wheel axially on said second shaft under said lower face of said disc whereby to vary the speed of turning of said third shaft.

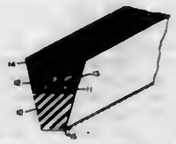
2,642,751

V BELT

Abraham Lincoln Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio

Application October 1, 1949, Serial No. 119,110
3 Claims. (Cl. 74—233)

1. A V-type raw-edged rubber belt having improved flexibility, stability, and crosswise rigidity in the base which comprises a tension section comprising a plurality of layers of rubberized bias fabric, an intermediate neutral axis section comprising parallel spaced longitudinally extending cords embedded in a rubber composition, a rubber compression section, and a protecting and stabilizing layer of spaced parallel rubberized cords



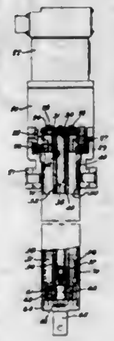
extending transversely to the longitudinal axis of the belt and adhered across the base of the compression section and forming the bottom surface of the belt.

2,642,752

ACTUATOR

Howard M. Geyer and Norman J. Bullock, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 29, 1951, Serial No. 258,956
4 Claims. (Cl. 74—424.8)



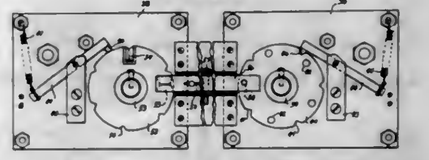
1. An actuator comprising in combination, a housing; a member rotatably supported by said housing; a reversible power device connected to said member for rotating it in either direction; a drive shaft secured at one end to said member so as to be rotated thereby; a tubular shaft around the drive shaft and keyed thereto to rotate with and move longitudinally relatively to said drive shaft; a tubular casing attached to the housing; a nut attached within the casing at its free end, said nut surrounding and being connected to the tubular shaft so that rotation of the tubular shaft causes said shaft to move axially relatively to the nut and longitudinally of the drive shaft as it rotates therewith; an end thrust bearing attached to the free end of the tubular shaft, said end thrust bearing supporting an attachment member engageable with the nut carrying casing when the actuator is fully retracted; and a tubular shell secured to the attachment member and surrounding the tubular casing, said shell providing a protective housing about the tubular shaft as it moves out of the nut during the extending cycle of the actuator.

2,642,753

MECHANICAL INTERLOCK

Malcolm H. Sheldon, deceased, late of Athens, Pa., by Mildred V. Sheldon, administratrix, Athens, Pa.

Original application October 26, 1945, Serial No. 624,621, now Patent No. 2,509,018, dated May 23, 1950. Divided and this application March 30, 1950, Serial No. 152,962
5 Claims. (Cl. 74—483)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A mechanical interlock comprising a frame member, a first disc mounted on said frame member for rotation through 360° of freedom, said disc having a V-shaped notch in a face thereof and a plurality of notches in the rim thereof, a second disc mounted on said frame member for rotation through 360° of freedom, said second disc having a plurality of dimples in a face thereof, said dimples being equiangularly spaced and equidistant radially from the center of said disc, and a plurality of notches in the rim thereof, a rockable member supported on said frame member in selective contacting relation with said faces of said discs, said rockable member carrying a spring urging said member towards engagement with said first disc and having conformable projections at its ends adapted respectively to engage said V-shaped notch and one of said dimples, and a pair of spring-tensioned ratchet arms mounted on said frame member, each of said arms having a rounded lip projection engageable by the rim notches of one of said discs.

2,642,754

ROTATABLE ANTENNA FOR TELEVISIONS

Maurice P. De Conti, New Britain, Conn.

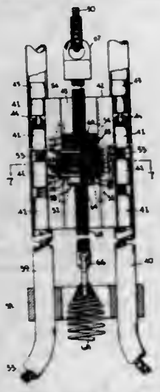
Application December 11, 1948, Serial No. 64,849
1 Claim. (Cl. 74—504)



In a rotatable antenna support, an elongated lightweight slender vertical shaft of flexible material adapted to extend through the roof of a building, a thrust bearing rotatably embracing

and supporting said shaft adjacent the lower end thereof, a plurality of bearings arranged at spaced intervals along the length of said shaft for preventing the bending or collapse of said shaft, means secured to said bearings for connection to roof of said building at spaced points around said shaft, an operating handle at the lower end of said shaft, and means located at an intermediate point on the length of said shaft to exert a uniform frictional restraint against accidental rotation thereof.

2,642,755
SAFETY DEVICE FOR PRESSES
Paul N. Shaw, Shaker Heights, Ohio
Application February 14, 1951, Serial No. 210,971
16 Claims. (Cl. 74—615)



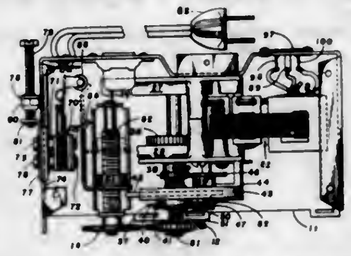
1. In combination with a press having a ram, means responsive to the operative stroke of the ram for pulling the press operator's hands away from the press, said means including a clip slidable relative to a fixed guide, flexible members secured to said clip, a cable operatively associated with said ram, and means associated with said clip and said cable for varying the distance between said cable and the ends of said flexible members and means for maintaining said cable under tension.

2,642,756
ROTATABLE CHANGE SPEED DEVICE
Clinton L. Cummings, Natick, Mass.
Application December 1, 1951, Serial No. 259,369
7 Claims. (Cl. 74—665)



1. A rotatable change speed device for use in connecting parallel drive and driven instrument shafts, said device comprising a gear casing, means connecting said casing to said drive shaft for rotation independently thereof and for axial movement relative thereto between inner and outer positions, a plurality of driven shafts carried by said casing with their axes so spaced from the casing axis that each may be positioned in axial alinement with said instrument driven shaft as said casing is turned on its axis, complemental connecting means carried respectively by said instrument driven shaft and said casing driven shafts engageable when said casing is in its inner position, and a gear train to rotate each of said shafts at different speeds relative to each other, and means operatively connecting said gear train to said drive shaft when said casing is in its inner position.

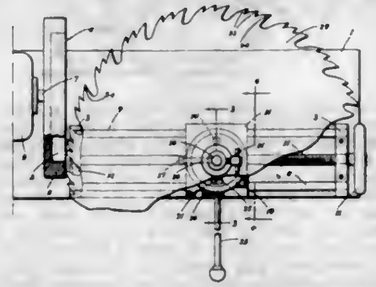
2,642,757
POWER DRIVE UNIT FOR REMOTELY CONTROLLED TELEVISION RECEIVERS
Leonard Sylvester Depweg, Hamilton, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application May 2, 1951, Serial No. 224,227
2 Claims. (Cl. 74—789)



1. In a mechanism for tuning a television receiver, a two-speed power transmission device, comprising: a drive shaft; a relatively small-diameter drive pinion fixedly mounted on said shaft; a driven element freely mounted on said shaft and formed with gear teeth constituting a relatively large diameter gear; a speed-reduction device comprising a support mounted concentrically with but freely rotatable with respect to said driven element, a friction brake for yieldably restraining said support against rotation, said friction brake comprising a leaf spring biased against the edge of the support to prevent rotation of the support counter to rotation of the drive pinion during low-speed operation, a second shaft laterally displaced from said drive shaft and projecting through said support, and a pair of speed-reduction gears mounted on said second shaft, the relatively large-diameter reduction gear meshing with said drive pinion and the relatively small-diameter reduction gear meshing with said driven element, said reduction device transmitting motion indirectly from said drive pinion to the driven element when the drive pinion and the driven element are not clutched to each other; and clutching means for coupling the drive pinion directly to the driven element comprising: a first projection on the drive pinion, a ring freely mounted on said drive shaft and having a second projection engageable with the first-mentioned projection, another ring freely mounted on said drive shaft and having a third projection engageable with the second but not with the first projection, and a fourth projection on said driven element engageable solely with the third projection; whereby when all of said projections are engaged to close the clutching means

the drive pinion is directly coupled through said projections to the driven element, the support then overcoming the bias of the friction brake and revolving said reduction gears without axial rotation until the drive pinion is reversed to open the clutching means.

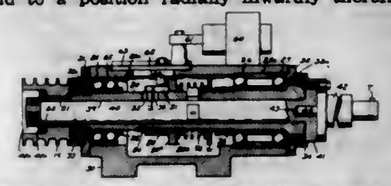
2,642,758
JOINTER FOR CIRCULAR SAWS
Oda C. Styles, Stockton, Calif.
Application January 2, 1951, Serial No. 203,885
2 Claims. (Cl. 76—42)



1. A jointer for a rotary saw blade comprising a base, a slide block mounted on the base for controlled movement of the center of said slide block in a straight line, a rotary driven grinding wheel mounted adjacent the base with its axis of rotation parallel to said line and having a working face disposed at substantially right angles to its axis of rotation and projecting radially inward from the rim of the wheel a predetermined relatively short distance, the wheel being recessed radially inward from the radially inner edge of said working face, a head on the block, an upstanding spindle on the head to pass through the central hole in a blade, means to adjustably clamp such blade on the head, a pivot mounting the head on the block eccentric to the spindle, hand means to rotate the head on its pivot, and adjustable stop means between the head and block limiting rotation of the head in a direction toward the wheel; a line through the axis of the head pivot and the axis of the spindle being substantially parallel to the working face of the wheel in one position of rotation of the head, the axis of said pivot lying in a plane between the axis of rotation of the wheel and the path of movement of the axis of the spindle, and said path being disposed to intersect the wheel adjacent the radially inner edge of the working face thereof.

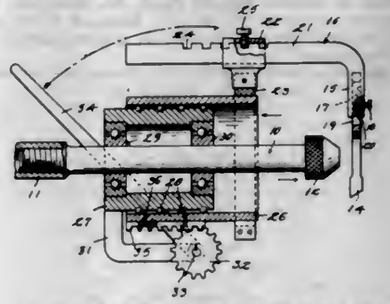
2,642,759
BORING MACHINE SPINDLE CONSTRUCTION
William Woerner, Greenbrook, N. J., assignor to Massari Bros. Machine Company, a partnership trading under the firm name of Wadell Equipment Co., Garwood, N. J.
Application May 9, 1950, Serial No. 160,890
7 Claims. (Cl. 77—3)

1. A spindle assembly for a machine tool comprising a housing, a spindle sleeve member rotatably journaled in the housing, a spindle journaled in the sleeve for angular adjustment relative to the sleeve about an axis eccentric to the axis of rotation of the sleeve in the housing, spindle driving abutments carried in part by said sleeve and in part by the said spindle adapted when engaged to limit the extent of angular adjustment of the spindle relative to the sleeve and to transmit drive power from the sleeve to the spindle, means for mounting a tool to said spindle including tool centering means constructed and arranged eccentric to the axis of the spindle so that the tool is caused to extend radially outwardly to its normal cutting position when the said driving abutments are in driving relation and to a position radially inwardly therefrom



when said abutments are disengaged, means independent of said driving abutments for adjusting said spindle angularly relative to said sleeve selectively to a position wherein said abutments are engaged and said tool is extended and to a position whereat said driving abutments are disengaged and said tool is withdrawn radially inwardly to a normally ineffective position, and means to revolve said sleeve.

2,642,760
DRILL PRESS ATTACHMENT
David N. Goldberg, Wheeling, W. Va.
Application December 29, 1950, Serial No. 203,504
2 Claims. (Cl. 77—7)

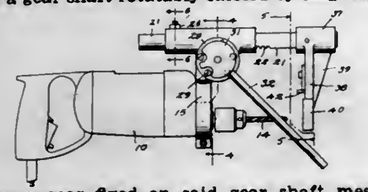


1. A drill attachment for detachably mounting on the threaded spindle of an electrically operated hand drill comprising a cylindrical housing, a spindle rotatably disposed through and supporting said housing, a threaded socket at one end of said second-named spindle for mounting on said first-named spindle, a chuck at the other end of said second-named spindle, a sleeve rotatably disposed about said housing, a work rest carried by said sleeve disposed in forwardly spaced relation with respect to said sleeve and said chuck, and correlated means carried partly by said sleeve and partly by said housing whereby said sleeve and housing may be moved endwise one relative to the other.

2,642,761
DRILL PRESS ATTACHMENT
David N. Goldberg, Wheeling, W. Va.
Application July 9, 1951, Serial No. 235,730
2 Claims. (Cl. 77—7)

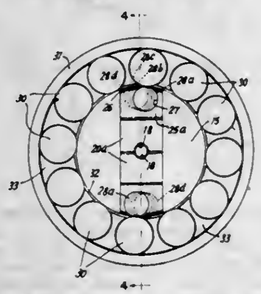
1. A drill press attachment for an electric hand drill comprising a supporting bracket arm, clamping means carried by said arm engageable

with the drill to dispose said arm at right angles relative to said drill, a guide sleeve carried by the outer end of said arm and disposed parallel with the longitudinal axis of said drill, a shaft slidable in said sleeve, a longitudinal groove in said shaft, a screw threaded stud carried by said sleeve engageable in said groove, gear teeth carried by said shaft, a feeding device comprising a gear shaft rotatably carried by said bracket



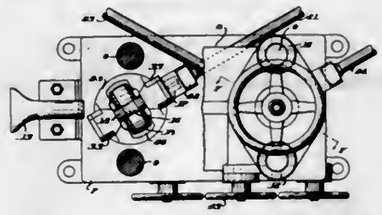
arm, a gear fixed on said gear shaft meshing with said gear teeth, an operator fixed to said gear shaft, a work support including a sleeve surrounding and fixed to said shaft parallel with said arm, a work rest including a boss having a longitudinal slot therein, and a right angularly disposed work supporting flange, and a stud extending through said slot and threadably engaging in said work support permitting longitudinal adjustment of said work rest relative to said support.

2,642,762
ROTARY SWAGER WITH AXIALLY PROGRESSIVE DIE ACTION
Sidley O. Evans, Beaver Falls, Pa., assignor, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey
Application November 22, 1950, Serial No. 197,083
11 Claims. (Cl. 78—21)



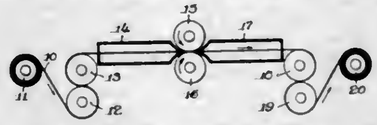
1. In a swaging machine, a rotary spindle having an axially elongated diametrically extending slot therein. die block means mounted in said slot for movement radially of said spindle; an annular series of striker rolls embracing said spindle, each striker roll extending parallel to the spindle axis and axially beyond each end of the slot; and hammer block means mounted in said slot and each associated with a die block means, the hammer block means having striker means projecting radially beyond said spindle for recurrent engagement by successive striker rolls; the striker means of each hammer block means being progressively offset circumferentially of the spindle from one end of the hammer block means to the other end thereof; whereby each striker means is progressively engaged by each striker roll so that force is progressively applied longitudinally of each die block means.

2,642,763
CROSS ROLLING MILL
Finn B. Abramsen, Baldwin Township, Allegheny County, Pa.
Application March 26, 1947, Serial No. 737,210
2 Claims. (Cl. 80—22)



1. A cross-rolling mill comprising a pair of crossed work rolls having their axes of rotation at an angle to the axis of the workpiece, a backing roll for each work roll, means for rotatably supporting each work roll and its supporting backing roll as a unit whereby said rolls are at all times in correct alignment with each other, means for moving the work rolls towards and away from each other to exert a rolling force on the workpiece, and means for turning said roll supporting means about an axis passing through the workpiece and at right angles thereto thereby varying the angle which the work rolls make with the workpiece and maintaining the backing rolls in alignment with the work rolls.

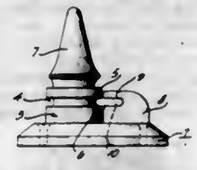
2,642,764
METHOD OF ROLLING THIN SHEET METAL
Henry W. Porth, Freeport, Ill., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application March 15, 1946, Serial No. 654,723
5 Claims. (Cl. 80—60)



1. In reducing the thickness of sheet material from the group consisting of magnesium and magnesium-base alloys having a thickness of not more than approximately .01 inch by passing said material between reducing rolls, the method which comprises heating said sheet material at a temperature of from approximately 435° F. to approximately 600° F. and maintaining said sheet material at said temperature for a period of time not exceeding approximately 5 seconds during which time said passage between said reducing rolls occurs.

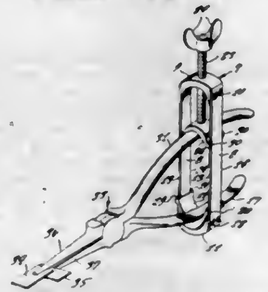
2,642,765
TEMPLET BENDING JIG
Roy A. Mears and Leo R. McCreary, Long Beach, Calif.
Application January 15, 1951, Serial No. 206,074
2 Claims. (Cl. 81—3.5)

1. A templet bending jig comprising a base, a spool rising vertically from said base and fixedly mounted thereon, said spool having an annular horizontal groove therein, a block fixedly mounted on the base adjacent said spool, said block having a horizontal groove therein in the side adjacent said spool and in alignment with the groove in the spool, the edge of said block adjacent the spool being substantially tangent to



the periphery of the spool and said block being eccentrically positioned relative to the vertical center line of said spool.

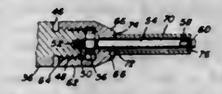
2,642,766
PLIER VISE
John Eisberg, New York, N. Y.
Application February 16, 1952, Serial No. 271,880
5 Claims. (Cl. 81—18)



1. A plier vise including an elongated closed frame having substantially parallel side members of uniform width, a yoke secured to the upper ends of the side members, an adjustable clamping screw extending through the yoke and between said side members, manual means upon the screw for manipulating it at will, a second yoke secured to the lower ends of the side members, a lower jaw mounted within the frame and between the side members and connected to the second yoke, an upper jaw slidably mounted between said side members and connected to the lower end of said clamping screw, the upper and lower jaws being transversely and laterally concave upon their inner mutually facing surfaces in order to conform to the externally convex shape of plier and pincher handles, and two spaced apart guide lugs upon each end of the upper and lower jaws straddling the side members of the frame and fitting the same with sufficient play to allow free adjustment of the jaws upon the plier handles.

2,642,767
ADJUSTABLE HOLDING DEVICE FOR FISHHOOKS, ETC.
Clair E. Kester, Clearfield, Pa., assignor of fifty per cent to Harold Oakley Woolley, Jr., Harrisburg, Pa.
Application January 9, 1951, Serial No. 205,056
1 Claim. (Cl. 81—32)

A holder of the character described comprising a rod including a threaded end portion having a longitudinal socket therein, a shank threadedly mounted in the socket and having a work receiving slot therein, a tubular jaw slidable on the shank for clamping the work in one end portion of the slot, and a cap nut threadedly mounted for adjustment on the



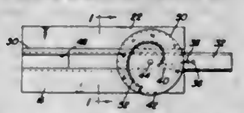
threaded end portion of the rod and engaged with the tubular jaw for engaging said jaw with the work.

2,642,768
ROCK ANCHOR
Harley R. Ogburn, Henderson, Tex.
Application June 17, 1949, Serial No. 99,693
1 Claim. (Cl. 85—2.4)



A rock anchor including, a transverse hanger having a bolt hole at its central portion and transverse sockets at each end opening outwardly and a depending lip overhanging each socket, the hanger having slots in the bottoms of the sockets, jaws having shanks at their upper ends carrying transverse rockers and being free of openings, the rockers engaging in the sockets and the shanks swinging through the slots, each rocker having a flat portion and a rounded portion so that the rockers may be inserted in its socket when the shank extends generally in a horizontal position and is retained in its socket by said depending lip when the shank is generally in a vertical position, the lower ends of the jaws having transversely curved inner sides, an eye-bolt passing loosely through the hanger, a nut screw-threaded on the bolt and engaging on top of the hanger, a conoidal nut threaded on the bolt between the jaws engaged on opposite sides by the curved inner sides of the jaws, said conoidal nut having a greater transverse dimension between said jaws and being held against rotation when the bolt is turned, and vertical wings protecting from the conoidal nut between the sides of opposite jaws.

2,642,769
ERYTHROCYTOMETER
Robert P. Moore, Hampden-Sydney, Va.
Application June 7, 1950, Serial No. 166,667
5 Claims. (Cl. 88—14)



1. An erythrocytometer comprising an elongated light-tight box having a removable lid, one

end of said box having a viewing aperture and the other end having a stationary light-receiving aperture, means for retaining a blood-smeared slide in said box at a constant position between said apertures, a linear slot in said other end terminating adjacent said stationary aperture, an index on said other end proximate said stationary aperture, and a disk having a graduated scale thereon rotatably mounted on said other end and including a plurality of apertures arranged in an Archimedean spiral, said disk apertures being selectively positionable in front of said linear slot.

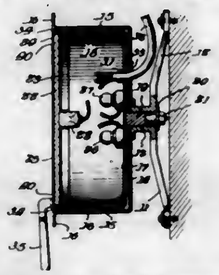
2,642,770
SCHLIEREN APPARATUS OF IMPROVED OPTICAL QUALITY
Theodor W. Zobel, Braunschweig, Germany, assignor to the United States of America as represented by the Secretary of the United States Air Force
Application July 25, 1950, Serial No. 175,843
5 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



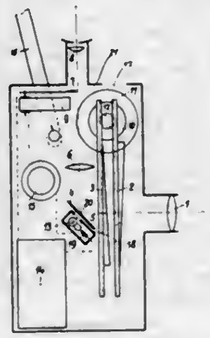
2. In a Schlieren apparatus, a pair of parabolic reflectors facing each other with their optical axes in alignment, and their focal points on said axes in axially spaced relation to each other to provide a Schlieren test medium receiving space between said focal points; a light source; means for projecting a beam of light from the light source through the focal point of a first one of the reflectors to illuminate the same to produce a reflected collimated light beam from said first reflector through the Schlieren test medium receiving space to the second reflector; a mirror inclined across the axis of the collimated light beam through the focal point of the second reflector, having a small plane reflecting surface sufficient to enclose the reflected beam from the second reflector at its focal point, said mirror reflecting surface having one edge thereof touching the last mentioned reflected beam at said last focal point to produce a darkened light field in the reflected beam from the second reflector beyond the focal point of said second reflector; and a Schlieren image receiving screen positioned across said last mentioned reflected beam for receiving said Schlieren image.

2,642,771
DEVICE FOR DETECTING AND DETERMINING REFRACTION ANOMALIES OF THE HUMAN EYES
Gustav Guist, Vienna, Austria
Application June 13, 1949, Serial No. 98,726
2 Claims. (Cl. 88—20)

1. As an aid in the subjective examination of the human eyes, a device comprising a closed circular housing having axially spaced front and rear walls and an annular side wall connecting such front and rear walls, means in said front wall forming a single substantially perfectly circular circularly continuous slot constituting a test line of predetermined width and diameter, an outer potlike casing having a bottom wall and an axially extending annular side wall, means for fixedly mounting said outer casing, means for rotatably mounting said closed circular housing within said outer potlike casing with the free outer end of the axially extending side wall of said potlike casing disposed in the plane of the front wall of said closed circular housing, a scale disposed on the free outer end of the side wall of said potlike casing, said scale being radially outwardly spaced from said test line, means for illuminating the interior of said housing to illuminate said test line, individual illuminating means for predetermined indicia marks on said scale, means for rotating said circular housing within said outer casing to displace said illuminated test line angularly relative to said scale, and a separate switching device for selectively illuminating said individual illuminating means to illuminate the indicia marks associated therewith for the purpose of selectively indicating the degree of angular displacement of said test line relative to said scale.

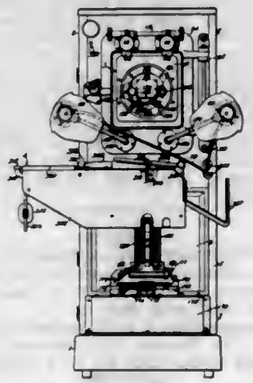


2,642,772
OPTICAL PYROMETER
Rudolf Hase, Gehrden, near Hannover, Germany
Application April 3, 1950, Serial No. 153,605
In Germany December 14, 1949
1 Claim. (Cl. 88—22.5)



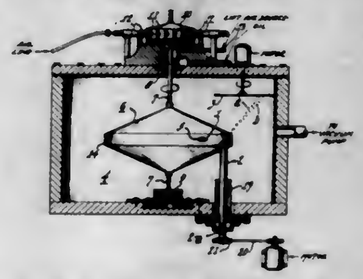
An optical pyrometer of the kind adapted to be held by the person carrying out a measurement comprising the combination of a casing having an eyepiece and an objective arranged at right angles to one another, means in said casing for deflecting light from the object to be measured incident on said objective into the line of sight from said eyepiece, a comparison light source comprising an electric lamp arranged behind said light deflecting means, and a needle galvanometer for indicating the strength of electric current passing through the lamp, the electric lamp galvanometer needle and object to be measured all being visible along the line of sight through the eyepiece, optical wedges disposed in the path of light passing through the objective, and slidable relatively to one another in parallel planes and means for slidably adjusting said optical wedges relatively to one another to vary the colour and brilliance of said light, scales and scale carrying means operatively associated with said optical wedges said scales being visible through an aperture provided in the casing at a point adjacent the eyepiece.

2,642,773
DOCUMENT PHOTOGRAPHING MACHINE
Ambrosius Briechle, Brooklyn, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application March 27, 1944, Serial No. 528,221
34 Claims. (Cl. 88—24)



1. A document photographing machine comprising means having a focal plane and formed for holding and guiding a sensitized strip in centered relation in said focal plane, an optical system for producing a positive reading, image on said strip in said focal plane having a lens unit mounted for movement toward and from said focal plane operable to photograph documents of varying size on said sensitized strip to produce images varying in size according to said documents, copy holding and feeding means mounted for adjustment toward and from said lens unit for supporting documents in a photographing plane normal to said optical system, said copy holding and feeding means having parts operable to engage and move documents in one direction thereon through said photographing plane, said copy holding and feeding means being movable into either of two angular positions for operation of said parts in one position to feed documents in said photographing plane to produce successive images arranged in longitudinal relation on said strip and in the other position to produce duplicate images arranged in successive relation transversely of said strip utilizing substantially the entire width of said sensitized strip, a single drive means for operating said parts and feeding both the documents and sensitized strip in one direction in timed proportionate relation through said planes, and manually operable control means for obtaining a cycle of operation of said machine in each operation thereof, to feed and photograph a document.

2,642,774
HIGH-SPEED MICROTOME
Robert G. Picard and John H. Reisner, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application October 29, 1947, Serial No. 782,886
1 Claim. (Cl. 88—40)

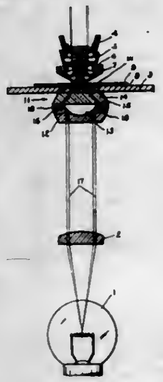


In a high speed microtome, means for simultaneously subjecting a specimen to a cutting force of sufficient intensity to sever discrete sections from said specimen and to a projecting force sufficient to project said severed sections into space along separate paths determined by the mass of said sections; said means including a rotatable member, a severing blade secured to the periphery of said rotatable member, and means for driving said blade at a linear velocity of at least 1000 inches per second; a collecting surface for collecting said severed and projected sections, said collecting surface being rotatably mounted in a position to intercept the separate paths of projection of said sections, means for rotating said collecting surface in a direction constituting substantially a continuation of the projection path of said sections and at a velocity determined by the velocity of said rotatable member whereby said specimens will be separately collected on said collecting surface; a vacuum tight chamber, said specimen, said blade, and said collecting surface being mounted within said chamber; and means for evacuating said chamber.

2,642,775
VERTICAL ILLUMINATOR
John T. Rooney, West Palm Beach, Fla.
Application December 21, 1949, Serial No. 134,200
3 Claims. (Cl. 88—40)

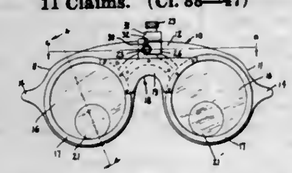
1. In a substage illuminator for microscopes having a lens system adapted to be positioned beneath the microscope stage to receive substantially parallel rays of light from a light source and bring such light rays to a focus at substantially the plane of an object on said stage, said lens system comprising a transparent body portion having substantially flat light entrance and exit face means respectively at its lower and upper portions, and having a curved reflective surface means at its peripheral outer surface to direct said light rays to a focus at substantially the plane of an object on said stage, said body being of molded transparent plastic lens medium of lower melting point than glass and having its optical surfaces formed directly by molding in a manner to eliminate the necessity of polishing, opaque means substantially centrally located on the surface of said body portion providing a dark background in alignment with said object to be illuminated on said microscope stage, and a transparent parallel plate cover member on the upper surface of said body portion, said cover

member having optical properties and overlying the entire upper surface of said body portion and secured to said upper surface, said cover member being made of glass and having a higher melting



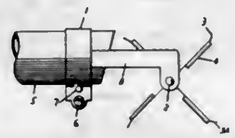
point and abrasion resistance than said body portion, whereby engagement of said cover and said microscope stage will not cause injury or damage to said lens system.

2,642,776
VARIABLE POWER BIFOCAL LENS
Paul A. K. Boeder, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 31, 1949, Serial No. 136,232
11 Claims. (Cl. 88—47)



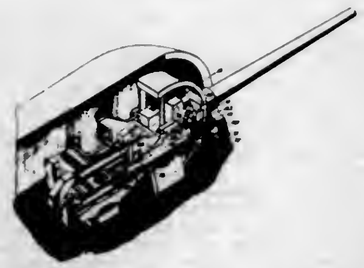
1. A vision corrective device comprising front and rear lens elements connected for adjustment toward and away from one another, said rear lens element having its surface curvatures controlled to introduce the power desired in the distance field of the device and having a near field area in the form of a countersink of controlled shape formed in the lower region of its front surface, and said front lens element being substantially concentric with said rear lens element and having the major portion of its rear surface of a curvature substantially contrageneric with the curvature of the front surface of the rear lens element, and its front surface substantially parallel with its rear surface and having a near field area in the form of opposed segments provided on each of the opposed front and rear surfaces thereof and substantially concentric with the countersunk portion in said rear lens element, the segment on the rear surface of said front lens element having a curvature substantially contrageneric with the curvature of said countersink, whereby the power of said near fields will vary in accordance with the extent of adjustment of the lens elements toward and away from one another while the power of the distance fields will remain substantially constant.

2,642,777
ROTO REFLECTOR
Stanley Bradler, Cleveland, Ohio
Application May 5, 1950, Serial No. 160,182
2 Claims. (Cl. 88—81)



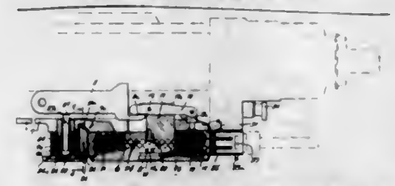
1. A device of the character described comprising a pair of parallel spaced arms, said arms having their inner ends secured to the outer end of the exhaust pipe of a motor vehicle, said arms extending outwardly from said exhaust pipe in a horizontal position and having a horizontal rod interconnecting same, a unit removaby mounted on said rod as an axis and rotatable in a vertical plane, said unit consisting of a plurality of equally spaced radial arms each having a mirror fixed thereon adjacent the outer end portion thereof, the extreme outer end portions of the said arms being bent slightly in a direction away from said mirrors, and said unit being adapted to rotate by means of the pressure exerted on each of said radial arms by the gases discharged from said exhaust pipe.

2,642,778
FUZE SETTING APPARATUS
Ernest F. Campbell, Springfield, Va., Gerald W. Kinzelman, Washington, D. C., and Arthur J. Stanton, Bethesda, Md.
Application May 9, 1945, Serial No. 592,808
12 Claims. (Cl. 89—6.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



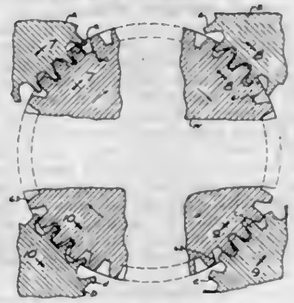
9. In a gun assembly wherein a tray is mounted adjacent the gun breech for receiving a round of ammunition having a nose fuze adapted to be set by rotation of the nose with respect to the fuze ring the combination of; a support, a fuze setting mechanism mounted on said support and engageable with the nose of the ammunition and movable following the reception of the round of ammunition to shift the ammunition on said tray, said fuze setting mechanism comprising relatively rotatable nose engaging elements adapted to engage slots in the nose and the fuze ring during said shifting movement, and means linking the fuze setting mechanism to the support whereby the fuze setting operation occurs simultaneously with the movement of the ammunition into its shifted position.

2,642,779
FIRING MECHANISM FOR AUTOMATIC GUNS
Henry Trevaskis, Solihull, Birmingham, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company
Application October 4, 1945, Serial No. 620,200
In Great Britain October 14, 1944
5 Claims. (Cl. 89—135)



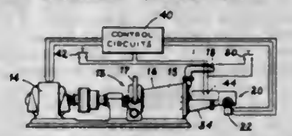
1. A firing mechanism for automatic guns which comprises a mounting plate to be secured to a fixed part of a gun adjacent to the sear thereof, a firing asembly comprising an upper and lower plate and a shell between said plates to form a solenoid casing, a solenoid winding within said casing, a movable core extending from above said mounting plate through said upper casing plate and axially within said winding, a trigger member disposed perpendicularly to the axis of said core and pivoted at one end to said upper plate and extending to engage a sear at its other end and secured to said core intermediate said ends, said mounting plate and upper plate having complementary undercut surfaces to hold them into engagement, said mounting plate having a second surface inclined from the vertical in a direction opposite to the incline of said undercut surface, a movable wedging member having a surface complementary to said second inclined surface and a spring pressing said wedge shaped member into engagement with said inclined surface.

2,642,780
APPARATUS FOR CUTTING GEARS AND THE LIKE
Waldemar E. Pace, Detroit, Mich.
Application July 24, 1947, Serial No. 763,379
3 Claims. (Cl. 90—3)



1. Rotary gear cutting means for cutting teeth on a rotating blank and adapted to cut the teeth on the blank as the blank and the cutting means are rotated synchronously in opposite directions and moved relative to each other axially, comprising, a plurality of rotary cutting elements each having cutter teeth and each of gear like form, said cutter teeth adapted to engage a radial face of the blank and to cut into the blank during continued relative rotation and relative axial movement, some of the cutter teeth of the cutting elements having an outermost edge which constitutes a cutting edge for cutting the trailing dedendum of a tooth on the blank as said cutting edge moves out of engagement with the blank, some of the cutter teeth of the cutting elements having a radially outwardly facing cutting edge for cutting the leading dedendum of a tooth of the blank as said last named cutting edge is moving into engagement with the blank, some of the cutter teeth of the cutting elements having a radially outwardly facing cutting edge for cutting the trailing addendum of a tooth on the blank as the last named cutting edge is moving into engagement with the blank, and some of the cutter teeth of the cutting elements having a hook shaped radially inwardly facing cutting edge for cutting the leading addendum of a tooth on the blank as said hook-shaped cutting edge is moving out of engagement with the blank.

2,642,781
PAPER MACHINERY
William D. Croake, Middletown, and Billie D. Ellis, Franklin, Ohio, assignors to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application June 12, 1951, Serial No. 231,172
8 Claims. (Cl. 92—27)



1. Control apparatus for a refiner of the character described having relatively rotating refining elements and a drive for advancing and retracting one of said elements with respect to the other axially while said refiner is in operation, comprising a switch for actuating said drive to retract said one element with respect to the other, means mounting said switch in stationary relation with said other element, a member for operating said switch to stop said drive, a support for said operating member carried by said one element for advancing and retracting axial movement therewith, a stop spaced forwardly of said switch for limiting the maximum forward travel of said operating member with said support to a predetermined limited distance, and means forming a one-way clutch connection between said operating member and said support providing for continued forward movement of said support with said one element following contact of said operating member with said stop to cause said operating member to travel rearwardly with said support upon retraction of said element and to operate said switch following retraction of said element through said limited distance.

2,642,782
FIBERBOARD FORMING PRESS WITH LOADER AND UNLOADER
Ralph Chapman, Corvallis, Oreg., assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg., a corporation of Oregon
Application April 10, 1948, Serial No. 20,336
2 Claims. (Cl. 92—61)

1. A multiple unit hot press for forming artificial boards from mats of fibers, each unit thereof comprising a rectangular press platen adapted to be heated by an internally circulating heating medium, a first roll mounted on and extending

parallel to one end of said press platen and a second roll mounted on and extending parallel to the opposite end of the press platen, a sprocket at each end of each roll and located beyond the side walls of the press platen, said sprockets being coaxial with and drivingly connected to their respective rolls, a sprocket chain passing about the pair of said sprockets at each side of said platen, a pair of spaced crossbars extending between said sprocket chains, a single screen stretched between said crossbars, a relatively thin, heat-transmitting face plate suspended be-

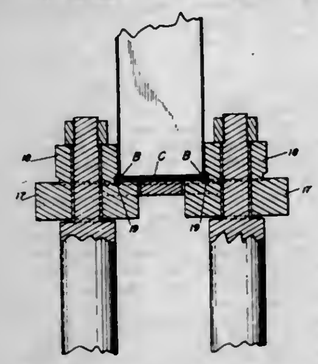


neath said platen, and suspension means for said face plate comprising brackets mounted upon the side walls of said platen and suspending members mounted in said brackets and movably supporting said face plate, said sprocket chains passing between the side walls of said platen and said suspending members, and the upper surface of said face plate having a plurality of closely spaced grooves therein providing small ridge areas in contact with the lower face of said press platen when the press is closed whereby to delay the transfer of heat to the upper surface of the mat during its formation into a board.

2,642,783

BEADING ROLLER FOR CARTONS

Theodore W. Goodrich, San Francisco, Calif.
Application December 6, 1951, Serial No. 260,181
2 Claims. (Cl. 93—36.5)

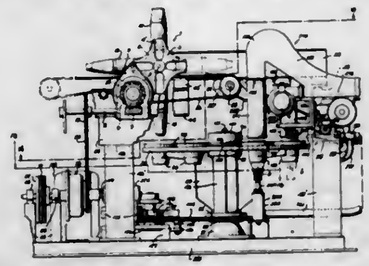


2. A carton beader comprising a carton support, a pair of spaced guides mounted on said support, a pair of beading rollers, each having a carton bottom-engaging portion mounted flush with said support, each of said rollers having a carton side-engaging portion spaced apart a distance slightly less than the distance of the spaced faces of said guides, each of said rollers having a recessed groove formed at the junction of said side and bottom engaging portions of said rollers and extending into the wall of the carton side-engaging portion, whereby when a carton is moved between said rollers, the side-engaging portion will indent the sides of the carton to form a bead between the sides and bottom of the carton.

2,642,784

MACHINE FOR MAKING PAPER CONTAINERS

Bruno A. Wittkuhns and H. George D. Nutting, Summit, and Gilbert F. Hill, Madison, N. J., assignors to National Paper Bottle Co. Inc., New York, N. Y., a corporation of New York
Application April 6, 1949, Serial No. 85,782
33 Claims. (Cl. 93—39.3)



24. A container forming machine including in combination, a rotatably mounted turret having a series of body supporting mandrels mounted in radial spaced relationship, a plurality of operating stations including a winding station, a pressing station, a mouth spinning station and a stripping station arranged in spaced relationship along the orbital path of travel of said mandrels as defined by the rotation of said turret, driving mechanism associated with said turret operative to effect stage-by-stage advance of the mandrels supported thereon from and to residence position at said successive stations, a rotatably mounted turntable having a series of axially extending container body receiving cells arranged in spaced relationship around the periphery of said turntable, a series of operating stations arranged in spaced relationship adjacent the periphery of said turntable including a loading station, driving mechanism for rotating said turntable operative to effect stage-by-stage advance of the body receiving cells associated therewith from and to residence position at its successive stations, said turret driving mechanism and said turntable driving mechanism operating in synchronism and having means associated therewith for retaining said mandrels and said cells in dwelling position for a predetermined dwelling interval at the successive stations associated with said turret and said turntable respectively, said turret and turntable being mounted for rotation in right angularly related planes, said stripping station associated with said turret being positioned adjacent the loading station associated with said turntable, and stripping means operative to remove successive container bodies from their supporting mandrels during residence at the stripping station and to project the container bodies into said cells as said cells successively advance to residence position at said loading station.

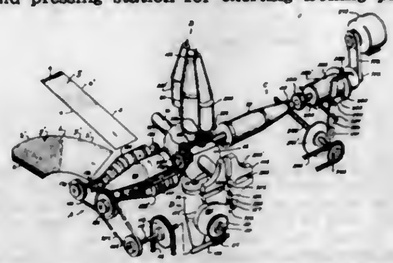
2,642,785

MACHINE FOR MAKING PAPER CONTAINERS

Bruno A. Wittkuhns and H. George D. Nutting, Summit, and Gilbert F. Hill, Madison, N. J., assignors to National Paper Bottle Co. Inc., New York, N. Y., a corporation of New York
Application April 6, 1949, Serial No. 85,781
32 Claims. (Cl. 93—36.5)

1. A container body forming machine including in combination, a mandrel supporting conveyor, a series of forming mandrels mounted in

spaced relationship on said conveyor, a plurality of operating stations arranged along the path of travel of said mandrel supporting conveyor, said operating stations being spaced in accordance with the spacing of said mandrels on said conveyor and including successively arranged winding, pressing, spinning and stripping stations, mechanism at said winding station operative to guide and direct a pair of body forming blanks in winding position on the mandrel during its residence at said winding station, mechanism at said pressing station for exerting ironing pres-

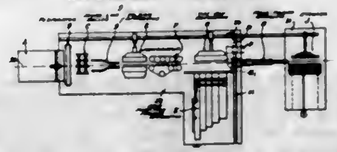


sure on the wound body supported by the mandrel during its residence at said pressing station, mechanism at said spinning station operative to form a rolled bead in the end of the wound body as supported by a mandrel during its residence at said spinning station, mechanism at said stripping station for stripping the wound body from a mandrel during its residence at said stripping station, and conveyor driving mechanism operative to move said mandrels in stage-by-stage advance from and to residence position at said successive operating stations.

2,642,786

APPARATUS FOR FORMING AND ASSEMBLING EGG CARTONS

John Gilchrist, London, Ontario, Canada, assignor, by mesne assignments, to Robert Gair Company, Inc., New York, N. Y., a company of Delaware
Application November 26, 1949, Serial No. 129,611
In Canada December 7, 1948
24 Claims. (Cl. 93—37)

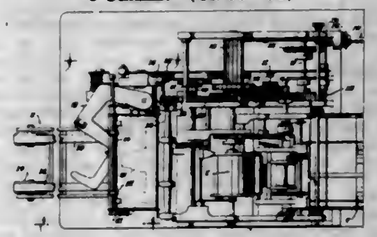


16. In apparatus for forming and assembling egg cartons wherein the latter are of the class formed from a medially folded carton blank having slots adapted to receive a plurality of cross partitions, and the upstanding walls of the medially folded blank are folded to overlie the cross partitions arranged in nested relation within the slots thereof, the combination comprising; means for supporting a slotted carton blank in medially folded position, a cross partition feeding mechanism for feeding cross partitions to the slots of a carton blank in said supporting means, and including means for conveying cross partitions continuously toward a slotted blank resting in said supporting means, means for positively urging cross partitions into the slots of the slotted blanks, actuating means for said positively urging means having an engaging member engageable by said conveying means when said positively urging means are in a position disposing cross partitions in assembled relation in the slots of the carton blank, and spring means for returning said positively urging means and said engaging member to a position where the latter is engageable by said conveying means.

2,642,787

RECORD CARD COUNTING, STACKING, AND CONVEYING MECHANISM

Fred M. Carroll, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application May 12, 1949, Serial No. 92,822. Divided and this application February 16, 1951, Serial No. 211,416
3 Claims. (Cl. 93—93)
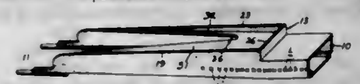


1. In a record card processing machine, a card processing station, a card receiving elevator located adjacent said station, means for delivering cards from said station to said elevator, a rotatable device for counting and registering cards delivered from said station, a card shutter, means for biasing said card shutter into a plane overlying said elevator to receive delivery of said cards from said processing station, means for latching said shutter against the influence of said biasing means, settable means carried by said card counter and register and rotatable therewith for effecting release of said shutter into card receiving position upon delivery to said elevator of a number of cards predetermined by the setting of said settable means, and means under control of said shutter releasing means thereafter effective to retract said elevator.

2,642,788

TUNNEL PORTAL CONSTRUCTION

William Earle Andrews, New York, N. Y.
Application April 21, 1948, Serial No. 22,417
2 Claims. (Cl. 94—1)



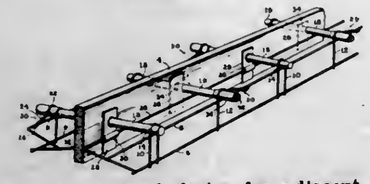
1. An entrance roadway leading to a tunnel portal comprising supports along said roadway leading to said portal, a canopy partially overlying said entrance roadway and tapering from the sides of said supports at a distance of approximately two hundred feet to a point over said roadway approximately forty feet from said portal, to form a V-shaped notch in said canopy exposed to daylight, to reduce natural illumination whereby in approaching and entering said portal at the rate of movement ranging approximately from fifteen to sixty six feet per second, over said distance hazards involved in lag in human eye accommodation are overcome.

2,642,789

TRANSLOAD DEVICE

Alan E. Brickman, Worcester, Mass., assignor to United States Steel Corporation, a corporation of New Jersey

Application November 24, 1948, Serial No. 61,876
4 Claims. (Cl. 94—8)



1. In a transload device for adjacent slabs having a filler therebetween, the combination including a pair of telescoping supporting units, one adapted to be positioned on each side of the filler, each unit comprising a pair of outboard longitudinal rods spaced apart one above the other, spaced apart rods extending between and welded to said longitudinal rods, said last named rods having a U-shaped upper portion extending above the upper longitudinal rod to form an opening, a dowel passing through each opening and welded to the walls thereof, a plate welded to each of said dowels and adapted to bear against one side of said filler, each of said plates being bent outwardly below said dowel to provide a longitudinally extending recess therein, an inboard rod welded to and extending longitudinally between the plates, said last named rod being positioned in said recesses above the bottom of said plates a substantial distance below the dowel, a clamping rod between adjacent pairs of said U-shaped rods extending between and welded to the bottom and top longitudinal rods, each of said clamping rods extending above the top longitudinal rod and having a loop receiving a dowel of the opposite unit, each of said clamping rods extending from said loop along said top longitudinal rod and having a hook portion at the free end which passes below and around the top longitudinal rod, and a connection between the ends of the inboard longitudinal rod and one of the outboard longitudinal rods.

2,642,790

FOCUSING APPARATUS FOR REFLEX PHOTOGRAPHIC CAMERAS

Friedrich-Wilhelm Scholkemeier, Braunschweig-Lehndorf, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany, a firm

Application November 6, 1950, Serial No. 194,200
In Germany October 29, 1949
2 Claims. (Cl. 95—44)

1. An attachment for use in focusing in a darkened room a camera of the twin lens reflex type having one lens for admitting light into an exposure chamber and a second lens for admitting light into a focusing chamber, a focusing screen forming one wall of said focusing chamber and lying substantially parallel to the optical axis of the second lens, a mirror within said focusing chamber intersecting the optical axis of the second lens to reflect light rays entering through said second lens so as to fall on said screen, a focusing hood surrounding said screen to shade the same from external light, a second mirror within said hood to reflect light rays from said screen to a wall of said hood, and a light transmitting aperture in a wall of said hood in position to pass light from said screen as reflected by said second mirror, said attachment comprising a lamp housing adapted for detachable mounting on said wall of said hood in a position operatively alined with said aperture, an incandescent filament lamp within said housing, and a lens within said housing for projecting an

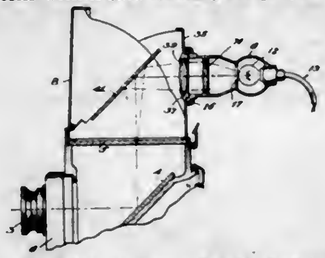


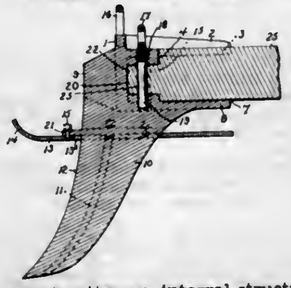
image of said filament through said aperture and onto said second mirror and thence onto said focusing screen, so that the image thereof on said screen may in turn be projected by the first mirror through said second lens onto the object to be photographed, to assist in focusing the camera on such object.

2,642,791

DETACHABLE ROOT CUTTER

George W. Peacock, Sr., Jacksonville, Fla., assignor of one-fourth to George W. Peacock, Jr., one-fourth to Thomas W. Peacock, and one-half to Franklin G. Russell, all of Jacksonville, Fla.

Application September 20, 1948, Serial No. 50,051
2 Claims. (Cl. 97—226.1)



1. In a root cutter, an integral structure comprising a socket member, a cutter blade depending from said member and a flange plate on the blade below the socket member, said socket member including a front vertical wall, vertical side walls, an upper horizontal wall and a lower horizontal wall, and a back wall, the side walls and the upper horizontal wall having cut-away portions, said socket member having a lug-receiving recess opening through said back wall, said socket member having coupling pin holes in vertical alignment with said recess opening.

2,642,792

ADJUSTABLE VENTILATOR GRILLE

Charles A. Reichelderfer, Columbus, Ohio, assignor to Norman Products Company, Columbus, Ohio, a corporation of Ohio

Application May 1, 1950, Serial No. 159,265
5 Claims. (Cl. 98—40)

5. A ventilator grille comprising an outer frame defining a fluid passage; a first set of relatively spaced parallel slat members forming louvers, pivotally connected at their respective ends with said frame for oscillating movement, each of said first set of louvers being formed with a plurality of spaced triangular recesses opening along one edge thereof; and a second set of spaced parallel slat members forming louvers, disposed in perpendicular relation to said first set of louvers



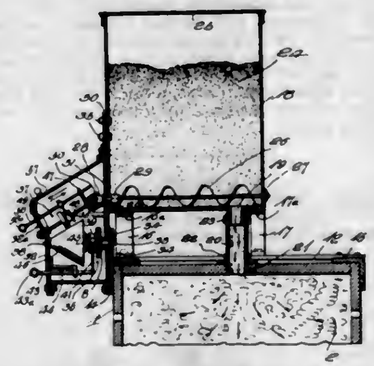
and pivotally connected at their respective ends with said frame, each of said second set of louvers being formed with a plurality of spaced triangular recesses opening along one edge thereof and receiving the triangular recesses of said first set of louvers, whereby the apices of each set of recesses act as pivots for the opposite set of slat members.

2,642,793

ATTACHMENT FOR HAY BALERS FOR DISTRIBUTING CHEMICALS THROUGH HAY DURING BALING

Ezra D. Heisey, Washington, Pa.

Application August 23, 1950, Serial No. 181,039
2 Claims. (Cl. 99—235)



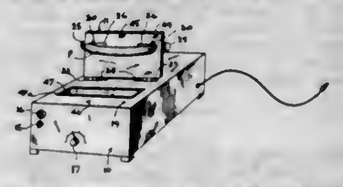
1. An apparatus for distributing chemical in material which is progressively moved to a baling position comprising in combination with a frame forming a passage for the material moving to a baling position, a supporting structure for said frame, a pair of horizontally extending spaced bars mounted at opposite ends on said supporting structure, a pair of spaced standards erected on said bars, a hopper for chemical material supported by said standards and spaced above said frame, a screw conveyor in said hopper, said hopper having a discharge connection leading to the passage for the conveyance of the material being baled, a plate member extending between one side of the supporting structure for said frame and one side of said hopper, means disposed in the path of movement of the material being baled for driving said conveyor, a housing carried by said plate member and means disposed within said housing and connected with said conveyor and driven by the aforesaid means comprising a horizontal shaft journalled in the lower portion of said housing below the plane of the bottom of said hopper and an angularly inclined shaft journalled in the upper portion of said housing, said horizontally disposed shaft having a frustroconical driven member associated therewith and said angularly inclined shaft having a friction roller adjustable in position thereon and contacting the surface of said frustroconical driven member and connection means between said angularly inclined shaft and the conveyor within the hopper for operating said conveyor and effecting movement of the chemical material through said discharge connection and into the material moving through the passage in said frame.

2,642,794

ELECTRIC FRANKFURTER COOKER

Irwin Spiess and Leonard B. Simon, New York, N. Y.

Application March 2, 1949, Serial No. 79,224
8 Claims. (Cl. 99—358)



5. A device for cooking a frankfurter or the like by passing an electric current therethrough, comprising a transformer which has a primary winding and a secondary winding, a control switch, a source of alternating current, said control switch and said primary winding being connected in series with said source of alternating current, a load resistance, means for connecting said frankfurter and said load resistance being in series with said secondary winding so as to cook said frankfurter by the heat generated therein by the passage of current therethrough, current rectifying means connected in parallel with said load resistance, relay means connected in circuit with the output of said current rectifying means, and switch-opening means actuatable by said relay means to open said control switch when said relay means is sufficiently energized as the result of the drop of resistance of said frankfurter by the passage of current therethrough.

2,642,795

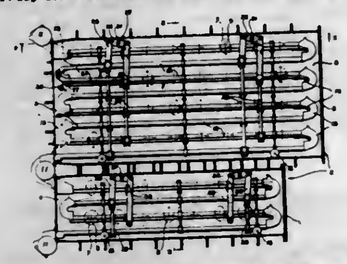
APPARATUS FOR HEATING AND/OR COOLING CANNED FOOD OR OTHER SUBSTANCES

David William Bingham, Brighton, Victoria, Australia

Application July 12, 1949, Serial No. 104,366
In Australia July 12, 1948
12 Claims. (Cl. 99—361)

2. Apparatus for treating canned food or other substances comprising a housing forming a treating chamber, a series of vertically spaced rows of can guideways within said housing, inlet apertures in said housing for feeding cans to one end of each series of said guideways, transfer means leading from the delivery end of each guideway to the next lower guideway, a conveyor element for moving the cans lengthwise of each guideway so as to cause the cans to travel lengthwise of said housing successively in forward and rearward directions before reaching discharge apertures in said housing at that end of the series of guideways remote from said inlet apertures, each guideway including a series of longitudinally

spaced can seats upon which the cans are permitted to remain for predetermined intervals in between their forward and rearward movements along said guideways, each can seat comprising a relatively flat central portion flanked on its opposite sides with upwardly inclined shoulders which extend in opposite directions lengthwise of the associated guideway, said conveyor means being capable of adjustment so that it may deposit each can either on the inclined shoulders or on the relatively flat central portions of the can seats.



2,642,796

HOLDER FOR ROASTING FRANKFURTERS, CORN ON COB, AND THE LIKE

Anthony C. La Bore, Bridgeport, Conn.

Application May 23, 1950, Serial No. 163,693
1 Claim. (Cl. 99—441)



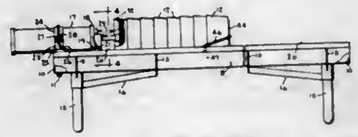
A cooking utensil comprising a pair of substantially parallel wires secured together forming an elongated shank, a hand grip at one end of the shank, the wires at the other end of the shank being bent laterally and outwardly in opposite directions forming aligned arms on opposite sides of the shank, said wires being then extended forwardly at the outer ends of the arms in the general direction of the shank and curved to form laterally spaced concave gripping members of a stationary jaw, said arms being offset outwardly of the shank to form pivot loops, a wire forming a movable jaw including laterally spaced connected side members curved to form concave gripping members opposed to the stationary jaw, said members of the movable jaw provided with eyes embracing said pivot loops to pivotally connect the movable jaw thereto, said members of the movable jaw also bent to form eyes outwardly of said pivotal connections, an operating rod extending along the shank provided with a finger grip adjacent the hand grip, and a forked link including spaced connected side members pivotally connected at an intermediate point to the other end of the rod and provided with eyes at their free ends extending through the latter eyes of the movable jaw to pivotally connect the link thereto for operating the movable jaw.

2,642,797

CHEESE PRESS

Norman J. Peters, Fond du Lac, Wis., assignor to Damrow Brothers Company, Fond du Lac, Wis., a corporation of Wisconsin

Application September 16, 1949, Serial No. 115,971
1 Claim. (Cl. 100—199)



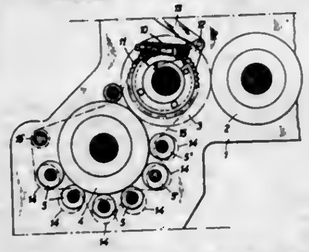
In a cheese press, the combination of a trough having a series of lengthwise spaced alined sets of openings in its top edges, a plain flat metal backing plate of uniform thickness resting at its lower edge portion on the top of said trough and depending below said lower edge portion into said trough, leg members formed of round metal rods secured to the front side of said plate above the trough and projecting downwardly and rearwardly therefrom and having forwardly angled feet engageable in a set of said alined openings to hold the plate in fixed relation to said trough, and a pressing cylinder secured to said trough and provided with a ram cooperating with said plate to press cheese hoops interposed between said ram and plate.

2,642,798

ROLLER TRIP FOR PRINTING MACHINES

Max Ras, Zurich, Switzerland

Application April 5, 1949, Serial No. 85,670
In Switzerland November 22, 1948
1 Claim. (Cl. 101—144)



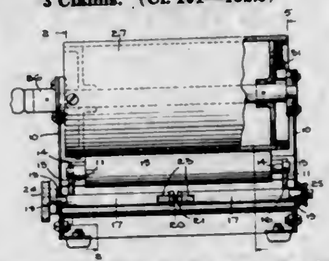
A cylinder adjusting mechanism for rotary printing machines comprising a printing cylinder, a form cylinder, a transfer cylinder between said printing and form cylinders, a rotatable eccentric bearing sleeve carrying one end of said transfer cylinder, a control member operatively connected to said bearing sleeve for rotation of the sleeve to move the transfer cylinder into and out of contact with said printing and form cylinders, a series of inking and damping rollers adapted to be applied against the form cylinder and removed therefrom, rotatable eccentric bearing sleeves carrying said inking and damping rollers, a chain wheel carried by the first mentioned bearing sleeve of the transfer cylinder, a chain wheel on the bearing sleeves of each of said inking and damping rollers, and a driving chain passing over all said chain wheels of the transfer cylinder and said rollers, whereby upon actuation of said control member to turn the eccentric sleeve of the transfer cylinder said chain wheel on the sleeve transmits the movement of rotation to said eccentric bearing sleeves of the inking and damping rollers to simultaneously move said transfer cylinder and said rollers into and out of contact with the cooperating cylinders.

2,642,799

MEANS FOR PRESSURE ROLLER SPINDLE SUPPORT AND ADJUSTING DUPLICATING MACHINES

Ronald Max Ford and George Thomas Butler, Sparkbrook, Birmingham, England; said Butler assignor to Frank R. Ford Limited, Sparkbrook, Birmingham, England, a British company

Application April 27, 1950, Serial No. 158,382
In Great Britain May 7, 1949
3 Claims. (Cl. 101—132.5)



1. In a duplicating machine of the kind in which a copy sheet and a master sheet bearing in reversed script the matter to be reproduced are passed in pressure contact between a cylinder which carries the master sheet and a pressure roller, the copy sheet being moistened before being brought into contact with the master sheet; means for supporting the spindle of the pressure roller in the frame of the machine comprising, a support member for each end of the pressure roller spindle, each support member being movably mounted in the machine frame for controlled movement towards and away from the master cylinder, a shaft supported in the frame with its axis parallel to the axis of the master cylinder, said shaft being formed in two parts connected together at their inner ends, a cam portion on each said part fixedly associated with the shaft part, means for rotatively adjusting said parts of the shaft, said support members being arranged to rest upon said cam portions, and means for turning said shaft as a whole whereby the two parts thereof are rotated simultaneously about the axis of the shaft.

2,642,800

PLATE HOLDING MECHANISM FOR STEREOTYPE PRINTING PLATES

John Oldfield Crabtree, London, England, assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application January 10, 1950, Serial No. 137,863
In Great Britain January 10, 1949
4 Claims. (Cl. 101—378)

1. In combination a printing cylinder, a curved stereotype printing plate having distributed over its concave surface a series of undercut projections, arranged in groups, a corresponding series of gripping devices arranged in corresponding groups, each gripping device comprising a first component constituting an abutment and a second component to clamp a projection between them, means to locate the first component of a gripping device of each group to be engaged by a



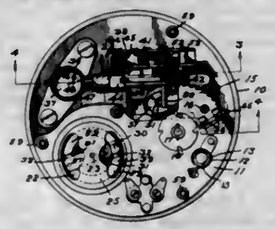
projection, and to allow limited free movement of the first component of each other device of the group, means to operate the second components of each group to move them relatively into and out of embracing engagement with their respective projections, the said operating means operating on the second component of each device through a resilient component.

2,642,801

ACCELERATION SWITCH DELAYED ARMING FUSE

Daniel H. Gleason, Mountain Lake, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application June 9, 1947, Serial No. 753,518
7 Claims. (Cl. 102—70.2)



1. In an arming device for fuzes, an interrupter having an unarmed position and an armed position, means tending to move the same to armed position, a governor operatively connected with the interrupter to control the time of movement from the first named position to the one second named, said connection between the governor and interrupter comprising a one-way clutch constructed to permit limited free movement of the governor on stoppage of the interrupter, means to hold the interrupter at said unarmed position responsive to inertia forces incident to acceleration of the fuze when propelled from a gun, and means to retard response of the means next last named to a time corresponding to the time of the fuze in the gun.

2,642,802

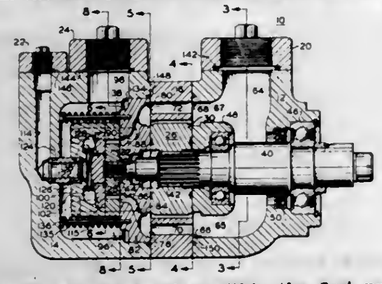
DUAL ROTARY PUMP FOR POWER TRANSMISSIONS

Duncan B. Gardiner, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

Application December 14, 1948, Serial No. 65,157
11 Claims. (Cl. 103—4)

1. A dual vane pump comprising a casing having an inlet section and an outlet section between which is a first pumping unit, means forming a first pressure chamber in the outlet section having an outlet passage connected thereto, a first pressure responsive cheek plate in the first

pressure chamber, one side of which is maintained in fluid sealing engagement against the first pumping unit, a second pumping unit on the opposite side of the first cheek plate, each pumping unit including means forming a pumping recess, a rotor in the recess, and a plurality of reciprocating vanes carried by the rotor, said vanes being held in bearing contact with the contour of the pumping recess to form suction and pressure working chambers, a common drive shaft for the rotors, a closure member mounted in the first pressure chamber and forming a



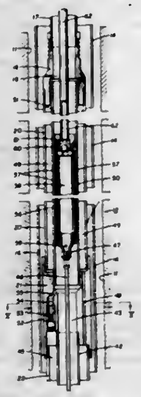
second pressure chamber within the first pressure chamber, a second cheek plate in the second pressure chamber and pressure loaded against the second pumping unit, means forming an inlet supply flow path connected to the suction working chambers of both pumping units, means separately, respectively, connecting the pressure working chambers of the first and second pumping units to the first and second pressure chambers, a second outlet passage in the outlet section, and means hydraulically connecting the second pressure chamber to the second outlet passage.

2,642,803

DUAL PRODUCTION ZONE PUMP

Charles A. Morris and John D. Exner, Wichita Falls, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application April 27, 1950, Serial No. 158,368
3 Claims. (Cl. 103—4)



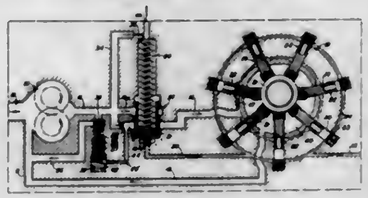
1. A dual zone pump assembly adapted to pump fluid simultaneously from lower and upper subsurface zones without intermixing the fluid from said zones comprising, in combination, a tubular head member, defining a central passage therethrough, adapted to be threadedly secured to the lower end of a stationary tubing string within a suitably perforated casing string in a borehole; a first tubular jacket threadedly secured dependently from said head member; a first coupling member defining a central longitudinal passage and at least one longitudinal by-pass passage therethrough, and also defining an upper zone entry port arranged to provide ingress of fluid from said upper zone into said central passage, said coupling member threadedly joining the upper end of a second tubular jacket collinearly to the lower end of said first jacket; a second coupling member, defining a central longitudinal passage therethrough, threadedly joining the upper end of a third tubular jacket collinearly to the lower end of said second jacket; means adjacent the lower end of said third jacket for admitting fluid from said lower zone into the interior of said third jacket; a releasable lock hold-down means, provided with a longitudinal fluid passage therethrough, positioned within said third jacket and above said fluid admitting means; a lower tubular plunger, provided with suitable circumferential packing rings in the outer walls thereof, secured to said hold-down means coaxially within, and spaced from, said third jacket; a lower pump barrel arranged for reciprocating movement concentrically over said lower plunger; standing valve means in said lower plunger and traveling valve means in said lower pump barrel constructed and arranged to cooperate and deliver fluid above said lower pump barrel upon downward movement of the latter; packer means secured circumferentially around said third jacket below the upper extremity thereof and adapted to seal off an annular space defined between said third jacket and said casing string; a tubular seal barrel, defining at least one fluid port through the wall and adjacent the lower end thereof, seated in the central passage of said second coupling member and threadedly secured in the central passage of said first coupling member whereby an annular passage is provided between said seal barrel and said second jacket; a blind plunger, provided with suitable circumferential packing means slidably engaging inner walls of said seal barrel, arranged for longitudinal reciprocating movement concentrically within said seal barrel; a first sucker rod string securing the lower extremity of said blind plunger to the upper extremity of said lower pump barrel; a stationary upper pump barrel, defining at least one fluid reentry port adjacent its upper extremity, threadedly secured at its lower end in the central passage of said first coupling member and seated at its upper end in the central passage of said head member whereby an annular passage is provided between said pump barrel and the first tubular jacket; a movable upper pump plunger, defining a central bore and having suitable circumferential packing means in the outer walls thereof slidably engaging inner walls of said upper pump barrel, arranged for reciprocating movement concentrically within said upper pump barrel; standing valve means in the upper zone entry port of said first coupling member and traveling valve means in said upper pump plunger constructed and arranged to cooperate and deliver fluid above said traveling valve upon downward movement of the upper pump plunger; a second sucker rod string securing the upper end of the blind plunger to the lower end of the upper pump plunger; and a movable tubing string adapted to reciprocate substantially concentrically within said stationary tubing string, threadedly secured to said upper pump plunger above the traveling valve means therein.

2,642,804

HYDRAULIC POWER UNIT

Eric H. Bowers, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England

Application March 27, 1951, Serial No. 217,692
In Great Britain March 31, 1950
8 Claims. (Cl. 103—5)



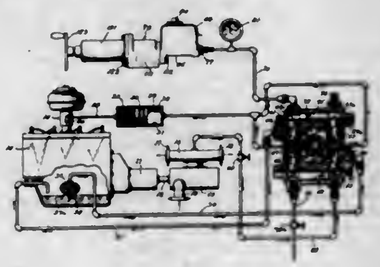
1. A hydraulic pump unit comprising a fixed-displacement first stage pump, a fixed-displacement second stage pump of lesser volumetric displacement than said first stage pump, driven in common with the latter, a by-pass passage and a relief valve therein interconnecting the outlet and the inlet of the first stage pump, an intermediate passage of a size to convey the entire intake capacity of the second stage pump, connecting the outlet of the first stage pump and the inlet of the second stage pump, a shut-off valve interposed in said intermediate passage and biased towards open position, pressure-responsive means operatively connected to the shut-off valve to close the same, a high pressure passage leading to said pressure-responsive means from the outlet of the second stage pump for actuation of the pressure-responsive means, and consequent closure of the shut-off valve, upon attainment of a predetermined maximum pressure in such outlet, such as corresponds to continued operation of the pumps under substantially no-load conditions, and a flow-restricting passage connecting different parts of the length of said intermediate passage and by-passing said shut-off valve to provide a continuous flow of liquid to the second stage pump, less than its full intake capacity, notwithstanding closure of said shut-off valve.

2,642,805

FIRE ENGINE PUMP GOVERNOR

Richard Curt Nepper, Cincinnati, Ohio, assignor, by mesne assignments, to Ahrens-Fox, Inc., Cincinnati, Ohio, a corporation of Ohio

Application September 22, 1949, Serial No. 117,253
9 Claims. (Cl. 103—17)



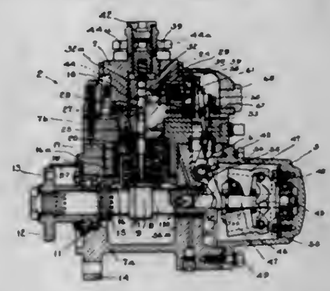
1. In a governor for a fire pump having a main driving engine, a carburetor for controlling the operation of said engine, a water pump driven from said engine, and an oil pump for and driven by said engine, a fluid pressure actuator connected to regulate said carburetor, a control valve mechanism connected in series between said actuator and said oil pump, means for actuating said valve mechanism solely from the output pressure of said water pump to regulate fluid pressure flow from said oil pump to said fluid pressure actuator, and further manually controlled means connected to actuate said valve mechanism in opposition to the actuation of the valve mechanism by the output pressure of the water pump so as to regulate said fluid pressure actuator for said carburetor to maintain a predetermined output pressure for said water pump.

2,642,806

FUEL SUPPLY APPARATUS FOR INTERNAL-COMBUSTION ENGINES

Martin J. Berlyn, Enfield, Conn., and John J. Broderick, Springfield, Mass., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York

Original application April 5, 1946, Serial No. 659,708. Divided and this application February 28, 1949, Serial No. 78,806. In Great Britain May 4, 1946
3 Claims. (Cl. 103—40)



1. In a fuel injection pump, a pump housing having a pumping bore, said housing having a supply chamber for supplying fuel to said bore, a fuel inlet passage between said bore and said supply chamber, a throttle member for controlling the passage of fuel through said passage from said chamber to said bore, said throttle member having a needle portion extending into said fuel passage and adjustable therein for controlling the quantity of fuel passing through said passage, a flexible diaphragm, said diaphragm being connected to said throttle member and to the wall of said chamber in sealed relation and means for adjustably positioning said needle portion of said throttle member in said fuel passage.

2,642,807

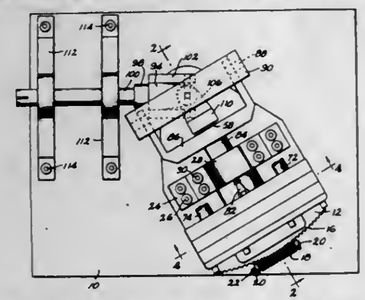
FLUID APPARATUS

Garrett B. Linderman, Washington, D. C.

Application September 28, 1950, Serial No. 187,187
6 Claims. (Cl. 103—120)

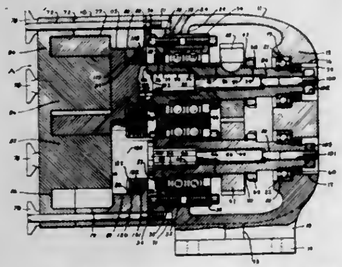
1. Fluid apparatus comprising a housing having fluid inlet and outlet ports, a plurality of pistons received in said housing, a plurality of shafts having a common axis secured to said pistons respectively, a Cardan joint connected to each of said shafts, a common shaft connected to said joints, a pivot for said housing having an axis

intersecting the axes of said shafts at a point, and means for adjusting the angular relationship



of said housing and said common axis with respect to said common shaft.

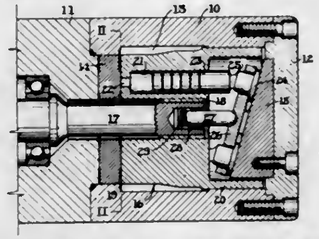
2,642,808
SANITARY PUMP
David F. Thomas, Minneapolis, Minn., assignor to Waterous Company, St. Paul, Minn., a corporation of Minnesota
Application May 17, 1948, Serial No. 27,521
9 Claims. (Cl. 103—126)



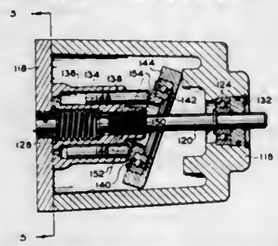
8. A pump construction including a gear casing, a pair of parallel hollow shafts mounted on said gear casing, means connecting said shafts for causing rotation thereof in unison, a pair of impeller units removably secured to said shafts, said impeller units including elongated shanks designed to extend through said hollow shafts, and impellers supported upon one end of each of said shanks and designed to travel in intersecting paths, impeller hubs on said shanks designed to extend in abutting relation with an end of the corresponding hollow shaft, a notch in the end of each of said hollow shafts, and a projection on each of said impeller hubs engageable into the notch when said impeller shanks are supported within said hollow shafts, said notches and projections holding the impeller in proper angular relation.

2,642,809
HYDRAULIC APPARATUS
Ellis H. Born, Columbus, and Leroy E. Bonnette, Delaware, Ohio, assignors to The Denison Engineering Company, Columbus, Ohio
Application February 15, 1946, Serial No. 647,872
11 Claims. (Cl. 103—162)

1. An axial piston type fluid pressure energy translating device comprising a cylinder barrel having a plurality of cylinders; a port plate having spaced inlet and outlet ports, said port plate being disposed in relatively rotatable sliding engagement with said cylinder barrel; piston means in the cylinder barrel; cam plate means imparting reciprocatory movement to said piston means, said cam and port plates being so related that the pistons move into the cylinders prior to registration thereof with said outlet port a distance sufficient to raise the fluid pressure in the cylinders above that in the outlet port; an auxiliary port in said port plate in the space between said inlet and outlet ports, said cylinders registering with said port prior to their registration with said outlet port; passage means connecting said auxiliary port and said outlet port; and a check valve in said passage to prevent fluid flow from said outlet port to said auxiliary port.



2,642,810
POWER TRANSMISSION
James Robinson, Huntington Woods, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application May 10, 1947, Serial No. 747,215
4 Claims. (Cl. 103—162)



1. A fluid pressure energy translating device comprising in combination a drive shaft, a housing journalling the drive shaft and having a stationary flat valve plate provided with inlet and outlet ports, a rotatable cylinder barrel in abutment with the valve plate and in driving relation to the drive shaft and having a plurality of axial cylinder bores, pistons reciprocable in the bores and having a spherical surface at one end of each piston, an inclined thrust plate mounted in the housing in driving relation with the pistons at their spherical ends and creating forces on the barrel perpendicular to the thrust plate at each bore the lateral components of which are transmitted as side thrust on the cylinder barrel, said valve plate having only flat surface contact with the barrel whereby to locate the barrel as to endwise motion and as to the direction of the barrel axis but leaving the barrel unconstrained as to lateral motion, and means having a universal and axially slidable contact with the barrel for locating the barrel as to lateral motion but imposing no constraint on the barrel as to endwise motion and as to the direction of its axis, the last means being located to have its universal movement about the point on the shaft axis which intersects the plane containing the centers of said spherical surfaces.

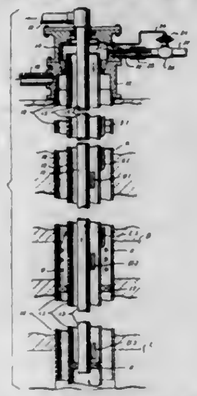
2,642,811
WELL FLOW APPARATUS AND SYSTEM
Clarence D. Fletcher, Fort Worth, Tex., assignor to Merla Tool Corporation, Dallas, Tex., a corporation of Texas
Application July 9, 1948, Serial No. 37,912
13 Claims. (Cl. 103—233)



1. A well flow apparatus including, a well casing extending within a well bore, a well tubing extending axially through the well casing and having a well fluid inlet in its lower end, means for packing off the annulus between said tubing and casing above the well fluid inlet, a lifting gas inlet line connected with the upper end of the casing, an inlet valve in said line for controlling the admission of lifting gas into the annulus, whereby said annulus may be charged to a predetermined pressure, a regulator actuated in accordance with the annulus pressure for controlling the operation of the inlet valve, and a pressure-actuated valve connected in the well tubing and having a predetermined fixed closing pressure controlled solely in accordance with the pressure in the annulus with its opening pressure variable and controlled by the back pressure within the flow conductor acting against said valve, said pressure-actuated valve controlling the admission of lifting gas from the annulus into the well tubing to lift the well fluids therein.

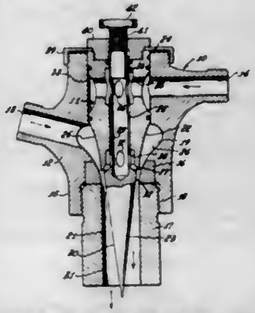
2,642,812
WELL FLOW APPARATUS
Art I. Robinson, Odessa, Tex., assignor to Merla Tool Corporation, Dallas, Tex., a corporation of Texas
Application June 13, 1949, Serial No. 98,863
11 Claims. (Cl. 103—233)

1. A well flow apparatus for lifting well liquids from a plurality of producing zones in a single well bore including, a well liquid conductor extending from each producing zone, a lifting fluid supply conductor extending within the well bore and common to all well liquid conductors, a plurality of series of pressure-actuated valves adapted to control the admission of lifting fluid to the well liquid conductors, each series of valves being associated with one of the well liquid conductors and being disposed at spaced elevations along said well liquid conductor, means for maintaining a predetermined constant lifting fluid pressure in the supply conductor, means in each valve actuated by the back pressure developed by the well liquid in each well liquid conductor for opening one of the valves in each series of valves to admit lifting fluid to the well liquid conductor associated with that series of valves, and means



for adjusting the closing pressure of each valve to compensate for the weight of the lifting fluid thereabove, whereby all of the valves have the same effective closing pressure and all of said valves are thereby closed when the pressure in the supply conductor falls to a predetermined point.

2,642,813
ASPIRATOR
Lee B. Woodruff, Los Angeles, James D. Alcorn, South Pasadena, and Henry H. Hammerstrom, Los Angeles, Calif.
Application February 13, 1950, Serial No. 143,936
9 Claims. (Cl. 103—271)



1. An aspirator comprising a tubular fluid passing body having a fluid inlet and an outlet spaced axially therefrom, said body having an inner wall with an annular tapering portion, an inner flow controlling unit within said body and about which fluid passing between said inlet and outlet flows, said unit including a first section having an annular outer surface forming with the inner wall of said body an annular relatively restricted first passage into which a first fluid is directed from said inlet, said unit including a second section having an annular outer surface downstream from said outer surface of the first section and forming with said

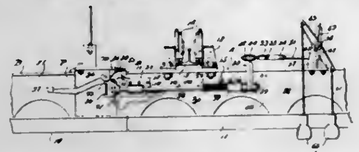
body wall a discharge passage of progressively increasing transverse section leading to the outlet end of the body, said first passage and said discharge passage each having a most restricted portion of minimum cross-sectional area, said sections having proximate annular outer portions in annularly spaced relation on which said outer surfaces are formed, said unit containing a passage communicable with a supply of a second fluid and leading said second fluid into the space between said outer portions of the sections for discharge through said space in an annular stream into the stream of said first fluid, said outer surfaces of the sections having annular portion near the point of introduction of said second fluid and opposite said tapering portion of the body wall and forming therewith said most restricted portions of the passages between said outer surfaces respectively and the body wall, and means mounting both of said sections for axial movement relative to each other and to said tapering portion of the body wall to vary the sectional area of said most restricted passage portions, and two individual control units operable to vary the positions of said two sections in accordance with the pressures of said two fluids respectively.

2,642,814

OVERHEAD MONORAIL SYSTEM

Alphonse F. Anjeskey, Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio

Application August 9, 1950, Serial No. 178,402
15 Claims. (Cl. 104—98)



1. In an overhead carrier system having supporting structures for carrier rails, one of which rails is adapted to be transported by one of said structures transversely of and into end to end alignment with another of said rails, means for securing said one rail in end to end alignment with said other rail comprising in combination, a lock member associated with said one rail and adapted to be biased to interlock with a part associated with said other rail when the rails are aligned, a latch adapted to hold said lock member from movement to its interlocking position, and means actuated by movement of said one structure to trip said latch to release said lock member.

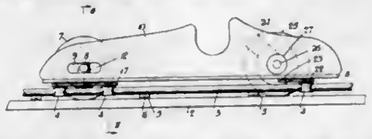
2,642,815

MODEL VEHICLE AND GUIDE RAIL THEREFOR

Henry Cyril Balgent, Bournemouth, England, assignor to Henri Balgent Limited, Bournemouth, England, a company of Great Britain

Application May 8, 1951, Serial No. 225,231
In Great Britain May 8, 1950
4 Claims. (Cl. 104—246)

1. A racing car for use upon a track having a guide rail of circular cross-section secured thereto for constraining the car to move along a predetermined path, comprising a body, front and rear axles mounted thereon, track engaging wheels on said axles for supporting the body upon the track, an upright support rotatably mounted upon said body above said rail and secured at its upper end to said front axle intermediate its wheels, a horizontally arranged plate positioned beneath said body and secured to the lower end of said support, a pair of rollers journaled upon and depending from said plate, adapted to engage opposite sides of the rail, a second horizontally arranged plate lying below said body and pivotally secured thereto at a point towards the rear of



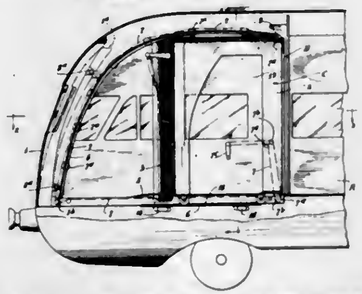
said car upon an axis at right angles to said track, and a pair of rail engaging rollers journaled upon and depending from said second plate and spaced longitudinally of its pivot to permit the body to swing tranversely of the rail, the walls of said rollers being hollowed out and the axes of the rollers of each pair being laterally spaced so that said walls embrace the rail permitting the rail to pass freely therebetween longitudinally of the car.

2,642,816

STREAMLINED CORRIDOR VEHICLE

Antonio Sbrighi, Milan, Italy, assignor to Societa Italiana Ernesto Breda per Costruzioni Meccaniche, Milan, Italy

Application April 20, 1949, Serial No. 88,535
In Italy October 15, 1948
1 Claim. (Cl. 105—8)



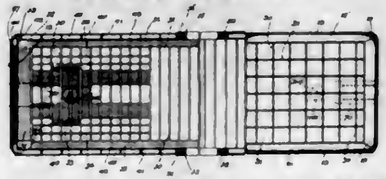
In a stream-lined vehicle having a passenger compartment, a control cabin at the end of the vehicle and an intermediate corridor between the compartment and cabin, the provision of retractible means for connecting the vehicle to another with intercommunicating corridors, said means comprising a doorway centrally located in the forward wall of the cabin, a door retractible from a vertical closed position in the doorway to a horizontal raised position above the cabin, a corridor section movable from a retracted position in the intermediate corridor to an extended position in the doorway, said corridor section having a floor and at least one side open for access laterally thereof, and including a folding door adapted to close the open side when the section is extended, a collapsible bood and a folding gangway connected to the forward part of said movable corridor section, a vertically movable floor section in the intermediate corridor whereby the floor of the movable corridor section may be lowered, when in retracted position on said movable floor, to the level of the passenger compartment floor, and the movable floor may be raised to said level when the movable corridor section is extended, and a cable transmission, including a crank mechanism, for coordinating the movements of the door to and from its raised position and of the movable corridor section to and from its extended position.

2,642,817

WOOD CELLULAR LAMINATED RAILWAY CAR

Bertrand Goldberg, Chicago, Ill., assignor to Pressed Steel Car Company, Inc., Chicago, Ill., a corporation of Pennsylvania

Application April 27, 1951, Serial No. 223,248
30 Claims. (Cl. 105—404)



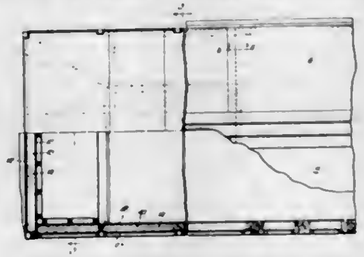
1. In a vehicle comprising a housing of laminated cellular construction having a unitary laminated cellular panel forming the floor thereof, the improvement comprising forming said floor over transversely extending supports, a plurality of filler units joining the ends thereof and a pair of bolsters extending transversely of the housing at either end thereof and fitted to said panel from the bottom, said bolsters being formed of a plurality of plywood laminations, the floor immediately thereover being characterized by the inclusion of filler blocks in an extended area corresponding substantially to that of the bolster.

2,642,818

REFRIGERATOR CAR

Paul Talmey, Chicago, Ill., assignor to General American Transportation Corporation, Chicago, Ill., a corporation of New York

Application November 5, 1947, Serial No. 784,203
8 Claims. (Cl. 105—409)



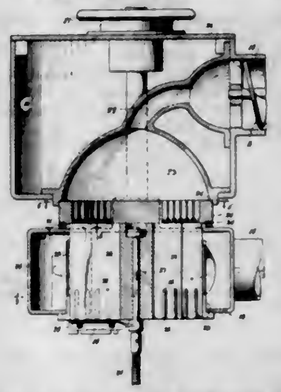
1. The combination with a refrigerator car having an outer shell having internal posts and carlines, of a thermal insulation lining comprising: sandwiches composed of a sheet of multi-cellular material of high compressive strength, sheets of rigid fibrous material secured on the opposite faces of said multi-cellular material, brackets on the posts and carlines of the shell of the car against which the outer sheets of fibrous material are disposed, bolts extending through said outer sheets and brackets to secure the sandwiches to the brackets, said multi-cellular sheets and inner fibrous sheets being perforated to give access to the bolts, and plugs composed of the same materials as the sandwiches for plugging said perforations after the bolts have been tightened.

2,642,819

MACHINE FOR MAKING FOOD PRODUCTS

James E. Birdsall, Bound Brook, N. J., assignor to C. F. Mueller Co., Jersey City, N. J., a corporation of Delaware

Application November 10, 1948, Serial No. 59,391
5 Claims. (Cl. 107—14)



3. A food product forming machine, including in combination an apertured die, a strand-guiding unit disposed below said die, an outer wall forming a part of said unit, radially extending spaced partitions connected to said wall and converging inwardly to separate strands formed by said die and passing through said unit, means providing a rotatable mounting in line with the inner ends of said partitions and severing means supported by said mounting to traverse a path adjacent the lower edges of said partitions and to cooperate with the latter to sever strands as they emerge from said unit.

2,642,820

METHOD OF MAKING CAKE CENTER FROZEN CONFECTIONS IN TWIN MOLDS

Clinton O. Lund, Chicago, Ill., assignor to Maun and Lund, Inc., Chicago, Ill., a corporation of Illinois

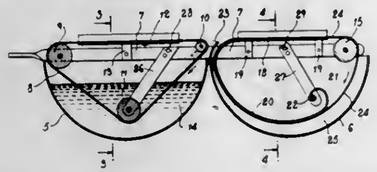
Application March 5, 1949, Serial No. 79,788
6 Claims. (Cl. 107—54)



1. The method of molding a cake center twin frozen confection, consisting in partially filling the individual twin mold pockets of a twin mold of ordinary construction with a liquid mixture; inserting a cake center coated with a thin vapor-deposited layer of an edible vegetable oil in said partially liquid mixture filled individual twin mold pockets, said cake center being inserted between the inner walls of the narrow connecting portion between the two cylindrical-like portions of the individual twin mold pocket; pressing said cake centers toward the bottom of said individual twin mold pockets until said cake centers are en-

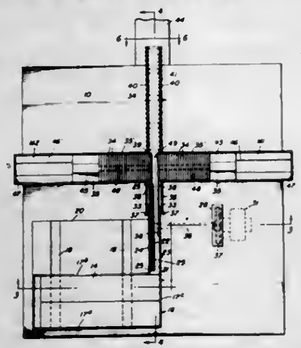
tirely within the individual twin mold pockets; removing from said twin mold the excess of said liquid mixture displaced by the insertion of said cake centers entirely within their respective individual twin mold pockets; subjecting said twin mold to the freezing action of a freezing medium for a period of time sufficiently long to freeze said liquid mixture to the desired degree of hardness; and removing the cake center twin frozen confections from said individual twin mold pockets.

2,642,821
METHOD INVOLVED IN THE APPARATUS FOR MECHANICALLY APPLYING SEEDS TO DOUGH FORMS
Charles Hettinger, Englewood, N. J.
Original application October 20, 1950, Serial No. 191,262. Divided and this application April 10, 1952, Serial No. 281,524
2 Claims. (Cl. 107—54)



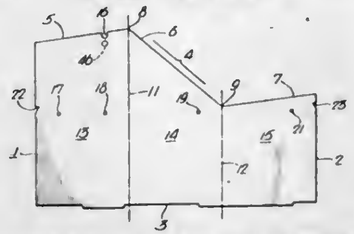
1. The method of applying edible units to dough forms which consists of continuously moving spaced dough forms along a predetermined, substantially horizontal path, spanning in substantially vertical, spaced relationship, a material source of moisture and a material source of edible units, continuously moving at substantially the same rate as said dough forms moisture and edible units from said sources to successive regions of said path, successively applying said moisture and edible units to the undersurface of the said moving dough forms.

2,642,822
METHOD OF MAKING SANDWICHES
Carlyle W. Gentry, Bluefield, W. Va.
Original application February 11, 1947, Serial No. 727,838, now Patent No. 2,521,213, dated September 5, 1950. Divided and this application December 26, 1947, Serial No. 793,859
2 Claims. (Cl. 107—54)



1. The method of making ice cream sandwiches comprising introducing a filling of hardened ice cream into an open-ended container, slicing said container and filling to form sandwich fillers, feeding said fillers successively in between two stacks of cakes simultaneously with slicing of the container and filling, and feeding the cakes of the stacks successively against opposite sides of the successively fed fillers simultaneously with the slicing of said container and filler and the feeding of said fillers, whereby to complete the sandwiches.

2,642,823
SHINGLE
Paul E. Williams, Ambler, Pa., assignor to Keasbey and Mattison Company, Ambler, Pa., a corporation of Pennsylvania
Application November 29, 1949, Serial No. 129,939
1 Claim. (Cl. 108—8)

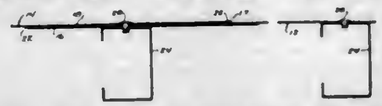


A shingle adapted for assembly side by side in overlapping courses with the shingles of each course in laterally staggered relation with the shingles of the adjoining courses, said shingle being generally trapezoidal in shape and of greater horizontal length than vertical height, the said height varying from side to side and there being points of maximum and minimum height located equidistant from the opposite sides of the shingle respectively and a corresponding distance from each other so that lines normal to the lower edge of the shingle and respectively intersecting the said points of maximum and minimum height will divide the shingle into three sections of equal width, and wherein the minimum height is more than one-half the maximum height, said shingle having a series of nail holes located on a common straight nailing line parallel to the bottom edge of the shingle and positioned slightly below the point of minimum height, the terminal nail holes of said series being positioned equidistantly inwardly from the proximate side edges of the shingle, a nail recess in the upper edge of the shingle end section having the point of maximum height, said recess being perpendicularly spaced from a line normal to the shingle base from the point of maximum height at a distance equal to the distance between a terminal nail hole and its proximate side edge, said recess also being vertically aligned with a nail hole on said nailing line, and another nail hole of said series being positioned on said nailing line adjacent to the point of intersection of said nailing line and a line normal to the base from the point of minimum height and spaced from the nail hole aligned with the nailing recess a distance equal to the width of a shingle section.

2,642,824
ROOFING AND ROOF CONSTRUCTION
Charles A. McElhone, Allen Park, Mich., assignor to Copco Steel and Engineering Company, Detroit, Mich., a corporation of Michigan
Application October 19, 1951, Serial No. 252,166
4 Claims. (Cl. 108—13)

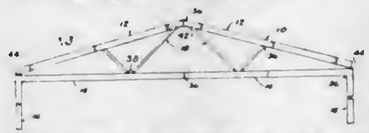
1. A roofing construction for housing units in which plane roof areas occur and including metal

trusses and sheet metal roofing panels, consisting of sheet metal roofing panels in which a center panel having its side edges arranged with protruding lower lips separated from said panel by a spacing strip is joined with end panels having attached protruding lower lips on the side edges contiguous to the shouldered spaced lips of said center panel, the lips of said end panels pro-



truding sufficiently to dovetail with the lips of said center panel, and a layer of adhesive mastic overlaying said center panel lips and under said end panel lips, the formed three layer sealed lap and butt joint being affixed to said metal trusses by suitable fasteners passed through said end panels, said center panel protruding lower lips and said metal trusses.

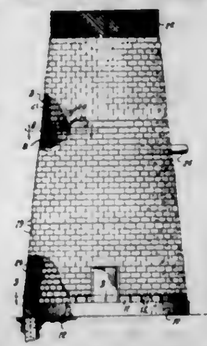
2,642,825
FOLDABLE AND COMPACTABLE TRUSS AND STUD SUPPORT
Charles A. McElhone, Allen Park, and Thomas G. Jones, Detroit, Mich., assignors to Copco Steel and Engineering Company, Detroit, Mich., a corporation of Michigan
Application November 1, 1951, Serial No. 254,340
10 Claims. (Cl. 108—23)



4. A foldable and compactable roof truss including C-section structurals made of sheet metal and consisting of top chord and bottom chord sections hingedly connected, the top chord sections abutting each other at the truss peak being joined by hinges affixed across the top chords with hinge pins in a vertical position, the bottom chord sections abutting each other at the truss span center being joined by hinges affixed across the bottom chords with hinge pins in a vertical position, the connection between top and bottom chords at the truss span ends being achieved by hinges affixed to the top and bottom chord sections there contiguous with hinge pins in a horizontal position.

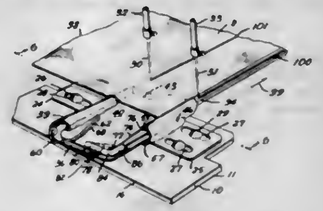
2,642,826
INCINERATOR
Charles C. Reynolds, Dallas, Tex.
Application June 23, 1952, Serial No. 295,014
2 Claims. (Cl. 110—18)

1. In an incinerator, a combustion chamber comprising at least two walls including separate inner and outer series of superimposed blocks, each block having vertical openings extending therethrough and communicating with the openings of the blocks of adjacent underlying and overlying courses of each series to define continuous upright passages spaced peripherally about the combustion chamber in each series; the passages in the outer series extending throughout the height of the incinerator and communicating with the atmosphere at the top and bottom of the incinerator; the passages in the inner series extending from the bottom of the incinerator to a point above the mid-height of the incinerator but terminating substantially below the top of the incinerator, and said passages in the inner series communicating with the passages of the



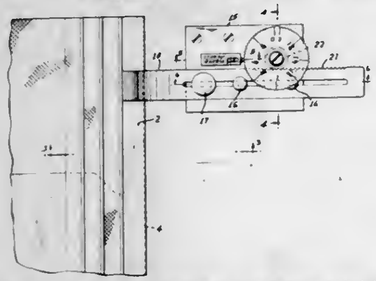
outer series at the bottom of the incinerator and opening into the interior of the combustion chamber adjacent the top only of the passages of the inner series, and cap means closing the passages of the inner series at the tops thereof.

2,642,827
HEMMER
Harry Sherman, New York, N. Y., assignor to Ardsley Curtain Co., Inc., New York, N. Y., a corporation of New York
Application November 9, 1948, Serial No. 59,075
3 Claims. (Cl. 112—141)



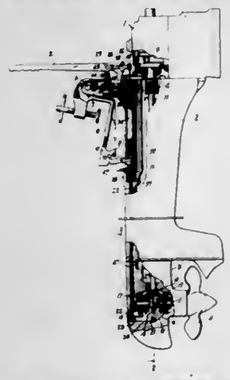
1. A hemmer comprising: a bottom plate; a top plate; a conically shaped free edge folding element connected to said top and bottom plates, at one edge of said bottom plate; a panel edge folding element spaced from said free edge folding element and disposed parallel thereto; said panel edge folding element having a lower portion interconnected with a second parallel edge of said bottom plate, and being free of interconnection with said top plate; said top plate having means to resiliently urge the same upwardly toward the upper portion of said panel edge folding element; said panel edge folding element having an upper portion disposed substantially above said top plate which is downwardly opening and having a groove therein, a lower portion which is disposed substantially below said bottom plate and which is upwardly opening and having a second groove therein, and a third portion connecting said upper and lower portions; an inner fold surface supporting member having a base portion which is secured to the upper surface of said top plate and a curled portion which is disposed adjacent the larger end of said conically shaped free edge folding element, and of such configuration as to correspond thereto.

2,642,828
TUCK-MAKING GUIDE
Thomas Edward Carroll, New York, N. Y.
Application June 14, 1950, Serial No. 168,068
2 Claims. (Cl. 112—144)



1. A tuck-spacing guide for sewing machines, comprising a guide member having a work-engaging portion and means for adjusting said member transversely of the path of movement of the work through the machine to shift the work-engaging portion to different predetermined distances from the line parallel with the feed passing through the projection of the needle, said means comprising a rack on said guide member, a pinion engaging said rack and means for locking said pinion in different positions of adjustment to hold the guide member against inadvertent movement, comprising an adjusting knob secured to said pinion having marginal notches corresponding to the positions of adjustment of said guide and a locking pawl positioned to engage said notches and hold said knob and pinion against movement, said guide member being slideably supported and at all times free to move under the action of said adjusting means.

2,642,829
ENGINE MOUNTING AND CONTROL SYSTEM
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application March 24, 1949, Serial No. 83,250
16 Claims. (Cl. 115—18)



1. In an outboard motor, a dirigible motor unit including an engine and an underwater propeller and reversing mechanism, a stationary bracket having an open sleeve pivotally supporting said motor unit for relative movement on a vertical steering axis, said motor unit being subject to torque vibration on said steering axis, a control arm including a control bracket pivotally carried by said sleeve independently of said motor unit, said control arm being adapted to pivotally move said control bracket therewith on said sleeve and being movable with respect to said control bracket in another direction, friction means yieldably securing and normally resisting pivotal movement of said control bracket on said sleeve and with respect to said stationary bracket, resilient means connecting said control bracket and said motor unit for steering by movement of said control arm and control bracket in the direction overcoming said yieldable friction means, and means passing through said sleeve connecting said arm and the reversing mechanism of said motor unit for control of the latter by movement of said arm in said another direction independently of the steering movement effected through said control bracket and unaffected by the vibration of the motor unit on its steering axis.

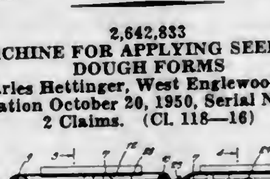
2,642,830
CURB SIGNAL
Fred J. Aves, Los Angeles, Calif.
Application September 25, 1950, Serial No. 186,612
1 Claim. (Cl. 116—28)



A device for signalling too close approach of a vehicle to a curb comprising a U-shaped bracket having means for clamping it to a fender of the vehicle, the closed end wall of the bracket having a longitudinal arched slot therein, a U-shaped retainer, means securing the closed end wall of the retainer against the closed end wall of the bracket for adjustment longitudinally of said slot, and a feeler comprised of a length of spring wire having its inner end formed into an open Archimedean coil adjustably secured at its axis between the side walls of the retainer and having an elongated outer end portion disposed to project laterally from said vehicle for engagement with said curb.

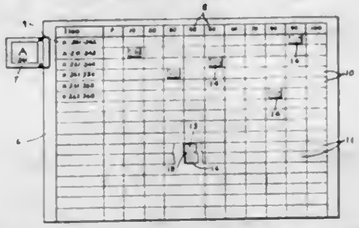
2,642,831
GASOLINE CAP SIGNAL
James H. Moye, Waycross, Ga.
Application January 19, 1950, Serial No. 139,344
4 Claims. (Cl. 116—109)

1. In a combined gasoline tank closure cap and signalling device for indicating the liquid level within the tank, a body having an opening extending therethrough, means on the body for locking the cap to the tank filling pipe, a resilient grommet surrounding said opening to effect an artight seal between the filling hose and the cap when the hose is inserted in the opening, and a whistle carried by the cap and in communication with the filling pipe immediately below the cap body whereby the upward movement of the air during the introduction of the



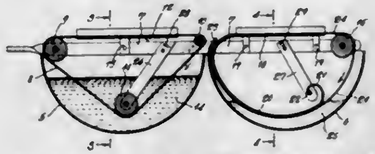
liquid into the tank will cause the air to pass through the whistle, thereby giving an audible signal.

2,642,832
VISIBLE RECORD DEVICE
Walter B. Brodtmann, New Orleans, La.
Application April 3, 1952, Serial No. 280,211
1 Claim. (Cl. 116—135)



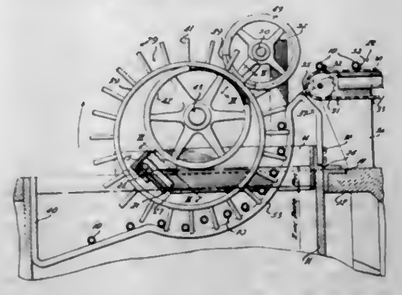
In a visible record device having a plurality of closely associated horizontal line strips arranged in succession, the combination of an indicator entirely of thin resilient material and consisting of an upper member adapted to be placed behind an associated line strip, a lower member adapted to be placed in front of an associated line strip to constitute an indicating member, a short lateral member extending between two adjacent line strips and connecting said upper and lower members, and an inturned end on said lower member engaging its associated line strip for applying stress in connection therewith to prevent the indicator from being accidentally displaced.

2,642,833
MACHINE FOR APPLYING SEEDS TO DOUGH FORMS
Charles Hettinger, West Englewood, N. J.
Application October 20, 1950, Serial No. 191,262
2 Claims. (Cl. 118—16)



1. An apparatus for moistening dough forms and applying seeds thereto including a pair of receptacles, one for holding liquids and one for holding seeds, said receptacles disposed in close proximity to each other and supported by a common, horizontally disposed frame, the first mentioned receptacle having a horizontally positioned bed and an endless conveyor trained over a drive and a guide roll mounted on said frame and a guide roll suspended in the receptacle from the frame and arranged for travel in the receptacle, and along the frame over the bed, and a second mentioned receptacle also having a bed positioned horizontally in the same plane as the first mentioned bed, said bed at its inward feed end extending downwardly into the receptacle, and a drive roll mounted on the frame, an endless screen conveyor arranged for travel around the bed and drive roll and having interstices therein sufficiently large to admit seeds therein, the first mentioned conveyor for moistening the bottoms of dough forms carried on the horizontal travel thereof over the first mentioned bed, the second mentioned conveyor for carrying seeds in the interstices thereof, for adherence to the bottoms of the moistened dough forms and means for driving the endless conveyors.

2,642,834
GALVANIZING APPARATUS
William S. Pearson, Baltimore, Md., assignor to Clifton Conduit Company, Inc., Baltimore, Md., a corporation of Maryland
Application May 11, 1948, Serial No. 26,440
8 Claims. (Cl. 118—74)

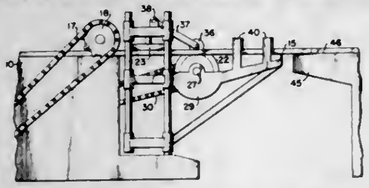


1. In combination in galvanizing apparatus, an impeller ring comprising a simple rim having a series of radial impeller pins thereon, a grooved pulley supporting and driving said impeller ring, means cooperating with said impeller ring to maintain the ring in driving engagement with the pulley, and guide means cooperative with the pins on said impeller ring for guiding articles to be galvanized as they are impelled through a galvanizing bath by said pins in the rotation of the ring by said pulley.

2,642,835
GLUE APPLYING APPARATUS FOR LUMBER GLUING MACHINE
Victor J. Winkel, Portland, Oreg., assignor to Laminated Lumber Products, Inc., Portland, Oreg., a corporation of Oregon
Original application November 11, 1952, Serial No. 772,565, now Patent No. 2,617,456, dated November 11, 1952. Divided and this application April 25, 1952, Serial No. 285,009
4 Claims. (Cl. 118—205)

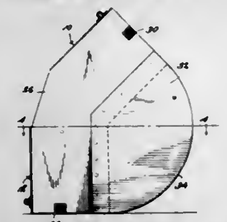
1. In a machine for making larger boards from smaller boards, an assembly table including a moving, supporting belt and a plurality of parallel guides positioned thereover to provide channels in which the smaller boards may be placed end-to-end in rows separated by the guides, and a plurality of adhesive applying means forwardly of said table adjacent the ends of said guides, each of said means comprising a pair of flexible discs whose edges extend between adjacent rows of smaller boards and a wedge-shaped spreader

extending between the flexible discs to spread the edges of said flexible discs into contact with



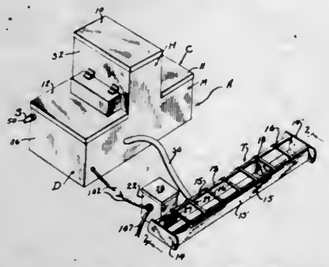
the adjacent faces of adjacent rows of smaller boards.

2,642,836
FISH BAIT INCUBATOR
Charles A. Brooks, Roanoke, Va.
Application June 1, 1951, Serial No. 229,453
1 Claim. (Cl. 119—15)



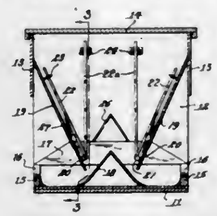
A device of the character described comprising a pair of receptacles each provided with a bottom wall, an outer wall, side walls, an inner wall, said side and inner walls being common to both receptacles and centrally disposed to extend said receptacles at an obtuse angle relative to each other, a pair of rockers each secured to a side wall and each having a convex outer edge, said outer walls defining an opening therebetween, a screened door for said opening hinged to the free end of one of said outer walls, said side walls each having openings therein adjacent their associated bottom walls, and a screen covering secured to said side walls and extending over each of said last-mentioned openings.

2,642,837
ANIMAL FEEDER
John L. Schroeder, Watertown, Wis.
Application March 7, 1951, Serial No. 214,253
2 Claims. (Cl. 119—52)



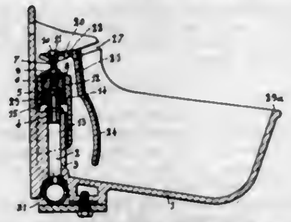
2. A dispensing apparatus of the type for automatically supplying a measured quantity of wet mash to an animal feed trough in response to the demands of the feeding animals including, a cabinet having a grain storage hopper and an agitating and mixing chamber therein, said grain storage hopper being disposed centrally of said cabinet above said agitating and mixing chamber and having a bottom opening communicating therewith, a rotatable measuring valve in said opening adapted upon rotation to deliver measured quantities of dry feed to the agitating and mixing chamber, a water supply pipe mounted below the hopper opening and adjacent the top of the mixing chamber, a valve in said water supply pipe controlling the delivery of water to the pipe and chamber, an agitating and mixing arm mounted in said agitating and mixing chamber for reciprocating movement therein, a pump adjacent the bottom of the agitating and mixing chamber having its inlet communicating with the chamber and its outlet communicating with the feed trough, means including a motor and drive elements for simultaneously actuating the rotatable measuring valve, the pump, and the agitating and mixing arm; and means responsive to the actuation of the rotatable measuring valve for opening the water supply valve, whereby measured quantities of water and dry grain are delivered to the agitating and mixing chamber.

2,642,838
LIVESTOCK FEEDER
Elta E. Fields, Marion, Ohio
Application July 10, 1950, Serial No. 172,974
2 Claims. (Cl. 119—53.5)



1. In a livestock feeder; a substantially rectangular bin formed with a hopper body defined by a pair of relatively spaced upstanding end walls and a pair of downwardly inclined convergent side walls; an inverted V-shaped compartmentating wall extending longitudinally of said hopper in spaced relation to the lower ends of the downwardly inclined side walls thereof, said compartmentating wall defining with the side walls of said hopper a pair of relatively restricted discharge passageways; a bottom wall disposed in vertically spaced relation to the lower ends of the side walls of said hopper and provided with an inverted V-shaped central portion extending longitudinally of the bottom wall in vertically spaced relation to said compartmentating wall, said inverted V-shaped portion of said bottom wall being disposed in spaced relation to the discharge passageways of said hopper and arranged to direct materials discharged from said hopper laterally toward the sides of said bin; means extending transversely of the bottom wall of said bin and dividing the latter into a plurality of separate feeding troughs; a plurality of swinging doors extending within each of the feeding troughs of said bin and hingedly connected with the lower ends of the side walls of said hopper, said doors being arranged to move inwardly and upwardly with respect to each feeding trough in response to abutment by the nose of an animal feeding within each trough; and agitator means pivotally connected with each of said doors and extending upwardly through one of the discharge passageways of said hopper in the vertical plane of its associated door and movable with said door to loosen material received within said hopper and bridging the discharge passages thereof immediately above said door, whereby to permit a portion of material disposed above said door to gravitate downwardly into the feeding trough into which said door extends.

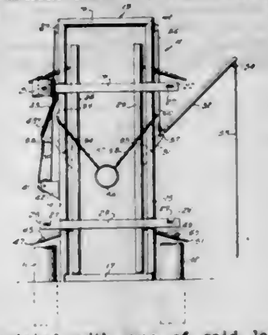
2,642,839
AUTOMATIC DRINKING TROUGH
Georges Marechal, Theux, Belgium
Application February 11, 1950, Serial No. 143,735
In Belgium February 14, 1949
1 Claim. (Cl. 119—75)



An automatic drinking trough comprising a basin, a vertical hollow cylindrical guide-pillar in said basin adjacent the rear wall thereof having a discharge nozzle at the upper end and connected at the lower end with a fluid feed pipe, a vertically reciprocatable weight having a vertical guide groove at the rear embracing the major portion of the guide pillar, a valve device supported by said weight in a position to seat on said discharge nozzle when said weight is in lowered position, said valve device being situated above the center of gravity of said weight, an actuating plate comprising a substantially vertical arm extending across the basin, a substantially horizontal arm integral with said vertical arm and extending rearwardly therefrom to overlie said weight, and pivoting means releasably engageable with the sides of said basin, a rod extending upwardly from said weight having head means thereon, and a releasable pivoting connection between said substantially horizontal arm and said head means.

2,642,840
STOCK RESTRAINING GATE
Albert S. Hill and Richard H. Hill, Caddo, Okla.
Application December 28, 1950, Serial No. 203,074
7 Claims. (Cl. 119—98)

1. An animal holder comprising a pair of vertical members, each having a pulley at its upper end, a pair of vertical jaws disposed between said vertical members for movement toward and away from one another; a first lever pivotally mounted on one of said vertical members and having an inner end operatively connected to one of said jaws; a second lever pivotally mounted on the other of said vertical members and having an inner end operatively connected to the other of said jaws, said first and second levers having outer ends; a flexible member connecting said outer ends and operable on the pulleys of said vertical member for causing simultaneous inward movement of said jaws in relative parallelism upon pivotal movement of one of said levers; a downwardly and outwardly extending hollow guide member on each of said vertical members; a downwardly and outwardly extending support member on each of said jaws slidingly telescoped in the guide member of an adjacent vertical member; and means operatively associated with one of said levers for maintaining the other end of said one of said levers in a downwardly pivoted position.



2,642,841
LINE-SPACING COPYHOLDER
Rudolph Funk, Ivyland, Pa.
Application July 7, 1950, Serial No. 172,397
8 Claims. (Cl. 120—34)



1. A line-spacing copy holder comprising a plate, means for supporting the plate, a guide rail mounted on the plate perpendicular to the plane thereof and having parallel guide edges each projecting and located beyond the plane of the plate, a line-spacing carriage comprising a frame, peripherally grooved rollers on the frame for guided rolling contact with the said guide edges said rollers being plural spaced pairs respectively engaging opposite edges of said rail, means establishing friction laterally between the carriage and the plate to restrain the guided motion of the carriage, means for moving the carriage step by step downwardly, and a spacing bar pivotally mounted on the carriage and overlying the plate.

2,642,842
FOUNTAIN PEN
David Kahn, Englewood, and Karl Weisser, Cresskill, N. J., assignors to David Kahn, Inc., North Bergen, N. J., a corporation of New Jersey
Application October 11, 1946, Serial No. 702,753
10 Claims. (Cl. 120—46)

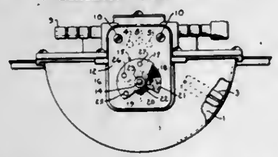
1. In a writing instrument having a writing point and a feed channel communicating there-

with, a reservoir for writing fluid comprising an elongated writing chamber for said writing fluid opening into said feed channel, an elastic sac member within said chamber having a closed end and its upper open end and its interior open to the atmosphere, and exerting a constant pressure on said fluid to force the fluid into said feed chan-



nel, a spider about the lower closed end of said sac member having an annular central portion about said sac member and a plurality of arms extending from said central portion into sliding contact with the walls of the elongated chamber so as to centralize said sac member within said chamber.

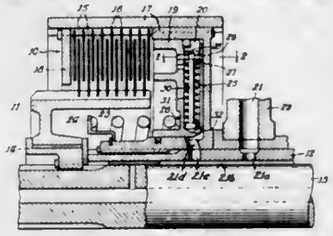
2,642,843
AIR FILTER
Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application September 19, 1949, Serial No. 116,529
7 Claims. (Cl. 121—1)



1. A subassembly for a fluid operated motor comprising a support provided with an opening, a member connected to the support, and a filter disposed between the support and member, said member while connected to the support being readily movable so that one portion of the filter may be utilized to filter air adapted to pass to the opening and then another portion may be used for the same purpose.

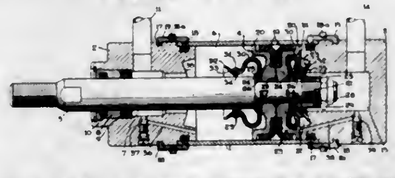
2,642,844
CLUTCH PISTON SAFETY VALVE
George E. Flinn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 9, 1948, Serial No. 64,361
4 Claims. (Cl. 121—38)

1. In a hydraulic system, in combination, a rotatable member having a hollow bore, a piston in said bore, means for supplying fluid under pressure into said bore and including a conduit connected with the bore substantially at its inner periphery, said piston being provided with a fluid discharge opening therein adjacent its outer periphery for releasing fluid within the bore so that fluid under centrifugal force in the bore will not be effective to move the piston when no fluid is supplied through said conduit to said bore, a valve carried by said piston and effective for opening and closing said dis-



charge passage and responsive to the fluid pressure within said conduit, and means acting on said valve to prevent movement of the valve due to centrifugal force.

2,642,845
PISTON CUSHIONING APPARATUS
Roy R. Stevens, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application December 20, 1950, Serial No. 201,855
7 Claims. (Cl. 121—38)

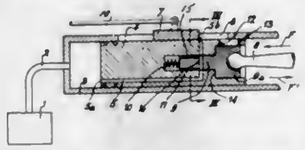


1. In a fluid pressure motor, the combination with a cylinder, heads closing opposite ends of said cylinder, a piston in said cylinder movable by fluid under pressure supplied to a chamber between said piston and one of said heads in the direction of the other head, a passageway in said other head through which fluid is adapted to be displaced from a chamber at the opposite side of said piston upon said movement of said piston, a normally extended compressible bell like annular element secured at one end to said piston and projecting therefrom with an opposite open end arranged for engagement with said other head around the opening of said passageway to the last named chamber from an intermediate position of said piston in said cylinder to the end of the piston stroke during said movement of said piston, and a constantly open restricted passage open to the last named chamber outside said element providing a leak for fluid therefrom.

2,642,846
HYDRAULICALLY OPERATED DEVICE FOR CONTROLLING THE POSITION OF IMPLEMENTS CARRIED BY TRACTORS
André L. A. Morgen, Reims, France
Application August 8, 1950, Serial No. 178,194
In France September 14, 1949
3 Claims. (Cl. 121—41)

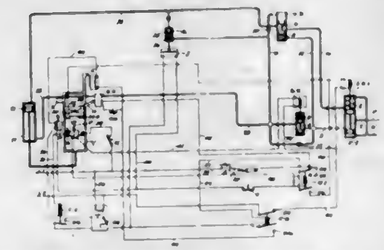
1. A hydraulically-operated device for controlling the position of an agricultural implement carried by a tractor, of the type including a cylinder on said tractor closed at one end and provided with an intake opening at said end and an exhaust opening spaced therefrom, a piston in said cylinder provided with a passage for connecting

up said intake and exhaust openings, valve means displaceable longitudinally of the cylinder for controlling said exhaust opening, and a source of liquid under pressure continuously discharging through said intake opening, said device comprising a slidable member fitted into an axial recess of said piston across said passage, and provided with a duct adapted to register in one



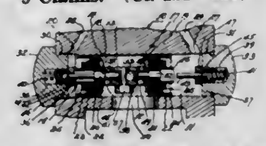
relative position of the piston and the slidable member with said passage, abutting means for said slidable member in said piston when in said relative position, a linkage between said slidable member and said implement, adapted to urge said slidable member inwardly of said piston when the implement tends to move downwards, and resilient means for urging said slidable member outwardly of said piston.

2,642,847
ELECTRIC CONTROL SYSTEM FOR HYDRAULIC STEP DRILLING MACHINES
Alden T. Roys, Worcester, Mass., assignor to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts
Application March 16, 1948, Serial No. 15,058
4 Claims. (Cl. 121—45)



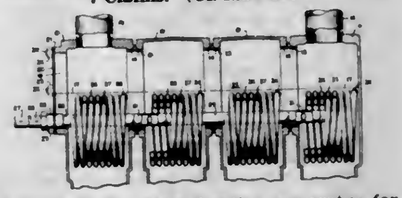
1. High speed electrically operated valve actuating means for a step by step drilling machine or the like including a hydraulic cylinder and piston, a main valve and a slow feed valve, a member secured to the piston and a slip block on the member, comprising a pair of electric contacts in the path of the slip block and adapted to be actuated seriatim thereby, electrical means to reverse the valves, the first contact to be actuated by the block energizing the electric means for the slow feed valve to cause the piston to travel at slow feed, a timing device, a relay, a pair of contacts for operation by the relay, one contact being closed and the other open, the second of the first pair of contacts energizing the timer upon actuation by the slip block and the timer after its predetermined period energizing the relay to actuate the second pair of contacts, the one of which being opened deenergizes the electrical means for the valves, and the one of which being closed maintains the relay energized, whereby the piston moves into fast return, a fifth contact actuated by the member as the latter reaches its uppermost position to open the relay circuit to reverse the positions of the second pair of contacts, whereby the electric valve reversing means is again energized and the cycle repeats.

2,642,848
AIR VALVE MECHANISM FOR CONTROLLING THE OPERATION OF PNEUMATIC DEVICES AND THE LIKE
George M. Walraven and Raymond G. Knudsen, Kenosha, Wis., assignors to Snap-On Tools Corporation, Kenosha, Wis., a corporation of Delaware
Application September 23, 1947, Serial No. 775,719
5 Claims. (Cl. 121—123)



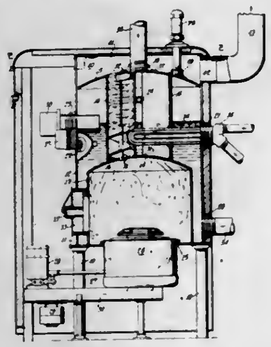
1. In an air valve mechanism, the combination with a cylinder, of a reciprocable shank in said cylinder, spaced pistons on said shank in said cylinder, flexible liners on said pistons in air seal engagement with said cylinder, there being spaced air intake ports in said cylinder, said intake ports communicating with said cylinder proximate to the ends thereof to provide for greater spacing distance than the spacing of said pistons, there being spaced exhaust ports in said piston shank, end closures detachably associated with said cylinder, slidable piston-type reciprocable valves in said shank to control said exhaust ports, yieldably mounted elongated axial bumper means in the end closures of said cylinder to reverse the reciprocation of said pistons and simultaneously actuate said exhaust port valves, there being an opening in said cylinder between said pistons, and means on said piston shank for connection of an actuated member to project through said last named opening in said cylinder.

2,642,849
COIL FOR TANKLESS WATER HEATERS
Anthony J. Donohue, Merion, Pa.
Application March 8, 1952, Serial No. 275,511
7 Claims. (Cl. 122—32)



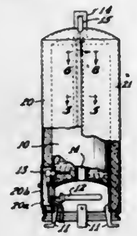
1. In domestic water heating apparatus for a sectional boiler with horizontally alined connecting openings between the water spaces at the top of the boiler sections and with an opening in an end boiler section alined with said connecting openings, the combination comprising a mounting plate for closing said end opening, a pair of manifolds carried by said mounting plate for cold water supply and hot water delivery, a plurality of inner and outer helical coils surrounding said manifolds at a plurality of spaced locations, the outer coils of each pair being connected at one end to one of said manifolds and at the other end to one end of an inner coil and the other end of said inner coil being connected to the other of said manifolds.

2,642,850
HEATING PLANT
Ralph W. De Lancey, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application February 9, 1950, Serial No. 143,291
5 Claims. (Cl. 122—156)



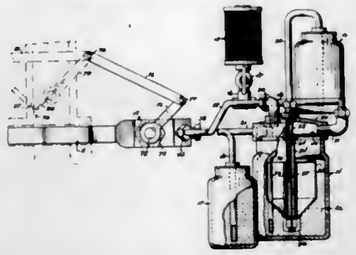
1. A high output, small dimensioned, compact oil fired heating plant having a rating of the order of 466 square feet of boiler steam radiation, comprising a natural draft producing stack, a boiler of smaller dimension and water capacity than the customary boiler of similar output and provided with a fire box also of smaller dimension to have smaller combustion space than the customary boiler of similar input so that the ratio of square feet of steam radiation rating for the boiler to the square feet of combustion chamber heating surface is substantially greater than in customary heating plants of similar output and of the order of 51, the fire box having vertical walls and an apertured crown sheet, vertical tubes extending upwardly from the crown sheet to traverse the water space of the boiler and through which products of combustion escape, spiral baffles occupying the lower portions only of the tubes immediately above the crown sheet to offer resistance to the passage of the products of combustion and facilitate the transfer of heat to the boiler content, a forced draft oil burner immediately below the fire box and of a draft and fuel capacity of the order of one gallon per hour which maintains the entire fire box under positive pressures of from about five one-hundredths to about ten one-hundredths of an inch of water, and produces flame which impinges on the fire box walls and crown sheet and lower ends of the baffles to heat the baffles to temperatures at which deposit of soot thereon is prevented under the conditions of excess oxygen maintained by the forced draft insufficient to drive flame beyond the baffles and flame wherein the primary combustion of the fuel takes place throughout the fire box and about the lower part of the baffles and the transition to secondary combustion takes place along the baffles, the aerodynamic resistance provided by the baffles and the transfer of heat to the boiler content accounting for the draft loss between the positive pressure conditions in the fire box and the negative pressure conditions at the top of the boiler and a stack temperature of not more than about 600° F.

2,642,851
WATER HEATER JACKET
Frank A. McFerran, Pittsburgh, Pa.
Application June 13, 1950, Serial No. 167,777
7 Claims. (Cl. 122—494)



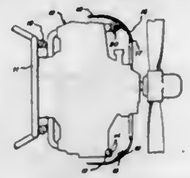
1. A water heater jacket, in assembly constituting a complete jacket for the walls and top of a water heater, and comprising two members of semi-cylindrical form each having a half-top member, each of said half-top members having half-openings for a vent pipe and for water fittings, one of said semi-cylindrical members having an aperture for a control window, each said member comprising an outer shell member and a lining of insulating material, said members along substantially, the entire length of their meeting side and top edges having cooperating joint forming elements, the joint forming element on one of said semi-cylindrical members comprising an inwardly offset flange, and the joint forming element on the other semi-cylindrical member comprising a flange along the inside of said shell member, spaced therefrom, extending beyond the edge thereof, and terminating in an outwardly extending bead.

2,642,852
ADDED AIR CHARGE AND WATER INJECTION SYSTEM
Leonard R. Bester, Washington, D. C.
Application February 28, 1949, Serial No. 78,711
9 Claims. (Cl. 123—25)



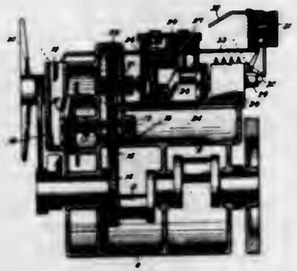
1. A supplementary liquid or auxiliary fuel charger for internal combustion engines comprising a suction element positioned in the fuel intake passage of the engine, said element having a side connection opening to the atmosphere for added air, means supplying moist air to the said side connection of the suction element, means supplying water to the said side connection of the suction element, means supplying extra fuel to the said side connection of the suction element, and adjusting means regulating the fluids and water injection entering said side connection.

2,642,853
MOUNTING FOR AIRCRAFT ENGINE COWLS
Samuel E. Hinkle, Houston, Tex.
Application January 17, 1950, Serial No. 138,961
3 Claims. (Cl. 123—41.7)



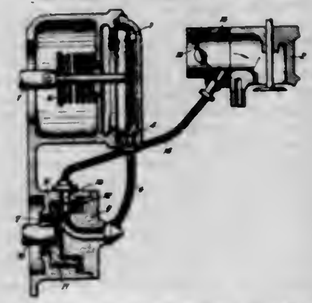
1. Means for mounting a cowl provided with socket structures on a radial engine provided on each cylinder head with an apertured cowl supporting lug comprising a plurality of bracket assemblies each adapted to be secured at one end to an engine carried lug and to be received at its opposite end in a corresponding cowl carried socket, each of said bracket assemblies comprising a flat arm having a wide end and a narrow end and curved edges between its wide end and its narrow end, a rectangular head secured on the narrow end of said arm, and a cushion of resilient material enclosing said head and the head adjacent portion of said arm with its head enclosing portion dimensioned to fit closely into a cowl carried socket.

2,642,854
TWO-STROKE CYCLE ENGINE WITH SUPERCHARGING INJECTION PUMP
Otto Elwert and Adolf Schnürle, Stuttgart, Germany; said Otto Elwert assignor to said Adolf Schnürle; Gertrud Schnürle, sole heir of said Adolf Schnürle, deceased
Application September 9, 1949, Serial No. 114,822
In Germany May 13, 1949
29 Claims. (Cl. 123—55)



1. In a V-type two stroke cycle air scavenged engine: a centrifugal scavenging air blower, an ignition system, a piston type blow-in pump for furnishing high pressure air for blowing fuel into the engine cylinders, each acting side of a piston of said pump working in conjunction with an engine cylinder, said piston type pump being mounted within the space between the two cylinder banks, the drive of both said centrifugal blower and of said blow-in pump being taken off the engine crankshaft.

2,642,855
PNEUMATIC GOVERNOR FOR COMPRESSION IGNITION ENGINES
Pier Giorgio Vanni, Milan, Italy, assignor to Robert Bosch G. m. b. H., Stuttgart, Germany
Application April 2, 1952, Serial No. 280,151
In Italy April 4, 1951
14 Claims. (Cl. 123—140)



1. In a pneumatic governor for compression ignition engines, including a connection between the governor and the induction system of the engine, the provision of a valve control member in said connection and means for actuating said valve control member in timed relationship with the engine so as to open said valve control member to connect the induction system of the engine with the governor during the induction stroke of at least one piston of the engine.

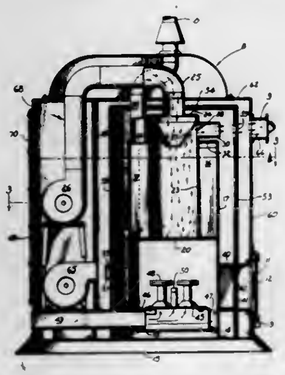
2,642,856
ABRASIVE WHEEL DRESSER
Otto H. Calloway, Chicago, Ill.
Application November 21, 1950, Serial No. 196,899
4 Claims. (Cl. 125—11)



1. An abrasive wheel dresser comprising: a support base; a spindle rotatably mounted in said base; means including a lever secured adjacent to one end of said spindle to facilitate manual rotation of said spindle; an annular member secured to the end of said spindle opposite said lever, said annular member being rotatable with said spindle responsive to manual actuation of said lever; means calibrated in degrees on the periphery of said annular member for indicating the arc of rotation of said spindle; means for restricting rotation of said spindle within predetermined limits including a ring member carried by the periphery of said annular member and rotatable therewith, a pair of stop members slidably carried by said ring member for manual movement to predetermined selected positions to define the limits of rotation of said spindle, and a stationary stop member carried by said support base and engaged by said movable stop members responsive to manual actuation of said lever to

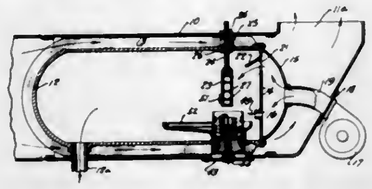
positions defined by the limits of rotation of said spindle; a mounting bar fixedly secured to said annular member and rotatable therewith, said mounting bar being of substantially rectangular shape and having three equi-distantly longitudinally spaced apertures; a slide adjustably carried by said mounting bar and movable diametrically of the axis of rotation of said spindle between three selective stages of adjustment to vary the capacity of the dresser, said slide having three equi-distantly spaced apertures corresponding to said apertures in said mounting bar; an insert disposed in one of said apertures in said mounting bar, and a screw threaded member disposed in an aperture of said slide and a portion of which is adapted for receipt into said insert for maintaining said slide and mounting bar in one of said three selective stages of adjustments; a slide carrier slidably carried by said slide; an arm fixedly secured to said slide carrier for movement therewith, said arm projecting from said slide carrier in a direction transversely of the sliding movement of said slide carrier; a tool removably carried by said arm; and means including a set screw retaining the disposition of said tool with respect to said arm.

2,642,857
FORCED AIR FLOW AIR HEATING FURNACE
Leo N. Walter, Lansing, Ill.
Application March 30, 1949, Serial No. 84,419
8 Claims. (Cl. 126—110)



5. A forced air heater comprising an upright closed container having an air and fuel inlet and adjacent its top a combustion products outlet, a smaller closed container mounted within the upper portion of said first container for direct contact with combustion products, said small container having a centrally located air inlet at its top and an air outlet duct in its side wall near the top, means for supplying air under pressure to said air inlet of said smaller container, a jacket surrounding the sides and top of said first container and having a single air inlet and a single air outlet, a second jacket surrounding said first jacket and having a single air inlet and a single air outlet, said jackets having their air inlets aligned with each other and their air outlets aligned, said air outlet duct terminating within said first jacket and being aligned with the air outlets of both jackets whereby the discharge of air therefrom ejects air from within said jackets.

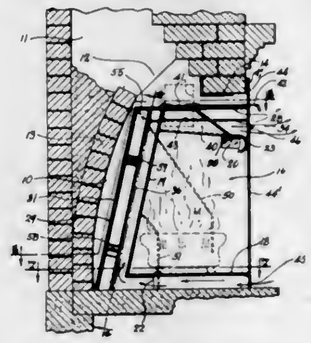
2,642,858
FUEL BURNING AIR HEATING DEVICE
Ernst H. Piesset, Sherman Oaks, William R. Elswick, Santa Monica, and Paul A. Palmer, Los Angeles, Calif.; said Elswick and said Palmer assignors to said Piesset
Application September 30, 1948, Serial No. 52,032
6 Claims. (Cl. 126—116)



6. In an internal combustion heater, means forming a sealed horizontally disposed combustion chamber having inlet and outlet passageways at opposite ends, blower means connected to one said passageway for producing a flow of air through said combustion chamber, a fuel conduit extending into said chamber near the end having the inlet passageway, a flat fuel vaporizing burner supported on said conduit and having a wall disposed in a vertical plane transverse to said flow of air and adapted to permit liquid fuel to drip therefrom, means for directing fuel from said conduit to the downstream face of said wall so that vaporization and burning will occur on the downstream side of the burner relative to said flow of air, a fuel igniting structure located below said burner and embodying a pan positioned to collect raw fuel dripping from the bottom of said burner which is delivered thereto from said conduit when said burner is cold, an electrically energizable means mounted within the combustion chamber and located in such relation to said pan as to heat to vaporization the fuel collected therein, means mounted within said combustion chamber adjacent to said energizable means for shielding said vaporized fuel from said flow of air while supplying an amount of air thereto to form a combustible mixture, said shield directing the flame from the igniting structure into heat transfer relationship to the burner whereby the fuel delivered thereto is vaporized, mixed with air and burned so that no further fuel is delivered to said pan, said energizable means being a glow coil which is partially immersed by the fluid collected in the pan for heating said fluid to vaporization, the part extending above the fluid being available to ignite the vaporized mixture, said pan sloping toward a well therein through which the glow coil extends which heats the initial flow of oil as it collects thereabout, said glow coil being removable from said pan exteriorly of the combustion chamber, vanes extending from said combustion chamber longitudinally thereof, and an outer casing surrounding said chamber and engaging the outer ends of said vanes for forming longitudinal air passages extending from one to the other end of the combustion chamber.

2,642,859
FIREPLACE HEATING SYSTEM
Newman T. Brown, Edmonds, Wash., assignor to Frank A. Mortimer, Seattle, Wash.
Application May 20, 1949, Serial No. 94,398
2 Claims. (Cl. 126—121)

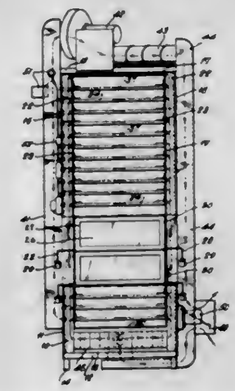
1. A unitary, portable, circulating air heater, adapted to be disposed within a fireplace combustion chamber and to close the front thereof, said heater comprising a firebox that is open to the front of the fireplace, an air heating chamber immediately surrounding the firebox except at the front thereof, and having an air inlet into the lower portion of the chamber below the firebox and having an air outlet from the upper portion thereof above the firebox, the air inlet being enclosed along opposite sides to conduct incoming air below the firebox to near the back of the chamber for upflow at sides and back thereof, thence to be discharged through the air outlet, a smoke chamber enclosing the back, sides and top walls of the air heating chamber, and a top opening from the smoke chamber into the fireplace combustion chamber for flow of smoke to



the fireplace flue, a flue for the firebox providing direct outflow of smoke and gases to the fireplace flue and having lateral outlets into the smoke chamber, a damper for the firebox flue adjustable to an open position for direct flow of smoke to the fireplace flue, and adjustable to a closed position for diverting smoke and gases to the fireplace flue through said smoke chamber, baffles disposed in the smoke chamber to direct the circulation of smoke and gases therethrough downwardly at the sides of the firebox and to the back thereof, and baffles on the back wall of the smoke chamber being so disposed as to cause the smoke and gases that enter from opposite sides at the bottom to flow upward through a central opening, thence to be diverted toward the opposite sides and subsequently to the outlet of the smoke chamber.

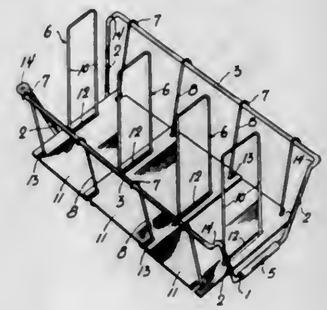
2,642,860
DOUGH CONDITIONING APPARATUS
Herbert T. Hunter, Baltimore, Md., and Ben W. Wilson, Manhasset, N. Y., assignors to Doughnut Corporation of America, New York, N. Y., a corporation of New York
Application November 17, 1950, Serial No. 196,114
9 Claims. (Cl. 126—281)

1. A proofing apparatus of the character described comprising a cabinet having a top wall and a bottom wall, laterally spaced apart inner and outer side walls, and strips joining the adjacent edges of said side walls to define a cavity between each pair of inner and outer side walls, each of said inner side walls having a plurality of regularly vertically spaced horizontal slits formed therein, a vertical exhaust manifold, a plurality of vertically spaced ducts connected to said manifold and projecting into the interior of said cabinet, said ducts having ports formed therein substantially intermediate said side walls, and air circulating means having its outlet and



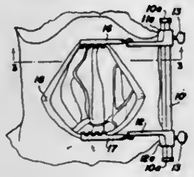
inlet connected to said cavities and manifold respectively.

2,642,861
ACCESSORY FOR FILES
Bernhard Tvedt, Simonsvik, near Bergen, Norway
Application January 30, 1951, Serial No. 208,479
In Norway February 2, 1950
2 Claims. (Cl. 129—16)



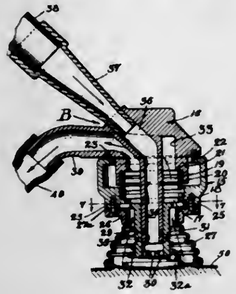
1. In a filing device for cards or the like having spaced parallel supporting rails, transversely extended partitions swingably supported between the rails, said partitions being shaped of stiff wire to have parallel spaced horizontal portions below the level of the rails, upstanding separating frames on said horizontal portions intermediate of their ends with the top ends of said separating frames projected above the rails and substantially vertical upright portions on the ends of said horizontal portions engaged at their top ends with the rails, a horizontal base section between each adjacent pair of partitions, said base sections having adjacent end portions overlapped and rested down on said horizontal portions, said overlapped end portions having aligned elongated slots through which said upstanding separating frames extend to retain said base sections against being displaced in the plane of each other.

2,642,862
SURGICAL RETRACTOR
Henry M. Jackson, Salt Lake City, Utah
Application February 25, 1952, Serial No. 273,176
2 Claims. (Cl. 128—20)



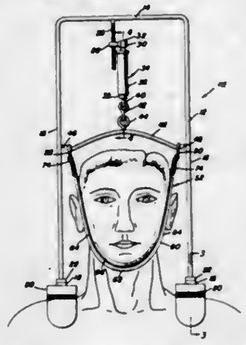
1. A surgical retractor made up of an elongate slideway bar, and a pair of elongate jaw-carrying arms mounted in mutually opposed relationship on and extending laterally from and transversely to the said slideway bar, said retractor being characterized by the fact that the jaws form longitudinal extensions of the respective arms, and are pivoted in free-swinging relationship to the free ends of said arms on axes which are substantially aligned end-to-end and substantially parallel with the slideway bar; and by the further fact that flesh-retracting members extend laterally from and transversely of the jaws.

2,642,863
BODY TREATING APPARATUS
Harry L. Gordon, Sunland, Calif.
Application July 17, 1951, Serial No. 237,081
5 Claims. (Cl. 128—38)



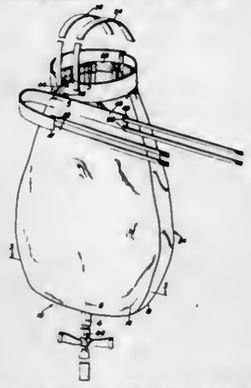
1. An apparatus of the character described, including: a hollow body having a first section provided with an open inlet end and an open outlet end, and a second section telescoping in the first section to occupy one position in which it closes the inlet end and another position in which it opens the inlet end; means for urging the second section to the second mentioned position; a cup secured to and surrounding the outlet end of the first section; a nozzle fixed to the first section and disposed within the cup; a pipe fixed to the second section and telescoping in the nozzle; an inlet passage in the second section leading to the pipe and adapted for connection to a source of hot air under pressure; an outlet passage in the second section leading to the interior of the first section, and adapted for connection to a source of vacuum; and manually operable means for pressing the cup into contact with the skin, and moving the second section to close the inlet end of the first section.

2,642,864
AMBULATORY TRACTION SPLINT FOR OSTEAL DEFORMITIES
Thomas C. Ward, Waco, Tex.
Application November 13, 1951, Serial No. 255,920
2 Claims. (Cl. 128—75)



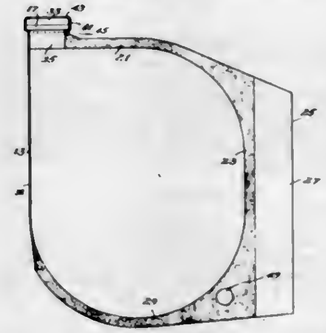
1. An orthopedic brace of the character described, comprising an inverted U-shaped frame adapted to be supported solely by the shoulders and extend above the head of a user, shoulder engaging pads provided at the lower ends of said frame, a screw-threaded stud depending from the bight portion of the frame and coplanar therewith, a nut adjustable longitudinally on said stud, a laterally projecting pin on said nut, an elongated suspension member attached at one end thereof to said pin and including a pair of slidably telescoped sections and resilient means for sliding the same together, a cross bar connected intermediate its ends to the other end of said suspension member, and a head engaging harness connected to said cross bar.

2,642,865
SLEEPING BAG FOR BABIES
Frank E. McGann, Jr., Troy, N. Y., assignor of one-half to Barbara M. McGann, Troy, N. Y.
Application July 13, 1950, Serial No. 173,529
1 Claim. (Cl. 128—134)



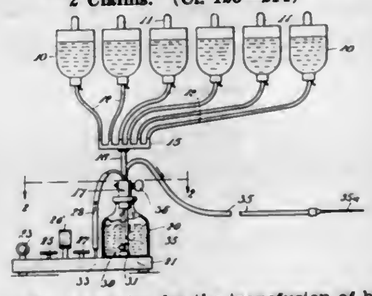
An infant's sleeping bag comprising: a casing having an open end, a waistband secured to said open end, tying straps secured to said waistband and said casing respectively for securing the sleeping bag to a crib, one of said tying straps comprising an elongated flexible member having a pair of strings secured to each end and adapted to be tied around the longitudinal bars of a baby's crib, a pair of flexible and spaced parallel upper and lower joining straps permanently connecting said flexible member to said waistband for limited movement of the sleeping bag with respect to the tying straps, and a pair of shoulder straps having rear ends secured to said waistband and spaced apart to receive the joining straps therebetween.

2,642,866
BLOOD CONTAINER AND METHOD OF MAKING THE SAME
Arthur F. Smith, Webster, N. Y.
Application February 3, 1951, Serial No. 209,243
13 Claims. (Cl. 128—214)



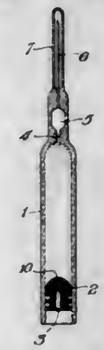
1. A fluid container comprising a substantially rigid neck tube, and a body of flexible plastic sheeting folded upon itself to provide two overlying walls wrapped tightly around said neck tube at one point of the perimeter of said walls, said two overlying walls being sealed to said neck tube and to each other along a line extending approximately around the perimeter of their free edges to form a tight enclosure the interior of which is accessible only through said neck tube.

2,642,867
APPARATUS FOR THE TRANSFUSION OF BLOOD
Herman H. Livingston, Bronx, N. Y.
Application August 16, 1952, Serial No. 304,722
2 Claims. (Cl. 128—214)



1. In an apparatus for the transfusion of blood to patients, having a supply container with a dependant tube, and a flask below said tube, the combination of means for supplying gas to said flask, a tube for receiving blood from within said flask and extending outwardly thereof with a needle at its end, a casing in said flask at its neck opening having a valve with a handle, said valve having passages in registration with said blood supply tube and with the atmosphere, and with the blood for the patient, and said casing having a passage for the gas supply to the interior of said flask, and a float valve means interposed between the blood in the flask and the blood supply tube having the needle, to shut off blood, gas, and air from said needle.

2,642,868
SURGICAL AMPOULE-SYRINGE
Oswald H. Pontius, Frankfurt am Main Hochst, Germany, assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany, a company of Germany
Application May 19, 1949, Serial No. 94,069
In Germany February 24, 1949
1 Claim. (Cl. 128—218)

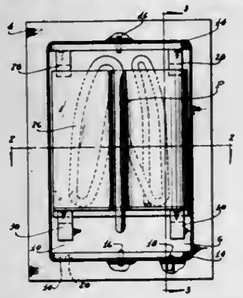


A surgical ampoule-syringe comprising a liquid-filled cylindrical container sealed at one end by a piston stopper and constricted at the other end to form a projecting stem, a cannula mounted in said stem, a gas-tight cover connected to said stem over the outer end of the cannula, an enlarged space formed in the stem adjacent the mounted cannula end, a narrow passageway formed in the stem and leading from the container to said enlarged space, said enlarged space being in communication with the inner end of the cannula and adapted to contain an entrapped gas therein, said passageway being of such dimensions as to operate as a capillary conduit and with the aid of the said entrapped gas within the gas-tight cover, cannula and enlarged space to function as a valve and prevent entrance of the liquid from the container into the enlarged space through said passageway until the gas-tight seal formed by the said cover is broken.

2,642,869
WALL FOUNTAIN SYRINGE
Clara Ellen Dye, Shreveport, La.
Application April 6, 1951, Serial No. 219,681
2 Claims. (Cl. 128—227)

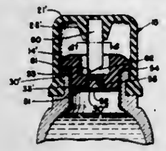
1. A wall fountain syringe comprising a semi-cylindrical housing having top and bottom end walls and an open front, the forward edges of said housing being flanged to provide a frame about the front normal to said end walls, a panel member including a pair of faces for closing said

housing, means revolvably connecting said panel member to said top and bottom end walls whereby either of said faces may be presented outwardly from said housing, said connecting means including a pair of laterally projecting flanges on one of said faces, one of said flanges extending along the upper edge of said face and the other extending along the lower edge thereof, and pivot pin connections joining each of said flanges, midway between the sides of said panel member, to the adjacent end wall, a substantially semi-cylindrical liquid container having an open top and a bottom end wall with a tubular liquid outlet extending downwardly therefrom, means detachably supporting said container on the face having said laterally projecting flanges, said con-



tainer having a diameter substantially equal to the width of said panel member but the extremities thereof lying within the path covered by said panel member when the latter is rotated whereby the container may be stored within the housing in concealed position, or withdrawn therefrom into position for use, means including a flexible conduit connected to said tubular liquid outlet for withdrawing liquid from said container, and a substantially vertical, outwardly opening groove lying in direct alignment with said tubular outlet and extending the entire length of said container for receiving a portion of said flexible conduit when the latter is stored with said container in concealed position within the housing.

2,642,870
RECEPTACLE CLOSURE
Arthur E. Smith, Los Angeles, Calif.
Application August 26, 1950, Serial No. 181,668
1 Claim. (Cl. 128—272)



A closure device comprising an inner body portion and a flexible outer closure, said body portion having a flanged portion adapted to engage the end of the neck of a bottle, said inner body portion having a sleeve portion adapted to fit within a bottle neck, said sleeve portion having an elastic, normally planar diaphragm intermediate the length thereof, there being an inner and an outer recess in the body portion with the diaphragm closing communication between the recesses, a closure member engaging the inner body portion and including a body portion closing the inner end of the inner recess, the closure member including an annular side wall adapted to engage a bottle neck and an end flange adapted to engage the end of a bottle, a medicinal preparation in said inner recess, said outer closure having an inwardly directed stem movable therewith, and a piercing tube carried by said stem, said piercing tube having a beveled sharpened point adapted to pierce said diaphragm and said closure member body portion.

2,642,871
FORCEPS
Joseph Thuerig, Cincinnati, Ohio
Application May 12, 1951, Serial No. 225,987
3 Claims. (Cl. 128—321)



1. A forceps comprising a pair of pivoted members, finger supporting means at one end of said members, tongs at the other end of said members, said tongs having forward line gripping edges, and said tongs provided with transverse inverted obtuse angular meeting faces opposed to each other and extending rearwardly from said line gripping edges.

2,642,872
DEVICE FOR PIERCING EARS
Joseph A. Parker, Los Angeles, Calif.
Application October 7, 1950, Serial No. 188,992
3 Claims. (Cl. 128—329)



1. An ear piercing needle comprising a sharp pointed solid end portion and a shank portion having circular cross-sections of equivalent diameter, said sharp pointed end portion having a central threaded bore at an end remote from the point, said shank portion having a threaded extension of reduced diameter shorter in length than the central bore, the outer end of said extension having an outside diameter adapted to be snugly received in the central bore.

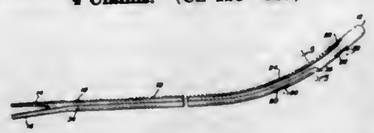
2,642,873
ASPIRATING TROCAR
Edward R. Rice, Worcester, Mass.
Application February 12, 1949, Serial No. 76,121
6 Claims. (Cl. 128—347)



1. A device of the class described comprising inner and outer hollow contacting members, means to move one member relative to the other,

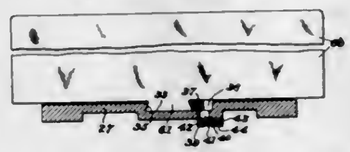
each member having holes therein at one end mutually arranged for alignment and misalignment simultaneously so that some combined holes are wholly open and others partly opened, as determined by the relative positions of the members, the inner member forming a duct to and from the holes, the holes of the outer member being countersunk and providing sharp shearing edges at the outer surface of the inner member.

2,642,874
INSTRUMENT FOR TREATING PROSTATE GLANDS
Wilmer B. Keeling, Meherrin, Va.
Application June 4, 1951, Serial No. 229,748
4 Claims. (Cl. 128—349)



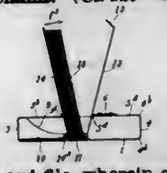
1. An instrument for treating the prostate gland, seminal vesicles and the male posterior urethra comprising an elongated cannula having a rounded somewhat blunt distal closed end adapted for unhampered insertion in the patient's urethra and a bifurcated trailing end, a first conduit extending longitudinally through said cannula and one of the furcations and terminating at one end adjacent to said distal end, said conduit being adapted to receive and conduct gas under pressure, longitudinally spaced resiliently inflatable sleeves carried by said cannula and communicating with said conduit, said sleeves being expandable under gas pressure to enlarge the effective diameter of said cannula at two longitudinally spaced positions, and a second medicinal fluid-conveying conduit extending longitudinally through said cannula and the other furcation, said second conduit terminating at one end in a discharge opening located midway between said spaced inflatable sleeves.

2,642,875
FILING DRUM
Richard P. Scholfield, New York, N. Y.
Application July 3, 1945, Serial No. 603,025
4 Claims. (Cl. 129—16)



1. A rotatable filing drum comprising a rim having means associated therewith defining a circumferentially extending, undercut groove having diverging, fixed and rigid side walls, with the exception of certain sections of at least one of said side walls, which sections are translationally laterally movable, to increase the width of said groove adjacent said sections, for the insertion into said groove of means having inclined sides, complemental in shape to the undercut groove, and means for holding the movable sections in alignment with the fixed sections to maintain the groove in the narrow condition.

2,642,876
CARD FILE BOX
Marcelle D'Heilly, Paris, France, assignor to Societe Anonyme de l'Ecluse, Tangiers, North West Africa, a joint-stock company of Tangiers, North West Africa
Application April 11, 1950, Serial No. 155,292
In France April 13, 1949
5 Claims. (Cl. 129—43)



1. An index card file, wherein cards are stored with the least possible dead space and wherein the cards may be individually examined without removal from the box comprising, in combination: a card wrapper comprising a back and two cheeks hinged to the back, the cards being stacked between and substantially in register with the cheeks, whereby upon partial opening of the wrapper the cards may be supported on either cheek for examination, a box comprising a hollow shoe member comprising a bottom wall, two longitudinal side walls, a rear transverse end wall and a fixed partial cover portion joining the side and end walls, and a relatively movable closure member comprising a front transverse end wall hinged to the end of the bottom wall remote from the rear end wall and a movable partial cover portion hinged to the front end wall, the dimensions of the fixed and movable cover portions being such that the difference between the total length of the box and the sum of the lengths of the two cover portions exceeds the width of the wrapper, internal guide ramps on the side walls curving from an intermediate point thereof rearwardly and upwardly from the bottom wall to the fixed cover portion, and means extending from the back of the wrapper for cooperation with said ramps.

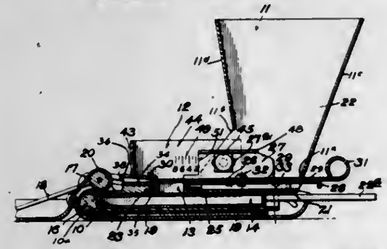
2,642,877
FLAILING TYPE BEATER MEANS FOR THRESHING APPARATUS
Howard M. Dodge and Clarence Neff, Wabash, Ind., assignors to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application November 17, 1948, Serial No. 60,604
6 Claims. (Cl. 130—27)



1. A gang beater assembly for use in a thresher having a rotatable cylinder structure, said beater assembly comprising an elongated rigid bar adapted to be secured rigidly to the cylinder structure of the thresher for rotation with such structure and for facile removal and replacement, an elongated rubber beater member disposed in spaced generally parallel relation to the rigid bar and generally coextensive in length therewith, and a plurality of rubber stems formed integrally with the rubber beater member and spaced along the length of the latter said stems each extending between the rubber beater member and the rigid bar and each being secured to the rigid bar for supporting the beater member in

said spaced parallel relation whereby upon securing the rigid bar to the cylinder structure of a thresher the rubber stems extend from the rigid bar generally radially outwardly with respect to the rotational axis of the cylinder and the rubber beater member is supported on the rigid bar at points spaced along the length of the beater member wholly by the integral rubber stems and in radially outwardly spaced relation to the rigid bar for deflection circumferentially of the cylinder structure by bending of the rubber stems.

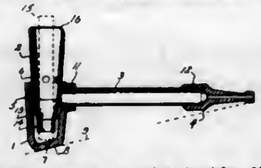
2,642,878
TOBACCO FEEDING DEVICE
George Zint, Wapakoneta, Ohio
Application May 15, 1950, Serial No. 161,939
6 Claims. (Cl. 131—44)



1. A filling device for a cigarette rolling machine having a tobacco receiving channel comprising a casing having a substantially flat lower portion with an open front end for insertion into said tobacco receiving channel of the rolling machine, a tobacco supply hopper rising from the rear portion of said lower portion and having side walls and a front wall with an open lower portion, a tobacco-confining, U-shaped member disposed above the flat lower portion of said casing and having its arms overlapping the inner faces of the side walls of said supply hopper adjacent the open lower portion of said front wall of the latter, a tobacco measuring hopper positioned between said member and said flat lower portion of the casing, said measuring hopper having a stationary front wall, a slide beneath said supply hopper and forming the rear wall of said measuring hopper, said slide having upright side flanges contacting with the inner faces of said side walls of the supply hopper and formed with opposed longitudinal slots, said side walls and arms having openings, screw-threaded fastenings passing through said slots and through said openings in said side walls and in said arms to fasten said member and to secure said slide in an adjusted position, a reciprocable cutting blade slidably mounted on said slide and having a cutting edge movable across the top of said measuring hopper, and a plunger in said lower portion of said casing and reciprocable across the bottom of said measuring hopper.

2,642,879
CIGARETTE HOLDER
Francisco Angel Quiros, Newark, N. J.
Application October 4, 1949, Serial No. 119,424
4 Claims. (Cl. 131—174)

1. A cigarette holder of the character described, comprising in combination, a tapered cup having the upper part wider and open and the lower part being closed and including an inclined wall, said cup being provided with an outlet bole located near the top substantially at right angles to the axis of said cup and above the upper point of the inclined wall, a tube engaging the outlet hole at one end by a taper fit and supporting a mouth piece at the other end, a tapered sleeve having the same degree of taper on the outside as the cup has in the inside, with the exception of the lower end of said sleeve which has a greater degree of taper and an end having a small cylindrical section which is the part which holds the cigarette in position, said sleeve having an outside diameter about the

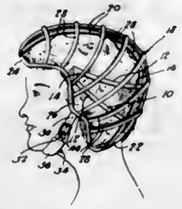


middle section equal to the inside diameter of the rim of the cup, so that it can be taper fitted and firmly secured coaxially with the cup, in such a position that the bottom of the sleeve will be a short distance above the inclined bottom wall of the cup in order to leave enough room for a portion of the cigarette to extend out of the sleeve and provide the means by which the cigarette butts can be removed, said sleeve being provided with a plurality of small holes around the circumference just outside of the cup, said holes being large enough to supply enough air to maintain combustion while the holder is not in use by the smoker.

ERRATUM

For Class 132—7 see:
Patent No. 2,643,375

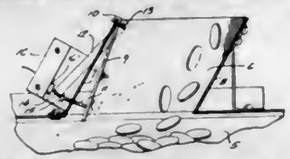
2,642,880
HAIR GUARD
Dominick Theodore Corette, Woodside, N. Y.
Application September 11, 1952, Serial No. 309,105
3 Claims. (Cl. 132—46)



1. A hair guard comprising a resilient crown piece adapted to embrace the back of the head of the user, spacing fingers carried by and extending outwardly from the crown piece, and a resilient openwork helmet carried by the spacing fingers and adapted to enclose the hair and scalp of the user.

2,642,881
COIN SORTER CONTROL MECHANISM
Arnold R. Buchholz, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application August 28, 1950, Serial No. 181,712
2 Claims. (Cl. 133—3)

1. In a coin sorting machine having a series of coin receptacles arranged in a single row, one for each denomination of sorted coin, an electric motor for driving said sorter, a current supply circuit for said motor, and a chute for each receptacle to direct sorted coins thereto, said chutes being arranged in a row above the row of receptacles, of a plate pivotally hung from the top of a side of each chute and extending the length of said side and operable by the coins when they reach a predetermined height within the associated receptacle, said plate having a projection working through an opening in the side of



the receptacle from which it is hung, a control switch to cut off the supply of current to the motor, and single switch operating means disposed exterior of and extending along the entire row of said chutes and adapted to be moved by any one of said projections, so that movement of any one of said plates will move said control switch to motor stopping position.

2,642,882
COIN SORTING AND COUNTING MACHINE
Arnold R. Buchholz, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application August 30, 1950, Serial No. 182,209
2 Claims. (Cl. 133—8)



1. In a coin sorting machine of the type in which the coins are sorted in a rotary member provided with radially disposed slots having graduated width pockets for different denominations of coins, and a counter for each denomination of sorted coins and coin operated counter drive mechanism for each of the counters, each drive mechanism including a movable finger disposed to project into a slot extending across a pocket and movable toward the bottom thereof to be engaged and moved by a sorted coin in said pocket as it passes beneath said finger, the combination with said movable finger of shoes disposed in front of and in back of said coin operated finger and engageable with a sorted coin in said sorting pocket as the coin is carried by said rotary member face up in contact with and past said finger, a support for said shoes, said shoes being yieldingly mounted on said support for radial movement relative to said rotary member and acting to yieldingly hold a sorted coin flat against the bottom side of said pocket while engaged by said finger.

2,642,883
WALL STRUCTURE
Victor H. Hasselquist, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application February 1, 1949, Serial No. 74,033
12 Claims. (Cl. 135—1)

1. A walled structure comprising a wall having a pair of pliable sheets, each sheet having the shape of a developed conical surface, said sheets being secured to each other along lines corresponding to straight elements of the cone and defining elongate pockets therebetween, means for inflating said pockets to stiffen said wall, and means for sealing said pockets when said wall is arranged in the shape of a conical enclosure,



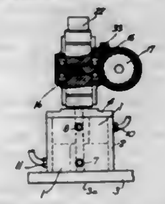
said means comprising a ring insertable within the conical enclosure near its apex, and clamping means adapted to clamp said wall to said ring.

2,642,884
CANE
Glenn A. Henderson and William H. Winborne, Los Angeles, Calif.
Application August 20, 1949, Serial No. 111,355
11 Claims. (Cl. 135—45)



6. A cane including, an elongate tubular metal body, two elements one secured to each end of the body and one detachable from the body, one element being a handle and the other a tip, and a sound deadener in the body including a packing of loose granular material in the body, substantially filling the body.

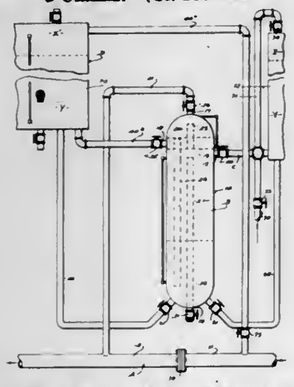
2,642,885
GYROSCOPIC VALVE CONTROL FOR HYDRAULIC CIRCUITS
Elmer C. Wade, New York, N. Y.
Application June 7, 1947, Serial No. 753,235
4 Claims. (Cl. 137—38)



3. In combination, a cylindrical valve chamber, a valve body rotatively mounted in said chamber, said valve body having a pair of separate recesses therein, said chamber having a pair of ports disposed to be covered by said valve

body and adjacent opposite edges of each recess in a predetermined relative rotative position of the chamber and valve body, pressure fluid supply means connected to open into one of said recesses, exhaust means connected to open into the other of said recesses, a shaft for turning said valve body, a first gyroscopic rotor mounted to turn with said shaft, a second gyroscopic rotor mounted to turn with said shaft and disposed with its spin axis in a common plane with that of said first gyroscopic rotor, means for supplying energy to said rotors to maintain them at constant speeds, and level indicating means associated with said valve body.

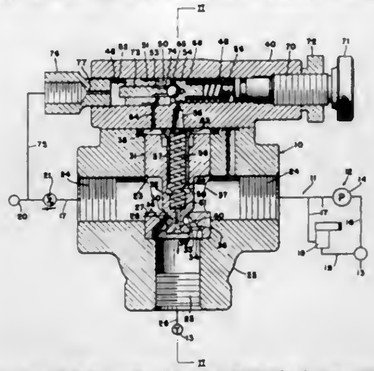
2,642,886
LIQUID FEEDING APPARATUS
David B. Bell, Long Beach, Calif.
Application August 1, 1949, Serial No. 107,842
5 Claims. (Cl. 137—98)



1. In combination, a flow line with a high pressure section and a low pressure section, a liquid feed including, a feed chamber, a storage chamber, an inlet to the feed chamber, an outlet from the feed chamber, a bleed duct from the feed chamber to the storage chamber, and a make-up duct from the storage chamber to the feed chamber, liquid supply means including a valve controlled supply line supplying liquid to the liquid feed, a pressure line connected to the inlet and adapted to connect to the high pressure section of the flow line, a delivery line connected to the outlet and adapted to connect to the low pressure section of the flow line, and means for maintaining liquid from the flow line out of contact with the liquid to be fed, said means being disposed in the pressure line.

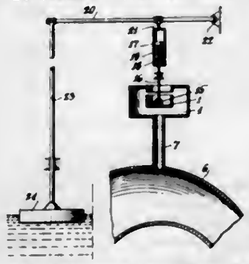
2,642,887
UNLOADING VALVE
Wendell E. Renick, Grove City, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio
Application August 21, 1947, Serial No. 769,804
11 Claims. (Cl. 137—108)

1. In a hydraulic system of the type having a source of fluid pressure and an accumulator connected with said pressure source; an unloading valve between said pressure source and said accumulator comprising a body with a chamber communicating with said pressure source and an exhaust port; a valve seat between said chamber and said exhaust port; a piston body supported for sliding movement in said chamber; a valve movable with said piston body and cooperable with said seat to control fluid flow from said chamber to exhaust; passage means in one of said bodies establishing limited communication between the ends of said chamber at opposite ends of said piston body; mechanism for creating pressure differentials at opposite ends of said piston, said mechanism having a second chamber; a second valve seat dividing said second chamber into sections, one of said sections being connected with said exhaust port and another being connected by a restricted passage with the



end of said first chamber opposite that communicating with said pressure source; a second valve means yieldably engaging said second seat; an auxiliary imperforate piston supported in the section of said second chamber communicating with said first chamber for movement toward and away from said second valve, one end of said auxiliary piston being exposed to the pressure in the section of said second chamber connected with said first chamber; and conduit means for applying fluid at accumulator pressure to the other end of said second mentioned piston.

2,642,888
APPARATUS FOR REGULATING THE DISCHARGE OF LIQUIDS THROUGH SIPHONS
Pierre F. Danel, Grenoble, France, assignor to Etablissements Neyrpic, Grenoble, France, a corporation of France
Application December 30, 1947, Serial No. 794,686
In France December 23, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 23, 1966
10 Claims. (Cl. 137—143)



1. An apparatus for controlling the flow of a liquid, comprising a siphon, an air inlet connection to the throat of the siphon, means for controlling the flow of air through said connection, said means comprising a valve movable toward open position in response to an increase in the depression of the pressure in said siphon, means operatively connected with said valve for constantly imposing a restoring force thereon tending to move said valve toward closed position and means responsive to a change in the demand for the liquid being discharged through said siphon to automatically modify the degree of depression maintained in said siphon.

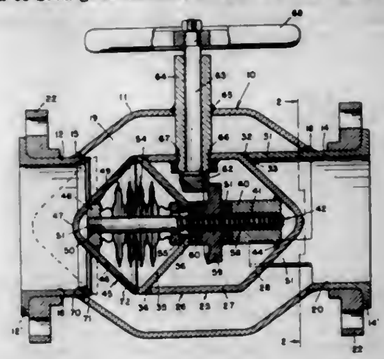
2,642,889
GAS LIFT VALVE
Leslie L. Cummings, Houston, Tex., assignor to Cummings, Inc., Houston, Tex., a corporation of Texas
Application March 19, 1951, Serial No. 216,381
7 Claims. (Cl. 137—155)



1. A gas lift valve, comprising, a tubular body adapted for co-axial insertion in a pipe string, an annular valve chamber concentrically surrounding said body and having longitudinally spaced inlet and outlet ports communicating respectively with the exterior of said chamber and the interior of said body, a tubular valve member constructed of flexible resilient material co-axially mounted in said valve chamber, said valve member being annularly expansible and contractible to control the passage of fluid through said chamber between said ports, and means for maintaining a pre-determined pneumatic pressure on the side of said valve member adapted to normally urge same to an expanded valve-closing position.

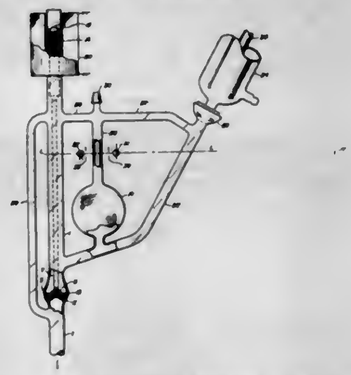
2,642,890
VALVE
William H. Skewis, Los Angeles, Calif.
Application July 2, 1949, Serial No. 102,910
2 Claims. (Cl. 137—219)

1. A valve, comprising a tubular wrought valve body including a central annular shell and a pair of tubular end sections of less diameter welded thereto one at each end of the shell, one of said end sections having circumferentially spaced arms projecting into said shell, a gear housing carried by said arms and having a diameter no greater than said one end section, a threaded valve stem mounted for axial movement in said gear housing and projecting axially therefrom away from said end section with said arms, a conoidal valve element mounted on said stem, a valve seat formed on the inner end portion of the other of said end sections, a longitudinally flexible bellows surrounding the projecting portion of said stem and secured at its ends to said valve element and gear housing respectively, a valve stem operating shaft extending from exteriorly of said valve body to the interior of said gear housing, a sleeve secured to said valve body and to said gear housing rotatively receiving said



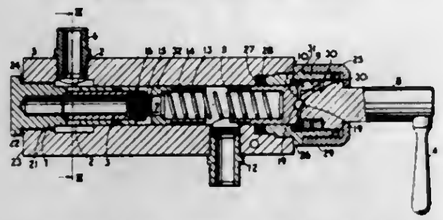
shaft, and interengaging gear means on said shaft and said valve stem for moving said stem axially in response to rotation of said shaft.

2,642,891
MERCURY SEALED VALVE
Robert D. Harrison, Orinda, and Harry G. Hall, Martinez, Calif., assignors to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware
Application August 22, 1950, Serial No. 180,824
7 Claims. (Cl. 137—248)



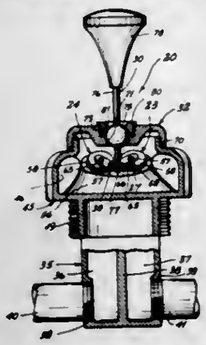
1. A glass valve structure designed to shut off the flow of a fluid against a differential pressure not exceeding a predetermined maximum comprising a tubular housing, an annular well affixed to the interior wall of said housing having an annular lip coaxial with said housing and a central orifice, a movable inverted cup adapted to be inserted into said housing and to encircle said lip with its rim extending into said well, means for withdrawing said cup from said well, and close-fitting cylindrical surfaces on said lip and on said cup at the area of encirclement of said lip by said cup, the clearance between said cylindrical surfaces in closed position of the valve being insufficient to permit mercury to enter therebetween under a differential pressure equal to said predetermined maximum.

2,642,892
PRESSURE REDUCING VALVE
Archie Simons, Leicester, England, assignor to Power Jets (Research and Development) Limited, London, England
Application September 24, 1946, Serial No. 698,900
In Great Britain October 4, 1945
2 Claims. (Cl. 137—529)



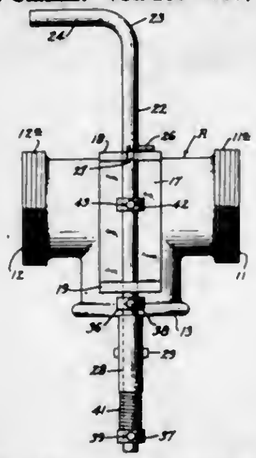
1. A liquid flow pressure reducing valve comprising a valve body having an inlet for high pressure liquid, said body being internally shaped to form a hollow cylinder affording in part a swirl chamber, the wall of said hollow cylinder being provided with at least one tangentially directed aperture which communicates on the one hand with the interior of the chamber and on the other hand with the inlet thereby imparting a swirling motion to the liquid as it passes into said chamber, a cylindrical valve slidably arranged within said hollow cylinder having a metering edge for controlling the effective area of the tangentially directed aperture and being hollow to afford a bore communicating at one end of the valve directly with said swirl chamber and at the other end with a region of said hollow cylinder remote from the swirl chamber, said valve body having an outlet communicating with said hollow cylinder at said region thereof remote from the swirl chamber, whereby liquid is constrained to flow from the inlet through said aperture into the swirl chamber and thence through the valve bore to the outlet while swirling and so its pressure is gradually reduced.

2,642,893
MIXING VALVE CONSTRUCTION
Richard Murray Lottes, St. Louis, Mo.
Application November 14, 1947, Serial No. 785,940
11 Claims. (Cl. 137—607)



6. Valve construction comprising a housing including two separated fluid inlets, a closure valve element mounted in each inlet for helical rotation about angularly disposed individual axes, a single control member for said valve elements, said control member having extensions both inside and outside of the housing and a pair of identical links disposed within the housing directly connecting said valve elements and said control member for rotative movement of either or both valve elements by said control member, each of said links extending through a respective one of said individual axes and having a slidable connection with said control member.

2,642,894
VALVE CONSTRUCTION
Edward N. Burnett, Oakland, Calif., assignor to Gerber Products Company, Fremont, Mich., a corporation of Michigan
Application September 28, 1950, Serial No. 186,862
2 Claims. (Cl. 137—703)

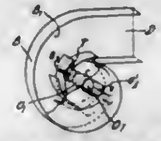


1. A valve construction comprising, a valve housing having an inlet port and a depending drain port, said drain port defining a bore formed with a valve seat, a valve head for said valve seat, a bracket mounted exteriorly of said housing and laterally of said bore, a shaft disposed parallel to the axis of said bore supported slidably and rotatably by said bracket and arranged for movement in the direction of its own axis, a stop element associated with said shaft to limit the extent of permissible downward movement of said shaft, a sleeve mounted slidably on said shaft, a spring mounted on said shaft spring biasing said sleeve in a direction upwardly of said shaft, a projecting arm carried by said sleeve and movable correspondingly therewith, said arm supporting said valve head, said valve head being movable with said arm and shaft into and out of seating engagement with said valve seat, a projecting pin provided on said shaft cooperable with a slot in said bracket for releasably locking said shaft in position when said shaft, said arm, and said valve head have been moved to an upward position whereat said valve head is seated in said seat against the force of said spring.

2,642,895
AERODYNAMIC VALVE
Jean H. Bertin and Raymond H. Marchal, Paris, France, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a company of France
Application February 16, 1948, Serial No. 8,625
In France September 5, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 5, 1966
1 Claim. (Cl. 138—37)

In a gaseous stream controlling device, the combination of a casing having a cross-sectional rounded spiral shaped outline, said casing being provided with a conduit tangentially connected

to said outer rounded part and with two lateral plane side walls having axial openings and defining at the same time the side walls of said conduit, a revolution chamber inside said casing, arranged coaxially with respect to said casing and constituted by a set of nozzles having each with respect to said revolution chamber a tangential outlet having the same direction as



that of said conduit with respect to said casing, said nozzles being divergent in the direction of gaseous flow from said axial openings towards said conduit whereby providing for increase in the pressure energy of gaseous flow in this direction, and duct means connected to the axial openings of said lateral side walls and projecting outside said casing coaxially with same.

2,642,896
FLOW CONTROL DEVICE
Francis J. Cantalupo, Chicago, Edmond P. De Craene, Westchester, Edward G. Schmidt, Western Springs, Chester W. Yant, Maywood, and Raymond P. Setka, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Original application December 9, 1947, Serial No. 790,638, now Patent No. 2,548,516, dated April 10, 1951. Divided and this application April 7, 1949, Serial No. 86,036
4 Claims. (Cl. 138—45)



1. In a pressure actuated flow control device, the combination of a casing having a substantially cylindrical chamber, a movable rigid cup-shaped member arranged within said casing to provide a flow passage between said member and the walls of the chamber, a centrally guided resilient member telescopically received within the said rigid member, an orifice plate in said chamber positioned against said resilient member, the said rigid member having an annular flange and having stop means between the plate and flange to prevent complete closure of the orifice by the said movable member whereby the flow passage between said plate and said rigid member is established by the compression of the said guided resilient member in response to fluid pressure against the movable rigid member.

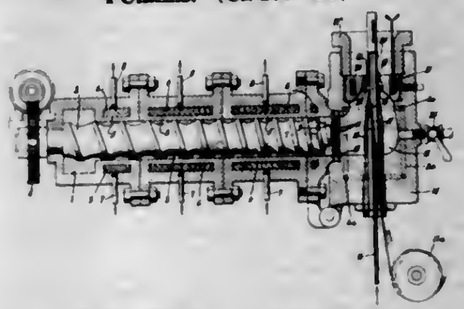
2,642,897
HEAT INTERCHANGE APPARATUS
Francis Robert Bell, Solihull, England, assignor to The Rover Company Limited, Solihull, England
Application June 20, 1949, Serial No. 100,161
In Great Britain May 13, 1948
1 Claim. (Cl. 138—38)

A heat interchange tube having at least one of its sides transversely corrugated over the whole of its length and having a core comprising a pair of similar hollow tapered parts which lie in contact with the corrugations in said tube, and which at opposite ends respectively form a fluid inlet at one end of said tube and a fluid outlet at the other end of said tube, said hollow parts having a pair of closed and inclined longitudinal edges in closely adjacent relationship, and having opposite longitudinal edges open to the



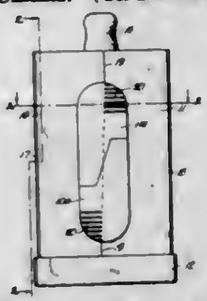
interior of said tube and in communication with opposite ends of the passages formed by said corrugations, so that fluid entering said inlet and flowing through the open edge of the corresponding hollow part is caused to flow in parallel streams through said passages before passing into the other hollow part through the open edge thereof, and thence to said outlet.

2,642,898
CONTROL CASING AND MANUFACTURE THEREOF
George Woodfield Acock, Hobart Garret Suppers, and Harris Watson Voorhees, Morrisville, Pa., assignors to John A. Roebling's Sons Company, Trenton, N. J., a corporation of New Jersey
Application September 30, 1948, Serial No. 51,906
4 Claims. (Cl. 138—56)



1. A control casing consisting of a hollow, flexible, extensible, longitudinal member, a separator layer of thin sheet material covering the outer surface of said member in slidable engagement therewith, and an outer layer consisting of a continuous envelope of extruded plastic material formed directly over said separator layer.

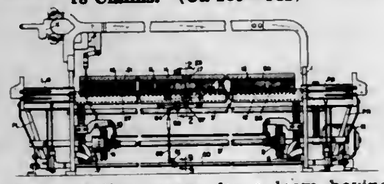
2,642,899
SECTIONAL CONDUIT
Cora P. Simmons and Aldred J. Simmons, Kansas City, Mo.; said Cora P. Simmons assignor to Aldred J. Simmons
Application March 10, 1947, Serial No. 733,514
8 Claims. (Cl. 138—75)



3. A device of the character described comprising an elongated tube divided longitudinally

into two halves each U-shaped in transverse cross section, at least part of the dividing line between said halves being on a slant with respect to the axis of the tube whereby a longitudinal movement of one half in a predetermined direction with respect to the other half displaces said half laterally with respect to said other half, and interengaging stop members on the respective halves limiting longitudinal movement of said one half in the opposite direction with respect to said other half.

2,642,900
MOVABLE REED FOR ELECTRIC PROTECTION
William A. Blanchard, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 10, 1950, Serial No. 155,043
18 Claims. (Cl. 139—341)



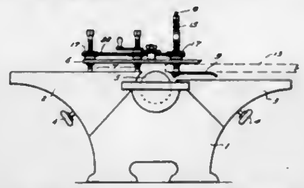
2. In protection means for a loom having a shuttle which when running properly traverses a path across the lay and passes a given point along the lay at a given time in the loom cycle, the lay having a shuttle box at each end thereof, a reed on the lay between the shuttle boxes to guide the shuttle establishing a reed line defining the rear of said path, a shuttle detector between the shuttle boxes mounted on the lay for motion relative thereto and normally extending forwardly of the reed line into the path of the shuttle to be moved rearwardly by the latter when in flight between said shuttle boxes, a normally open electric switch closed by the detector when the latter is moved by the shuttle, electric circuit means including an electromagnetic device and said switch, and loom stopping means controlled by said electromagnetic device effective to stop the loom upon failure of the shuttle to move said detector at said given time in the loom cycle.

2,642,901
CLIPPER AND MOWER ATTACHMENT FOR CHAIN SAWS
Ernest A. Hayden, Callahan, Calif.
Application October 6, 1950, Serial No. 188,831
2 Claims. (Cl. 143—32)



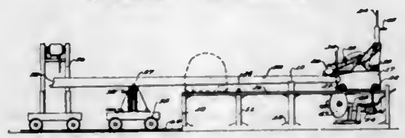
1. As a new article of manufacture a stop adapted to be detachably mounted on the saw blade of a conventional timber saw having saw teeth mounted on the blade to move in a closed path around the perimeter thereof, said stop comprising an elongated body of substantially square cross section, said body having an elongated longitudinally extending saw blade and tooth receiving slot extending therethrough, the portions of the body between opposite ends thereof and opposite ends of the slot being oppositely inclined as they recede from the slot, and the sides of the inclined portions of the body lying along intersecting arcuate paths which converge as they recede from the body to form brush parting points at opposite ends of the body.

2,642,902
PLANING ATTACHMENT FOR JOINTERS
Eric Lee Carey, Ottawa, Ontario, Canada
Application May 4, 1951, Serial No. 224,577
5 Claims. (Cl. 144—117)



1. A planing attachment for a jointer having a pair of bed sections and a cutting head comprising a bed plate, a plurality of supporting posts for the bed plate, the lower ends of said posts being arranged to be anchored in one of said bed sections, said posts being adapted to support the bed plate in spaced parallel relation to said bed sections with one end portion of the bed plate in overlying relation to the cutting head and other bed section, a pressure plate, rods suspending said pressure plate from said end portion of the bed plate, springs carried by the rods and urging the pressure plate towards the bed plate, rigid spacing means between said plates to normally hold said pressure plate in a position in spaced, parallel, underlying relation to the bed plate and arranged to overlie said other bed section, said rods being slidably mounted in the bed plate to permit movement of the pressure plate out of said position away from the bed plate, and means for simultaneously adjusting said position of the pressure plate and the position of the bed plate with respect to the posts.

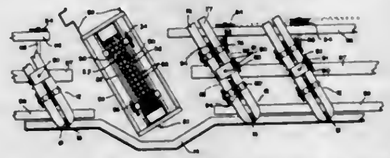
2,642,903
POLE GAINING MACHINE
Robert L. Efurd, Jr., and Euland A. Efurd, Shreveport, La.
Application January 14, 1948, Serial No. 2,255
2 Claims. (Cl. 144—133)



1. In a pole machine including a longitudinal framework, a pair of spaced rails extending from one end of said framework at a position adjacent to the bottom of said framework and a second pair of spaced rails positioned longitudinally on the top side of said framework and parallel to said first mentioned set of rails, the combination of a wheeled buggy mounted on said first mentioned rails, said buggy being adapted to support a pole or the like in transit over said framework, a pair of oppositely inclined rollers mounted on said framework adapted to embrace and support an end portion of a pole or the like positioned on said buggy, a wheel truck mounted on said second mentioned pair of rails adapted for movement on the same,

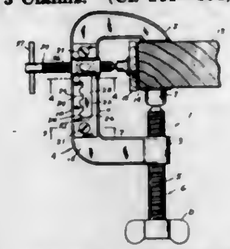
a beam bar pivotally mounted at a medial portion of its length on a transverse axle rigidly joined into said truck, a cutter means mounted on the forward end of said beam bar, manual means for engaging said cutter means with a pole or the like supported by said buggy and said oppositely inclined rollers, and an adjustable weight means mounted on the rear end of said beam bar, said weight means being adapted to be moved longitudinally of said beam bar to balance said beam bar or overbalance the same about its axis of rotation.

2,642,904
LOG DEBARKER AND CHIPPER
John H. Pearce, Seattle, Wash.
Application February 6, 1951, Serial No. 209,595
6 Claims. (Cl. 144—208)



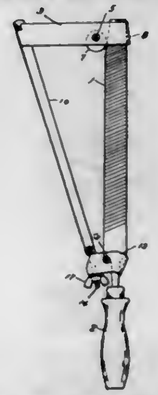
5. In a log debarker and chipper, a cutting mechanism comprising: a bank of flexible endless conveyors, said conveyors being positioned side by side and each following a path lying in an upright plane; a multiplicity of cutters secured to each of said conveyors and having cutting edges that lead the cutters as they travel with said conveyors; power means for driving said conveyors; and a first group of said conveyors being connected to said power means for travel in one direction and a second group of said conveyors being connected to said power means for travel in an opposite direction, said conveyors in said first and second groups being alternately disposed.

2,642,905
WORK HOLDING CLAMP WITH AN ANGULARLY ADJUSTABLE PRESSURE ELEMENT
Thomas Hewat, San Francisco, Calif.
Application May 31, 1949, Serial No. 96,352
3 Claims. (Cl. 144—304)



3. A work holding clamp comprising: a clamping member having a pair of opposed jaws adapted to oppositely engage an article positioned in the space between said jaws, an elongated frame connecting said jaws, a clamping screw, a support threadedly supporting said screw and a pivot rigid with said support, said frame including a portion provided with a slot extending longitudinally of said frame for receiving said pivot to permit movement of the latter to various points as desired along the length of said frame and a plurality of recesses communicating with said slot for receiving said pivot therein, said recesses opening outwardly toward said space whereby said screw may be positioned in engagement with an article between said jaws with said pivot received in one of said recesses, the cross-sectional shape of said pivot being elongated in a direction parallel to said screw and having an extent in said direction greater than the width of said slot to prevent movement of said support longitudinally of said slot when said screw is directed toward said space.

2,642,906
HACKSAW ASSEMBLY
Howard Henderson Faubion, Tampa, Fla.
Application October 27, 1950, Serial No. 192,541
2 Claims. (Cl. 145—33)



1. A hacksaw assembly for mounting a hacksaw blade in operative position on a rigid supporting member, comprising two rigid straps, each strap formed with two substantially parallel portions spaced sufficiently to receive an end of the supporting member, means on each strap at one side of an edge of the supporting member to clamp the straps to the supporting member, a pivot mounted between the parallel portions of one of the straps, and a washer mounted eccentrically upon the pivot and adjustable angularly to engage the edge of the supporting member in a position to resist angular movement of the strap thereon.

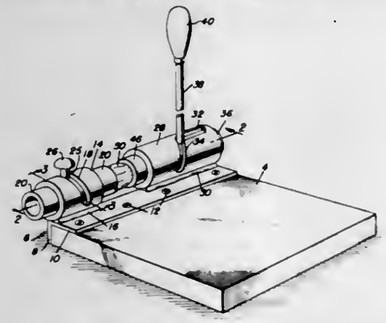
2,642,907
RETRACTABLE TOOL HANDLE
Arthur F. Alexander, Cleveland, Ohio
Application February 24, 1950, Serial No. 146,033
2 Claims. (Cl. 145—64)



1. In a tool of the character described, a handle having an endwise passage therethrough of non-circular cross-section, a tool bar of similar cross-section slidable within said passage, each end of said bar having a pair of opposed notches therein spaced from the extremity of the bar a distance less than half the length of the handle, a latch plate normal to said bar mounted in the middle of the handle for movement transversely thereof, said plate having a slot therein with a

wide portion adapted to clear the bar and a narrow portion adapted to enter the opposed notches for preventing longitudinal movement of the bar, a button attached to said plate, said handle having a recess therein adapted to receive said button and a pair of concavities merging with said recess into which an operator's thumb and finger may be projected for engagement with the button, and spring means tending to hold said plate with the narrow portion of the slot in engagement with said notches and to hold said button in said recess.

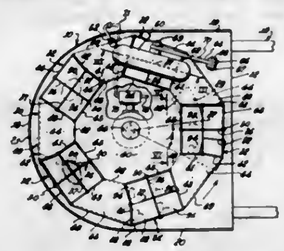
2,642,908
PECAN CRACKER
David C. Landgraf, Simpson, Okla.
Application June 25, 1951, Serial No. 233,283
2 Claims. (Cl. 146—16)



1. A nut holding and cracking device of the class described comprising a portable base, an anvil jaw adjustably mounted on said base, an outer sleeve fixedly mounted on said base and disposed in axial alignment with said anvil jaw, said sleeve being open ended and provided with an L-shaped bayonet slot, a block mounted for rotation and reciprocation in the outer end portion of said sleeve, a lever rigidly attached to and projecting laterally from said block and selectively operable in the branches of said bayonet slot, an inner sleeve mounted in the inner end portion of said outer sleeve, said inner sleeve being provided at one end with a nut holding seat and being provided at the opposite end with a screw threaded adjusting nut, and a screw threaded stud carried axially by one end of said block and screwed into said adjusting nut, one branch of said slot being substantially straight and formed in the top of said outer sleeve extending longitudinally in general parallelism in respect to the lengthwise axis of said sleeve, the other branch of said slot being formed in one vertical side of said sleeve and being conformably and helically related to the predetermined helical pitches and direction of operation of the cooperating screw threads in said nut and on said stud to permit movement of the seat toward said anvil jaw.

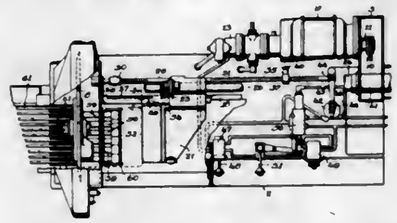
2,642,909
POTATO PLANTER
James Edgar Osborne, Tulelake, Calif.
Application July 3, 1950, Serial No. 171,887
5 Claims. (Cl. 146—57)

1. An apparatus for cutting and planting potatoes comprising: a centrally apertured base plate having two arcuately spaced seed potato ports formed therein, the inner edge of one port and the outer edge of the other port lying at substantially a common radius from the center of said base; a shaft extending through the central aperture of said base plate and journalled therein; a cutting table fixed to said shaft and rotatable therewith in a plane parallel to that of said base plate, said cutting table carrying a plurality of circumferentially disposed cutting boxes, each cutting box including a pair of mutually perpendicular knives forming four seed po-



tato compartments, one of said knives being substantially tangential to a circle having said common radius; power means for rotating said shaft and wheel; pressure means carried by said base plate arranged to force a potato downwardly against said knives and past the cutting edges thereof; and a chute carried by said base plate and extending downwardly from the ports formed therein.

2,642,910
CARRIAGE CONTROL DEVICE FOR BACON SLICING MACHINES
Orlando Garapolo, Chicago, Ill., assignor to Wilson & Co., Inc., a corporation of Delaware
Application March 18, 1952, Serial No. 277,175
11 Claims. (Cl. 146—95)



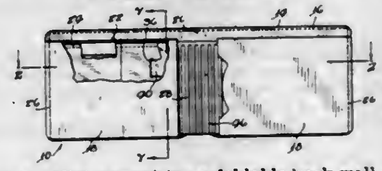
10. In a meat slicing machine, a rod, a pair of stop collars on said rod, a spring pressed pawl mounted in one of said stop collars to hold it in position relative to said rod, said pawl being operable to adjust the position of said one stop collar longitudinally relative to said rod, a reciprocable carriage mounted on said machine and engageable with said stop collars, means for reciprocating said carriage within limits determined by the longitudinal distance between said stop collars, a plurality of gripping prongs mounted on a shaft journaled in said carriage, an arm fixed to said shaft and projecting therefrom, and a plate mounted on said machine, said arm being engaged and moved by said plate during the movement of said carriage in one direction to move said gripping prongs downwardly, said plate being adjustable longitudinally of said machine to predetermine the longitudinal position of the carriage at which said gripping prongs are moved downwardly.

2,642,911
CLOSURE FOR CONTAINERS
James Clifton De Shazer, Jr., Portland, Oreg.
Application June 20, 1949, Serial No. 100,160
2 Claims. (Cl. 150—0.5)



1. A container of elastic plastic material having a counterbored end, said counterbored end having an internal ring groove, a disk occupying said counterbored end having an external peripheral ring groove registering with said internal groove, and a metallic ring occupying both of said grooves.

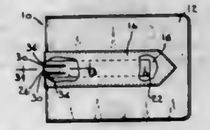
2,642,912
BILLFOLD WALLET
Benjamin S. Berger, South Orange, N. J., assignor to Philip Florin, Incorporated, Newark, N. J., a corporation of New York
Application December 8, 1950, Serial No. 199,853
1 Claim. (Cl. 150—38)



In a wallet comprising a foldable back wall and front flaps connected to the lower edge thereof, said flaps being spaced from each other and folded back over the front surface of the back wall: a stay disposed between said back wall and said flaps, said stay comprising a central panel having two ends, said stay also including two anchor panels, each anchor panel having an end near to the central panel and an end remote therefrom, each anchor panel being fixed relative to the back wall only at its end remote from the central panel, and means slidably attaching one end of said central panel to the near end of one anchor panel and the other end of the central panel to the near end of the other anchor panel for movement of said central panel perpendicular to the fold in the back wall, said last-named means comprising a section on each anchor panel and a tongue on each end of the central panel, each said tongue comprising a shank and a cross bar, the shank being integral at one end with the central panel and integral at the other end with the cross bar, each section being integral with the near end of its associated anchor panel and being disposed adjacent a front flap, each section having a slot therein, each slot being greater in length than the width of the associated shank and shorter than the width of the associated cross bar, whereby each tongue fits in its associated slot and permits sliding of the central panel throughout the length of the shank, said cross bars serving to prevent the tongues from slipping out of the slots.

2,642,913
CASE
John P. Reis, Sturgeon Bay, Wis., assignor to Amity Leather Products Co., West Bend, Wis., a corporation of Wisconsin
Application January 2, 1951, Serial No. 203,843
1 Claim. (Cl. 150—38)

In a case, a piece of flexible material folded about a transverse center line to form a pair of covers swingable toward and away from each other, a pocket carried by each cover and having an opening to the interior of said case adjacent said center line, said pockets extending from said transverse center line outwardly toward the ends of said covers, a snap action hinge for said case having leaves, one of each of said leaves being fitted in one of each of said pockets and projecting outwardly through said opening, the inner ends of said leaves having axially alined barrels, a pintle mounted in said barrels to pivotally interconnect said leaves, a spring carried by one



of said leaves, a cam carried by the other of said leaves, said cam being engageable with said spring in the closed position of said covers to urge said leaves toward each other, said cam upon opening of said covers passing through a dead center relationship with said spring and thereupon engageable with said spring to urge said leaves apart, said pintle having portions extending outwardly beyond said barrels almost to the sides of said covers to form pivotal supports for an envelope, and an envelope swingedly mounted between said covers on said pivotal supports.

2,642,914
TIRE
Andrew J. Palko and Walter E. Shively, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application September 28, 1951, Serial No. 248,822
7 Claims. (Cl. 152—209)



1. A tire having a tread portion comprising a multiplicity of individual elongated lugs having substantially identically shaped tread surfaces of quadrilateral shape and having a length substantially at least twice the width thereof, and being spaced from each other circumferentially and transversely of the tread, the arrangement of the lugs transversely of the tread being in a substantially herring-bone pattern with three circumferential grooves spacing the lugs into four circumferentially extending ribs, each of which embodies a multiplicity of substantially parallel lugs in inclined relation to an adjacent groove, corresponding opposed ends of certain pairs of lugs in adjacent ribs on opposite sides of the groove on the great circle of the tire being offset in more closely spaced relation to each other than similar opposed ends of other pairs of lugs adjacent to the said first pairs,

and the opposed ends of certain pairs of lugs in adjacent ribs on opposite sides of the other grooves being offset transversely similarly to the opposed ends of the pairs of lugs on opposite sides of the groove on the great circle of the tire, each of the lugs being of substantial height and appreciably spaced from each other a distance sufficient to permit normal flexing of the lugs under the driving and braking stresses without normally contacting but less than the width of the lugs.

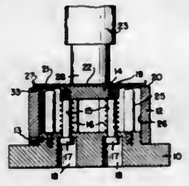
2,642,915
MOTOR VEHICLE WHEEL TRACTION CHAIN
Ernest E. Jellison, Twin Falls, Idaho
Application May 3, 1950, Serial No. 159,824
1 Claim. (Cl. 152—237)



In a motor vehicle wheel traction chain, the combination which comprises a pair of chains positioned in parallel relation, a pair of bars connecting the ends of the chains and positioned perpendicularly to the chains, said bars each having an opening therethrough and said openings positioned midway between the connections of the chains to the bars, an arcuate band having a pad of resilient material on the inner surface positioned to extend around the felly of a wheel with said chains extended over a tire on the wheel, said band having a plurality of spaced openings in the ends and said openings positioned to register with the openings in the bars positioned midway between the chains, the openings in one end of the band being staggered providing means for adjusting the length of the band to compensate for tires and wheels of different sizes and the openings in the opposite end of the band being threaded, a screw extended through the opening positioned midway between the chains of one bar and threaded into one of the threaded openings of the band, a pin extended through the opening positioned between the chains of the other bar and extended through one of the staggered openings of the band, and a cotter pin carried by a chain anchored to the bar in which the pin is positioned and having a leg extended through said pin for detachably retaining the parts in assembled relation.

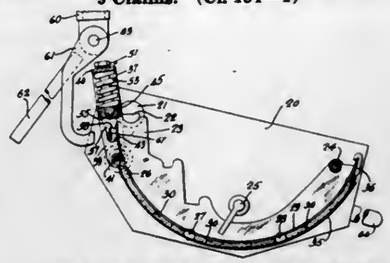
2,642,916
FORMING DIE
James A. Exline, Jr., Miamisburg, Ohio
Application December 23, 1949, Serial No. 134,652
2 Claims. (Cl. 153—76)

1. In a forming die, a base, a die cushion, resiliently acting means between said base and said cushion supporting said cushion on said base and for resisting movement thereof relative to said base, a plurality of stationary rod-like members positioned circumferentially about said cushion in radially spaced relationship thereto each extending vertically and having a limited work contact surface thereon, at the



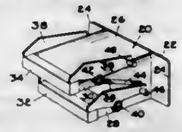
upper end and wall means carried on said base positioned circumferentially about said cushion at a distance radially greater than said stationary members and having an upwardly facing work contact surface thereon disposed at substantially the level of the work contact surfaces on said stationary members.

2,642,917
PRESSURE BAND FOR BRAKE LININGS
Edward J. Vosler, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 5, 1950, Serial No. 199,262
9 Claims. (Cl. 154—1)



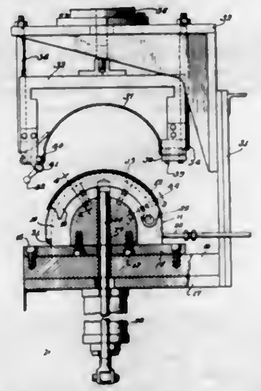
1. Apparatus adapted to attach a fixture to a brake shoe for holding brake lining clamped upon the shoe for attachment processing, comprising in combination, a pivotally movable base providing means for removably holding the shoe and the lining against the shoe; clamping means, one end of which is removably attachable to one end of the shoe and shaped to engage and press the lining upon the shoe; tensioning means hingedly secured to the other end of the clamping means, a member slidably carried by said tensioning means, said member being provided with notches; springs interposed between said member and the tensioning means; a hook carried by a power actuated element, said hook being movable into engagement with the notched member and operative by the power means to actuate said member relatively to the tensioning means for compressing the springs and moving said member so that its notches are beyond the end of the brake shoe adjacent thereto; means for moving the base to align the said adjacent end of the brake shoe with said notches in said member whereby release of the power actuated element will effect expansion of the springs thereby urging the notched member to engage the adjacent end of the brake shoe and cause said tensioning means to pull the clamping means into tight engagement with the brake lining, the shoe, with the lining so clamped thereupon, being removable from the base.

2,642,918
JIG
Edward Janowski, Pawtucket, R. I.
Original application November 2, 1948, Serial No. 57,912. Divided and this application February 23, 1950, Serial No. 145,697
8 Claims. (Cl. 154—1)



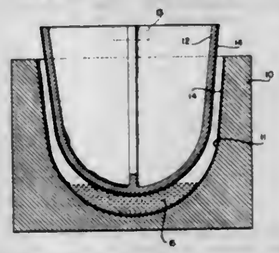
1. A jig adapted to hold a plurality of strips of thermoplastic material intermediate their ends in position for welding the ends thereof to two spaced strips of thermoplastic material comprising in combination a base plate, an insulating block projecting from one face of said base plate, fixed spaced arms projecting from said block, a conducting cross bar mounted on each arm, each of said cross bars being shorter than said first mentioned strips, a plurality of clamping fingers, means pivoting said fingers intermediate their ends to said arms for pivotal movement towards and away from said bars, means normally urging one end of each of said fingers towards said bars, and means carried by the other end of said fingers for pivoting said fingers away from said bars, whereby said fingers can be pivoted in one direction to permit one of said first mentioned strips to be located on each of said bars whereupon release of said last mentioned means permits said fingers to hold them thereon.

2,642,919
BONDING DEVICE AND METHOD
George F. Kingman, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
Application March 20, 1952, Serial No. 277,694
7 Claims. (Cl. 154—1)



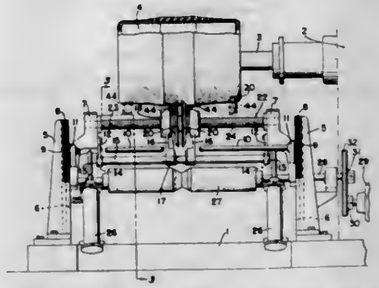
1. A device for bonding a friction material composition lining to an arcuate ferrous metal automotive brake shoe by means of an interposed layer of heat hardenable organic adhesive, comprising a support for said brake shoe of nonconducting material and formed with a convex surface for seating the rim of said brake shoe and substantially conforming to the arc thereof, an arcuately shaped induction heating work coil disposed within slots formed in said support and closely adjacent to the convex face thereof and adapted to induce heat in said metallic shoe, and means for retaining the brake lining on the outer face of the rim of the brake shoe under pressure during the heating operation.

2,642,920
HOUSING FOR ELECTRICAL APPARATUS
Eli Simon, Los Angeles, Frank W. Thomas, Burbank, and Edward H. Burkart, North Hollywood, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.
Application October 4, 1950, Serial No. 188,384
12 Claims. (Cl. 154—2.6)



1. An article of manufacture comprising spaced skin laminations of fibrous materials, laminating plastic impregnated in said materials, and a core layer of cellular plastic material cast between said skin laminations, there being interfacial zones at the planes of joinder of the core layer and skin laminations containing said laminating plastic, said plastic material of the core layer, and a copolymer of the same.

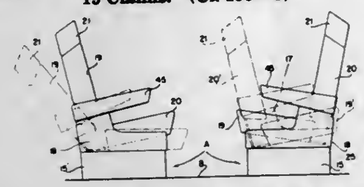
2,642,921
APPARATUS FOR STITCHING TIRES
Paul E. Appleby, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application November 13, 1950, Serial No. 195,325
8 Claims. (Cl. 154—9)



5. The combination with a rotatable tire drum of stitching mechanism adapted to stitch tire carcass material together while on said drum, comprising a support mounted for bodily translation substantially parallel to the axis of rotation of said drum, a smooth-faced stitcher wheel mounted on said support, a tacking wheel also mounted on said support and having a working surface provided with peripherally spaced projections, said tacking wheel being spaced peripherally of said drum a substantial amount from

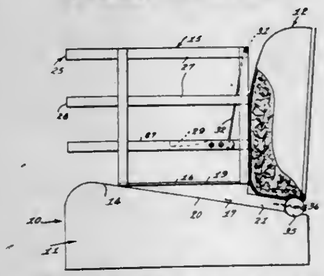
said stitcher wheel in a position to engage the material on said drum at a point appreciably in advance of said stitcher wheel peripherally of the drum as the drum rotates to thereby tack the material together at spaced points in advance of the stitching by the stitching wheel, and means for imparting a movement of translation to the stitcher and tacking wheels laterally across the peripheral surface of said drum.

2,642,922
REVERSIBLE AND BERTHABLE SEAT
Benjamin F. Monroe, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application November 25, 1946, Serial No. 712,119
15 Claims. (Cl. 155—6)



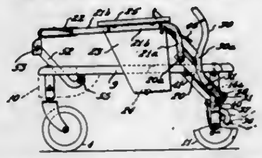
1. A convertible and reclining chair comprising a base structure having guide-ways therein, cushions interchangeable between the seat and back positions on said base structure, frame members supporting said cushions and hingedly connected together between said cushions, means carried by the hinged connection between said frame members adapted to movably secure said connection to said guideways, arm rests carried by said base structure means carried by said arm rests engaging said frame members whereby to support said seat and back cushions at the desired angles to each other, means for adjusting the supporting means whereby to change the angle of the chair back, means releasably attaching said arm rests to said base structure so arranged that the arm rests are interchangeable and reversible whereby the chair can be set to face in either direction with either cushion forming the seat and the other cushion forming the back according to which way the chair faces.

2,642,923
SAFETY CAR SEAT
Albert I. Roeder, Celina, Ohio
Application February 11, 1949, Serial No. 75,761
3 Claims. (Cl. 155—11)



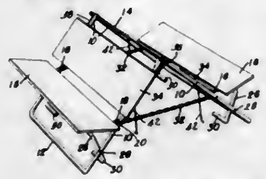
2. An auxiliary seat for attachment to the seat of an automobile having a seat and a back cushion comprising a base plate, a seat, guard rails about said seat, guard rail supports secured to and carried by said base plate, means securing said seat to said guard rail supports in substantial spaced parallelism with and spaced from said base plate, a pair of downwardly inclined rearwardly extending base plate supporting members fixed on said base plate, and an elongated anchor member fixed on the rear ends of said supporting members engageable between the lower end of said back cushion and said seat cushion.

2,642,924
COLLAPSIBLE VEHICLE FOR CHILDREN
Donald W. Gill, Cincinnati, Ohio, assignor to The Frank F. Taylor Company, Norwood, Ohio, a corporation of Ohio
Application January 13, 1950, Serial No. 138,475
5 Claims. (Cl. 155—22)



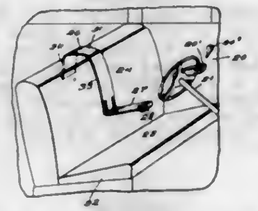
1. A child's vehicle of the baby walker, stroller type having front and rear rolling supports, a seat board for a child to straddle supported in spaced position above said rolling supports, a demountable foot supporting panel mounted in position below said seat board, an adjustable back rest pivoted on said seat board, a relatively stiff side panel assembly and means for mounting said relatively stiff side panel assembly independent of said back rest for cooperating with said seat board in such position as to be movable down into the space between said seat board and said foot supporting panel, a hinged push handle assembly and a latching member for maintaining the push handle assembly in operative position, a linkage mechanism supporting said side panel assembly with which said push handle assembly is operatively connected, and a foot treadle for disengaging said latching member.

2,642,925
FOLDING TABLE AND BENCH
Paul M. Seymour, Marlboro, Mass.
Application September 18, 1950, Serial No. 185,361
5 Claims. (Cl. 155—43)



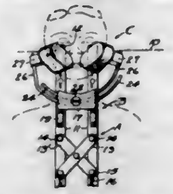
1. A convertible portable folding structure selectively usable as a table on the one hand and as a bench on the other hand comprising an elongated assembling and hinging rod, a pair of substantially duplicate complemental panels, said panels being adapted to serve in the capacity of table top components or, alternatively, as backrests, arms attached to the undersides of the respective transverse end portions of said panels, said arms having extending end portions formed with elongated loops, said loops being hingedly and slidably connected with said rod, a pair of substantially duplicate opposed U-shaped leg frames, each leg frame embodying limbs hingedly connected to respective end portions of said rod and bight portions which are adapted to rest on the ground or other supporting surface, means for maintaining said panels in table forming position, said means comprising stay members pivotally connected to the respective end portions of said panels, said stay members being releasably engageable with coacting portions of the corresponding limbs of said U-shaped leg frames, a pair of opposed seat members, and means operatively connecting said seat members with intermediate portions of said limbs.

2,642,926
ARMREST FOR AUTOMOBILES
Sylvan Diamond, Detroit, Mich.
Application March 18, 1950, Serial No. 150,517
2 Claims. (Cl. 155—112)



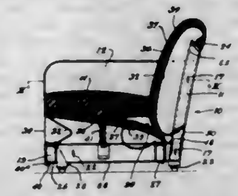
1. In an arm rest for automobiles, a single unitary strip of material having a straight portion at one end, a slightly convexly curved portion extending generally transversely from the straight portion, a reverse bent slightly convexly curved portion extending generally transversely to the slightly curved portion first mentioned and generally in the same direction as the straight portion first mentioned, and a rest portion extending generally transversely to the reverse bent portion and having a length of at least 8'', there being ribs extending across the junction between the rest portion and the reverse bent portion.

2,642,927
HEADREST FOR AUTOMOBILES
Rachel L. Rising, Los Angeles, Calif.
Application May 6, 1952, Serial No. 286,260
6 Claims. (Cl. 155—174)



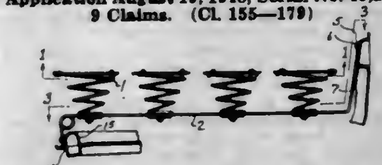
1. In a head rest for automobiles, a supporting unit including hook means to embrace and rest upon the upper portion of a seat back; a pair of clamp jaws carried by said hook means and having therein registering pairs of arcuate grooves arranged in adjacent, concentric relation with the outer portions of the grooves inclined upwardly; a pair of arcuate arms slidably received in said grooves and having upwardly extending outer end portions; clamp screw means for tightening said clamping jaws against said arms for securing them in any adjusted position; and head rest cushions carried by said arms.

2,642,928
UPHOLSTERED SPRING CONSTRUCTION FOR FURNITURE
Ralph C. Bateman and Benjamin J. Schnitzer, Akron, Ohio, assignors to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware
Application May 18, 1946, Serial No. 670,738
4 Claims. (Cl. 155—179)



3. In a seat construction, a frame having a front and a rear member; and a plurality of zigzag spring elements secured to and extending in a bowed manner between said members in parallel relation, one end of each of said spring elements being secured to said front member, an intermediate portion of each of said springs being secured to said rear member, and the remaining end of each of said springs being bent back between said members and being secured to an intermediate section of the bowed spring, said last named spring ends connecting substantially perpendicularly to the main load carrying section of said springs to reinforce same resiliently.

2,642,929
SEAT SPRING
Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan
Application August 19, 1948, Serial No. 45,175
9 Claims. (Cl. 155—179)



6. A double deck spring cushion made up of two sections, one section overlying the other section, the upper section having in combination an upper border frame and a plurality of longitudinal and cross rows of load-carrying short helical conical springs of length corresponding to the depth of the upper section and of substantially reduced length as compared to the depth of the cushion, the conical springs gradually reduced in flexibility from the larger to the smaller diameter end by reason of the reduction of the size of the turns, said load-carrying springs having their upper and lower ends substantially spaced from one another but the upper ends yieldably tied together and the upper turns of the outer springs of the longitudinal and cross rows secured to the border frame to form an upper deck yieldable by the partial compression and tipping of the upper portions of the load-carrying springs in support of and in conformation to the portion of the body in contact with the cushion, the lower section having a plurality of spring wire stringers extending crosswise of the cushion under each cross row of load-carrying springs, and each stringer having

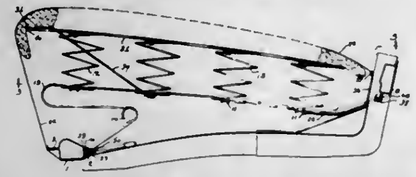
at least at one end a hinge in the form of a spring wire leg free of any connection or contact except a bent over end for resting in a socket in a frame when the spring cushion is assembled, and longitudinal wires running at right angles to the stringers, one with each longitudinal row of load-carrying springs and intersecting the stringer wires at the narrow end of each load-carrying spring, the said turns of the narrower ends of the springs interlaced with the intersecting wires to firmly anchor and lock the load-carrying springs to the intersecting wires coaxially with the intersections and also to lock the intersecting wires together to form the lower deck, the said longitudinal wires having ends that are free from connection with the said frame when assembled to thereby form a floating deck, the said stringers having extensions including the said wire legs for holding the floating deck in spaced but yieldable relation with respect to the frame when the parts are assembled in the frame.

2,642,930

SEAT BOTTOM SPRING

Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan

Application November 1, 1949, Serial No. 124,791
3 Claims. (Cl. 155—179)



1. A seat spring having a front base wire with turned back ends, a rear channel member slotted to provide rests, intermediate spring wire stringers with hanger portions at the rear received in the rests, two end stringers which have rear hanger portions with turned over ends, all the said stringers at the front ends having jack spring portions with turned over ends clipped to the front base wire, transverse stringers intersecting the end and intermediate spring stringers, short coiled load-supporting springs having their lower ends interlaced with the intersecting wire stringers with the under intersecting wire over the wire of the bottom turn of the load-supporting spring and the over intersecting wire under the wire of said turn, an upper border frame secured to some of the top coils of the load-supporting springs.

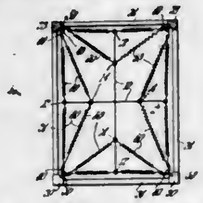
2,642,931

CUSHION SUPPORT ASSEMBLY

Adelard J. Belisle, South Hadley, Mass., assignor to The Berkline Corporation, Chicopee Falls, Mass., a corporation of Tennessee

Application December 2, 1950, Serial No. 198,872
2 Claims. (Cl. 155—179)

1. A cushion support assembly comprising a rigid support frame, an outer cushion support in the form of a square of interconnected outer tension springs having outer ends fixed to the corners of said frame and inner ends connected to each other forming a square within said frame, an inner cushion support in the form of a pair of resilient tensile members criss crossing each other at right angles centrally of said outer cushion support and having opposite free extremities engageable with corresponding sides of the square



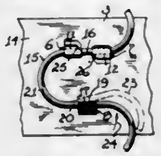
of outer tension springs at the point of junction of the connected inner ends of the outer tension springs.

2,642,932

RAIL MEMBER FOR REMOVABLY MOUNTING SINUOUSLY CORRUGATED WIRE SPRINGS

William H. Neely, Cleveland, William C. Sandor, Solon, and Charles E. Smith, Hudson, Ohio, assignors to The Universal Wire Spring Company, Bedford, Ohio, a corporation of Ohio

Application July 21, 1951, Serial No. 237,942
5 Claims. (Cl. 155—179)



1. In a rail member for mounting sinuously corrugated wire springs, a metal strip, two aligned, laterally spaced, hook-shaped elements on said strip, said elements including open hook ends and being arranged in inverted relation with respect to each other to extend their open hook ends in opposite directions, and a third hook-shaped element arranged parallel to said two elements in axially offset relation with respect to these hook-shaped elements for cooperation therewith in removably mounting a sinuously corrugated wire spring on said metal strip.

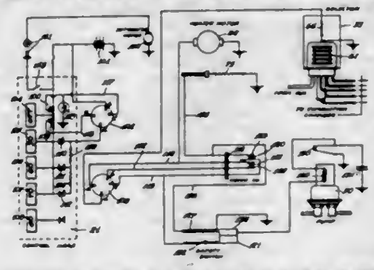
2,642,933

LIQUID FUEL BURNING HEATER AND OPERATING SYSTEM THEREFOR

Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Original application September 7, 1946, Serial No. 695,478, now Patent No. 2,588,349, dated March 11, 1952. Divided and this application February 26, 1949, Serial No. 78,609
4 Claims. (Cl. 158—28)

1. A liquid fuel burning heater system including in combination, a compact heat conducting burner structure having therein a pilot burner and at least one main burner, each of said burners including a burner port and a passageway communicating with said port, electrically operated means for supplying liquid fuel to said passageways, means for supplying combustion air to said passageways, electrical starting means for said pilot burner positioned in the passageway thereof for heating and vaporizing the liquid fuel supplied thereto and for igniting the conditioned fuel whereby a pilot flame is established at the burner port thereof, said burner structure including deflector means at said pilot burner port for deflecting the flame thereof against said structure for heating said passageways whereby vaporization of the fuel supplied therethrough is effected, and a control circuit connected to said electrically operated fuel supply means and said electrically operable start-



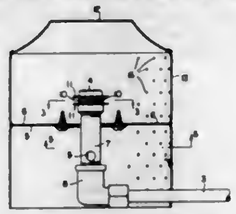
ing means including a main switch for energizing the same, temperature responsive means for selectively controlling the flow of fuel to said passageways, and thermal means responsive to the temperature of said burner structure for disabling said starting means when said burner structure reaches a predetermined temperature.

2,642,934

GAS FUELED WATERING TROUGH HEATER AND DRAFT SHIELD

Charles A. Gunther, Lisbon, and Charles R. Vittetoe, Mount Vernon, Iowa

Application November 29, 1948, Serial No. 62,464
3 Claims. (Cl. 158—99)



3. In a heater of the character described, a casing having a plurality of relatively small apertures therethrough closely spaced over a wide area to allow for the ingress and egress of air to the interior of said casing without the creation of undue drafts, a partition mounted in said casing intermediate the upper and lower ends thereof and dividing the casing into an upper burner chamber and a lower mixing chamber, a gas burner in said upper chamber adapted to receive secondary air through the apertures in the upper chamber to promote combustion, a supply pipe communicating with said burner, extending through said partition and through said side wall, said supply pipe having an aperture in the mixing chamber within said casing through which primary air is supplied to the burners from apertures in the lower chamber.

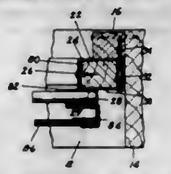
2,642,935

WINDOW FRAME ASSEMBLY

Joseph Sylvan, Berkley, Mich.

Application June 30, 1947, Serial No. 758,066
3 Claims. (Cl. 160—182)

1. A window frame assembly adapted to be received within the margin of a window opening comprising, in combination, a rectangular window frame structure including a rectangular wood frame made up of a pair of jamb portions, a header portion, and a sill portion, a sash guide member secured to each wood jamb portion and having a part defining a pair of parallel sash guide channels offset laterally of the wood jamb portion, a channel guide for a screen telescoped



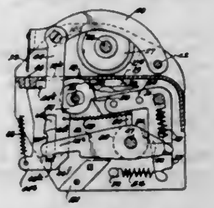
over the back of one sash guide channel and having one leg disposed between the two adjacent side walls of the two sash guide channels, said screen guide having a width greater than the width of the sash guide channel telescoped thereby and providing a third parallel channel disposed laterally beyond the two sash guide channels and providing a guide channel for a screen.

2,642,936

DISPENSER FOR EJECTING AND SEVERING GUMMED TAPE

Loren H. Semler, Chicago, Ill., assignor to Metal Specialties Manufacturing Co., Chicago, Ill., a corporation of Illinois

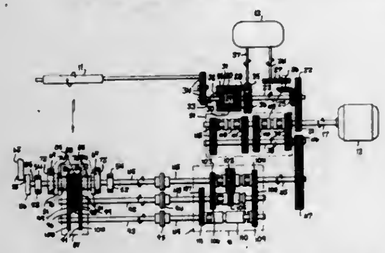
Application May 12, 1951, Serial No. 225,940
12 Claims. (Cl. 164—42)



1. In combination with a strip serving machine having a rockably mounted operating lever adapted to propel a strip along an established path upon movement of the handle in one direction to eject a portion of said strip and a movably mounted knife blade normally retracted from said path and adapted to sever the ejected portion of said strip when moved across said path, an improved operating mechanism for said knife blade comprising an operating link extending from said knife blade and connected thereto by means permitting said link to pivot with respect to said blade, a pivotally mounted actuating arm aligned with said link so as to move toward said blade along said link when rotated in one direction, said link and said arm being adapted to interlock when pressed into engagement at a point when said arm is moved closer to said blade than its normal position, said arm being spring biased to normally maintain said arm further away from said blade than said interlocking position, spring means for urging said ink against said arm when said arm is moved toward said blade from its normal position, means actuated by the ejecting movement of said handle to move said arm toward said blade until said arm interlocks with said link, means for latching said arm in said interlocked position, and means actuated by the return movement of said handle for trip-

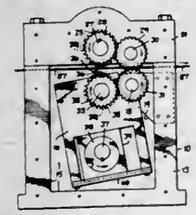
ping said latching means to free said arm to allow said arm through said link to move said knife blade across said path.

2,642,937
CUTTING DEVICE OF THE MISS-CUT TYPE
Karl W. Hallden, Thomaston, Conn.
Application August 7, 1948, Serial No. 43,149
6 Claims. (Cl. 164—49)



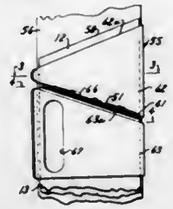
1. In a cutting device of the miss-cut type having two shear blades independently movable into and from shearing positions, respectively, in which they cooperate to cut stock between them, the combination of a first rotary eccentric connected with one blade for moving the same to and from its shearing position; a plurality of other complemental eccentrics independently rotatable in stroke-supplemental engagement with each other and drivingly connected with the other blade for moving the same into its shearing position only when the overall stroke of said other eccentrics is substantially at a maximum while the latter turn through a predetermined angular range; and a change-speed drive having an input shaft and independently variable speed output shafts of which said input shaft is drivingly connected with said first eccentric and said output shafts are drivingly connected with said other eccentrics, respectively, to achieve different numbers of miss-cuts by said blades between successive cutting actions thereof.

2,642,938
ROTARY MISS-CUT SHEARS
Karl W. Hallden, Thomaston, Conn.
Application July 30, 1949, Serial No. 107,713
1 Claim. (Cl. 164—68)



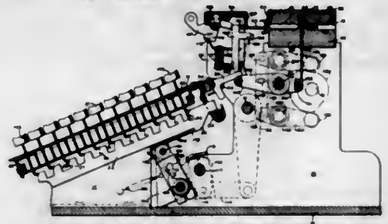
In a cutting device, the combination of a frame; two first shafts supported by said frame in spaced relation to each other; a carrier pivotally mounted on a certain one of said first shafts; two cutter shafts of which a certain one is journaled in said carrier and the other in said frame, said shafts being parallel to each other and arranged in two sets of which one set is formed by said certain shafts and the shafts of each set are equally spaced from each other, said cutter shafts being provided with peripheral shear blades, respectively, having shear edges equally radially spaced from the axes of their respective cutter shafts, and said carrier being rockable to and from said other cutter shaft into and from a cutting position in which the blades are in shearing relation if they are in shearing alignment; two permanently meshing identical first gears on said first shafts, respectively; two identical second gears mounted on said cutter shafts, respectively, and in permanent mesh with the adjacent first gears, respectively, said second gears being smaller in radius than the radial distances of said shear edges from the axes of the respective cutter shafts; a guideway on said carrier extending parallel to the plane in which the axes of the shafts of said one set lie; a slide block movable in said guideway; a drive shaft journaled in fixed bearings and carrying an eccentric rotatably received in said slide block, the axis of said drive shaft lying in the plane in which the rotary axes of said cutter shafts lie when said carrier is substantially in its cutting position; and a change speed drive having an input shaft and a variable speed output shaft of which said input shaft is drivingly connected with one of said gears to bring said blades into periodic shearing alignment with each other, and said output shaft is drivingly connected with said drive shaft to achieve different numbers of miss-cuts by said blades between successive cutting actions thereof.

2,642,939
PAPER TEARING MECHANISM
Kenneth F. Oldenburg, East Los Angeles, and Fred N. Schwend, Monterey Park, Calif., assignors to Clary Multiplier Corporation, San Gabriel, Calif., a corporation of California
Application June 12, 1950, Serial No. 167,598
9 Claims. (Cl. 164—84.5)



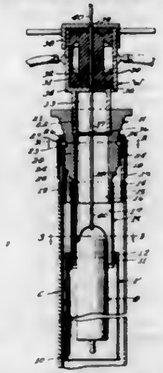
1. In a listing machine having facilities for feeding superimposed paper strips to a recording device, a paper severing device for severing the leading edges of said strips in different manners relative to each other comprising a member of sheet material bent upon itself to form opposed walls of a U-shaped guideway for said strips, said guideway being arranged along the path of movement of said strips, one of said walls having a laterally extending slot therein to form a pair of guide elements arranged serially along said guideway, the edges of said guide elements nearest one end of said guideway forming paper severing edges extending across said guideway, said edges extending at an angle relative to each other, the free ends of one of said guide elements being adapted to flex toward the other of said walls whereby to clamp said paper strips between said walls, and a slot through one of said guide elements extending longitudinally of said guideway and aligned with the path of movement of said paper strips through said guideway.

2,642,940
PERFORATING AND SLOTTING PUNCH
Karl J. Braun, Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application July 17, 1948, Serial No. 39,275
18 Claims. (Cl. 164—112)



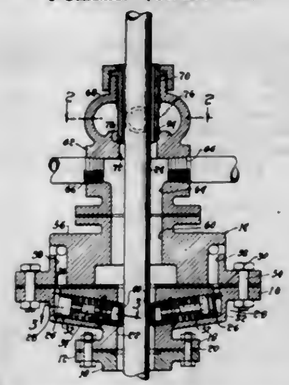
1. In a device of the class described, a single set of punches for perforating and for slotting file cards in separate stages, said punches being arranged for perforating a card adjacent an edge, means for displacing said card, and means for selectively rendering only certain of said punches effective, to thereby notch out the material between certain of said perforations and the card edge after the card has been displaced.

2,642,941
COMBINED CABLE WIPER AND SPLASH SHIELD
Lawrence B. Collins, Orange, and Clinton A. Langstaff, Compton, Calif.
Application July 19, 1948, Serial No. 39,548
1 Claim. (Cl. 166—14)



In a combined cable wiper and splash shield, including a well casing and a cable suspended bailer, a sleeve threaded into the top end of said casing, a head having a reduced intermediate portion removably engaged in said sleeve and having a longitudinal bore of a diameter slightly greater than that of said bailer, said head also having a counterbore in its upper end, a wiper head formed to provide an upper open top hollow portion and a lower hollow portion of a lesser diameter than that of the upper portion and disposed in threaded engagement with the said counterbore, the bottom of said lower portion constituting a bumper plate for said bailer, the first head having its lower end portion reduced to a lesser diameter than that of said intermediate portion, a sectional pipe having its upper end threaded onto the latter reduced portion and its lower end outwardly flared to prevent interference with the entry of the bailer when it is drawn upward of the casing, a packing housed within the upper portion of said wiper head, and a cover for the open end of the latter portion of the wiper head, the bottoms of the said upper and lower portions of the wiper head and said cover having aligned central apertures for the passage upwardly therethrough of the cable which also passes through the said packing in the said upper portion.

2,642,942
DRILLING EQUIPMENT AND WELL PIPE CLEANER
Charles B. Reynolds, Orange, Calif.
Application August 15, 1950, Serial No. 179,605
5 Claims. (Cl. 166—14)



1. In a cleaner for drilling equipment, pipe or the like, a head adapted to be mounted on a well casing; said head having an opening extending therethrough which aligns with the well casing and through which drilling equipment, pipe or the like passes as it is withdrawn from the well casing; hollow expansible wipers carried by said head for movement radially toward or away from drilling equipment, pipe or the like that is being moved through said head; fluid actuated pistons carried by said head and connected to the wipers, means for applying fluid pressure to said pistons for advancing said wipers toward drilling equipment, pipe or the like moving through said head and for directing fluid into said wipers to cause them to expand; resilient means carried by said head and engaging said fluid actuated pistons for retracting said wipers relative to drilling equipment, pipe and the like passing through said head; and means carried by said fluid actuated pistons and engaging said head for limiting the retraction of the wipers and holding said wipers against rotation relative to the head.

2,642,943
OIL RECOVERY PROCESS
Robert L. Smith, Western Springs, and Kenneth M. Watson, Madison, Wis., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla., a corporation of Maine
No Drawing. Application May 20, 1949, Serial No. 94,506
3 Claims. (Cl. 166—21)

1. The method of recovering gas and oil from oil-bearing formations penetrated by at least one input well and at least one adjacent output well which comprises establishing a zone of high temperature at about 700° to 2500° F. within the formation surrounding the input well by means of hot gas flow, moving the high temperature zone as a wave front by means of cold gas flow outwardly from the input well and through the formation in a relatively horizontal direction,

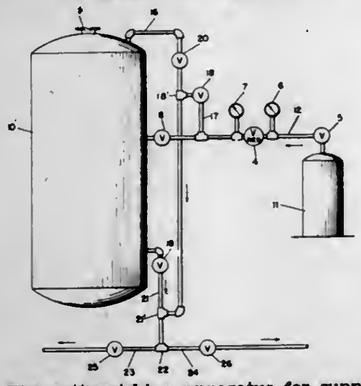
revivifying the high temperature wave front by establishing a combustion wave front by introduction of free oxygen in an average amount approximating 1.33 to 6.0% into the formation and controlling the rate of movement of the combustion wave front relative to the rate of movement of the high temperature wave front in a manner obtaining approximate coincidence between the combustion wave front and the high temperature wave front by regulating the mass velocity of free oxygen introduced to the formation during any period of operation and thus controlling the rate of combustion in the front by which its rate of movement is determined, while recovering gas and oil from the outlet well.

2,642,944

APPARATUS FOR CLEARING CONDUITS IN DRY CHEMICAL FIRE-EXTINGUISHING SYSTEMS

Alden Allen, Menominee, Mich., assignor to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

Application January 31, 1951, Serial No. 208,824
9 Claims. (Cl. 169—11)



1. Fire-extinguishing apparatus for supplying a fluidized stream of dry chemical which comprises a tank for storing dry chemical, a gas supply conduit to supply fluidizing and pressurizing gas to said tank, a gas control valve in said conduit to control the flow of gas to said tank, a fluidized dry chemical outlet conduit connected to said tank, an outlet valve in said outlet conduit to control the flow of fluidized dry chemical, a pressure relief conduit connecting the upper portion of said tank to said fluidized dry chemical outlet conduit, and a pressure relief valve in said relief conduit.

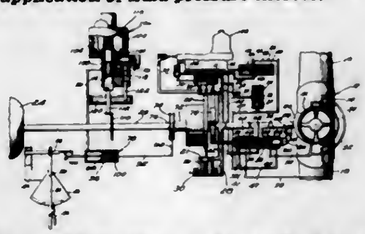
2,642,945

PROPELLER PITCH CHANGING MECHANISM

Erle Martin, West Hartford, Murray C. Beebe, Jr., South Glastonbury, and John E. Anderson, Portland, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application October 20, 1943, Serial No. 506,988
11 Claims. (Cl. 170—160.2)

1. In a hydraulic system including a motor, a pump for providing hydraulic fluid under pressure to operate said motor, and a fluid channel between said pump and said motor, a fluid accumulator connected with said channel for receiving fluid under pressure from said pump, a pressure relief valve connected with said channel and containing a plunger movable by fluid pressure in said channel when said pressure exceeds a predetermined value, a check valve in said channel on the pump side of said relief valve and said accumulator, a vent passage leading from said relief valve and a fluid channel leading from the outlet of said pump between said pump and said check valve to said relief valve at a location to be connected with said vent passage by movement of said relief valve plunger by the application of fluid pressure thereto.



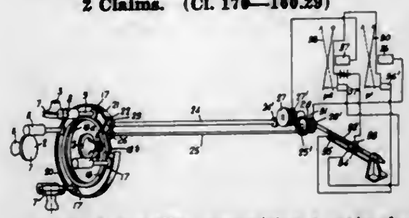
9. A propeller control mechanism for a hydraulically adjustable constant speed propeller of the character described which comprises a propeller shaft, a housing rotatable with the propeller shaft, and providing a reservoir for receiving a quantity of pressure actuating fluid, an accumulator carried by the shaft, pressure developing means within said housing and operable upon rotation of said propeller for establishing a supply of fluid under pressure, a regulator valve within the housing for selectively controlling the supply of pressure fluid in response to change in speed of rotation from a desired value, conduit means extending between the pressure developing means and the regulator valve, and a trippable flow control valve mounted on the outside of said housing and opening into said conduit means for passing pressure fluid from the pressure developing means to said accumulator, and including a trip mechanism for return flow of the pressure fluid from the storage chamber coincident with predetermined shift of the regulator valve, and nonrotating means located exterior of the housing and interconnecting with the regulator valve for modifying its control in response to change in propeller speed and selectively operable for actuating the said trip mechanism.

2,642,946

REVERSIBLE PROPELLER

George Wood, London, England, assignor to Vickers-Armstrongs Limited, London, England, a company of Great Britain

Application July 30, 1947, Serial No. 764,644
In Great Britain July 18, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires July 18, 1966
2 Claims. (Cl. 170—160.29)



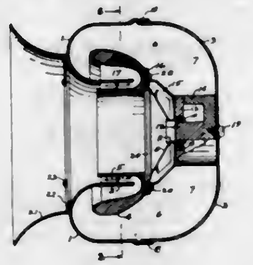
1. A ship's propeller, comprising a main shaft, a hub fixed on said shaft, a housing forming a water-tight seal between the front face of the hub and the stern of the ship, propeller blades seating against the hub, roots integral with said blades and journalled for rotation about their axes in the hub from a normal ahead setting to a normal astern setting of the pitch of the blades, a worm wheel on the inner end of each blade root, worm shafts corresponding in number to the number of said blades and parallel with the main shaft and journalled in said hub and extending at their front ends into said housing, the worms of said worm shafts meshing directly with the said worm wheels, a pinion on the front end of each worm shaft, a gear ring loose about the main shaft and located in said housing, the said pinions on the front ends of the worm shafts all meshing with said gear ring, another gear ring in said housing disposed concentrically in relation to the aforesaid gear ring and also meshing with the said pinions, a pair of normally inoperating brakes remote from said housing, a longitudinal lay shaft geared at its ends to one of the brakes and to one of the said gear rings, another longitudinal lay shaft geared at its ends to the other brake and the other gear ring, remote control means to bring selectively said brakes into operation to arrest rotation selectively of said two gear rings, and means controlled only by the arrival of the said blades at their normal ahead and normal astern settings to free the appropriate operated brake.

2,642,947

ACOUSTIC DEVICE WITH AN INVERTED HORN HAVING A THROAT VENTED TO THE ATMOSPHERE

Stephen L. Heidrich, Brooklyn, N. Y.

Application December 2, 1948, Serial No. 63,019
6 Claims. (Cl. 181—27)



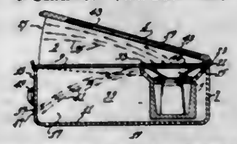
6. In an acoustic device for acoustically loading an acoustic diaphragm operating in an aperture in the center portion of a cupped baffle, one side of said diaphragm radiating sound into an acoustic chamber and the other side of said diaphragm radiating sound to atmosphere; the combination of an acoustic chamber defined by the outer or convex side of said cupped baffle in co-operation with an enclosure wall, a peripheral venting of said chamber at the periphery of said cupped baffle and communicating thereat with the larger end or mouth of a folded horn passage, said horn passage folded re-entrantly inward from the periphery of said cupped baffle, the smaller end or throat of said horn passage defined by telescopically interposed baffle tubes in spaced relationship to each other, said baffle tubes axially disposed with relation to said acoustic diaphragm, and said throat venting to atmosphere.

2,642,948

PORTABLE RADIO WITH A BASS-REFLEX CABINET

Harry F. Olson, Princeton, and John Preston, Metedeconk, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application May 28, 1948, Serial No. 29,845
3 Claims. (Cl. 181—31)



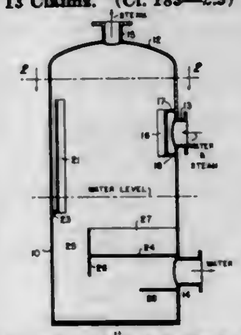
1. A sound system for a personal radio receiver comprising a housing including at least one wall substantially closing an air chamber space, said housing having a pair of openings therein remotely spaced from each other, a sound translating unit including a diaphragm mounted behind one of said openings for vibratory movement and closing off the air chamber space behind said one opening from the atmosphere, said diaphragm having one surface fully exposed to the atmosphere through said one opening and its other surface fully exposed to said air chamber space, the dimensions of the other of said openings being so small that it functions as a bass reflex opening, and an acoustical horn mounted on said housing in relation to one of said openings for transmitting sound waves emanating therefrom, said horn being constituted of a hinged cover for said housing, side pieces extending from opposite edges of said cover, and a wall of said housing.

2,642,949

SEPARATOR FOR STEAM, WATER, AND SCALE

John P. Tyskewicz, Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut

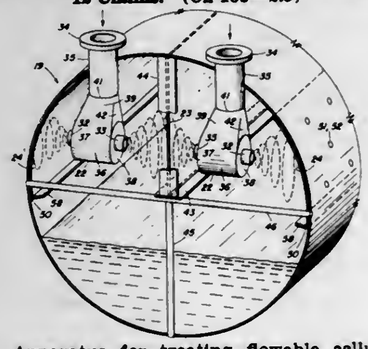
Application May 25, 1951, Serial No. 228,243
13 Claims. (Cl. 183—2.5)



1. A water, steam, and scale separator for use in a water circulating system which includes supply means adapted to maintain water within the system and a column of water at a preselected level within the separator, said separator comprising a substantially vertically disposed cylindrical shell which is closed at both ends, an inlet conduit extending into the upper portion of the shell above the water level therein and with its opening into the shell directed along the inside of a cylindrical wall of the shell, a steam outlet at the top of the shell, a water outlet extending from the lower portion of the shell be-

low the water level, a horizontal segmental baffle plate secured to the inside of the shell wall adjacent the upper edge of the water outlet and below the water level, and a vertical plate secured to the chordal edge of the segmental plate and forming with it a pocket to collect scale.

2,642,950
DEAERATING A SUSPENSION OF CELLULOSIC FIBERS
Carleton L. Clark, North Tarrytown, and Carlo Vicario, New York, N. Y., and Cornelius J. Lyons, Norwalk, Conn., and James A. Smith, Greenburgh, and William W. Hickey, Bronxville, N. Y., assignors to The Rotareaed Corporation, Bronxville, N. Y.
Application November 30, 1951, Serial No. 259,248
12 Claims. (Cl. 183—2.5)

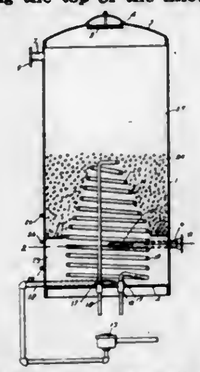


1. Apparatus for treating flowable cellulosic stock to effect de-aeration thereof, which comprises a generally horizontal closed vacuum tank, means for applying vacuum-inducing suction therein through the upper portion of the tank, means for maintaining a pool of de-aerated stock in the lower portion of the tank, means for removing de-aerated stock from that pool, a plurality of spray-nozzles in the upper portion of the tank, and from which stock is atomizingly projected, imperforate impingement means for receiving spray so projected spaced from opposite sides of said nozzles, and a stock supply header for forcibly supplying stock to the spray-nozzles, said nozzles being in pairs with the nozzles of each pair located back to back and having oppositely facing outlets directed towards the impingement means, and there being a common stock-supply for each pair of nozzles.

12. An apparatus for treating flowable cellulosic stock to effect a de-aeration thereof, including a tank provided with a weep hole, an imperforate impingement plate arranged against the interior surface of the tank over the weep hole and marginally welded to the tank and sealed throughout its marginal edges to the tank wall, a baked coating covering the impingement plate and adjacent surfaces of the tank, and closure means for the weep hole consisting of a plug welded within the weep hole in spaced relation with the impingement plate to insulate the impingeemnt plate and prevent the welding from injuring the coating.

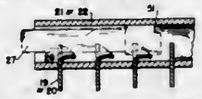
2,642,951
DEHYDRATOR
Orlo C. Norton, Erie, Pa.
Application November 2, 1949, Serial No. 124,986
9 Claims. (Cl. 183—4.3)

1. A dehydrating device comprising a cylindrical member having an inlet chamber in the lower end thereof and an outlet in the upper end thereof, an inlet pipe connected to said inlet chamber tangent to the internal periphery of said cylindrical member, a cooling coil extending upwardly from the bottom of said cylindrical member concentric of said cylindrical member, an annular baffle defining the top of the inlet chamber dis-



posed between said cooling coil and the inner periphery of said cylindrical member above said inlet, a source of cooling fluid for said cooling coil, a drain in the lower portion of said cylindrical member, and a dehydrating chemical substance disposed in the upper portion of said cylindrical member above said baffle and cooling coil.

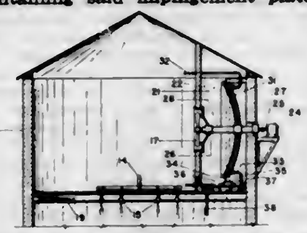
2,642,952
COLLECTING PLATE ASSEMBLY FOR ELECTROSTATIC PRECIPITATORS
George F. Landgraf, Pittsburgh, Pa., assignor to Trion, Inc., McKees Rocks, Pa., a corporation of Pennsylvania
Application February 4, 1950, Serial No. 142,382
3 Claims. (Cl. 183—7)



1. A collecting plate assembly for an electrostatic air filter comprising a plurality of plates spaced from but parallel to each other and extending the length of the assembly, and hollow tubes extending generally at right angles to the plates and having transversely extending slots spaced along their lengths, the slots extending only part of the distance across the tube, the distance between the slots corresponding to the distance between the plates, said plates having portions of their edges extending into said slots and bent over along a curved line within said tube towards the inside surface of the tube, said portions also having thickened sections adjacent the slots whereby a tight fit between the plates and the edges of the slots is obtained.

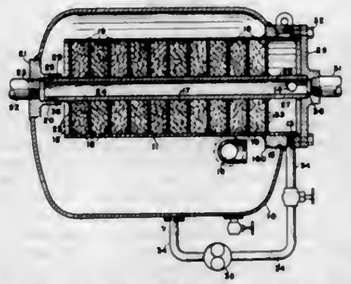
2,642,953
APPARATUS FOR RECOVERING GAS BORNE PARTICLES
Frank H. Buck, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application September 27, 1949, Serial No. 118,017
5 Claims. (Cl. 183—32)

1. Apparatus for recovering readily fusible solid material from a gas stream carrying such material in finely divided form which comprises a chamber with a gas inlet and outlet, an impingement plate larger than the cross-sectional area of said gas stream within said chamber, means for maintaining said impingement plate at a



temperature above the melting point of said material, means for recoverably collecting molten material from said impingement plate, means for projecting said gas stream at high velocity into said chamber and against the face of the said plate.

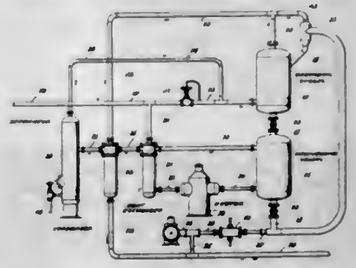
2,642,954
GAS RECEIVER-LIQUID SEPARATOR UNIT
John Le Valley, Painted Post, N. Y., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application April 26, 1950, Serial No. 158,302
5 Claims. (Cl. 183—49)



3. An air receiver-oil separator unit comprising a tank for receiving and storing oil laden air, an inlet for admitting such air, a casing extending into said tank and having an inlet in communication with the interior of the tank, said casing being of such size as to occupy substantially less volume than the volume defined by such tank to permit a reduction in the velocity of air entering the tank before entering said inlet of the casing, oil separating means slidable in said casing for separating oil from air passing therethrough, said means including a member extending through the casing, perforated discs positioned within said casing for separating the casing into compartments and being secured to said member to permit removal of the separator as a unit from said casing, and oil and air discharge passages for said casing.

2,642,955
GAS SEPARATION BY ADSORPTION
Richard L. Huntington and Laurance S. Reid, Norman, Okla., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 25, 1947, Serial No. 756,866
11 Claims. (Cl. 183—114.2)

7. In a cyclic method for removing an adsorbable component from gas containing the same, the combination of steps comprising dividing raw gas from a pressured source thereof into a major portion and a minor portion, reducing the pressure of said major portion and then flowing the same into a relatively cool adsorbing zone countercurrent to the progression of a substantially continuous mass of sorbent particles moving through and from said zone toward and into a hotter regenerative zone, passing the major portion of gas from the top of the adsorbing zone as treated gas, heating the said minor portion of the raw gas, passing said heated portion into contact with sorbent particles in the regenerative zone, passing all of said heated minor gas por-



tion out of said regenerative zone, condensing liquefiable elements from said minor gas portion, separating said liquefiable elements, flowing the thus stripped minor gas portion into the adsorbing zone, bleeding a third gas portion from the gas in the system, conducting a flow of said third portion under pressure to the adsorbing zone, feeding regenerated sorbent particles from said regenerative zone into the flow of said third portion to effect delivery of said particles to the adsorbing zone, and separating the regenerated particles from the flow of gas under pressure delivering said particles to the adsorbing zone and conducting the gas into the stream of treated gas.

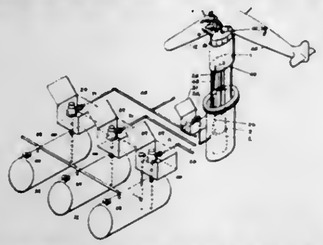
2,642,956
METHOD OF REMOVING ACETYLENE FROM GASEOUS MIXTURES
Robert C. Bour, Chicago, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 23, 1944, Serial No. 564,904
11 Claims. (Cl. 183—115)

1. The process of recovering acetylene from gases containing the same which includes the step of scrubbing said gases with a liquid predominantly comprising an ester of phosphoric acid derived from an alcohol containing not more than 6 carbon atoms.

2,642,957
GASOLINE DISPENSING SYSTEM FOR AIRPLANES
Albert E. Watts, Jr., Great Neck, and Jack B. Parker, Brooklyn, N. Y., assignors to Wattpar Corporation, a corporation of Delaware
Application August 27, 1948, Serial No. 46,398
9 Claims. (Cl. 187—1)

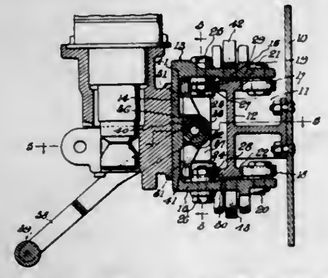
1. In a fueling and servicing system for airplanes, in combination, a submerged pit casing, a cylindrical cell unit mounted for vertical movement within said pit casing and having a plurality of vertical standards extending upwardly

from the roof thereof, means including a control within said unit for raising the said cylindrical cell unit to an elevated position outside and above the pit casing and for lowering the same to a position entirely within the casing, a circular plate for closing the submerged pit casing when said cylindrical cell unit is in its said lowered position, provided with openings for slideably



engaging said vertical standards and with a handhole for gaining access to said elevator controls whereby an attendant on said plate can cause the elevation of said cylindrical cell unit together with the circular plate and himself, said vertical standards guiding the initial movement of the cell relative to the plate and holding the plate on the cell during the final combined elevation of the two.

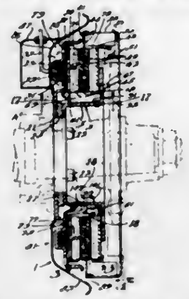
2,642,958
GUN MOUNT BRAKE MECHANISM
Robert J. Lennon, Moline, Ill.
Application June 28, 1944, Serial No. 542,593
12 Claims. (Cl. 188—42)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a gun mount, a carriage comprising a back plate, an upper plate and a lower plate, fixedly mounted rollers carried by the upper and lower plates, movably mounted rollers carried by the upper and lower plates, a pair of aligned screw shafts mounted in the back plate, a pair of jaws each threadedly mounted on one of the screw shafts, each jaw having a pair of outwardly directed wedges for engaging the movably mounted rollers, means for rotating the shafts to separate the jaws, and manually operable means for counterrotating the shafts to withdraw the jaws.

2,642,959
DISK BRAKE CONSTRUCTION
Phelps M. Freer, Detroit, Mich.
Application October 23, 1948, Serial No. 56,085
18 Claims. (Cl. 188—72)

12. A rotary friction brake comprising a support member adapted at one end for fixed connection to a non-rotatable object and having a radial outwardly extending corrugated flange at the other end, the central portion of said member having a substantially flat sided periphery, a brake shoe having opposite radial friction faces disposed on the member for rotary and axial movement relative thereto, a rotatable flow actuating impeller, said brake shoe being mounted on the impeller for rotation therewith and axial movement relative thereto, radially corrugated braking members on opposite sides of the shoe having circumferentially spaced projections on the inner peripheries thereof fitted to the flat sides of the member, said brake shoe and braking members defining a chamber around the flat sides of the support member, having fluid communication with the channels formed in the cor-



rugated braking members, said braking member corrugations having fluid communication with said impeller whereby the impeller actuates flow through said chamber and members, a pressure member mounted on the support member remote from the flange and adapted upon movement in the direction of the flange to force the members and shoe thereagainst to effect braking, means whereby rotation of the pressure member causes axial movement of the members toward the flange, flexible actuator members in said chamber secured to the flat sides and extending between said projections and engageable with the pressure member to cause rotation thereof, and springs in said chamber affixed to the flat sides of the member and engageable with the projections to yieldably resist movement toward the flange.

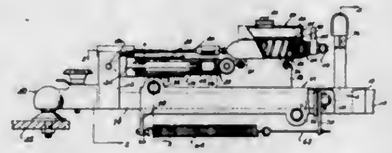
2,642,960
BRAKE SAFETY MECHANISM
Palmer Clyde Wilson, Uniontown, Pa.
Application December 1, 1949, Serial No. 130,548
7 Claims. (Cl. 188—106)



7. In a vehicle having a chassis, wheels, springs for mounting the chassis on the wheels and air brakes for the wheels, the brakes having a cam for pressing brake shoes against a drum, a lever to turn the cam, a diaphragm housing and piston connected to the cam lever and a source of fluid under pressure under control of the operator for actuating the piston to apply the brakes, safety

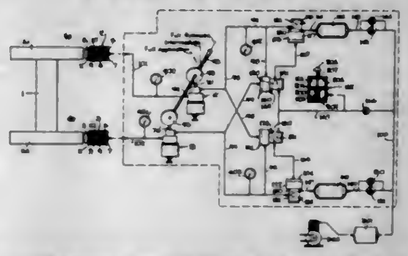
mechanism comprising levers secured at one end to a shaft rotatably mounted on the chassis, the levers carrying a support at their free ends which rests on a free end of the vehicle springs, a lever secured to said shaft and having one arm connected to a brake cam lever, a diaphragm piston connected to the other arm of said lever, and a diaphragm housing connected to said air reservoir for said piston, said shaft being rotated upon movement of the chassis towards the springs to apply the brakes, the diaphragm and piston being adapted when said reservoir has a supply of air under pressure to restrain said movement of the chassis towards the springs.

2,642,961
AUTOMATIC BRAKE HITCH ASSEMBLY FOR TRAILERS
Paul Teal, Walla Walla, Wash.
Application March 2, 1951, Serial No. 213,618
3 Claims. (Cl. 188—112)



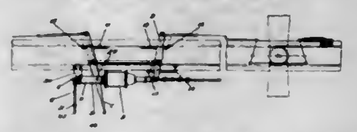
2. A hitch for connecting a towing vehicle to a trailer comprising an open ended housing having one of its open ends adapted to detachably receive the projecting end of a trailer tongue, a pull bar arranged longitudinally of and within said housing and having one end inwardly of and spaced from said one open end of said housing and having the other end adapted for detachable connection to a towing vehicle exteriorly of and spaced from the other open end of said housing, said pull bar and housing being connected together for extensible movements relative to each other, a master cylinder adapted to be operatively connected to the brake cylinders of a trailer arranged exteriorly of and in longitudinal spaced relation with respect to said housing and supported on said housing, said cylinder including a reciprocable piston working within said cylinder and a piston rod having one end secured to said piston and having the other end exteriorly of said cylinder, an upstanding member carried by said pull bar adjacent said other end of the latter, a closed ended damping cylinder supported on the upper end of said member, the other end of said piston rod extending slidably through one of the closed ends of said damping cylinder, damping means housed within said damping cylinder and operatively connected to said other end of said piston rod, spring means operatively connected to said pull bar adjacent said one end thereof and to said housing adjacent said other open end of the latter for resisting relative extensible movements of said pull bar and housing, and shock absorbing means including a closed ended cylinder, a reciprocable piston working within said last named cylinder, and a piston rod having one end secured to said piston and having the other end slidably projecting out of one of the closed ends of said last named cylinder, said cylinder being positioned adjacent said master cylinder and supported upon said housing, the said projecting other end of said piston rod of said shock absorbing means being connected to said upstanding member below said damping cylinder.

2,642,962
FLUID PRESSURE BRAKE CONTROL APPARATUS
Fred S. Whaley, Greensburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application December 28, 1949, Serial No. 135,419
5 Claims. (Cl. 188—151)



5. Apparatus for controlling admittance and release of fluid under pressure to and from a pair of brake cylinder pipes, said apparatus comprising a source of fluid under pressure, two fluid pressure supply pipes, two operator's control valve devices controlling connection of said brake cylinder pipes alternatively with said supply pipes, respectively, or with the atmosphere, protection means controlling opening and closing of two supply communications connecting said supply pipes, respectively, with said source, said protection means having a normal position opening both of said supply communications and having two emergency positions closing one or the other of said supply communications, respectively, said protection means being responsive while in said normal position to a reduction in pressure of fluid in one of said supply pipes relative to pressure of fluid in the other of said supply pipes to assume one or the other of said emergency positions to close the respective supply communication connected to the supply pipe at reduced pressure, said protection means also being responsive to establishment of a reset pressure condition to return same to its normal position, and reset valve means connected to said protection means to establish said reset pressure condition.

2,642,963
SLACK ADJUSTER
Joseph Robinson, New York, N. Y.
Application October 14, 1946, Serial No. 703,258
2 Claims. (Cl. 188—197)



1. A slack adjuster comprising, in combination, with a brake cylinder, an attachment lug on the brake cylinder, a pair of parallel horizontally arranged carrier irons secured at one end to the attachment lug and turned upwardly at the opposite end, an elongated cover plate riveted at one end to the upwardly turned ends of the said carrier irons and detachably secured at the opposite end to the upper side of the attachment lug thereby providing a frame to protect the slack adjuster from accumulation of foreign matter thereupon, a bracket securing the end of the frame remote from the attachment lug to the car, an adjustment lever supported by said car-

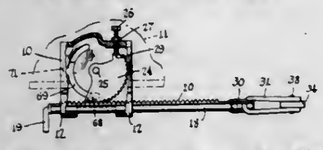
rier irons and operably disposed between the carrier irons and the elongated cover plate, said adjustment lever being connected with the brake rigging of the car and extending horizontally across the longitudinal axis of said adjuster through said frame to a point adjacent the side of the car, a link pivoted on said frame and disposed at the opposite end thereof relative to the attachment lug beyond the bracket and a ratchet bar pivoted to said adjustment lever and adjustably engageable with said link for cooperating with the link to remove undesired slack in said brake rigging at either or both ends of the car when the link is swung to the limit of its movement in one direction and to preserve desired slack therein at either or both ends of the car when the link is swung to the limit of its movement in the opposite direction.

2,642,964

BRAKE SLACK ADJUSTER FOR RAILWAY CARS

Lawrence R. Spann, Naugatuck, and George R. Tarbox, Cheshire, Conn., assignors to Eastern Malleable Iron Company, Naugatuck, Conn., a company of Connecticut

Application November 10, 1951, Serial No. 255,802
9 Claims. (Cl. 188—200)



1. A slack adjuster for use on a railway car brake rigging for adjusting the positions of brake shoes on the car with respect to the car wheels comprising two cooperating members, one being movable relatively to the other, said members consisting of a housing and an operating toothed member movably supported in said housing and connected to the railway car brake rigging; and a segmental gear rotatably mounted in said housing and engaging said toothed member and rotated thereby during the relative movement of said cooperating members, said gear when rotated in one direction by relative movement of said cooperating members disengaging said toothed member to provide for continued relative movement of said cooperating members independently of said gear to bring the brake shoes into engagement with said car wheels, said gear automatically re-engaging said toothed member for rotation thereby upon reverse relative movement of said members to limit and measure the said reverse movement in accordance with said rotation and thereby provide a predetermined amount of clearance between the brake shoes and the car wheels.

2,642,965

WELDMENT AND PROCESS FOR MAKING HIGH TENSILE STEEL WELDMENTS BY ELECTRIC ARC WELDING

François Georges Danhier, Anderlecht, Belgium, assignor to La Soudure Electrique Autogène Societe Anonyme, Brussels, Belgium

Application September 23, 1949, Serial No. 117,438
3 Claims. (Cl. 189—36)



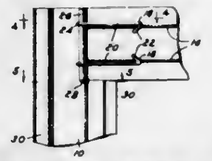
3. A weldment of low alloy high tensile steel having composite steel pieces each of which has a backing of at least ⅜'' thick of low alloy high tensile steel containing at least one alloying ingredient of the class consisting of manganese, chromium, molybdenum, silicon, nickel, vanadium, tungsten and copper, containing at least 1% of alloy content selected from the class, having in the annealed condition an ultimate tensile strength of not less than 74,000 p. s. i., hardenable by quenching, and each of which has at the same side a cladding layer of low carbon plain carbon steel of a minimum thickness of ⅛'', having at the area adjoining the weld a continuous intercrystalline bond to the backing, and a plurality of electric arc weld beads joining the pieces together and comprising weld-annealed beads joining the low alloy high tensile steel and an outer as-welded bead joining the low carbon plain carbon steel layer only.

2,642,966

DOOR FRAME

Joseph Sylvan, Berkley, Mich.

Application December 23, 1950, Serial No. 202,452
5 Claims. (Cl. 189—46)



1. In a frame of the character described having two cooperating frame elements secured together to form a rightangled corner, each element being substantially H-shaped in cross-section with the bridge of the H-shape being rectangular in cross-section, the end of one frame element having the legs of the H beyond one wall of the bridge cut-away adjacent to the end of the element, said wall provided with two apertures therethrough, the end of the other element abutting against said side wall of the first element having two opposite side walls of its bridge disposed in proximity to said two apertures, said two opposite side walls of the bridge of the other element being provided each with an aperture, a tension clip for each of said two side walls of said bridge connected at one end therewith and having its opposite end extending through an aperture in the side wall of the first element and connected therewith.

2,642,967

AWNING-TYPE WINDOW AND OPERATING MEANS THEREFOR

Fred Somerstein, Miami Beach, Fla., assignor to Crossly Window Corp., Miami, Fla., a corporation of Florida

Application December 29, 1948, Serial No. 67,831
2 Claims. (Cl. 189—69)



1. In an awning-type window structure, an upright rectangular window frame having channel-metal side bars with their channels facing inwardly, the channel on each side bar being formed by a wide inner flange and a narrow outer flange, said narrow flanges having their inner sides undercut, a vertical series of window sashes for said frame mounted for simultaneous movement into and out of said frame, means for actuating said sashes including flat slide bars slidably contacting the bottoms of the channels of said side bars of the frame, each of said slide bars having one longitudinal edge beveled for slidable engagement with the undercut side of the narrow flange of one of the side bars and its other longitudinal edge slidably engaged with the wide flange of said one side bar, and a plurality of vertically spaced pins on each side to retain said slide bars in their channels, said pins overlying said slide bars and having screw threaded portions engaged with threaded openings in said wide flanges.

2,642,968

PANEL FOR PREFABRICATED HOUSES

Alan D. Roush, Dayton, Owen M. Stolz, near Dayton, and John D. Yeck, Dayton, Ohio, assignors to General Building Units, Inc., Dayton, Ohio, a corporation of Ohio

Application May 6, 1947, Serial No. 746,342
3 Claims. (Cl. 189—86)



1. In a wall structure, the combination including vertically disposed supports, a plurality of panel members simulating the appearance of lap siding, each of said panel members including inwardly directed portions on two opposite sides thereof, one of said portions being undulated so as to be nested with an inwardly directed portion of an adjacent panel member, the other of said portions forming substantially right angle corners, the distance between corners being less than twice the radius of curvature of the undulating portions, the panel members being horizontally disposed one above the other with the undulating portion extending along the lower edge of the panel members, the corners being located along the top of each panel member, the corners of each succeeding lower panel member being seated in a concave portion of one of the undulations of the panel member immediately above so that the panel members simulate the appearance of lap siding, and means for fixedly securing the panel members to the vertically disposed supports.

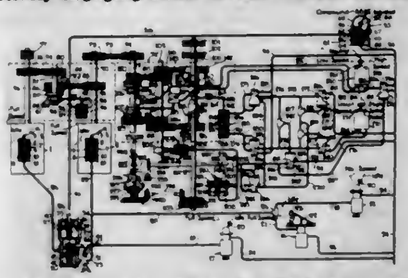
2,642,969

FLUID PRESSURE CONTROL APPARATUS

Roy R. Stevens, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application September 22, 1948, Serial No. 50,596
16 Claims. (Cl. 192—12)

1. In combination, a power input shaft, a power output shaft, differential speed power transmitting means connecting said shafts for driving said output shaft at different speeds relative to said input shaft comprising two positive type clutches associated with said output shaft and means including two friction clutches connecting said input shaft to each of said positive clutches, a first clutch control device for selectively engaging and disengaging either of said positive clutches, a second clutch control device having different clutch engaging positions for selectively engaging either of said friction clutches



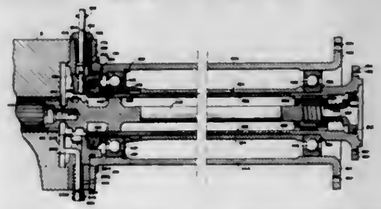
and also having a position for disengaging said friction clutches, and means responsive to operation of said first control means, with said second control means in either of said different clutch engaging positions, to effect disengagement and engagement of the respective friction clutch before and after, respectively, disengagement and engagement of said positive clutches.

2,642,970

LATCH RELEASED POSITIVE CLUTCH

Otto E. Szekely, Philadelphia, Pa., assignor, by mesne assignments, to O. E. Szekely & Associates, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application February 23, 1950, Serial No. 145,830
4 Claims. (Cl. 192—24)



1. A releasable drive for connecting a driving member and a driven member comprising a connector shaft having splined end portions, a driving shaft bored and splined for the reception of one end of said connector shaft, a driven shaft bored and splined for the reception of the other end of said connector shaft, a thread formed on said connector shaft, a plunger mounted for movement radially of said connector shaft and adapted for entry into said thread to effect axial movement of said shaft in its rotation and a spring in the bore of the driven shaft which abuts against the connector shaft and which biases the connector shaft towards the driving shaft, stop means to limit the travel of the connector shaft responsive to the spring, a circumferential groove in said connector shaft, a second plunger mounted for radial movement with respect to said connector shaft, said groove being positioned on said connector shaft so as to lie in the same radial plane with the end of said second plunger when the connector shaft is properly engaged with said driving shaft and a portion of the connector shaft

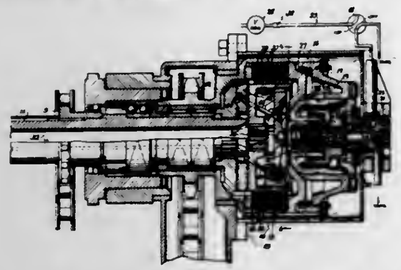
lying opposite said second plunger when the connector shaft is disengaged from said driving shaft.

2,642,971

OVERLOAD RELEASED FLUID CLUTCH

Loy D. Hagenbook, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application November 12, 1947, Serial No. 785,288
13 Claims. (Cl. 192—56)



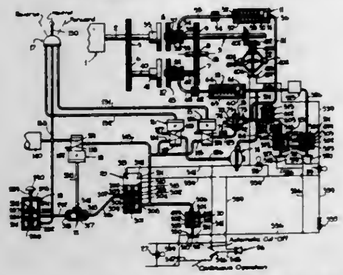
1. In a clutch for transmitting power, a driving member, a driven member, a releasable friction clutch for driving said driven member from said driving member, a fluid pressure operated engaging piston for moving said clutch into engagement, and release piston mounted within said engaging piston and subjected to fluid pressure operating said engaging piston and operatively connected with said driven member so as to move outwardly from said engaging piston upon predetermined load conditions on said driven member, to reduce the pressure of fluid acting against said engaging piston, whereby said clutch will slip upon predetermined load conditions.

2,642,972

CONTROL SYSTEM FOR FLUID PRESSURE ACTUATED PROPELLER CLUTCHES

Ralph C. Brooks, Turtle Creek, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application March 11, 1949, Serial No. 80,832
16 Claims. (Cl. 192—85)



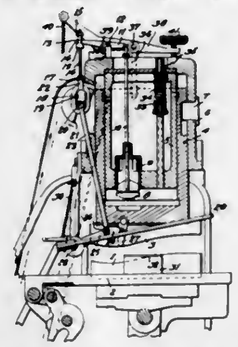
1. The combination with a power output shaft and a clutch engageable to establish a driving connection between a power input shaft and said power output shaft and disengageable to disestablish said driving connection, of manually operable control means for effecting normal engagement and disengagement of said clutch with said power output shaft free to turn, speed responsive protective means operable when rotation of said power output shaft is caused to drop below a certain speed to effect disengagement of said clutch, drive means connecting said speed responsive means to said power output shaft for operation thereby, and other means operable to render said protective means inoperable for a certain time period subsequent to engagement of said clutch to allow said power output shaft to attain a speed above said certain speed when normally free to turn.

2,642,973

PRESSING AND LIKE MACHINE

Václav Chmelař, Zlin, Czechoslovakia, assignor to Bata narodni podnik, Zlin, Czechoslovakia

Application October 30, 1947, Serial No. 782,989
In Czechoslovakia November 16, 1946
7 Claims. (Cl. 192—134)



1. A pressing or like machine, such as a shoesole pressing machine, comprising: a machine frame, a stationary piston secured to the machine frame, a displaceable cylinder enclosing the stationary piston, leaving a space for cushioning fluid between one end of the piston and the adjacent end of the cylinder, a valve shutting off the said cushioning space, a normally stationary mould member secured to the displaceable cylinder, a movable mould member, means for pressing the movable mould member against the normally stationary mould member, a movable guard hoop surrounding the position of a work-piece placed between the two mould members, connecting means movable into and out of operative position between said mould members for securing unitary movement of said members to prevent closing of the mould and means operable by interruption of movement of the guard hoop to control said valve and move said connecting means into operative position.

2,642,974

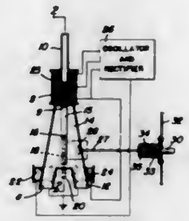
COIN MATERIAL TESTING DEVICE

John S. Ogle, Klamath Falls, Oreg., assignor of forty-nine per cent to Harold H. Ogle, Jr., Klamath Falls, Oreg.

Application November 30, 1949, Serial No. 130,220
3 Claims. (Cl. 194—100)

1. A coin testing device for a coin operated mechanism, comprising a bifurcated coin chute, connected with two channels, one of said channels leading to the coin operated mechanism and the other forming a coin rejection and return channel, means arranged at the bifurcation of the coin chute at the point of connection of the latter with the aforesaid two channels, for closing said chute in a normal position of rest and for

connecting it with either the one or the other of said channels when operated, an automatic means for operating the aforesaid means arranged at the bifurcation in one direction, the latter opening the chute and connecting it with the channel leading to the coin operated mechanism, said automatic means including an oscillator adapted to oscillate at resonance frequency, with an oscillation circuit maintained in a state of near resonance, an inductance coil forming part of and included within said oscillation circuit, said inductance coil surrounding the portion



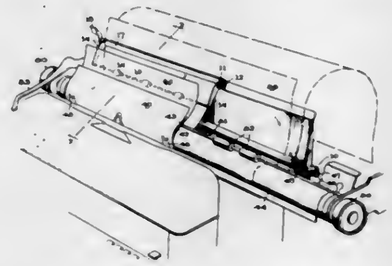
of the chute closed by the aforesaid means arranged at the bifurcation of the coin chute, and having an inductance of a value which normally differs from the resonance value but which corresponds to the value of resonance of the oscillation circuit if the portion of the coin chute surrounded by the coil is filled with a coin of a predetermined size and material, and a separate device for operating the aforesaid means arranged at the bifurcation point, the separate operation connecting the chute with the rejection and coin return channel.

2,642,975

TYPEWRITER FRONT FEED ATTACHMENT

Floyd J. Kavanaugh, Galveston, Tex., assignor of fifty per cent to Clark & Courts Investment Company, Houston, Tex.

Application April 17, 1952, Serial No. 282,739
6 Claims. (Cl. 197—128)



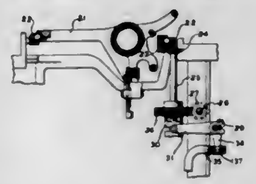
1. In a typewriter having a transversely moving carriage with a rotating platen, a front feed attachment comprising a flexible sheet-carrying means extending around the platen and having pockets in its forward and adapted to carry sheets for front feeding and means mounted on the typewriter carriage for anchoring the trailing end of said sheet-carrying means and determining the fully extended position of said sheet-carrying means whereby the pockets thereof are disposed in front feed position with respect to said platen.

2,642,976

MOTOR-DRIVEN CARRIAGE RETURN MECHANISM FOR BUSINESS MACHINES AND THE LIKE

Edwin O. Roggenstein, Norwalk, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware

Application September 21, 1950, Serial No. 185,935
3 Claims. (Cl. 197—66)



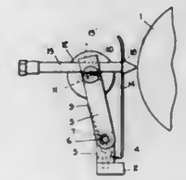
1. In a business machine having a movable carriage, a carriage return mechanism comprising a rack fixed to the carriage, a gear in mesh with the rack, a drive shaft fixed to the gear, a clutch member rotatably mounted on the shaft, a motor having a main winding and a starting winding for driving the clutch member, a driven member for the clutch splined to the shaft and normally disengaged from the first clutch member, a carriage return rock shaft, an arm fixed to the rock shaft for moving the driven member of the clutch into engagement with the first mentioned clutch member on the rocking of the rock shaft, a pair of contacts, a second arm on the rock shaft for closing the contacts on engagement of the clutch members and circuit means controlled by the contacts for energizing the starting winding to increase the torque of the motor.

2,642,977

LINE MAKING ATTACHMENT FOR TYPEWRITERS

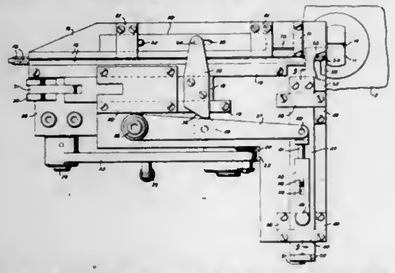
Edward G. Mosher, Denver, Colo.

Application April 4, 1949, Serial No. 85,372
8 Claims. (Cl. 197—113)



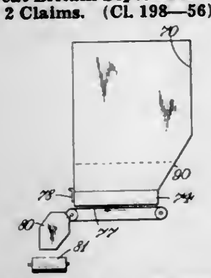
1. A line forming device for typewriters comprising a writing implement, a support for the writing implement, said support being adapted to be carried on the typewriter frame, a spring normally urging the writing implement into writing position, and a resilient member in the path of the writing implement, said resilient member having a plurality of openings therein, the writing implement being adjustably and individually related to the openings in the resilient member, said writing implement when engaged in one of the openings being urged by the resilient member into writing position, when engaged in another opening being freely movable with respect to the resilient member, and when engaged in the third opening being retarded by the resilient member from movement toward writing position.

2,642,978
ARTICLE FEEDING APPARATUS
Carl Herzog, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 21, 1950, Serial No. 186,002
4 Claims. (Cl. 198—24)



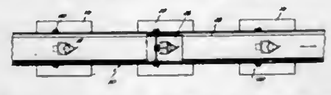
3. An article feeding apparatus in combination with an intermittently movable table having article receiving units successively moved by the table into a receiving position, the apparatus comprising means to advance articles successively in a given path out of alignment with the receiving position, a member having a recess to receive the leading article in a loading position in alignment with the path and movable between the loading position and a feeding position in alignment with the receiving position, means normally urging the member toward the feeding position, a lever operatively connected to the member, an ejector normally positioned out of the path of the member and movable through the recess when actuated to move the article therefrom and onto the unit at the receiving position and an element movable in one direction to free the lever for movement of the member into the feeding position and subsequently actuate the ejector, and movable in another direction to return the ejector to its normal position and subsequently actuate the lever to return the member to its loading position.

2,642,979
HOPPER AND LIKE CONTAINERS
Austin Sidney Beech, Leighton Buzzard, England, assignor to Foundry Equipment Limited, Leighton Buzzard, England, a British company
Application November 30, 1949, Serial No. 130,280
In Great Britain September 15, 1947
2 Claims. (Cl. 198—56)



2. In storage means for moulding sand, the combination of a hopper which is rectangular in plan, having a plurality of discharge openings elongated in the direction of the length of the hopper and extending transversely across the width of the hopper, continuously acting conveyor means close to and below said openings to remove material longitudinally from the hopper, inclined deflector walls within the hopper connected with the sides of each opening, which walls converge downwardly at an angle steeper than the angle of repose of loose moulding sand, the said deflector walls where they lie between the openings extending upwardly until they meet each other at an apex and each of said walls lying in a plane that diagonally overlies the greater part of a neighboring opening and the hopper being of a depth to extend to a height equal to that where the plane overlies the greater part of the neighboring opening, said conveyor means comprising a separate conveyor beneath each discharge opening, a box-like member surrounding each discharge opening and depending from the hopper, each of said members being positioned between its discharge opening and its separate conveyor and having its top and bottom open to communicate with its discharge opening and its separate conveyor, each of said members also having one of its sides open, and a gate valve movably mounted on each member to regulate the thickness of material removed by its separate conveyor.

2,642,980
SHAKER CONVEYER FEEDING AND PROPORTIONING APPARATUS
Dominick Soucek, Cicero, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 15, 1951, Serial No. 241,915
6 Claims. (Cl. 198—66)



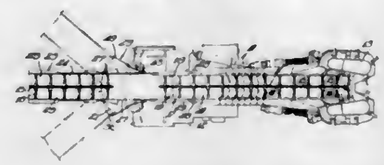
1. Shaker conveyor feeding and proportioning apparatus for supplying a plurality of use points with predetermined proportions of granular material comprising an elongated trough line extending past said use points and having drive means operably connected thereto for imparting material-moving reciprocatory movement thereto, said trough line having adjacent at least one of said use points flow-diverting means including a pair of side walls upstanding from the bottom of said trough line and spaced inwardly from the sides of the latter to define a transfer compartment therebetween and bypass passages therearound, said side walls closing the top and downstream sides of said compartment, said side walls having a pair of upstanding gates hinged thereto for swinging movement about vertical axes between the cover and trough bottom and closable against one another in the shape of a V having its apex centrally located within said trough and extending in an upstream direction, one of said gates extending substantially beyond said apex when closed in order to facilitate the initial opening and closing operations, said trough line having an opening in the bottom of said compartment, a longitudinally movable operating shaft supported within said compartment, link means connecting said gates to said shaft, a rotatable shaft carried by said trough line and transversely supported relative to said operating shaft, and an operable connection between said shafts for longitudinally shifting said operating shaft responsive to rotation of said rotatable shaft, the latter extending exteriorly of said trough line and having exterior means for manually rotating it for adjusting the degree of opening of said gate.

2,642,981
EXTENSIBLE CONVEYER WITH TAKE-UP MEANS
Frank A. Lindgren, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 13, 1951, Serial No. 236,548
6 Claims. (Cl. 198—109)



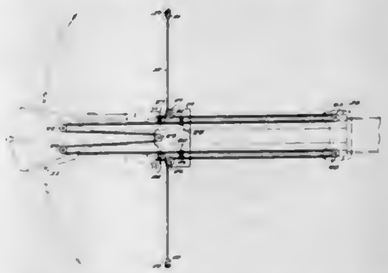
1. Extensible conveying apparatus for a mining machine comprising: a mobile main frame having a reciprocable front sub-frame and a vertically tiltable rear sub-frame; an endless flexible conveyor element trained about direction-changing members carried respectively on said sub-frames; means on said main frame and said sub-frames for supporting said conveyor element in upper and lower reaches; driving means for moving said upper reach from front to rear and said lower reach from rear to front; said rear sub-frame being pivotally mounted on said main frame about a transverse axis substantially intersecting the support for the upper reach; means for supporting a portion of the lower reach into the form of a depending, rearwardly extending elongated loop dividing the lower reach into rear and forward parts, said loop comprising a pair of legs substantially parallel to one another, the lower leg having an outlet throat section joining the forward part of the lower reach, and an imperforate supporting floor guiding said lower leg and throat sections in a path that continuously advances as it rises; said rear sub-frame and said main frame having therebetween a horizontal cover plate pivoted to one and slidable relative to the other beneath the lower reach and effective to bridge a gap between the rear sub-frame and the inlet portion of the loop at all tilted conditions of the rear sub-frame; and mechanism for tensioning said loop comprising loop-engaging hydraulic piston and cylinder means supported by said main frame within said loop and recessed in the latter so as to provide clearance across the top of the loop between the inlet and said throat section for the direct transfer of material thereacross without entering the loop proper.

2,642,982
ARTICULATED CONVEYER WITH SWIVELING MEANS
Chester E. Andershock, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 14, 1951, Serial No. 241,871
13 Claims. (Cl. 198—109)



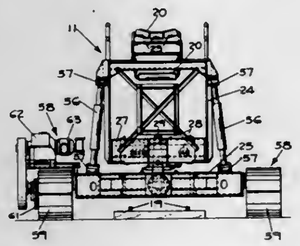
9. In a low-vein face loading machine, including a self-propelled main frame, an elevating conveyor extending from in advance of the forward end of said main frame along the top thereof and having a laterally movable discharge end portion overhanging the rear end of said main frame, a support frame structure on said main frame forming a support for said discharge end of said conveyor, a longitudinally slidable pivotal connection between said laterally swingable end of said conveyor and said support frame structure, a transverse guiding connection between said support frame structure and the laterally swingable discharge end of said conveyor, extensibly moving said conveyor as it passes beyond the longitudinal center line of the machine and retractibly moving said conveyor as it approaches the center line of the machine, the improvements comprising power means for laterally swinging the discharge end of said conveyor disposed beneath and within the lateral limits of said support frame structure and including a cylinder, a slidable pivotal mounting for said cylinder on said support frame structure disposed intermediate the ends of said cylinder and mounting said cylinder for pivotal movement about a vertical axis and for slidable movement about an axis extending transversely thereof, a piston within said cylinder, a piston rod extending from opposite ends of said piston and beyond opposite ends of said cylinder, a yoke extending forwardly from said laterally swingable portion of said conveyor in advance of the pivotal axis thereof, and a relatively loose connection between opposite ends of said piston rod and said yoke, to swing said laterally swingable discharge end of said conveyor in the direction of application of pressure to said piston, and maintain said piston rod under tension in either direction of swinging movement of said discharge end of said conveyor.

2,642,983
DUCKBILL SLEWING APPARATUS
Wilbur F. Frye, West Lafayette, Ohio
Application January 16, 1951, Serial No. 206,270
6 Claims. (Cl. 198—220)



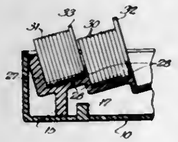
1. A duckbill slewing device comprising a feeder trough, a shovel trough having a shovel on the forward end suspended above and aligned with the said feeder trough, a shoe carried by the trailing end of the shovel trough, a plate positioned adjacent the shovel end of the feeder trough and mounted on the under surface thereof, sheaves journaled on the shoe, plate, and shovel, a cable extended around the sheaves on the shoe, shovel and plate and extended laterally from the sides of the trough, means anchoring the ends of the cable at points spaced from the sides of the troughs, and cable gripping means mounted on the plate and positioned on opposite sides of the troughs.

2,642,984
CONVEYER APPARATUS AND SUPPORTING MECHANISM THEREFOR
Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application February 21, 1950, Serial No. 145,501. Divided and this application March 14, 1951, Serial No. 215,499
6 Claims. (Cl. 198—233)



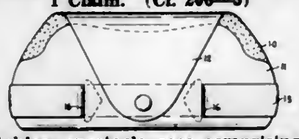
1. Conveyer mechanism including a main frame, a conveyer supported on said frame, a transversely extending axle below said frame, means interconnecting said frame and axle means adjacent the center of the latter for relative pivotal movement on a horizontal axis and on an upstanding axis and for relative up and down movement on said upstanding axis, independently operable load carrying jacks between said main frame, a conveyer supported on said frame, a said axle, for selectively adjusting said frame up and down relative to said axle and for pivoting said main frame relative to said axle on said horizontal axis, and control means for said jacks operable upon a predetermined relative up or down movement between said axle and said frame.

2,642,985
SUBDIVIDED CASHBOX
William H. Whitcomb, Portland, Oreg.
Application September 12, 1950, Serial No. 184,380
5 Claims. (Cl. 206—0.83)



3. A cash box comprising means forming a trough for reception of a row of coins, said trough comprising a series of substantially semicylindrical sections whose axes are parallel and inclined to the longitudinal axis of the trough as a whole whereby to provide a plurality of inclined steps, and a plurality of internal, knife-edge flanges rising respectively from the forward edges of said sections to provide spacers therebetween, each of said sections being of such length as to be capable of snugly receiving a certain plurality of newly minted coins in coaxial, face-to-face relation to each other, the upper edge of each of said flanges being downwardly recessed in the central portion thereof, the greatest width of said flanges being less than twice the thickness of a coin.

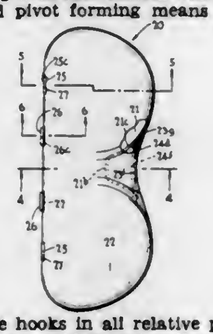
2,642,986
SPECTACLE CASE
Benjamin Grosvenor, Pomfret, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 16, 1948, Serial No. 65,660
1 Claim. (Cl. 206—5)



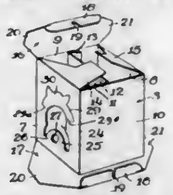
A stitchless spectacle case comprising a body portion formed of a one-piece blank of flexible sheet material folded along a first line of fold to form a pouch having a front panel and a rear panel and with open sides and top, the rear panel having an extended portion foldable over the outer surface of the front panel as a flap to cover the open top of said pouch, connection means carried by said front panel and said flap for detachably connecting said flap in place on the outer surface of said front panel, and spacer means secured interiorly of the pouch to one of said panels adjacent the first line of fold and substantially centrally of the opposed sides thereof, said front and rear panels each having spaced slits disposed approximately normal to said first line of fold, said slits on each panel being located on opposite sides of said centrally secured spacer means and inwardly of the open sides of the pouch, and a strap-like member having portions of a width no greater than and being capable of being threaded in said slits and terminating in enlarged opposed ends having a width greater than the length of said slits to provide abutment surfaces on the side of said enlarged ends opposite the end surface thereof and which extend outwardly of the opposite sides of the adjacent portions of the strap-like member, and said strap-like member being threaded through the spaced slits in one of said panels in such manner that each of its opposed end portions extend over the outer surface of said panel between the respective side thereof and the slit nearest said side, thence being wrapped about the open sides of the pouch onto the outer surface of the other panel and having its ends extended through the respective slits of said other panel nearest to the respective side of the pouch about which said end portions are wrapped, said enlarged ends lying on the inner surface of said panel in spaced relation with each other on opposite sides of said spacer means and concealed from view, said abutment surfaces of said enlarged ends overlying the inner surface of said panel beyond the opposed ends of the respective slits, whereby the strap-like member will function to close the sides of the pouch and maintain the panels in their folded relation while at the same time being readily interchangeable without destruction of parts.

2,642,987
RECEPTACLE HAVING HINGED COVER
Charles Castelli, Union City, N. J., assignor, by mesne assignments, to Columbia Protektosite Co. Inc., Carlstadt, N. J., a corporation of Delaware
Application November 27, 1948, Serial No. 62,259
9 Claims. (Cl. 206—6)

1. A receptacle hinge structure of the character described interconnecting a first wall portion with a second wall portion to swing from a relatively coplanar relation to a substantially right angular relation comprising a pair of spaced hooks extending from said first wall portion, a pair of pivot forming means integrally formed with said second wall portion engaging in said hooks, and a pair of spaced apart stop pieces extending from said first wall portion between said hooks coacting with said second wall portion for retaining said pivot forming means in engagement with the hooks in all relative positions of said wall portions, said second wall portion being formed with slots for receiving said stop pieces when said second wall portion is swung to said angular relation with respect to said first wall portion.



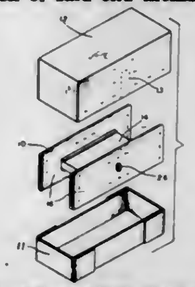
2,642,988
CARTON FOR COMMODITIES AND PREMIUM DISPLAY
Claude Cummins Freeman, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 31, 1950, Serial No. 182,564
1 Claim. (Cl. 206—45.14)



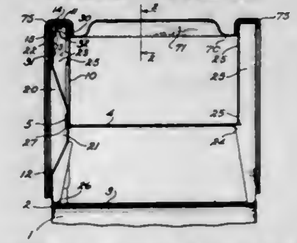
A two-compartment display carton formed from a single sheet of paperboard or the like, said carton comprising front and rear walls, two side walls, a centrally disposed vertical partition secured to the side walls, a top closure flap, and a bottom closure flap, the front and rear walls each having a plurality of cut outs to support an article partially exposed beyond the wall in which it is supported, said cut outs including a locking tab and a supporting collar, the collar engaging the rear edge of the displayed article and cooperating with the locking tab to hold the article against accidental displacement, the upper edge of each of the supporting collars being defined by a cut line shaped to conform to the contour of the upper portion of the article to be displayed.

2,642,989
SHIPPING DEVICE
George W. Keiser, Jr., Syracuse, Herbert D. Muise, East Syracuse, and William A. Miller, Liverpool, N. Y., assignors to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware
Application October 17, 1950, Serial No. 190,632
11 Claims. (Cl. 206—52)

7. A reel formed of paperboard, comprising: a tube of rectangular cross section, end members formed of pieces of sheet material and each having an elongated aperture to receive one end of the tube, locking sheets associated with the tube extending from the tube and bent away from the center of the tube in juxtaposition to the end members, reinforcing members within said tube spaced apart to define a passage centrally of the tube, each of said end members being provided with score lines which divide it into a central and at least one outer portion, the tube passing through the central portions and the locking sheets lying thereagainst, the outer portions being folded into juxtaposition with said central portion, each of the outer portions being provided with an aperture in line with the passage defined by said reinforcing members.

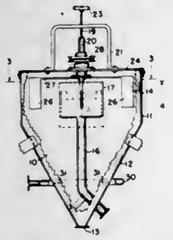


2,642,990
CABLE REEL AND LAGGING
Frederick R. Schaefer, Youngstown, and Raymond W. Emery, Warren, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Original application September 15, 1945, Serial No. 616,498. Divided and this application September 20, 1949, Serial No. 116,754
2 Claims. (Cl. 206—59)



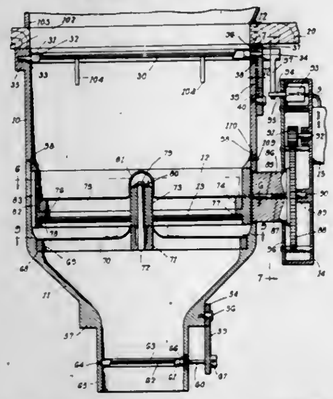
1. A device for handling a coiled article comprising a metal reel including a hub and disk-like end assemblies connected thereto at its ends, a length of sheet metal lagging encircling said reel, said lagging including a body portion spanning the space between said end assemblies, portions extending outwardly from the side edges of said body portion and being engageable with the inner sides of said end assemblies, and flange portions extending in opposite directions from the side edges of said outwardly extending portions and being engageable with the outer peripheries of the end assemblies, split rings encircling said flange portions of the lagging, and securing means attached to said rings and serving to urge the ends of said rings toward each other and to press the outwardly extending portions and the flange portions of the lagging against the inner sides and outer peripheries of the end assemblies, respectively.

2,642,991
CENTRIFUGAL CLASSIFIER
John Marshall Davis, Chamblee, Ga.
Application September 22, 1949, Serial No. 117,120
5 Claims. (Cl. 209—211)



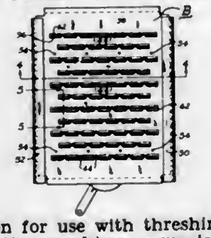
1. In a centrifugal classifier, an open top tank having a cone shaped wall portion, means for introducing material substantially tangentially into said tank, a lower discharge opening for heavier classified material, an upper discharge opening for lighter classified material, both said discharge openings being positioned about the central vertical axis of said tank, and a tubular collar within said tank and surrounding said upper discharge opening and arranged for vertical adjustment with respect thereto, said collar extending above and below said upper discharge opening and being spaced therefrom so as to form a flow channel between said collar and said upper discharge opening for the flow of said lighter classified material therethrough, said collar being open at both ends for the flow of said lighter classified material into said channel and outwardly through said upper discharge opening.

2,642,992
FLOUR SIFTER
Lewis E. Winn, Leaksville, N. C.
Application July 13, 1948, Serial No. 38,426
3 Claims. (Cl. 209—240)



1. In a dispenser for flour and the like, the combination, which comprises, a vertically disposed casing having an upper and a lower section, means removably attaching the lower section to the upper section, said upper section having tongues on the sides thereof, rails having screws for receiving the tongues of the upper section providing means for removably mounting the upper section on the under surface of a horizontally disposed panel, said lower section having a lower end of reduced size in cross section, a butterfly valve spaced from the upper end of the upper section, a butterfly valve in the reduced area of the lower section, shafts on which the valves are mounted, gear segments on the ends of the shafts positioned on the outside of the casing, arcuate bands having gear teeth in the edges providing racks slidably mounted on the casing and meshing with the said gear segments, vertically disposed handles connecting the ends of the bands for actuating the valves, a horizontally disposed screen rotatably mounted in the casing and positioned midway between the ends thereof and located between the said valves, a motor, an eccentric connection between the motor and screen for oscillating the screen, a switch connected to the motor, an arm extended from said switch and a lever extended from one of the valve actuating bands for engaging the arm of the switch to start the motor to oscillate the screen.

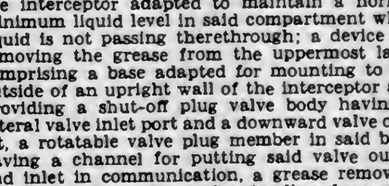
2,642,993
SCREEN FOR THRESHING MACHINES
Henry F. Straley, Riverton, Wyo.
Application August 7, 1950, Serial No. 178,039
3 Claims. (Cl. 209—398)



1. A screen for use with threshing and other grain separating machines, comprising an upper plate and a lower plate, said upper plate having a plurality of vanes projecting upwardly at an actue angle, said upper plate having an opening beneath each vane and said lower plate having a plurality of openings, means for adjusting said lower plate with relation to said upper plate to regulate the alignment or disalignment of the said opening of said upper and lower plates, said vanes being arranged in said upper plate in transversely extending rows with the vanes in each row being offset from the vanes in a preceding row, and deflectors on the plate between each pair of openings in a row in said upper plate, each deflector including an apex pointing away from and having inclined sides for directing some of the material through said openings, the apex of each deflector being in substantially the same vertical plane as the base of the vanes and one side of the openings between which the deflector is positioned and the inclined sides forming with said apex a triangle with the base thereof being in substantially the same vertical plane as the opposite side of the said openings.

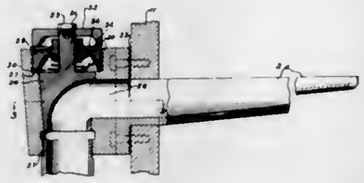
2,642,994
APPARATUS FOR HANDLING MAGNETIC MATERIAL
Kenneth H. Casson, Winnebago, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois
Application August 21, 1951, Serial No. 242,838
17 Claims. (Cl. 210—1.5)

14. Means for handling magnetic material, comprising, in combination, a movable carrier, a permanent magnetic pick-up unit attached to said carrier to be moved thereby along a predetermined path extending through a loading zone to an unloading zone, said pick-up unit including an elongated guide, a collector plate fixed to one end of said guide, and a permanent magnet



slidably mounted on said guide for free movement under its own weight into and out of proximity to said plate to selectively condition said unit for gathering and shedding magnetic materials in response to angular movements of said guide to respectively raise and lower said one end thereof.

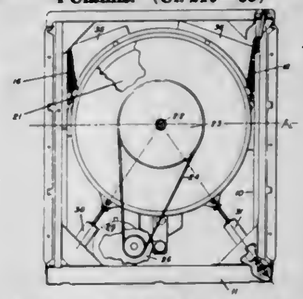
2,642,995
OUTLET FOR GREASE SEPARATORS AND THE LIKE
Henry G. Brenner, Michigan City, Ind., assignor to Josam Manufacturing Company, Cleveland, Ohio, a corporation of Delaware
Application March 30, 1950, Serial No. 152,873
2 Claims. (Cl. 210—51)



1. In a grease interceptor having a compartment in which grease and like materials separate from a mixture of liquids passed therethrough to form an upper grease layer beneath which liquid flows through the interceptor and having interceptor discharge means for liquid flowing through the interceptor adapted to maintain a normal minimum liquid level in said compartment when liquid is not passing therethrough; a device for removing the grease from the uppermost layer comprising a base adapted for mounting to the outside of an upright wall of the interceptor and providing a shut-off plug valve body having a lateral valve inlet port and a downward valve outlet, a rotatable valve plug member in said body having a channel for putting said valve outlet and inlet in communication, a grease removing trough integral with and extending from said base through an aperture in said wall into the said compartment transversely to the path of liquid flow therethrough, said trough being located with its top edges above the said normal liquid level in the compartment and having a trough bottom sloping downwardly to said valve inlet port, whereby liquid from said upper layer is discharged into said trough and through said valve when the liquid level in said compartment is raised during passage of liquid through the interceptor.

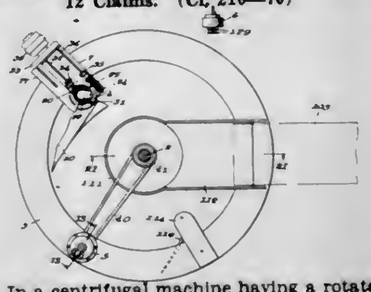
671 O. G.—72

2,642,996
WASHING MACHINE CENTRIFUGAL EXTRACTOR SUPPORT AND DAMPING MECHANISM
Richard C. Oeler and Arthur R. Constantine, South Bend, Ind., assignors, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application May 1, 1946, Serial No. 666,420
4 Claims. (Cl. 210—63)



1. In a washing machine, a frame, a clothes cylinder mounted for rotation about a substantially horizontal axis, a support for said cylinder, mechanism to rotate said cylinder, a tub unit carrying said support for said cylinder and said mechanism to rotate said cylinder, a resilient support for said tub unit comprising a plurality of resilient members each having one end thereof attached to said tub unit and the other end attached to said frame and providing a resilient suspension having a major deflection in a vertical plane and a minor deflection in a horizontal plane, a pair of damping members with longitudinal axes extending at an angle to each other in a direction substantially toward the center of rotation of said cylinder and each having one end thereof attached to said tub unit and the other end attached to said frame, each of said damping members comprising hydraulic piston means having intersecting lines of force and having relative movement in the direction of the longitudinal axis of said damping member thereby to produce a resistance to movement parallel to each of said longitudinal axes of each of said damping members.

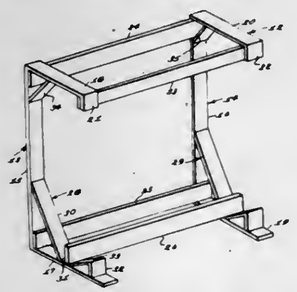
2,642,997
CENTRIFUGAL MACHINE
George W. Tompkin, Lahaina, Territory of Hawaii
Application February 14, 1946, Serial No. 647,582
12 Claims. (Cl. 210—70)



1. In a centrifugal machine having a rotatable basket formed with a screen peripheral wall and means for rotating the basket, the combination

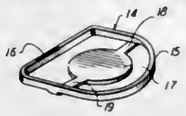
of timer mechanism electrically controlling rotation of said basket for a predetermined interval of time, governor mechanism actuated upon rotation of the basket and responsive to the speed thereof, means electrically associated with the basket rotating means and actuated by the governor mechanism for causing the operation of said basket rotating means upon expiration of the control thereof by said timer mechanism, a discharger controlled by said governor mechanism involving a plow positioned within said basket and mechanism for actuating said plow to move it up and down and also towards and away from the peripheral wall of the basket, means actuated by the governor for causing the plow of said discharger to move a predetermined distance towards the peripheral wall of said basket, means operable in response to a predetermined movement of the plow towards said peripheral wall for causing said plow to move downwardly, means operable in response to a predetermined travel of the plow during its downward movement for causing it to move away from said peripheral wall of the basket at the end of its downward movement, means operable in response to a predetermined movement of the plow away from said basket for causing the plow to effect an upward movement with respect to said basket to its normal at rest position, means actuated upon a predetermined travel of the plow upwardly for causing termination of its upward movement after it has risen a predetermined distance, and means electrically connected to said timer and acting in response to a predetermined upward movement of the plow for causing said timer mechanism to start operating again before termination of the upward movement of the plow.

2,642,998
SUPPORTING RACK AND HOLDER FOR MORTAR HODS
Ira E. Boyd, Sr., Warren, Ohio
Application September 8, 1950, Serial No. 183,881
2 Claims. (Cl. 211—60)



1. A mortar hod supporting rack including a pair of U-shaped frame members disposed in side-by-side spaced relation with respect to each other with their bights vertically disposed and each having the free end of one leg turned inwardly to form a depending flange, a pair of spaced cross bars respectively extending between and secured to the bights of said U-shaped frame members contiguous to the respective ends of the bights, and a stop bar extending between the other legs of said U-shaped frame members in spaced parallel relation with respect to the adjacent one of said pair of cross bars and secured to said other legs inwardly of their outer ends.

2,642,999
MAGNETIC HOLDING DEVICE
John C. McPherson, Bergenfield, N. J.
Application February 17, 1949, Serial No. 76,979
1 Claim. (Cl. 211—65)



A magnetic holder device of a type adapted to receive articles having magnetizable members on the sides thereof and articles with magnetizable members in the ends thereof, said magnetic holder device comprising a bracket having an attaching portion adapted for the connection of the holder device to a wall support or the like, a magnet embedded in said bracket comprising a ring portion surrounding the sides of the bracket, a plate portion presentable from the bottom of the bracket and integral portions extending radially inwardly from opposite sides of the ring portion and connecting with the plate portion at the opposite sides thereof.

2,643,000
GARMENT HANGER SUPPORT
Louis M. Morrison, Denver, Colo.
Application December 15, 1950, Serial No. 200,989
2 Claims. (Cl. 211—100)



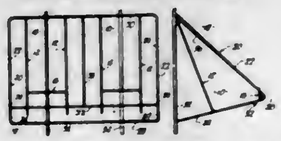
1. A foldable garment hanger support comprising, an elongated base member of angle cross section adapted to be attached to a wall, a hanger support arm of Z-shaped cross section having one end pivotally attached to one end of the base member for movement to positions substantially parallel therewith and perpendicular thereto, stop means for limiting the movement of the support arm to substantially ninety degrees, a plate having one end attached to the base near the end having the support arm pivot, said plate extending laterally from the base, terminating in a bearing adjacent its outer end, and a brace rod having one end journaled in said bearing and the other end attached to the outer end of the support arm, whereby a triangular structure is formed comprising the support arm, the plate and the brace rod, said triangular structure serving to resist forces tending to move the support arm laterally, one flange of the support arm having a pivotal connection with the base, the other flange having a plurality of openings for the reception of garment hangers.

2,643,001
WINDOW DRAPERY SUPPORT
Leonard G. Peretti, Chicago, Ill.
Application January 8, 1952, Serial No. 265,367
2 Claims. (Cl. 211—103)

1. A slidable curtain support comprising guide members adapted to be attached to a window trim one at each side of the window to extend downwardly from the top of the trim, legs slidably mounted one on each of said guides for upward and downward movement relative thereto, head formations disposed one on each leg at the upper end thereof, a curtain rod extending between said head formations, means on said head formations receiving the corresponding ends of said curtain rod, and latch formations on said legs at the lower ends thereof engageable with the corresponding guides to releasably latch said legs in predetermined elevated position relative to said guides, each of said guides comprising a rod structure having a substantially straight intermediate portion, screw receiving eyes offset laterally from said intermediate portion one near each end of the latter for mounting said guide on a window trim, and a leg receiving eye offset laterally from said intermediate portion near the normally lower end of the guide, said screw receiving eyes being disposed substantially in a common plane perpendicular to the plane of said leg receiving eye, and each of said legs also comprising a rod structure including a substantially straight intermediate portion slidably received in the leg receiving eye of the associated guide and having near its normally upper end a laterally offset eye receiving the intermediate portion of the associated guide.



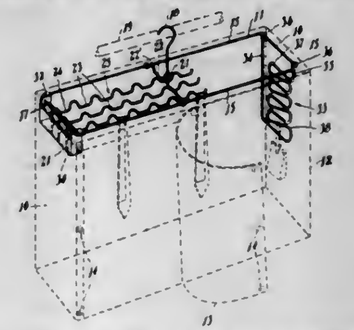
2,643,002
POCKETED DISPLAY RACK
Harry J. Rubenstein, Kansas City, Mo.
Application July 13, 1951, Serial No. 236,579
4 Claims. (Cl. 211—106)



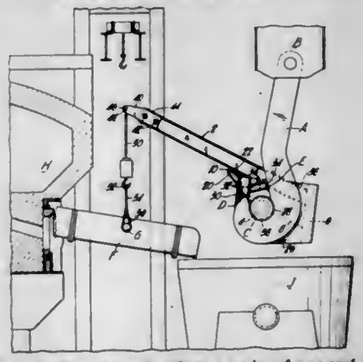
1. A display rack comprising a tray having a back portion and a bottom portion; a pair of spaced horizontal members; means fastening said back portion of the tray to one of said horizontal members; means fastening said bottom portion of the tray to the other of said horizontal members; means interconnecting said members for presenting sides for the tray; an upright standard attached to said one horizontal member; and means joining said standard to the other horizontal member.

2,643,003
RACK FOR TIE BAGS
Donald M. Christie, Haviland, Ontario, Canada
Application November 12, 1951, Serial No. 256,022
1 Claim. (Cl. 211—119)

A hanger for use in supporting a tie bag of pliant material and comprising a rectangular frame, over which the bag is draped, fashioned of wire rod material to provide longitudinal side bars and an end bar; suspension means for said frame; a mounting plate having upper and lower horizontal members and end members extending above the upper horizontal member, said end members having alined holes adjacent their upper ends through which said end bar of the rectangular frame extends, ears carried by said end members in front of said holes overlying said longitudinal side bars and being engageable therewith to prevent the mounting plate from swinging backwardly, and hanger rods each pivotally and detachably supported at an end on said upper and lower horizontal members to swing outwardly of the frame in a plane substantially parallel to that of the rectangular frame.
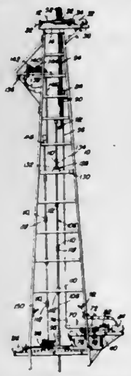


2,643,004
LIFTING BOOM FOR LADLE CRANES
Roy L. Wingenroth, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application August 27, 1952, Serial No. 306,567
5 Claims. (Cl. 212—11)



1. In a ladle crane having a pair of spaced lift hooks suspended therefrom, each of said hooks having a hook end, an involute cam bearing portion adjacent said hook end, and an inner wall extending from said involute cam bearing portion; the combination therewith of a round shaft, a collar of enlarged outside diameter on each end of said shaft, an end plate on each end of said shaft spaced from said collar to form a trunnion-like bearing portion on each end of said shaft between said end plate and said collar, said shaft being adapted to be carried by said hooks with the trunnion-like bearing portion at each end thereof being fitted in the involute cam bearing portions

of said hooks, a horizontal bearing plate mounted on the outer face of each of said end plates above said shaft adapted to abut the hook ends of said hooks when said shaft is supported by said hooks, a substantially vertical bearing plate mounted on the outer face of each of said end plates spaced from said horizontal bearing plate and above said shaft adapted to abut said inner walls of said hooks when said shaft is supported by said hooks, a bracket having a forward and rearward end attached to and angularly supported by the upper portion of said shaft intermediate its ends, said bracket extending transversely of said shaft with its forward end disposed in a plane above the axis of said shaft and its rear end in a plane below the axis of said shaft, a counterbalance affixed to the rear end of said bracket, a cantilever boom having a forward and rear end attached by its rear end to said counterbalance, the rearward portion of said boom being supported by and attached to said bracket, the forward end of said boom projecting beyond said bracket in the direction away from said hooks when said shaft is supported thereby, and hook means suspended from the forward end of said boom adapted to engage an object to be handled.

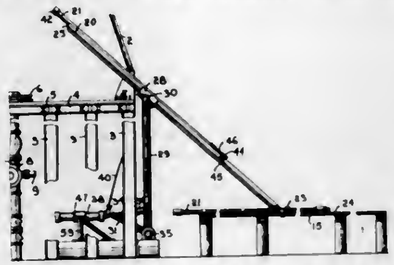
2,643,005
WELL PIPE HANDLING EQUIPMENT
Frank D. De Jarnett, Long Beach, Calif., assignor of one-half to Paul A. Medearis, Torrance, Calif.
Application March 12, 1948, Serial No. 14,563
9 Claims. (Cl. 214—2.5)



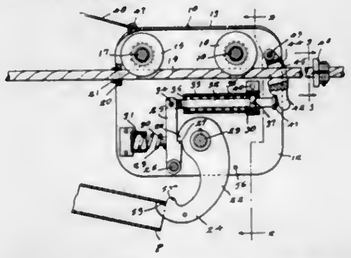
4. In apparatus for handling pipe at a well hole, the combination of: a pair of vertically spaced carriages movable horizontally; a vertical guide means connected at its opposite ends to said carriages respectively for movement therewith; means to move said two carriages synchronously to shift said guide means laterally; and a pipe elevator in guiding engagement with said guide means.

2,643,006
AUTOMATIC PIPE HANDLER
William R. King, Longview, Tex.
Application September 28, 1949, Serial No. 118,351
5 Claims. (Cl. 214—2.5)

1. A unitary pipe handler device for rotary drilling rigs to furnish pipe sections to the derrick floor when making up or adding to a string of pipe, and for removing pipe sections from the derrick floor in breaking down a string of pipe comprising, a pipe dolly and mechanical means to elevate and lower one end thereof from pipe rack to and from derrick floor elevations comprising, a lever linkage connection to the derrick floor end of the dolly, a roller on the outer end of said dolly, and a pipe rack having a trackway to receive said pipe sections.



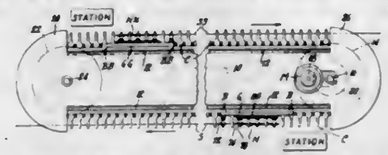
2,643,007
PIPE HANDLING APPARATUS
Bowman W. Gray, Odessa, Tex.
Application July 20, 1951, Serial No. 237,777
2 Claims. (Cl. 214—2.5)



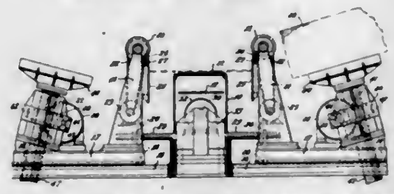
1. Pipe handling apparatus comprising a movable frame, a pair of grooved wheels rotatably carried by said frame and engageable on a taut cable whereby said frame may be moved along said cable, a pipe engaging hook rockably carried by said frame, a keeper carried by said hook, a spring-pressed latching member carried by said frame for engaging said keeper to lock said hook in operative position, a latch releasing lever carried by said frame, a spring biased operating connection between said latch and said lever, and a lever operator secured to said cable whereby contact of said lever with said operator will rock said lever to latch releasing position.

2,643,008
TOBACCO STRINGING MACHINE
Maurice Bourquin, Wavre, Saint-Blaise, Switzerland
Application March 11, 1949, Serial No. 80,817
In Switzerland September 22, 1948
8 Claims. (Cl. 214—5.5)

4. In a tobacco stringing machine, the combination of a stationary frame, a member movable relative to said frame for carrying a series of tobacco leaves in a predetermined path through the machine, a needle lying lengthwise in the path of said tobacco leaves, said needle having a plurality of rack teeth extending lengthwise thereof, means carried by said movable member for holding said needle against lateral movement relative to said path, a rack fixed to said stationary frame, gear means carried by said movable member for connecting said last-named rack with the rack teeth on said needle whereby to hold said needle against lengthwise movement, and means for moving said movable member to successively impale tobacco leaves carried thereby upon said needle.

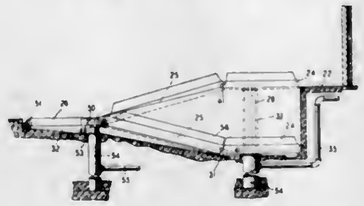


2,643,009
DEVICE FOR LOADING SHEETS OR PLATES ONTO CONVEYERS
John Warner Kenyon, Ashland, Ky., assignor to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio
Application June 3, 1949, Serial No. 97,042
16 Claims. (Cl. 214—8.5)



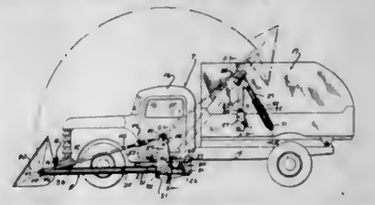
1. In combination with a conveyor, a sheet loading organization comprising a tapered feed roll and a pack stand mounted upon a common support, said support being arranged for movement at right angles to the path of movement of said conveyor, the longitudinal axial plane of said pack stand being disposed parallel to said path of movement, and inclined to the vertical so that said pack stand slopes with its upper end toward said feed roll and conveyor, said pack stand being provided with means for elevating and lowering it in said plane.

2,643,010
LOADING DOCK
Ion V. K. Hott and William L. Simonton, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a corporation of Ohio
Application September 4, 1945, Serial No. 614,230
9 Claims. (Cl. 214—38)



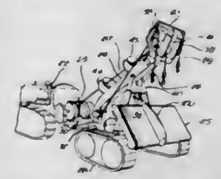
1. In combination with a platform and a pit adjacent said platform, a ramp comprising a rear section mounted for vertical movement in said pit and adapted to receive and support the rear wheels of a truck, said pit being of such depth with relation to said platform that when said section of said ramp is in a lower position the floor of said truck will be substantially flush with said platform, said ramp also including a second section pivotally connected with and extending forwardly from said rear section and having its forward end supported for movement about a transverse axis adjacent the top of said pit, and means in said pit to impart vertical movement to said rear section.

2,643,011
FRONT OR REAR-END TRUCK LOADER
John R. Brisson, Walter O. Brisson, and Leslie W. Brisson, Norway, Mich.
Application May 10, 1950, Serial No. 161,236
7 Claims. (Cl. 214—78)



1. A loading attachment adapted to be associated with either the front or rear of a motor vehicle of the type having a chassis and a body, comprising a cross beam extending under the chassis, means detachably securing the cross beam to the chassis, upright brackets rigidly secured to the ends of the cross beam, a hollow equalizing cross shaft rotatably mounted on the beam, cylinder booms rigidly secured to the cross shaft for movement therewith having communication with the interior of the cross shaft, a bucket disposed between the outer ends of the boom cylinders, stub shafts on the ends of the bucket rotatably supported by the booms, radius tie rods pivotally connected at their inner ends to the brackets, means rigidly connecting the outer ends of the radius tie rods to the stub shafts, and means for forcing liquid under pressure to the boom cylinders through the equalizing cross shaft.

2,643,012
APPARATUS FOR THE TRANSPORTATION OF PULPWOOD AND THE LIKE
Harold F. Wahl, Portland, Oreg., assignor to Hyster Company, Portland, Oreg., a corporation of Oregon
Application May 23, 1950, Serial No. 163,656
4 Claims. (Cl. 214—85.1)



1. Apparatus for use in handling and hauling bundles of pulpwood and the like when used with a tractor having a winch on the rear end thereof, and a line controlled by the winch, and comprising, in combination, a vehicle adapted to trail the tractor and having an underframe structure having a drawbar at the forward end thereof,

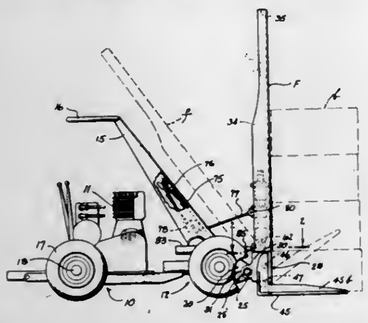
said underframe structure being supported to the rear of the drawbar by laterally spaced and substantially coaxial wheels, a load supporting apron mounted at the rear of the underframe structure in spaced relationship to the wheels, a boom supported by the underframe structure and extending upwardly and rearwardly relative to the lateral mid-portion of the underframe and to a position above the apron, a main fairlead carried by the boom at a position above the apron, said fairlead opening rearwardly and having rollers for guiding the line from the tractor winch, auxiliary fairleads on opposite sides of the first mentioned fairlead, auxiliary hand operated winches carried by the trailing vehicle at the forward end of the boom in line with the auxiliary fairleads, and load supporting lines extending through the auxiliary fairleads from the auxiliary winches for supporting bundles on the apron, the winch line that extends from the tractor winch through the rollers of the main fairlead being adapted to support additional bundles on top of the aforementioned bundles on the apron.

2,643,013

LOAD SUPPORTING AND CLAMPING ARMS FOR HAND TRUCKS WITH TILTABLE CARRIER FRAMES

Rodney Jackson, Seattle, Wash., assignor to Paul J. Isaacson and F. T. Isaacson

Application October 8, 1951, Serial No. 250,254
5 Claims. (Cl. 214—147)



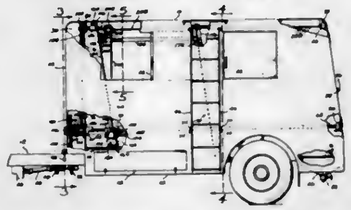
1. In a truck of the character described; a chassis comprising a steerable front end section, a cross-shaft supported thereby at its forward end, a load carrier frame hingedly supported by said cross-shaft for adjustment thereon between a substantially upright load pick-up position and a rearwardly reclining load transporting position over the steerable front end section, arm mounting means adjustably supported by the load carrier frame at its lower end, clamping arms rigidly fixed to said arm mounting means and extended, in cooperating relationship, forwardly of the load carrier frame, power operated means on the load carrier frame for adjusting said arm mounting means to move the arms into clamping contact with an object received between them for lifting and supporting it for transportation, power operated means on the said steerable front end section for tilting the load carrier frame from upright to a reclining position of support on said front end section with an object held between said arms, spring means for actuating the load carrier frame from reclining to upright position upon the de-energization of the second mentioned powered means and spring means for moving the clamping arms apart upon de-energization of the first mentioned powered means.

2,643,014

REFUSE HANDLING APPARATUS

Ambrose Calcagno, Portland, Oreg.

Application June 9, 1950, Serial No. 167,147
4 Claims. (Cl. 214—518)



1. Refuse handling apparatus comprising a body, a packing plate mounted transversely in the body, an upper screw and a lower screw extending longitudinally of the body, internally threaded members for attaching the packing plate to the screws in threaded engagement therewith, one of the internally threaded members being slotted and adapted to receive in the slot a pin attached to the packing plate, thereby permitting adjustment of the angle of inclination of the packing plate, and means for driving the screws independently of each other, thereby effecting the adjustment of the angle of inclination of the packing plate.

2,643,015

TAMPERPROOF CONTAINER CLOSURE

Jack W. Soffer, St. Louis, Mo., assignor to Development Research, Inc., St. Louis, Mo., a corporation of Missouri

Application December 8, 1949, Serial No. 131,804
7 Claims. (Cl. 215—42)



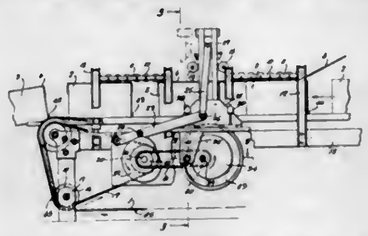
4. A tamper-indicating replaceable cap for a container having a discharge portion with an outstanding lip portion, comprising a closure cap having a side wall portion of hollow cylindrical form with an inner diameter fitting freely endwise over the lip portion and being provided with opposed inwardly-extending retaining portions substantially in the plane of the lower margin of the side wall and engaging beneath such lip portion on application of said closure cap to such container, said closure cap being provided externally with an integral outstanding finger lug adjacent to the edge of the side wall portion in registration with one of the retaining portions, said side wall portion having a frangible weakened zone adjacent the lug, so as to provide a frangible wall portion about the finger lug adapted to be broken out along with said retaining portion on application of force to said finger lug thereby to release the engagement of said retaining portion beneath such container lip and permit the removal with the lug of part of the wall and the said retaining portion.

2,643,016

CARTON TAPING APPARATUS AND METHOD

Charles W. Steckling, Milwaukee, Wis., assignor to Jos. Schlitz Brewing Company, Milwaukee, Wis., a corporation of Wisconsin

Application November 18, 1949, Serial No. 128,154
14 Claims. (Cl. 216—22)



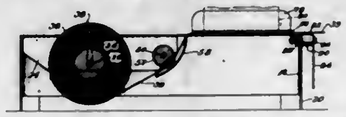
1. In an apparatus for applying sealing tape for closure of a series of uniform cartons each having a pair of closing flaps meeting along a longitudinally extending meeting line, means for maintaining said series of cartons in uniformly spaced relation with the meeting line of the flaps thereof in longitudinal alignment; means for adhesively applying a closing tape extending from carton to carton to the adjacent margins of the pairs of meeting flaps and spanning the uniform spaces between the cartons; a movable cutting head including a severing and tensioning knife; actuating means for said head including means operative to cause said knife to move toward said tape to engage, tension, and cut, the same while successively entering the spaces between successive cartons, and a pair of outwardly spring urged inwardly swingable pressure rollers mounted on said head flanking said knife in trailing relation thereto positioned to contact said tape and press the same against the ends of said cartons after said tape has been tensioned by said knife and prior to the severance of the same thereby and to deflect and press the cut ends of said tape against the ends of adjacent cartons after severance.

2,643,017

PHOTOGRAPHIC SLIDE BINDER

George W. Mack, Waterloo, Iowa

Application February 18, 1950, Serial No. 144,926
8 Claims. (Cl. 216—30)



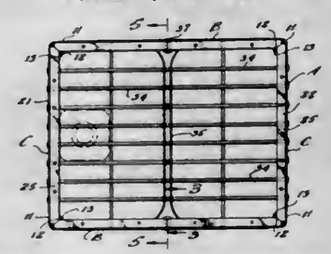
1. In a device of the character disclosed, a mounting structure, means for mounting a reel of adhesive tape on the structure for free turning, said tape being adhesive on one side thereof, an open-ended channel on the upper surface of the structure, said channel having a longitudinal slot in its upper surface, a vertical guide integral with said channel extending upwardly from only one edge of said slot, and a roller engaging the adhesive side of the tape to unreel said tape and to feed the tape into said channel with the adhesive side of the tape facing said longitudinal slot, said slot being adapted for insertion of a photographic slide thereinto, the width of said slot being much greater than the width of said photographic slide and said guide being effective for retaining the slide in vertical position, the slide when in said slot engaging the tape in the channel whereby the tape adheres to the slide.

2,643,018

MILK BOTTLE CASE AND BOTTOM FRAME THEREFOR

John F. Maurer, Leonia, N. J.

Application March 15, 1950, Serial No. 149,763
1 Claim. (Cl. 217—69)



A metal frame for a wooden bottle case consisting of two mating sections each of U-shaped formation in plan and of channel-shaped formation in cross-section having inner and outer flanges and a bight portion connecting said flanges, said sections having apertured ears in said outer flanges at the ends thereof arranged with the ears in one section disposed in overlapping relation with the ears in the other section and one of the ears of each section having a tubular extension engaging through an apertured ear of the other section and riveted thereagainst, said sections engaging over the bottom edges of the wooden case with the inner and outer flanges projecting over the inner and outer faces of the side and end walls of the case respectively and the bight portion overlying the bottom edge of the case, a cross brace disposed between the overlapping ends of said sections, and rivets extending through said overlapped ears and said tubular extensions and the ends of said brace for securing the sections and the cross brace to the wooden case.

2,643,019

TOOL FOR UPSETTING INTERNALLY THREADED RIVETS

Homer E. Wilt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 13, 1950, Serial No. 155,663
2 Claims. (Cl. 218—19)



1. A tool for upsetting hollow internally threaded rivets, said tool comprising a tubular body having at one end thereof an apertured anvil for engaging against a rivet, a threaded draw rod extending through said anvil to engage the threads of the rivet, a plunger slideably mounted in said body for rotating said draw rod, and stabilizing means engaging said plunger to resist accidental movement thereof, said stabilizing means comprising a retainer on said body hav-

ing an annular groove about said plunger and open toward the face of said plunger, resilient ring of rubber material within said groove and at all times stretched about said plunger, said ring being round in cross section and having, in an unstretched condition before assembly with the other parts of the tool, an internal diameter less than the diameter of said plunger and contacting about said plunger, said groove providing clearance about said ring to permit slight rolling movement thereof, said resilient ring normally providing limited resistance to sliding movement of said plunger.

2,643,020

SOFT GLASS AND COMPOSITE ARTICLE

Robert H. Dalton, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application March 4, 1946, Serial No. 651,818
1 Claim. (Cl. 220—2.1)



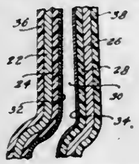
An electric lamp comprising a concave vitreous reflector portion having an inner surface with a reflecting coating, a translucent vitreous cover portion hermetically sealed to the rim of said reflector portion and forming an enclosure therewith, one of said portions having a groove receiving vitreous material having a softening point considerably lower than that of the parts sealed together, the other having a boss received in said groove and embedded in said vitreous material of considerably lower softening point.

2,643,021

HEAT INSULATING CONTAINER

Ephraim Freedman, Brooklyn, N. Y., assignor of one-half to Ezekiel J. Jacob, Brooklyn, N. Y.

Application May 24, 1950, Serial No. 164,009
4 Claims. (Cl. 220—9)



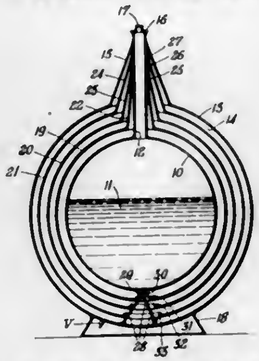
2. An unbreakable heat insulating container comprising in combination, an outer jacket consisting of a solid gas-impermeable sheet material; a first layer consisting of a plastic material and arranged on the inside of said outer jacket so as to cover substantially the entire inner surface of said outer jacket; an inner jacket consisting of a solid gas-impermeable sheet material arranged inside and spaced apart from said first layer; a second layer consisting of a plastic material and arranged on the outside of said inner jacket so as to cover substantially the entire outer surface of said inner jacket, said first and second layers being spaced apart and defining an evacuated gap between themselves; a third layer consisting of a material having an appreciably lower heat conductivity than said outer jacket and arranged on the outside of said outer jacket so as to cover substantially the entire outer surface of said outer jacket; a fourth layer consisting of a material having an appreciably lower heat conductivity than said inner jacket and arranged on the inside of said inner jacket so as to cover substantially the entire inner surface of said inner jacket; and radiation-reflecting layers arranged, respectively, on the inner side of said first layer and on the outer side of said second layer.

2,643,022

RADIATION SHIELD SUPPORTS IN VACUUM INSULATED CONTAINERS

William D. Cornell, Buffalo, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application August 15, 1947, Serial No. 768,859
5 Claims. (Cl. 220—15)



2. In a vacuum-insulated container having an inner vessel for holding a cold fluid such as a liquefied gas, an outer shell and an intervening vacuum space, a supporting means comprising a vertical neck tube extending inwardly from said outer shell to said inner vessel so that there is a temperature gradient along said supporting means when the shell is exposed to a preselected ambient atmospheric temperature and said inner vessel is at the temperature of said cold fluid, at least one highly reflective radiation shield interposed in said vacuum space, means securing such radiation shield to said supporting means at a region along the supporting means where the temperature is substantially the same as the temperature assumed by the shield intermediate said ambient atmospheric and cold fluid temperatures so that substantially no heat is conducted by the shield-securing means, and side-sway controlling means comprising a plurality of angularly disposed members having upper ends secured together and legs extending to the outer shell, said shield having an opening about said angularly disposed members providing a limited degree of clearance between the shield and said angularly disposed members.

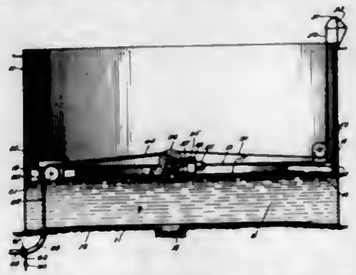
2,643,023

HOSE DRAIN FOR FLOATING ROOF TANKS

Frederick D. Moyer, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois

Application May 19, 1951, Serial No. 227,189
9 Claims. (Cl. 220—26)

1. In a storage tank having a floating roof, drainage means for the roof comprising, a drain hose extending between the roof and the tank bottom, a drum rotatably mounted on the roof, the upper portion of said hose being secured to said drum for reeling thereon and the lower end being connected to a drain outlet in the bottom of the tank, means for conducting liquid from



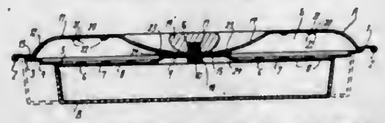
the top side of the roof to said drain hose and means for rotating said drum with vertical movement of the roof to maintain said drain hose substantially taut between the tank bottom and the drum.

2,643,024

VENTED COVER FOR COOKING VESSELS

Richard B. Cronheim, St. Louis, Mo.

Application November 28, 1952, Serial No. 323,077
2 Claims. (Cl. 220—44)



1. A venting cover for a cooking utensil comprising a bottom member including a raised central portion, an intermediate portion having apertures therein, and a marginal portion adapted to engage a cooking utensil, a top member including a depressed central portion engaging the central portion of said bottom member, said depressed central portion having an aperture in the bottom thereof positioned outwardly of the central portion of said bottom member to allow fluid poured into the depressed central portion of the top member to flow into the utensil, an intermediate portion spaced from said bottom member and having apertures therein arranged out of alignment with the apertures in said bottom member, and a marginal portion engaging the marginal portion of said bottom member, and means extending through said central portions for securing said top and bottom members together.

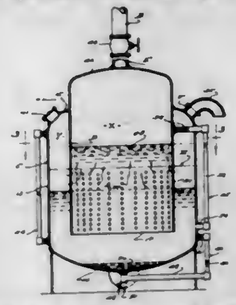
2,643,025

CONTROL FOR CLOSED VESSELS

David B. Bell, Long Beach, Calif.

Application August 1, 1949, Serial No. 107,844
4 Claims. (Cl. 220—85)

1. A control for a closed liquid carrying vessel including, a closed vertically disposed tank confining a fixed charge of control liquid, the tank being round in cross-section, an annular partition in the tank concentric therewith and extending downwardly from the top of the tank into the control liquid and dividing the interior of the tank into two vertical chambers of equal cross sectional area, and a duct from the top of one chamber to the top of the vessel, the top of the other chamber being open to atmosphere, the partition having a lower normally submerged foraminous portion terminating immediately



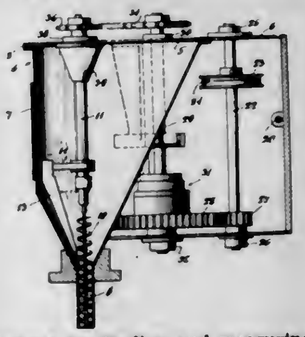
below the normal level of control liquid and having an imperforate upper portion continuing from the lower portion to its upper end.

2,643,026

TIMER CONTROLLED APPARATUS ADAPTED TO FEED AND MEASURE MATERIALS

Francis A. Craig, Seneca Falls, and John H. Garvey, Brooklyn, N. Y., assignors to Cragar Packaging Co., Inc., Brooklyn, N. Y., a corporation of New York

Application April 2, 1947, Serial No. 739,024
5 Claims. (Cl. 222—70)



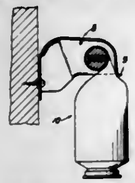
1. A machine for feeding and measuring materials, comprising the combination of a rotatable feed screw, driving means to rotate said screw for feeding material, coupling means including a normally rotatable member operatively connected with the driving means and a movable member operatively connected with the feed member and movable into and out of engagement with the rotatable member for operatively connecting and disconnecting the driving means and the feed screw, a first electrical timing device operatively connected with said movable member of the coupling means to determine the time period during which the coupling means and driving means are connected and said feed screw is rotated, a second electrical timing device operatively connected with said movable member of the coupling means to determine the time period during which the coupling means and driving means are disconnected and said feed screw is not rotated, and electrical means so interconnecting said first and second electrical timing devices that either one automatically initiates operation of the other upon reaching substantially the end of its respective time period.

2,643,027
UNIFORMLY COLLAPSIBLE TUBE
Mearl M. Fink, Toledo, Ohio
Application July 26, 1947, Serial No. 763,801
2 Claims. (Cl. 222—92)



1. A tube for packaging dispensable material, said tube comprising a one-piece relatively thin wall of pliable non-elastic permanently deformable material capable of being rolled upon itself to expel the contents of the tube; and a pair of integral reinforcements extending longitudinally along substantially diametrically opposite sections of said tube, said reinforcements comprising stiffening ribs formed from the material of said tube wall and extending inside and outside of said tube to form longitudinal relatively stiff inert bearings permanently deformable to uniformly roll the non-elastic pliable intervening wall portions of said tube upon itself and retaining the same substantially in said rolled up position.

2,643,028
DISPENSER FOR COLLAPSIBLE TUBES HAVING A SLOTTED ROLLER AND A ROUNDED EDGE COOPERATING THEREWITH
Joseph S. Clark, Sherwood Forest, Md.
Application September 14, 1950, Serial No. 184,842
2 Claims. (Cl. 222—97)



1. Means for supporting and compressing a collapsible tube, comprising a housing having top, side and end walls, and open at the bottom, each end wall having a bearing, a slotted roller journaled in said bearings, the top wall having a slot with a rounded edge at one side of said slot, and one of the side walls having a rounded edge, whereby a collapsible tube may be inserted either upwardly through the open bottom, or downward through said slot into the slotted roller, the rounded edges cooperating with the roller to expel the contents from the tube.

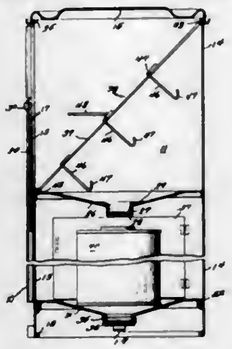
2,643,029
TUBE HOLDER AND DISPENSER WITH PIVOTALLY MOUNTED TUBE-SQUEEZING MEMBER
William John Chapman, San Antonio, and Warren Emanuel Reitz, La Feria, Tex.
Application January 11, 1951, Serial No. 205,502
5 Claims. (Cl. 222—103)

1. A squeezer device for collapsible tubes consisting of, a base plate, two oppositely disposed side walls extending from said base plate, said side walls each being apertures, an elongated tube squeezing member running lengthwise of said base plate and overlying the same when in closed position, said tube squeezing member being provided at one end thereof with a rounded portion having pivot pins extending from the opposite sides thereof for engagement in the apertures in said side walls so that said tube squeezing member is adapted for pivotal movement, said apertures being larger than said pivot pins to permit said tube squeezing member to have some lengthwise movement, the ends of each of said pivot pins being beveled to aid in engaging the pivot pins to the side walls, the other end of said tube squeezing member being curved away from said base plate, said base plate being provided with



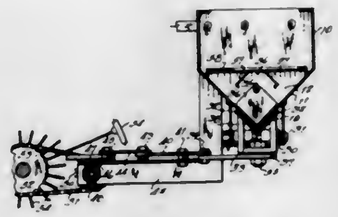
a recessed portion underlying the rounded portion of said tube squeezing member, said base plate having an end wall extending therefrom, said end wall being apertured to receive the closure cap of a tube therethrough, said base plate being apertured at the end thereof opposite said end wall, said apertures extending through said base plate at an angle from the perpendicular, means engaging through said apertures in said base plate to secure tube squeezer device to a support.

2,643,030
OIL RECOVERY STAND
Omega K. Lyon, Atlanta, Ga., assignor, by mesne assignments, to Gates Manufacturing Corporation, a corporation of Illinois
Application January 26, 1950, Serial No. 140,679
6 Claims. (Cl. 222—112)



1. Apparatus for the recovery of lubricating oil from opened oil cans comprising, in combination, a cabinet, a rack supported within the cabinet and adapted to support opened cans during the draining of residual oil therefrom, said rack comprising a frame, a series of substantially parallel can supporting bars extending across the frame and spaced from each other a sufficient distance to receive a can endwise therebetween, and spaced rods secured to the bars and depending therefrom, each of said rods having an upwardly directed hook at its lower end adapted to supportingly hook under the lower side edge of a can at its drain opening, said supporting bars and hooks co-acting to hold the cans in an inclined position for draining.

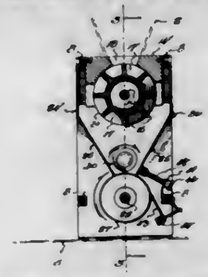
2,643,031
FERTILIZER DISTRIBUTOR
Jefferson R. Lowry, Fort Worth, Tex.
Application December 31, 1949, Serial No. 136,350
4 Claims. (Cl. 222—177)



3. In a lime and fertilizer spreader, in combination, a wheeled carriage having a hopper supported thereon, the said hopper having sides converging downwardly defining a substantially V-shaped trough in the bottom of said hopper, a series of spaced openings in the bottom of said trough, an angular plate, substantially V-shaped in transverse section, arranged beneath and in reciprocable sliding contact with said trough, ports in said angular plate conformable to and capable of registering with the openings in the bottom of said trough, a series of vertically arranged, longitudinally spaced flat rectangular plates arranged diagonally and transversely of said trough interiorly thereof, a shaft rigidly connecting the said plates and said V-shaped angular plate, and means comprising a plate externally of one end of said hopper connecting said V-shaped angular plate and said angular plates in an integral agitating unit, and means operatively connecting said unit with the wheels of said carriage whereby to impart a reciprocating motion to said agitating unit as said carriage is advanced.

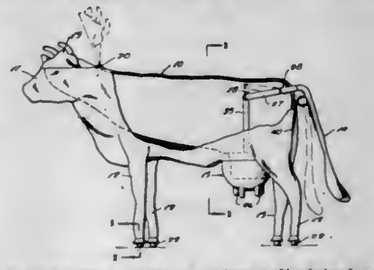
2,643,032
POWDER DISPENSER AND DISTRIBUTOR
Richard F. Berndt, Racine, Wis., assignor to Virkotype Corporation, Racine, Wis., a corporation of Virginia
Application September 30, 1949, Serial No. 118,831
2 Claims. (Cl. 222—254)

1. In combination with a rotary valve for delivering substantially dry powder from a hopper, a distributing mechanism comprising an auxiliary hopper positioned below said delivery valve and having a bottom discharge opening, a driven, smooth surfaced feed roller mounted immediately below the bottom opening of said auxiliary hopper for positively discharging powder from said hopper, and a right and left hand worm positioned in said auxiliary hopper immediately above said feed roller for distributing powder over the surface of said feed roller, said worm being substantially parallel to the axis of the roller and



being substantially equal in length to the length of the roller.

2,643,033
LIQUID DISPENSER
Robert B. Miscione, Brooklyn, N. Y.
Application December 2, 1949, Serial No. 130,668
1 Claim. (Cl. 222—365)

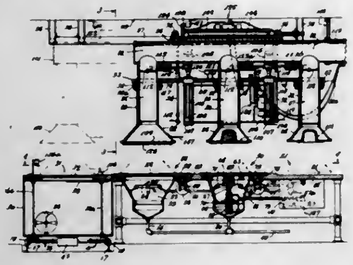


In a measuring valve, a hollow cylindrical valve body open at its ends, one end of said valve body being formed with a valve seat, a spider bearing fixed in and extending across the interior of the body and spaced from the ends of the body, a valve stem extending axially through said body and slidably supported through said spider, said stem being formed with first and second valve pistons spaced therealong and positioned at opposite sides of said spider, the sidewall of said valve body being formed with circumferentially spaced ports located close to the end of the valve body remote from said valve seat, said second valve piston being slidably engaged with the sidewall of said cylindrical valve body and said first valve piston being engageable with said seat, said valve pistons being arranged on the valve stem so that with said first valve piston in a first position in engagement with said seat said second valve piston is below said ports remote from said valve seat and in a second unseated position of said first valve piston said second valve piston is above the ports nearer to the valve seat, the ports being unoccluded by said second valve piston except in the passing of said second valve piston between the two positions of said first valve piston.

2,643,034
METHOD OF AND MEANS FOR MAKING HAT BODIES
George T. Birdsall, Bethel, Conn.
Application June 21, 1950, Serial No. 169,477
28 Claims. (Cl. 223—7)

1. The method of making a hat body from a substantially flat felt pad, which includes the

steps of applying opposing pressures to outer portions of said pad to hold said portions in predetermined relative positions, applying pressure to the center portion of the pad in the direction of one of said opposing pressures to displace



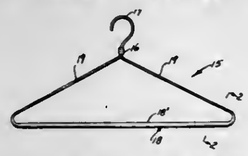
said portion laterally with respect to the outer portions and outside of the plane of said outer portions, agitating the pad, and applying heat and moisture to the pad, all simultaneously, for the purpose of forming a crown in the pad.

2,643,035
TIE PACK
Barron H. Perry, Long Beach, N. Y.
Application September 25, 1950, Serial No. 186,582
5 Claims. (Cl. 223—83)



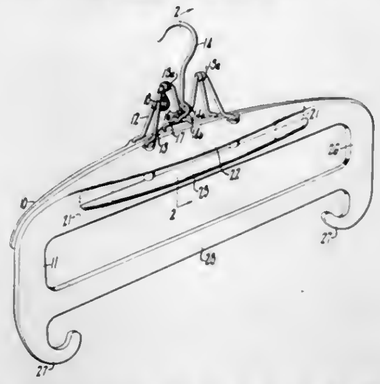
1. In a tie holder, an elongated generally rectangular flat base about which a necktie may be doubled, first and second identical clamping members, means mounting said clamping members at one end of said base and upon opposite sides thereof for pivotal movement between their ends about parallel offset axes transversely of said base, corresponding ends of said members being formed with clamping edges engaging respective sides of said base closely adjacent said one end thereof, and a single spring means engaging the other ends of both said members to urge said clamping edges into clamping contact with said base the other end of the base extending beyond said clamping members a distance approximating the length of a folded necktie.

2,643,036
GARMENT HANGER
Murray M. Schiffman, New York, N. Y.
Application January 11, 1952, Serial No. 265,938
1 Claim. (Cl. 223—88)



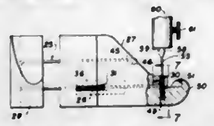
A garment hanger made of a single piece of wire bent to include a pants bar portion; the cross section of the wire used, having substantially minimum perimeter in relation to its area and the material of said pants bar portion being in flattened form along substantially its entire length and of a cross section having substantially maximum perimeter in relation to such area; said pants bar portion presenting an upper convex surface which is substantially broader than the width of the wire constituting the remainder of the hanger; the remainder of the wire constituting the hanger remaining intact in its original cross-sectional shape.

2,643,037
COAT HANGER
Grace M. Clover, San Jose, Calif.
Application July 29, 1949, Serial No. 107,479
1 Claim. (Cl. 223—91)



A hanger comprising a pair of opposed hanger elements for holding a garment therebetween, said elements having their upper surfaces at substantially the same elevation, each of said elements along said surfaces including a rib to stiffen same and increase the transverse dimension of the hanger to better support a coat, said ribs extending outwardly in opposite directions from the meeting plane of said elements, and clamping means coacting with and carrying said elements.

2,643,038
UNIVERSAL NEEDLE THREADER
Julian Seth Kahn, New York, N. Y.
Application December 12, 1949, Serial No. 132,451
14 Claims. (Cl. 223—99)



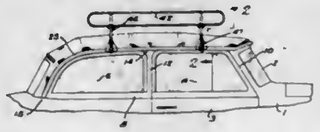
1. A needle threader of the character described, comprising a body member having a vertical, needle-receiving hole the diameter of which throughout is at least as great as the diameter of a needle which is to be threaded, formed to extend through and through said body member, a needle-engaging barb member slidably mounted in said body member for horizontal movement diametrically across said hole and having one end extending out of and beyond the body member, and a finger-piece connected to said extending end of said barb member for withdrawing the barb member from across said hole.

2,643,039
GUITAR AND SLING COMBINATION
Samuel Robert Sottile, Patton, Pa.
Application August 17, 1949, Serial No. 110,786
5 Claims. (Cl. 224—5)



1. A sling for a guitar comprising a shoulder strap adapted to be disposed across the shoulder of a player, and having at one end means for attachment to the body of a guitar, and a compressible wedgelike securing means carried at the other end of said strap for wedging between the lower neck and the guitar body.

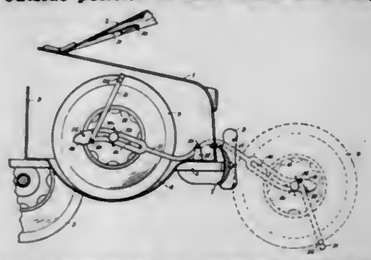
2,643,040
LUGGAGE CARRIER FOR AUTOMOBILE TOPS
Terence G. Hare, Detroit, Mich., assignor to Miller Manufacturing Co., Detroit, Mich., a corporation of Michigan
Application November 6, 1951, Serial No. 255,055
2 Claims. (Cl. 224—42.1)



1. In a luggage carrier for the top of an automobile which has a drip trough extending longitudinally along each side of and near the top, support means for luggage adapted to be positioned above the top, said support means having downwardly extending tubular supporting legs, a plurality of supporting members, one for each leg, each fashioned from sheet metal and having a tubular upper portion for telescopingly fitting within a downwardly extending supporting leg, a lower body portion substantially of triangular shape with the apex at the intersection with the upper portion, the lowermost part of the body portion being relatively long and blade-like for fitting in the drip trough to thereby distribute the load on the drip trough over substantially the length of the said lowermost part, and a shoulder substantially at the intersection of the tubular upper portion and the triangularly shaped body portion upon which the tubular supporting leg rests.
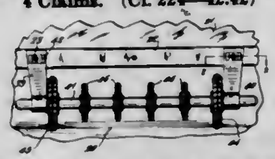
2,643,041
SPARE TIRE MOUNTING FOR AUTOMOBILES
Chester L. Lundgren, Bonaparte, Iowa
Application July 21, 1950, Serial No. 175,179
4 Claims. (Cl. 224—42.22)

1. In combination with a vehicle having a load carrying space, a spare wheel and tire mounting frame pivoted at one edge of said space for rotary motion in a vertical plane into and out of said space, a tire carrying spindle releasably engageable with said mounting frame, said spindle being removable from said mounting only in the outside position of said frame with respect



to said space, spring clip means on said spindle for engaging said wheel and tire, and a swinging operating handle attached to the end of said frame opposite said pivoted point.

2,643,042
ARTICLE RETAINING MEANS FOR VEHICLE INSTRUMENT PANELS
Michael Mayer, Cleveland, Ohio
Application June 23, 1950, Serial No. 169,873
4 Claims. (Cl. 224—42.42)

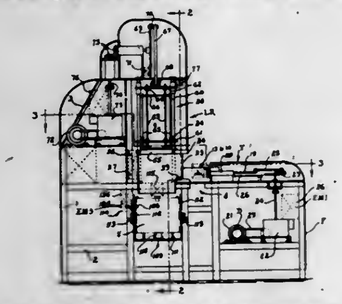


1. A device for preventing displacement of articles resting on the upper surface of the instrument panel of a motor vehicle having a windshield provided with an interior molding strip secured in place by headed fasteners, the said device comprising a pair of substantially parallel flexible members each apertured adjacent one end, an apertured flanged member for each of said flexible members with the apertured portion of each flanged member disposed in the aperture of one of said flexible members respectively and receiving one of said molding strip fasteners therethrough, a rigid rod connected with the other end of each of said flexible members, and a plurality of disk-like members frictionally engaged on said rod whereby articles placed on said instrument panel within the area thereof enclosed by said flexible members and said rod are retained from displacement.

2,643,043
AUTOMATIC CASE FILLING MACHINE
George Joseph Okulitch and Igor V. Zosulin, Vancouver, British Columbia, Canada
Application March 25, 1949, Serial No. 83,332
In Canada February 15, 1949
9 Claims. (Cl. 226—14)

1. A machine for filling cases with containers comprising a supporting frame work, a receiving area for the preliminary assembly of containers conveyed to the machine from previous operations consisting of a space in the frame work for the reception of a delivery conveyor, a container holding and suspending device capable of vertical movement located adjacent to said receiving area holding a quantity of containers equivalent to the capacity of the case and grouped in parallel rows symmetrical with the arrangement of containers in a filled case, jaws associated with the suspension of the holding device to releasably

secure the containers, vertical motion imparting mechanism associated with the suspension and holding device initiated by the act of filling the device to capacity with containers, whereby a continuously operating motor intermittently connected through a crank system reciprocates the device through one complete cycle, said vertical motion imparting device comprising a wheel rotating about a horizontal axis and carrying a pin on its periphery, said pin engaging a slotted bar and producing a crank action, said crank action producing said cycle, a transfer device acting transversely of the receiving area comprising a horizontal bar disposed parallel to said conveyor and on the side thereof opposite said holding and suspending device said bar capable of reciprocal motion across said conveyor and back again thereby pushing the aligned containers into said holding and suspending device, said recip-



rocal motion being created by a continuously operating source of power intermittently connected through a crank system to the pushing face to create one complete cycle of reciprocal motion, and initiated by the collection of a predetermined number of containers in the receiving area, a conveyor for the delivery of empty cases and the removal of filled cases located below said container holding device, retarding and holding means to position an empty case in the downward path of the container holding means, means associated with the container holding device to open the holding jaws as the containers are lowered into the case. further means associated with the jaws to prevent premature closing of the jaws about the released containers. means associated with the suspension and holding device, to release the filled case as the suspension and holding device returns to the loading position.

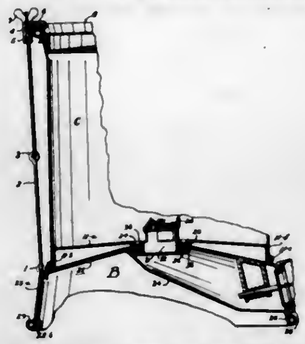
2,643,044

GREASE GUN LOADING PAIL BASE FOR GREASE CONTAINERS WITH CUTTER AND INTERLOCK MEANS FOR SAID CONTAINERS

Edwin P. Sundholm, Albert City, Iowa, assignor to Our Savior's Evangelical Lutheran Church, Albert City, Iowa, a corporation of Iowa

Application July 24, 1947, Serial No. 763,226
4 Claims. (Cl. 226—128)

1. Lubricant-dispensing apparatus for dispensing relatively viscous fluids through the bottom of a top-vented thin-walled original vendable merchandising container, said apparauts comprising a base constructed and arranged detachably to receive and engage an original vendable merchandising container containing relatively viscous fluid, said base having a bottom-portion adapted to rest on a floor or similar generally horizontal surface, and an upper container-receiving portion constructed and arranged to hold a generally cylindrical container in generally upright position and including an outer peripheral container-seat adapted to receive the bottom beaded peripheral seam of a container, and an inner fluid-sealing seat disposed generally concentrically with the outer peripheral container-seat, an inlet-opening through said upper container-receiving portion within said fluid-sealing seat, a suction-receiving socket on the side of said base for sealingly receiving and for making quick-attachable and quick-detachable engagement with the intake end of the barrel of a grease-gun or similar suction-producing device,



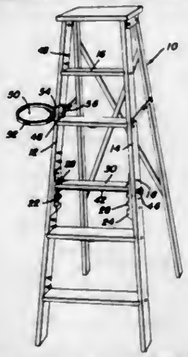
a single conduit extending through said base and connecting said inlet-opening with said suction-receiving socket, a cutter adjacent said inlet-opening and a plurality of container-securing means carried by said base near the outer periphery thereof, said container-securing means constructed and arranged to engage the uppermost edge of the container when the bottom beaded peripheral seam of said container is supported by and resting upon the outer peripheral container-seat, said container-securing means constructed and arranged to contract and to tension the container against the container-seat and the fluid-sealing seat of said base.

2,643,045

STEPLADDER

Julian M. Renfro, Wheeler, Oreg.

Application April 16, 1951, Serial No. 221,167
2 Claims. (Cl. 228—58)



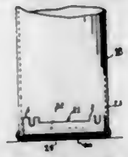
1. In a stepladder of a predetermined height comprising a pair of divergingly opposed rails, a plurality of steps disposed between and interconnecting said rails, at least one of said steps being freely insertable and removable, and a pair of brackets on the inner sides of said rails in alignment with each other, said brackets having a plurality of transverse, longitudinally equidistantly spaced keeper seats, said one step being selectively inserted in one of said seats in each of said brackets.

2,643,046

MULTIPLE UTILITY CLAMP AND BRACKET

Joseph A. Humphreys, Cohasset, Mass.

Application January 13, 1949, Serial No. 70,689
2 Claims. (Cl. 229—6)



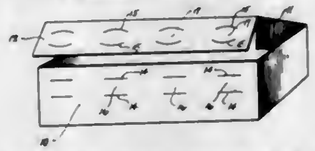
1. In combination with a container having a closure on one side providing a cover flap, a supporting stand for raising said container from a supporting surface comprising a pair of bracket members each having a set of long prongs extending substantially in the same direction and short thin leg elements in a plane at right angles to said prongs, said brackets being initially attached to said container with the leg elements inserted between the container and cover flap, and the long prongs extending along the sides of the container flush thereto, said bracket being adapted to be removed from the container and serve as a support therefor with long prongs inserted between the container and cover flap at the side edges of the container and the legs projecting outwards and downwards from said side edges at each side of the container whereby said container is raised from the supporting surface.

2,643,047

INTERLOCKED HINGED CLOSURE

Joseph A. O'Reilly, El Cerrito, Calif., assignor of one-half to William P. Hooker, Redwood City, Calif.

Application May 1, 1948, Serial No. 24,576
1 Claim. (Cl. 229—44)



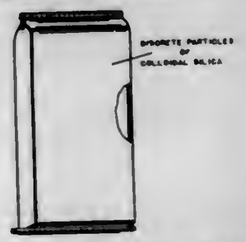
A folded blank carton comprising a body having a front wall and a hinged cover having a flap extending over and overlying the front wall when the cover is in closing position, means interconnecting the flap with the front wall to effect the closing and locking of the carton, said means comprising a plurality of pairs of parallel coextensive straight longitudinally and vertically spaced apart slits in the front wall and a plurality of pairs of arcuate longitudinally and vertically spaced apart slits in the flap with the arcs of each pair of slits extending outwardly with respect to a common point between each pair of slits and being on arcs taken from points in the body of the flap between each pair of slits, each pair of arcuate slits forming a pair of oppositely extending arcuate tabs in the body of the flap between each pair of arcuate slits, the arcuate slits having terminal ends with the distance between the terminal ends substantially equal to the length of the straight slits in the front wall and the width of the tabs being substantially equal to the length of the straight slits, the arcuate tabs of each pair being inserted through the respective pair of straight slits to effect the closing of the carton, the tabs and straight slits being substantially co-extensive, whereby a secure locking of the cover flap to the front wall is effected throughout their lengths and all relative movement between the cover flap and the front wall is substantially prevented.

2,643,048

PAPER CONTAINER WITH SLIP RESISTANT COATING

Ivan V. Wilson, Wakefield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application September 20, 1947, Serial No. 775,386
7 Claims. (Cl. 229—53)



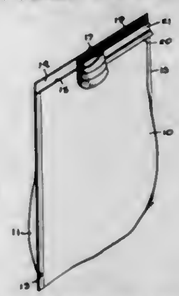
1. A packaging container characterized by a slip resistant surface and having side walls and a top and bottom closure composed of an outer paper layer, said container having a discontinuous film of discrete particles of colloidal silica on the outer surface of said outer paper layer, said silica being present in amounts of 0.01 to 5% based on the weight of the outer paper layer.

2,643,049

QUICK OPENING BAG

Harold L. Bartelt, Rockford, Ill.

Application September 11, 1951, Serial No. 246,104
7 Claims. (Cl. 229—62)



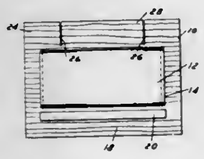
1. A bag comprising two panels with opposed surfaces composed of material fusible above a predetermined temperature, one of said panels being longer than the second panel to provide a flap projecting beyond the end of the second panel, heat seals joining said panels along the

side edges of the bag, a separate strip of material having a surface composed of material different than said first material and fusible at a temperature lower than said predetermined temperature, said strip lying against the inner surface of said flap and the adjacent outer surface of said second panel, a heat seal joining the intermediate part of said strip to said second panel along the full width of the latter while leaving the inner edge portion of the strip unsealed and free to form a pull tab, and a heat seal joining the outer edge portion of said strip to said flap along the full width of the bag whereby to close the open bag end.

2,643,050
PROTECTING WRAPPER FOR AUTOMOBILE DOORS

Michael P. Williams, Ferndale, Mich., assignor to Cadillac Products, Inc., Ferndale, Mich., a corporation of Michigan

Application March 20, 1951, Serial No. 216,550
8 Claims. (Cl. 229—87)



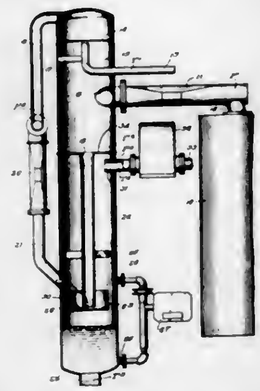
1. A cushioning pad assembly for protecting articles in shipment comprising, in combination, a flexible and stretchable sheet of paper forming the base layer of the assembly, a relatively flat bag of tear resistant paper entirely surrounding and enclosing a relatively thick mass of fibrous material, said bag being secured to the upper surface of the base layer and being so disposed thereon that at least one marginal portion of the base layer projects beyond one side edge of the bag, and a member secured to the upper surface of said projecting marginal portion in spaced relation to the bag and composed of corrugated cardboard strips compactly assembled together.

2,643,051
TWO-STAGE CONDENSER

Frank B. Doyle, Raymond, Ill., assignor to Guardite Corporation, a corporation of Delaware

Application December 18, 1950, Serial No. 201,458
1 Claim. (Cl. 230—104)

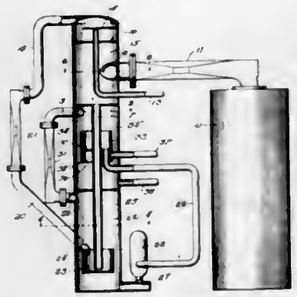
A two-stage vacuum condenser comprising a single cylindrical shell having a separator plate intermediate its ends forming a first chamber immediately adjoining a second chamber within the shell, the first chamber being above the second chamber; a water inlet to the first chamber for supplying all of the condensing water used in the condenser; a reservoir in the second chamber for holding a sealing liquid pool; gravity drain means leading from the bottom of the first chamber directly into the sealing liquid pool in the reservoir for conducting the water from the first chamber to the second chamber; steam ejection means for supplying steam and non-condensible gases to the first chamber at a level between said water inlet and said drain means; a second steam ejection means for ejecting gases from the upper portion of the first chamber and supplying it to the second condenser chamber below the top of the reservoir, said second chamber having an upper portion for collecting gases passing through a waterfall of liquid overflowing the reservoir and removing entrained water therefrom, and an outlet in the upper portion of said second chamber for conducting said collected gases out of the second chamber; and an outlet for the condensing water in the lower portion of said second chamber.



2,643,052
THREE-STAGE CONDENSER

Frank B. Doyle, Raymond, Ill., assignor to Guardite Corporation, a corporation of Delaware

Application March 23, 1949, Serial No. 82,963
12 Claims. (Cl. 230—104)

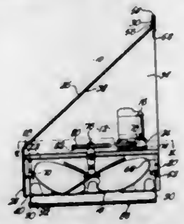


1. In an ejector system having at least three successive stages of evacuation, a three chambered condenser system, the chambers of which are connected sequentially to the outlets of the first, second and third stages of the ejection system and are provided with a single source of condensing liquid; an inlet for said liquid to the first condenser chamber, drain means below said inlet means for said liquid passing directly to the second condenser chamber, mechanical means for carrying said liquid from the second to the third condenser chamber, and means in each chamber for securing contact between said liquid and gas passing through said chamber.

2,643,053
COMBINATION FAN AND AWNING CONSTRUCTION

Charles G. Sherman, Mission, Kans., and George E. Owens, Independence, Mo., assignors, by mesne assignments, to Opal W. Chase, Mission, Kans.

Application June 7, 1950, Serial No. 166,616
4 Claims. (Cl. 230—241)

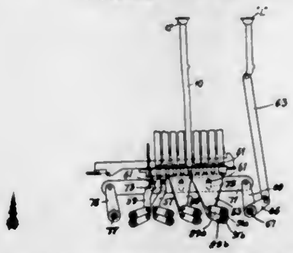


1. In air conditioning apparatus the combination of an awning having an inclined roof and a pair of spaced side walls; a perforated support joining the side walls; an elongated bracket mounted on one face of said support in spaced parallelism to said face and traversing the perforation of the support; a fan in said perforation and rotatably carried by the bracket; a prime mover on the bracket; apparatus operably coupling said prime mover and the fan; and structure adjustably receiving the prime mover on the bracket, said structure including a mounting for the prime mover slidable on the bracket and means releasably joining the mounting and the bracket, said mounting partially embracing the bracket and having guide strips resting on the bracket and slidable therealong when said means is released.

2,643,054
ARRANGEMENT IN BOOKKEEPING MACHINES

Olof Karl-Gustav Axel Hägerström, Stockholm, Sweden

Application July 23, 1947, Serial No. 762,836
In Sweden January 26, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires January 26, 1960
4 Claims. (Cl. 235—60)

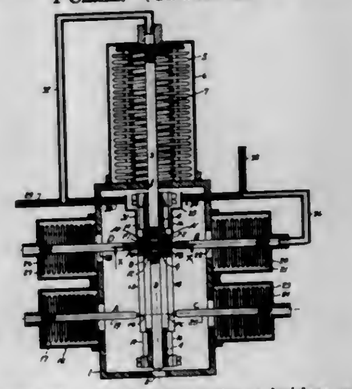


1. In a bookkeeping machine having a plurality of totalizers selectable individually or in groups and manually operated means adapted both for introduction of amounts into the totalizers and for selection of the totalizers, in combination, totalizer selection means, amount entering means, means connecting the manually operable means to said amount entering means, setting means for connecting the manually operable means to said totalizer selecting means, means for engaging selected totalizers with said amount entering means, and means operable by said setting means for preventing the operation of said engaging means during the machine cycle in which said setting means are operated and said totalizer selection effected.

2,643,055
AUTOMATICALLY BALANCED FORCE BRIDGE

Johannes Sorteberg, Bath, Pa.

Application August 26, 1952, Serial No. 306,409
1 Claim. (Cl. 235—61)

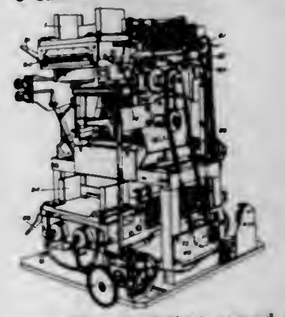


An automatically balanced force bridge, comprising two weighbeams, means for transmitting a force to each end of said weighbeams, a movable fulcrum for each weighbeam, said fulcrums being in fixed relationship to each other to move in unison along their weighbeams, means for automatically balancing the moments on one weighbeam by moving its fulcrum, and means for balancing the moments on the other weighbeam by changing the force transmitted to one end of such weighbeam.

2,643,056
APPARATUS FOR COMPARING STATISTICAL RECORD CARDS

Arthur Thomas, Wallington, and Frederick Sidney Rhodes, Thornton Heath, England, assignors to Powers-Samas Accounting Machines Limited, London, England, a British company

Application January 16, 1951, Serial No. 206,178
In Great Britain February 2, 1950
8 Claims. (Cl. 235—61.7)



1. For comparing statistical record cards, a machine comprising a first and a second sensing

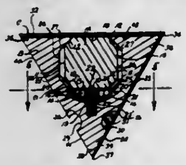
device, the sensing devices each including sensing pins for sensing data indicating perforations in record cards, said sensing devices being operable in timed relation so that one effects sensing in advance of the other, comparing mechanism to compare a data pattern sensed by the first sensing device with a data pattern sensed by the second sensing device, and to give an indication of agreement or disagreement between the data patterns compared, and transmission means for each sensing device to transmit a data pattern sensed thereby to the comparing mechanism, the transmission means for the first sensing device comprising a locked pin box and a connection box and the transmission means for the second sensing device comprising reciprocable elements located between the sensing pins of the second sensing device and the comparing mechanism, the sensing pins of the first sensing device being movable from sensing position to actuate their transmission means simultaneously with that part of the sensing movement of the sensing pins of the second sensing device during which the said reciprocable elements are actuated thereby to transmit to the comparing mechanism data patterns sensed by the sensing devices.

2,643,057
SLIDE RULE
Michael J. Quillinan, New York, N. Y.
Application March 5, 1951, Serial No. 213,927
28 Claims. (Cl. 235—70)
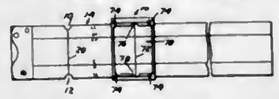


2. A slide rule comprising a scaled rod and barrel, said barrel bored along at least one face thereof, said rod retained and reciprocable in the bored portion of the barrel, the faces of said rod and said barrel arcuate and having different respective cambers, a multiarced index complementary to said faces and resiliently embracing said faces.

2,643,058
SLIDE RULE
Michael J. Quillinan, New York, N. Y.
Application July 23, 1951, Serial No. 238,044
27 Claims. (Cl. 235—70)



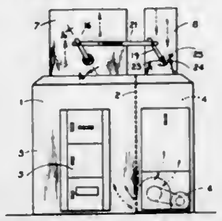
1. In an improved slide rule having an elongated substantially triangular-prismatic housing containing three faces, at least the first face of which contains an elongated open channel, an elongated slide in said channel, said slide extending throughout at least a portion of the length of said channel and being reciprocable therein, means on said housing for retaining said slide in said channel, and at least one numbered scale on each of said housing and said slide, an index means for registering coincidence between a numbered scale on said housing and a numbered scale on said slide which has a first index window extending from a point adjacent to an apex of a first and a second face to a point on said first face substantially removed from said apex, a second window joining said first window at said apex, said second window extending to a point on said second face substantially removed from said apex, means on said second face for securing said index to said housing, means on at least one of said windows for releasing said index from said secured position, and means on at least one of said windows for registering coincidence between a numbered scale under one portion of said index with a numbered scale under a second portion of said index.

2,643,059
SLIDE RULE AND CURSOR WITH HAIRLINE ADJUSTING MEANS
Paul E. Gaire, Midland Park, N. J.
Application February 19, 1952, Serial No. 272,440
7 Claims. (Cl. 235—70)



1. In a slide rule, a rule body, a cursor comprising a pair of spacers, one spacer having a tension spring adapted to contact the rule body, and the other spacer having a surface adapted to contact the rule body, a pair of windows, means fastening said windows to opposite faces of said spacers, a hairline on each window, and said spacers having vision openings therein intermediate their ends and beneath said hairlines in order to visually determine the alignment of the hairlines, said rule body having a pilot line with which to align said hairlines, and said body having openings therein with which the openings in said spacers are adapted to align.

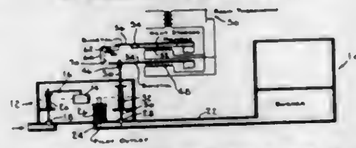
2,643,060
HEATING APPARATUS
William Hodgins, Ottawa, Ontario, Canada
Application May 20, 1949, Serial No. 94,283
1 Claim. (Cl. 236—10)



A thermostatically controlled damper structure, for a forced circulation warm air furnace or the like, comprising in combination with the furnace, a butterfly damper balanced on and secured to a longitudinally extending axis rod; a thermostat spaced from said damper and having a rotatably adjustable sleeve with a flange at one end thereof with spaced arcuate slots extending through said flange, releasable fastening means projecting through said slots and securely attaching said thermostat sleeve to said furnace in rotatably adjustable position, a coaxial shaft journalled in said sleeve and projecting through

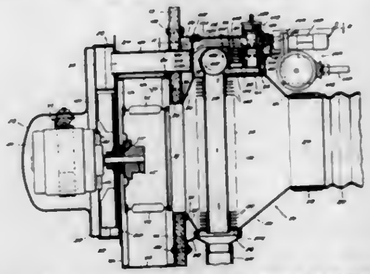
the flanged end thereof, and a bimetal helix surrounding said shaft and affixed at opposite ends to said sleeve and shaft respectively, said shaft being disposed parallel to said damper axis rod; a radial arm on said damper rod and another radial arm on said thermostat shaft; and linkage joining said radial arms comprising a slidably adjustable pair of overlapped longitudinally slotted metal straps releasably secured together by fasteners passing through the slots thereof, and pivotally connected at its outer ends to said respective radial arms.

2,643,061
FUEL CONTROL
Roy W. Johnson, Milwaukee, Wis.
Application February 9, 1950, Serial No. 143,251
17 Claims. (Cl. 236—68)



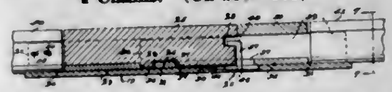
11. A thermostatic control comprising, in combination, a thermostat, a valve operator regulated by said thermostat and movable from a low flow position to a high flow position when the thermostat calls for heat, means operable to arrest movement of the operator at an intermediate position upon satisfaction of the heat demand, and means rendering said arresting means inoperative at the end of a period of time following satisfaction of the heat demand and in absence of a new demand within the period.

2,643,062
VEHICLE HEATER
Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application August 12, 1948, Serial No. 43,921
11 Claims. (Cl. 237—33)



3. In an automotive vehicle having a passenger compartment and an engine compartment, a vehicle body heater adapted to be mounted on the fire wall separating said compartments and comprising, in combination, a burner structure, a heat exchanger communicating with at least a portion of said burner structure, a housing enclosing and supporting said burner structure, a housing enclosing and supporting said heat exchanger, said housings being joined together as a unit, supporting devices for mounting said unit on the fire wall within the engine compartment, a blower assembly adapted for mounting on the fire wall within the passenger compartment, said blower assembly including separate portions for providing combustion air and ventilating air, a combustion air intake duct extending from the engine compartment through the fire wall to said blower assembly, and a combustion air supply duct extending from said blower assembly through the fire wall to the interior of said burner housing, said heat exchanger housing having an intake portion for fresh ventilating air and an outlet portion for heated ventilating air connected to said blower assembly through the fire wall.

2,643,063
RAILROAD JOINT
John A. Ross, Klamath Falls, Oreg.
Application February 2, 1951, Serial No. 209,961
4 Claims. (Cl. 238—151)

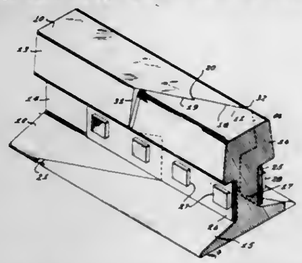


1. A railroad joint adapted to be interposed between adjacent ends of aligned rails comprising two rail joint sections having abutting rail head portions terminating in spaced relationship to the remote ends of said sections, said joint sections having recessed outwardly opening remote ends adapted to slidably receive the adjacent ends of two adjacently disposed rails for individual longitudinal sliding movement of the rails relatively to the ends of the rail joint, said rail joint sections having spaced parallel wall portions partially defining said recessed ends between which portions of the webs of the rails are disposed for longitudinal sliding movement, above which portions of the heads of the rails are disposed and supported to retain the rails against downward displacement relatively to the joint and beneath which portions of the bases of the rails are disposed to retain the rails against upward displacement relatively to the joint, one of said rail joint sections having an exposed web provided with a notched bottom edge, said other rail joint section having an opposite inner end recessed to accommodate said web, said last mentioned recess opening upwardly for application of or removal of the web through the top of said other rail joint section, and said last mentioned rail section being provided with a bottom portion provided with a longitudinally extending slot and notch for accommodating portions of the web and for interfitting engagement with the notched bottom portion of said web to retain the rail joint sections against lengthwise sliding movement relatively to one another when assembled with said web interfitting in the recessed bottom of the last mentioned joint section.

2,643,064
OBLIQUE RAIL JOINT
George A. Standfast, Jefferson City, Mo.
Application December 15, 1950, Serial No. 200,975
3 Claims. (Cl. 238—230)

1. In railway rails each having a flange, a web and a head, an oblique rail joint between the adjacent ends of rails disposed in end to end relationship comprising diagonal surfaces on each rail end disposed in spaced apart and substantially parallel planes perpendicular to the bottom surface of the corresponding flange and extending one from the side of the rail at the acute end thereof to a location adjacent a plane perpendicular to the bottom surface of said flange and including the longitudinal center line of the

rail and the other from a location adjacent the last mentioned plane to the other side of the rail, said other surface being disposed outwardly of said one surface longitudinally of said rail and there being a third surface extending between the ends of the two above mentioned surfaces adjacent said last mentioned plane and disposed in a plane perpendicular to the bottom surface of said flange and to said parallel plane,



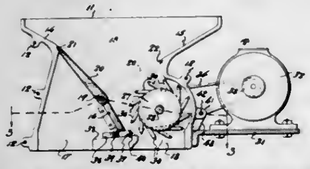
said third surface providing a shoulder extending from the bottom to the top of the rail and facing the acute end thereof, the diagonal surfaces of said adjacent rail ends being disposed in face to face relationship and said shoulders being mutually opposed in a direction to preclude sliding of said diagonal surfaces past each other when said rails are subject to elongation.

2,643,065

ICEBREAKER MILL WITH ROLL AND ADJUSTABLE BREAKER PLATE

Robert T. Clawson, Flagtown, N. J., assignor to Clawson Machine Company, Flagtown, N. J., a corporation of New Jersey

Application January 13, 1951, Serial No. 205,900
2 Claims. (Cl. 241—239)



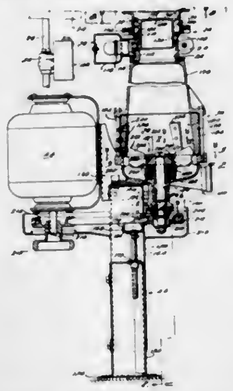
1. In ice breaker apparatus, a hopper provided with a passage through which to pass ice to be treated, a rotatable crusher roll within said hopper passage, said roll having ice pick elements projecting angularly from its periphery, a flat breaker plate opposed to the crusher roll, said breaker plate having breaker fingers spaced therealong in staggered relation to the ice pick elements of the crusher roll so as to intervene therebetween, means to slidably support said breaker plate subject to bodily movement toward and from said crusher roll, and manipulatable means mounted on the hopper for moving said breaker plate whereby to adjust the spaced relation of its breaker fingers relative to the periphery of said crusher roll, said latter means comprising a transverse rock-shaft mounted across and exteriorly of said hopper, finger knob means for manipulating said rock-shaft, lever members affixed to the ends of said rock-shaft, said breaker plate having coupling means projecting from its ends exteriorly of the hopper, the side walls of the hopper having slotways through which the coupling means extend, links connected between said lever members and coupling means, and detent means cooperative with one of said lever members to releasably hold the breaker plate in selected adjusted position.

2,643,066

GARBAGE GRINDER

Wade Lamb, Wayne, Mich., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application June 25, 1948, Serial No. 35,103
5 Claims. (Cl. 241—257)



1. In a waste disposal mechanism, means defining a chamber for comminuting waste material, means for comminuting waste material within said chamber including a rotor upon which the waste material is supported during its reduction, said rotor having a substantially radially extending opening in its upper surface and a cutter element mounted for pivotal movement through said opening between a first position in which the upper surface of said element is substantially flush with the upper surface of said rotor and a second position in which said element projects above the upper surface of said rotor for reducing said waste material, said element being mounted for pivotal movement in a substantially radial plane of said rotor about an axis passing through said element at a point radially inwardly of said rotor relative to the center of gravity of said element, and above said center of gravity the portion of said element which passes through such opening being of substantially the same shape and size as such opening.

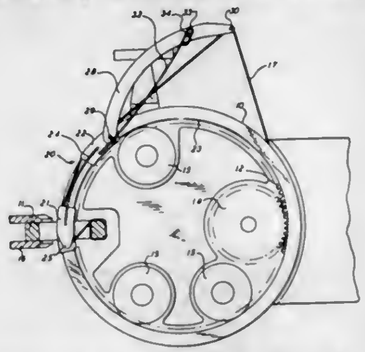
2,643,067

LOOP CONTROL FOR TOROIDAL COIL WINDING MACHINES

Henry E. Cradduck, Amesbury, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application August 10, 1951, Serial No. 241,346
7 Claims. (Cl. 242—4)

1. A wire guide in a toroidal coil winding machine having an annular shuttle, for wire to be wound on a toroidal core, driven at a constant speed through the core and having a track at one side thereof, the wire guide comprising a slider mounted on the track and having a groove for the wire at its leading end to remove successive lengths of wire from the shuttle and guide them about the core, and an element swingably connected at its leading end to the slider and having its trailing end formed to engage the lengths of wire, whereby the element will be urged to swing outwardly by centrifugal force to



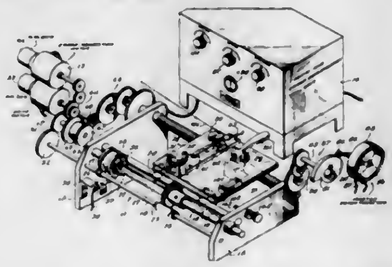
maintain the portions taut throughout the formation of the convolutions thereof about the core.

2,643,068

POTENTIOMETER WINDER

Herbert Harris, Jr., Cedarhurst, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application June 9, 1944, Serial No. 539,412
4 Claims. (Cl. 242—9)



1. In a potentiometer winder having winding form rotating means and lead screw driving means, with means for varying the speed ratio between said winding form rotating means and said lead screw driving means to produce a predetermined resistance function of wire wound on the winding form, an adjustable gain amplifier for driving said ratio adjusting means, a generator coupled to said lead screw and adapted to produce an output that depends on the speed of said lead screw, and means for applying said output to said amplifier as a bias for varying the gain of said amplifier.

2,643,069

HOLDER FOR TOILET PAPER AND PAPER TOWELS

Arvid F. Carlin, New Rochelle, N. Y.

Application March 7, 1950, Serial No. 148,069
1 Claim. (Cl. 242—55.2)

In combination with a housing, a lug member comprising a doubly bent spring, formed with an eyelet, a pintle engaging the latter, one end of said spring projecting outside the housing, whereby to engage a roll of toilet paper, the other end of said spring being disposed within said



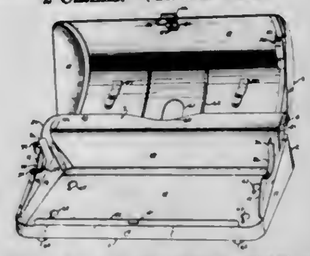
housing, and a spring arranged in the latter and actuating said other end.

2,643,070

CABINET FOR DISPENSING SHEET MATERIAL

Frank L. Broeren, Neenah, Archie S. Kruger, Green Bay, and Vincent C. Jones, Appleton, Wis., assignors to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin

Application June 5, 1951, Serial No. 229,976
2 Claims. (Cl. 242—55.5)



1. A cabinet for dispensing sheet material from a roll wound on a hollow core provided with a flanged sleeve secured to each end of said core comprising a base having opposed side walls, a cover having a cutting edge, a guide carried by said base disposed beneath said cover, said guide having a cut out area and said cover having an opening immediately above the cut out area of said guide whereby the sheet material overlying said guide may be grasped, resilient fingers mounted on the inside surface of said cover positioned and arranged to frictionally engage sheet material overlying said guide, a partial bearing formed in one side wall adapted to receive a flanged sleeve provided at one end of said hollow core and a boss secured to said side wall adjacent said bearing in a position whereby said flanged sleeve is retained in said bearing between said boss and said bearing, a second partial bearing disposed in the other side wall adapted to receive a flanged sleeve carried by the other end of said hollow core and a brake member associated with said bearing adapted to frictionally engage said sleeve and to retain said flanged sleeve in said bearing.

2,643,071

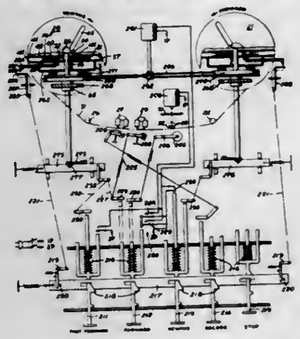
MAGNETIC TRANSDUCING APPARATUS

Alfred L. W. Williams, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application March 7, 1947, Serial No. 732,970
4 Claims. (Cl. 242—57)

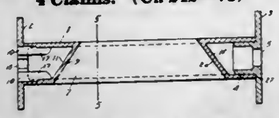
1. In a magnetic record transducing apparatus for transducing magnetic records on an elongated permanently magnetizable record track moving along a guide path in magnetic linkage with a magnetic transducing head, the combination of: a support; at least one generally reel-like track holder having storing space into which the record track may be wound and stored as a succession of coil turns and from which it may be unwound

for movement along the guide path; means revolvably mounting said track holder on said support; power means including control elements for controllably establishing power connections to said track holder which cause said track to be impelled to unwind from the track holder; said control elements including a trip member mounted on said track holder and movable between an outward position in which it is held by a sensing portion of the trip member in engagement with a portion of the record track positioned within the storing space of said holder, and an inward position in which said sensing portion enters the portion of the storing space freed from a portion of



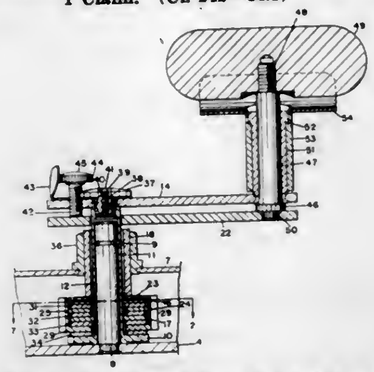
the record track during unwinding of said record track from said holder; and a limit member mounted on said support and movable from a non-trip position to a trip position in which it actuates said power means to open said power connections; said trip member having a trip projection which engages and trips said limit member to its trip position when said trip member is released to its inward position while said holder revolves in a track unwinding sense, and said trip projection having an actuating surface shaped to be engaged by said limit member and actuated thereby to deflect said trip projection away from said limit member toward the outward position of the trip member when said holder revolves in a track-winding sense.

2,643,072
FILM SPOOL AND MOLD FOR MAKING THE SAME
Harry H. Kugel, Erie, Pa., assignor to National Organ Supply Company, Erie, Pa., a corporation of Pennsylvania
Application May 31, 1946, Serial No. 673,384
4 Claims. (Cl. 242—71)



1. A film spool having a hollow cylindrical arbor with an integral turning lug flange at one end, a turning lug slot in the flange, an integral web within and extending across the arbor and axially in line with the slot, a shorter cross slot at the center of the turning lug slot, and ribs within and extending inward from the inner surface of the arbor and extending axially along the arbor to the turning lug flange in substantially direct continuation of the sides of the turning lug slot.

2,643,073
REEL
Gordon F. Bourne, Oakland, and William E. Kennedy, Hayward, Calif.; said Bourne assignor, by direct and mesne assignments, of one-third to Frank P. Adams and one-third to Robert H. Eckhoff, both of Piedmont, Calif.
Application February 4, 1950, Serial No. 142,383
1 Claim. (Cl. 242—84.5)



A fishing reel having a spool, a crank arm for rotating said spool, a friction clutch mechanism interposed between the spool and the crank arm and operable selectively to apply a desired degree of crank movement to the spool, a lever extending parallel to said crank and engaged near one end with said friction clutch mechanism to operate said friction clutch mechanism selectively to apply a desired degree of crank movement to said spool and control rotation of the spool, a fulcrum point at one end of the lever, adjacent the point of contact with the clutch mechanism, said fulcrum comprising an adjustable screw threadably mounted in the crank arm, the end of said screw being in contact with the lever and serving to provide a fulcrum which can be displaced laterally upon turning the screw, a semi-cylindrical finger grip member rotatably mounted on an end of said crank intermediate the ends of said member, and a handle secured rotatably on the other end of said lever with the underside of said handle fitting cooperatively within the confines of said semi-cylindrical finger grip member and being rotatable with said member and being movable toward and away from said finger grip member to move said lever selectively with respect to the crank arm.

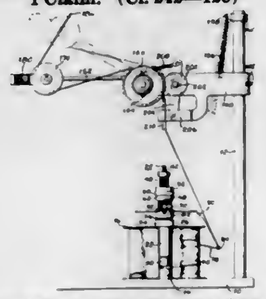
2,643,074
REEL FOR CLOTHESLINE COVERS
Helen Wodzanowski, Jersey City, N. J.
Application November 8, 1950, Serial No. 194,601
2 Claims. (Cl. 242—101)



1. A reel for a clothesline cover tape comprising a sheet metal casing including a pair of substantially semi-circular shaped sides, upper and lower mounting brackets connecting the straight edge portions of said sides, said brackets having

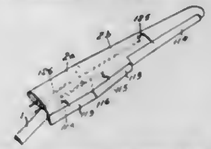
spaced slots formed therein, a sheet metal cover member shaped to conform to the configuration of the sides of the casing and formed with marginal channels within which the top, front and bottom edges of the respective sides fit, bendable ears formed on the rear free ends of the cover member for disposition through the respective slots in the mounting brackets to secure the cover member on the casing, said cover member having a slot in the front side thereof, a rotatable shaft extending transversely through the central portions of the sides and provided with means for attaching one end of a clothesline cover tape thereto, and a crank keyed on one end of the shaft for rotating the same.

2,643,075
WIRE UNREELING DEVICE
Kenneth Alden Moore, Dayton, Ohio, assignor to Harry W. Moore, Dayton, Ohio
Application May 11, 1949, Serial No. 92,540
1 Claim. (Cl. 242—128)



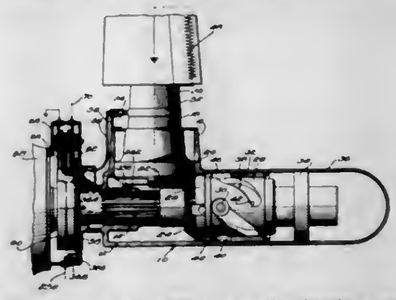
In an unreeling device for unreeling wire from a hollow spool, the combination including a core member non-rotatably mounted in the spool, said core member being provided with a spindle projecting outwardly from one end of the spool, a pair of roller bearings mounted on the spindle, said roller bearings being mounted in spaced relation from each other, one of the roller bearings being mounted in close proximity to the spool, the other roller bearing being further removed from the spool, a wire guide member, means for attaching the wire guide member to the roller bearing nearest to the spool, said wire guide member having an eye in one end thereof mounted for rotation around the spool, a friction clutch member fixedly mounted upon the outer race of the roller bearing furthest removed from the spool, a helical spring surrounding the spindle, said spring having one end attached to the means for attaching the wire guide member to the roller bearing and the other end attached to the clutch member, a second friction and floating clutch member mounted upon the spindle, said second clutch member being mounted for longitudinal movement upon the spindle, means for adjusting the second clutch member longitudinally upon the spindle, said second clutch member cooperating with the first clutch member to provide slippage, the degree of slippage being adjusted by adjusting the second clutch member, the helical spring being wound in response to the wire guide member unwinding the wire from the spool, the second clutch member slipping with respect to the first clutch member upon the spring being wound, the relative movement between the first clutch member and the second clutch member continuing after the wire guide member has stopped so as to partially unwind the spring to absorb slack in the wire to prevent snarling so as to have the wire in readiness for a succeeding unwinding operation.

2,643,076
IMPROVEMENT IN AIRCRAFT OF HIGH ASPECT RATIO
Maurice Louis Hurel, Deauville, France
Application July 25, 1946, Serial No. 686,081
In France September 5, 1945
9 Claims. (Cl. 244—13)



4. An airplane which comprises, in combination, a wing with two spans, a fuselage centrally of said spans, and bracing struts connected to the fuselage and to points on the wing nearer to the center of each span than to the root and tip thereof, each bracing strut having a substantial lift effect in level flight throughout substantially its whole length, high lift devices of low drag coefficient mounted on each span of the wing, means joined to said devices for controlling both of said devices simultaneously in the same direction, said wing, struts, and high lift devices in active position having a combined aspect ratio of at least 15 and a loading of at least 80 kg. per sq. m.

2,643,077
PROPELLER CONTROL MECHANISM
Erle Martin, West Hartford, and Calvin D. McCarthy, Manchester, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 10, 1948, Serial No. 32,244
15 Claims. (Cl. 244—134)



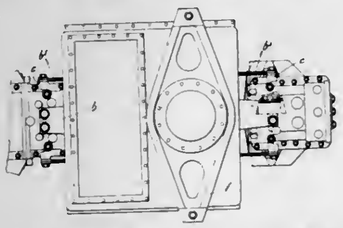
1. In combination with a propeller having controllable pitch blades, a governor for controlling the pitch of said blades within a predetermined range, manually controlled means connected with said governor and said blades for disabling control by said governor control and including means for moving said blades beyond said range and for returning said blades to said range and electrically actuated means connected with said manually controlled means and said blades and controlled by said blades for automatically disabling said manually controlled means and automatically returning said propeller to governor control when said blades pass into said range from beyond said range.

2,643,078

ELASTIC FLUID TURBINE SUPPORT

Thomas Walter Falconer Brown, Newcastle-on-Tyne, and Henry George Yates, Northumberland, England, assignors to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England

Application April 8, 1947, Serial No. 740,247
In Great Britain May 7, 1946
4 Claims. (Cl. 248—2)



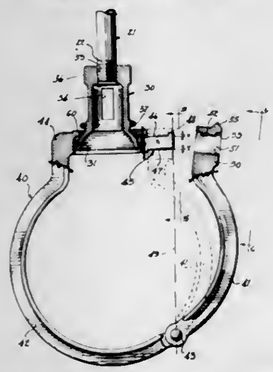
1. In an elastic fluid turbine having fixed bearing supports and a casing, casing suspension means comprising a plurality of sets of units disposed in planes parallel to one another and to the turbine axis and located on opposite sides of the said axis, each unit comprising a substantially flat metal plate extending longitudinally of the said casing to a said bearing support, and means rigidly attaching the plate to the said casing and bearing support, the plate having a pair of spaced opposite edges extending longitudinally of the turbine from the casing to the bearing support, the plate and the said pair of edges being free to move, except as restrained by the said means attaching it to the casing and bearing support.

2,643,079

HANGER FOR SUPPORTING ELONGATED OBJECTS

Raymond George Pitt, Chicago, Ill.

Application November 3, 1950, Serial No. 193,971
1 Claim. (Cl. 248—62)



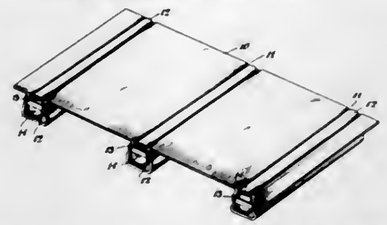
A hanger providing a pendant supporting member comprising: means defining a two-segment ring carried by said support, the first segment of said ring being hingedly connected at one end to an end of the second segment which is remote to said pendant support for effecting swinging movement of said first segment with respect to said second segment; means defining a terminal at the end of the second segment which is nearest the support having a central aperture with an annular boss, said pendant support having a bell-shaped portion projecting into said central aperture and engaged by said annular boss effecting universal movement therebetween; means defining a snap ring embracing said pendant support and engageable with portions of said terminal restricting separating movement of said pendant support with respect to said terminal; and a latching assembly detachably connecting portions of said first segment with portions of said terminal, said latching assembly comprising a lug projecting radially outwardly from said terminal into the path of movement of said first segment and having a first surface inclined in an upward outward plane with an upstanding latch stop at its outer region, a latch head on the end of said first segment adjacent said lug and having therein a substantially rectangular shaped through opening the internal surfaces of which define a counterpart of said lug and include a second inclined surface and an abutment, said lug being arranged to project through said through opening, said second inclined surface and abutment coacting with said latch stop, and the hinge connection between said first and second segments having sufficient clearance therein facilitating bodily manually raising of said first segment with respect to said second segment to effect disengagement of said abutment with said latch stop.

2,643,080

DISPOSABLE PALLET

Lawrence E. Vogel, Canajoharie, N. Y., assignor to Arkell and Smiths, a corporation of New York

Application April 19, 1949, Serial No. 88,437
3 Claims. (Cl. 248—120)



1. A pallet comprising a longitudinal web of corrugated paper having transverse grooves in spaced relation therein and the corrugations of which run transversely to the web length, weight-carrying tubular cylinders of paper having wooden plugs in their ends and steel straps encompassing the paper web surrounding the groove with its tubular element therein, whereby the weight-carrying tubular cylinders are permanently secured in the grooves and the tendency of said cylinders to expand laterally and collapse is reduced.

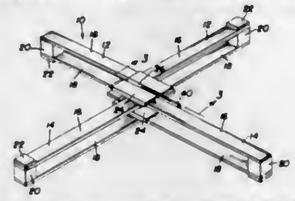
2,643,081

LOADING BASE

Robert E. Spring, Ashtabula, Ohio, assignor to Spring Wood Products, Inc., Geneva, Ohio, a corporation of Ohio

Application July 11, 1950, Serial No. 173,041
4 Claims. (Cl. 248—120)

1. An adjustable, collapsible loading base comprising a plurality of legs, a pivot, means securing said legs for horizontal movement about said pivot, means for releasably locking said legs in selected adjusted position about said pivot to vary the shape and area of said base, said legs being rigidly secured to each other in pairs on opposite sides of said pivot, legs of each pair



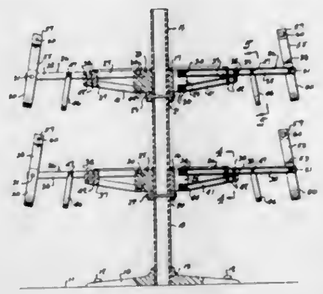
being in parallel relation with their adjacent ends overlapping each other, said first means comprising a hinge plate for each pair of legs, said plate having channels slidably receiving said adjacent ends, said plate being rotatably mounted on said pivot.

2,643,082

DISPLAY SUPPORT FOR CONTAINERS

Hall Hinkle, Pickens, S. C.

Application March 22, 1950, Serial No. 151,065
1 Claim. (Cl. 248—122)



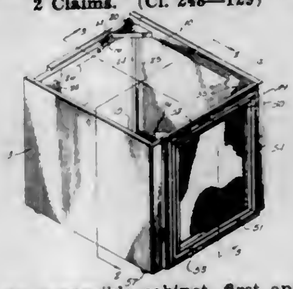
A rack for supporting a container comprising a support, a pair of outwardly projecting arms secured at one of their ends to opposed sides of said support, said outwardly projecting arms being bent at right angles in opposite directions from each other and then being bent outwardly in parallel relation to each other to form spaced parallel support arms, a first semi-circular member secured to and extending between the spaced parallel support arms upon which one end of the container is adapted to be placed, a second semi-circular member pivotally secured to and extending between the spaced parallel portions of each of the outwardly extending arms and adapted to support a portion of the container whose end is supported by the first semi-circular member, the first and second semi-circular members being arranged with respect to each other so the axis of the container will extend outwardly and upwardly at an angle relative to the horizontal, and means for clampingly securing the container against the second semi-circular support member whereby the second semi-circular support member may be partially rotated for tilting the associated container to assist in removing the contents therefrom.

2,643,083

EXPANSIBLE CABINET

Clarence A. Troutman, High Point, N. C.

Application July 13, 1951, Serial No. 236,527
2 Claims. (Cl. 248—129)



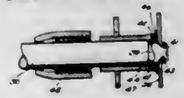
1. In an expansible cabinet, first and second vertical side frames, said first side frame having upper and lower rear horizontal bars fixed to and extending laterally inwardly from rear portions of said first frame and front upper and lower horizontal bars fixed to and extending laterally inwardly from forward portions of said first frame, said second side frame having upper and lower horizontal bars fixed to and projecting laterally inwardly from rear portions of said second side frame and upper and lower front horizontal bars fixed to and projecting laterally inwardly from forward portions of said second side frame, the rear lower bars of the side frames being in overlapping and sliding relation and the rear upper bars of the side frames being in overlapping and sliding relation, first means for clamping the overlapped rear upper and lower bars together in longitudinally adjusted relation to each other, the front upper and lower bars being shorter than the rear upper and lower bars and having their inwardly extending free ends in longitudinally spaced relation to each other, front panels secured to and extending between the upper and lower bars of each of said side frames, and a front frame slidably engaged with the front faces of said front panels, and second means acting between said front frame and said front panels for securing the front bars in longitudinally adjusted relation to each other.

2,643,084

REARVIEW MIRROR APPARATUS

Daniel E. Reed, Norwalk, Conn., assignor to Supersite Corporation, Bronx, N. Y., a corporation of New York

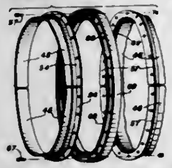
Original application November 14, 1947, Serial No. 785,853. Divided and this application February 12, 1949, Serial No. 76,094
6 Claims. (Cl. 248—226)



1. In a device of the character described, a bracket having a foot adapted to engage the inner side of an automobile door rim and an outer flat portion overhanging said foot, a shank having a reduced portion at its outer end, a threaded bushing on said shank having an interior flange embracing said reduced portion on said shank, means partly on said shank and partly on said overhanging portion of said bracket for securing said shank and bracket rigidly together with said interior flange of said bushing clamped between

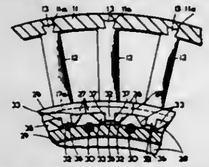
said shank and bracket, a casing adapted to enclose the outer portion of said bracket and to engage the outer side of said door rim, a resilient gasket on the engaging edge of said casing, said casing being perforated to allow passage thereof along said threaded bushing, and a threaded sleeve on said bushing and turnable to force said casing toward said foot.

2,643,085
GAS TURBINE APPARATUS
William J. Durkin, Swarthmore, and Donald N. Arvidson, Prospect Park, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 8, 1948, Serial No. 48,168
1 Claim. (Cl. 253—69)



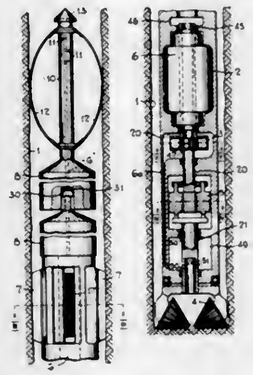
A turbine diaphragm structure comprising a plurality of pairs of semi-circular shroud sections carrying radial blades, said shroud sections having marginal flanges and spigots formed thereon, and integral supporting rings interposed between and secured to the respective pairs of shroud sections, said rings being of I-shaped cross section with concentric inner and outer flanges engaging the flanges and spigots of said shroud sections for preventing distortion of the assembled diaphragm structure.

2,643,086
MOUNTING OF TURBINE BLADES
Albert Thomas and Leslie Richard Fellows, Coventry, England, assignors to Armstrong Siddeley Motors Limited, Coventry, England
Application October 23, 1947, Serial No. 781,512
In Great Britain September 2, 1947
3 Claims. (Cl. 253—78)



1. An axial flow internal combustion turbine including an outer stator casing, an inner stator casing providing with the outer casing an annular passage for the hot gases, a row of radially-extending turbine blades in said passage and having their outer ends fast with said outer casing, said inner casing built up of separable parts with axially-spaced radial walls defining between them a circumferential groove of which one axial end is deeper than the rest, shrouds at the radially inner ends of said blades engaging said radial walls for locating said blades axially of said inner casing, circumferentially-spaced teeth fast with one radial wall of said deeper portion of said circumferential groove and extending axially across said deeper portion, said teeth arranged in pairs with the adjacent faces of the teeth of each pair defining a parallel-sided recess, and said shrouds having radial teeth slidably engaged in said recesses to locate said blades circumferentially of said inner casing.

2,643,087
SELF-POWERED ROTARY DRILLING APPARATUS
Henry J. Ogorzaly, Summit, N. J., and Ben W. Sewell, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 22, 1950, Serial No. 202,173
6 Claims. (Cl. 255—4.8)



1. A self-powered apparatus for drilling a borehole comprising an elongated body, a drill bit rotatably supported on the lower end of said body, a motor in said body driving said drill bit, a pump in said body driven by said motor, borehole engaging means carried by said body to prevent rotation of said body in the borehole, at least one stored power section connected to the top of said body, means for furnishing power from said power section to said motor, a fluid passageway extending through said body from a port adjacent said drill bit to a port at the top of said body, and a fluid passageway extending vertically through said stored power section and communicating with said passageway in said body whereby fluid circulation through a path within the entire length of the apparatus in the bore hole and a path through the entire length of the annulus between the apparatus and the bore hole may be established.

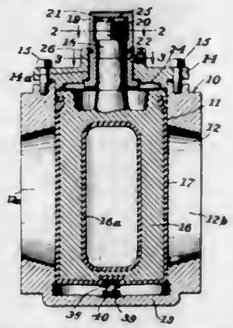
2,643,088
PORTABLE TOOL
John Hornack, Parma, Ohio
Application June 26, 1947, Serial No. 757,105
5 Claims. (Cl. 255—45)

1. In combination, a portable electric drill having a rotatable drilling tool, and means associated with said drill for exerting pressure on the drill in the direction of the axis of the drilling tool during the drilling operation, said means comprising a valve member having a passageway extending therethrough, said passageway having oppositely acting check valves adjacent the ends thereof, a fluid reservoir secured to one end of said valve member and to the casing of said drill, a cylinder secured to the other end of said valve member and in axial alignment with the reservoir, a piston in said cylinder, and means for transferring fluid from said reservoir to said cylinder to cause an extension of said piston from said cylinder, said transferring means comprising a second piston adapted to force liquid in said passageway into said cylinder, and means for reciprocating said second piston, said reciprocating means comprising a lever pivotally mounted on said valve member and pivotally



connected to said second piston and a handle secured to said lever for oscillating said lever.

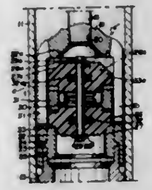
2,643,089
UNSEATING STRUCTURE FOR ROTARY PLUG VALVES
Lucien W. Mueller and Frederick Tratzik, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application October 31, 1946, Serial No. 706,904
11 Claims. (Cl. 251—91)



1. In a valve, a valve casing including a seat bore and a flow passage extending transversely of the seat bore, a ported plug rotatable in the seat bore, a pivot bearing between one end of said ported plug and the opposed surface of said valve casing, and co-acting means carried by the opposite end of the plug and the opposed surface of the valve casing to tilt the plug with respect to the seat bore during rotation of the plug.

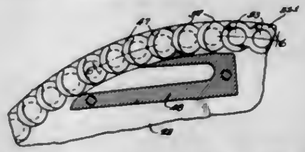
2,643,090
SHOCK ABSORBING CHECK VALVE FOR HYDRAULIC SYSTEMS
Harlan E. Cluphf, Denver, Colo., assignor to Harjeroy Engineered Petroleum Products Sales Co., Denver, Colo., a corporation of Colorado
Application September 9, 1950, Serial No. 184,007
1 Claim. (Cl. 251—118)

A check valve assembly for use in hydraulic systems of the type subjected to shock when a check valve therein closes, comprising; upper and lower members having frustoconical seats thereon facing in opposite directions, a valve stem extending axially between the members, at least one of the members being slideable on the valve stem, means for limiting the relative movement of the members away from each other, means comprising an annular sleeve positioned between said members, the opening in said sleeve having an inwardly projecting flange positioned nearer the lower side than the upper, said duplicate members having each a cylindrical projection of a diameter substantially equal to the diameter of the opening in the sleeve, the distance from the lower surface of the sleeve to the under surface of the flange being less than the height of the



cylindrical projections, and the corresponding distance above the flange being greater, resilient compressive means interposed between the members for urging them apart to the limit position, means comprising said sleeve for limiting relative movement of the members toward each other, and an apertured cage having a pair of axially spaced annular frusto-conical seats between which the assembly may reciprocate, one or the other of the members being automatically engageable, respectively, with one or the other of the annular seats, said cage and valve therein adapted to be bodily disposed as a unit within a liquid carrying conduit.

2,643,091
TURBINE HEATER
James H. Edwards, Evanston, Ill.
Application February 11, 1950, Serial No. 143,757
3 Claims. (Cl. 253—79)



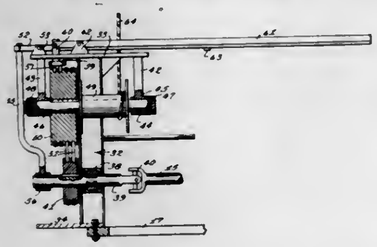
1. A turbine rotor comprising a disk having a series of evenly spaced, closely adjacent, countersunk, circular bores formed therein, with the centers of the bores equidistant from the center of the disk and with the axes of said bores parallel to the rotational axis of the disk, and turbine blades mounted in said bores, each turbine blade comprising a cylindrical stud portion fitted within its bore, a circular head portion fitted within the countersink of its bore, and a crescent-shaped blade integral with and rising from the head portion, each head portion having an arcuate slot formed in the periphery thereof with a radius equivalent to the radius of the head portion, the disk bores being spaced apart in amounts such that when adjacent blades are mounted in the disk, the head portion of any one blade fits within the arcuate recess of the next adjacent blade to thereby interlock said blades in fixed angular position with respect to the center of the disk.

2,643,092

HOIST ATTACHMENT FOR TRACTORS

Leon Paulette, Appomattox, Va.

Application November 18, 1949, Serial No. 128,099
2 Claims. (Cl. 254—166)



2. In a cable winding attachment for a tractor having a frame and a power take-off projecting from the frame, a support adapted to be fixed on the frame in the region of the power take-off, a first shaft mounted on said support to be in alignment with the power take-off, a universal joint on said first shaft adapted to be connected with the power take-off, a universal bearing mounting said first shaft on said support enabling said first shaft to rock relative to said support, a second shaft mounted on said support alongside of and vertically spaced from said first shaft, cooperating pulleys fixed on said shafts, a cable drum fixed on said second shaft, belt means trained around said pulleys and normally operatively connecting the pulleys whereby the cable drum is driven from the tractor power take-off, brake band means trained around the second shaft pulley and secured at one end to said support, first and second levers pivoted intermediate their ends on said support, first means operatively connecting said first lever to said first shaft for shifting said first shaft toward and away from said second shaft to loosen and tighten said belt means for varying the degree of operative connection of said belt means with said pulleys, and second means operatively connecting the other end of the brake band means to said second lever for actuating the brake band means.

2,643,093

AIR ACTUATED CONTROL SYSTEM

John H. Province, Oklahoma City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 24, 1948, Serial No. 40,587
31 Claims. (Cl. 254—187)



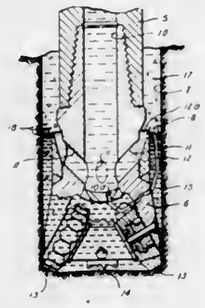
1. A mobile well servicing unit comprising, in combination, a vehicle chassis, an engine for driving said vehicle, a winch drum mounted on said chassis, a transmission for operating said drum from said engine including a low speed and a high speed winch drum clutch, motive means for actuating said clutches, winch drum brake actuating means, a motive device for operating said brake actuating means, and a portable control unit for remotely controlling the selective operation of said means for actuating said clutches to cause operation of said winch drum at different speeds and for operating the motive device for said brake actuating means, whereby the control unit may be placed at any desired location with respect to said vehicle and a work point.

2,643,094

DRILLING METHOD AND APPARATUS

Robert G. Peter, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application December 5, 1949, Serial No. 131,151
5 Claims. (Cl. 255—1.8)



1. The method of drilling earth bore holes which consists in depositing a fluid in the bottom of the hole having a specific gravity higher than the specific gravity of the formation being drilled, circulating a drilling fluid having a specific gravity lower than the specific gravity of the fluid within the bottom of the hole, jetting the major portion of said drilling fluid upwardly just above the level of the bottom hole fluid to accelerate the removal of the cuttings therefrom, and discharging a small portion of said drilling fluid downwardly into the lower portion of said bottom hole fluid to provide cooling of the bottom hole fluid.

2,643,095

APPARATUS FOR DRILLING DEEP WELLS

Armais Arutunoff, Bartlesville, Okla.

Original application November 18, 1949, Serial No. 60,709. Divided and this application May 16, 1951, Serial No. 226,578
2 Claims. (Cl. 255—4.8)

1. In combination with a well drilling unit adapted to be suspended from a cable, a tube-like casing adapted to be removably mounted on the upper end of said unit and extending upwardly around the outside of said cable, the upper end of said casing being open and of substantially greater diameter than the cable, a fishing neck centrally disposed within the upper end of said casing and through which said cable is adapted to be freely threaded, the outer surface of said fishing neck being spaced inwardly a substantial distance from the inner wall of said casing, and a plurality of outwardly extending ears spaced

around said neck and secured to the inner wall of said casing to reinforce the upper margin of



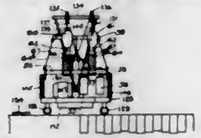
the receptacle and yet provide openings through which debris can enter the receptacle.

2,643,096

TRENCH MAKING MACHINE AND THE LIKE

Harry H. Bates, Oregon, Ill.

Application May 17, 1948, Serial No. 27,443
4 Claims. (Cl. 255—19)



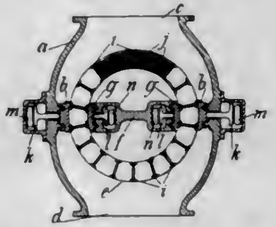
1. In a trench forming apparatus, the combination of a pair of vertical drills of substantially equal diameter, means to support said drills with their axes vertical and separated from each other a distance equal to three times the diameter of the drills, said supporting means being vertically movable, means to raise and permit lowering of said supporting means, a vertically movable horizontal templet, means to support said templet, said templet supporting means being vertically movable, there being a pair of drill guiding through openings in the templet in axial alignment with the drills, and of size to accommodate the drills and separated from each other center-to-center a distance equal to three times the drill diameter, the drills being vertically movable through said openings, another pair of plug guiding through openings in the templet of substantially the same size as the drill guiding openings, said plug guiding through openings being separated from each other center-to-center a distance equal to twice the drill diameter, both of said plug guiding through openings being formed in the templet at opposite sides of and in circumferential contact with one of the drill guiding through openings, and all of the drill guiding and plug guiding through openings being located with their centers in substantial alignment in the templet, a pair of vertically movable cylindrical plugs, means to support said plugs with their axes vertical and in alignment with the plug guiding through openings of the templet, and means to raise and permit lowering of said plugs through said templet openings, the plugs being of substantially the same diameter as the drills.

2,643,097

REGENERATIVE HEAT EXCHANGER

Andrew Thomson Bowden, Newcastle-upon-Tyne, and Waldemar Hryniszak and Paul Kolb, Whitley Bay, England, assignors of one-fourth to C. A. Parsons & Company Limited, Newcastle-upon-Tyne, England

Application March 8, 1949, Serial No. 80,244
In Great Britain December 12, 1947
4 Claims. (Cl. 257—6)



1. In a regenerative heat exchanger having an annular rotor with longitudinal partitions dividing it into circularly arranged matrix holding chambers and stationary elements for defining two separated passages for gas flow through the rotor, the said chambers being open for gas flow between the said partitions both on the inner and outer peripheral surfaces of the rotor and in combination, sealing devices between the said stationary elements and the inner and outer peripheral surfaces of the rotor for sealing the two said passages from each other, each said sealing device comprising a sealing shoe for forming a seal between the two said passages, the sealing shoe having a rotor-engaging surface of arcuate extent sufficient to cover a complete rotor chamber, means mounting the shoe for radial movement toward and away from the rotor, and means for holding the shoe in sealing engagement with the rotor, the last said means comprising a flexible tube, means supporting the tube and compressing it against the shoe for forcing the shoe toward the rotor, and means for keeping the tube full of incompressible liquid and varying the pressure of the said liquid in accordance with variation in gas pressure against the surface of the shoe as the rotor compartments pass the same, whereby the force exerted against the shoe by the said tube maintains a substantially constant and relatively small sealing pressure of the shoe against the rotor.

2,643,098

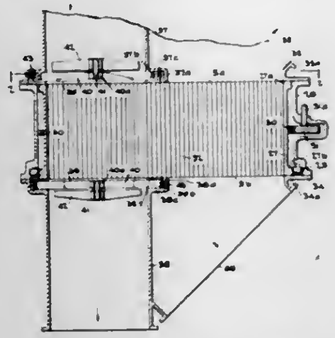
HEAT EXCHANGER

Richard Rigby, Great Crosby, Liverpool, and John C. S. White, Shoreham-by-Sea, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Original application July 23, 1947, Serial No. 763,054. Divided and this application May 21, 1951, Serial No. 227,316. In Great Britain January 16, 1947
16 Claims. (Cl. 257—6)

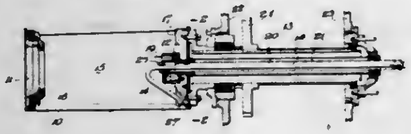
1. An accumulator heat exchanger comprising: a heat accumulator having a bank of heat-transfer elements mounted in a drum, said drum having a plurality of longitudinal partitions providing a plurality of separate fluid passages, the ends of said partitions terminating in planes at the ends of the drum to form end contact faces; a first pair of ducts at opposite ends of the drum having ports located eccentrically to the axis of the drum and in close proximity to said contact

faces, said ports being smaller in area than said end faces and being fixed relatively to each other, said ports and drum being relatively movable; a shutter at each port having an annular sealing face in engagement with the adjoining contact face of the drum, said shutters being mounted at locations fixed relatively to the axes of said ports but movable along said axes to surround the termini of the same partial group of said passages, each shutter having an opening within said annular sealing face providing communication between said group of passages and the respective duct; a second pair of ducts at opposite ends of the drum in communication with fluid passages other than those of said partial group; and means for effecting relative movement between said drum and said ports of the first pair of ducts to effect a coordinated sweeping movement of said contact faces by said shutters and thereby vary the said partial group of passages.



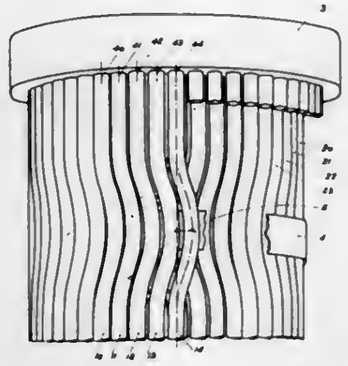
2. The heat exchanger according to claim 1 wherein the said ducts and the ports are stationary and the accumulator drum is mounted for rotation about the central axis thereof to bring successive groups of fluid passages into registry with said shutters.

2,643,099
VAPOR HEATED ROLL
William Thomas Reed Kinraide, Bolton, Mass., and Walter C. Eberlin, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 4, 1950, Serial No. 194,086
1 Claim. (Cl. 257—95)



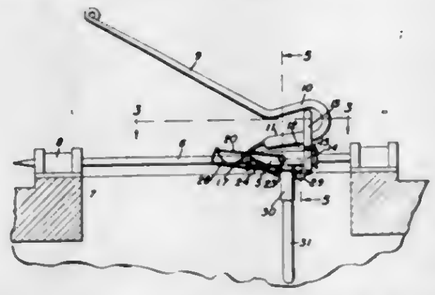
A rotatable, vapor-heated, cylindrical roll roll adapted for high speed continuous treatment of material at a uniform temperature within plus or minus 4° C. of an optimum temperature over the entire working surface of the roll which comprises a wall having a cylindrical outer surface constituting the working surface of the roll, circular end plates attached to each end of said cylindrical wall and enclosing a vapor-heating chamber within said wall, a hollow supporting axle attached to one only of said end plates in axial alignment with said roll, bearings supporting said axle in horizontal position for rotation of said roll, said cylindrical wall being tapered uniformly in thickness from end to end to provide a vapor chamber having a gradually increasing diameter from one of said end plates to the other end plate, condensate collection troughs ringing the inner side of said wall adjacent to each of said end plates, an a stationary condensate removal pipe passing axially through said supporting axle into said chamber with the chamber end of the pipe located in the condensate trough at the larger diameter end of said chamber, said pipe end being bent in the opposite direction from the direction of rotation of the roll to act as a scoop for removing condensate.

2,643,100
HEAT EXCHANGER
Henri Bonnaud, Viroflay, France, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, a company
Application December 31, 1948, Serial No. 68,561
In France January 22, 1948
1 Claim. (Cl. 257—224)



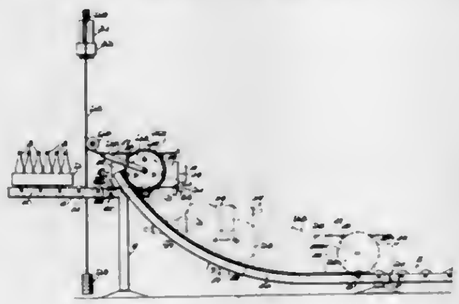
A heat exchanger, comprising a casing, two spaced tube-plates enclosed in said casing and fastened thereto, a nest of metal tubes arranged in rows and mounted between said tube-plates, inlet and outlet pipes connected to said casing for a heat-exchange medium intended to circulate in said casing and inlet and outlet pipes connected to said tube-plates for another heat-exchange medium intended to circulate in said tubes, the linear expansion coefficient of the metal of the tubes being different from that of the casing, each tube being substantially straight and having at least one bow, the deflection of said bow being substantially directed according to the direction of the row of said tubes in the neighborhood of said bow, the bows of the tubes being headed in an opposite direction when passing from one row of tubes to the neighboring row, the chord subtending said bow being between 4 and 8 times the deflection of said bow, said deflection being greater than 3 centimetres and smaller than 10 centimetres, the bowed portion of the tube extending over less than half the length of said tube and the non-bowed portion being practically directed according to the straight line joining the places where said tube is mounted in the tube-plates, whereby when said heat exchanger is employed in a heat exchange process, each tube will work above the elastic limit of the metal thereof at the temperature prevailing during said heat exchange process.

2,643,101
MAILBAG CATCHER
Charles H. Nelson, Zion, Ill.
Application October 23, 1950, Serial No. 191,534
4 Claims. (Cl. 258—22)



1. A mail bag catcher comprising a sleeve adapted for rotatably mounting on a supporting bar of a railway car door, a mail bag receiving hook carried by the sleeve, a pair of spring actuated latch members swingably supported on the sleeve at opposite sides of the latter for holding a mail bag in the hook, and trip means holding the latch members in set position forwardly of the hook and actuated by a mail bag entering the hook to release the latch members, said trip means including an impact member pivoted to the sleeve and having a portion thereof positioned in the hook in the path of a bag entering the hook, and a pair of trip arms slidably supported by the sleeve and each having one of their ends connected to the impact member and having hooks at their other ends engaging the latch members.

2,643,102
AGITATING MACHINE FOR BOTTLED BEVERAGES AND THE LIKE
William L. Bashford, Fresno, Calif.
Application February 15, 1952, Serial No. 271,793
17 Claims. (Cl. 259—54)



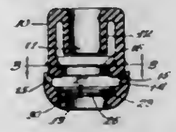
1. An agitating machine for mixing charges of syrup and water in individual merchandisable containers comprising a downwardly inclined continuous fixed runway having an upper receiving end and a lower discharge end, a carriage reciprocable along the runway and operatively connected thereto for rotation automatically during movement down the runway, means for supplying containers to the carriage when at the receiving end of the runway, and means for discharging containers from the carriage when at the discharge end of the runway.

2,643,103
LIQUID FEEDING APPARATUS
David B. Bell, Long Beach, Calif.
Application August 1, 1949, Serial No. 107,845
5 Claims. (Cl. 261—19)



5. Apparatus of the character described including, a flow line having a high pressure section and a low pressure section, a liquid feed means actuated by pressure from the high pressure section of the flow line, and atomizing means receiving liquid from the feed means and delivering it atomized to the low pressure section of the flow line, the atomizing means including a closed body forming an atomizing chamber, a vertically disposed standpipe in the chamber receiving liquid from its lower end, and a plurality of atomizing devices spaced along the standpipe receiving liquid from the standpipe and atomizing it into the atomizing chamber.

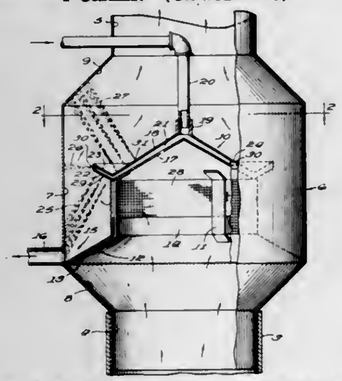
2,643,104
AERATING DEVICE
Orloff W. Holden, Chicago, Ill., assignor to Orloff W. Holden and Margurite H. Holden, doing business as Knickerbocker Rubber Company, Chicago, Ill., a partnership
Application December 19, 1949, Serial No. 133,710
4 Claims. (Cl. 261—76)



3. A liquid aerating device including in combination, a one-piece cylindrical casing having an inlet and an outlet, nozzle means in said casing adjacent said inlet, and foraminous means in said casing adjacent said outlet, said nozzle means and said foraminous means defining a liquid-and-air mixing chamber within said casing, said nozzle means including a plurality of nested frusto-conical annular members with serrations on the periphery thereof forming nozzles for providing streams of liquid in said mixing chamber, said frusto-conical annular members having the smaller ends thereof positioned toward said outlet so that said streams converge toward the center of said foraminous means, said cylindrical casing having openings in the wall thereof positioned between said nozzle means and said foraminous means through which air is drawn into said mixing chamber, said foraminous means including a plurality of discs of foraminous material disposed in overlying relation, means for spacing said discs, and means for securing said discs together at their

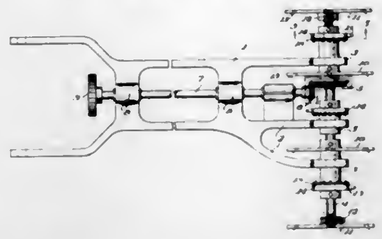
edges, said spacing means holding said innermost disc in a convex shape in the direction toward said nozzle for distributing liquid projected through said nozzle means against said foraminous means whereby agitation is produced in said mixing chamber and air is mixed with the liquid.

2,643,105
FLUE-GAS SPRAY DEVICE
Joseph Lipowitz, Los Angeles, Calif.
Application February 25, 1952, Serial No. 273,297
4 Claims. (Cl. 261—115)



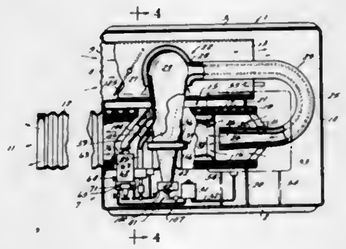
1. A flue attachment comprising a spacious tubular body portion having at each end a reduced tubular body portion, intervening frusto-conical body portions joining said reduced body portions to said spacious tubular body portion, an inverted funnel shaped member having the peripheral edge of its conical part resting within and secured in a water-tight condition along the joint formed at the juncture of the frusto-conical part with the spacious tubular body portion adjacent the attached end of the device, the resulting structure forming an annular sump between said conical part and the spacious tubular body portion surrounding it, a liquid distributing head mounted in said spacious tubular body portion in an axially spaced relation to the reduced end of said funnel member, said head comprising spaced apart hollow conically shaped members providing a liquid space therebetween, said conical members having peripheral flanges deflected toward their apices, a narrow ring provided with circumferentially spaced apart apertures interposed between the peripheral edges of said flanges, the diameter of the complete head thus formed being less than the diameter of said spacious tubular body portion but greater than the diameter of the tubular part of said funnel member, a liquid supply source communicating with said space in said head, there being concentric rows of apertures in the flange of the cone shaped member nearest the intake end of said attachment adapted to direct liquid spray toward said sump while at the same time crossing the path of elements passing from the intake end to the discharge end of the attachment through the space afforded between the tubular part of the funnel member and said head, there being also concentric rows of apertures in the body portion of the cone member adjacent the discharge end of the attachment to direct streams of liquid across the path of issuing elements after they pass said apertured ring into the discharge end of the attachment, and a drain connected to said sump.

2,643,106
ROTARY CUTTER DEVICE FOR MINING MACHINES
George C. McGowan, New Brighton, Pa.
Application April 5, 1949, Serial No. 85,606
7 Claims. (Cl. 262—9)



7. In an apparatus for mining mineral, a shiftable frame structure, a pair of spaced axially aligned kerf cutting members rotatably supported by said frame structure, a ripping member rotatably supported between said pair of kerf cutting members, gear mechanism interconnecting said members for concurrent rotation including a stationary ring gear fixed to said frame structure and a stud gear connected with said kerf cutting members to rotate with the latter and planetary gear means revolubly carried by said ripping member and meshing with said ring gear and with said stud gear, said stud gear and said planetary gear means being disposed within said ripping member, and means for rotatably driving one of said members.

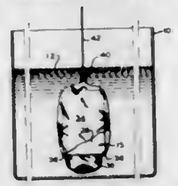
2,643,107
HEATING DEVICE
Wunibald I. E. Kamm and Willy F. Krautter, Dayton, and Kurt Staiger, Wright-Patterson Air Force Base, Ohio
Application November 28, 1949, Serial No. 129,861
1 Claim. (Cl. 263—19)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In a resonant pulse jet air heating and circulating space heater, a substantially rectangular enclosing casing having vertically spaced air inlet and heated air outlet openings in one end wall thereof; a resonant pulse jet heater fixed within the casing, comprising an elongated vertical dome shaped combustion chamber having a fuel and air check valve controlled inlet port at its lower end in communication with the interior of the casing; means within the casing for supplying fuel and air to said inlet port to form a combustion mixture in the combustion

chamber; said combustion chamber having an exhaust port in its side wall; a U-shaped tail pipe connected at one end to the exhaust port with its opposite end forming an exhaust end portion facing the heated air outlet opening in spaced relation to the outlet opening; air heating conduit means surrounding the upper portion of the combustion chamber and tail pipe in spaced concentric relation thereto having an air inlet and surrounding the combustion chamber and a heated air outlet surrounding the exhaust end portion of the tail pipe; means within the casing for heating the side of the combustion chamber opposite the exhaust port therein and below the air inlet of the air heating conduit means, for heating an area of the combustion chamber wall to a temperature sufficient to explode a fuel and air mixture when introduced into the combustion chamber, to initiate the resonant pulse jet cycle; manually controlled means within the casing having a fuel and air mixture supply conduit connected in communication with the interior of the combustion chamber at a point below the area heated by the combustion chamber heating means and above the check valve controlled inlet port, including manually controlled valve means governing the fuel and air mixture supply conduit and means under control of said manually controlled valve means for supplying heated fuel and air under pressure into the vertical heated fuel and air mixture conduit; Venturi means extending inwardly from the heated air outlet port of the casing having a flared mouth facing the exhaust end portion of the U-shaped tail pipe and heated air outlet of the air heating conduit means in surrounding concentric spaced relation thereto.

2,643,108
SILVER RECOVERING AND COLLECTING DEVICE
Heiman G. Lieberman, Evansville, Ind.
Application February 24, 1950, Serial No. 145,960
12 Claims. (Cl. 266—22)



12. A device for precipitating and recovering silver from a liquid containing silver ions in solution, comprising a receptacle having sides and a bottom formed of thin porous material, an assembly positioned within the receptacle and formed of insoluble material reactive with the ions, said assembly having continuous substantially vertical passages, means to maintain the assembly above the bottom of the receptacle whereby precipitated material may fall through the passages and be collected on said bottom of said receptacle.

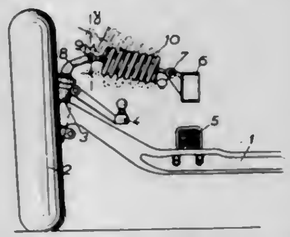
2,643,109
SPRING DEVICE
Joseph Kaye Wood, New York, N. Y., assignor to General Spring Corporation, New York, N. Y., a corporation of New York
Application May 28, 1945, Serial No. 596,298
3 Claims. (Cl. 267—1)

1. A coiled wire tension spring having a non-uniform load-deflection characteristic in its operating range which comprises a plurality of zones each composed of adjacent helical turns of wire and the spacing of the turns being different in different zones, the permissible oscillatory range of elastic deflection of the spring between its elastic limits of stress at which permanent deformation begins extending a substantial distance on each side of the point at which the turns in one zone come into contact while those in another zone are substantially



spaced, said spring having the turns of one zone pressed together by backwind to an extent that, while the turns of another zone are stretched to substantially increased spacing, its turns are still held together by pressure between them and the elastic limit of the other zone, in which the turns are spaced, is substantially beyond the point at which the tension of said other zone separates the turns of the first-named zone.

2,643,110
SUSPENSION OF VEHICLES
Jean Albert Gregoire, Paris, France
Application December 15, 1947, Serial No. 791,838
In France July 11, 1947
6 Claims. (Cl. 267—28)



1. A vehicle suspension for suspending a vehicle body with respect to a vehicle wheeled support, said suspension comprising main spring means connected between said vehicle body and said vehicle wheeled support, said main spring means supporting substantially the whole body load of the vehicle in the position "when empty," and supplemental spring means including an elastic extension device pivoted at its ends on the vehicle body and on the vehicle wheeled support, respectively, at points having their minimum separation for a position of the vehicle body intermediate the position "when empty" and the position of "zero load," said elastic extension de-

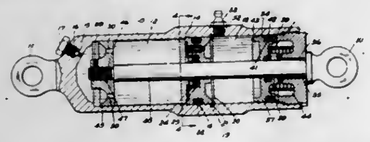
vice being under tension at said "when empty" position and increasing in length and resistance as the body load increases.

2,643,111
SINGLE-LEAF SPRING CLAMP
Robert B. Burton, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 29, 1948, Serial No. 41,312
8 Claims. (Cl. 267—52)



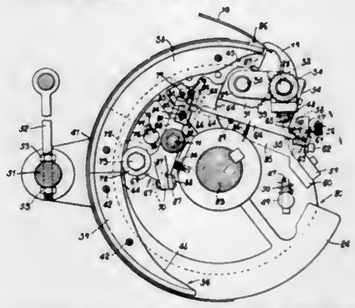
1. In a vehicle having sprung and unsprung parts, a single leaf spring through which the load is transferred between said parts, spring end connecting means joining the spring to one of said parts and a spring intermediate connection with the other part comprising dimples in opposite side faces of said single leaf spring occupying the zone of the neutral axis of bending, a collar surrounding said leaf spring and carrying internal projections fitted in interlocking relation to said dimples, a protective covering of elastic deformable material enveloping said spring leaf and said collar, a pair of clamp plates fitted to the top and bottom of the spring leaf and about said covering and having recessed portions to receive and interlock with portions of said collar, and fastening means anchoring said other part to the clamp plates and being arranged to press the clamp plates toward one another for squeezing the covering engaged thereby and effecting tighter interlock with said collar and between said collar projections and the side face dimples in the spring leaf.

2,643,112
FLUID SPRING
Ira D. Smith, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation
Application December 23, 1948, Serial No. 66,985
4 Claims. (Cl. 267—64)



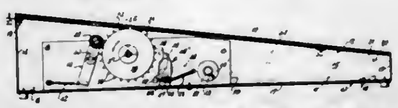
1. A fluid spring including a housing, a work chamber and a reservoir in said housing filled with liquid, a partition between said chamber and reservoir, a piston slidable in said chamber having a piston rod extending therefrom through said partition, reservoir and one end of said housing, end terminals on said housing and piston rod adapted to be secured to the work intended to be cushioned, a floating piston slidable in said reservoir on said piston rod, means operatively associated with said floating piston for causing it to exert pressure on the liquid stored in said reservoir, and means in said partition automatically supplying liquid under pressure from said reservoir to said chamber.

2,643,113
SHEET OR SIGNATURE FEEDING MECHANISM
Leo C. Williams, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a corporation of New York
Application November 22, 1950, Serial No. 197,081
14 Claims. (Cl. 270—56)



1. In apparatus of the character described, a movable carrier having a sheet or signature supporting surface, a gripper movably mounted on said carrier, means for moving said gripper toward said surface from a normal open position to closed position on a sheet or signature, control means independent of said carrier and arranged to be actuated, a member mounted on said carrier for movement therewith and for relative movement to two positions only, namely, an operative position and an inoperative position, said member with said gripper in normal opened position being disposed in its operative position so as to engage and actuate said control means during movement of said member with said carrier, means for moving said member to its inoperative position in synchronism with the closing operation of said gripper, and means mounted on said carrier for relative movement under the control of said gripper to one position for permitting movement of said member to its inoperative position so that engagement of said member with said control means is avoided when the gripped sheet or signature is of proper thickness, and to another position for holding said member in its operative position and against movement to its inoperative position so that said member will engage and actuate said control means when the thickness of the gripped sheet or signature is in excess of or less than the proper thickness and when no sheet or signature is gripped by said gripper.

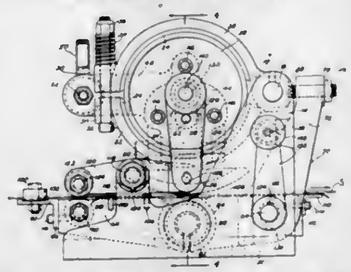
2,643,114
MULTIPLE AUTOGRAPHIC REGISTER
Ellis A. Laskey, Lawrence, N. Y.
Application March 15, 1949, Serial No. 81,593
4 Claims. (Cl. 271—2.4)



1. In a machine of the character indicated including a cabinet with a slanting top and side walls, a cover element hinged at the higher end of the cabinet and adapted to normally overlay the top and having slots adjacent its side edges

and having openings for exposing portions of a record sheet supported by the cabinet top beneath the cover; a mechanism for moving a record sheet over the top and under the cover for progressively exposing successive portions of the sheet through the cover openings, said mechanism comprising a shaft extending transversely through the cabinet beneath said slots and having its ends projecting beyond the side walls, hand knobs engaging the projecting shaft ends for manually operating the shaft, wheels secured upon the shaft and having circumferentially spaced pins extending radially from the peripheral faces of the wheels through and being movable in the slots and serving to shift the record sheet as the shaft is rotated, a spring-loaded detent in yieldable engagement with the ends of any two adjacent pins of one of the wheels to thereby restrict the movement of both wheels and of the shaft so that a certain number of pins of each wheel extending through the slots are retained in fixed position when the shaft is at stand-still, and operating means for the wheels and the shaft including a spring-loaded, pivotally supported ratchet lever disposed and operative exteriorly to the cabinet and having a normally elevated, depressible long and a shorter end, a slot provided in one of the cabinet side walls, the shorter lever end extending through the slot into the cabinet, a spring-loaded ratchet pawl pivotally associated with that shorter end of the lever and having a pin-engaging end and an abutment end, a fixed abutment within the cabinet extending into the path of the abutment end of the pawl, and being adapted, when engaged by said abutment end as the ratchet lever is released to assume its normal elevated position, to swing the pawl so that its pin-engaging end clears the wheel pins, said pin-engaging end of the pawl being thus adapted to alternately engage and release the pins of one wheel, one at a time, at each operation of said ratchet lever, thereby imparting a step by step turning movement to the wheels and the shaft.

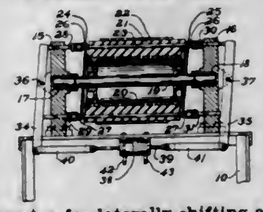
2,643,115
STOCK FEEDING MECHANISM
James L. Giffen, Hudson, N. Y., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application June 11, 1946, Serial No. 676,041
6 Claims. (Cl. 271—2.5)



1. In strip feeding mechanism, opposed feeding and clamping members between which the strip passes, mechanism for moving one of said feeding members toward and away from the other during a strip feeding cycle, an adjustable support for the other feeding member and one of said clamp members, means for adjusting said support to variably regulate the strip feeding clearance between said members.

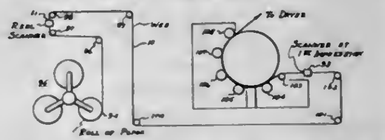
3. In an intermittent strip feed apparatus, a strip feed member having an arcuate strip engaging face, a supporting arm for said feed member mounted for rocking movement on an axis substantially parallel to the direction of feed of the strip, and an adjustable connection between said member and arm for rocking said feed member on said arm about an axis transversely of said first axis so as to properly position said strip engaging face relative to the strip.

2,643,116
APPARATUS FOR CONTROLLING A WEB OF SHEET MATERIAL
Victor H. Hasselquist, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application February 25, 1949, Serial No. 78,411
4 Claims. (Cl. 271—2.6)



1. Apparatus for laterally shifting a travelling web of sheet material, said apparatus comprising a rotatable drum having a thick continuous layer of distortable resilient material bonded thereto about its face and formed to receive the web, said layer having a peripheral surface for engaging the web of material and substantially unconfined ends, relatively non-rotatable cam means at one end of the layer and opposed to one of said ends, and cam follower means including rigid means carried by said one end of said rubber material, said cam follower means engaging said cam means during drum rotation for effecting axial distortion of said layer of resilient material by deflecting pressure applied to said one end to shift the travelling web.

2,643,117
AUTOMATIC CONTROL SYSTEM
Stewart Edwin Frisbie and William Owen Smiley, Danville, Ill., and Joseph C. Frommer, Cincinnati, Ohio, assignors to Electric Eye Equipment Company, Danville, Ill., a corporation of Delaware
Application August 29, 1949, Serial No. 112,988
3 Claims. (Cl. 271—2.6)



1. In a controlled device for a moving web having a source of supply and means operating on said web, an automatically controlled laterally-positioning device for said web comprising in combination a first signal sending device adjacent the source of supply and responsive to the lateral position of the web at that point, a second signal sending device responsive to the lateral position of the web at a point near the means operating on said web, a first signal re-

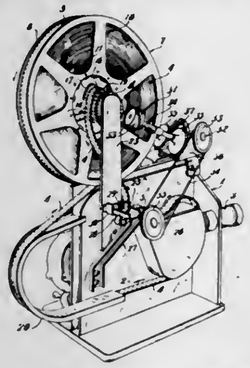
ceiving means responsive to the signals received from the first signal sending means, a second signal receiving means responsive jointly to signals from each of said signal sending devices, means adjusting the position of the first signal sending device relative to the lateral position of said web, said latter means responsive to and controlled by the second signal receiving means, and means adjusting the lateral position of the web responsive to and controlled by said first signal receiving means.

2,643,118

MOVIE FILM FEEDER WITH SIMULTANEOUS UNWINDING AND REWINDING ACTION

Harrison S. Burson, Sr., Cleveland, Ohio

Application March 23, 1950, Serial No. 151,458
2 Claims. (Cl. 271—2.18)



1. In a movie projector, a frame, a stud shaft on said frame, an arcuate channeled guide of helical shape, said guide being in encompassing relation to said shaft, a support arm carrying said guide, means slidably supporting said support arm for telescoping movement of said guide into and out of encompassing relation with said shaft, a reel positioned on said shaft and being retained stationarily thereon, said reel having a plurality of apertures in the sides thereof, said reel having a support hub at the center thereof and a film support hub radially spaced from said support hub, said film support hub comprising a plurality of circumferentially spaced rollers, said guide being inserted between said hubs of said reel, means for pulling film on said reel therefrom radially inwardly from the support hub thereof and pulling it over said guide, and a pair of driven resilient roller means carried by said frame and extending therefrom for extending through apertures in opposed sides of said reel and rotating any convolutions of film on said reel with relation thereto.

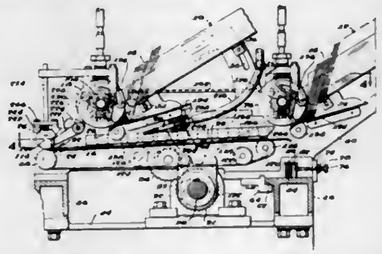
2,643,119

MACHINE FOR HANDLING GREETING CARDS OR OTHER SHEETLIKE ARTICLES

Nathan H. Morrison, Lowell, Mass., assignor, by mesne assignments, to R. R. Heywood Co., Inc., New York, N. Y., a corporation of New York

Application August 31, 1948, Serial No. 47,076
15 Claims. (Cl. 271—29)

1. In a machine of the character described, sheet feeding means comprising an inclined chute for supporting a plurality of upended sheets, said chute including at least two successive portions of different inclinations, the portion of lesser inclination being at the discharge end thereof and adapted to support a plurality of sheets prior to feeding, a rotary feeding unit associated with said chute and having its axis of rotation disposed in a horizontal plane above the discharge end of said chute and laterally spaced therefrom in the direction of movement of the sheets down the chute, said feeding unit including a feed roller having a high friction engaging surface for a portion of its periphery for frictionally engaging



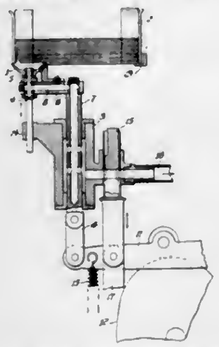
and feeding the foremost sheet in said chute, said chute being arranged with its portion of lesser inclination nearest to the orbit of said high friction surface and particularly underlying said orbit to cause the sheets to fan out at the lower ends with the foremost sheets being curved about the center of curvature of the orbit of rotation of the high friction surface, and suction means cooperating with said friction engaging surface to draw the foremost sheet into engagement therewith during the withdrawing operation.

2,643,120

SUCTION BLANK FEED FOR PRINTING, WRAPPING AND OTHER MACHINES

Donald Richard Patrick Jackson, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company

Application November 8, 1949, Serial No. 126,078
In Great Britain November 16, 1948
2 Claims. (Cl. 271—32)



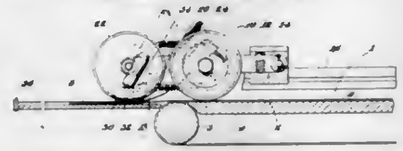
1. A suction feed comprising a support for a pile of blanks, a feed member supported for movement toward and away from said pile to effect successive withdrawal of the end blanks of said pile, a sucker carried by said member and having a suction opening, and suction means connected with said sucker, said sucker being positioned on said member to engage with a portion of the blank to be withdrawn adjacent an edge of the blank, and to extend beyond that edge, whereby a portion of the sucker opening is exposed and the edge portion of the engaged blank is flexed toward the sucker.

2,643,121

SHEET FEEDING APPARATUS

Headley Townsend Backhouse, Sunningdale, England

Application November 9, 1949, Serial No. 126,267
In Great Britain February 21, 1949
4 Claims. (Cl. 271—50)



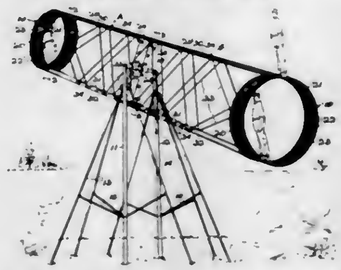
1. Sheet feeding apparatus comprising a layboard, front registering lays, conveyor means for feeding a succession of sheets along the layboard, said conveyor means comprising a feedboard supporting endless conveyor tapes with supporting rollers therefor, at least one freely rotatable running-in wheel located above said tapes and pressing the sheets into frictional contact with said tapes, said running-in wheel being rotated merely by frictional engagement with the sheets conveyed by the tapes, at least one suction wheel positioned between said running-in wheel and the front lays to make suctional engagement with a sheet of which the rear edge has left the running-in wheel, and driving means interconnecting said running-in wheel and said suction wheel for driving the latter from said running-in wheel.

2,643,122

OCCUPANT PROPELLED AMUSEMENT DEVICE

Clay C. Beckett, Washington, D. C.

Application November 1, 1949, Serial No. 124,745
3 Claims. (Cl. 272—33)



1. An acrobatic device comprising a beam pivotally mounted for rotation in a vertical plane about a transverse axis thereof, a pair of spaced parallel rings secured to each end of the beam, said rings being disposed in vertical planes parallel to the plane of rotation of the beam and being fixed against movement relative to the beam, horizontal cross struts between each pair of rings and rigidly connecting said rings together, said struts being disposed at spaced intervals about the rings, a circular band disposed between the rings of each pair, said band being interwoven with said struts to serve as a continuous walkway for an acrobat on both the exterior and interior of the rings.

2,643,123

GRIP TYPE EXERCISING DEVICE

Joseph Milton Spinks, Atlanta, Ga.

Application August 24, 1949, Serial No. 111,985
1 Claim. (Cl. 272—68)



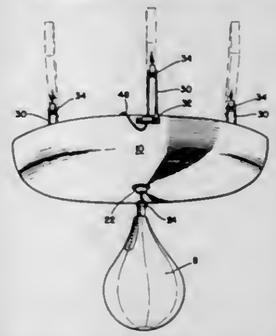
An exercising device comprising, in combination: a pair of bars; handle means carried by the respective ends of each of said bars, at least one of said handle means revoluble about the axis of its bar; and means providing a spaced pivotal connection intermediate the ends of said bars whereby when the device is grasped with one hand at each end of the bars and the grip by each hand is alternately relaxed and increased the bars are allowed to work back and forth and the revoluble handle rolls in the hand.

2,643,124

FILLABLE BACKBOARD FOR PUNCHING BAGS

Raphael J. Malone, Seattle, Wash.

Application February 10, 1950, Serial No. 143,390
5 Claims. (Cl. 272—78)



1. A backboard for punching bags, comprising: a large, impervious, dish-shaped housing having a bag impact surface and an upwardly directed rim; means for securing a punching bag in operating position below said impact surface; a reinforcing shelf secured to the upper inner margin of said housing; an enclosing cover for said housing having an upwardly displaced annular lip on the periphery adapted to lie on said shelf with the central portion of the cover lying therebelow so as to fully enclose said housing; a plurality of flexible tension members forming the sole supporting means of said housing; means for securing said tension members when said housing is in its adjusted position; and a liquid load in said housing.

2,643,125

GOLF BALL COVER

Robert D. Juve, Copley, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application September 9, 1947, Serial No. 773,088
3 Claims. (Cl. 273—62)

1. A golf ball having a cover comprising a resin

resulting from the polymerization of a mixture



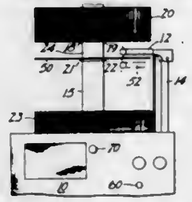
comprising 75 to 90 parts of styrene and 25 to 10 parts of a conjugated diene hydrocarbon.

2,643,126
BOMB DROPPING TOY AIRPLANE
Gerald C. Kelly, Apponaug, R. I.
Application December 16, 1948, Serial No. 65,611
3 Claims. (Cl. 273—95)



1. A toy, comprising a pole of a height substantially greater than that of an operator, having a freely rotatable ring mounted on the upper end thereof, a model airplane and a cord attached to said ring and to the top of said airplane whereby the lower end of said pole may be rested on the ground, its upper end tilted and rotated by the hand of the operator to cause said airplane to take off from the ground and rotate around said pole and operator a substantial distance above the ground until it gains flying momentum, when said airplane may fly on said ring around the then erect upper end of said pole and land evenly or continue its flight on intermittent rotations of the upper end of the pole or by rotating said upper pole end in an elliptical orbit said plane may dive and climb in flight, a bomb rack vertically mounted within said airplane, a succession of bombs vertically superimposed on each other within said rack and manually movable means mounted on and connected to said pole and airplane for successively releasing a single bomb at a time from said bomb rack, said bombs being of cylindrical shape with an extended reduced centre portion and said bomb releasing means comprises a cylindrical bomb rack mounted vertically of said airplane body, of a diameter to receive a succession of vertically superimposed bombs therein having an open upper end and an open lower end terminating below said body and a slot substantially the height of 1½ bombs from the lower end thereof and adjacent the lower surface of the body, a releasing lever of the first class of a length substantially the distance between said rack lower end and slot substantially centrally pivotally mounted on said depending lower bomb rack end having a lower inwardly projecting arm adapted to underlie said lower bomb rack end to support the bombs, and an upper inwardly projecting arm movable into and out of said slot, manually movable means connected to said pole to tilt the lower end of said lever outwardly to release a bomb, causing said upper end to move into said slot to underlie the upper end of the next adjacent bomb and spring means operable on release of said manually movable means to tilt said lever back to a position withdrawing said upper arm from said slot, permitting said next adjacent bomb to drop with its lower end abutting the lower end of the next adjacent bomb to retain it in a cocked position on said rack.

2,643,127
RECORD PLAYER AND CHANGER
Kenneth J. Gregg and Raymond Schulze, Buffalo, N. Y.
Application May 27, 1949, Serial No. 95,796
7 Claims. (Cl. 274—10)

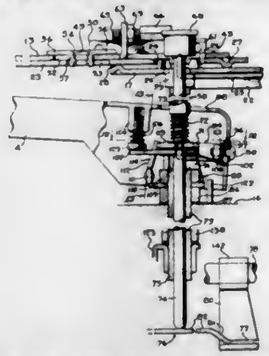


1. In a multiple record playing device, a rotatable spindle shiftable vertically to adjusted positions, motor means driving said spindle, record dispensing means carried by said spindle at a position thereon providing a record magazine space and corresponding to the position of a stack of records to be slipfitted upon said spindle from the upper end thereof, record holding means carried by said spindle at a position thereon spaced downwardly from the position of said record dispensing means, said record dispensing and holding means being positioned on said spindle in upwardly spaced relation to the lower end of the spindle so as to leave below the holding means a reservoir space for played records, record playing means arranged to swing in and out of record playing positions relative to a record when supported upon said record holding means, means operable to actuate said record dispensing and holding means to release said record holding means and permit a record carried thereby to move into said reservoir space and then to actuate said record dispensing means to release a record from said magazine space to move into engagement upon said record holding means, said spindle and said record dispensing and holding means being arranged for positive movement of said spindle relative to said records.

2,643,128
RECORD CHANGER
George E. Redfield, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application May 1, 1946, Serial No. 666,379
9 Claims. (Cl. 274—10)

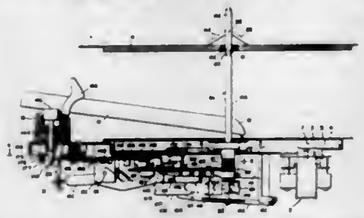
1. An ejector head for an automatic record changer comprising a supported base plate, a rotatable plate in association with said base plate, trunnion portions on one of said plates, means on the other plate providing bearing surfaces for said trunnion portions, said means also providing cam surfaces, spring means adapted to engage said cam surfaces to urge one of said plates to either of two positions, said spring means also being adapted to tie said plates together, an ejector plate in association with and shorter than said rotatable plate, means to slidably anchor said ejector plate to said rotatable plate, resilient means to normally maintain said ejector plate central of said rotatable plate to provide seats

on the ends of said rotatable plate for support of a record, and means to move said ejector plate



from its central position to dislodge said record from either of said seats.

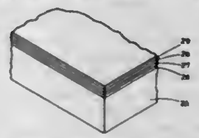
2,643,129
RECORD CHANGING DEVICE
Harvey C. Habegger, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application September 30, 1946, Serial No. 700,246
13 Claims. (Cl. 274—10)



1. A record supporting and dropping structure comprising a record centering spindle, a record support incorporated in said spindle, a stabilizing device pivoted in said spindle and movable from a retracted position in alignment with said spindle to an extended position into contact with the top surface of the uppermost record threaded on said spindle, a movable member associated with said spindle and having a single contact surface for cooperating with said stabilizing device, said member being movable to bring said contact surface into engagement with said stabilizing device for moving it into said retracted position or said extended position and a gravity controlled device operatively associated with said stabilizing device for influencing said stabilizing device to an extended position.

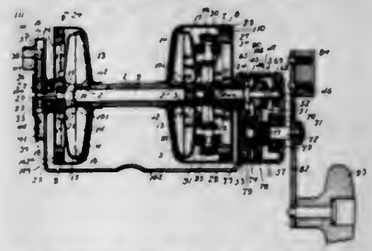
2,643,130
MULTILAYER MAGNETIC RECORD MEMBER
Otto Kornei, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application November 2, 1949, Serial No. 125,097
4 Claims. (Cl. 274—41.4)

2. A record member for use with a ring-type head in magnetic recording devices including two layers of magnetic material having different magnetic properties for the purpose of providing a better over-all response from the system over a given frequency range comprising: an outside layer of magnetic particles in a binder, less than 0.0003 inch thick, having a given coercivity, and adapted to be operated in close proximity with a ring-type head; and a second layer of magnetic particles in a binder con-



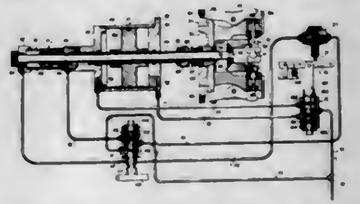
tiguous with said outside layer and having a coercivity less than half that of said outside layer but having a value of coercivity of at least 110 oersteds; whereby high-frequency signals in said range are accentuated in said outside layer and low-frequency signals in said frequency range are accentuated in said second layer.

2,643,131
POWER TRANSMISSION
James T. King, Burbank, Calif.
Application November 14, 1947, Serial No. 786,041
9 Claims. (Cl. 242—84.7)



1. In apparatus wherein is provided a cradle, a spool rotatably mounted in said cradle and means to rotate said spool; the improvement which comprises a spool assembly consisting of a hollow elongated hub, right and left open ended shells fixed to said hub adjacent its ends, the ends of the hub projecting into the respective shells, and internally threaded rings fixed in the respective shells adjacent their open ends.

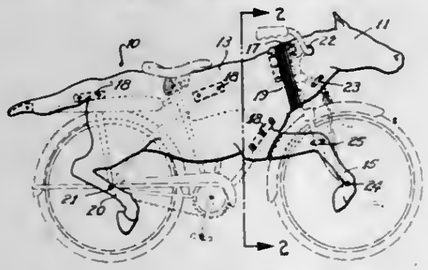
2,643,132
INDEXING CHUCK
Fred Hunziker, University Heights, and Louis B. Courtot, Cleveland, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application September 26, 1950, Serial No. 186,846
11 Claims. (Cl. 279—5)



7. An indexing chuck and actuator therefor comprising a chuck body, means formed on said

body for mounting it on the rotatable spindle of a machine tool, a plurality of work-gripping jaws mounted for radial motion on said body, jaw-actuating means mounted on said body for opening and closing said jaws, said jaws being rotatably mounted on said body for indexing, means for indexing said jaws, a jaw-actuating piston and cylinder assembly and a jaw-indexing piston and cylinder assembly, means connecting the jaw-actuating piston to said jaw-actuating means and the jaw-indexing piston to said jaw and indexing means, a jaw-opening control valve, a first line from said valve to the jaw-actuating cylinder connected so as to cause the piston to move to open said jaws, a jaw-indexing control valve, a second line between said latter valve and said jaw-indexing cylinder connected so as to cause said jaw-indexing cylinder to engage and hold one of said jaws against rotation, means to bleed said second line to atmosphere upon actuation of said jaw-opening control valve, and means for mounting said cylinders on the frame of the machine tool.

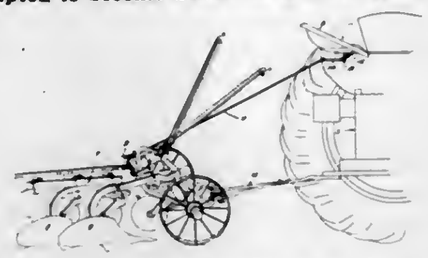
2,643,133
ANIMAL SIMULATING ATTACHMENT FOR BICYCLES
Adam Lucchesi, Bergenfield, N. J.
Application July 17, 1950, Serial No. 174,307
1 Claim. (Cl. 280—1.202)



A pictorial amusement device, resembling an animal, adapted to be attached to a bicycle, comprising separate elements resembling the animal's head, forelegs and body, the body elements including rear legs integral therewith, the head elements being flexibly secured to the body elements, each of the elements provided with openings whereby the handle bars of the bicycle can be inserted in the head elements, the rear axle in the rear leg portions of the body elements, and the front axle in the foreleg elements to retain the device on the bicycle.

2,643,134
OVERLOAD CABLE RELEASE
Harding H. Hansen, Linn Grove, Iowa
Application January 2, 1951, Serial No. 203,977
1 Claim. (Cl. 280—150)

A device for securing the clutch control cable of an agricultural machine to a tractor, comprising a tubular housing, means for securing the housing to a tractor, a tube having an elongated opening formed in the wall thereof, secured on one end of said cable, a leaf spring secured on said tube with portions thereof extending outwardly and inwardly through said elongated opening, said spring engaging the wall of the housing and cable when fitted in said housing, normally holding said tube in the housing by frictional contact, an annular flange formed on one end of the tube adapted to engage one end of said tubular housing restricting movement of the tube within the housing, and said tube adapted to become disconnected from said housing when abnormal tension is applied to the cable.

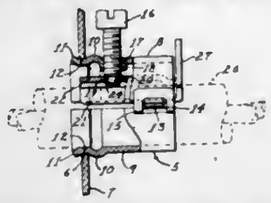


2,643,135
STRIP FEEDING MECHANISM
Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application September 18, 1950, Serial No. 185,478
18 Claims. (Cl. 282—7)



1. An autographic register or like device, including a writing table over which continuous superposed strips of series connected record forms are advanced past a recording position, a carbon paper carrier arranged alongside said writing table for relative reciprocatory motion longitudinally thereof, a strip feeding device for advancing the forms, and a feeding mechanism for the carbon paper carrier energized by operation of the strip feeding device for reciprocating said carbon paper carrier through step by step movements.

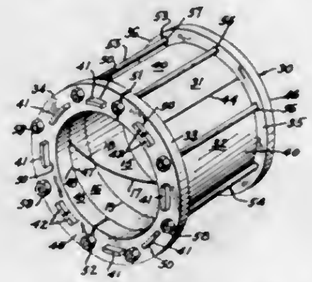
2,643,136
OUTLET BOX CABLE CONNECTOR
Ermen C. Schesser, Rockford, Ill.
Application May 12, 1948, Serial No. 26,700
5 Claims. (Cl. 285—6.5)



1. A connecter for the purpose described, comprising a pair of elongated sheet metal members of arcuate cross-section adapted together to loosely embrace an electrical cable that is to be clamped between said members, one of said members having diametrically opposed openings provided therein in one end portion thereof, the other of said members having diametrically opposed lugs projecting outwardly from the corresponding end portion thereof and received loosely in said openings to loosely pivotally connect the members together at one end and keep the members in permanently assembled relationship, anchoring means formed integral with the other free end portion of said members arranged

to be disposed in position for anchoring of that end of said members within an opening in an outlet box, or the like, when the members are spread apart after entry in said opening, an elongated sheet metal clamp element disposed between the aforesaid members and adapted to cooperate with one of said members to clamp therebetween the electrical cable, and a screw threaded in a hole provided in the other of the aforesaid members intermediate the ends thereof and permanently swivelly connected at its inner end to said clamp element intermediate the ends thereof so as to keep the clamp element in permanently assembled relationship to the rest of the connecter and operate the same to grip the cable and spread the free ends of said members to effect anchorage thereof in the aforesaid opening.

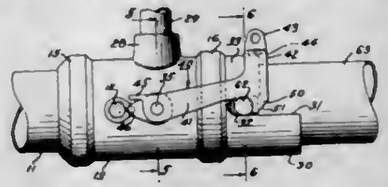
2,643,137
PIPE REPAIR CLAMP
Telford L. Smith, South San Francisco, Calif.
Application December 11, 1951, Serial No. 261,011
8 Claims. (Cl. 285—99)



5. A device for repairing or coupling pipes including in combination a pair of identical semi-cylindrical sleeves having at each end a series of evenly spaced-apart projecting fingers substantially identical in size and shape except for a pair of half-sized fingers at each of the edges where the sleeves abut so that the two abutting sleeves form together a cylindrical sleeve and the abutting fingers then form a finger substantially identical in size with the full sized fingers; two identical pairs of split collars each having a radial flange and an axial flange, said radial flange having openings adapted to receive said fingers, all said openings being full sized openings and being inset from the edge so that none of the openings are open-end slots, said radial flange also having a plurality of bolt openings, said axial flange having an inclined inner lip; gasket means adapted to fit inside said sleeve and having inclined outer faces that bear against the inclined lips of said axial flanges; and bolts extending longitudinally between said collars and forcing them inwardly against said gasket means.

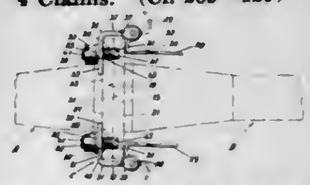
2,643,138
PIVOTED DETENT PIPE COUPLING
Mayhelt Jacobs, San Francisco, and Peter F. Dragon, Oakland, Calif.; said Dragon assignor to Pacific Pipe Company, Oakland, Calif., a corporation of California
Application March 3, 1949, Serial No. 79,426
1 Claim. (Cl. 285—172)

A coupling for joining adjacent ends of a pair of pipe sections comprising a male coupling member in the form of a ring secured to one of said sections in spaced relation to an end thereof, a pair of studs projecting diametrically outwardly from said ring, said studs having frusto-conical walls tapering toward the center of said ring, a cylindrical female coupling member having one end thereof supported by the other pipe section adjacent an end thereof and with the major portion thereof projecting axially beyond such end, such female coupling member having a pair of diametrically disposed and axially extending stud receiving slots opening through the opposite end thereof, said female coupling member being provided with a generally semi-cylindrical extension projecting axially beyond the outer ends of the upper walls of said slots and the free edges of said extension being aligned with the lower walls of said slots to provide means for guiding said studs upon entry of the male coupling member into the projecting end of the female coupling member, said female coupling member being provided with a rib disposed inwardly of its free end defining a circumferential space between same and said free end for receiving said ring in the assembled position of the coupling members and said rib having an inwardly bevelled face for guiding the



adjacent end of the first named pipe section into said female coupling member, a swingable latch member including a pair of arms disposed on opposite sides of said female coupling member and having corresponding ends thereof pivoted to the female coupling member on an axis extending diametrically thereof and parallel to the axes of said studs, stud engageable detents carried by the other ends of said arms normally overhanging the slots and having outer inwardly bevelled surfaces engageable by said studs upon assembly of the coupling members and operative to swing said arms about said pivotal connections thereof for passage of said studs into said slots, said detents further having inner arcuate surfaces engageable with said studs, a pair of diametrically disposed outwardly projecting stop members supported on said female coupling member, the pivoted ends of said arms being provided with extensions rearwardly of the pivotal connections thereof and providing stop members engageable with said first stop members upon swinging of said arms by said studs and for limiting the range of such swinging movement.

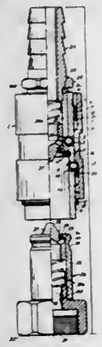
2,643,139
QUICKLY OPERABLE CONDUIT CLAMP
Jean Willard Hamilton, Montclair, N. J., assignor to Airtron, Inc., Linden, N. J., a corporation of New Jersey
Application March 22, 1951, Serial No. 216,951
4 Claims. (Cl. 285—129)



1. A quickly operable conduit clamp for interconnecting conduit elements having abutting end

connection flanges with axially aligned holes therein, the clamp comprising a lever-supporting element adapted for association with one such connection flange and having plural studs each adapted to extend with a close fit through one of said holes in said one flange and into an aligned one of said holes in the other of such connection flanges, whereby to hold the thus related conduit elements against material relative rotation about a common longitudinal axis; and a clamping lever pivotally carried by said supporting element and adapted to be swung into clamping engagement with the said other connection flange.

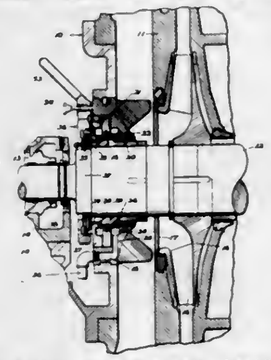
2,643,140
COUPLING
Albert T. Scheiwer, Erie, Pa.
Application April 29, 1948, Serial No. 23,973
4 Claims. (Cl. 285—193)



1. A coupling comprising a female member having an integral cylindrical shell, longitudinally spaced cam members carried by said shell, male members having peripheral grooves formed therein, said male members disposed in opposite ends of said shell, a sleeve telescopically and slidably disposed on said shell, locking means on said sleeve, said locking means having opposed camming portions engaging said spaced cam members carried by said shell of said female member, said cam members engaging said peripheral grooves, said camming portions being integral with said sleeve.

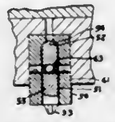
2,643,141
SHAFT SEALING DEVICE FOR PUMPS, COMPRESSORS, AND SIMILAR APPARATUS
Lorton W. Bryant, Connersville, Ind., assignor, by mesne assignments, to Dresser Industries, Inc., a corporation of Pennsylvania
Application September 28, 1950, Serial No. 187,294
4 Claims. (Cl. 286—11.14)

1. In a stationary shaft and casing seal of the type embodying concentric annular sealing surfaces on said shaft and casing and a rotatable nut-like member in threaded engagement with said casing having a wall opposed to and adjacent said sealing surfaces, a sealing member adapted to be moved by said nut-like member into and out of sealing contact with said sealing surfaces comprising a pair of metal rings of the same external and internal diameters detachably connected to one another in side-by-side relationship, each of said rings being divided along substantially radial lines into a plurality of pieces detachably connected to one another, the outer side of one of said rings having adherent thereto a non-metallic facing of relatively soft, flexible material adapted to contact said sealing surfaces when the sealing member is moved into sealing position, the outer side of the second ring having an annular ridge projecting outwardly there-



from adapted to contact the wall of said nut-like member and transmit the thrust thereof to said sealing member when said nut-like member is so rotated as to move said sealing member toward sealing position.

2,643,142
FLOATING TOOL MOUNTING MEANS
Domnic V. Stellin, Chicago, Ill.
Application October 24, 1949, Serial No. 123,184
2 Claims. (Cl. 287—20)

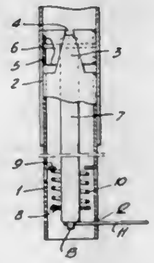


1. In a hammer assembly, a hammer block, an auxiliary hammer holder in said block having a cavity extending lengthwise therein and having aligned openings through the side walls contiguous with the cavity, a hammer received with clearance all around within said cavity, said hammer having an exposed working end extending beyond said holder and an opening extending transversely therethrough in alignment with the openings in the adapter walls when in the assembled relation, and a cross pin within said hammer opening and having its ends loosely positioned within the aligned openings in said holder and including a spherical section intermediate its ends having a sliding fit in said hammer opening.

2,643,143
LOCKING DEVICE FOR TELESCOPIC STRUCTURES
Åke Torgny Bergqvist, Finspong, Sweden
Application January 5, 1949, Serial No. 69,340
In Sweden September 30, 1948
1 Claim. (Cl. 287—58)

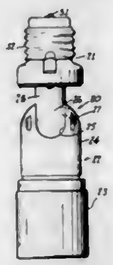
A locking device for telescopic structures comprising in combination, an outer tube, an inner tube slidably mounted in said outer tube, a sleeve member loosely mounted in said outer tube, said sleeve member being formed with a tapered slit extending along the entire length of the sleeve member to render it flexible, a

wedge-shaped member movably mounted in the outer tube for engaging the slit of the sleeve member, one of said members being rigidly connected to the inner tube, means provided inside said inner tube for axially moving one of said relatively movable members with relation to the other of said members for causing the wedge member to engage the tapered slit of the sleeve member for expanding the sleeve upon move-



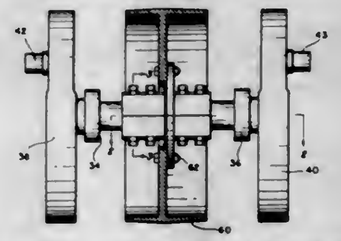
ment of said means in one direction and allowing the sleeve to contract upon a movement of the said means in the other direction, a spring load on said means for effecting displacement thereof in said other direction, said inner tube being provided with a port in its wall, and a lever connected to said means and projecting beyond the inner tube through said port in the wall thereof for moving said means in the said first-mentioned direction against the action of said spring load.

2,643,144
SWIVEL UNIT
Nathan Rodney Schwartz, New York, N. Y., assignor to Naras Research, Inc., New York, N. Y.
Application August 3, 1950, Serial No. 177,436
4 Claims. (Cl. 287—87)



2. A swivel unit comprising a hollow cylindrical housing terminating at its upper end in a rounded upper portion and having a slot extending from the apex of the housing to a point therebelow, a hollow swivel member in said rounded upper portion, means integral with said housing engaging said swivel member retaining said swivel member fixedly in said housing, a one-piece nipple, said nipple rotatably engaged in said swivel member, means cooperating between said nipple and said swivel member limiting the rotative movement of said nipple, and spring means in said swivel member exerting pressure against the sides of said swivel member.

2,643,145
BUILT-UP CRANKSHAFT FOR RECIPROCATING MACHINERY
Carl Samuel Sundbom and Carl Victor Winquist, Seattle, Wash., assignors to Mill Engineering & Supply Co., Seattle, Wash.
Application June 18, 1949, Serial No. 100,042
2 Claims. (Cl. 287—111)



2. A built-up crank shaft for reciprocating gang saw machinery, comprising: two axially aligned stub shafts disposed in end abutting relationship; one of said shafts having an axial detent and the other having an axial opening in which said detent is positioned; an elongated key; said shafts having connecting longitudinal keyways in their adjacent portions, and said elongated key being positioned in said keyways; a coupling member split longitudinally into two halves, said coupling member being cylindrically bored and accommodating said shafts and one of said halves having a longitudinal recess accommodating and securing the outer portion of said elongated key; two groups of bolts and nuts, said halves being secured together by said two groups of bolts and nuts, said groups being parallel and disposed on opposite sides of said shafts, said shafts having transverse grooves in which the adjacent portions of said bolts are positioned; said coupling member having on its central portion and integral therewith a single annular transversely extending flange which is split at the plane of abutment of said two halves of said coupling; a pulley having a single inwardly extending annular flange; means for removably connecting said flanges together in side abutting relationship; and each shaft having two cylindrical enlarged portions on its outer end portion, the outer enlarged portion being larger than the inner enlarged portion, the outer portion being adapted for the mounting of crank means and the inner portion providing a seat for bearing means.

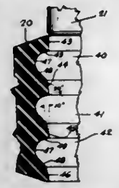
2,643,146
END CONNECTION FOR PUSH-PULL CABLES
John F. Morse, Hudson, Ohio
Application September 18, 1950, Serial No. 185,420
9 Claims. (Cl. 287—119)



1. An end fitting for the core of a push-pull cable, said fitting having an axial bore of greater internal diameter than the external diameter of the core, a ring in the bore sub-dividing the bore into two chambers, said bore having an inner reduced extension, said core being receivable in the bore and supported at the end by the reduced extension of the bore and at a midway point by the ring, means at the entrance

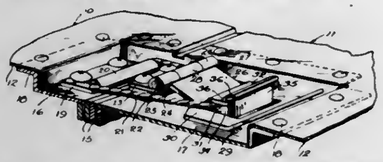
to the bore to support the core centrally of the bore, and pressure screws threaded in one side of the fitting and adapted to enter the chambers and bear against one side of the core to distort the core and force it against the opposite walls of the chambers.

2,643,147
PACKING
Mearick Funkhouser and Paul J. Long, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 1, 1948, Serial No. 47,215
3 Claims. (Cl. 288—19)



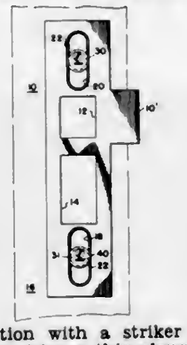
1. A packing adapted to fit about a reciprocative rod to prevent movement of liquid axially of the rod in one direction of reciprocative movement and permit flow of liquid axially of the rod in the reverse reciprocative movement thereof, said packing consisting of a ring-shaped body of resilient material, the inner, peripheral surface of which has a plurality of alternate, annular grooves and annular rod contacting areas, each of corresponding areas having corresponding edges of substantially the same diameter as a rod to be received and other corresponding edges of predetermined lesser diameter than the first-mentioned edges with the rod contacting areas between said edges sloping continuously outwardly relative to the axis of the packing at an angle of approximately 10 degrees relative to the axis of the packing, the surface of the grooves meeting the smaller diameter edge portions of said areas at substantially 90 degrees relatively to said rod engaging areas and the surface of the grooves meeting the larger diameter edges of said areas at a relatively wide obtuse angle substantially greater than a right angle, said areas each forming thereby an annular surface on an annular inwardly directed projection on said body with said body extending solidly radially outwardly of said areas along the full axial length of said areas.

2,643,148
TRUNK LATCH TYPE FASTENER
Donald H. Gaston, Los Angeles, Calif., assignor to the United States of America as represented by the Secretary of the Army
Application May 18, 1950, Serial No. 162,628
6 Claims. (Cl. 292—249)



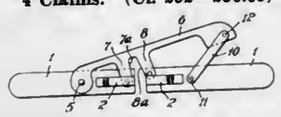
6. In a trunk-lock type of fastener of the kind wherein a loop pivoted to one article is engaged by a hook carried by a lever pivoted on another article so as to draw said articles together as said lever is swung from an open to a locked position with said loop engaged by said hook; the improvement comprising said lever being formed from sheet metal, said hook being a forwardly struck portion of the stock of said lever providing an opening through said lever, latch means carried by the second mentioned article, said latch means extending through said opening in said lever and engaging said hook when said lever is in said locked position to retain the same in such position, and said latch means also being operative simultaneously to close said hook and prevent distortion of the same.

2,643,149
STRIKER PLATE
Gustave E. Mager, Hamden, Conn., assignor to Edwin H. White, Baltimore, Md.
Application November 1, 1950, Serial No. 193,450
1 Claim. (Cl. 292—341.18)



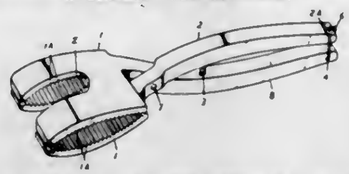
The combination with a striker plate for a door casing comprising a thin elongated rectangular strip having means adjacent its center for receiving a latch, a pair of elongated apertures each having extended parallel edges located adjacent each end of the strip, the inner extended edges of each aperture being beveled and serrated, a circular locking disk for each aperture having a serrated beveled edge adapted to overlap the serrated beveled edges of the said apertures, each of the disks having an opening located eccentrically therethrough for receiving a holding means for pressing the edges of the serrated disks in contact with the two opposite parallel serrated sides of the said apertures for securing the plate and disk to the casing.

2,643,150
CLAMPING RING CLOSURE
Arthur Charles Giles, Birkenhead, England
Application November 4, 1948, Serial No. 58,182
In Great Britain January 8, 1948
4 Claims. (Cl. 292—256.69)



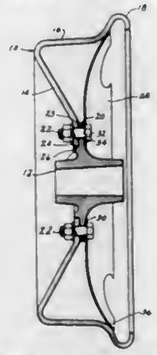
1. A clamping ring closure device comprising a divided channel section ring, engageable means on both ends of the divided ring, a latch pivoted near to one end of the divided ring and dimensioned to overlap the other end of the ring, said latch having two projecting tongues the opposed edges of which diverge from each other towards their outer ends and which are positioned to engage with said engageable means, and a link pivotally connected to the overlapping end of the latch and to the overlapped end of the ring, said link being arranged to effect a preliminary contraction of the ring when the latch is turned about its pivot towards the ring and the final contraction effected when the edge of the tongue remote from the latch pivot bears on the engageable means on that end of the ring near to which the latch is pivoted while the opposed edge of the other tongue co-operates with the engageable means on the other end of the ring, and effects the final contraction, the tongues, when the ring is so contracted holding it in its contracted position.

2,643,151
FISHERMAN'S PLIERS
Tony R. Zupancic, Cleveland, Ohio
Application June 27, 1950, Serial No. 170,634
2 Claims. (Cl. 294—118)



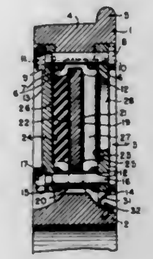
1. A pliers of the class described comprising two complementary wide opposing jaws with integral handle portions, each of said jaws having an arcuate shaped inner surface and the outer surface in convex form, a part of the central portion of the jaws cut out in a U-shaped form extending inwardly from the front edge of the jaws, the arcuate-inner surface of the jaws having a plurality of serrations formed transversely therein, and a space provided between the said inner surfaces of the opposed jaws when such jaws are in a closed position.

2,643,152
SOUND DEADENING MEANS FOR CAR WHEELS
Otto H. Brauer, Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application October 5, 1950, Serial No. 188,637
3 Claims. (Cl. 295—7)



1. A wheel structure comprising a generally cylindrical hub having a radially extending outer flange, a sheet metal body member having a ring portion secured to said flange, a web portion slanting radially outwardly and axially away from a transverse plane through said flange, and a tubular, axially extending rim portion connected to said web and having a free peripheral edge, and a sound-deadening member secured to said flange and extending radially outwardly and axially away from said web on the opposite side of said transverse plane and into contact at its outer peripheral edge with said rim portion in the region of its free peripheral edge.

2,643,153
RESILIENT WHEEL
Antonio Boschi, Milan, Italy, assignor to Societa Applicazioni Gomma Antivibranti, Milan, Italy
Application February 17, 1948, Serial No. 8,928
In Italy February 28, 1947
4 Claims. (Cl. 295—11)

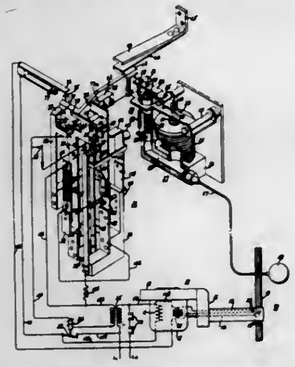


1. An elastic wheel having a rigid hub and rim and a resilient web connecting said hub and rim, said web comprising a plurality of rigid annular members radially attached alternately to said hub and rim, and an elastic disc interposed between each adjacent pair of said rigid members and adapted to transmit thrust from said hub to said rim by shear-flexion stress, the outer rigid annular members having relatively large cut away portions axially opposite the side faces of the next adjacent elastic disc, thus exposing substantial areas of said discs to the surrounding air, and defining radial spokes in said outer annular members which, upon rotation of the wheel, serve as fan blades to increase the circulation of said air across said exposed areas, and thereby increase the radiation of heat from said elastic discs.

2,643,154
CONDITION RESPONSIVE DEVICE
Albert Wellman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application May 31, 1946, Serial No. 673,338, now Patent No. 2,550,507, dated April 24, 1951. Divided and this application May 26, 1949, Serial No. 95,435
4 Claims. (Cl. 297—8)

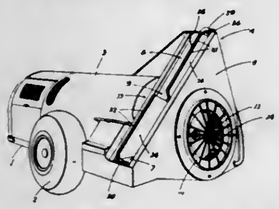
1. A temperature responsive device comprising a first pivotally mounted reversely movable control lever having operating means including an air pressure responsive bellows provided with a temperature sensitive bulb for varying the pressure within said bellows responsively to heating and cooling of said bulb, means including a nor-

mally closed valve connected with said bellows for venting air into and out of said bellows to regulate the movement of said control lever, and means including a pivotally mounted valve operating lever connected to open said valve and having one operating connection with said control lever for opening said valve responsive to movement of said control lever in one direction to equalize the pressure within and without said



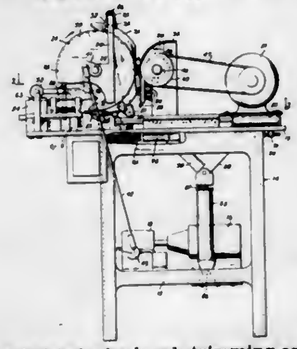
bellows thereby to limit the movement of said control lever in said one direction when said bulb is cooled, said valve operating lever having another operating connection with said control lever for opening said valve responsive to movement of said control lever in the opposite direction to regulate the pressure within said bellows thereby to limit the movement of said control lever in said opposite direction when said bulb is heated.

2,643,155
SIDE DELIVERY SPRAY MACHINE
David Porter Wright, Oakland, and Richard Harrison Fish, Morgan Hill, Calif., assignors to Air-O Fan Products Corporation, Gilroy, Calif., a corporation of California
Application April 10, 1950, Serial No. 155,082
6 Claims. (Cl. 299—37)



3. In a spray machine including a fan casing having an elongated discharge air blast slot, means for discharging an air blast outwardly through the slot, a pair of elongated vanes arranged in longitudinal end to end relation pivotally mounted longitudinally in the slot for independent oscillation transversely of the slot across the air blast, means operative simultaneously to oscillate the vanes with one thereof trailing the other, a spray pipe secured on and extending along the outer edge of each vane, and flexible supply hoses connected between a source of supply of spray material and the pipes at opposite ends of the vanes.

2,643,156
BRUSH TRIMMING AND BENDING MACHINE
Theodore Marks, John Jimenez, and Luis M. Jimenez, Bronx, N. Y., assignors to American Brush Machinery Co., Inc.
Application November 15, 1949, Serial No. 127,462
8 Claims. (Cl. 300—17)



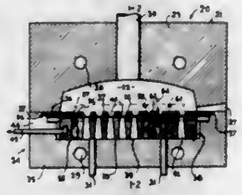
1. In a twisted wire brush trimming and bending machine, a support, a shaft rotatably carried by said support, dial discs mounted on said shaft, circumferentially spaced slots formed in the periphery of said discs adapted to support the ends of a twisted wire brush when positioned therein, guard plates extending around substantially half of the peripheral surface of each of said discs terminating short of the lowermost station of said discs and adapted to prevent the displacement of such brush from said slots, a latch positioned below said lowermost station of said discs and adapted to removably retain such brush within said slots.

2,643,157
BRISTLE SETTING
Kenneth V. Hardman, Upper Montclair, and Arthur J. Lang, Cedar Grove, N. J., assignors to H. V. Hardman Company, Inc., a corporation of New Jersey
Application February 27, 1952, Serial No. 273,710
9 Claims. (Cl. 300—21)



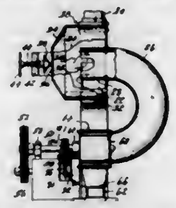
1. In setting bristles the method which comprises assembling the bristles with the butts up within the ferrule, applying over the butts a bristle setting composition that is flowable, heat thickenable, and heat curing, causing the setting composition to penetrate downwardly between the bristles, introducing high frequency energy into the setting composition, in direction generally perpendicular to the length of the bristles and in a narrow zone at the level at which the penetration of the setting composition is to be arrested, the high frequency energy being regulated to cause an elevated temperature as high at least as the temperature of rapid thickening of the said composition to non-flowable condition and below the temperature of deterioration of the bristles and the result being thickening of the said composition in the narrow zone to non-flowable condition and the establishment of a floor limiting the depth of penetration of the composition between the bristles.

2,643,158
METHOD OF MAKING MOLDED BRUSHES
Nicholas T. Baldanza, Rutherford, N. J., assignor, by mesne assignments, to Columbia Protektosite Co., Inc., Carlstadt, N. J., a corporation of Delaware
Application June 25, 1947, Serial No. 756,889
4 Claims. (Cl. 300—21)



1. A method of manufacturing a brush utilizing injection molding of thermoplastic resinous material comprising the steps of inserting brush tufts into spaced apart openings provided in a wall of a mold cavity in forming a bristle supporting back, reducing the cross sectional area of said openings after said insertion to clamp the tufts under pressure effective to seal the clamped region of the tufts against leakage flow preparatory to injection molding of said back, and injecting said material under heat and pressure into the mold cavity in a fluid state while maintaining said sealed clamping until fusion of said material and tufts takes place upon cooling.

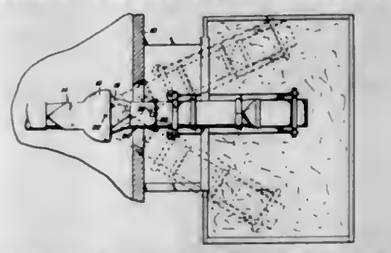
2,643,159
GRAIN CONVEYER
Donald Leon Brackett, Waterloo, Iowa, assignor of two-thirds to General Sheet Metal Works, Waterloo, Iowa, a partnership
Application July 22, 1950, Serial No. 175,358
8 Claims. (Cl. 302—23)



1. A pneumatic grain conveyor comprising suction means for sucking up a mixture of grain and air, means including a separation chamber for separating the air from the grain, blower means for producing an air blast, whereby simultaneously said suction is produced, means for feeding the separated grain into the air blast, and means for introducing supplemental air into the air stream through the separation chamber.

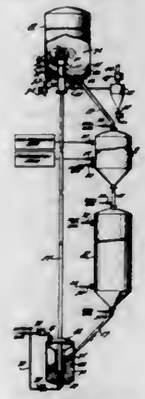
2,643,160
UNIVERSAL TRAVELING UNLOADER SUCKER FOR COTTON GINS
Leo J. Zeig, Hearne, Tex.
Application September 20, 1949, Serial No. 116,800
2 Claims. (Cl. 302—58)

1. A universal traveling unloader for cotton gins comprising a suction head for connection with a gin, a suction tube assembly having a horizontal portion which at one end is communicating with and directly attached to said head, a supporting track having a level upper horizontal supporting surface intermediate the ends of said horizontal portion, an elongated support roller extending longitudinally of and dependingly mounted upon the bottom surface of said horizontal portion and resting upon said supporting surface, a vertical pivot connecting adjacent end portions of said portion and said



suction head for horizontal traversing oscillating movement about the vertical axis of said pivot, said suction tube assembly having a vertically disposed inlet tube, a horizontal pivot connecting the upper end of said inlet tube to the other end of said horizontal portion for vertical swinging movement of said tube and an extension slidable upon the lower end of said tube.

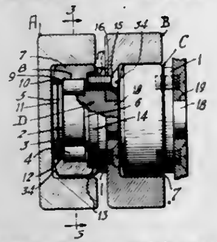
2,643,161
ART OF DISENGAGEMENT OF GASES FROM FLUENT SOLID PARTICLES
Robert M. Shirk, Lindamere, Wilmington, Del., assignor to Houdry Process Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 13, 1949, Serial No. 87,232
3 Claims. (Cl. 302—66)



1. In the process of circulating fluent solid granular particles wherein such particles are elevated by a lift gas through an upright confined lift path and discharged into a disengaging zone considerably wider than said path, the method which comprises maintaining a supported layer of solid particles at the bottom of the disengaging zone by continuously withdrawing particles from the bottom of said layer while continuously supplying discharged particles disengaged from gas to the surface of said layer by permitting such particles to fall freely from an attained

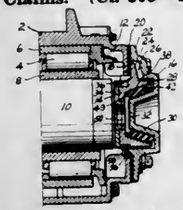
height to such surface, controlling the rate of withdrawal to maintain such surface at a level below that of discharge of the solid particles from the lift path into the disengaging zone, and withdrawing lift gas from said disengaging zone at a level between said surface and said discharge level.

2,643,162
ANTIFRICTION CARRIAGE ROLLER
Victor L. Barr, Philadelphia, Pa., assignor to Roller Bearing Company of America, Trenton, N. J., a corporation of New Jersey
Application August 1, 1950, Serial No. 176,958
6 Claims. (Cl. 308—6)



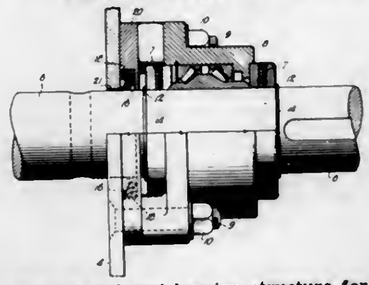
1. A carriage roller comprising a body portion having a base flange provided with openings for fastening elements to secure said body portion on another element, a bearing stud projecting from said base flange centrally thereof and having cylindrical roller raceway, a tread ring rotatable on said bearing stud and having a roller raceway in coaxial spaced relation to said raceway on the bearing stud, and rollers interposed between said raceways, there being a circumferential shoulder at each end of said raceway on the bearing stud to hold said rollers against longitudinal movement and there being an annular shoulder at the end of the raceway on said tread ring opposite said base flange to abut the juxtaposed ends of said rollers for limiting movement of said tread ring longitudinally in one direction, and means for limiting longitudinal movement of said tread ring in the other direction.

2,643,163
RAILROAD JOURNAL BOX
Richard J. Brittain, Jr., Berkeley Heights, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 15, 1949, Serial No. 127,495
12 Claims. (Cl. 308—41)



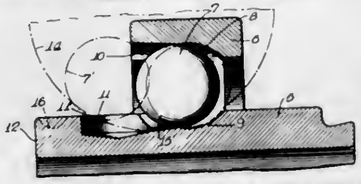
1. In a journal box having an axle journalled for rotation and axial shifting therein, an end cap removably secured to the box, a thrust block spaced from the end of the axle, the end cap having an internal recess open towards the box and an external and smaller recess open away from the box, said recesses having a common dividing wall projecting inwardly towards the axle from the end cap, the thrust block having a portion extending into the larger recess, and internally recessed to receive the dividing wall, a cushion between the thrust block and the end cap, and mechanism demountably securing the thrust block and the cushion in unit-handling relation with the end cap.

2,643,164
PACKING AND END THRUST UNIT FOR CONVEYERS
Russell B. Maas, Chicago, Ill., assignor to Screw Conveyor Corporation, Hammond, Ind., a corporation of Illinois
Application May 31, 1949, Serial No. 96,340
1 Claim. (Cl. 308—187.1)



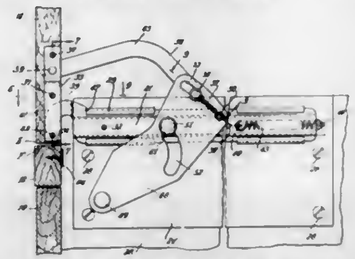
A packing seal and bearing structure for the end walls of screw conveyor apparatus comprising, in combination with a plain end wall of the conveyor housing, a conveyor shaft extending through said end wall, an end-thrust bearing unit for said shaft at the exterior face of said end wall of the conveyor housing and in fixed relation to the shaft as regards relative longitudinal movement of the latter, a clamping ring provided with an annular dust seal or packing ring encircling said shaft between said bearing unit and the exterior face of said end wall, and attaching means for securing said bearing unit to said wall and thereby maintaining said clamping ring with said seal or packing ring in tight clamping engagement with the exterior face of said end wall of the conveyor housing.

2,643,165
BALL BEARING
Howell L. Potter, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application January 24, 1949, Serial No. 72,346
4 Claims. (Cl. 308—198)



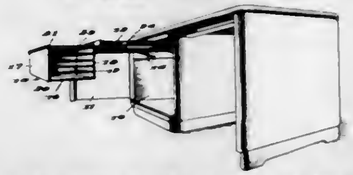
1. An inner race ring for an antifriction bearing, comprising a generally cylindrical ring having an arcuate circumferential groove therein for the reception of antifriction bearing members, said ring on its outer cylindrical surface having a generally radial hole therein located intermediate said circumferential groove and one end of said race ring, said race ring having a filler slot of generally arcuate section intersecting and joining said generally radial hole and the adjacent side of said circumferential groove and extending nearly to but terminating short of the bottom of said circumferential groove.

2,643,166
SUPPORTING MECHANISM FOR CABINET DOORS
Edward W. Swanson and Donald O. Radke, Chicago, Ill., assignors to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application December 3, 1949, Serial No. 131,018
9 Claims. (Cl. 312—8)



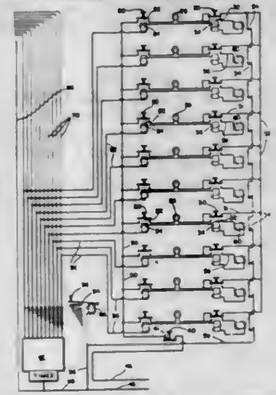
3. In a cabinet having an opening in one of the walls thereof adapted to be closed by a door, a longitudinally movable carrier element, means by which the carrier element is slidably anchored to the cabinet for extension outwardly through said opening, resilient means coupled to the element to bias said element inwardly of said cabinet, pivotal means on the end of said element by which said door is held in swingable relationship thereto, a swingable element in pivotal relationship to said cabinet and in extension over said carrier element, a stud on one of said elements, the other of said elements having a slot therein to receive said stud, and a link coupled to said swingable element and said door by which said resilient means is adapted to bias one end of said slot into stop engagement with said stud to provide a closed position for said door.

2,643,167
TYPEWRITER PEDESTAL DESK
Charles E. Wade, Chevy Chase, Md., assignor, by mesne assignments, to The Kenwood Corporation, Washington, D. C., a corporation of Delaware
Application July 11, 1950, Serial No. 173,085
3 Claims. (Cl. 312—27)



1. In a typewriter desk having a pedestal storage compartment for storage of a typewriter, a hinged door for closing said storage compartment, the combination of a typewriter supporting platform, means for movably mounting said platform to the desk in a lowered retracted position within the compartment and to an extended elevated operating position without the compartment, with a stationery compartment movably secured to said supporting platform in a manner to be stored within the storage compartment and beneath said supporting platform when said supporting platform is retracted, and to be movable outwardly from said supporting platform when said supporting platform is extended, said stationery compartment having a substantially flat top wall, depending back and side walls, a bottom wall, shelves between said top and bottom walls and an open front, whereby an extension table and an open compartment for stationery supplies are provided adjacent said supporting platform when said stationery compartment is extended from said supporting platform, and said depending side and back walls of said stationery compartment together with said hinged door cooperating to enclose the knee-line of a typist in the typing position.

2,643,168
DEVICE FOR CHECKING THE SALE OF TICKETS
Clissolde L. Louthan, Yucaipa, Calif.
Application December 26, 1950, Serial No. 202,601
6 Claims. (Cl. 312—39)

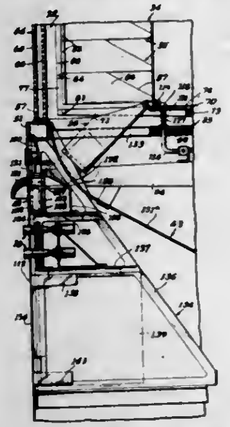


6. An electrically operated vending device, comprising: first manually operable electrical means having a series of primary switches operable by a vendee to indicate by visual signal a choice among a plurality of vendible species; a vending machine having a series of vending circuits operable to vend different types of vendible species; second manually operable electrical means having a series of secondary switches, each connected with one of said primary switches and operable by a vendor to transmit said choice of such vendee to the appropriate vending circuit of said vending machine, while maintaining said visual signal, said second electrical means being inoperable to initiate vending by one of said secondary switches unless the connected primary switch has been operated.

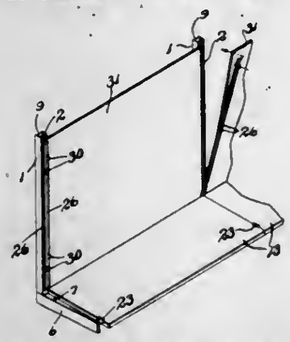
2,643,169
VENDING MACHINE
Olga V. Wells, Alhambra, Robert O. Borst, Pasadena, and Chester C. Stapp, Los Angeles, Calif.
Application April 5, 1946, Serial No. 659,952
1 Claim. (Cl. 312—94)

In a vending machine in combination, a rotatable support, a plurality of stacks of food holding trays carried by said support, means for dislodging the lowermost tray of a selected stack, a food-receiving drawer, means for causing said tray to tip to slide its contents into said drawer, means for discharging the tray from said sup-

port, means locking said drawer in contents-receiving position, and means operated by discharge of said contents into the drawer for releasing the drawer for manual movement thereof.

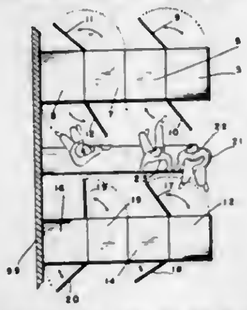


2,643,170
STORE WALL FURNITURE
Anthony Vanderveld and Charles F. Logie, Grand Rapids, Mich., assignors to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan
Application July 10, 1950, Serial No. 172,874
13 Claims. (Cl. 312—108)



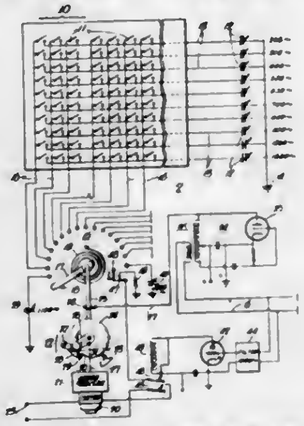
11. In a structure as described, a plurality of horizontal, generally rectangular bottom members located in abutting end to end engagement, a supporting member underneath the abutting ends of the bottom members upon which the end portions of adjacent bottom members rest, a hollow back post permanently secured at the rear end of each supporting member extending upwardly, the fronts of said back posts each having two spaced vertical series of closely spaced openings therethrough, back panels between adjacent posts having vertical edge portions bearing against the fronts of the posts, back panel holding members one at the front of each post extending lengthwise thereof having openings aligned with the openings in the front of the post with which associated and having laterally extending flanges spaced from the fronts of the posts, between which and the posts the vertical edges of the back panels are received, and connecting members passing through selected aligned openings of the back panel holding members and the fronts of the posts, for releasably connecting said members to the posts, said conecting members having forwardly extending projections in two vertical series spaced from each other adapted to have the rear vertical edge portion of a division partition received therebetween.

2,643,171
CLOTHES LOCKER
Edward C. Sterba, Western Springs, Ill.
Application May 4, 1951, Serial No. 224,605
1 Claim. (Cl. 312—287)

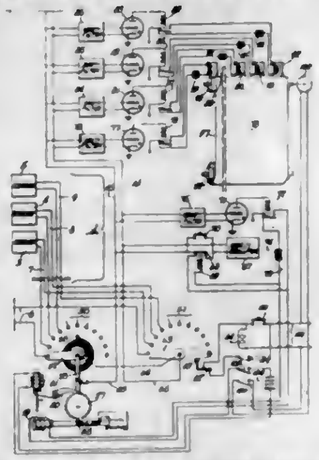


A cabinet including two sides and subdivided into a multiplicity of clothes lockers, all of said lockers being provided with hinged door elements for accessibility thereto, the said door elements being disposed in alternate relationship on each of the said sides of the said cabinet, the door elements on one of the said sides of said cabinet being arranged in staggered relationship with respect to the door elements on the other of said sides of the said cabinet, the rear wall of intermediate lockers defining a spaced relationship between adjacent door elements.

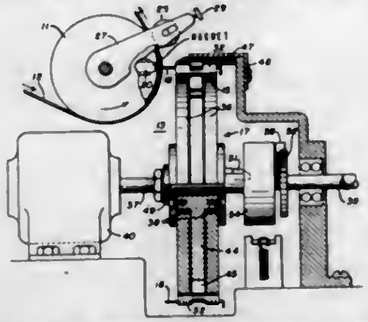
2,643,172
INFORMATION COLLECTING SYSTEM
Harold R. Reiss, Philadelphia, Pa.
Application January 25, 1950, Serial No. 140,449
11 Claims. (Cl. 346—33)



1. In a system for recording at a central station information from a number of remote stations, manually-operable information storing means at each of said remote stations, selector switch means at each of said remote stations arranged to select the stored information items, means connected to said information storing means controllable by said selector switch means for producing signals indicative of the stored information items, transmission lines extending from said remote stations to said central station to transmit said signals, selector switch means at the central station for selecting each of said lines, means for effecting operation of said last-mentioned selector switch means under control of the selector switch means at the remote stations, and means at the central station responsive to said signals for recording said information.

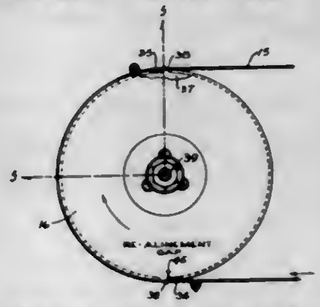


2,643,173
STYLUS DRIVE FOR FACSIMILE RECORDERS
Austin G. Cooley, New York, N. Y., assignor to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application July 16, 1949, Serial No. 105,237
20 Claims. (Cl. 346—139)



1. In a facsimile recorder having a recording medium in the form of a sheet or continuous web, means for supporting and feeding said sheet or web, an endless stylus carrier or belt provided with spaced driving teeth, a pair of idler pulleys for supporting said carrier or belt for movement adjacent said recording sheet or web, said idler pulleys being recessed to prevent positive driving engagement with said teeth on the stylus carrier or belt, a driving member concentric with one of said idler pulleys and adapted to drive said carrier or belt through engagement with the teeth thereon, spaced styli on said carrier or belt arranged to contact the recording medium and motor means for driving said member and styli in synchronism with the scanning mechanism of the remote transmitter.

2,643,174
FACSIMILE STYLUS CARRIER AND DRIVE SYSTEM
Austin G. Cooley, New York, N. Y., assignor to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application October 13, 1949, Serial No. 121,180
7 Claims. (Cl. 346—139)



1. In a facsimile recorder having a recording medium in the form of a sheet or continuous web, means for supporting said sheet or web, an endless stylus carrier or belt, a plurality of spaced styli on said carrier or belt arranged to contact the recording medium, a pair of spaced wheels for supporting said carrier or belt for movement adjacent said recording medium, motor means for driving one of said wheels and tending to propel the carrier or belt above synchronous speed, a synchronous motor connected to the other of said wheels for holding said wheel and said carrier or belt at synchronous speed and positive driving elements on said other wheel and said carrier or belt to prevent slippage between the same when the driving elements are in engagement, the spacing of the driving elements on the belt and of the driving elements on the circumference of said other wheel being correlated to provide a gap between each of the successive driving elements as the preceding driving element on the wheel disengages from driving contact with the belt.

CHEMICAL

2,643,175
TREATMENT WITH ALCOHOLIC SOLUTION TO COMPLETE COUPLING OF AZO DYES IN CELLULOSE ACETATE TEXTILE MATERIAL
Victor S. Salvin, Irvington, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application December 5, 1950, Serial No. 199,363
1 Claim. (Cl. 8—48)

In a process for dyeing cellulose acetate textile materials with naphthol base azo dyestuffs, the steps which comprise applying a mixure of the naphthol base azo dyestuff components to a cellulose acetate textile material, effecting diazotization of said naphthol base azo dyestuff components on said textile material in a diazotizing bath containing acetic acid in amounts of 0.3 to 0.5% on the weight of the diazotizing bath, subjecting said cellulose acetate textile material carrying the azo dyestuff thereon to the action of a developing bath for said azo dyestuff and, after the development of said naphthol base azo dyestuff is completed, to the action of a bath containing 20 to 30% by weight of ethyl alcohol at

a temperature of 20 to 30° C. for 1 to 3 minutes, whereby more complete coupling of said naphthol base azo dyestuff and increased penetration thereof in said cellulose acetate textile material are attained.

2,643,176

COMPOSITIONS FOR PROTECTION OF METALS AGAINST CORROSION

Aaron Wachter and Nathan Stillman, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 28, 1946, Serial No. 706,098
10 Claims. (Cl. 21—2.5)

10. A material capable of inhibiting corrosion of a metal by an atmosphere containing oxygen and water vapor, which comprises a substantially solid fibrous material containing a corrosion-inhibiting amount of an organic nitrogen-base nitrite salt having a vapor pressure of at least about 0.00002 mm. Hg at 21° C.

2,643,177

VAPOR PHASE CORROSION INHIBITION OF METALS

Aaron Wachter and Nathan Stillman, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 7, 1946, Serial No. 668,015
12 Claims. (Cl. 21—2.5)

12. The combination comprising a metal article normally corrodible by contact with water vapor and oxygen, and a substantially solid covering material enclosing said metal article, said covering material containing an organic ammonium nitrite salt having a vapor pressure of at least about 0.0001 mm. Hg at 21° C., said nitrite salt being present in an amount sufficient to maintain a corrosion-inhibiting atmosphere which, upon dispersion in water, yields a solution having a pH value of at least about 6.

2,643,178

CORROSION INHIBITION

Aaron Wachter and Nathan Stillman, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 19, 1946, Serial No. 663,608
15 Claims. (Cl. 21—2.5)

11. In a method for inhibiting corrosion of a metal normally corrodible by contact with water vapor and oxygen, the step of forming, in the immediate vicinity of said metal and subjecting said metal to, an atmosphere containing a corrosion-inhibiting concentration of an organic ammonium nitrite salt having a vapor pressure of at least 0.00002 mm. Hg. at 21° C., said atmosphere, upon dispersion in water, yielding a solution having a pH value of at least 6.

2,643,179

METHOD OF TREATMENT OF FLUORINATED ALUMINUM-BEARING MINERAL PRODUCTS

Wayne E. White, Tulsa, Okla., assignor to Ozark-Mahoning Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application July 21, 1950, Serial No. 175,289
5 Claims. (Cl. 23—14)

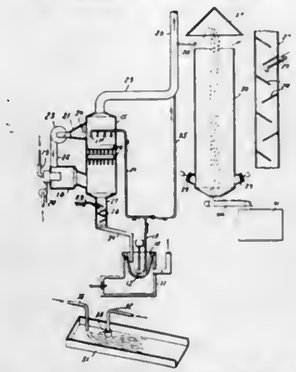
5. The method of producing a water-treating agent predominantly from waste fluorine-containing bauxite resulting from sorption of fluorine by the bauxite during purification of alkylated petroleum products which consists in digesting about one part by weight of the waste bauxite in about two parts by weight of sulfuric acid and about thirty parts of water for approximately two hours at a temperature of about 80° C., then decanting and evaporating the resulting liquid to dryness and pulverizing the fluorine-value-containing residual solid.

2,643,180

METHOD OF PRODUCING SODIUM NITRATE

Warren Standish Miller, Houston, Tex., assignor to Mathieson Chemical Corporation, a corporation of Virginia

Application November 2, 1950, Serial No. 193,627
4 Claims. (Cl. 23—102)



2. The method of manufacturing sodium nitrate prills from aqueous sodium nitrate solutions which comprises circulating molten sodium nitrate through a heating zone, superheating the circulating melt to approximately 350° to 400° C., flowing a film of the superheated melt downwardly through a mixing zone, adding aqueous sodium nitrate at a controlled rate to the flowing film at a point providing complete mixing time within the mixing zone, removing flashed steam from the mixing zone, removing sodium nitrate from the mixing zone in fused form, spraying molten sodium nitrate into a prilling tower and recycling molten sodium nitrate to a heating zone.

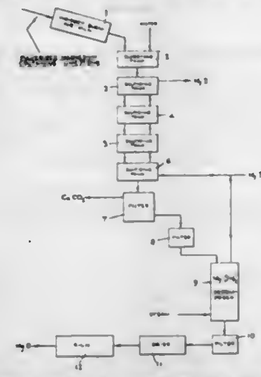
2,643,181

PROCESS OF MAKING RELATIVELY PURE MAGNESIUM OXIDE OR HYDROXIDE

George G. Megrail, Phoenixville, Pa., assignor to Warner Company, Philadelphia, Pa., a corporation of Delaware

Application August 15, 1949, Serial No. 110,376
10 Claims. (Cl. 23—201)

1. The steps in the process of producing a substantially pure magnesium compound selected from the group consisting of the oxide and hydroxide which comprise indirectly calcining a magnesium-containing limestone having a particle size less than 20 mesh by contact with a hot surface and out of contact with a flame and hot combustion gases to provide a selectively calcined, finely divided magnesium-containing limestone in which at least about 85% of the magnesium carbonate has been converted to the oxide but in which no more than about 2% of the calcium carbonate has been converted to calcium oxide; forming an aqueous slurry of said indirectly calcined, finely divided magnesium-containing limestone; passing hydrogen sulfide into said slurry, said slurry being at a temperature between about 60° and about 120° F., to convert



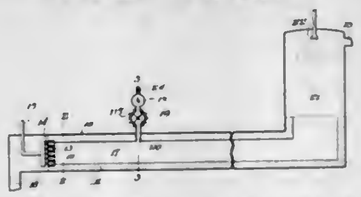
magnesium oxide to magnesium hydrosulfide; separating the solution of magnesium hydrosulfide from the solids; heating said solution to decompose the magnesium hydrosulfide to form magnesium hydroxide; and separating the magnesium hydroxide from the solution.

2,643,182

TREATING CHANNEL BLACK

Ira Williams, Borger, Tex., assignor to J. M. Huber Corporation, Locust, N. J., a corporation of New Jersey

Application July 21, 1950, Serial No. 175,177
3 Claims. (Cl. 23—209.6)



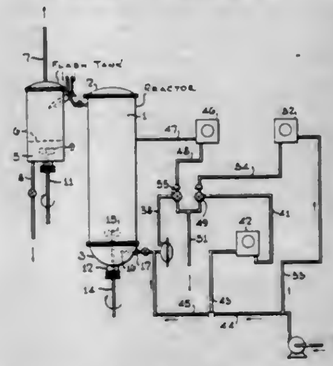
1. The process which comprises introducing into one end of an uncooled elongated unobstructed reaction chamber a burning mixture of a gaseous hydrocarbon and an oxygen-containing gas in the proportion of from about 25% to 80% of that required for complete combustion of the gaseous hydrocarbon, passing the burning mixture through the reaction chamber and forming furnace carbon black suspended in a mixture of hot combustion gases in the reaction chamber, gradually feeding uncalcined channel black into the hot combustion mixture in the reaction chamber when the combustion and the formation of furnace carbon black are substantially complete, the rate of feed being such that each pound of channel black is introduced into at least 30 cubic feet of the hot combustion mixture and regulating the rate of feed of the channel black according to the volume of the hot combustion mixture and the amount of heat available therein so as to immediately suspend the channel black substantially completely in the hot combustion mixture and to bring the resulting suspension to a temperature in the range of from about 850° C. to about 2000° C., continuing the passage of the suspension through the reaction chamber while maintaining the suspension at a temperature in said range for a period of from about 0.1 second to about 5 seconds, then removing the suspension from the reaction chamber and cooling it to below 800° C., and separating a mixture of calcined channel black and furnace carbon black from the gas.

2,643,183

REACTOR HAVING NONPLUGGING VALVE NOZZLE

George M. Efferson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 6, 1947, Serial No. 752,972
3 Claims. (Cl. 23—285)



1. An improved reactor apparatus which comprises in combination a jacketed reaction vessel, a plurality of inlet and outlet conduits attached thereto, a diaphragm actuated regulator valve positioned at the inlet end of one conduit; the valve comprising an elongated tube extending into said reaction vessel, a terminal nozzle of said elongated tube located centrally within said reaction vessel, a chamber communicating with the other terminal end of said tube, a flexible diaphragm mounted in said chamber and dividing it into a first and a second compartment; a side port on the valve tube communicating with the inlet conduit, a centrally positioned slidable shaft extending through the tube and defining the valve stem, one end of the shaft being adapted for sealing engagement with the interior of the nozzle and the other end of the shaft being attached to the diaphragm of the regulator valve within the first compartment of the chamber, a gas tight packing gland positioned within said tube between the side port and the chamber through which the shaft passes; an adjustable spring positioned in the second compartment of the chamber with one end of said spring in contact with the diaphragm at a point opposite the end of the shaft; a flow meter controller, a gas control manifold connecting the first compartment of the chamber to said flow meter controller, a flow meter positioned in the inlet conduit at a point upstream from the regulator valve, a source of gas under pressure which, with said flow meter, actuates the flow meter controller, whereby the flow through the terminal valve nozzle is maintained at a desired rate, a pressure responsive exhaust valve positioned in said gas control manifold and connected to the reaction vessel, whereby gas is discharged from the first chamber com-

partment when the pressure in the reaction vessel becomes excessive, and causing the spring to close the valve independently of the action of the flow meter controller.

2,643,184

PROPELLENT CHARGE FOR JET-PROPELLED DEVICES

Robert W. Cairns, Wilmington, Del., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

No Drawing. Application January 15, 1944, Serial No. 518,457
6 Claims. (Cl. 52—.5)

1. As a new article of manufacture, a propellant charge for a jet-propelled device which comprises a solid stick of smokeless powder and a flame-resistant film partially covering the surface of the solid stick, said flame-resistant film being formed from a composition comprising by weight from about 5 to about 25 parts of chlorinated rubber, from about 3 to about 10 parts of a plasticizer, from about 20 to about 40 parts of a pigment which is substantially nonvolatile at the combustion temperature of the smokeless powder, from about 5 to about 20 parts of a resinous material compatible with the chlorinated rubber, and a solvent, said solvent being present in amount from about 30 to about 95% by weight of the composition ready for application to the stick of smokeless powder.

2,643,185

CUPOLA MELTING OF CAST IRON

Sam F. Carter, Jr., Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a corporation of Georgia

No Drawing. Application April 27, 1950, Serial No. 158,607
7 Claims. (Cl. 75—43)

3. A process of producing low sulfur, high carbon cast iron directly from a cupola, without subsequent treatment, which comprises the steps of introducing into a cupola at a point substantially above the melting zone thereof charges containing iron metal, coke and calcium carbide in solid form, melting the metal portion of the charges by combustion of the coke in the presence of the calcium carbide, and utilizing the products of combustion to heat the carbide during descent of the charges to the melting zone.

2,643,186

PROCESS OF FORMING ARTIFICIAL BOARD

Gordon E. Tower, Corvallis, Oreg., assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg., a corporation of Oregon

No Drawing. Application April 10, 1948, Serial No. 20,353
2 Claims. (Cl. 92—21)

1. The process of forming artificial boards and boardlike articles which comprises reducing cellulosic material to fibres, mixing the fibres with water to form a slurry, thoroughly mixing into the slurry an alkaline solution of a water-soluble, thermosetting, intermediate condensation product of a phenol-aldehyde resin in the proportion of about 3.5 per cent resin solids to fibres and about 0.5 per cent paraffin size based on the dry weight of the fibres, agitating the mixture for at least one-half hour, adding an acid in sufficient quantity substantially to neutralize the mixture in order to precipitate the resin in situ and simultaneously adding sufficient alum to coalesce the size and fibres, straining the water from the slurry to form a mat of entangled, resin-bearing, sized fibres, and compressing the mat while heating it to form a finished product of sized fibres at least partially bound together by the infusible, insoluble, final condensation product of the resin.

2,643,187

PHOTOREPRODUCTION CAMERA

Leslie Linzell, Watford, England, assignor to Pictorial Machinery Limited, London, England, a British company

Application November 22, 1950, Serial No. 198,970
In Great Britain November 15, 1949
4 Claims. (Cl. 95—81)



1. A photo-reproduction camera of the type described, in combination with a magazine at one side of the camera for storing a plurality of screens arranged one behind the other in vertical planes transverse to the camera axis, a carrier for supporting each screen in the magazine and incorporating a horizontal track parallel with the plane of the screen, on which track the screen is guided for transverse travelling movement between an inoperative position in the magazine and an operative position at the back of the camera, a screen carrier at the back of the camera for there supporting a screen in a vertical operative position, said camera-back screen-carrier incorporating a horizontal track on which the screen is guided for lateral travelling movement towards and away from the magazine, the assembly of magazine screen-carriers being mounted for shifting movement as a unit in a direction normal to the planes of the screens, means for shifting the magazine screen-carriers as a unit relatively to the camera-back carrier in a horizontal direction normal to the planes of the screens to bring the tracks of the magazine screen-carriers selectively into alignment with the track at the camera back to permit transverse travelling movement of the selected screen along the aligned tracks for transfer to and from the operative and inoperative positions, a plurality of latch means associated respectively with the magazine screen-carriers and operable to lock the magazine screen-carriers unit against shifting movement as aforesaid when the track of the magazine screen-carrier associated with an operative latch means becomes aligned with the track at the camera back, and selector means for rendering operative any one of the latch means preselected at will, whereby the magazine screen-carriers are stopped and locked automatically when the track of the magazine screen-carrier associated with the preselected latch means comes into alignment as aforesaid during shifting movement of the magazine screen-carriers as aforesaid.

2,643,188

METHOD OF PREPARING A PHOTOGRAPHIC THREE-DIMENSIONAL GRAIN SCREEN AND FOR PRODUCING A PHOTOGRAPHIC DRY PLATE HAVING A LATENT THREE-DIMENSIONAL SCREEN PATTERN THEREON

Herman E. Meyer, Elwood, N. J.

Application January 13, 1949, Serial No. 70,677
12 Claims. (Cl. 95—81)

1. The method of preparing a photographic grain screen which comprises the steps of inserting in a precipitation chamber an object having a light-sensitive emulsion on a surface thereof, causing substantially opaque dust particles to fall on said emulsion to cover portions thereof and to leave other portions of said emulsion uncovered by said dust particles, exposing said uncovered portions of said emulsion to a light source, reinserting the object in the precipitation chamber, causing additional substantially opaque dust particles to fall on said emulsion over the first particles thereon and over additional portions of said emulsions, re-exposing the remaining uncovered portions of said emulsion to a light source, removing said dust particles from said emulsion, and developing the emulsion on the object to provide a grain screen having at least two areas of different intensity.



2,643,189

PRESERVED ERISTALIS GENUS, CRANE FLY LARVAE, AND METHOD

Frederick Gould, Angola, Ind.

Application March 5, 1952, Serial No. 274,876
9 Claims. (Cl. 99—3)

1. A method of preserving Eristalis larvae that comprises clabbering by immersion of the live larvae in water at a temperature of from 150° F. to 180° F. for from five to ten minutes, placing the clabbered larvae in an aqueous preserving solution containing from 1.5 to 4 per cent of formaldehyde and sufficient deodorant to counteract the formaldehyde odor, and leaving the larvae in the preserving solution for from ten to thirty days, and positioning the so treated larvae in a closed container in intimate admixture with a treated sawdust comprising from 55 to 65 parts of sawdust of a turpentine-bearing wood moistened with from 45 to 35 parts of an aqueous solution containing from 1.5 to 4 per cent of formaldehyde and sufficient deodorant to counteract the formaldehyde odor.

2,643,190

PROCESS FOR ROASTING AND SALTING NUTS

Frank E. Hageman, Chico, Calif.

No Drawing. Application November 18, 1950, Serial No. 196,528
4 Claims. (Cl. 99—127)

1. The process of roasting and salting shelled, unskinned nuts comprising the steps of: adding an aqueous sodium chloride solution to the skin of said nuts at atmospheric pressure for absorption of said solution by said skins, then enclosing said nuts having said solution in their skins within a preheated space the temperature of which is substantially above that of the boiling point of water at atmospheric pressure at the time said nuts are so enclosed, then raising the heat within said space sufficiently to elevate the temperature therein to at least the boiling point of water at the pressure created within said space created solely through the conversion of the water in said skins and nuts into steam and keeping said nuts in said space and at said temperature and pressure until they are roasted to the desired degree, thereafter exhausting said steam and removing said nuts from said enclosed space and rapidly cooling them.

2,643,191

PRINTING INK FOR PORTLAND CEMENT BASES

Marshall B. Young, Dallas, Tex., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey

No Drawing. Application August 15, 1951, Serial No. 242,036
2 Claims. (Cl. 106—27)

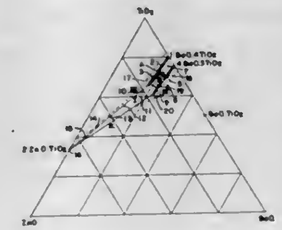
1. A composition of printing consistency for application to a freshly made base of Portland cement reenforced with asbestos fibers, consisting of powdered Portland cement and pigment, in a vehicle consisting of a liquid hydrocarbon that will not inhibit hydration of the cement of the base, and an aluminum soap.

2,643,192

ELECTRICAL INSULATOR

Gerard Heinrich Jonker and Pieter Benedictus Arie Schilperoord, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 11, 1949, Serial No. 98,546
In the Netherlands June 25, 1948
2 Claims. (Cl. 106—39)



1. A ceramic dielectric consisting essentially of a ternary composition defined wholly within the region of the phase diagram of the ternary system X—Y—Z shown in Fig. 2 of the accompanying drawing bounded by angular points having the composition 18X—82Z, 16X—19Y—65Z, 67Y—33Z, 18X—27Y—55Z, 27X—12Y—61Z and 27X—73Z calculated in mol. per cent, where X includes BaO and one of the oxides selected from the group consisting of CaO, SrO, PbO and La_2O_3 in an amount not exceeding one quarter of the BaO, Y includes ZnO and not more than 5 mol. per cent of CdO, not more than 35 mol. per cent of BeO and not more than 50 mol. per cent MgO, and Z includes TiO_2 and one of the oxides selected from the group consisting of ZrO_2, SnO_2 and SiO_2 in an amount not exceeding one quarter of the TiO_2.

2,643,193

INSULATING FILLER COMPOSITION

Louis Weber, Sr., Tacoma, Wash., assignor to Weber Insulations, Incorporated, East Chicago, Ind., a corporation of Indiana

No Drawing. Application October 6, 1948, Serial No. 53,153
2 Claims. (Cl. 106—98)

1. A hardenable plastic wall coating consisting of the following ingredients in the following proportions by weight: Substantially two parts of a cementitious material selected from the group consisting of Portland cement and com-

mercial hard plaster; substantially one part of an aggregate consisting of:

	Parts
Mineral wool fiber	100
Asbestos fiber	3 to 7
Diatomaceous earth powder	5 to 20
Colloidal clay	5 to 15

Water in excess of the quantity required to combine chemically with the cementitious material.

2,643,194

LIQUID GLUE

Louise K. Fencil, Brookfield, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application November 18, 1946, Serial No. 710,415

5 Claims. (Cl. 106—135)

1. A process for producing a liquid adhesive which comprises mixing animal glue with a liquid, aliphatic water-soluble halogen substituted alcohol at a temperature of 40° to 80° C. said alcohol being employed in a quantity sufficient to dissolve said animal glue.

2,643,195

COMPOSITION FOR TREATING CLOTH MATERIALS

Mary P. Monroe, Kansas City, Mo.

No Drawing. Application July 13, 1951, Serial No. 236,685

1 Claim. (Cl. 106—209)

A composition for treating cloth material, consisting of 1 lb. of potassium alum, 1 oz. white dextrin, ½ oz. granulated cane sugar, ½ oz. magnesium carbonate, ¼ oz. sodium chloride, and about 7 gallons of water.

2,643,196

PROCESS FOR PREPARING PURE CADMIUM RED PIGMENT

Benjamin W. Allan and Frank O. Rummery, Baltimore, Md., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 11, 1949, Serial No. 81,023

5 Claims. (Cl. 106—301)

1. The method of making a cadmium sulfoselenide pigment, which method comprises: calcining in a non-oxidizing atmosphere at temperatures between about 400° C. and 700° C., an intimately mixed crude pigment mass composed essentially of cadmium sulfide, and insoluble oxidic cadmium compound and selenium, the oxidic cadmium compound being present in sufficient quantity to provide at least ½% of cadmium oxide by weight of the crude pigment mass, the selenium being present in sufficient quantity to provide a molar ratio of selenium to cadmium oxide of at least 3 to 2, and the cadmium sulfide being present in sufficient quantity above a molar ratio of CdS : Se of 1 to 3 to produce the desired shade of red, at least the cadmium sulfide and the oxidic cadmium compound in said mass having been formed in situ and coprecipitated as the direct insoluble products of a single strike between: (*a*) an aqueous solution of a cadmium salt as one strike component, and (*b*) a mixed aqueous solution as the other strike component, said mixed solution containing a soluble oxidic alkaline-reacting compound whose anion forms with cadmium ions an insoluble oxidic cadmium compound, and a soluble sulfide whose cations yield water-soluble compounds when combined with the anion of said cadmium salt.

2,643,197

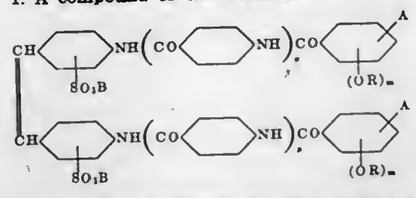
FLUORESCENT ALKOXY BENZOYL DERIVATIVES OF 4,4′ DIAMINO STILBENE-2,2′ DISULFONIC ACID AND DETERGENT COMPOSITIONS CONTAINING SAME

Leslie Noel Savidge, Burton, and Richard Thomas, Bromborough, England, assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine

No Drawing. Application March 30, 1948, Serial No. 18,066. In Great Britain April 3, 1947

20 Claims. (Cl. 117—33.5)

1. A compound of the formula



where each B is a member of the group consisting of hydrogen, sodium, potassium and ammonium, where each *x* is selected from the group consisting of 0 and 1, where each A is a member of the group consisting of hydrogen, methyl and acetylamino, where each R is an alkyl radical of 1 to 4 carbon atoms, and where each *m* is an integer selected from the group consisting of 1, 2 and 3.

7. A composition consisting essentially of a detergent comprising an organic detergent and not more than about 0.075% by weight of a compound of claim 1.

2,643,198

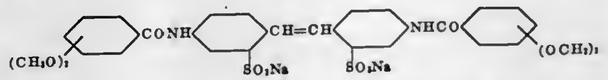
FLUORESCENT COMPOUND AND METHODS OF IMPARTING FLUORESCENT EFFECTS TO MATERIALS

Leslie Noel Savidge and Richard Thomas, Bromborough, England, assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine

No Drawing. Original application March 30, 1948, Serial No. 18,066. Divided and this application August 13, 1949, Serial No. 110,223. In Great Britain April 3, 1947

16 Claims. (Cl. 117—33.5)

1. A compound of the general formula



16. Fibrous cellulosic material having incorporated therein about 0.0001% to about 0.05% by weight of a compound of claim 1.

2,643,199

PROCESS OF FORMING A LAYER OF METALLIC COPPER ON COPPER OXIDE

Paul Hersch, Birmingham, England

No Drawing. Application October 22, 1951, Serial No. 252,570. In Sweden December 18, 1945

10 Claims. (Cl. 117—50)

1. A process of treating a copper oxide coating carried upon a solid base, which comprises reducing the surface portion of said copper oxide coating to metallic copper by immersing said base carrying said coating in a liquid aqueous solution of formaldehyde containing a free alkali until the surface portion of said copper oxide coating has been reduced to metallic copper, such aqueous solution being at not substantially above atmospheric temperature.

2. In the reduction of the surface portion of an article which comprises a solid base carrying a coating of copper oxide, the improvement which consists in first immersing said article in a dilute solution of a silver compound, and following this by the process as set forth in claim 1.

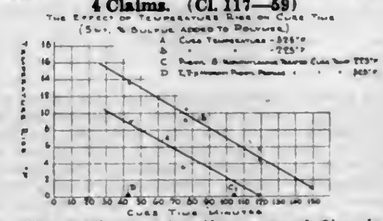
2,643,200

POLYMER TREATMENT FOR FIBERBOARDS

Mack C. Fuqua, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 16, 1950, Serial No. 179,831

4 Claims. (Cl. 117—59)



1. The method of treating a wood fiber board which consists essentially in applying a partly cured olefinic polymer oil formed by clay treating a cracked hydrocarbon naphtha, and containing about 5 weight percent sulfur, to the wood fiber board to impregnate the board with partly cured olefinic polymer oil, and then treating the impregnated board at about 225° F. to 325° F. for about 2 to 2½ hours to effect complete cure of the partly cured olefinic polymer oil with which the wood fiber board is impregnated.

2,643,201

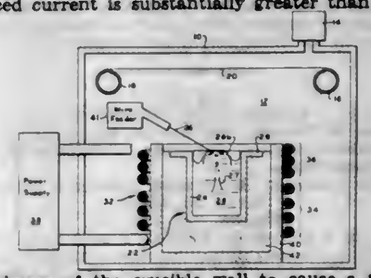
COATING METHOD AND APPARATUS THEREFOR

Earl E. Chadsey, Jr., Newton, Philip J. Clough, Reading, and Philip Godley 2nd, Lexington, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts

Application December 24, 1949, Serial No. 134,988

2 Claims. (Cl. 117—93)

1. In a process for the coating of a substrate with aluminum by the vapor deposition of aluminum in a vacuum chamber wherein the aluminum is evaporated from a carbonaceous crucible which is formed of elemental carbon selected from the group consisting of amorphous carbon, graphite and mixtures thereof, the improvement which comprises heating the crucible and the molten aluminum therein to a temperature above about 1200° C. so that the vapor pressure of the aluminum is above the free air pressure in the vacuum chamber while supplying induced heating current to the crucible and the aluminum therein, maintaining said induced heating current at a frequency between about 9600 and 150,000 cycles per second, said frequency and the crucible wall thickness being so related that the skin depth of the induced current is substantially greater than the



thickness of the crucible wall to cause a substantial stirring of said molten aluminum, thereby carrying into the body of the melt aluminum carbide crystals floating on the surface of the melt and thus maintaining the surface of the aluminum melt free of substantially all aluminum carbide scum, and depositing on said substrate aluminum vapors emanating from the surface of the molten aluminum.

2,643,202

METHOD OF MAKING NONBLOCKING FILM OF RUBBER HYDROCHLORIDE

Drury R. Burton, Uniontown, and Harry W. Wilson, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application August 1, 1950, Serial No. 177,138

2 Claims. (Cl. 117—139)

1. A method of preventing blocking of thermoplastic heat tackified rubber hydrochloride seal surfaces which comprises applying to said surfaces a dispersion of finely divided pulverulent sulphur in mineral oil.

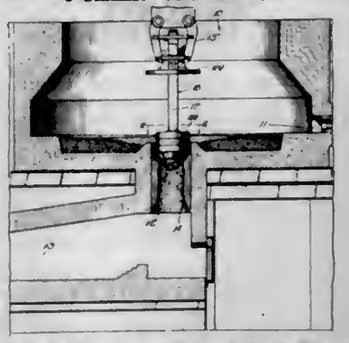
2,643,203

METHOD OF AND APPARATUS FOR REMOVING SLAG FROM CENTER HOLE OF INGOT SOAKING PITS

Frank Drackley, Whiting, Ind., assignor to Inland Steel Company, a corporation of Delaware

Application March 27, 1947, Serial No. 737,700

8 Claims. (Cl. 134—8)



3. Apparatus for removing slag from the center

hole of an ingot soaking pit, comprising, a dead weight element provided with means by which it may be carried by a crane, said element being adapted to maintain a predetermined minimum load on the crane cables, said dead weight element including an upright shaft, a heavy reamer head slidably mounted on said upright shaft, means for preventing rotation of said reamer head with respect to the shaft, and cutting means adjacent the lower end of said reamer head.

2,643,204

NITRIC ACID PICKLING

Edgar B. Mancke, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

No Drawing. Application October 1, 1948, Serial No. 52,400
5 Claims. (Cl. 134—13)

1. In a process for treating a used nitric acid pickling solution containing ferric nitrate and a substantial amount of free nitric acid, the step of autoclaving the solution at a temperature of not less than 340° F. to produce an insoluble ferric compound and to form and retain free nitric acid in said solution.

2,643,205

REMOVAL OF CARBONACEOUS DEPOSITS FROM PROCESS EQUIPMENT

Christopher A. Murray, Nederland, Tex., assignor to Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application December 27, 1949, Serial No. 135,295
4 Claims. (Cl. 134—28)

1. A method of removing carbonaceous deposits from the surfaces of chemical process equipment comprising applying thereto spent alkylation sulfuric acid, draining the acid from the equipment after about 30 minutes and flushing the equipment with an aqueous solvent.

2,643,206

PACKAGE FOR SHIPPING AND STORING A CONDUCTIVE RUBBER HEATING ELEMENT AND METHOD OF MAKING SAME

Charles J. Ford, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application September 28, 1949, Serial No. 118,303
18 Claims. (Cl. 154—79)



1. A package for shipping and storing a conductive rubber heating element to maintain the electrical conductivity of the rubber substantially stable, said package including a substantially flat heating element of thin cross-section with top and bottom surfaces and having an electrically conducting rubber element with at least two metal conductors contained therein, and layers of dimensionally stable flexible material separably adhered to the top and bottom surfaces of said heating element.

18. The method of preparing a conductive rubber heating element comprising the steps of providing a layer of dimensionally stable, flexible material, applying a layer of non-conductive rubber to said flexible layer, superposing a layer of conductive rubber on said layer of non-conductive rubber, attaching conductors and connections to said layer of conductive rubber, applying a second layer of conductive rubber over said conductors and connections, applying another layer of non-conductive rubber over said second conductive rubber layer, covering the last-mentioned layer of non-conductive rubber with a layer of dimensionally stable, flexible material, and subjecting the entire composite structure to heat and pressure to vulcanize the rubber and cause said dimensionally stable, flexible material to be separably adhered to the said layers of non-conductive rubber.

2,643,207

BONDING OF TEXTILE YARNS TO RUBBER

Donald Entwistle, Coventry, England, assignor to Courtaulds Limited, London, England, a British company

Application October 13, 1947, Serial No. 779,651
In Great Britain November 12, 1946
12 Claims. (Cl. 154—100)



1. A process for the production of a composite article comprising vulcanized rubber bonded to rayon yarns which includes the steps of distributing within the filamentary structure of rayon yarn an adhesive consisting essentially of a permanently soluble, permanently fusible resin obtained by the condensation of an aldehyde and a phenol selected from the group consisting of monohydric and dihydric phenols, said resin being obtained by condensing the aldehyde and the phenol in a molar ratio of less than 1:1, placing the yarns so formed in contact with unvulcanized rubber and subjecting the assembly to a vulcanizing temperature.

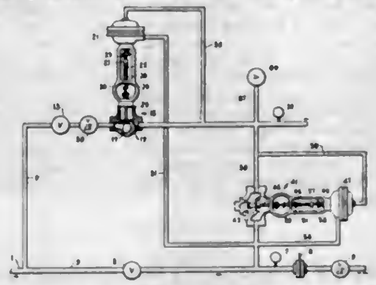
2,643,208

APPARATUS FOR THE SELECTIVE INJECTION OF FLUIDS INTO GEOLOGICAL FORMATIONS

Laurence A. Ogden, James R. McChesney, and Lawrence L. McDonald, Tulsa, Okla., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application December 23, 1947, Serial No. 793,478
8 Claims. (Cl. 166—10)

1. An expansible and collapsible packer for earth bores comprising a pipe, a collapsible substantially fluid-impermeable envelope fastened to said pipe to define an enclosed space with the walls of said pipe, a first conduit connected to the pipe for supplying fluid to said envelope and a second conduit for supplying fluid to the earth bore around said enclosed space, and a means for maintaining a predetermined pressure differential in the said first conduit wherein the pressure in the first conduit is continuously maintained over and above that available in the second conduit, which comprises a means for supplying fluid from a common pressure source through the first and second conduits to the inside and to the outside, respectively, of said packer, a pressure reducing valve in the second conduit applying fluid to the outside of said packer, a first pressure differential regulator disposed in the first conduit supplying fluid to the inside of said packer, said conduit supplying fluid to the outside of said packer being connected on the downstream side of said pressure reducing valve to said first differential pressure regulator to maintain said regulator in the open position, the conduit supplying fluid to the inside of said packer being connected to said first differential pressure regulator to maintain said regulator in a closed position, said regulator being adjusted to



remain in open position until the pressure of the fluid charged to the inside of said packer exceeds the pressure of fluid charged to the outside of said packer by a predetermined amount and a second differential pressure regulator connected between said first and second conduits at points downstream of said first differential pressure regulator and said pressure reducing valve, said second regulator being activated by pressure of fluid on the inside and on the outside of said packer to remain in closed position until the pressure differential between the inside and outside of said packer exceeds a predetermined maximum.

2,643,209

VITAMIN A ACETATE GELATIN BEADLETS

Edward J. Goett, New York, Edward Everett Macdonough, Jr., Brooklyn, and Charles J. Salivar, Malverne, N. Y., assignors to Chas. Pfizer & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 16, 1951, Serial No. 226,736
3 Claims. (Cl. 167—81)

1. Substantially dry oil-free beadlets consisting essentially of gelatin, having dispersed throughout their interiors a high proportion of crystals of vitamin A acetate.

2,643,210

VITAMIN B_{12}-ACTIVE SUBSTANCE ELUTION FROM MONTMORILLONITE ABSORBENT

Stephen Kutosh, Kenilworth, and George B. Hughey, Orange, N. J., and Robert S. Malcolmson, Riverside, Pa., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application September 7, 1950, Serial No. 183,664. Divided and this application June 11, 1952, Serial No. 292,986
4 Claims. (Cl. 167—81)

1. The process for recovering vitamin B_{12} active substances from a montmorillonite adsorbent which comprises eluting said vitamin B_{12} active substances with an aqueous solution having a pH in excess of about 6 and containing a source of nitrite ions.

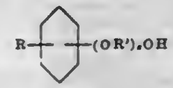
2,643,211

HAIR COLOR-RINSE CONCENTRATE

Marion J. Den Beste, St. Paul, Minn., assignor to Rayette, Inc., a corporation of Minnesota

No Drawing. Application November 30, 1949, Serial No. 130,369
10 Claims. (Cl. 167—88)

6. A concentrate for tinting human hair by dilution thereof with water comprising a homogeneous aqueous solution of a non-toxic water soluble acid dye contained therein in quantity sufficient to tint the hair upon dilution of the concentrate volume several times with water, said aqueous concentrate containing 1 to 10 parts by volume of a water insoluble emollient oil having the formula:



wherein R is alkyl ranging from 6 to 10 carbon atoms, R' is ethylene, and x is a whole integer from 1 to 5, said composition further containing a small quantity of a lower water soluble monohydric aliphatic alcohol in quantity adjusted to dissolve the water insoluble emollient oil to form a homogeneous solution thereof in the concentrate, said concentrate being adapted upon subsequent further dilution with water to form a stable emulsion of said emollient oil in the aqueous dye solution for direct use as a hair tinting rinse.

2,643,212

PROCESS OF PREPARING A MATERIAL HAVING PROLONGED SCENT RETAINING CHARACTERISTICS AND PRODUCT THEREOF

Roger W. Philippin, Babylon, N. Y.

No Drawing. Application May 5, 1950, Serial No. 160,394
7 Claims. (Cl. 167—94)

1. The process of preparing a scented material having prolonged scent retaining characteristics from a starting material, the essential active ingredients of which consist of a mixture of natural essential perfume oils which contain terpenes, said process comprising the steps of mixing with a volumetric quantity of said starting material from about half to about twice said volumetric quantity of an aliphatic alcohol having from 3 to 5 carbon atoms, fractionally distilling the mixture so formed to produce as separate distillate fractions: (*a*) an alcohol fraction distilled off at about the boiling point of said aliphatic alcohol, (*b*) a fraction boiling at atmospheric pressure in the range of about 140° C. to about 148° C., (*c*) a fraction boiling at atmospheric pressure in the range of about 195° C. to about 200° C., and (*d*) a fraction boiling at atmospheric pressure at a temperature of about 220° C., and leaving a residue; and subjecting said residue and said fractions (*b*), (*c*) and (*d*) to a saponification action by introducing said residue and said fractions (*b*), (*c*) and (*d*) separately into an alcohol solution of a caustic alkali to produce the desired scented material.

2,643,213

METHOD FOR THE PRODUCTION OF VITAMIN B_{12} BY STREPTOMYCES OLIVACEUS

Harlow H. Hall, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 23, 1951, Serial No. 217,283
9 Claims. (Cl. 195—80)
(Granted under Title 35, U. S. Code (1952), sec. 266)

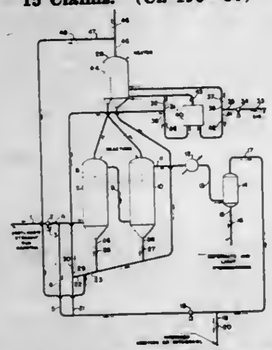
1. Method comprising cultivating *Streptomyces olivaceus* in an aqueous nutrient medium comprising an assimilable fermentable carbohydrate source, an assimilable nitrogen source, and a source of cobalt ion, incubating the culture under submerged aerobic conditions, the initial pH of the fermentation being at no lower than about pH 6.5, the temperature being in the range 25° to 30° C., to produce vitamin B_{12}.

2,643,214

METHOD OF REFORMING HYDROCARBONS IN THE PRESENCE OF A PLATINUM OR PALLADIUM CATALYST

Karl T. Hartwig, Glen Ellyn, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 29, 1950, Serial No. 152,656
15 Claims. (Cl. 196—50)



1. A reforming process which comprises passing hydrogen and a hydrocarbon fraction containing paraffins and naphthenes and boiling within the gasoline range through a reaction zone and therein contacting the same at reforming conditions with a catalyst comprising alumina and a metal selected from the group consisting of platinum and palladium, withdrawing catalyst from said reaction zone and introducing the same into a heating zone wherein it is contacted with hot combustion gases to raise the temperature thereof, withdrawing heated catalyst from the heating zone and passing the same into said reaction zone, separating a gas rich in hydrogen from the reformed products and burning at least a portion thereof to form said combustion gases.

2,643,215

TREATMENT AND USE OF POROUS CONTACT MASSES

Albert Wesley Hoge, Ridley Park, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 1, 1947, Serial No. 731,870
5 Claims. (Cl. 196—52)

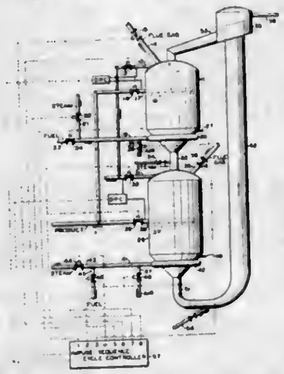
3. In processes for the conversion of hydrocarbons using solid hydrocarbon conversion catalysts that decline in catalytic activity when subjected to repeated cycles of conversion and regeneration, the improvement which comprises effecting conversion of said hydrocarbons under conversion conditions in the presence of a relatively more catalytically active fraction of a total catalytic contact mass comprising particles of said solid conversion catalyst previously subjected to temperatures at which the activity of said catalyst decreases and comprising particles of said catalyst having the same basic composition and differing in catalytic activity, which relatively more catalytically active fraction has been obtained by impregnating the particles of said total mass with a sealing liquid to seal said particles to subsequent liquid penetration, introducing said mass into a body of liquid having a density adapted to float only a fraction of said particles, stratifying said mass into two fractions of different average particle densities, the fraction having the lesser average particle density being more catalytically active than the other of said fractions, and separating said more catalytically active fraction from said body of liquid apart from the other of said fractions.

2,643,216

DEVICE AND PROCESS FOR CONVERTING HYDROCARBONS

Robert A. Findlay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 10, 1950, Serial No. 178,737
8 Claims. (Cl. 196—55)



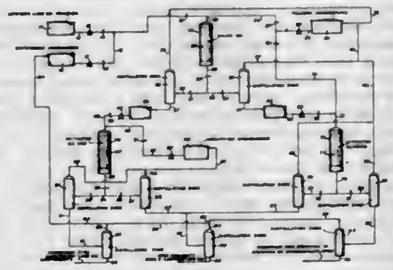
1. A semi-continuous process for converting hydrocarbons to lower boiling products which comprises heating pebbles to a temperature of at least 1200° F. in a first chamber of a pebble heater system by direct heat exchange with a hot heating gas; passing said hot pebbles through a second chamber of said pebble heater system; heating hydrocarbons to reaction temperature by direct contact with said hot pebbles in said second chamber; removing reaction products from said second chamber; returning pebbles from said second to said first chamber; purging said first and second chambers of hot heating gas, hydrocarbons and reaction products upon excessive increase of pressure drop through said second chamber; reversing operation of said pebble heater system by heating said pebbles to a temperature of at least 1200° F. by direct heat exchange with a hot heating gas in said second chamber; passing said hot pebbles through said first chamber; introducing hydrocarbons into direct heat exchange with said hot pebbles in said first chamber; heating said hydrocarbons to reaction temperature by said direct contact with said hot pebbles in said first chamber; removing resulting reaction products from said first chamber; returning pebbles from said first to said second chamber; purging said second and first chambers of hot heating gas, hydrocarbons and reaction products upon excessive increase of pressure drop through said first chamber; and similarly reversing operation of said pebble heater system as pressure drop through the chamber containing the hydrocarbon reaction becomes excessive.

2,643,217

PRODUCTION OF HIGH VISCOSITY INDEX LUBRICATING OILS

Albert T. Watson and Sam H. Hastings, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application March 26, 1952, Serial No. 278,548
5 Claims. (Cl. 196—147)



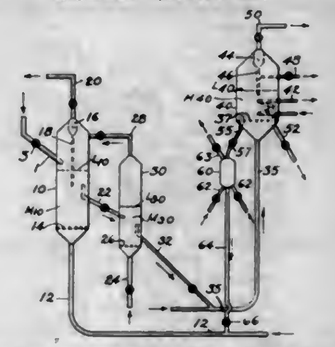
2. A method for producing a high viscosity lubricating oil which comprises alternately charging to a bed of silica gel a lubricating oil fraction containing paraffinic, single and condensed ring naphthenic, and single and condensed ring aromatic hydrocarbons and an aromatic hydrocarbon fraction of a boiling point lower than that of the lubricating oil fraction, alternately recovering from the bed of silica gel a first fraction containing predominantly saturated lubricating oil components and a second fraction containing predominantly aromatic lubricating oil components, alternately charging to a bed of activated carbon the first fraction and a paraffinic hydrocarbon fraction of a boiling point lower than that of the aromatic hydrocarbon fraction, alternately recovering from the bed of activated carbon a third fraction containing condensed ring naphthenic lubricating oil components and a fourth fraction containing paraffinic and single ring naphthenic lubricating oil components, alternately charging to a bed of alumina gel the second fraction and an aromatic hydrocarbon fraction having a boiling point lower than the lubricating oil fraction, alternately recovering from the bed of alumina gel a fifth fraction containing single ring aromatic lubricating oil components and a sixth fraction containing condensed ring aromatic lubricating oil components, combining said fourth and fifth fractions, and recovering from said combined fourth and fifth fractions a lubricating oil of high viscosity index.

2,643,218

FLUID-TYPE SHALE RETORTING

Lloyd A. Nicolai, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 16, 1949, Serial No. 99,456
6 Claims. (Cl. 202—14)



1. In the process of distilling oil-bearing minerals of the type of oil shale which disintegrate during distillation, wherein the subdivided minerals are subjected to a distillation temperature in the form of a highly turbulent dense mass fluidized by an upwardly flowing gasiform medium in a distillation zone and the heat required by the distillation is supplied by burning solid distillation residue with a combustion-supporting gas in the form of a fluidized mass of solids in a separate combustion zone at a combustion temperature and returning solid combustion residue substantially at said combustion temperature to said distillation zone, the improvement which comprises subjecting said combustion residue, prior to its return to said distillation zone, to a chemical reaction with a reducing gas by passing said combustion residue downwardly through a separate treating zone countercurrently to an upflowing reducing gas reacting chemically with at least one constituent of said combustion residue, and contacting said combustion residue with said reducing gas in said treating zone at temperatures of about 900°–1200° F. and contact times of about 1–10 minutes adequate to promote said chemical reaction.

2,643,219

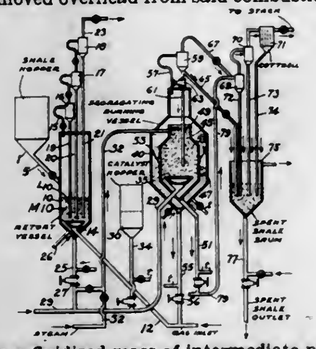
FLUIDIZED DISTILLATION OF OIL-SHALE

James W. Carr, Jr., Lindsay I. Griffin, Jr., and Edward W. S. Nicholson, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 21, 1949, Serial No. 100,492
6 Claims. (Cl. 202—14)

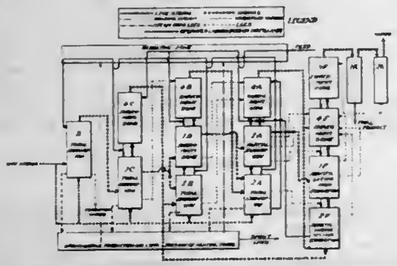
1. In the distillation of carbonaceous solids of the type of oil shale which disintegrate during distillation wherein the subdivided solids are distilled in the form of a dense turbulent mass fluidized by an upwardly flowing gasiform medium in a distillation zone, spent solids are subjected to combustion and highly heated in the fluidized state in a combustion zone and heat is supplied to said distillation zone in the form of sensible heat of solids circulating from said combustion zone to said distillation zone, the improvement which comprises passing a gas upwardly in a lower portion of said combustion zone at a superficial linear velocity of substantially less than 1.5 ft. per second whereby segregation of coarse

particles having a diameter of about 400 to 7,000 microns from particles less than 400 microns in diameter takes place in said lower portion, increasing said velocity thereafter in an upper portion of said combustion zone substantially above 1.5 ft. per second whereby solids fines of 0–20 microns particle size are fully entrained and removed overhead from said combustion zone



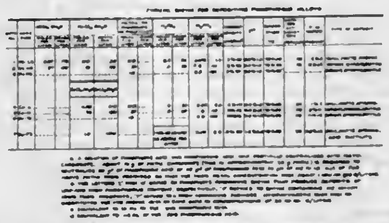
to form a fluidized mass of intermediate particles less than 400 microns but more than 20 microns in diameter above said fluidized coarse particles, returning at least a major portion of said segregated intermediate size particles to said distillation zone for the purpose of heat supply, and withdrawing said coarse particles downwardly from said combusion zone.

2,643,220
DISTILLING METHOD
Juan Loumiet et Lavigne, Playa de la Teja, Itabo, Cuba
Application December 3, 1946, Serial No. 713,775
In Cuba December 4, 1945
11 Claims. (Cl. 202—40)



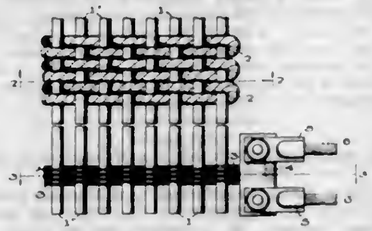
1. In a distilling process designed to extract a definite fluid from a binary mixture that contains it, by means of successive operations effected in exhaustion apparatus having a plurality of exhausting zones, and a complementary enrichment column operating on the final vapor product of the exhaustion apparatus, in which exhaustion apparatus a first vapor injected or produced at the bottom of a zone is progressively enriched while the fluid operated upon, moving countercurrent to that vapor, is progressively exhausted, the final product vapor of said exhaustion apparatus being enriched in the complementary enrichment column which liquifies and separates from said product vapor a liquid residue containing the major part of the less volatile components mixed with a small part of the more volatile components, which residue is returned to the exhaustion apparatus; the improvement which consists in dividing the total current of original feed into a main stream and a plurality of secondary streams, in transmitting the main stream of original feed downward through successive zones of the exhausting apparatus, in each one of a plurality of those zones dividing a partial stream from said main stream, totally exhausting said partial stream, and removing its residue from the system; in exhausting partially in each exhausting zone but the last the remainder of the main stream and transmitting that remainder partially exhausted to the next following exhausting zone, in the last exhausting zone totally exhausting all the main stream operated upon and removing its residue from the system; in complementing each exhausting zone but the last, with a rectifying zone in which is enriched the vapor produced in the corresponding exhausting zone, in heating the final exhausting zone with steam; in passing the product vapors of each exhausting zone except the last into the corresponding rectifying zone to enrich them; in condensing the product vapor of the last exhausting zone and the enriched product vapors from each of the other exhausting zones except the first in indirect heat exchange with the liquid operated upon in the preceding exhausting zones in which vapors are produced; in feeding the first exhausting zone with the main stream of the original feed mixed with the residue of the enrichment column that operates upon the final vapor leaving the rectifying zone of the first exhausting zone and with the liquid residue of said rectifying zone; feeding each of the other exhausting zones except the last with the partially exhausted distillant from the bottom of the preceding exhausting zone, together with the liquid residue of its own rectifying zone; applying as rectifying liquids in each rectifying zone other than the last condensed enriched product vapor of a following zone, supplemented in at least one rectifying zone, other than the one that receives vapor from the first exhausting zone, by a secondary stream of the original feed total current.

2,643,221
ELECTRODEPOSITION OF PHOSPHORUS-NICKEL AND PHOSPHORUS-COBALT ALLOYS
Abner Brenner, Chevy Chase, and Dwight E. Couch, Hyattsville, Md., and Eugenia K. Williams, Charlottesville, Va., assignors to the United States of America as represented by the Secretary of the Army
Application November 30, 1950, Serial No. 198,471
7 Claims. (Cl. 204—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)



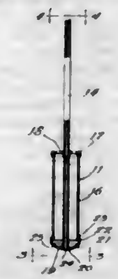
1. The method of electrodepositing alloys of phosphorus with a metal of the group consisting of nickel and cobalt which comprises electrolyzing a solution containing said metal in the form of a salt chosen from the group consisting of sulphates and chlorides in the presence of phosphoric acid and phosphorous acid and having a pH of about 0.5 to 2.0.

2,643,222
METHOD OF CATHODICALLY DESCALING AND ELECTRODE THEREFOR
George Chandler Cox, Charleston, W. Va.
Application March 24, 1949, Serial No. 83,199
16 Claims. (Cl. 204—144)



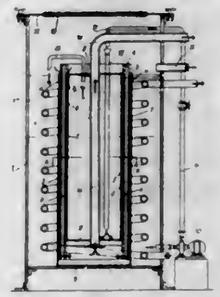
1. A flexible mat adapted to be placed contiguous with a surface of an iron or steel structure which is to be electrolytically treated comprising a plurality of substantially parallel slender elongated bars of a metal selected from the group consisting of magnesium, magnesium base alloys, aluminum or aluminum base alloys; and flexible means mechanically interconnecting all of the elongated bars at intervals along the sides of their long dimension; said flexible means including at least two parts one of which parts is a flexible porous non-conductive fabric in mechanical contact with the coacting surface of the bars on at least one side of the mat for spacing said bars from the surface of said structure at a distance equal to the thickness of the fabric, and the other of which parts is a flexible metallic low resistance conductor electrically interconnecting the bars and adapted to be electrically connected to the structure to be treated.

2,643,223
APPARATUS FOR ELECTROLYTIC ANALYSIS
Robert W. Notvest, Affton, Mo., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware
Original application February 10, 1948, Serial No. 7,366. Divided and this application February 7, 1951, Serial No. 209,841
3 Claims. (Cl. 204—195)



1. In an electrolytic apparatus for quantitative determination of solutions, an electrode unit comprising, a substantially cylindrical platinum gauze electrode adapted to be immersed in the solution, the bottom of the said gauze electrode being closed by a convexly rounded and imperforate closure member provided at its bottom center with a passage extending therethrough to open into the interior of said cylindrical electrode, and a hollow tubular current-conducting element extending longitudinally of and substantially centrally in the said gauze electrode, one end portion of the tubular element being adapted to be connected to a source of CO_2 gas, the other end portion of the tubular element being sealably positioned in the said passage whereby CO_2 gas conducted through said tubular element will bubble upwardly along the outer sides of the closure member to clean adherent oxidizing gases from the outer sides of the gauze electrode during electrolysis.

2,643,224
OZONIZERS
Piero Niccoli, Firenze, Italy
Application December 28, 1948, Serial No. 67,700
In Italy January 17, 1948
2 Claims. (Cl. 204—321)

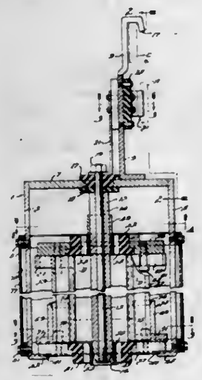


1. A tubular ozonizer element comprising in combination, an inner tubular electrode having a wall and a bottom formed from thin and flexible sheet metal to provide a fluid-retaining enclosure, two concentric dielectric members each formed by at least one flexible insulating sheet arranged to define a tube with the longitudinal edges of said sheet being in sealed relation with the body of said tube, the inner of said members overlying the outer surface of the said inner electrode, spacing means positioned upon said inner dielectric member, said spacing means extending the entire length of the axis of said member, the other of said dielectric members overlying the outer surface of said spacing means, an outer tubular electrode concentric with said inner electrode and said dielectric members and formed from at least one thin and flexible metal sheet in tubular form overlying the outer surface of the outer dielectric member and provided with a bottom to define a fluid-retaining enclosure, the bottoms of said inner and said outer electrodes being spaced to provide a chamber communicating with the space between the dielectric members for receiving the ozone generated, and means for withdrawing ozone from said chamber.

2,643,225
ELECTROPLATING RACK
Hugh F. Jones and Hedley R. Colby, Greenville, Mich., assignors to Federal Mogul Corporation, Detroit, Mich., a corporation of Michigan
Application January 19, 1949, Serial No. 71,714
2 Claims. (Cl. 204—297)

1. In a rack for electroplating hollow articles, a frame comprising an upper end element hav-

ing a pair of spaced downwardly depending legs which are provided with inwardly projecting flanges at their lower end portions, an upper and a lower end member positionable between said legs, a first pair of angle bars carried by one of said end members and extending toward the other of said end members, and a pair of abutments carried by said other end member and clampingly engaging the extending end portions of said bars, said end members having a first dimension in a plane extending transversely



of said legs and of a magnitude less than the distance between said flanges whereby said end members may be inserted longitudinally of the legs between said flanges into the space between said legs, said lower end member having a second dimension in said plane of a magnitude greater than the distance between said flanges but less than the distance between said legs, said second dimension being aligned with said flanges whereby said lower end member seats on and is supported by said flanges.

2,643,226

WATER FLUORIDATION AND IMPURITY COAGULATION

Wayne E. White, Tulsa, Okla., assignor to Ozark-Mahoning Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application June 10, 1950, Serial No. 167,478

3 Claims. (Cl. 210—23)

1. The method of treating water supplies of municipalities which consists in supplying thereto a water soluble finely pulverulent material containing the aluminum and fluorine bearing reaction product $AlFSO_4$ of calcium fluoride and a solution of aluminum sulfate adapted when dissolved in the water under conditions of sufficient alkalinity therein for coagulation to release thereto fluorine and aluminum thereby to fluoridate the water in amount not in excess of 2.5 parts of fluorine per million parts of water and to supply the aluminum component of a subsequently formed flocculent precipitate for entraining suspended mineral matter initially contained in the water.

2,643,227

METHOD OF INHIBITING CORROSION OF METALS

William B. Hughes, Bartlesville, and Bennie Heinze, Pawhuska, Okla., assignors to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware

No Drawing. Application February 21, 1950, Serial No. 145,586

8 Claims. (Cl. 252—8.55)

1. The process of preventing the corrosion of metals when exposed to contact with corrosive oil well fluids which comprises incorporating into the well fluids a small but sufficient proportion of the reaction product of a spontaneous reaction between approximately equimolar quantities of a polyethylene amine and an aldehyde, neutralized by a carboxylic acid.

2,643,228

GEL MODIFIER FOR OILS AND METHOD OF PREPARING IT

Donald C. Bond, Northbrook, and Michael Savoy, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application October 2, 1948, Serial No. 52,592

3 Claims. (Cl. 252—37)

1. The process of transferring wax-containing crude petroleum oils which flow with difficulty at subatmospheric temperatures which comprises introducing into said crude oil the condensation product of a fatty acid salt of aluminum containing at least about 12 carbon atoms per molecule and an alkylol amine containing at least about 2 carbon atoms in each of the alkylol substituents of the molecule, said condensation product being that resulting from the reaction of the aluminum salt and the amine in the molecular ratio of about 0.25 to 4.0 moles of amine per mole of aluminum salt at a temperature between about 300° and 500° C., said condensation product being present in an amount sufficient to improve the viscosity and flow characteristics of said oil at subatmospheric temperatures and pumping the resulting admixture within a conduit.

2,643,229

NONSOAP SYNTHETIC DETERGENT IN CAKE FORM

William Monroe Walters, Eleanor, W. Va.

No Drawing. Application October 6, 1950, Serial No. 188,868

3 Claims. (Cl. 252—161)

1. A detergent composition in solid cake form comprising a mixture of 35–65 parts sodium sulfate and 65–35 parts of an alkali-metal salt of an alkylated benzene sulfonic acid, and at least one but not more than ten parts per 100 parts of the aforesaid solid constituent mixture of a compound selected from the group consisting of glycols and glycol-ethers whereas said members contain at least three carbon atoms and not more than two hydroxyl groups having a molecular weight not exceeding about 150.

2,643,230

UNIVERSAL pH INDICATOR

Shannon Mooradian, Somerville, and Henry E. Millson, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 12, 1950, Serial No. 184,516

1 Claim. (Cl. 252—408)

As a new composition of matter, a universal pH indicator for determining the pH of protein fibers within the pH range of 1–9 comprising a water solution containing about .0272% bromothymol blue, about .0128% meta-cresol purple, and about .0004% rosolic acid.

2,643,231

PREPARATION OF HYDROGEL BEADS FOR DRYING

Henry Erickson, Calumet City, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 28, 1950, Serial No. 141,171

4 Claims. (Cl. 252—448)

1. In the preparation of bead form silica gel base cracking catalyst selected from the group consisting of silica alumina and silica magnesia, the step of treating the bead form hydrogel before drying with an aqueous solution containing from 0.1 to 0.5 weight per cent of a surface active agent based on total water content, the said surface active agent being selected from the group consisting of alkyl aryl sulfonates and sulfonated alkyl succinates.

2,643,232

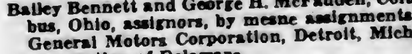
POLYMERIC DIGUANIDES

Francis Leslie Rose and Geoffrey Swain, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

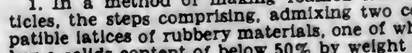
No Drawing. Application August 14, 1950, Serial No. 179,368. In Great Britain August 22, 1949

9 Claims. (Cl. 260—2)

8. Process for the manufacture of the polymeric substances which in the form of their free bases are linear polymeric substances in which the recurring unit is represented by the formula:



wherein X and Y stand for bridging groups which comprise polymethylene chains and are free of reactive substituents and in which together the total number of carbon atoms directly interposed between the adjacent nitrogen atoms is greater than 9 and smaller than 17, which comprises heating a bisdicyandiamide of the formula:



with a diamine of the formula:

$$NH_2—Y—NH_2$$

wherein X and Y have the meaning stated above, the diamine being used in the form of a salt thereof.

2,643,233

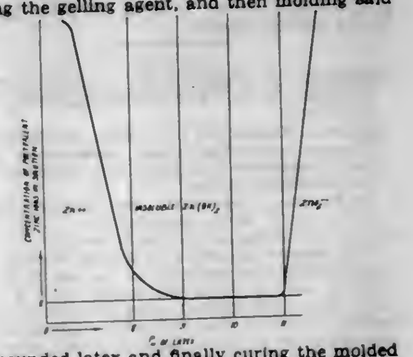
METHOD OF MAKING LATEX FOAM

Bailey Bennett and George H. McFadden, Columbus, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 28, 1950, Serial No. 158,720

7 Claims. (Cl. 260—2.5)

1. In a method of making foamed latex articles, the steps comprising, admixing two compatible latices of rubbery materials, one of which has a solids content of below 50% by weight and a pH of not more than 8.5 and the other of which has a solids content of above 50% by weight and a pH of above 10 in proportions so that the resulting mixture of latices has a solids content of at least 50% by weight and a pH within the range of 8 to 9.8, adding the zinc oxide and all of the compounding ingredients to the latex except the gelling agent, foaming the latex, adding the gelling agent, and then molding said



compounded latex and finally curing the molded latex.

2,643,234

NONSKID CREPE RUBBER COMPOSITION

Cecil F. Backus, Wilmington, Del.

No Drawing. Application April 2, 1949, Serial No. 85,257

2 Claims. (Cl. 260—5)

1. A crepe, non-skid composition consisting essentially of 100 parts by weight of polymerized chloro-2-butadiene-1,3 having plasticity numbers in millimeters of 302 to 377 and recovery numbers of 38 to 53 at 80° C. and three minutes, a specific gravity of about 1.23 and which gels but does not dissolve in hydrocarbon solvents prior to milling which has been milled until it has ASTM plasticity numbers of from 355 to 280 at 80° C. and is soluble in hydrocarbon solvents, from 250–500 parts by weight of a volatile hydrocarbon solvent for said milled polymerized chloro-2-butadiene-1,3, from 2 to 20 parts by weight of a tack-improving organic resin from the group consisting of wood rosin, hydrogenated methyl abietate, polyhydric alcohol ester of hydrogenated rosin, ester gum, phenol-formaldehyde resins, resorcinol-formaldehyde resins, and coumarone-indene resins, from 20 to 125 parts by weight of a filler of which at least 40 per cent is fibrous and organic and the balance nonfibrous, and from 50 to 200 parts by weight of ground rubber of a particle size sufficient to provide a crepe effect on solidifying and not substantially greater than 8 mesh, and which has not dissolved in said solvent.

2,643,235

ADHESIVE COMPOSITION CONTAINING BUTADIENE - STYRENE COPOLYMER AND A TACK-PRODUCING RESIN

Stewart L. Brams, West Alexandria, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application April 26, 1950, Serial No. 158,329

2 Claims. (Cl. 260—27)

1. An adhesive composition, consisting of a suitably fluid, highly tacky mixture of butadiene-styrene copolymer 100 parts, sulphur and accelerator in substantially equal proportions 1 to 20 parts, a tack-producing resin taken from the class consisting of wood rosin, hardened wood rosin and coumarone indene resin and mixtures thereof 150 to 250 parts, together with pigments and softeners, all of said ingredients being mixed at temperatures ranging from 275° F. to 325° F. for a time sufficient to effect a cure of the rubbery

compound in situ during the mixing operation and sufficient solvent to bring the cured mixture to the desired fluidity.

2,643,236

METHOD OF PREPARING CONDENSATION PRODUCTS OF PENTAERYTHRITOL AND GLYOXAL

Edward L. Kropa, Old Greenwich, and Walter M. Thomas, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 29, 1950, Serial No. 203,556

1 Claim. (Cl. 260—29.2)

The method of preparing a clear, viscous, syrupy reaction product that can be cast on a glass surface and air-dried thereon to yield a hard, clear film, said method comprising mixing and heating together the following ingredients for 4–5 hours, in an open reaction vessel, at a temperature corresponding to that produced by a steam bath: pentaerythritol, aqueous glyoxal and concentrated sulfuric acid, the aforesaid ingredients being employed in weight proportions corresponding to 68 parts pentaerythritol, 94 parts 30.8% aqueous glyoxal and 1 part concentrated sulfuric acid.

2,643,237

IMIDES AS STABILIZERS FOR POLYSULFONE RESINS

John F. Howe and John E. Wicklatz, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 13, 1951, Serial No. 241,688

30 Claims. (Cl. 260—29.6)

1. In a method for the preparation of a heteropolymeric resin, formed by the interaction of sulfur dioxide and an unsaturated organic compound, wherein the unsaturation is a double bond between adjacent carbon atoms and which will polymerize with sulfur dioxide to form a resin the improvement which comprises incorporating an imide into said heteropolymeric resin.

2,643,238

ADHESIVE AND COATING COMPOSITION FROM SYNTHETIC COPOLYMERS

Robert N. Crozier and Wilfred K. Wilson, Springfield, Mass., assignors to Shawinigan Resins Corporation, Springfield, Mass., a corporation of Massachusetts

No Drawing. Application May 29, 1951, Serial No. 228,970

3 Claims. (Cl. 260—33.8)

1. A composition comprising 100 parts of a copolymer of 10 mols of a vinyl ester of an aliphatic acid containing 2–6 carbon atoms and 0.25–1.0 mol of the reaction product of 2 mols of a monoalkyl ester of maleic acid with less than 1 mol of a basic reacting ammonium compound, 5–150 parts of a plasticizer for the copolymer and 3–50 parts of a chlorinated diphenyl.

2,643,239

NITROGEN-CONTAINING POLYETHERS AND PROCESS FOR CURING GLYCIDYL POLYETHERS TO RESINOUS PRODUCTS

Edward C. Shokal, Walnut Creek, Herbert A. Newey, Lafayette, and Theodore F. Bradley, Orinda, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application March 28, 1951, Serial No. 218,094

6 Claims. (Cl. 260—42)

1. A process for curing a glycidyl polyether having a 1,2-epoxy equivalency greater than 1.0 to a resinous material which comprises resinifying said polyether in admixture with the preformed reaction product from reaction of a glycidyl polyether of a dihydric phenol having a 1,2-epoxy equivalency between 1.0 and 2.0 with a secondary amine containing a single nitrogen atom which is linked directly to two different carbon atoms and containing besides the single nitrogen atom only the elements carbon and hydrogen while having in the reaction mixture at least 1.5 mols of said amine per epoxide equivalent weight of said phenol-derived polyether.

2,643,240

POLYSILOXANE ANTIFOAM AGENTS

Richard K. Walton, Montclair, and Philip A. Thomas, East Orange, N. J., assignors to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application April 13, 1950, Serial No. 155,780

5 Claims. (Cl. 260—43)

1. An anti-foam agent composed of an ethyl siloxane polymer having a ratio of ethyl groups to silicon atoms of about 1 to 1, said ethyl siloxane polymer having been condensed and equilibrated in the presence of a mineral acid catalyst to such a degree of condensation that, after heating the anti-foam agent for one hour at 145° C. to obtain a residue the residue contains from 88 to 94% by weight of material which does not volatilize on heating such residue for one hour at 200° C.

2,643,241

STABILIZATION OF POLYSULFONE RESINS WITH ORGANIC SULFIDES

Willie W. Crouch and John F. Howe, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 2, 1951, Serial No. 204,070

24 Claims. (Cl. 260—45.7)

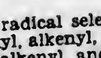
1. A method for the preparation of an olefin-sulfur dioxide resin composition, comprising emulsifying a mono-olefinic organic compound in an emulsion of the oil-water type, and in the presence of sulfur dioxide in a mol ratio to said mono-olefinic compound greater than 1:1, effecting interreaction of said sulfur dioxide with said mono-olefinic compound to form a latex, introducing into intimate admixture with said latex an organic sulfide characterized by the structural formula

$$R—S_n—R$$

wherein R is selected from the group consisting of Y,



and



wherein Y is a radical selected from the group consisting of alkyl, alkenyl, aryl, alkaryl, aralkyl, cycloalkyl, cycloalkenyl, and such a radical containing at least one of the group consisting of sulfur and oxygen in an ether linkage, wherein X is selected from the group consisting of oxygen and sulfur, wherein n is an integer of from 1 to 5, and wherein the total number of carbon atoms does not exceed 20, and recovering from the resulting latex admixture a sulfur dioxide-olefin resin of improved stability to thermal decomposition as a product of the process.

2,643,242

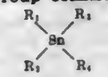
POLYMERIZED DICHLOROSTYRENES CONTAINING ORGANO-TIN ANTICRAZING AGENTS

John W. Churchill, Kenmore, N. Y., assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

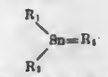
No Drawing. Application August 18, 1948, Serial No. 45,000

6 Claims. (Cl. 260—45.75)

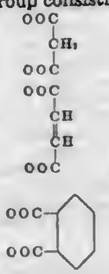
1. Polymerized dichlorostyrenes having incorporated therein a small quantity of an anti-crazing agent which consists of an organo tin compound having the structural formula selected from the group consisting of:



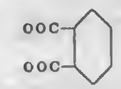
and



wherein R_1 and R_2 are selected from the group consisting of phenyl and alkyl radicals, R_3 and R_4 are selected from the group consisting of phenyl, alkyl, and lauroyloxy radicals, and R_5 is selected from the group consisting of oxygen,



and



radicals.

2,643,243

CURING GLYCIDYL POLYETHERS OF DIHYDRIC PHENOLS WITH SULFONIC ACIDS

Hans Dannenberg, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application February 26, 1951, Serial No. 212,831

15 Claims. (Cl. 260—49)

1. A process of resinifying glycidyl polyether of a dihydric phenol having a 1,2-epoxy equivalency greater than 1.0 and having as functional groups only epoxy and hydroxyl groups which comprises commingling said polyether with 0.1 to 5% by weight of a reactant consisting of a substituted hydrocarbon free of other substituent groups than one to three single members of the class consisting of sulfonic acid and sulfonyl halide groups, and permitting the resulting mixture to resinify and cure to a solid resinous product.

2,643,244

EPICHLORHYDRIN-SULFONAMIDE RESINS

John Kenson Simons, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application April 16, 1948, Serial No. 21,563

12 Claims. (Cl. 260—49)

1. A method of producing a synthetic resin that comprises reacting epichlorohydrin at a sulfamine radical in a sulfonamide whose molecule has at least two hydrogen atoms each connected to a sulfonamide nitrogen atom, in a ratio of from 0.5 to 3 molecules of epichlorohydrin for two sulfonamide hydrogen atoms, the reaction being carried out in an aqueous solution of ½ to 1 equivalents of a strong base for each mol of epichlorohydrin.

2,643,245

COPOLYMERS AND COPOLYMER EMULSIONS OF SALTS OF MONOALKYL ESTERS OF MALEIC ACID

Wilfred K. Wilson, Springfield, Mass., assignor to Shawinigan Resins Corporation, Springfield, Mass., a corporation of Massachusetts

No Drawing. Application May 29, 1951, Serial No. 228,968

10 Claims. (Cl. 260—78.5)

1. A batch copolymerization process which comprises reacting together in an aqueous medium and in the presence of a polymerization catalyst, 10 mols of a vinyl ester of an aliphatic acid containing 2–6 carbon atoms with 0.25–1.0 mol of a monoalkyl ester of maleic acid reacted with an alkaline reacting material selected from the group consisting of ammonium and alkali metal compounds.

2,643,246

WATER-SOLUBLE COPOLYMERS OF SALTS OF MONOALKYL ESTERS OF MALEIC ACID

Wilfred K. Wilson, Springfield, Mass., assignor to Shawinigan Resins Corporation, Springfield, Mass., a corporation of Massachusetts

No Drawing. Application May 29, 1951, Serial No. 228,969

9 Claims. (Cl. 260—78.5)

1. A polymerization process which comprises reacting together in an aqueous medium and in the presence of a polymerization catalyst, 10 mols of a vinyl ester of an aliphatic acid containing 2–6 carbon atoms and 0.25 to 1.0 mol of a monoalkyl ester of maleic acid reacted with an alkaline reacting material taken from the group consisting of ammonium and alkali metal compounds, the salt of the monoalkyl maleate acid being introduced into the aqueous medium containing the vinyl ester at such a rate that not over about 0.15 mol of unreacted monoalkyl maleate salt is present at any time throughout the polymerization.

2,643,247

SYNTHETIC RUBBERLIKE MATERIALS FROM AN ALKYL ACRYLATE AND AN ALIPHATIC DIENE HYDROCARBON

Charles H. Fisher, Abington, and William C. Mast, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Original application May 25, 1945, Serial No. 595,866. Divided and this application April 4, 1952, Serial No. 281,449

3 Claims. (Cl. 260—79.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process of preparing a synthetic rubber comprising heating a mixture containing, as monomeric components, an alkyl acrylate and an aliphatic dienic hydrocarbon in the proportion, by weight, of at least 80 percent of the acrylate to at least 1 percent of the dienic hydrocarbon, to effect copolymerization of said monomeric components, compounding the resulting copolymer with sulfur as a vulcanizing agent and heating the compounded mixture to effect vulcanization.

2,643,248

METHOD OF SULFURIZING TERPENE HYDROCARBONS

Elmer W. Brennan, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application May 2, 1950, Serial No. 159,660
17 Claims. (Cl. 260—139)

1. The method, for preparing sulfurized isoprenoid hydrocarbons, comprising reacting said isoprenoid hydrocarbons with a sulfurizing agent present in an amount at least stoichiometrically equivalent to that necessary to react with said isoprenoid hydrocarbons, at a temperature at least above the melting point of sulfur but below the decomposition point of said isoprenoid hydrocarbons, and promoting said reaction by the presence of a small amount of a promoter selected from the group consisting of lead oxides, hydrated lead oxides, metal salts of lead acids and their mixtures.

2,643,249

METHOD OF OBTAINING CRYSTALLINE SALTS OF STREPTOMYCINS

Leon J. Heuser, Robbinsville, N. J., assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

No Drawing. Application September 23, 1950, Serial No. 186,486
10 Claims. (Cl. 260—210)

1. The method of obtaining a crystalline salt of a streptomycin, which comprises: treating a salt-type combination derived from the streptomycin and a member of the group consisting of

$C_4H_9CH(C_2H_5)C_2H_4CH(SO_4Na)C_2H_4CH(C_2H_5)_2$

and

$C_4H_9CH(C_2H_5)C_2H_4CH(SO_4Na)CH_2CH(CH_3)_2$

with a member of the group consisting of calcium chloride, calcium bromide, calcium nitrate, and any of these salts with the corresponding acid in a medium essentially comprising methanol; and recovering the formed crystalline salt of the streptomycin.

2,643,250

ISOCYANATE DIMERS AS COLOR FORMING INTERMEDIATES

Otto Stallmann, Bridgeton, N. J., and Esley O. Langerak, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 16, 1951, Serial No. 256,819
3 Claims. (Cl. 260—239)

1. The compounds of the following general formula:

$H_2N—Aryl—D—Aryl—NH_2$

in which Aryl—D—Aryl stands for a dimer of aryl isocyanates of the benzene and naphthalene series.

2,643,251

PRECIPITATION OF FINE PARTICLE PROCAINE PENICILLIN G

Frank W. Staab, Syracuse, and John M. Kolbas, Tully, N. Y., assignors to Bristol Laboratories Inc., Syracuse, N. Y., a corporation of New York

No Drawing. Application March 29, 1950, Serial No. 152,748
3 Claims. (Cl. 260—239.1)

1. The method of producing crystals of procaine penicillins of high therapeutic potency having a particle size within the range of from 1 to 5 microns which comprises the steps of dissolving a procaine penicillin in one volume of methanol at a temperature of 35 to 40° C., adding the warm methanol solution of procaine penicillin to 5 to 15 volumes of carbon tetrachloride having a temperature of between 0 to 10° C., mildly agitating the mixture to precipitate crystals of the procaine penicillin having a particle size of from 1 to 5 microns, and separating and drying the fine particle size crystalline product.

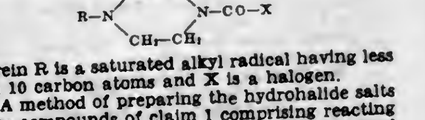
2,643,252

3,8-BIS-(TRIFLUOROMETHYL)-BENZO(C) CINNOLINE AND N-OXIDES THEREOF

Sidney D. Ross, Williamstown, and Irving Kuntz, North Adams, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

No Drawing. Application September 25, 1951, Serial No. 246,276
4 Claims. (Cl. 260—250)

4. A compound conforming to the following general formula



wherein x is an integer selected from the group 0 and 1.

2,643,253

DI-QUATERNARY SALTS OF 4-AMINO-6-(2'-AMINO PYRIMIDYL-4'-AMINO) QUINAZOLINE AND PROCESS OF PREPARING SAME

Francis Henry Swinden Curd, deceased, late of Blackley, Manchester, England, by Muriel Ruth Curd, executrix, Bramhall, England, and Edwin H. P. Young, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application December 3, 1951, Serial No. 259,708. In Great Britain December 6, 1950
5 Claims. (Cl. 260—256.4)

1. Di-quaternary salts of 4-amino-6-(2'-amino-pyrimidyl-4'-amino) quinazoline.

5. Process for the manufacture of di-quaternary salts of 4-amino-6-(2'-aminopyrimidyl-4'-amino) quinazoline which comprises reacting a member of the group consisting of 4-amino-6-(2'-aminopyrimidyl-4'-amino) quinazoline and mono-quaternary salts thereof with a quaternary salt-forming agent.

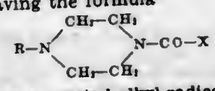
2,643,254

PIPERAZINE COMPOUNDS AND METHOD FOR MAKING SAME

Henri Gustave Prosper Jacob Morren, Forest, Brussels, Belgium, assignor to Union Chimique Belge, S. A., Brussels, Belgium, a corporation of Belgium

No Drawing. Application October 19, 1949, Serial No. 122,351. In Belgium and Belgian Congo October 30, 1948
17 Claims. (Cl. 260—268)

1. A compound of the group consisting of the following free base and its hydrohalide salts, said free base having the formula



wherein R is a saturated alkyl radical having less than 10 carbon atoms and X is a halogen.

6. A method of preparing the hydrohalide salts of the compounds of claim 1 comprising reacting the corresponding 1-alkyl-piperazine compound with the corresponding carbonyl halide in an inert solvent solution.

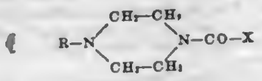
2,643,255

METHOD OF PREPARING PIPERAZINE COMPOUNDS AND A NEW TYPE OF COMPOUND PRODUCED THEREBY

Henri Gustave Prosper Jacob Morren, Forest, Brussels, Belgium, assignor to Union Chimique Belge, S. A., Brussels, Belgium, a corporation of Belgium

No Drawing. Application October 19, 1949, Serial No. 122,352. In Belgium and Belgian Congo October 30, 1948
22 Claims. (Cl. 260—268)

1. A method for producing a compound of the group consisting of: 1-alkyl-piperazine-4-carboxamides and their acid salts, said carboxamides having the formula:



wherein R is a saturated alkyl radical of less than 10 carbon atoms, and wherein X is an amine radical selected from the group consisting of alkyl and aryl primary and secondary amines containing less than 20 carbon atoms, said method comprising: reacting a corresponding 1-alkyl-piperazine-4-carbonylhalide compound with a corresponding amine.

3. Compounds of the type of 1-alkyl-1-hydrohalide-piperazine-4-thiodiphenylcarboxamide.

2,643,256

PREPARATION OF 2-AMINOPYRIDINE AND 2-AMINOQUINOLINE

Nat H. Marsh, Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 28, 1950, Serial No. 141,155
4 Claims. (Cl. 260—288)

1. The process for aminating a member of the group consisting of pyridine and quinoline that comprises heating said member with ammonia in the presence of a Raney catalyst at a temperature within the approximate range of 200° to 490° C. and recovering the thus-aminated compound.

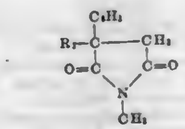
2,643,257

SUBSTITUTED SUCCINIMIDES

Charles A. Miller, Detroit, and Loren M. Long, Grosse Pointe Woods, Mich., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application April 12, 1950, Serial No. 155,562
4 Claims. (Cl. 260—326.5)

1. A compound of the formula



wherein R_3 is lower alkyl.

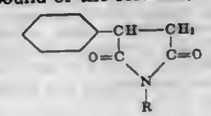
2,643,258

SUBSTITUTED SUCCINIMIDES

Charles A. Miller, Detroit, and Loren M. Long, Grosse Pointe Woods, Mich., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application April 12, 1950, Serial No. 155,563
4 Claims. (Cl. 260—326.5)

1. A compound of the formula,



wherein R is a member of the class consisting of methyl and allyl radicals.

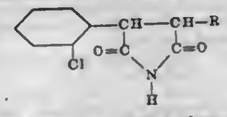
2,643,259

SUBSTITUTED SUCCINIMIDES

Charles A. Miller, Detroit, and Loren M. Long, Grosse Pointe Woods, Mich., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application April 12, 1950, Serial No. 155,564
3 Claims. (Cl. 260—326.5)

1. A compound of the formula,



wherein R is a member of the class consisting of hydrogen and methyl.

2,643,260

WINTERIZED VEGETABLE OIL AND PROCESS OF PRODUCING THE SAME

Arnold L. Ayers and Cleveland R. Scott, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Original application November 25, 1949, Serial No. 129,494, now Patent No. 2,607,695, dated August 19, 1952. Divided and this application April 16, 1952, Serial No. 291,992
8 Claims. (Cl. 260—398.5)

1. The process of winterizing a vegetable oil which comprises the step of adding to the oil linoleic acid dimer as a stabilizer.

2,643,261

PHOSPHORUS-CONTAINING LUBRICATING OIL ADDITIVES

Alfred H. Matuszak, Jersey City, and Charles A. Weisel, Somerville, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 1, 1948, Serial No. 52,394
3 Claims. (Cl. 260—399)

1. As a new composition of matter, a phosphorus-containing ester prepared by reacting together pentaerythritol mono-oleate and a C_1 to C_{30} monohydroxy aliphatic alcohol at temperatures not above reflux with a phosphorus-containing material selected from the group which consists of $POCl_3$, PCl_3, and $PSCl_3$, in the presence of pyridine and a solvent, said ester being stripped of water and of said pyridine and solvent after reaction is substantially complete.

2,643,262

ORGANIC COMPOUNDS OF TITANIUM

Charles O. Bostwick, Stanton, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

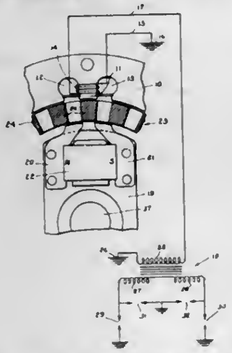
No Drawing. Application April 28, 1950, Serial No. 158,920
19 Claims. (Cl. 260—429)

1. A process for the preparation of organic solvent-soluble new organic compounds of titanium which comprises reacting an organic tetra ester of orthotitanic acid corresponding to the formula $Ti(OR)_4$, wherein R is selected from the group consisting of alkyl, aryl, aralkyl, and alkaryl with a glycol having the general formula

$$R{-}CHOH{-}CH{-}CH_2OH$$
$$\quad\quad\quad

ELECTRICAL

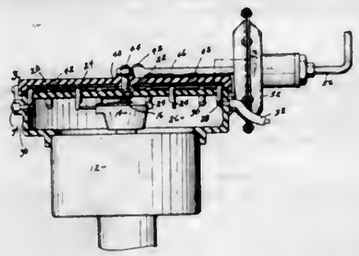
2,643,274
IGNITION SYSTEM AND GENERATOR THEREFOR
Sidney E. Miller, Suffield, Conn., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application January 28, 1950, Serial No. 140,991
17 Claims. (Cl. 123—148)



11. In an internal combustion engine ignition system, a generator driven by the engine and having a stator having multiple tooth sections with an intermediate tooth of each section having a generating coil, a magnet rotor having a pair of magnetic poles and a flux reversing ring between said stator and magnet rotor, said flux reversing ring having at least one pair of magnetic bridges adapted to effect a reversal of flux as rotation is effected between said ring and said stator and rotor and adapted to produce by the reversal of flux therebetween an output consisting of a group of impulses in rapid succession at each firing period of the engine with a period of substantially zero generation between successive groups of impulses, a transformer having its primary connected to the output terminals of said generator and a load circuit connected to the secondary of said transformer and including spark gap means for said engine periodically energized by said groups of impulses.

2,643,275
AUTOMATIC SPARK PLUG SWITCH
Davis H. Saunders, Maquoketa, Iowa
Application August 27, 1952, Serial No. 306,666
7 Claims. (Cl. 123—148)

1. In combination with an internal combustion engine a variable gap spark plug system comprising, two mutually insulated spark gaps in each cylinder of said engine, an ignition coil, a breaker and distributor finger assembly timed to said engine and electrically connected to said ignition coil, a top for said breaker and distributor finger assembly having a plurality of contacts therein evenly spaced around said distributor finger and adjacent to the path described by the end of said distributor finger, a plurality of spark plug contacts arranged around said top; said spark plug contacts being twice as numerous as said distributor contacts, leads connecting the spark plugs in each cylinder to adjacent ones of said spark plug contacts, a switch plate moveably secured to said top, a plurality of contact plates secured to said switch plate; each of said contact plates selectively connecting both of the spark plug contacts for one cylinder to one of said dis-



tributor finger contacts and only one of said spark plug contacts to said distributor finger contact, and a means operatively associated with said engine and said switch plate for selectively moving said switch plate.

2,643,276
NEGATIVE ELECTRODE FOR ALKALINE STORAGE BATTERIES AND METHOD OF MANUFACTURING THE SAME
Jean Salauze, Paris, France, assignor to Societe des Accumulateurs Fixes et de Traction, Romainville, France, a French body corporate
No Drawing. Application January 22, 1951, Serial No. 207,237. In France December 14, 1950
14 Claims. (Cl. 136—23)

9. A negative electrode plate for an alkaline electric accumulator which comprises a frame, and a wire mesh-like supporting element carried by said frame, said wire mesh-like element being embedded in a highly compressed mixture of negative active material and a finely divided copper composed of minute crystals having an acicular, arborescent needlelike or dendritical shape and said negative active material consisting of an iron providing substance which in said mixture has the proportions of between 20% and 80% and preferably the proportion of 50% thereof.

2,643,277
PHOTOVOLTAIC CELL
Erwin E. Falkenthal, Berlin-Dahlem, Germany
Application April 11, 1950, Serial No. 155,138
In Germany September 16, 1949
5 Claims. (Cl. 136—89)



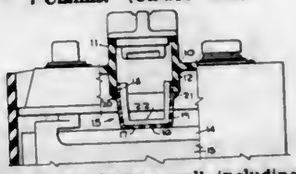
5. A photovoltaic cell of the layer-type comprising a conducting carrier, a light sensitive semiconductive layer and transparent current-collecting thin layer on said light-sensitive layer, said current-collecting layer consisting of an oxide, sulphide, selenide or telluride of cadmium.

2,643,278
DRY CELL
Arthur W. Simpson, Freeport, Ill., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application June 21, 1949, Serial No. 100,420
7 Claims. (Cl. 136—133)



1. In a dry cell, an open-top metal cup having its top edge-portion turned inwardly to form a narrow in-turned peripheral flange having an inwardly-facing edge, a terminal in said cup and spaced therefrom, a seal closure for said open top comprising a preformed stiff non-conductive flat wafer tightly impaled upon said terminal and extending from said terminal over said open top of said cup and having an outwardly facing edge brought into edge-to-edge sealing pressure engagement with said inwardly facing edge of said flange by a toggle motion of said flange and said wafer, said terminal being exposed through said wafer.

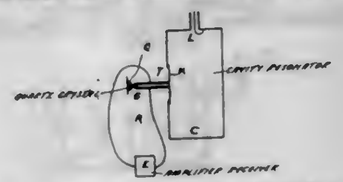
2,643,279
SEPARATOR PROTECTOR
James C. Bradley, Oreland, Pa., assignor to The Electric Storage Battery Company, a corporation of New Jersey
Application November 18, 1949, Serial No. 128,183
7 Claims. (Cl. 136—177)



1. In a storage battery cell including a cell cover having an opening therein a depending skirt surrounding said opening and alternate plates and separators, a device for protecting said separators comprising a base portion insertable through said opening, and resilient skirt contacting means associated with said base portion, said resilient means being in compressed frictional contact with said skirt.

2,643,280
METHOD AND APPARATUS FOR POWER MEASUREMENT AND DETECTION AT ULTRAHIGH FREQUENCIES
Jean Bernier, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application September 4, 1946, Serial No. 694,777
In France October 26, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires October 26, 1962
17 Claims. (Cl. 171—95)

9. The method of utilizing a movable element for measuring microwave energy comprising the steps of subjecting said element to the field of said microwave energy to provide mechanical displacement thereof substantially only in response to electrostatic field stresses induced in said element by said field, employing said mechanical displacement of said element to control electrical energy, and measuring said controlled electrical energy.

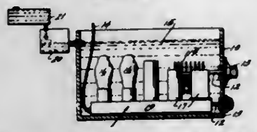


2,643,281
LIVE LINE STICK WITH RAIN SHIELD
Perry Joseph Bott, Little Rock, Ark., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application January 13, 1949, Serial No. 70,740
1 Claim. (Cl. 174—5)



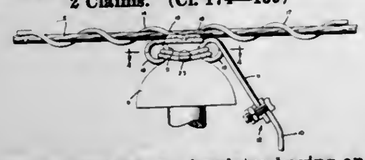
A live line stick comprising an elongated pole having a tool-receiving head mounted at its upper end, said head being provided with a ferrule portion which receives the upper portion of said pole, a sleeve embracing said ferrule portion of said head, an elongated tubular member formed of electrical insulating material whose upper portion embraces said sleeve, said elongated tubular member being of substantially greater diameter than said pole and being arranged in embracing relation with respect to a portion of said pole with the wall of said elongated tubular member spaced from the circumferential face of said pole in substantial parallelism therewith so as to provide an annular space of substantially constant width between the face of the bore of said elongated tubular member and the circumferential face of said pole, material for rendering water tight the joint between said ferrule portion of said head and said sleeve and the joint between said sleeve and the upper portion of said elongated tubular member, and an annular spacer located within the space between the wall of said elongated tubular member and the circumferential face of said pole in downwardly spaced relation with respect to said sleeve, said spacer being provided with air passageways formed therein.

2,643,282
ELECTRONIC EQUIPMENT COOLING MEANS
Albert D. Greene, Alpha, Ohio
Application April 13, 1949, Serial No. 87,321
12 Claims. (Cl. 174—15)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A container, an electronic apparatus assembly in said container, said electronic apparatus assembly comprising a plurality of cooperating electronic circuit elements of diverse structural and electrical characteristics some of which generate heat when energized, a volatile-liquid refrigerant having high dielectric strength and negligible corrosive effect on the structural materials of said electronic circuit elements, means for maintaining the pressure in said container at a value for which the boiling point of the refrigerant used is above the ambient temperature of the container and below the least of the maximum allowable operating temperatures of said electronic circuit elements, means for wetting said electronic circuit elements with the liquid refrigerant, means for electrically coupling said electronic apparatus assembly to circuit external to said container, and means for mechanically coupling any of said electronic circuit elements that are adjustable to adjusting devices external to said container.

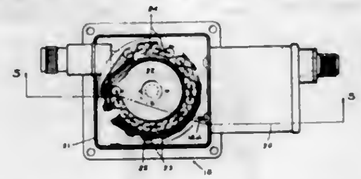
2,643,283
INSULATOR TIE
Edward C. Carlson, Chicago, Ill., assignor to Harold S. Sines, Chicago, Ill.
Application February 17, 1946, Serial No. 8,851
2 Claims. (Cl. 174—139)



1. In combination, an insulator having an exterior annular groove near one end, a line conductor extending across the end of the insulator, a binding element lying in the groove and embracing the insulator, ties connecting the binding element and regions of the line conductor at opposite sides of the insulator, and an electricity-conducting supporting member connected directly to the binding element at the insulator independently of the line conductor, one of said ties having a loop extending about the binding element, and the electricity-conducting supporting member being integral with the loop.

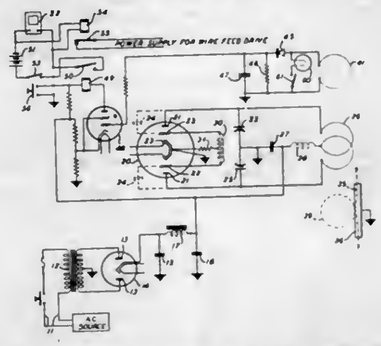
2,643,284
IGNITION SYSTEM
John F. Putnam, deceased, late of Westhampton, Mass., by Eleanor H. Putnam, administratrix, Westhampton, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application February 9, 1950, Serial No. 143,174
4 Claims. (Cl. 175—115)

2. In a device of the character described, a pair of attached housing portions, a vibrator in one of said housings and an ignition coil in the other of said housings, a rectifier in said housing for said ignition coil, said rectifier consisting of a plurality of selenium rectifier stacks or sections



in spaced relation surrounding said coil and connected in series and insulation for said stacks, said insulation being graded so that it increases as the voltage increases in the system.

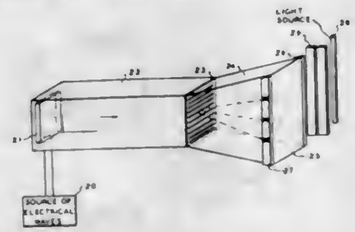
2,643,285
APPARATUS FOR DETECTING DISCONTINUITIES IN WIRE
Jesse A. Cranford, Buffalo, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 26, 1948, Serial No. 62,116
4 Claims. (Cl. 175—183)



1. In apparatus for locating opens in insulated wire, a first coil, means energizing the first coil whereby said first coil carries alternating current, a second coil in loosely coupled inductive relation to the first coil, an alarm associated with the second coil, means for passing the wire to be tested in a looped path through the field of the first coil and means for reducing the impedance of the said looped path.

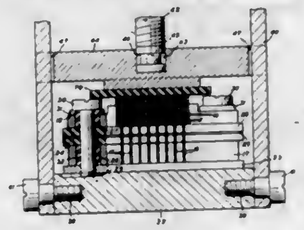
2,643,286
SPECTRUM ANALYZER FOR COMPRESSIONAL WAVES
Hyman Hurvitz, Washington, D. C.
Application June 21, 1950, Serial No. 169,503
6 Claims. (Cl. 175—183)

2. A spectrum analyzer comprising, a mass of birefringent solid moldable materials capable of transferring compressional waves, means for directing through said mass of solid birefringent moldable material a spectrum of compressional waves of various frequencies, a diffraction grating located in the patch of said waves within said mass of solid birefringent moldable material, for differentially diffracting said waves in accordance with their frequencies, and means for making visible the physical positions of said waves in



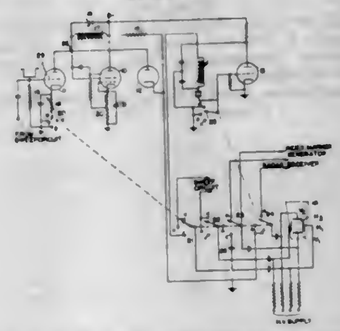
said material after diffraction of said waves, said last means comprising a polarizer and an analyzer.

2,643,287
APPARATUS FOR MEASURING THE SURFACE RESISTIVITY OF MATERIALS
Lowell J. Moeller, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 5, 1947, Serial No. 789,816
8 Claims. (Cl. 175—183)



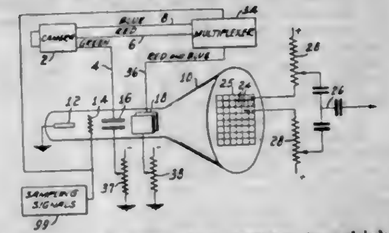
1. An apparatus for measuring the surface resistivity of insulating materials having a surface resistivity in excess of 10^{12} ohms per square, which comprises a plurality of contact plates spacedly arranged to produce parallel air gaps therebetween of uniform width and length, means for supporting said contact plates so that the top edges thereof are aligned in the same plane so that when a piece of insulating material whose surface resistivity is to be measured is positioned on the contact plates its surface engages each contact plate and bridges the air gaps formed therebetween, means provided on the member for clamping the piece of insulating material to be tested against the edges of the contact plates, a circuit arranged to apply a D. C. potential to the contact plates so that the air gaps provided between the contact plates are connected in parallel with each other in the D. C. circuit, said D. C. potential arranged to have an intensity sufficient to cause a leakage current to flow across the surface of each portion of the insulating material bridging the air gaps between the contact plates, and sensitive current responsive means provided in the D. C. circuit for measuring the total leakage current flowing across the portions of the surface of the insulating material bridging the said air gaps and thereby connected in parallel in the D. C. circuit, whereby the surface resistivity of the insulating material may be determined.

2,643,288
CALIBRATING APPARATUS
La Verne R. Philpott, Washington, D. C.
Application May 25, 1944, Serial No. 537,286
6 Claims. (Cl. 175—381)
(Granted under Title 35, U. S. Code (1952), sec. 266)



5. In a cathode ray tube timing instrument in which there is included a cathode ray tube and a beam sweeping circuit for periodically sweeping the electron beam of the cathode ray tube over a fixed timing locus, the combination comprising a keyable, regenerative oscillator, control circuit means coupled to said oscillator and said beam sweeping circuit for keying said oscillator into operation in synchronism with the generation of the time trace to produce an undamped, discontinuous train of oscillations, and means including a half wave rectifier for applying said oscillations to said cathode ray tube to deflect the electron beam thereof in a direction substantially perpendicular to the direction of the timing locus to thereby produce a series of equally spaced time indications thereon.

2,643,289
TELEVISION SYSTEM
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1949, Serial No. 113,318
13 Claims. (Cl. 178—5.2)



2. A color transmission system in which a number of different colors of different brightness and saturations are transmitted comprising a means for developing a first voltage wave having a characteristic thereof varied in accordance with a first color content produced by scanning an object, means for developing a second voltage wave having a characteristic thereof varied in accordance with a second color content produced by scanning the object, and means for assigning successive values of a given characteristic of a third voltage wave in such man-

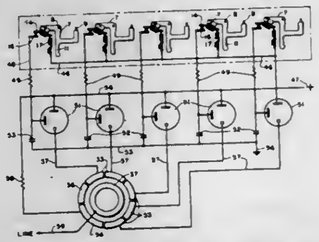
ner that successive groups of values correspond to successive total brightness levels, and each successive value represents a change in one color in one direction and a change in the other color in the opposite direction.

2,643,290

HIGH-SPEED TELEGRAPH TRANSMITTER

Theodore A. Hansen, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application April 1, 1950, Serial No. 153,325
5 Claims. (Cl. 178—17.5)



1. In a tape transmitter utilizing a perforated record, means for advancing the record, a plurality of members for sensing the record, electrical contacts controlled in accordance with the sensing by said members, storage means controlled by said electrical contacts, whereby said means for advancing the record may be initiated after a selection is stored in said storage means, individual cold cathode tubes connected in circuit with said storage means, a distributor, and individual segments on said distributor connected in circuit with said cold cathode tubes, whereby when said segments are traversed said cold cathode tubes will be rendered conducting or not conducting under the control of said storage means and in accordance with the selection stored therein.

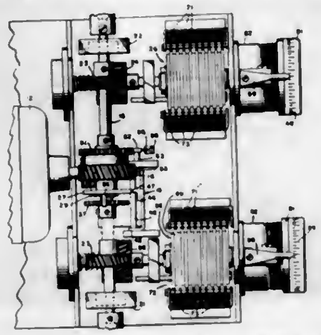
2,643,291

TELEGRAPH CONVERTER SYSTEM AND APPARATUS

Louis M. Potts, deceased, late of Evanston, Ill., by Martha W. C. Potts, executrix, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application June 18, 1947, Serial No. 755,445, now Patent No. 2,579,612, dated December 25, 1951. Divided and this application May 10, 1950, Serial No. 161,102
8 Claims. (Cl. 178—26)

1. In a telegraph converter apparatus, selector means responsive to the receipt of continuous signal code combinations, including idle signal code combinations, a first series of code bars controlled by said selector means in accordance with the receipt of said signal code combinations by said selector means, a series of character bars individually selectable by said code bars, a second series of code bars less in number than said first series of code bars and controlled by said individual character bars, a series of transmitting means individual to said second series of code bars and controlled thereby, means for cyclically operating said transmitting means to transmit signal code combinations composed of equal length impulses, means to transmit start-stop impulses to accompany each of said code combinations, and means responsive to the receipt of said idle signal code combinations by said selector means for preventing the operation of



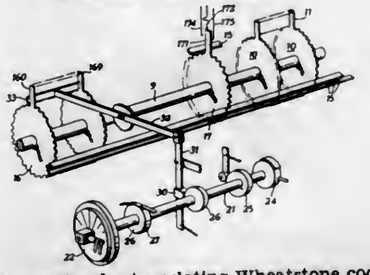
said cyclically operative means to thereby delete said idle signal code combination.

2,643,292

TELEGRAPHIC CODE TRANSLATOR

Ernst Aksel Borge Eliasen and Kaj Herman Frederik Jensen, London, England

Application March 6, 1951, Serial No. 214,103
In Great Britain March 13, 1950
12 Claims. (Cl. 178—26)



1. A machine for translating Wheatstone code telegraphic symbols recorded on punched tape into five-unit telegraphic signals there being a separate Wheatstone symbol for every telegraphic character whereas the five-unit signals are distributed, as for letters and for numerals or signs, in different groups of characters requiring the preliminary transmission of either of two shift key signals for a change from letters to numerals or signs or vice versa respectively; comprising a primary shaft, tape feed means operable stepwise once per revolution of the shaft, a plurality of a detector elements presented once per cycle to the punched tape to detect the position of the punched holes therein, means responsive to the action of such elements to control the operation of selector combs, cranks selected by the action of such combs in such manner that one crank is free to move for each recorded symbol on the tape, means responsive to said selected crank to effect the transmission of five-unit code signals, said means comprising two element groups, for letters and for numerals or signs respectively, means to hold either group from operation, a shift selector disc operable by said cranks only when a symbol of one group is detected following a symbol of another group, means to stop the tape feed acting after each movement of the shift selector disc, and

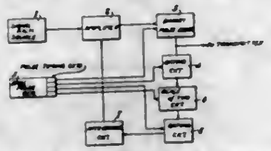
means whereby, after such stoppage, the common shift key signal is transmitted by the element group previously in use whereafter said group is made inoperative and the other element group made operative, the said second element group then transmitting the characteristic five-unit signal for the detected symbol.

2,643,293

VOLUME CONTROL FOR PULSE CODE MODULATION

Pierre Raoul Aigrain, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 19, 1948, Serial No. 34,097
8 Claims. (Cl. 178—43.5)



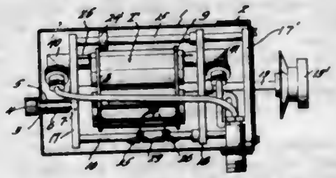
1. A system for minimizing the distortion of an amplitude modulated radio signal due to quantizing for conversion to pulse code modulation, comprising a source of an amplitude modulated signal, means for converting said signal into a series of pulse code groups representative of successive approximate signal levels for application to a pulse transmitter, means for producing a voltage representing the probable level amplitude distribution of subsequent quantized signal levels, and means for controlling the amplitude of said amplitude modulated signal in accordance with the probable level distribution voltage.

2,643,294

ADJUSTABLE COAXIAL ATTENUATOR ASSEMBLY

James W. Shaw, Los Angeles, Calif., assignor to Stoddart Aircraft Radio Company, Los Angeles, Calif.

Application July 10, 1950, Serial No. 172,811
9 Claims. (Cl. 178—44)



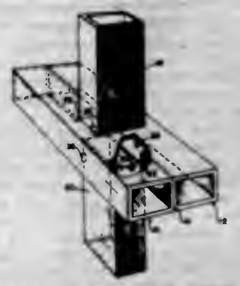
1. A coaxial cable switch, including two support members in relatively fixed spaced relation, one of said members being provided with a first connector means, means carrying a second connector means in predetermined axial relation to said first connector means and axially movable relatively thereto, a switch assembly comprising a switch member axially slidable between said connector means and carrying a plurality of switch elements arranged in a successive series for individual presentation between and axially of said connector means, means for effecting relative axial movement of said connector means and means for optionally presenting individual switch elements between and in axial alignment with said connector means.

2,643,295

MICROWAVE WHEATSTONE BRIDGE

Bernard A. Lippmann, New York, N. Y., and Julian S. Schwinger, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application September 13, 1946, Serial No. 696,922
6 Claims. (Cl. 178—44)



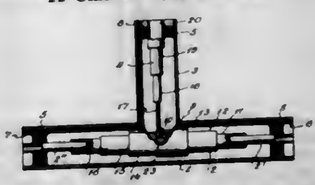
3. A microwave wave guide junction comprising, first and second contiguous rectangular wave guides having an opening in the common contiguous wall to form a common junction chamber having four wave guide arms, a third rectangular wave guide mounted with its broad walls perpendicular to said common wall and opening equally into said first and second wave guides at the location of said chamber and a fourth rectangular wave guide mounted in axial alignment with said third wave guide on opposite walls of said first and second wave guides with its narrow walls perpendicular to said common wall and opening equally into each of said first and second wave guides at the location of said chamber.

2,643,296

HIGH-FREQUENCY ENERGY DIVIDING APPARATUS

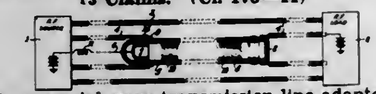
William W. Hansen, deceased, late of Stanford University, Calif., by Betsy R. Hansen, executrix, Stanford University, Calif.; Olive D. Ross, executrix of said William W. Hansen, deceased, assignor to The Sperry Corporation, a corporation of Delaware

Application September 28, 1949, Serial No. 118,298
11 Claims. (Cl. 178—44)



1. A microwave frequency power divider comprising three electromagnetic wave energy conductors coupled at a junction, said conductors having transformer means to present different impedances at said junction, said transformer means including sections of conductor electrically equivalent to one-quarter wavelength and defining characteristic impedance discontinuities, the logarithmic increments of the impedances along said conductors being proportional respectively to the coefficients resulting from the binomial expansion of $(X-1)^n$, where n is equal to the number of said sections.

2,643,297
GAS DISCHARGE TRANSMISSION ARRANGEMENT
Ladislas Goldstein, Weehawken, and Nathaniel L. Cohen, Teaneck, N. J., assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware
Application December 3, 1948, Serial No. 63,284
13 Claims. (Cl. 178—44)



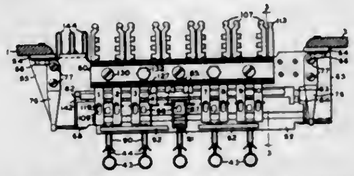
6. A coaxial wave transmission line adapted to couple a source of high frequency energy to a utilization circuit comprising an outer hollow conductor, an inner central conductor having two ends defining a gap therebetween, a gaseous discharge tube connected between the two ends of said conductor defining said gap, said tube having a pair of spaced electrodes adapted to be coupled to a source of ionizing potential, said electrodes adapted to initiate and to sustain a gaseous discharge plasma therebetween, a coating of light-responsive material on the wall of said tube in the space between said electrodes for increasing the high frequency conductivity of the plasma in response to the light energy derived therefrom, and means to isolate said sources from each other.

2,643,298
WAVE GUIDE DIRECTIONAL COUPLER
Charles E. Arnold, Milton, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application September 6, 1950, Serial No. 183,358
2 Claims. (Cl. 178—44)



2. A wave guide directional coupler comprising a circular wave guide portion and a plurality of rectangular wave guide portions joined at one end in pairs thereof and spaced in equidistant longitudinally juxtaposed position around the circumference of said circular wave guide with each rectangular wave guide portion intercoupled electromagnetically with said circular wave guide portion by a longitudinal slot, the longer cross-sectional dimension of each rectangular wave guide portion having a value providing equality of wave lengths in said circular and rectangular wave guide portions and extending radially of said circular wave guide over the length of said slot and the shorter dimension thereof varying in value at a substantially constant rate along the length of said slot, a rectangular wave guide portion joined at its ends to the electrical mid-points of individual pairs of said first-mentioned rectangular wave guide portions, and an additional rectangular wave guide portion joined at one end to the electrical mid-point of said last-mentioned wave guide portion.

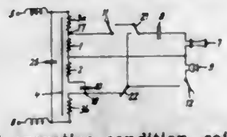
2,643,299
SELECTING AND ACTUATING MECHANISM FOR CROSSBAR SWITCHES
John I. Bellamy, Wheaton, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware
Original application March 1, 1944, Serial No. 524,816, now Patent No. 2,490,665, dated December 6, 1949. Divided and this application April 19, 1949, Serial No. 88,274
6 Claims. (Cl. 179—27.54)



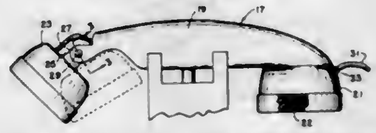
1. In combination, contact members comprising separately actuatable stackups mounted side by side in a row, an actuating member underlying the stackups and means for moving it toward and away from them between a released position and an actuated position, pivots disposed along the actuating member in association with the stackups respectively and having their axes generally parallel to the path of said movement of the actuating member, select fingers supported on said actuating member for rotation about said pivots respectively, each said finger comprising a single hairpin-like member of generally uniform cross section, portions of the shanks of any finger remotely located from the closed end thereof being formed to complement each other in retaining the finger on its said pivot for rotation back and forth about it laterally of its associated stackup between an ineffective position and an effective position, movement of the actuating member into its said actuated position leaving unactuated the stackup associated with any finger which is currently in its said ineffective position, a portion at the closed end of any finger in its said effective position engaging its associated stackup to transmit the last said movement of the actuating member thereto to actuate it.

2,643,300
TELEPHONE SUBSCRIBER SET WITH SIDE-TONE REDUCTION FOR CENTRAL BATTERY SYSTEMS
Jean Meyer de Stadelhofen, Bern, and Joseph Müller-Strobel, Jean Patry, and Richard Strub, Zurich, Switzerland, assignors to Albiswerk Zurich A. G., Zurich, Switzerland, a Swiss company
Application June 17, 1948, Serial No. 33,524
In Switzerland November 4, 1947
7 Claims. (Cl. 179—81)

1. A telephone substation with side-tone reduction for central battery systems, comprising line terminals, an auto-transformer having at least three unidirectionally wound windings series-connected with one another, a receiver and a capacitor series-connected with each other across the intermediate one of said three windings in the operative condition of the substation, another capacitor series-connected with said three windings across said terminals and disposed electrically between one of said terminals and one of the two outer windings, a microphone connected parallel to the series connection of said other capacitor and said one outer winding in said operative condition, said one outer winding having a direct-current resistance of at least one-quarter of the value of the direct-current resistance of said intermediate winding and at most equal to said value, whereby said resistances of said latter two windings are together effective to substantially reduce side tone.

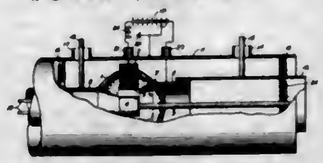


2,643,301
HAND TELEPHONE
Nathan J. Cornfeld, New York, N. Y.
Application April 11, 1949, Serial No. 86,833
1 Claim. (Cl. 179—103)
(Granted under Title 35, U. S. Code (1952), sec. 266)



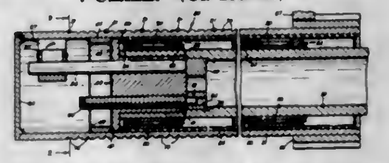
A hand telephone comprising integrally formed handle and receiver portions, a transmitter part, and means rotatably securing said transmitter part to said handle portion comprising ball means affixed rigidly on said transmitter part, and a ball-receiving socket on said handle portion, said ball means being substantially omnidirectionally rotatable in said socket, wherein in one extremal position of said transmitter part a normal to the active face thereof and a normal to the active face of said receiver portion form an acute angle, and wherein said handle is formed with a recessed base to receive said transmitter part when the latter is disposed in said extremal position.

2,643,302
ELECTRON DISCHARGE DEVICE AND CIRCUITS FOR NEUTRALIZED COAXIAL LINE AMPLIFIERS
Ervin M. Bradburd, Fairlawn, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 31, 1950, Serial No. 153,136
2 Claims. (Cl. 179—171)



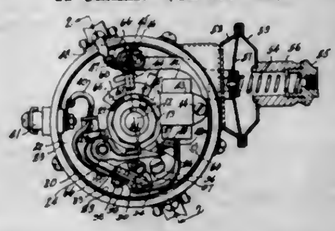
1. An amplifier of the coaxial line type comprising an electron discharge device having an indirectly heated cathode, anode and grid electrode coaxially mounted, a resonator comprising an outer shell coupled to the anode electrode for alternating current transfer, a first hollow cathode lead concentric with said outer shell extending into said device from one end, heater leads within said hollow lead, a second cathode lead extending out from said device from the other end and concentric with said outer shell, conductor means within said shell and concentric with said second cathode lead, means for coupling said conductor means with said grid electrode, adjustable plunger tuning means between said outer shell and said conductor means and between said conductor means and said second cathode lead, said plunger means between said conductor means and said second cathode lead being positioned to provide a neutralizing inductance of the desired degree for the grid-cathode capacitance of said electron discharge device, and a tuning plunger between said outer shell and said first cathode lead to provide an output resonator.

2,643,303
ELECTRICAL CONTACTOR ROLL FOR ELECTROPLATING MACHINES
Alexander C. Frankwich, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 24, 1949, Serial No. 112,051
7 Claims. (Cl. 191—1)



1. An electrical contactor for electroplating machines comprising an internally threaded fixed shaft, an elongated roller rotatably mounted upon the fixed shaft, and an externally threaded member threaded into the internally threaded shaft and engaging the roller effective, upon rotation thereof, to shift the roller along its longitudinal axis while still mounted upon the fixed shaft, whereby different portions of the peripheral surface of the roller may be engaged by elongated electrical conducting members passing thereover.

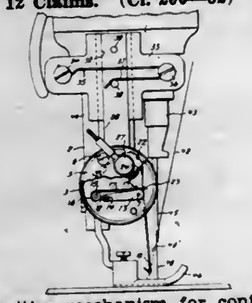
2,643,304
IGNITION TIMER
Argyle G. Lautzenhiser, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 3, 1949, Serial No. 125,353
11 Claims. (Cl. 200—31)



1. An ignition timer comprising a housing, an engine driven shaft journalled in the housing, a cam connected with the shaft, a plate having

a central opening fixed in the housing in a plane at right angles to the cam axis, a circuit breaker including a rubbing block engaged by lobes of the cam to move it to open the circuit breaker, an arcuate bearing provided by the plate on one side thereof and at the marginal wall of the central opening and on the side of the cam opposite to the side on which the rubbing block is located, said bearing being coaxial with the cam axis, a second plate supported by the first plate having one opening to receive the bearing and supporting the circuit breaker, a shoe supported by the second plate and presenting a cylindrical surface engaging the arcuate bearing, a spring attached to the first plate and engaging the shoe and applying pressure thereto in a direction such that the shoe is urged against the arcuate bearing and the second plate toward the first plate, and means for rotating the second plate to change the ignition timing.

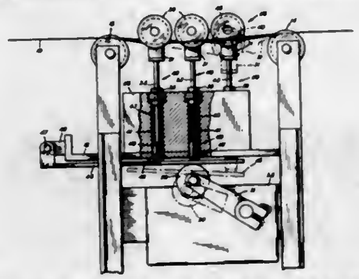
2,643,305
AUTOMATIC STOP FOR SEWING MACHINES
Martin S. Mansson, Long Island City, N. Y.
Application October 6, 1949, Serial No. 119,980
12 Claims. (Cl. 200—52)



1. A sensitive mechanism for controlling an electrical circuit such as that of a sewing machine motor comprising a receptacle, a shaft pivoted within and on a wall thereof and having a pressure sensitive member secured thereon on the outside of said receptacle and adapted to contact with a thread under tension and to be moved thereby, an extension on said shaft in said receptacle, a stub shaft pivoted in said receptacle in proximity to the free end of said extension, a movable contact member secured to said stub, a projection on said movable contact cooperatively attached to the end of said extension, whereby oscillation of said shaft causes oscillation of said stub shaft and movable contact, a fixed contact in proximity to said movable contact and adapted to close a circuit therewith, and a spring one end of which is attached to said receptacle and the other end having an angular portion in said receptacle engaging the free end of said movable contact to maintain it in open and closed positions alternately.

2,643,306
RUNOUT DETECTOR
James O. Hamilton, Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1950, Serial No. 146,738
4 Claims. (Cl. 200—52)

1. In apparatus for advancing a plurality of spaced filaments along predetermined paths, a runout detector which comprises a base having a plurality of spaced vertical bores formed therein, a plurality of individually movable plungers slidably mounted in said bores, resilient means for urging the plungers in one direction, means provided on one end of each of said plungers for engaging one of said filaments whereby the filaments normally support the plungers against the

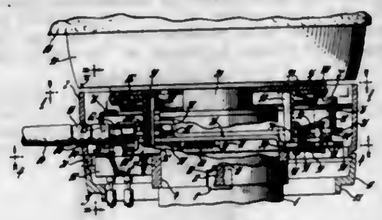


action of their respective resilient means, a normally closed switch for controlling the continuity of an electric circuit, and means actuated by the movement of any one of the plungers when its supporting filament breaks to open the switch so as to interrupt the circuit.

2,643,307
ELECTRIC SWITCH ACTUATOR
John J. Geel, Charlotte, N. C., assignor to Frances E. Shreve, Charlotte, N. C.
Application August 16, 1951, Serial No. 242,147
5 Claims. (Cl. 200—52)

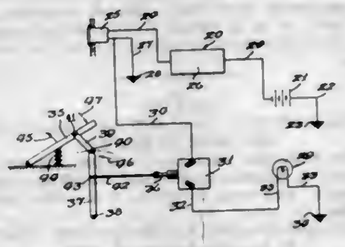
1. An actuator for a sensitive switch having a plunger for opening or closing the same and also having a pivoted lever arm extending over said plunger and said lever arm having a roller on the free end thereof, said actuator comprising means for engaging said roller to depress the lever arm to move said plunger to open or close the switch including a housing partially enclosing said switch and having a slot therein positioned over said lever, a slidable member slidably mounted between the slotted portion of the housing and said switch in superposed relation to the lever arm of said switch, said slidable member having a cam pivotally mounted adjacent one end thereof and adapted to engage the roller on said lever arm for depressing the same, U-shaped contact means fixed on the end of said slidable member remote from said cam and adapted to be contacted by material being processed for moving said slidable member to a position where the cam carried thereby will engage the roller on the lever arm to depress the same to actuate the switch, and spring means normally urging said slidable member and cam away from said roller.

2,643,308
DIRECTION SIGNAL SWITCH
Clovis W. Lincoln, Philip B. Zeigler, Joseph J. Verbrugge, and John F. Sloan, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 9, 1949, Serial No. 132,180
10 Claims. (Cl. 200—59)



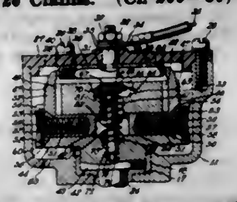
1. A direction signal switch for automotive vehicles adapted to be mounted on the steering column thereof for manual operation comprising a housing, an operating plate mounted in said housing, said plate being provided with a guide track transversely disposed with respect to said housing and in non-concentric relation thereto, a ring assembly mounted on said plate for movement in said housing along a path determined by said track, and a switch mounted in said housing with its operating member in engagement with said ring for actuation thereby.

2,643,309
SIGNAL DEVICE FOR MOTOR VEHICLES
Thomas D. Pellegrino, Garden City Park, N. Y.
Application August 17, 1950, Serial No. 179,950
1 Claim. (Cl. 200—59)



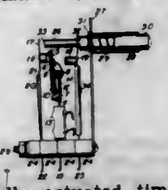
In a signal device for motor vehicles, said vehicle having an accelerator pedal and means resiliently urging said accelerator into an inoperative position, the combination, of a circuit, a single pole switch in said circuit normally in a closed position, means inserted between said accelerator pedal and said switch whereby upon a depression of the accelerator pedal, said switch will be opened, a movable element in said switch normally urged inwardly into said switch and closing the same, said means inserted between said switch and the accelerator pedal, including a pivoted arm, a pivoted link between the arm and the accelerator pedal, and a cord one end of the same being secured on the arm and the other end on said member in said switch whereby said pedal will move said arm in such a manner as to permit said member to move inwardly into said switch and close the same, but upon a depression of said pedal, said arm will pull said member out of said switch and thereby open it.

2,643,310
SPEED-RESPONSIVE DEVICE
Glenn T. Randol, Mountain Lake Park, Md.
Application June 22, 1951, Serial No. 232,948
20 Claims. (Cl. 200—80)



1. A speed-responsive device comprising a shaft adapted to be rotated at varying speeds, a rotor rotatable with said shaft and having a radial cross-bore therein, a fixed contact element located in spaced relation to said rotor, a piston movable in said cross-bore in response to rotational speeds of said rotor, said piston being movable radially outwardly of said rotor by centrifugal forces generated upon rotor rotation, a contact element movable with said piston into and out of contact with said fixed element, and spring means urging said piston radially inwardly in opposition to said centrifugal force.

2,643,311
THERMAL SWITCH
Philip Giuffrida, Lawrence, and Burton E. Shaw, East Boxford, Mass., assignors to Combustion Control Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 22, 1951, Serial No. 233,054
4 Claims. (Cl. 200—122)

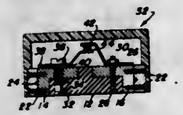


1. A thermally actuated time delay switch comprising a bimetallic contact actuating element having a heater winding thermally coupled thereto, a metallic retaining piece mechanically coupled to said contact actuating element, a contact supporting arm pivotally mounted upon the upper portion of said retaining piece, said contact supporting arm having a plurality of electrical contacts positioned thereon, a spring tensioned between said contact supporting arm and the lower portion of said retaining piece whereby the bending of said contact actuating element in response to thermal energy from said heater winding causes the line of direction of said spring force to reverse sides with respect to the pivot points of said contact supporting arm, and a plurality of contact leaves supporting stationary contacts disposed in a contact mating relationship with the contacts of said contact actuating element.

2,643,312
THERMOELECTRIC SWITCH
John A. Rodden, Pontiac, Mich.
Application June 11, 1951, Serial No. 230,860
4 Claims. (Cl. 200—138)

1. In a thermal responsive switch, a composite substantially rectangular block formed of a pair

of electrically conductive elements and an intervening insulating member, said insulating member being of inverted T-shape, said elements being of L-shape with the elements overlapping the insulating member, a pair of contact strips carried by the elements and having overlapping normally vertically spaced end portions, fastening means extending through the overlapping



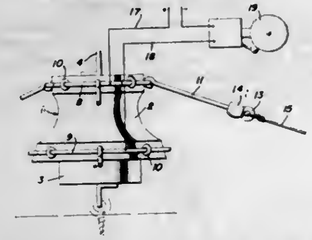
member and elements for securing the same and also securing the contact strips to the blocks, at least one of said strips being of bimetallic construction so that said end portion thereof moves toward and away from the end portion of the other strip upon temperature changes, and means for securing electrical conductors to said elements.

2,643,313

COMBINED BURGLAR AND FIRE ALARM

Cleve F. Christie, Knoxville, Tenn., assignor of ten per cent to Dorie A. Harrison, Knoxville, Tenn.

Application June 28, 1951, Serial No. 234,005
3 Claims. (Cl. 200—142)



1. A circuit closer for use in a room to close an open electric alarm circuit comprising a body of insulation material having means thereon for anchoring the same to the floor and ceiling of the room selectively, a pair of upper and lower contact rings fixed to said body in relatively spaced encircling relation thereto and adapted to be connected in opposite sides of said circuit, a plurality of conductor fingers spaced around said body and pivoted to said upper contact ring for gravitational swinging into engagement with said lower contact ring to bridge said rings for closing said circuit and being swingable outwardly of said lower ring out of bridging relation to said contact rings for maintaining said circuit open, and combustible breakable members attached to said fingers and attachable to the wall of the room to hold said conductor fingers in outswung circuit-opening position.

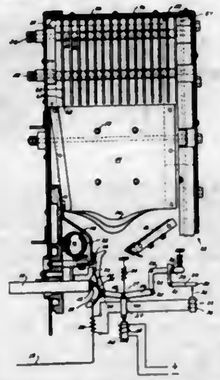
2,643,314

ARC CHUTE

Cornelius J. Ridgley, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 20, 1950, Serial No. 163,216
7 Claims. (Cl. 200—144)

1. In a circuit breaker having a pair of cooperable contacts, one of said contacts being movable with respect to the other of said contacts, an arc chute comprising a first plurality of spaced parallel insulating plates mounted parallel to the axis of the arc formed between the contacts when they separate, said plates forming a notch at their lower edges in which relative movement of said cooperable contacts occurs, an auxiliary arc chute comprising a second plurality of parallel insulating plates extending transversely of said first parallel plates for lengthening the arc path, the lower edges of at least some of said second plates being spaced above the top edges of said first plates, a portion of the lower edges



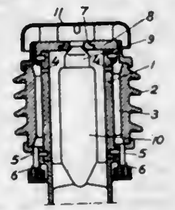
of each of said second plates being inclined to meet another lower portion of its associated plate so that when said second inclined portions of plates are inverted with respect to each other, a space transverse to the parallel direction of said first plates is formed, a closing insulating plate across the top of said second plates for fully enclosing the top of said auxiliary arc chute and vertically extending exhaust chambers for each side of said space for directing exhaust gases downwardly and opening into the atmosphere.

2,643,315

ARRANGEMENT IN ELECTRIC AIR BLAST CIRCUIT BREAKER

Haakon Forwald, Valhalla, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application August 15, 1950, Serial No. 179,506
In Sweden August 18, 1949
3 Claims. (Cl. 200—148)



1. In an electric air blast circuit breaker, means enclosing the air blast for the breaker elements, comprising an outer ceramic insulating cylinder, an inner cylinder of organic material spaced from the said outer cylinder and exposed on its inner surface to the fluid pressure of the circuit breaker, ducts for the passage of

fluid pressure from the interior of the said inner cylinder to the space between the cylinders, said ducts being in direct communication with the air blast, and restricted ducts for the passage of fluid pressure from said space to the outer air, the restriction through the latter ducts being such that the pressure within said space is considerably lower than the pressure within the inner cylinder and is at least twice that of the outer air.

2,643,316

RESISTANCE UNIT

Franklyn A. Glassow, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application October 11, 1951, Serial No. 250,927
1 Claim. (Cl. 201—63)



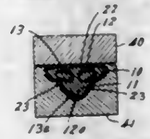
The combination of, a heater wire, a second wire whose resistance varies with ambient temperature changes, at least one of said wires comprising a metallic conductor surrounded by a thin coating of electrical insulation thereon, and a support, said wires being wound helically around said support and lying side by side in mechanical contact substantially throughout their lengths to permit the rapid transfer of heat from each part of said heater wire to the two adjacent parts of said second wire.

2,643,317

ELECTRIC HEATER

William R. Tuttle, Riverside, Ill., assignor to Tuttle & Kift, Inc., Chicago, Ill., a corporation of Illinois

Application February 11, 1950, Serial No. 143,631
10 Claims. (Cl. 201—67)



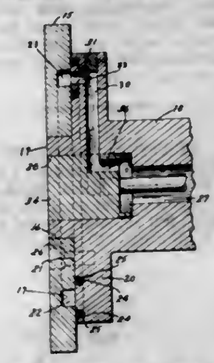
1. An electric heater comprising a tubular metal sheath filled with a compacted mass of granular refractory electrical insulation which conforms to the interior surface of the sheath and has an electrical resistance coil embedded therein and extending lengthwise of the sheath and separated electrically therefrom by said insulation, said sheath having a convex wall portion extending along one side thereof and a relatively wide flat wall portion extending along the opposite side thereof, said sheath having a convex wall portion along each lateral margin of said flat wall portion, and a pair of divergent reentrant concave wall portions extending respectively between each of the last mentioned convex wall portions and the first mentioned convex wall portion, each said concave wall portion being bent inwardly against a corresponding concave face of the mass of granular insulating material and holding said insulation compressed between said concave wall portion and the aforesaid flat wall portion and against the resistor.

2,643,318

WELD WHEEL CONSTRUCTION FOR SEAM WELDERS

Arthur L. Williams and Emmet A. Craig, Warren, Ohio, assignors to Federal Machine & Welder Company, Warren, Ohio, a corporation of Ohio

Application February 7, 1950, Serial No. 142,816
4 Claims. (Cl. 219—4)



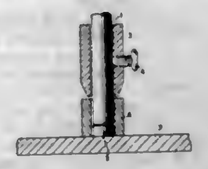
1. A weld wheel construction for a seam welder, comprising: a disc-like weld wheel having an annular groove formed in a side surface; flange means having a surface abutting said side surface and closing the open side of said grooves to form an annular chamber for receiving coolant means; said flange means having spaced annular grooves disposed on opposite sides of said chamber; and sealing means within respective ones of said spaced grooves for sealing against leakage from said chamber.

2,643,319

METHOD OF ELECTRIC ARC WELDING

Paul Christiaan van der Willigen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

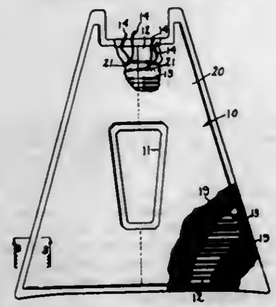
Application December 24, 1948, Serial No. 67,136
In the Netherlands February 9, 1948
10 Claims. (Cl. 219—10)



1. A method of joining two metallic workpieces by electric arc-welding, comprising the steps of: urging one of the said metallic workpieces towards abutting relationship with the other said metallic work-piece, placing a slag-

forming body between said metallic work-pieces with one portion thereof abutting said other metallic work-piece at a region closely adjacent the welding contact region thereof and another portion of said slag-forming body abutting a part fixed for movement with said urged metallic work-piece at a region spaced from the welding contact region thereof thus keeping said work-pieces spaced apart, passing an electric current through said metallic work-pieces of a sufficient strength to initiate a welding arc between said work-pieces; continuing said electric current and resulting welding arc between said metallic work-pieces until said slag-forming body begins to melt and deform to so permit approach of said urged metallic work-piece towards said other metallic work-piece and then finally, upon sufficient melting and deformation of said slag-forming body, permitting said welding contact region of said urged work-piece to contact said welding contact region of said other work-piece after a predetermined period of time subsequent to initiation of the welding arc.

2,643,320
HEATING ELEMENT
Arnold Pfenninger, Jr., Hamden, Conn., assignor to The Connecticut Hard Rubber Company, New Haven, Conn., a corporation of Connecticut
Application April 19, 1950, Serial No. 156,849
4 Claims. (Cl. 219—19)



3. An electrical heat unit consisting essentially of only glass cloth, resistance wire and macromolecular silicone structural material reinforced by glass fibers, the resistance wire being mounted on a thin card attached to the face of and suspended by at least one cushioning sheet of untreated glass fabric, the opposite face of the untreated cushioning sheet being secured to a sheathing having an outer surface of silicone rubber.

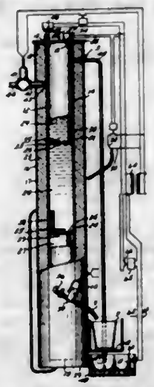
2,643,321
MANUALLY OPERATED SOLDER FEEDER FOR ELECTRIC SOLDERING IRONS
Norman M. Greene, Valley Stream, N. Y.
Application July 28, 1951, Serial No. 239,075
2 Claims. (Cl. 219—27)

1. In a soldering iron having a handle with an electrically heated soldering tip or iron proper, a manually operated solder feeder including a substantially flat base plate disposed beneath the forward portion of the handle and a portion of the intermediate portion of the soldering iron, an upwardly extending clamp fixed on the base plate and secured to the handle, a wire solder reel pivotally mounted upon the underside of the base plate to rotate about a vertical axis, a plate member fixed upon the forward portion of the base plate and formed forwardly into a tubular wire solder guide, a solder guide tube secured in the tubular portion of said plate member and extending forwardly toward the soldering tip, a further solder guide secured upon the rear portion of the base plate in the lower portion of the clamp for guiding solder wire from the reel across the base plate toward said tubular portion of said plate member, a feeding plate slidably mounted upon said base plate for limited forward and rearward movement thereon, a solder gripping jaw fixed on the feeding plate



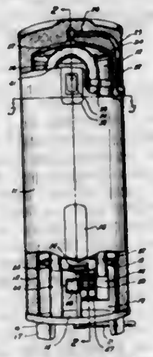
at one side of the path of movement of the solder wire directed toward said plate member, a pivotally mounted solder gripping jaw on said feeding plate at the other side of said path adapted to pivot about a vertical axis, a manually operated lever pivotally mounted on said base plate and extending beneath said feeding plate, and resilient means interconnecting the end of the lever remote from the manually gripped portion thereof and the feeding plate and simultaneously the pivotally mounted jaw so that operation of said lever effects closure of said pivoted jaw against the solder and the first mentioned jaw and forward feeding movement of said feeding plate.

2,643,322
LIQUID HEATER FOR HOT BEVERAGE VENDING MACHINES
Ermal J. Lime and Charles S. Hedges, Kansas City, Mo., assignors to Crelo Manufacturing Company, Inc., Kansas City, Mo., a corporation of Missouri
Application February 23, 1951, Serial No. 212,444
6 Claims. (Cl. 219—38)



5. A liquid heating apparatus comprising, an elongated vertical tank, a plurality of vertically spaced partitions in said tank intermediate the top and bottom thereof and forming upper, intermediate, and lower compartments, said partitions having apertures therein for restricted movement of liquid from one compartment to another, a liquid inlet connected with a source of cold liquid supply and communicating with the upper compartment for delivery of cold liquid thereto, valve means in said liquid inlet for controlling flow of liquid therethrough, a float actuated means responsive to liquid level in the upper compartment for controlling the operation of the liquid inlet valve to substantially maintain a predetermined liquid level in the uppermost compartment and substantially full intermediate and lower compartments, an electric immersion heater supported at the lower end of the lower compartment and extending upwardly therein for a substantial portion of the height of said lower compartment whereby any vapors from the hot liquid pass through the apertures in the partitions to upper compartments and are condensed partially heating the liquid in said upper compartments, temperature responsive means in the upper compartment controlling energization of the heating means, and a valved outlet communicating with the lower compartment below the upper end of the heating element for selective discharge of hot liquid from said lower compartment.

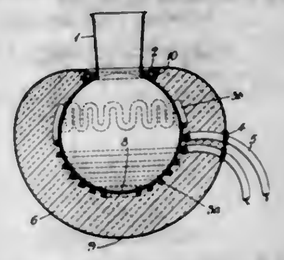
2,643,323
COMBINATION SPACE AND WATER HEATING UNIT
Clifford E. Carlson, Oshkosh, and Gordon Hatch, Milwaukee, Wis.
Application May 1, 1952, Serial No. 285,356
6 Claims. (Cl. 219—39)



6. A combination space and water heating unit comprising an upright water reservoir, electric heating means in said reservoir for heating the water therein, an upright air duct of an inverted U-shape arranged within said reservoir so that the base portion of said duct is adjacent the upper end of the reservoir and the leg portions of said duct terminate adjacent and to the outside of the lower end of said reservoir, and blower means arranged for moving air through said duct for heating of the air by the water in said reservoir.

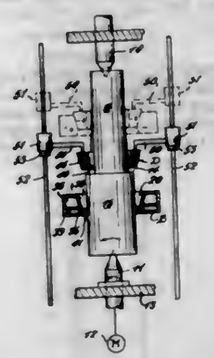
2,643,324
ELECTRIC HEATING DEVICE
Heinz Herbert Goldstaub, Snaresbrook, England
Application September 19, 1951, Serial No. 247,219
4 Claims. (Cl. 219—43)

1. An electrical heating device for a vessel having a relatively small discharge neck extending from an enlarged body portion; said heating device comprising a unitary flexible mantle made of knitted heat resisting and electrically insulating fibres and formed to define an enclosed space for accommodating the enlarged body portion of the vessel and extending to a relatively small portion of the latter, marginal portions of said mantle defining an opening through which the relatively small portion of



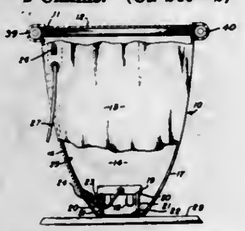
the vessel may extend, and electrical heating means carried by said mantle and disposed for good heat exchanging relationship with the body portion of a vessel in the mantle, said opening being normally smaller than the enlarged body portion of the vessel to be received in the mantle whereby the opening may be stretched to pass over the enlarged body portion and can grip the relatively small portion of the vessel.

2,643,325
PROGRESSIVE HIGH-FREQUENCY HEATING OF VARIABLE-DIMENSION SHAFTS
Alfred C. Body and John T. Sabol, Cleveland, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application October 6, 1950, Serial No. 188,857
10 Claims. (Cl. 219—47)



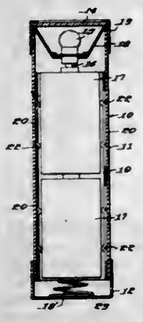
1. The method of progressively heating a variable-diameter shaft which comprises progressing along said shaft a high-frequency inductor having a fixed workpiece-receiving opening from a large-dimension portion thereof toward a smaller-dimension portion thereof, and at a predetermined point along said progressive movement, moving a concentrator into operative relationship with said inductor to increase the power input of the inductor to the shaft and continuing to progress the inductor and concentrator along said shaft.

2,643,326
ILLUMINATING DEVICE FOR GRAPHIC LAYOUT TABLES
Joseph F. Knapp, Naugatuck, Conn., assignor to Knapp Machine Corporation, Waterbury, Conn., a corporation of Connecticut
Original application December 20, 1948, Serial No. 66,371. Divided and this application November 3, 1949, Serial No. 125,304
2 Claims. (Cl. 240—2)



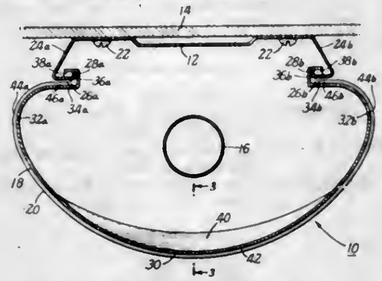
1. In a graphic layout table, a body comprising a relatively small flat rectangular base, a translucent rectangular top wall larger than said base, a pair of flat end walls extending upwardly from the ends of said base to the ends of said top wall, a pair of aligned elongated fluorescent lamps within said body and disposed lengthwise in parallel spaced relationship to said base and adjacent thereto, said fluorescent lamps being supported from said bottom wall by a flat rectangular opaque reflecting member disposed in parallel spaced relationship from said fluorescent lamps and adjacent thereto, and an opposed pair of relatively steep side walls having concave inner reflecting surfaces extending upwardly with increasing steepness from the sides of said base to said top wall, said lamps being parallel to said concave side walls, the lower surface of said shield serving to reflect light from said lamps downwardly upon said concave side walls, whereby the light from said lamps will impinge uniformly upon the top wall without bright spots.

2,643,327
VENTILATED INSULATING SPACING SHIELD FOR FLASHLIGHT DRY CELLS
Albert H. Macklenar, Toledo, Ohio
Application December 22, 1949, Serial No. 134,389
1 Claim. (Cl. 240—10.66)



A flashlight comprising a casing, a plurality of dry cells arranged in end to end relation in said casing, a light bulb electrically connected to said casing and dry cells, a shell arranged in surrounding relation with respect to said dry cells for preventing said dry cells from rattling and for insuring that the dry cells are maintained in alignment, said shell including a plurality of inwardly projecting indentations arranged in engagement with said dry cells, there being a plurality of spaced parallel slots arranged in said shell for the circulation therethrough of air, said indentations being arranged in groups with the indentations in each group arranged in alignment with each other, said shell having its longitudinal free ends spaced from each other to define a channel therebetween, said slots being arranged parallel to the longitudinal axis of said shell, and said indentations having a V-shape.

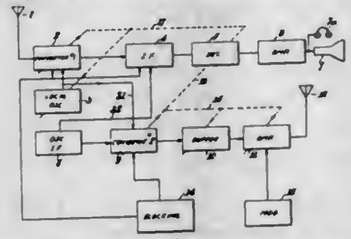
2,643,328
ELECTRIC LIGHT FIXTURE SHADE AND CHASSIS CONSTRUCTION
Arthur R. Elmendorf, Woodbridge, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn., a corporation of Delaware
Application May 18, 1950, Serial No. 162,704
4 Claims. (Cl. 240—51.11)



1. In a lighting fixture, the combination of a trough-shaped base member adapted to be secured to a ceiling or the like and having depending sides terminating in inwardly extending horizontally-disposed sections bordered by integral, substantially vertically-disposed flanges to form two longitudinal channels at the bottom of and inside said depending sides, a tubular light source suspended longitudinally below said base member, a plurality of light transmitting shade sections substantially trough-shaped in cross section adapted to be suspended from the channels in said base member, the longitudinal edges of said sections being substantially U-shaped in cross section to provide two horizontal portions joined by a vertical portion, the upper horizontal portions extending outwardly and being provided with a series of depending lugs spaced from said vertical portions and thinner than the height of said vertical portions to rest upon the bottom of said channels in said base member, and resilient means associated with said fixture and adapted to press said shade sections against said base member so that said lugs fit snugly in said channels and the assembly is held rigid against vibration.

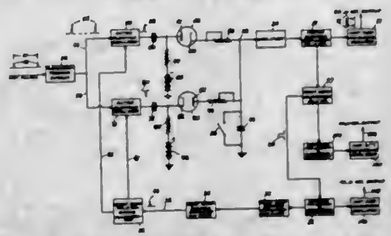
2,643,329
TRACKING SYSTEM BETWEEN RECEIVER AND TRANSMITTER
Martin Silver, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application May 14, 1945, Serial No. 593,599
2 Claims. (Cl. 250—13)

1. A system for causing interference with a transmitted signal by simultaneously transmitting on the frequency of said transmitted signal and receiving the said transmitted signal, comprising a receiving circuit of the superheterodyne type including a converter, an oscillator, an intermediate frequency amplifier, a detector, and an audio amplifier, and means coupled to said last-named amplifier by which its audio output may be observed; a locally associated transmitter circuit comprising an oscillator at a frequency in the range of said intermediate frequency, a converter, a buffer amplifier, and an output amplifier suitably coupled for transmission; connecting means for applying the output of said first named oscil-



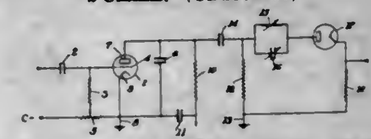
lator to said first named converter and to said second named converter, connecting means for applying the output of said second named oscillator to said intermediate frequency amplifier; a blocking voltage generator producing a positive and a negative output voltage and connecting means for applying one said voltage to said first named converter and to said intermediate frequency amplifier and the other said voltage to said second named converter; and coupled means for simultaneously varying the tuning of said first named converter, of said first oscillator, and of said second named converter.

2,643,330
PULSE INTERVAL TIME DIVISION SYSTEM
Paul W. Borgeson, Little Falls, N. J., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application September 12, 1950, Serial No. 184,422
4 Claims. (Cl. 250—27)



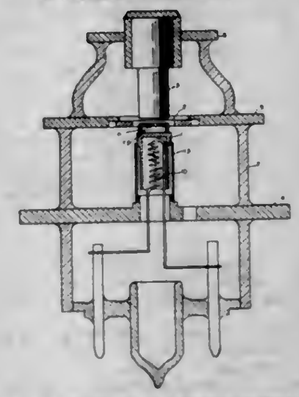
1. A system for dividing the interval between electrical input pulses of substantially constant interval comprising means for producing electrical output pulses at a rate determined by a control voltage, a capacitor in voltage control relation to said output pulse producing means, two unidirectional current means responsive to said input pulses for charging said capacitor, one of said current means for charging said capacitor positively and the other of said current means for charging said capacitor negatively with respect to a selected reference value, a gated blocking oscillator coupled to each of said current means and in pulse responsive relation to said input pulses, and means responsive to said output pulses for gating said blocking oscillators in a manner to vary the charge of said input pulses on said capacitor in accordance with the deviation from a selected ratio of the rate of said output pulses to said input pulses and thereby effect a return of said ratio to the selected value.

2,643,331
PULSE CONVERTING SYSTEM
Sidney Frankel, Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application October 2, 1944, Serial No. 556,741
2 Claims. (Cl. 250—27)



1. In combination: a thermionic discharge tube having a grounded cathode, a grid and a plate; a pair of resistances connected in adjustable relation to one another and in series between said grid and said cathode, an input circuit connected between said grid and ground, a condenser connected in parallel to said plate and said cathode, an output circuit for said tube including a resistance and a source of potential connected between said plate and ground, a second condenser having one terminal connected to said plate, a fourth resistance connected between the other terminal of said second named condenser and ground, a rectifier, a resistance and a condenser in parallel connected in series between the junction of said second named condenser and said fourth named resistance and said rectifier and an output circuit for said rectifier including a resistance connected between said rectifier and ground.

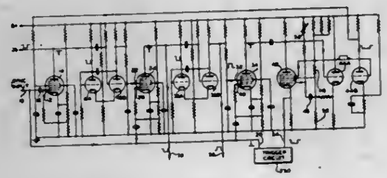
2,643,332
HIGH-FREQUENCY ELECTRON DISCHARGE TUBE SYSTEM
Gesinus Diemer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 25, 1950, Serial No. 151,956
In the Netherlands March 29, 1949
2 Claims. (Cl. 250—27)



1. An electron discharge tube system for electrical oscillations having a frequency of the order

of 1000 megacycles per second and higher comprising an electron discharge tube having an incandescible cathode assembly comprising a structure forming an internal cavity, the portion of the structure surrounding said cavity consisting of refractory metal, a supply of an alkaline-earth metal compound in said cavity, and a homogeneously porous sintered body of refractory metal forming the emissive part of the wall of said structure, said structure being tightly closed with the pores of said body forming the largest apertures connecting the cavity to the outside of the structure, a grid electrode assembly positioned adjacent to said cathode and spaced therefrom a distance smaller than 30 microns, and an anode in spaced relationship to said grid and cathode assemblies, said discharge tube having a given saturation current value; and means to apply to said cathode and anode a potential having a value at which a current flow greater than about 10% of the said saturation current value is produced in said tube.

2,643,333
DATA TRANSMISSION SYSTEM
Andrew B. Jacobsen, Somerville, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 29, 1945, Serial No. 631,746
7 Claims. (Cl. 250—27)



1. In a data transmission system in which the transmitter is pulse modulated by a starting pulse, a data pulse and a second data pulse, said data pulses being position modulated relative to said starting pulse, a receiver for said pulses comprising, a first pulse generating circuit responsive to said starting pulse for generating a first voltage square wave having a time duration long enough to overlap said first data pulse, a second pulse generating circuit responsive to time coincidence of said first voltage square wave and said first data pulse to generate a second voltage square wave having a time duration long enough to overlap said second data pulse, a third pulse generating circuit responsive to time coincidence of said second voltage square wave and said second data pulse to generate a third voltage square wave, and means responsive to said third voltage square wave for rendering said first pulse generating circuit unresponsive to input pulses.

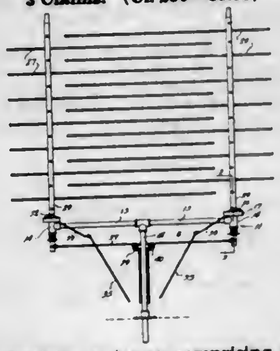
2,643,334
TURNSTILE ANTENNA
Nathan W. Aram, Park Ridge, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 23, 1948, Serial No. 56,177
12 Claims. (Cl. 250—33.53)

10. An unbalanced dipole radiating element comprising: a folded dipole arm; a simple dipole arm substantially collinear with and electrically connected to one leg of said folded dipole arm; and means, including a transmission line feeder connected to the other leg of said folded dipole



arm, for directly exciting said folded dipole arm only.

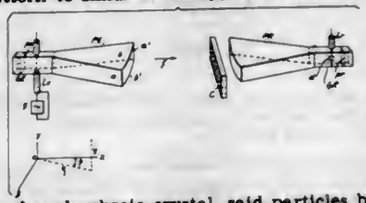
2,643,335
TELEVISION ANTENNA
Henry C. Andersen, Lancaster, Calif.
Application November 9, 1951, Serial No. 255,647
3 Claims. (Cl. 250—33.55)



1. A television antenna comprising a support having a horizontally extending arm, respective vertical sleeves at the opposite ends of said arm, respective vertical mast members rotatably and slidably mounted in said sleeves, a plurality of coplanar horizontal conductor rods secured to each mast member in vertically spaced relation, means electrically connecting the rods of each mast member, the conductor rods on one mast member being staggered relative to the conductor rods on the other mast member and said rods being arranged to intermesh when rotated into the same vertical plane, and means for rotating said mast members.

2,643,336
ARTIFICIAL CRYSTAL FOR POLARIZATION OF ELECTROMAGNETIC WAVES
Georges Valensi, Paris, France
Application July 21, 1947, Serial No. 762,448
In France January 29, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 29, 1962
7 Claims. (Cl. 250—33.63)

1. An artificial crystal exhibiting pleochroic properties for filtering out of a mixture of differently polarized electromagnetic waves of the same wave length, a wave having a particular state of polarization, comprising a plurality of macro-crystalline configurations each including, conductive particles spaced from one another in a pattern to simulate an appropriate configura-



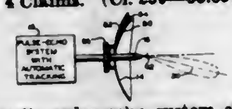
tion of a pleochroic crystal, said particles being spaced apart a distance small with respect to the wavelength of said electromagnetic waves, and having dimensions small with respect to said wave length, and a dielectric medium of low high frequency power factor for supporting said particles.

2,643,337
ELLIPTICALLY POLARIZED ANTENNA
James J. Nail, Basking Ridge, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 18, 1949, Serial No. 77,137
7 Claims. (Cl. 250—33.63)



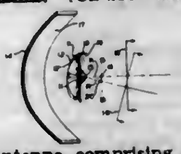
1. An antenna comprising a pair of electrically conductive, cylindrical hollow sections arranged in spaced, end-on coaxial relation, the adjacent ends of said sections terminating in parallel planes at an acute angle to the axes of said sections to define an elliptical slot, one of said sections being fastened to an inner conductor of a coaxial feed line and the other section being connected to the outer conductor of said feed line.

2,643,338
CONICAL SCAN ANTENNA
James J. Brady, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 18, 1945, Serial No. 617,139
4 Claims. (Cl. 250—33.65)



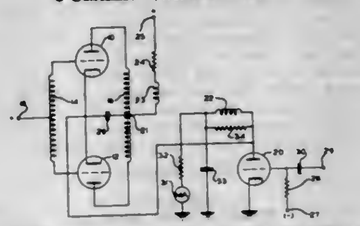
1. In a radio pulse-echo system an automatic target tracking antenna comprising, a radiator and a reflector, said reflector comprising a parabola and a half parabola disposed substantially between said parabola and said radiator, said half parabola being in contact with said parabola along the edge of said half parabola passing through the axis and being spaced therefrom by a continuously increasing amount to a point substantially at the midpoint of the other edge of said half parabola, the spacing between said parabola and said half parabola at said midpoint of said other side being substantially a quarter wave length at the frequency of operation of said antenna, and means for rotating said reflector and said radiator about the axis of said parabola to provide a radiation pattern having a single cross-over point.

2,643,339
REFLECTOR SCANNING ANTENNA
Lan Jen Chu, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 14, 1945, Serial No. 616,396
18 Claims. (Cl. 250—33.65)



1. A radio antenna comprising a bifocal paraboloid reflector having first and second focal points and means for generating a first beam having a wave front having first and second substantially circular curvatures, said first curvature appearing to emanate from a point outside of said means and said second curvature being centered on said means, said means being positioned near the front of said reflector inside said first focal point and at said second focal point so that the center of said first curvature of said wave front is substantially at said first focal point, and the center of said second curvature is substantially at said second focal point, whereby said first beam is reflected by said reflector as a second beam having a substantially plane wave front.

2,643,340
TRIGGERED PUSH-PULL OSCILLATOR
Richard B. Lawrance, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application April 1, 1946, Serial No. 658,594
5 Claims. (Cl. 250—36)



1. Electronic apparatus for producing sharply defined pulses of high frequency oscillation comprising, a push-pull oscillator circuit including first and second electron tubes each having at least a cathode, an anode, and a control grid, said control grids being symmetrically connected to a first electrically resonant circuit, said anodes being connected to a second electrically resonant circuit, a source of positive voltage connected to said control grids, a source of space current connected to said anodes, a common resistor in the grid-cathode circuits of said first and second electron tubes, the voltage developed across said resistor by the space current drawn through said first and second electron tubes maintaining said oscillator in a normally non-oscillating condi-

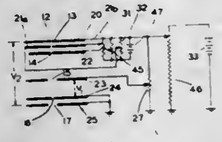
tion, a third electron tube having at least a cathode, an anode, and a control grid, said anode of said third electron tube being coupled directly to the cathodes of said first and second electron tubes, a source of negative voltage connected to said control grid of said third electron tube maintaining said third electron tube in a normally non-conducting condition, an input circuit adapted to apply positive voltage pulses to said control grid of said third electron tube, said input voltage pulses causing said third electron tube to conduct for sharply defined periods of time, said periodic conduction of said third electron tube lowering the voltage at said cathodes of said first and second electron tubes and causing said oscillator to oscillate during said periods of time.

2,643,341

MASS SPECTROMETER ION SOURCE

Wallace T. Leland, St. Paul, Minn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application March 3, 1948, Serial No. 12,828
5 Claims. (Cl. 250—41.9)



1. Apparatus for producing and focusing ions which comprises an ionization chamber, means for feeding vapors of a substance thereto, a filament, means for receiving electrons, said filament and said means being positioned near opposite sides of said chamber thereby causing electrons to pass thereacross for forming ions from said substance, a plurality of electrically isolated plates spaced from each other exteriorly of said chamber, a slot in a wall of said chamber, openings through said plates aligned with each other and with said slot, and voltage regulating means electrically connected with said wall and with said plates for establishing a fixed difference in potential between said wall and at least one plate adjacent thereto and also establishing differences in potential between said wall and others of said plates, said voltage regulating means being controllable for adjusting the potentials of the others of said plates to desired constant values while maintaining the potential of said one plate substantially fixed, whereby to provide a uniform potential gradient along said other plates.

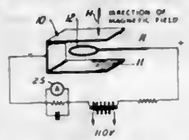
2,643,342

IONIZATION GAUGE

Kenneth M. Simpson, Santa Barbara, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application January 17, 1947, Serial No. 722,718
2 Claims. (Cl. 250—41.9)

1. In combination with a mass spectrometer adapted to transmit a beam of charged particles within a tank having a magnetic field passing therethrough; an ionization gauge within said tank displaced from the beam path, said gauge having a gaseous region therein communicating with the space in the tank and means for projecting charged particles through the gaseous region under the influence of said magnetic field, a shield disposed about said gaseous region to prevent stray charged particles from the beam



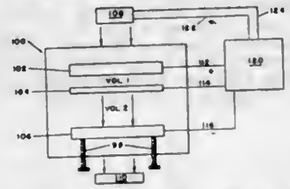
from entering said region, and means for measuring the degree of ionization produced in said region by said particles.

2,643,343

BALANCED DOUBLE IONIZATION CHAMBER X-RAY MONITOR

Leo James Rainwater, New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application May 5, 1950, Serial No. 160,324
5 Claims. (Cl. 250—83.6)



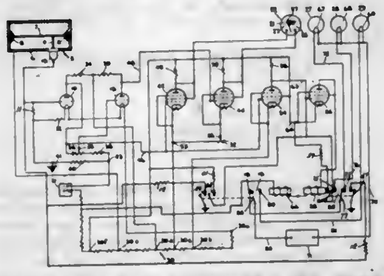
1. An X-ray intensity monitor which comprises in combination a container divided by an ion collector plate into a larger and a smaller ionization chamber, two conducting surfaces disposed in said container in confronting relation to the faces of said ion collector plate, a source of X-radiation spaced from the monitor in a direction substantially normal to the plates thereof thereby to direct said radiation through both the larger and smaller chambers consecutively, a source of voltage, means for impressing the voltage on said conducting surfaces and means for detecting a change in the charge on said ion collector plate.

2,643,344

SYSTEM FOR MEASURING RADIOACTIVITY

Ian H. McLaren, Dearborn, and Carl E. Alsterberg, Detroit, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware

Application January 10, 1950, Serial No. 138,769
15 Claims. (Cl. 250—83.6)



1. An apparatus for measuring the intensity of radioactivity, including, an ionization chamber

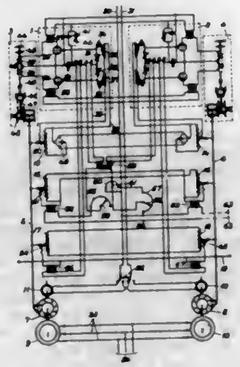
adapted to produce an electrical current proportional to the intensity of the radioactivity, a normally balanced detector circuit connected to the ionization chamber and operative to produce a differential of balance in proportion to the electrical current, means for indicating the differential of balance, the indicating means having scales each adapted to indicate a definite range of radioactivity, and means automatically operative at predetermined differentials of balance to provide visual indication of the relative intensity of the radioactivity.

2,643,345

MEANS FOR GOVERNING POWER STATIONS

Knut Almström, Asge Garde, Sven Eric Hedström, and Einar Brodersen, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden

Application January 5, 1951, Serial No. 204,644
In Sweden March 11, 1949
4 Claims. (Cl. 290—4)



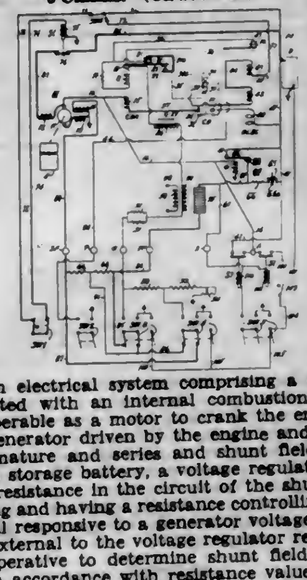
1. A power station governing system having at least two units, each comprising a prime mover and a generator, a regulator for each prime mover, means for actuating said regulator by electrical quantities, mechanical means responsive to the state of said regulator to control the flow of energy medium to the corresponding prime mover, each regulator being adapted to receive electrical quantities from two separate current systems common to said units, means associated with one of said current systems to derive in it the sum of voltages proportional to the position of each of said mechanical means, means for delivering the difference between an adjustable voltage in said current system and said sum of voltages as an electrical quantity to the control system of each of said regulators, means associated with the other one of said current systems to derive in it voltages proportional to the position of each of said mechanical means, means for delivering as an electrical quantity to each of said regulators a voltage responsive to the difference between the voltage proportional to the position of the mechanical means of the corresponding unit and the mean value of the voltages proportional to the position of the mechanical means of the said units, and a common alternating current source supplying said regulators and said current systems.

2,643,346

STARTING AND GENERATING SYSTEM

William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 2, 1951, Serial No. 249,369
6 Claims. (Cl. 290—31)



1. An electrical system comprising a dynamo connected with an internal combustion engine and operable as a motor to crank the engine or as a generator driven by the engine and having an armature and series and shunt field windings, a storage battery, a voltage regulator having a resistance in the circuit of the shunt field winding and having a resistance controlling magnet coil responsive to a generator voltage, resistance external to the voltage regulator resistance and operative to determine shunt field excitation in accordance with resistance value, resistance external to the magnet coil of the voltage regulator and operative to determine the extent of magnet coil excitation in accordance with resistance value and having normally that value required for a voltage setting of the regulator required for battery charging, a relay having a magnet coil connected with the dynamo armature and having contacts which are closed when the magnet coil receives battery current during engine starting, said relay contacts making a connection for connecting the battery with the shunt field winding, a plurality of manually operable switches having first and second positions, a circuit established by one of the switches in its second position for causing the connection of the battery with the dynamo armature and series field winding for engine cranking purposes, and a circuit connection established by other of the switches in first position for completing, in conjunction with the closed relay contacts, a circuit between the battery and the shunt field winding and one which determines that value of the resistance external to the voltage regulator resistance in the shunt field circuit which is required for shunt field excitation during engine cranking.

2,643,347

STARTER CONTROL SYSTEM

Lawrence C. Dermond and Ellsworth A. Kehoe, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 24, 1951, Serial No. 222,674
20 Claims. (Cl. 290—38)

1. In a starting apparatus for internal combustion engines having a starting motor, a cur-

tion, a third electron tube having at least a cathode, an anode, and a control grid, said anode of said third electron tube being coupled directly to the cathodes of said first and second electron tubes, a source of negative voltage connected to said control grid of said third electron tube maintaining said third electron tube in a normally non-conducting condition, an input circuit adapted to apply positive voltage pulses to said control grid of said third electron tube, said input voltage pulses causing said third electron tube to conduct for sharply defined periods of time, said periodic conduction of said third electron tube lowering the voltage at said cathodes of said first and second electron tubes and causing said oscillator to oscillate during said periods of time.

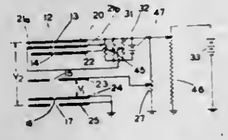
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5 Claims. (Cl. 250—41.9)



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2,643,342

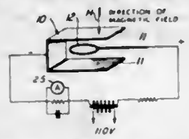
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from entering said region, and means for measuring the degree of ionization produced in said region by said particles.

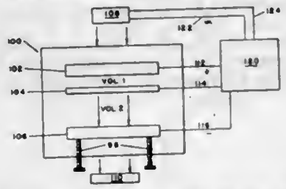
2,643,343

BALANCED DOUBLE IONIZATION CHAMBER X-RAY MONITOR

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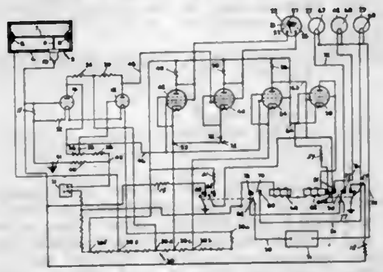
2,643,344

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1. An apparatus for measuring the intensity of radioactivity, including, an ionization chamber

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2,643,345

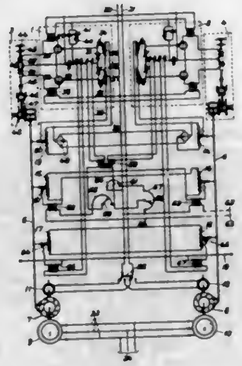
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Knut Almström, Aage Garde, Sven Eric Hedström, and Einar Brodersen, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden

Application January 5, 1951, Serial No. 204,644

In Sweden March 11, 1949

4 Claims. (Cl. 290—4)



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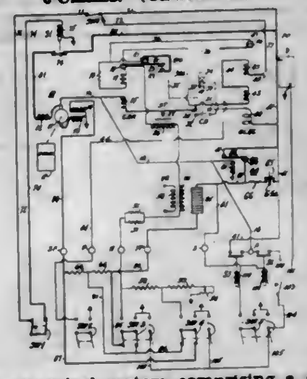
2,643,346

STARTING AND GENERATING SYSTEM

William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 2, 1951, Serial No. 249,869

6 Claims. (Cl. 290—31)



1. An electrical system comprising a dynamo connected with an internal combustion engine and operable as a motor to crank the engine or as a generator driven by the engine and having an armature and series and shunt field windings, a storage battery, a voltage regulator having a resistance in the circuit of the shunt field winding and having a resistance controlling magnet coil responsive to a generator voltage, resistance external to the voltage regulator resistance and operative to determine shunt field excitation in accordance with resistance value, resistance external to the magnet coil of the voltage regulator and operative to determine the extent of magnet coil excitation in accordance with resistance value and having normally that value required for a voltage setting of the regulator required for battery charging, a relay having a magnet coil connected with the dynamo armature and having contacts which are closed when the magnet coil receives battery current during engine starting, said relay contacts making a connection for connecting the battery with the shunt field winding, a plurality of manually operable switches having first and second positions, a circuit established by one of the switches in its second position for causing the connection of the battery with the dynamo armature and series field winding for engine cranking purposes, and a circuit connection established by other of the switches in first position for completing, in conjunction with the closed relay contacts, a circuit between the battery and the shunt field winding and one which determines that value of the resistance external to the voltage regulator resistance in the shunt field circuit which is required for shunt field excitation during engine cranking.

2,643,347

STARTER CONTROL SYSTEM

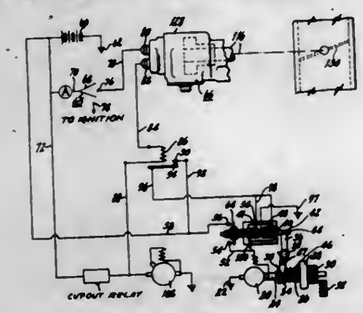
Lawrence C. Dermond and Ellsworth A. Kehoe, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 24, 1951, Serial No. 222,674

20 Claims. (Cl. 290—38)

1. In a starting apparatus for internal combustion engines having a starting motor, a cur-

rent source, a circuit for connecting said motor with the current source, a control switch for controlling the opening and closing of said circuit, a manually operable means for closing said switch to cause the starting motor to become operative, a member movable to a position to prevent the closing of said switch by actuation of said manually operable means when the engine is operating under its own power, means



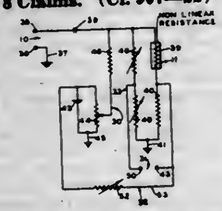
for moving said member to a position where it is ineffective when the engine is inoperative so that the control switch can be closed and means whereby the engine is effective when it becomes self-operative to move said last named means to a position to permit movement of said member to a position where it prevents closing of the control switch, so that closing of the control switch is prevented when the engine is operating under its own power.

2,643,348

APPARATUS FOR PRODUCING A POWER FUNCTION OF AN INPUT VOLTAGE

Deslonde E. de Boisblanc and Ross S. Marsden, Jr., Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application September 29, 1950, Serial No. 187,614
8 Claims. (Cl. 307—22)



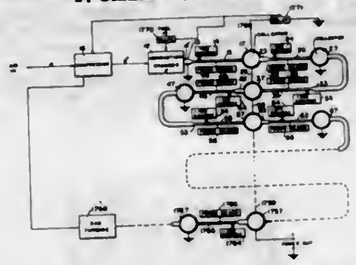
1. In a circuit for producing an output which is a power function of an alternating signal input, in combination, a non-linear resistance having a characteristic such that current passing therethrough is a power function of the applied voltage, so that a portion of the characteristic is substantially coincident with a portion of a curve representing a selected power function, said curve being shifted laterally with respect to the coordinate origin, means for supplying an alternating input signal voltage to said resistance, means for supplying a direct voltage bias to said resistance of such magnitude that the sum of the direct and alternating voltages lies at all times within said portion of the characteristic, whereby the resulting current through said resistance is a power function of said input voltage and the distance of lateral shifting of said curve with respect to the coordinate origin, said function, upon expansion, containing a term of the selected power of said function, and other terms representing lower powers, means for producing an output voltage representative of the variation in current through said resistance, and means for supplying bias voltages to said output voltage for cancelling out from said output voltage the voltages representative of said terms of lower powers than the desired term.

2,643,349

ELECTROSTATIC VOLTAGE POWER GENERATOR

William P. Smith, Lawrence, Kans.

Application September 14, 1951, Serial No. 246,643
17 Claims. (Cl. 310—5)



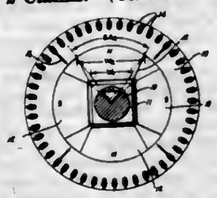
1. An electrostatic direct current generating system comprising a hollow conduit made of an insulating material, an ion generating source at one end of said conduit for placing ions of a given polarity in said conduit, a charge collecting electrode at the other end of said conduit for collecting the ions impinging thereon, means extending entirely along said conduit between said ion generating source and said charge collecting electrode for opposing the repulsion effect between ions of like polarity to focus said ions in the center of said conduit along the length thereof, means connected to said one end of said conduit for generating a high velocity stream of gas within said conduit moving towards said collecting electrode to carry said ions to said collector electrode whereby a high direct current voltage is built up on said collector electrode by the charge accumulated thereon.

2,643,350

DYNAMOELECTRIC MACHINE MAGNETIC CORE MEMBER

Frank W. Merrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application June 28, 1952, Serial No. 296,162
2 Claims. (Cl. 310—156)



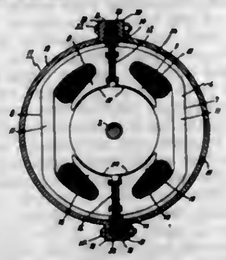
1. A dynamoelectric machine rotor comprising a shaft having a central portion provided with flat faces around the periphery thereof, a plurality of permanent magnet material blocks secured one on each of said flat faces, a laminated sleeve of magnetic material surrounding the periphery of the assembly of said blocks on said shaft, the width of each of said blocks in axial cross section being substantially greater adjacent said sleeve than the width thereof adjacent said shaft portion, and the length of each of said blocks in axial elevation being substantially greater adjacent said shaft portion than the length thereof adjacent said sleeve.

2,643,351

DYNAMOELECTRIC MACHINE

Karl M. Feiertag, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application June 5, 1952, Serial No. 291,951
6 Claims. (Cl. 310—258)



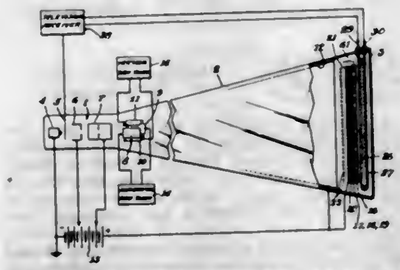
1. In a dynamoelectric machine, a stator core member having an outwardly extending projection formed on its outer periphery, resilient means respectively arranged on the sides of said projection, a shell member longitudinally divided into at least two symmetrical sections, each of said sections having an outwardly extending flange portion formed along a longitudinal edge thereof, said stator core member being arranged within said shell member with said projection and said resilient means being positioned between said flanges, and means arranged to clamp said shell member sections together whereby said flanges tightly engage said resilient means and said core member projection thereby resiliently to support said stator core member.

2,643,352

COLOR KINESCOPE

Louis W. Parker, Little Neck, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 5, 1948, Serial No. 31,327
6 Claims. (Cl. 313—77)



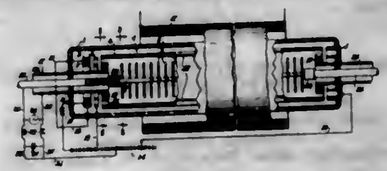
1. Apparatus for producing color images, comprising an image reproducing screen having its area divided into sets of different color responsive strips, means to develop a scanning cathode-ray beam, means to deflect said beam in a predetermined scanning pattern over said screen independently of color variations, means between said deflecting means and said screen for focussing said beam on one strip at a time and other means adjacent said screen to cause said beam to execute subsidiary deflections along each scanning pattern trace and in accordance with received color control signals, said screen being located adjacent one end of a cathode-ray tube envelope, and said means to develop the cathode-ray beam including an electron gun located adjacent the other end of said envelope, and said other means including a magnetic field producing coil mounted within said envelope adjacent said screen on the side remote from said gun.

2,643,353

TRAVELING WAVE TUBE

Gordon Chipman Dewey, New York, N. Y., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application November 4, 1948, Serial No. 58,293
12 Claims. (Cl. 315—3)



1. A travelling wave amplifier comprising an electron gun and a collector electrode defining an electon beam path therebetween, a wave guide comprising a cylindrical wall conductor coaxial with and surrounding said path for propagating an electromagnetic wave along said beam path in the direction from said gun to said collector electrode, an inner conductor positioned axially within said wall, conducting baffles positioned uniformly on at least one of said conductors and arranged within the space defined by the conductors for causing the wave to propagate more slowly than the velocity of light and substantially with the velocity of electrons in said beam, said cylindrical wall conductor containing a plurality of longitudinal slots for the suppression of angle dependent modes, said slots being cut radially through said wall.

2,643,354

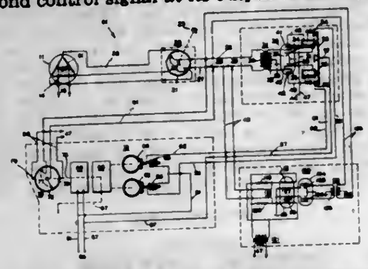
AUTOMATIC PILOT FOR MOBILE CRAFT

Alan M. MacCallum, Plainfield, and Charles Russell, Englewood Cliffs, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application May 19, 1948, Serial No. 28,028
9 Claims. (Cl. 318—28)

6. A steering system for mobile craft having a movable control surface thereon, comprising a motor adapted for operating said surface, attitude change responsive means for developing a first signal when the craft departs from a prescribed position, a second signal developing device having a fixed part and a displaceable part, said device having an input connected to said attitude change responsive means and an output at which a control signal is developed corresponding to said first signal, a first electronic

device having an input connected with the output of said signal developing device for receiving said control signal and an output connected for operating said motor, manually operable means for moving the displaceable part of said second signal developing device for producing a second control signal at its output to modify motor operation, and a second electronic device for developing a damping signal for also controlling operation of said motor, said second electronic device having an input connected to receive at least one of said control signals and an output connected with the input of said first electronic device.

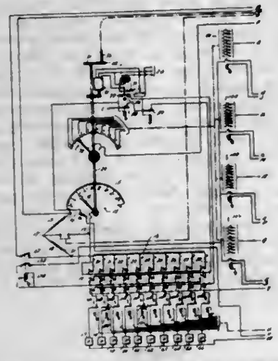


2,643,355

COMPUTER FOR CONVERTING ELECTRICAL CODE INTO SHAFT ROTATION

Ludlow B. Hallman, Jr., Dayton, Ohio

Application June 15, 1951, Serial No. 231,885
6 Claims. (Cl. 318—29)
(Granted under Title 35, U. S. Code (1952), sec. 266)



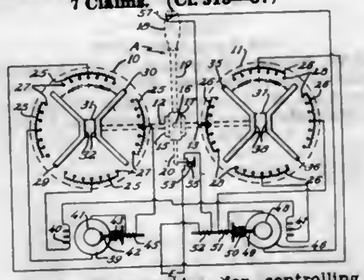
1. A computer for converting a coded electrical signal into a specified total number of revolutions of a shaft as measured from a start or zero revolution position thereof, said signal having a plurality of successively occurring parts each corresponding to one place of the decimal number representing the maximum total number of shaft revolutions of which the computer is capable, said computer comprising a shaft, a reversible motor coupled to said shaft for rotating it in either direction, a Wheatstone bridge comprising two branch circuits connected in parallel each consisting of a fixed resistance arm and an adjustable resistance arm connected in series, each of said adjustable arms being divided by ten taps into nine equal parts, means for applying an energizing voltage to said bridge across said parallel branch circuits, an output circuit for said bridge connected to points between said fixed and adjustable resistance arms, a control circuit connected to said motor, said control circuit being responsive to output voltage from said bridge to energize and control the direction of rotation of said motor, a plurality of reduction gear boxes equal in number to the number of places in said decimal number and each corresponding to one of said places, an equal number of bridge coupling means, each of said gear boxes having its driven side coupled to said shaft and its driving side selectively coupled through a corresponding bridge coupling means to the adjusting mechanism of one of the adjustable arms of said bridge, the ratio of the gear box corresponding to the lowest ordered place of said decimal number being such that nine revolutions of said shaft are required to adjust said one adjustable arm from zero to maximum resistance, the ratios of the remaining gear boxes being equal to a multiple of ten times the ratio of said lowest ordered gear box, an equal number of gear box decoders each corresponding to one of said places in said decimal number, means responsive to an output signal from any of said gear box decoders to couple the driving side of the corresponding gear box through the corresponding bridge coupling means to said one adjustable bridge arm, ten digit decoders each corresponding to one of the taps on the other of said adjustable bridge arms, means responsive to an output signal from any of said digit decoders to connect the corresponding tap of said other bridge arm to said bridge circuit and to connect the output circuit of said bridge to said control circuit for energizing and controlling the direction of rotation of said motor, for the purpose of driving the adjusting mechanism of said one adjustable arm through the appropriate gear box and bridge coupling means to balance said bridge, and means for applying said coded electrical signal to the input circuits of said gear box decoders and digit decoders in parallel.

2,643,356

UNICONTROLLER SYSTEM

Robert P. Fox, Duluth, Minn., assignor to Clyde Iron Works, Inc., Duluth, Minn., a corporation of Minnesota

Application August 20, 1951, Serial No. 242,670
7 Claims. (Cl. 318—57)



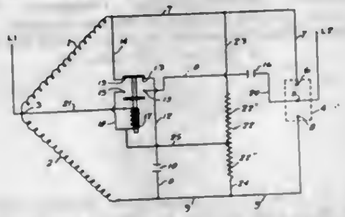
1. A control apparatus for controlling the movement of, and including, master controllers, said master controllers having actuating shafts which may be rotated in either direction from a central position, means actuated by rotation of the shafts in one direction for actuating said controllers to cause rotation of hoist motors in one direction, means actuated by rotation of said shafts in the opposite direction for actuating said controllers to rotate the hoist motors in the opposite direction, and means actuated by movement of said shafts to center position for cutting off the current to the hoist motors and applying brakes thereto, means connecting the shafts of said controllers for operation in unison, a handle connected to said shaft connecting means to rotate therewith, said handle being pivotal with said shafts about the axis thereof and also pivotal about an axis intersecting the shaft axis at right angles.

2,643,357

INSTANTLY REVERSIBLE MOTOR

Loris D. Clark, Dayton, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio

Application December 28, 1950, Serial No. 203,173
8 Claims. (Cl. 318—207)



1. In a reversible motor of the capacitor type having a pair of motor windings, a power line receiving said windings in parallel relation to one another, a single power double throw switch in said power line selectively connecting either of said windings directly across said line, a starting circuit including a normally closed switch connected between the ends of said windings and placing one winding in series relationship therewith when the other winding is directly connected across the line, a control circuit for said starting circuit including an electrically energized switch actuator, said control circuit comprising a simple bridge circuit including the two motor windings and a pair of resistors as the four arms thereof, the switch actuator being connected therein in such manner as to be responsive to the effective voltage across said bridge circuit, a condenser intermediate a power line and the center tap of said resistors connected in parallel with first one and then the other of said resistors depending upon the direction of rotation of the motor, and a normally open switch in said condenser circuit controlled by energization of the switch actuator, the construction and arrangement being such that the switch actuator is energized and deenergized by a change of potential within the bridge circuit responsive to fluctuations in motor speed or a change in phase relation of the two motor windings.

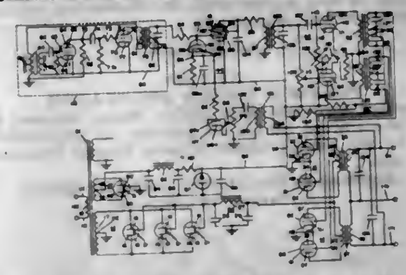
2,643,358

ELECTRIC TRANSLATING APPARATUS

Joseph Jackson Murray, Jr., Garland, Tex.

Application August 23, 1951, Serial No. 243,310
15 Claims. (Cl. 321—5)

1. An apparatus for transmitting energy from a direct current system to a polyphase alternating current system comprising: a pair of single phase inverters connected in parallel between said systems; each of said inverters comprising a pair of electric discharge means provided with control grids and cathodes, and a grid transformer provided with a secondary winding having outer terminals connected to the control grids of the pair of electric discharge means and having its electrical midpoint connected to the cathodes of the pair of electric discharge means, said grid transformer having a primary winding connected across a source of alternating current of a predetermined frequency; phase shifting means connected between said source of alternating current and said primary windings of said grid transformers for maintaining the alternating current



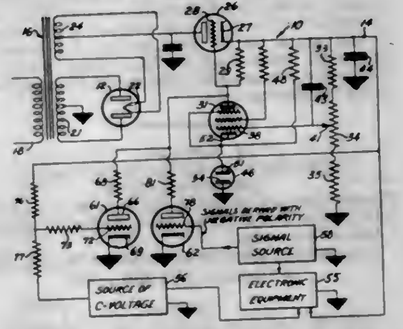
in the primary windings differing in phase a predetermined degree and means connected between said source and said phase shifting means operatively associated with said polyphase alternating current system for varying the current in said primary windings in accordance with the voltage of said polyphase system is maintained substantially constant.

2,643,359

PROTECTIVE CIRCUITS

Eugene R. Shenk, Brooklyn, and Anthony Liguori, New York, N. Y., assignors to Radio Corporation of America, a corporation of Delaware

Application June 30, 1948, Serial No. 36,193
2 Claims. (Cl. 323—20)



1. In a protective system for electronic equipment, a voltage supply source for said electronic equipment, said voltage supply source including a series connected control tube, a biasing resistor in the control circuit for said tube, a regulator tube in series with said biasing resistor adapted to increase the bias of said control tube in response to increased output of said voltage supply source and to decrease such bias in response to decreased output, whereby to maintain such voltage output substantially constant, a protective tube for said electronic equipment, said protective tube also having its space discharge circuit connected in series with the biasing resistor for said control tube, said protective tube having a control electrode, a signal source for feeding signals to said electronic equipment, means

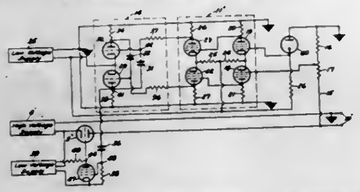
responsive to signals generated by said signal source for maintaining said protective tube in a substantially non-conductive condition during generation of signals by said signal source, said protective tube passing current when said signal source ceases to generate signals, said protective tube current traversing the biasing resistor for said control tube to decrease conductivity of said control tube and thereby to protect said electronic equipment.

2,643,360

VOLTAGE SUPPLY REGULATOR

Edward Fairstein, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application May 31, 1951, Serial No. 229,221
9 Claims. (Cl. 323—22)



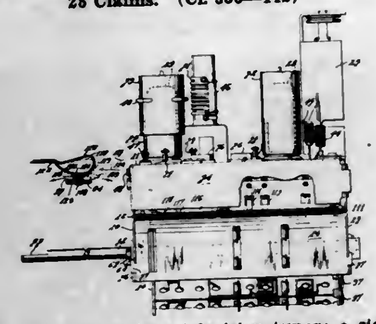
8. A system for regulating a D. C. voltage supply comprising a source of D. C. potential, a supply line fed by the source, a series regulating tube coupled into a conductor of the line, a voltage divider bridged across the line beyond the regulating tube, and a circuit for coupling an error signal from the voltage divider to the regulating tube, said circuit including a D. C. amplifier fed by the voltage divider, a pulse width modulator fed by the amplifier for converting changes in error signal to pulse width modulations, and a demodulator fed by the modulator and responsive to the pulse width modulations for producing signals of magnitude corresponding to the ratio of positive to negative pulse width for application to the regulating tube.

2,643,361

ELECTRICAL SWITCH CONTACT ARRANGEMENT

Donald Mackey, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 29, 1949, Serial No. 101,966
28 Claims. (Cl. 336—142)



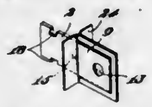
11. In a turret type television tuner: a signal transfer network having a relatively fixed circuit section including fixed contacts, and a relatively movable circuit section; means holding the relatively movable section on the turret; a plurality of separate sets of signal-selecting inductors in said movable circuit section; contacts on each inductor having parallel conductive paths from the point of engagement to the inductor, said contacts for interchangeably connecting the sets with the fixed circuit section to provide selectable transfer of the desired signals; and holding structure connected for yieldably holding the movable circuit section in the individual circuit-selecting position.

2,643,362

DEVICE FOR INSULATING A JACK

Ernest G. Johansson, Belmont, Mass., assignor to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts

Application December 11, 1948, Serial No. 64,733
3 Claims. (Cl. 339—36)



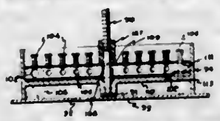
1. In the art of detachable electric meters of the type comprising a meter case carrying a contact blade and a meter terminal base carrying a clip receptacle having jaws adapted to receive the blade and said blade having retaining means adjacent the case and opposed to the jaws of the receptacle, a detachable device for insulating the blade from the receptacle while the blade is inserted therein comprising a detachable flat, two sided sheath of flexible, dielectric material, said sheath having its sides connected and having a closed end and an open end, the closed end and sides being externally substantially unobstructed so as to allow the blade when enclosed by the sheath to be slidably received in said jaws and retained therein, the sides at the open end of the sheath being extended beyond the body of the sheath and having their edges unconnected so that the extensions are freely foldable outwardly to assist in guiding the blade into the sheath and to insulate the retaining means from the receptacle as well as provide means for pulling the sheath from the blade or jaws.

2,643,363

PANEL BOARD NEUTRAL BAR

William Robertson and Louis W. Higgins, Detroit, Mich., assignors to BullDog Electric Products Company, Detroit, Mich., a corporation of West Virginia

Original application August 6, 1948, Serial No. 42,974. Divided and this application April 27, 1949, Serial No. 89,902
1 Claim. (Cl. 339—136)



In a panelboard mounted within a box, a housing within said box and of insulating material, a neutral bar disposed within said housing and insulated thereby from said box, a stud extending from the rear wall of said box and passing through an opening in said housing and said neutral bar, the opening in said neutral bar being of a diameter greater than that of said stud, said stud having length sufficient both to pass through said neutral bar and said housing and also to pass through and thus secure a mounting plate for individual panel units, a shouldered insulating nut fitting over said stud, the depending reduced portion of such nut extending into the opening of said housing between the inside diameter of said opening and the outside diameter of said stud and downwardly below the inside floor of said housing so as to seal off and insulate said neutral bar from said stud, the shoulder of said insulating nut securing said neutral bar within said housing and also securing said neutral bar and said housing in like manner rigidly against the rear wall of said box.

2,643,364

INTERLOCKING SHOCKPROOF ELECTRICAL PLUG

Benjamin F. Nausler, San Diego, Calif.

Application April 2, 1949, Serial No. 85,075
1 Claim. (Cl. 339—189)



In a shockproof interlocking electrical plug assembly a female plug frame and a male plug frame having a common axis, said female plug frame having slot openings of similar character and similarly spaced on opposite sides of said axis, said female plug frame having ledges at the ends of said slot openings, said female plug frame having an external screw-threaded conductor sleeve and a center terminal, oppositely disposed electrical contacts terminating on the inner surfaces of said ledges and individually connected with said sleeve and said terminal, said male plug frame having a pair of male contacts spaced on opposite sides of said axis and extending through said slot openings, oppositely disposed springs mounted within said female plug frame in opposing relation to said ledges and engaging said male contacts so as to urge said male contacts along with the male plug frame to rotate in one direction about said axis relative to said female plug frame, said male contacts each having a projecting portion, said portions being on opposed sides of the male contacts and the direction of their projection corresponding generally with said one direction, said portions engaging said ledges and first mentioned contacts when the male plug is rotated by the springs through a small angle of rotation, the first mentioned contacts being disposed on said ledges at points slightly removed from alignment with said slot openings in the direction of said rotation, whereby the plug is made shockproof as well as interlocking.

2,643,365

TERMINAL PIN BLOCK

Morris Rose, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware

Application December 28, 1949, Serial No. 135,400
2 Claims. (Cl. 339—198)

1. A multi-level stacked terminal-block assembly comprising a plurality of layers of terminal members, each layer comprising a row of uniformly spaced blade-like terminal members, each disposed on edge with its length extending across the row, each terminal member in any layer being aligned with a terminal member in each other layer, said assembly further comprising similar overlappingly aligned insulating support strips, separate ones of said strips underlying said rows, respectively, and another of said strips overlying the topmost row, whereby the terminals of any row are between two adjacent strips and are in edge contact with each, clamping means exerting an inward clamping force on the uppermost and lowermost strips to hold the assembly firmly together, each said strip containing a separate transverse cross row of three uniformly



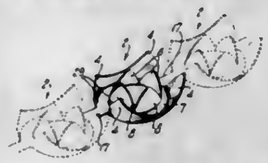
spaced perforations in alignment with each adjacent terminal member in a row, all terminal members being similarly disposed and each having a central edgewise extension on one edge entering the central one of the three associated perforations in one adjacent support strip and having two outer edgewise extensions on the opposite edge entering the outer openings in the other adjacent support strip, whereby with the support-strip thickness in excess of the length of the edgewise extensions, the terminals are maintained in insulated relationship to each other and are held firmly in assembled position.

2,643,366

TERMINAL OF THE GROMMET TYPE

Quentin Berg, New Cumberland, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa.

Application February 12, 1949, Serial No. 76,070
4 Claims. (Cl. 339—276)



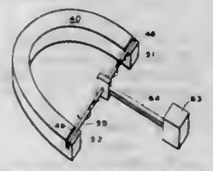
1. An electrical connector which includes an annular base, four ear portions extending upward from each of the inner and the outer peripheries of said annular base, the said ear portions extending from the outer periphery being generally triangularly shaped and defined at their tips by substantially right angles.

2,643,367

MAGNETOSTRICTION SEISMOMETER

Charles G. Cruzan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 5, 1948, Serial No. 599
6 Claims. (Cl. 340—17)



1. A magnetostriction seismometer comprising, in combination, a seismometer case including a

support, a horse shoe type permanent magnet pivotally mounted on said support, adjusting screw carried by said support to effect limited movement of said permanent magnet about said pivot, the ends of said magnet having aligned grooves formed therein, a rod of magnetostrictive material of uniform diameter throughout its length, said rod having bent end portions lying in different lateral planes whereby an initial torsional strain is applied to said rod when it is inserted into the aligned grooves in said magnet, a dual section pickup coil wound on said rod, the sections of said coil being mounted in the field established by said permanent magnet, and the magnetic lines of force constituting said field traversing said coils in a generally longitudinal direction referred to said rod, the sections of said coil being connected in series opposing relationship, and an inertia body mechanically connected to said rod between the sections of said coil whereby movement of said case relative to said inertia body resulting from earth tremors causes a twisting movement of said rod thereby distorting the magnetic lines of force and causing them to cut the sections of said pickup coil, the resulting induced potential in the coil sections being additive due to said series opposing connection.

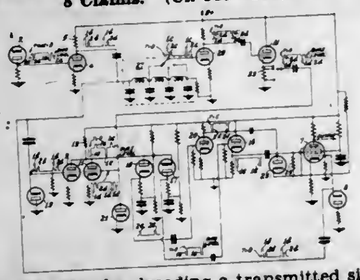
2,643,368

PULSE SIGNAL DECODING SYSTEM

Richard E. Baker, Woodbury Heights, and Frank D. Covely, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application February 2, 1951, Serial No. 209,093

8 Claims. (Cl. 340—164)



1. A system for decoding a transmitted signal, said transmitted signal comprising a reference pulse and a pulse coded in time and amplitude with respect to said reference pulse, including a circuit for delaying and controlling the amplitude of said reference pulse, means for mixing said delayed and amplitude controlled reference pulse and said coded pulse, means for obtaining a control signal from said mixing means, gating means, and means for applying said control signal and said coded signal to said gating means to obtain a usable output signal.

2,643,369

MODULATED PULSE REMOTE CONTROL

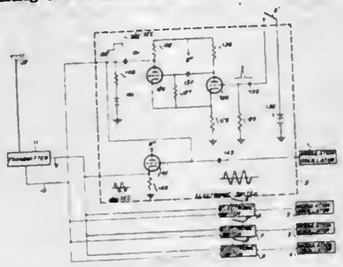
Theodore M. Manley, Xenia, and Robert P. Cherpeski, Dayton, Ohio

Application September 28, 1945, Serial No. 619,276

8 Claims. (Cl. 340—171)

(Granted under Title 35, U. S. Code (1952), sec. 266)

7. In a remote control system, a transmitter including: means for generating a radio carrier wave; at least one source of modulation waves; a multivibrator coupled between said source of modulation waves and said transmitter means for pulsing the output of said source of modulat-



ing waves as well as said generating means; and means coupled to and triggering said multivibrator.

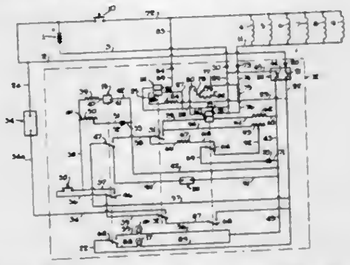
2,643,370

ELECTRIC CIRCUIT CHECKING EQUIPMENT

William J. Lawrence, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application March 26, 1951, Serial No. 217,616

8 Claims. (Cl. 340—213)



1. For use in checking equipment used to check the integrity and lack of integrity of an electrical circuit, the combination of a first means operatively responsive to the existence of integrity or lack of integrity of said circuit while said circuit is deenergized, a second means operatively responsive to the existence of integrity or lack of integrity of said circuit while said circuit is energized, means responsive to energization and deenergization of said circuit to selectively render either said second means or said first means effective, respectively, means operative to cause said second means when effective to be responsive to the lack of integrity of said circuit only when said lack of integrity endures longer than a certain uniform interval of time, and signal means common to both said first means and said second means and controlled alternatively thereby, depending on whether the said circuit is deenergized or energized, for indicating the existence of integrity or lack of integrity of said circuit.

2,643,371

SIGNAL INDICATOR FOR FISHING LINES

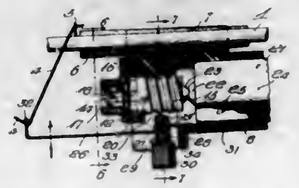
George Franklin Sleeger, York, Pa.

Application August 12, 1948, Serial No. 43,863

3 Claims. (Cl. 340—261)

1. A visual signal comprising a casing substantially conforming in contour with the contour of

a dry cell battery and attachable to a support, a resilient wire member having a hook on one end and a flattened portion on the other end, a looped portion intermediate said ends forming a screw-threaded guide, an adjusting screw engaged in the said screw-threaded guide, a dry cell battery removably mounted in said casing and having an exposed external electrode adapted to form wedging connection with the flattened end of said resilient wire member for clamping said resilient wire member between the interior wall of said casing and said dry cell battery in a position normally biased away from said support, an incandescent lamp having one terminal terminating in a sleeve member and the other terminal terminating in a contact member and mounted in the end of said casing said lamp being visible through the end of said casing with one contact member of said lamp establishing continuous contact with one electrode of said dry cell battery, said casing being apertured on one wall thereof immediately adjacent the sleeve member of said lamp for the passage of said adjusting screw therethrough for establishing make and break connection with the sleeve member of said lamp when the hook end of said resilient wire member is displaced toward said support by a pull and/or a slackening of pull on said resilient wire member.



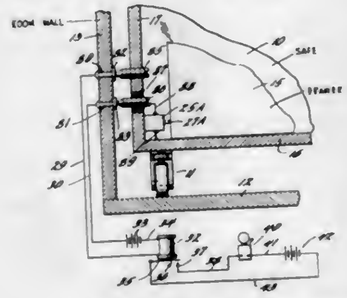
2,643,372

BURGLAR ALARM SYSTEM

Francis C. W. Steiter, New York, N. Y.

Original application November 13, 1947, Serial No. 785,716. Divided and this application February 8, 1951, Serial No. 210,002

3 Claims. (Cl. 340—276)



3. In an alarm system of the class described, a metallic receptacle disposed closely adjacent the wall of a room; an alarm; an alarm restraining circuit including a source of current, an alarm restraining element, and a pair of inconspicuous contact points on said wall, all connected in series; the outer faces of said points being at least flush with the surface plane of the wall, a pair of conductor points projecting from the receptacle and registering with and respectively contacting the points in the wall, one of said conductor points being in electrical conducting contact with the wall of the receptacle and the other conductor point extending through the wall of the receptacle and insulated therefrom; a horizontally sliding container within the receptacle; a normally closed switch within the receptacle, means electrically connecting the switch with the first of said conductor points and with the wall of the receptacle; and said switch having a resiliently projected button adapted to be retracted to switch-closing position by the container in its normal position and to be actuated to switch-opening position by unauthorized displacement of said container in the receptacle; whereby upon dislodgement of the receptacle either in a direction parallel with the wall or in a direction away from the wall, or actuation of the switch, the restraining circuit is broken, the alarm restraining element de-energized, and the alarm released for actuation.

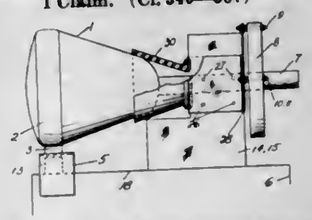
2,643,373

MOUNTING OF CATHODE-RAY TUBES FOR TELEVISION RECEPTION

Myron J. Morris, Yonkers, N. Y., assignor to Tele King Corporation, a corporation of New York

Application July 21, 1950, Serial No. 175,216

1 Claim. (Cl. 340—367)



In a cathode ray tube supporting structure for a television receiver, a chassis and a pair of telescoping members, one supported on the chassis and the other supported on the first one in several vertically adjustable positions for supporting the cathode ray tube at adjustable heights, said chassis at its front portion having permanently attached thereto angular elements permitting support of a round screen cathode ray tube, and a bridge element extending over said angular elements and also attached to said chassis at the sides thereof for supporting a quadrangular screen cathode ray tube, said first telescoping member being also adjustable along said chassis in a horizontal direction.

2,643,374

SYSTEM OF AERIAL NAVIGATION

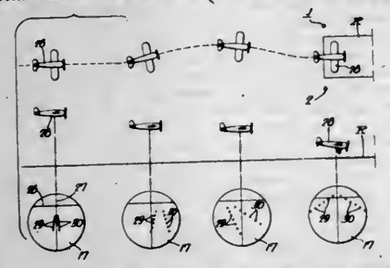
John B. Bartow, Blue Bell, Pa., assignor to Bartow Beacons Inc., Blue Bell, Pa., a corporation of Pennsylvania

Application August 25, 1950, Serial No. 181,459

12 Claims. (Cl. 343—108)

1. Flight path marking apparatus for guiding receiver-equipped aircraft, comprising: a pair of parallel rows of ground beacon units; means in each beacon unit for producing invisible radiant energy of a wave length shorter than 10 cm., which energy, upon radiation thereof, is subject to scattering by reflective or diffusive particles in the atmosphere; and means in each beacon unit for radiating and beaming the energy therefrom

in a predetermined radiation pattern in which the beam portions radiated in different directions toward a vertical flight plane substantially equidistant from the two rows of beacon units are of



different intensities to establish in said vertical plane substantially uniform field strength of the direct radiated energy, whereby the strength, in said plane, of scattered energy is caused to be below the field strength therein of direct energy from each beacon unit, and the receiver on an aircraft proceeding along said plane is enabled to discern the beacon units despite the presence of the aforementioned particles in the atmosphere.

2,643,375
METHOD OF TREATING HAIR
Virgil A. Gant, Oak Park, Ill., assignor to Northwestern Research Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application December 26, 1951, Serial No. 263,509
17 Claims. (Cl. 132—7)

1. The method of setting the hair on the human head comprising the steps of treating the hair with a thermosetting organo-silicon polymer reacted to an intermediate stage of polymeric growth and an organo-silicon fluid, and then heating the treated hair to advance the polymer while the hair is being positioned in the arrangement in which it is to be set.

DESIGNS

JUNE 23, 1953

169,885
SPOON OR SIMILAR ARTICLE
Phyllis B. Askew, Meriden, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut
Application July 5, 1952, Serial No. 20,485
Term of patent 3½ years
(Cl. D54—12)



The ornamental design for a spoon or similar article, substantially as shown.

169,886
PLATE OR SIMILAR ARTICLE
George A. Baker, Walnut Park, Calif., assignor to Max Weil
Application July 9, 1952, Serial No. 20,531
Term of patent 3½ years
(Cl. D44—15)



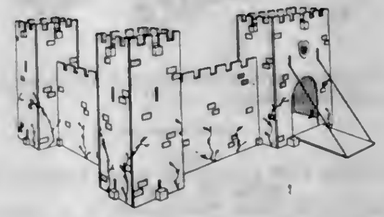
The ornamental design for a plate, or similar article, as shown and described.

169,887
SPECTACLE FRONT
Harry Berman, Bronx, Vito Errico, New Hyde Park, and Dominick Lofrese, Bronx, N. Y.
Application November 3, 1952, Serial No. 22,114
Term of patent 7 years
(Cl. D57—1)



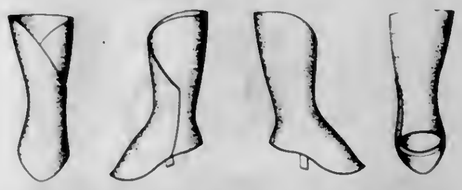
The ornamental design for a spectacle front, substantially as shown and described.

169,888
WALL AND TOWER UNIT FOR A TOY FORTRESS OR SIMILAR ARTICLE
Gerhard R. Beyer, Conway, N. H.
Application February 2, 1951, Serial No. 14,078
Term of patent 7 years
(Cl. D34—15)



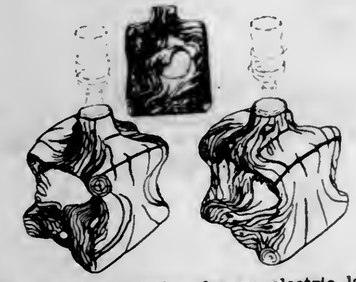
The ornamental design for a wall and tower unit for a toy fortress or similar article, as shown and described.

169,889
SPAT OR SIMILAR ARTICLE
Madeleine J. Bollenbach, Chicago, Ill.
Application November 21, 1952, Serial No. 22,402
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a spat or similar article, substantially as shown.

169,890
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill.
Application February 12, 1953, Serial No. 23,572
Term of patent 3½ years
(Cl. D48—20)



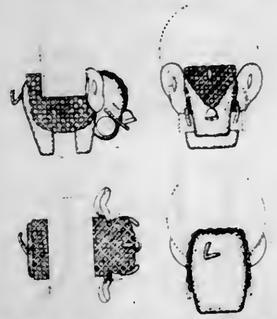
The ornamental design for an electric lamp base, substantially as shown and described.

169,891
BRACELET OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application January 27, 1953, Serial No. 23,326
Term of patent 3½ years
(Cl. D45—4)



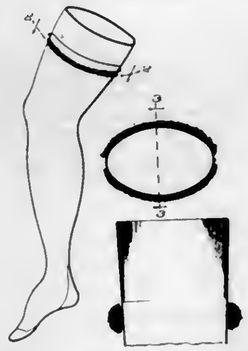
The ornamental design for a bracelet or similar article, as shown.

169,892
HOLDER FOR COSMETIC CONTAINERS OR SIMILAR ARTICLE
Frederick M. Breen, Westchester, N. Y., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware
Application September 25, 1952, Serial No. 21,592
Term of patent 14 years
(Cl. D86—10)



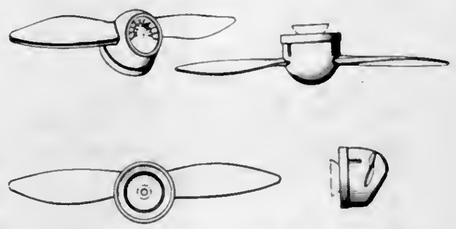
The ornamental design for a holder for cosmetic containers or similar article, substantially as shown and described.

169,893
STOCKING
Henry T. Bryan, Chattanooga, Tenn.
Application January 7, 1953, Serial No. 23,064
Term of patent 7 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

169,894
THERMOMETER
Samuel Burrows, Chicago, Ill., assignor to Neo Products Co., Chicago, Ill., a corporation of Illinois
Application May 28, 1952, Serial No. 19,933
Term of patent 3½ years
(Cl. D52—7)



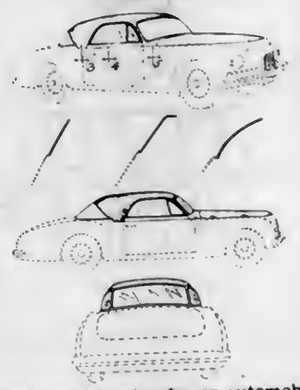
The ornamental design for a thermometer, substantially as shown and described.

169,895
OPEN END HOUSING FOR SLIDE TYPE MATCH COVERS
Henry C. Burton, New York, N. Y., assignor to S. A. F. F. A. Soc. P. Az. Fabriche Fiammiferi Ed Affini, Milan, Italy
Application October 21, 1952, Serial No. 21,920
Term of patent 14 years
(Cl. D48—29)



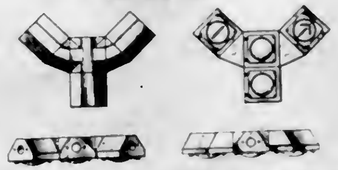
The ornamental design for an open end housing for slide type match covers, as shown.

169,896
AUTOMOBILE
Virgil M. Exner, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 12, 1952, Serial No. 20,163
Term of patent 7 years
(Cl. D14—3)



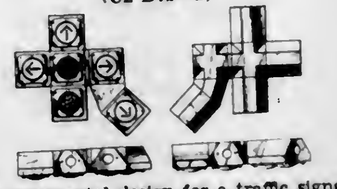
The ornamental design for an automobile, substantially as shown and described.

169,897
TRAFFIC SIGNAL
James R. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia
Application September 16, 1952, Serial No. 21,487
Term of patent 14 years
(Cl. D72—1)



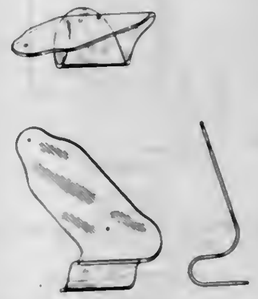
The ornamental design for a traffic signal, as shown and described.

169,898
TRAFFIC SIGNAL
James R. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia
Application September 16, 1952, Serial No. 21,489
Term of patent 14 years
(Cl. D72—1)



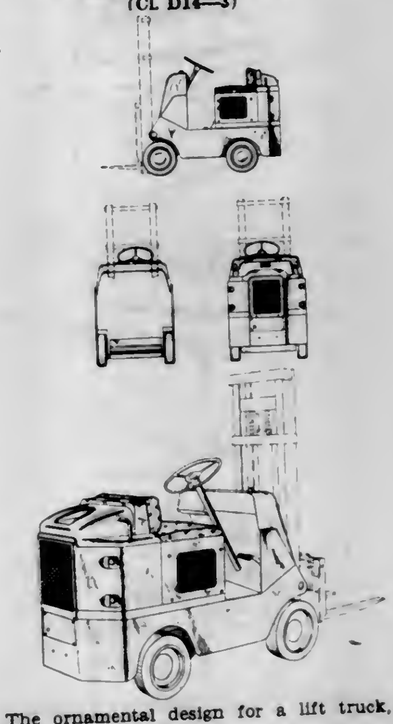
The ornamental design for a traffic signal, as shown and described.

169,899
SOCK DISPLAY FORM
Hollis M. Fisk, Oakland, Calif., assignor to John A. Delamater, San Francisco, Calif.
Application March 15, 1952, Serial No. 18,911
Term of patent 14 years
(Cl. D80—8)



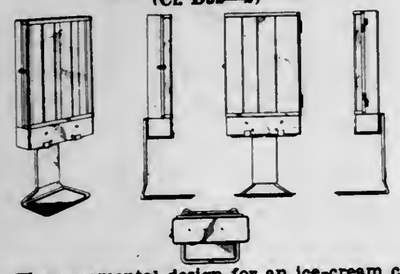
The ornamental design for a sock display form, as shown.

169,900
LIFT TRUCK
Joseph A. Frischmann, Cleveland Heights, Ohio
Application May 16, 1951, Serial No. 15,198
Term of patent 14 years
(Cl. D14—3)



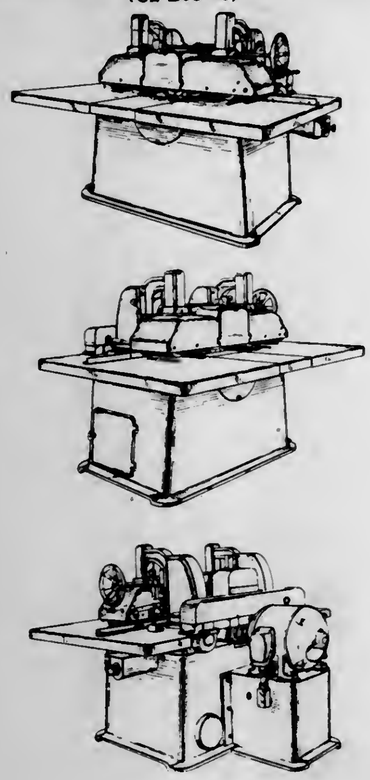
The ornamental design for a lift truck, as shown and described.

169,901
ICE-CREAM CONE DISPENSER
Max Goldberg, Glencoe, Ill.
Application February 8, 1952, Serial No. 18,446
Term of patent 3½ years
(Cl. D52—2)



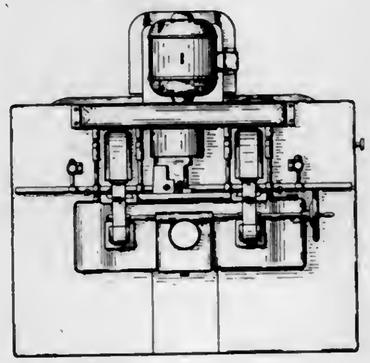
The ornamental design for an ice-cream cone dispenser, as shown.

169,902
GANG RIPSAW
George M. Gustin, Wabash, Ind., assignor to The G. M. Diehl Machine Works, Inc., Wabash, Ind., a corporation of Indiana
Application December 31, 1952, Serial No. 22,947
Term of patent 14 years
(Cl. D93—3)

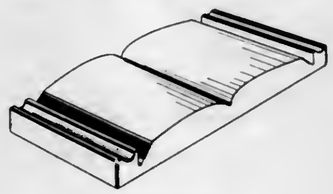


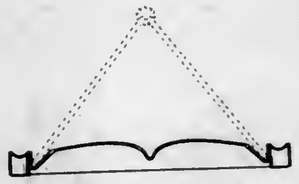
The ornamental design for a gang ripsaw, as shown.

169,902—Continued



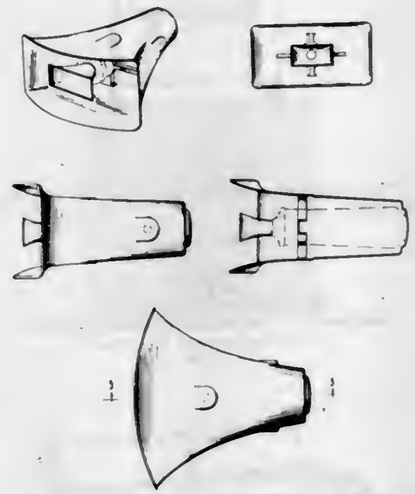
169,903
COPYBOOK HOLDER
Hazel J. Hawkinson, San Diego, Calif.
Application March 9, 1953, Serial No. 23,952
Term of patent 14 years
(Cl. D74—1)





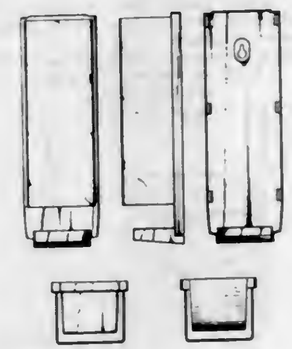
The ornamental design for a copybook holder, as shown and described.

169,904
REENTRANT AND DIRECT DIFFRACTION LOUD-SPEAKER HORN
Louis S. Hoodwin, Bridgman, Mich., assignor to Electro-Voice, Incorporated, Buchanan, Mich.
Application May 31, 1952, Serial No. 19,976
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a reentrant and direct diffraction loud-speaker horn, as shown and described.

169,905
CIGARETTE PACKAGE DISPENSER
Clayton A. Laughlin, Minneapolis, Minn., assignor to Northwest Plastics, Inc., St. Paul, Minn., a corporation of Minnesota
Application March 18, 1952, Serial No. 18,947
Term of patent 14 years
(Cl. D52—2)



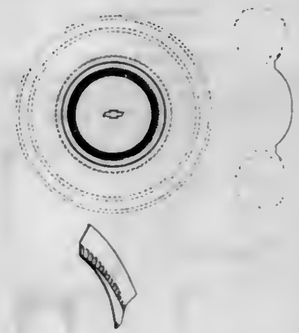
The ornamental design for a cigarette package dispenser, as shown.

169,906
COPYHOLDER FOR TYPISTS
Melba G. Lewis, Denver, Colo.
Application January 30, 1953, Serial No. 23,375
Term of patent 14 years
(Cl. D74—1)



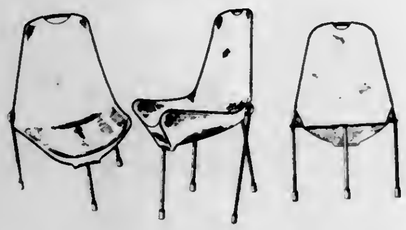
The ornamental design for a copyholder for typists, as shown and described.

169,907
WHEEL COVER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application April 19, 1952, Serial No. 19,400
Term of patent 14 years
(Cl. D14—30)



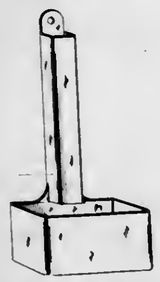
The ornamental design for a wheel cover or similar article, substantially as shown and described.

169,908
POSTURE CHAIR
Helen Merit and Horace G. Wear, Jr., New York, N. Y.
Application February 11, 1952, Serial No. 18,464
Term of patent 14 years
(Cl. D15—8)



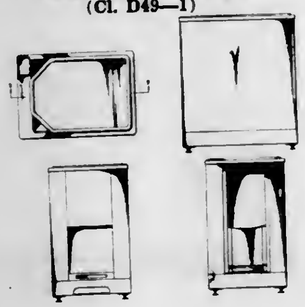
The ornamental design for a posture chair, as shown.

169,909
COMBINED SCISSORS SHEATH AND SPOOL HOLDER
James J. Mulcrone, Sr., Minneapolis, Minn.
Application May 26, 1951, Serial No. 15,320
Term of patent 3½ years
(Cl. D3—19)

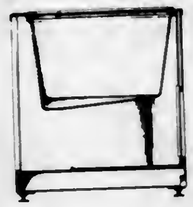


The ornamental design for a combined scissors sheath and spool holder, as shown and described.

169,910
LAUNDRY TUB
Bernard E. Mustee, Cleveland, Ohio
Application January 15, 1953, Serial No. 23,160
Term of patent 14 years
(Cl. D49—1)

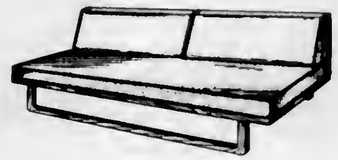


169,910—Continued



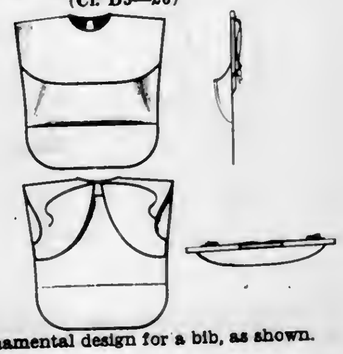
The ornamental design for a laundry tub, substantially as shown.

169,911
SETTEE
Hans Netzer, New York, N. Y.
Application June 28, 1952, Serial No. 20,399
Term of patent 3½ years
(Cl. D15—11)



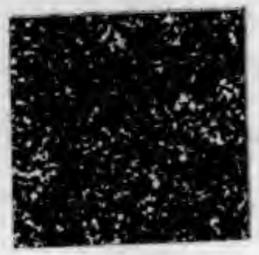
The ornamental design for a settee, substantially as shown and described.

169,912
BIB
Harold A. Owen, Dover, Del., assignor to International Latex Corporation, Dover, Del., a corporation of Delaware
Application January 15, 1953, Serial No. 23,154
Term of patent 14 years
(Cl. D3—26)



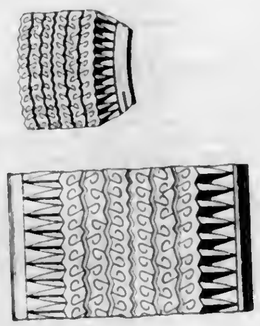
The ornamental design for a bib, as shown.

169,913
LAMINATED PLASTIC SHEET
George C. Rassman, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 19, 1952, Serial No. 19,398
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a laminated plastic sheet, as shown.

169,914
PNEUMATIC TIRE
Eugene A. Roberts, Hamden, Conn., assignor to The Armstrong Rubber Company, West Haven, Conn., a corporation of Connecticut
Application November 15, 1952, Serial No. 22,305
Term of patent 14 years
(Cl. D90—20)



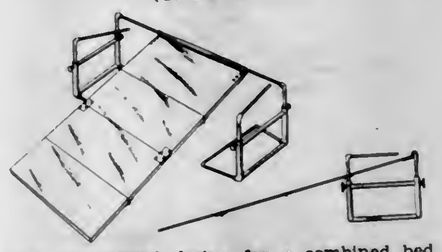
The ornamental design for a pneumatic tire, substantially as shown and described.

169,915
TEXTILE FABRIC OR SIMILAR ARTICLE
Charles F. Scholle, Darien, Conn., assignor to Desley Fabrics, Division of J. H. Thorp and Co. Inc., New York, N. Y., a corporation of New York
Application February 19, 1953, Serial No. 23,688
Term of patent 3½ years
(Cl. D92—1)



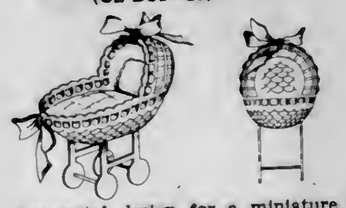
The ornamental design for a textile fabric or similar article, substantially as shown and described.

169,916
COMBINED BED COVER SUPPORT AND HEALTH BOARD
Helen McLanahan Stevens, New York, N. Y.
Application July 8, 1952, Serial No. 20,509
Term of patent 14 years
(Cl. D5—2)



The ornamental design for a combined bed cover support and health board, as shown.

169,917
MINIATURE TOY BASSINET
Evelyn L. Stowell, Garden City, Mich.
Application December 5, 1951, Serial No. 17,607
Term of patent 7 years
(Cl. D34—15)



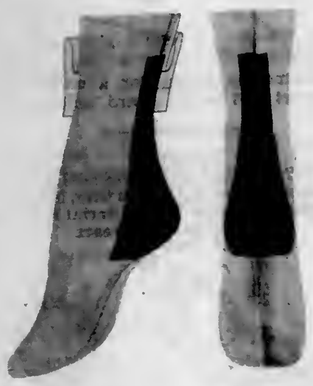
The ornamental design for a miniature toy bassinet, substantially as shown and described.

169,918
STOCKING
George C. Tait, Schillington, Pa.
Application December 27, 1951, Serial No. 17,839
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

169,919
STOCKING
William Tait, Wyomissing, Pa.
Application February 7, 1952, Serial No. 18,422
Term of patent 14 years
(Cl. D47—7)



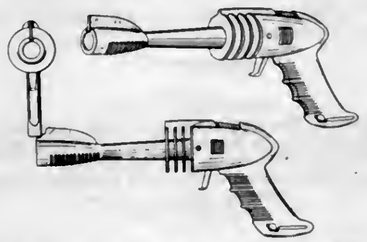
The ornamental design for a stocking, as shown.

169,920
BARBER CHAIR APRON
Victor J. Vece, Redwood City, Calif.
Application January 8, 1953, Serial No. 23,073
Term of patent 14 years
(Cl. D3—26)



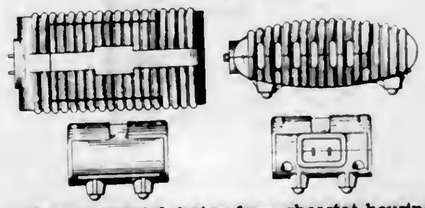
The ornamental design for a barber chair apron, as shown.

169,921
TOY GUN
Sidney Wasserman and Allen M. Sterns, Detroit, Mich., assignors to Futuristic Products Company, Detroit, Mich., a partnership
Application June 9, 1952, Serial No. 20,087
Term of patent 3½ years
(Cl. D34—15)



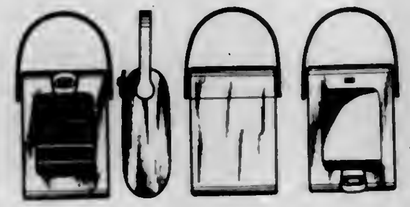
The ornamental design for a toy gun, as shown.

169,922
RHEOSTAT HOUSING
Carl Weissenstein, New York, N. Y., assignor to Carol Electrical Control, Inc., Brooklyn, N. Y., a corporation of New York
Application November 12, 1952, Serial No. 22,225
Term of patent 14 years
(Cl. D26—5)



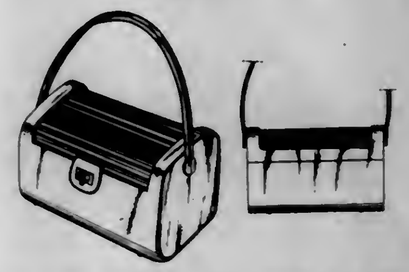
The ornamental design for a rheostat housing, substantially as shown and described.

169,923
HANDBAG OR SIMILAR ARTICLE
Oscar Wolf, New York, N. Y.
Application June 28, 1952, Serial No. 20,387
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag or similar article, substantially as shown.

169,924
HANDBAG OR SIMILAR ARTICLE
Oscar Wolf, New York, N. Y.
Application June 28, 1952, Serial No. 20,388
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag or similar article, substantially as shown.

June 30, 1953 Volume 671 Number 5

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business June 12, 1953

Total number of patent applications awaiting action, 98,436. Date of oldest new application, September 5, 1952; date of oldest amended application, September 3, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.	9-15-52	9-13-52	1445
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	10-14-52	9-29-52	1108
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	10-27-52	10-24-52	1950
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-24-52	9-24-52	1457
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	10-2-52	10-7-52	1006
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Ostes.	9-5-52	9-3-52	2577
6. SURLE, H., Carbon Chemistry (part)	10-2-52	10-2-52	1604
7. GONSALVES, J. E., Optics; Photography (part)	10-1-52	10-2-52	1647
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	10-6-52	9-24-52	1246
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	10-13-52	10-13-52	1322
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	9-20-52	9-30-52	1109
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	10-10-52	9-25-52	1221
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	9-18-52	9-15-52	1259
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	0-15-52	10-7-52	1445
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	9-16-52	9-17-52	1659
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	9-22-52	9-20-52	1654
16. LOVEWELL, N. N., Television; Telephony; Recorders	9-25-52	9-25-52	1574
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	10-9-52	10-15-52	658
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-24-52	9-23-52	1164
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	10-13-52	10-13-52	1300
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	9-23-52	9-17-52	1282
21. MADER, R. C., Textiles	10-6-52	10-4-52	950
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	9-18-52	9-16-52	834
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	11-12-52	11-14-52	1018
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	9-16-52	9-5-52	1282
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	10-13-52	10-13-52	1843
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	9-26-52	9-23-52	1216
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	10-2-52	9-30-52	1111
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	9-12-52	9-26-52	1158
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	11-17-52	11-17-52	1326
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	9-15-52	9-13-52	2460
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	10-23-52	10-27-52	1226
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	9-30-52	9-29-52	1839
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	9-22-52	9-20-52	1236
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	11-6-52	10-28-52	1166
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	10-13-52	10-10-52	1082
36. McFADYEN, A. D., Measuring and Testing	10-10-52	10-20-52	1697
37. LEVY, M. L., Electricity-Switches, Welding, Heating	10-9-52	10-10-52	1505
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	11-24-52	11-24-52	1705
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-2-53	1-2-53	950
40. DRUMMOND, E. J., Receptacles (part); Packages	10-14-52	10-16-52	1521
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds			

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	9-25-52	9-27-52	1902
43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	9-27-52	9-27-52	1754
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	10-15-52	10-13-52	1318
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	9-16-52	9-15-52	1075
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	9-22-52	9-19-52	1640
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	9-20-52	9-19-52	1855
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	10-4-52	10-8-52	1305
50. BENOEL, W. G., Synthetic Resins; Rubber	11-26-52	12-2-52	1585
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	9-25-52	9-18-52	1589
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	11-5-52	11-1-52	1878
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	10-7-52	10-8-52	965
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	9-29-52	9-25-52	1828
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	10-10-52	10-14-52	940
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	10-28-52	10-31-52	1251
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	10-25-52	10-16-52	1663
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	9-19-52	9-22-52	1378
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	10-14-52	10-10-52	1409
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	10-10-52	10-8-52	975
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	10-21-52	10-11-52	1193
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	9-19-52	9-17-52	1796
64. GORECKI, O. A., Fuels and Miscellaneous Compositions	9-18-52	9-16-52	1809
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43. (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	10-8-52	10-6-52	812
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	10-10-52	10-8-52	1678
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	11-12-52	11-10-52	1412
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	10-7-52	10-6-52	1602
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	9-9-52	9-6-52	3299
DESIGNS: A—BREHM, G. L., Industrial Arts	2-13-53	2-13-53	914
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	2-13-53	2-16-53	788

Number of new applications received week ending May 22, 1953

PATENTS 1,499 DESIGNS 140 REISSUES 6 TOTAL 1,645

Total number of trade-mark applications awaiting action (including renewals and republications), 10,523.
Date of oldest new application, Jan. 19, 1953; date of oldest amended application, Jan. 19, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	1-19-53	1-19-53	2468
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	2-2-53	2-4-53	2468
Renewals (All Classes)	4-15-53	5-25-53	551
Republications (All Classes)	4-20-53	5-12-53	260
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	1-23-53	2-4-53	2511
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-22-53	1-23-53	2265

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Acme Venetian Blind Mfg. Co., Inc., Chicago, Ill. Venetian blinds. Serial No. 586,612, June 30. Class 32.

Active Tool & Manufacturing Co., Detroit, Mich. Sinks. Serial No. 620,079, June 30. Class 13.

Adams, George, New York, N. Y. Bathing caps, bathing suits, and bathing slippers. Serial No. 637,978, June 30. Class 39.

Albe, Robert, West Keansburg, N. J. Sandwich. Serial No. 615,739, June 30. Class 46.

Altmann, Bernhard, Texas Corporation, The, San Antonio, Tex. Men's and women's sweaters. Serial No. 639,867, June 30. Class 39.

American Art Clay Company, Indianapolis, Ind. Crayons. Serial No. 628,987, June 30. Class 37.

American Colortype Company, Chicago, Ill., assignor to Armstrong Cork Company, Lancaster, Pa. Periodical publication. Serial No. 640,890, June 30. Class 38.

American Cyanamid Company, New York, N. Y. Machine which forms a gelatin film, and forms, measures and fills the gelatin capsules therefrom. Serial No. 630,981, June 30. Class 26.

American Machine and Metals, Inc., New York, N. Y. Laundry machinery. Serial No. 627,660, June 30. Class 24.

American Paper & Pulp Co., Inc., New York, N. Y. Bond paper. Serial No. 630,545, June 30. Class 37.

Angier Chemical Co., Inc., assignee: *See*—
Angier Chemical Company.

Angier Chemical Company, assignor, by mesne assignments, to Angier Chemical Co., Inc., Boston, Mass. Medical preparations, emulsion of refined petroleum used as a mild laxative, etc. Serial No. 591,762, June 30. Class 18.

Anquin Company, Lehighton, Pa. Women's full fashioned hosiery. Serial No. 632,820, June 30. Class 39.

Ardalt Inc., New York, N. Y. Figurines and statuettes. Serial No. 624,006, June 30. Class 50.

Arkay Junior Frocks, Inc., New York, N. Y. Women's and misses' dresses, petticoats, underwear, etc. Serial No. 636,871, June 30. Class 39.

Armstrong Cork Company, assignee: *See*—
American Colortype Company.

Atlantic Commission Co. Inc., New York, N. Y. Shelled salted peanuts, shelled salted assorted nut meats, etc. Serial No. 642,795, June 30. Class 46.

Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Whiskey. Serial No. 636,916, June 30. Class 49.

Ayerst, McKenna & Harrison Limited, New York, N. Y. Inhaler for use with anesthetics. Serial No. 632,284, June 30. Class 44.

Bach, Edna A., doing business under the name and style of Bach's Peck-O-Egg Mfg. Co., Manhattan Beach, Calif. Bird biscuits. Serial No. 637,232, June 30. Class 46.

Bach's Peck-O-Egg Mfg. Co.: *See*—
Bach, Edna A.

Bailey, Joe W., doing business under the name of Lamb's Lan-O-Lin Laboratory, Buffalo, N. Y. Preparation for setting the hair, conditioning the scalp, etc. Serial No. 633,750, June 30. Class 51.

Baltimore Luggage Company, The, Baltimore, Md. Luggage. Serial No. 624,992, June 30. Class 3.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. Serial No. 629,762, June 30. Class 42.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. Serial No. 641,163, June 30. Class 42.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Tufted pile carpeting. Serial No. 641,265, June 30. Class 42.

Baugh and Sons Company, Baltimore, Md. Synthetic granular bone char. Serial No. 625,710, June 30. Class 6.

Baxter, Don, Inc., Glendale, Calif. Apparatus for use in the transfusion of blood, etc. Serial No. 620,564, June 30. Class 44.

Baxter, Don, Inc., Glendale, Calif. Blood anti-coagulant solutions. Serial No. 620,565, June 30. Class 18.

Baxter, Don, Inc., Glendale, Calif. Blood anti-coagulant solutions. Serial No. 620,569, June 30. Class 18.

Baxter, Don, Inc., Glendale, Calif. Solutions containing vitamins or constituents thereof and solutions for parenteral therapy. Serial No. 620,570, June 30. Class 18.

Baxter, Don, Inc., Glendale, Calif. Solutions for parenteral use. Serial No. 620,574, June 30. Class 18.

Baxter, Don, Inc., Glendale, Calif. Blood donor set. Serial No. 626,141, June 30. Class 44.

Baxter Laboratories, Inc., Morton Grove, Ill. Blood anti-coagulant solutions. Serial No. 620,575, June 30. Class 18.

Baxter Laboratories, Inc., Morton Grove, Ill. Closure-equipped bottles for use in the transfusion of blood, etc. Serial No. 620,576, June 30. Class 44.

Baxter Laboratories, Inc., Morton Grove, Ill. Blood anti-coagulant solutions. Serial No. 620,579, June 30. Class 18.

Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use, and solutions for parenteral therapy. Serial No. 620,581, June 30. Class 18.

Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use. Serial No. 620,583, June 30. Class 18.

Baxter Laboratories, Inc., Morton Grove, Ill. Container maintained under vacuum and a donor set for use therewith. Serial No. 625,393, June 30. Class 44.

Beasley-Bailey Poultry Co., Inc., Athens, Ala. Frozen and fresh dressed chickens. Serial No. 632,588, June 30. Class 46.

Binney & Smith Company, New York, N. Y. Chalk crayon. Serial No. 622,734, June 30. Class 37.

Bischoff, Ernst, Co., Inc.: *See*—
Bischoff, Ernst, Co., Incorporated.

Bischoff, Ernst, Co., Incorporated, sometimes called Ernst Bischoff Co., Inc., and Ernst Bischoff Company, Inc., Ivoryton, Conn. Medicine or pharmaceutical preparation. Serial No. 637,032, June 30. Class 18.

Bischoff, Ernst, Company, Inc.: *See*—
Bischoff, Ernst, Co., Incorporated.

Blaustein, Lew S., Rockville Centre, N. Y. Dresses. Serial No. 640,098, June 30. Class 39.

Block & Anderson Limited, London, England. Hectographic carbon paper. Serial No. 626,973, June 30. Class 11.

Boehringer, C. H., Sohn, Ingelheim am Rhein, Germany. Drug used in the treatment of rhinitis. Serial No. 640,884, June 30. Class 18.

Bonwit Teller, Inc., New York, N. Y. Corsets, gloves, pajamas, etc. Serial No. 636,920, June 30. Class 39.

Booth Fisheries Corporation, Chicago, Ill. Pickled herring. Serial No. 637,984, June 30, Class 46.

Botany Mills, Inc., Passaic, N. J. Woolen piece goods. Serial No. 641,428, June 30. Class 42.

Brach, E. J., & Sons, Chicago, Ill. Candy. Serial No. 643,276, June 30. Class 46.

Brainerd Bait Co., St. Paul, Minn. Artificial bait. Serial No. 633,529, June 30. Class 22.

Bren Products, Incorporated, Arlington, Va. Iced cakes. Serial No. 628,805, June 30. Class 46.

Brewer, Jess A., Danville, Ill. Gloves. Serial No. 628,741, June 30. Class 39.

Broadcast Music, Inc., New York, N. Y. Calibrated rule. Serial No. 638,469, June 30. Class 26.

Brenco Rubber Products Co., Los Angeles, Calif. Industrial wheels. Serial No. 616,199, June 30. Class 19.

Brooks, Betty, Co., Huntington Park, Calif. Men's and boys' sweat shirts, sweat pants, gym shirts, etc. Serial No. 637,749, June 30. Class 39.

Brooks, Inc., Washington, D. C. Umbrellas. Serial No. 635,460, June 30. Class 41.

Brown, Morton, New York, N. Y. Ladies' and misses' slips. Serial No. 641,709, June 30. Class 39.

Budd, Charles, Corporation, New Rochelle, assignor by mesne assignments, to The Custanite Corporation, Westchester County, N. Y. Soft hammers. Serial No. 616,408, June 30. Class 23.

Bymart, Inc.: *See*—
Bymart-Tintair, Inc.

Bymart-Tintair, Inc., Dover, Del., and New York, N. Y., by change of name from Bymart, Inc. Home hair coloring. Serial No. 607,659, June 30. Class 51.

Calumet Cheese Co., Inc., Hilbert, Wis. Frozen cheese spreads. Serial No. 645,287, June 30. Class 46.

Camera-Mart, Inc., The, New York, N. Y. Cameras; camera dollies and parts thereof, etc. Serial No. 617,862, June 30. Class 26.

Carey Press Corporation, New York, N. Y. Diaries. Serial No. 630,877, June 30. Class 37.

Carlo Erba S. P. A., Milan, Italy. Antitubercular compositions. Serial No. 637,033, June 30. Class 18.

Carroll, P. J., & Co. Limited, Dundalk, Ireland, and Liverpool, England. Manufactured tobacco. Serial No. 629,087, June 30. Class 17.

Character Novelty Co., South Norwalk, Conn. Stuffed toys. Serial No. 641,831, June 30. Class 22.

Chemalloy Foundry Company, Louisiana, Mo. Aluminum-alloy castings. Serial No. 615,869, June 30. Class 14.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 636,687, June 30. Class 18.

Chicago Vitreous Enamel Product Co., Cicero, Ill. Pigmented fused glass-like ceramic composition. Serial No. 635,521, June 30. Class 1.

Church Grape Juice Company, Kennewick, Wash. Bottled blend of Concord grape and apple juices. Serial No. 629,152, June 30. Class 46.

Collins & Aikman Corporation, Philadelphia, Pa. Fabrics. Serial No. 641,274, June 30. Class 42.

Colorado Milling & Elevator Co., The Denver and Monte Vista, Colo., doing business as The Monte Vista Flour Mills Co. Wheat flour. Serial No. 557,504, June 30. Class 46.

Columbia Records Inc., Bridgeport, Conn. Grooved phonograph records. Serial No. 637,701, June 30. Class 36.

Columbian Art Works, Inc., Milwaukee, Wis. Combination check, deposit, and expenditure account book. Serial No. 603,045, June 30. Class 37.

Convoy, Incorporated, Canton, Ohio. Filing cases. Serial No. 640,613, June 30. Class 32.

Copco Steel & Engineering Company, Detroit, Mich. Medicine cabinets for insertion in a wall, residential, commercial, industrial and utility windows, etc. Serial No. 615,821, June 30. Class 12.

Corbett, R. H., & Co. Limited, Burgess Hill, England. Apparatus or machines operated hydraulically or by other power for lifting heavy objects. Serial No. 617,108, June 30. Class 23.

Cromwell Paper Company, The, Chicago, Ill. Embossed laminated waterproof paper. Serial No. 637,363, June 30. Class 37.

Crosman Seed Corporation, East Rochester, N. Y. Grass seed mixture. Serial No. 629,290–1, June 30. Class 1.

Crystal, David Inc., New York, N. Y. Silk piece goods and rayon piece goods. Serial No. 630,766, June 30. Class 42.

Cunningham, Russ, Chicago, Ill. Periodically issued series of radio scripts. Serial No. 639,395, June 30. Class 38.

Curtis, Helene, Industries, Inc., Chicago, Ill. Hair conditioner. Serial No. 623,340, June 30. Class 51.

Custanite Corporation, The, assignee: *See*—
Budd, Charles, Corporation.

Davenport Hosiery Mills, Inc., Chattanooga, Tenn. Hosiery. Serial No. 630,992, June 30. Class 39.

Deering, Millikin & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 633,923, June 30. Class 42.

Doho Chemical Corporation, New York, N. Y., assignee of Dr. Walter von Horst. Biotic preparation. Serial No. 618,520, June 30. Class 18.

Dorr Company, The, Stamford, Conn. Centrifugal machinery. Serial No. 622,071, June 30. Class 23.

Dunham, James H., & Co., New York, N. Y. Fabric or fabrics cut in predetermined forms for arrangement in accordance with instructions to form casual and beach jackets and sport shirts, etc. Serial No. 623,504, June 30. Class 39.

Eau de Colognefabriek, J. C. Boldoot N. V., Amsterdam, Netherlands. Perfumes, colognes, toilet cream, etc. Serial No. 611,604–5, June 30. Class 51.

Ellison, Samuel H., doing business as V C Juice Co., Lakeland, Fla. Frozen concentrated orangeade. Serial No. 601,984, June 30. Class 45.

El Rancho, Yugurti: *See*—
Lipsky, Marcus.

Empire Imports, Inc., New York, N. Y. Ladies' sweaters, skirts, jackets, etc. Serial No. 640,198, June 30. Class 39.

Engel Mills, New York, N. Y. Clothing for men, clothing for babies, clothing for boys, etc. Serial No. 605,150, June 30. Class 39.

England, George C., Inglewood, Calif. Live chinchillas. Serial No. 637,120, June 30. Class 1.

Essex Wire Corporation, Detroit, Mich. Electric wire harnesses. Serial No. 639,323, June 30. Class 21.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Electrodes. Serial No. 640,732, June 30. Class 21.

Evergrip Products Corporation, New York, N. Y. Picture hanging brackets or clips. Serial No. 638,641, June 30. Class 13.

Faberge, Inc., New York, N. Y. Perfumes. Serial No. 635,753, June 30. Class 51.

Famous Virginia Foods, Inc., Lynchburg, Va. Pickles, jams, jellies, etc. Serial No. 644,227, June 30. Class 46.

Feinrider Bros., New York, N. Y. Ladies' dresses. Serial No. 640,201, June 30. Class 39.

Ferber Corporation, Englewood, N. J. Ball point pens, fountain pens, mechanical pencils, etc. Serial No. 640,155, June 30. Class 37.

Fish-Schurman Corporation, New Rochelle, N. Y. Lens blanks, lenses, color screens, etc. Serial No. 629,429, June 30. Class 26.

Flower Fame, New York, N. Y. Artificial flowers and feathers. Serial No. 618,788, June 30. Class 40.

Forstmann Woolen Company, Passaic, N. J. Men's, women's, and children's knitted apparel. Serial No. 620,844–5, June 30. Class 39.

Fort Howard Paper Company, Green Bay, Wis. Paper napkins. Serial No. 640,508, June 30. Class 37.

Franklin Dress Co., Inc., Chicago, Ill. Women's dresses and suits. Serial No. 530,184, June 30. Class 39.

Frieder, S., & Sons Company, The, Cincinnati, Ohio, and Philadelphia, Pa. Cigars and cheroots. Serial No. 569,515, June 30. Class 17.

Ganahl, Alexander J., doing business as Ganahl Company, St. Louis, Mo. Columnar structures. Serial No. 597,746, June 30. Class 12.

Ganahl Company: *See*—
Ganahl, Alexander J.

Gem Rubber Corporation, New York, N. Y. Toe rubbers, heel strip rubbers, and half robbers. Serial No. 620,597, June 30. Class 39.

General Bottlers, Inc., Chicago, Ill. Bottled carbonated soft drink beverages. Serial No. 597,203, June 30. Class 45.

Gift House: *See*—
Smith, Stanley D.

Gold Rain Recording Company, Detroit, Mich. Grooved phonograph records. Serial No. 559,920, June 30. Class 36.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Automotive vehicle seat covers, automotive vehicle brakes, and resilient supports for automotive vehicles. Serial No. 582,301, June 30. Class 19.

Gramophone Company Limited, The, Hayes, Middlesex, England. Grooved phonograph records. Serial No. 639,470, June 30. Class 36.

Halligan, Mary A., doing business as Halligan Tool Company, New York, N. Y. Forcible entry tool. Serial No. 642,468, June 30. Class 23.

Halligan Tool Company: *See*—
Halligan, Mary A.

Hardwick Woolen Mills, Inc., Cleveland, Tenn. Men's, cadets', and boys' suits, topcoats, sport coats and slacks. Serial No. 623,656, June 30. Class 39.

Harrison Art Advertising, Inc., doing business as Harrison Color Process, Philadelphia, Pa. Preparing and printing advertising copy. Serial No. 613,669, June 30. Class 101.

Harrison Color Process: *See*—
Harrison Art Advertising, Inc.

Harris-Seybold Company, Cleveland, Ohio. Coating compositions and ingredients thereof for lithographic surfaces. Serial No. 618,451, June 30. Class 6.

Henning, Paul F. W., Chicago, Ill. Antidote for alcoholism or fatigue. Serial No. 630,494, June 30. Class 18.

Henro Blouse Corporation, New York, N. Y. Ladies' blouses, skirts, and sport shorts. Serial No. 641,025, June 30. Class 39.

Herz Specialty Products, Inc., Long Island City, N. Y. School bags, beach bags, fitted and unfitted traveling bags, etc. Serial No. 613,774, June 30. Class 3.

Heublein, G. F., & Bro., Inc., Hartford, Conn. Canned soups; mustard; canned baked beans, etc. Serial No. 636,128, June 30. Class 46.

Hobson, J. H., Company, Philadelphia, Pa. Nonfat dry milk solids. Serial No. 639,050, June 30. Class 46.

Home Specialty Co., Chicago, Ill. Window and shower curtains, draperies, and textile rugs, etc. Serial No. 603,845, June 30. Class 42.

Horii Toshado Kabushiki-Kaisha, Chiyoda-Ku, Tokyo, Japan. Stencil sheets and stencil papers. Serial Nos. 637,633–4, June 30. Class 37.

Hudnut, Richard, New York, N. Y. Hand cream. Serial No. 627,263, June 30. Class 51.

Independent Leather Manufacturing Co., Inc., Gloversville, N. Y. Water-repellent and treated leather. Serial No. 637,278, June 30. Class 1.

Independent Wholesale Dry Goods Association, Inc., New York, N. Y. Cotton, rayon, linen, and silk piece goods, and sheets, etc. Serial No. 619,972, June 30. Class 42.

Indestro Manufacturing Corp., Chicago, Ill. Socket wrenches, socket wrench sets, socket wrench kits, etc. Serial No. 621,267, June 30. Class 23.

Ingram, David, Detroit, Mich. Men's and women's hats and caps. Serial No. 620,965, June 30. Class 39.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Ready-mixed paint. Serial No. 640,282, June 30. Class 10.

International Banking Corporation, New York, N. Y., and elsewhere in the United States and in foreign nations. Banking services. Serial No. 632,376, June 30. Class 102.

Isenstead, Joseph H., Canajoharie, N. Y. Liver extract, insulin, spleen preparation. Serial No. 635,420, June 30. Class 18.

Jackson, Byron, Co., Los Angeles, Calif. Monthly publication. Serial No. 636,080, June 30. Class 38.

Jefferson, Thomas, Memorial Foundation, Incorporated, Charlottesville, Va. Chests of drawers, wardrobes, tables, and chairs. Serial No. 626,329, June 30. Class 32.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Chain sprockets. Serial No. 631,557, June 30. Class 23.

Joell Manufacturing Co.: *See*—
Menschik, Murray.

Jones, Edward N., doing business as Southern Oil Chemical Company, Pettus, Tex. Petroleum for treating equipment to prevent scale and corrosion. Serial No. 640,403, June 30. Class 6.

Joy Manufacturing Company, Pittsburgh, Pa. Molded rubber and/or synthetic rubber covered electric power and communication connectors; controllers for electric motors, etc. Serial No. 632,941, June 30. Class 21.

Kalart Company Inc., The, Plainville, Conn. Photographic attachments and accessories. Serial No. 615,711, June 30. Class 26.

Kangol Wear Limited, Cumberland, England. Berets. Serial No. 639,757, June 30. Class 39.

Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England. Hydraulic pumps, motors, and rams and parts thereof, etc. Serial No. 616,233, June 30. Class 23.

Kemberling, Lottie, Dutch Pantry, Monroe Township, Snyder County, Pa. Potato salad, macaroni salad, vegetable salad, etc. Serial No. 580,247, June 30. Class 46.

Kenmore Metals Corporation, Jersey City, N. J. Precoated metallic wire and stripping. Serial No. 622,260, June 30. Class 14.

Kettle Cove Industries, Inc., Manchester, Mass. Preserved fruits, jellies, and jams, etc. Serial No. 643,166, June 30. Class 46.

Keystone Silver Inc., New York, N. Y. Electric coffee percolators. Serial No. 602,407, June 30. Class 21.

Kidde, Walter, & Company, Inc., Belleville, N. J. Portable fire extinguishers. Serial No. 617,299, June 30. Class 23.

Kleinert, I. B., Rubber Company, New York, N. Y. Women's panties. Serial No. 613,374, June 30. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. Serial No. 639,887, June 30. Class 40.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. Serial No. 640,090, June 30. Class 40.

Kress, S. H., and Company, New York, N. Y. Thread and yarn. Serial No. 642,445, June 30. Class 43.

Lamb's Lan-O-Lin Laboratory: *See*—
Bailey, Joe W.

Laminated Shim Company, Incorporated, Glenbrook, Conn. Shims. Serial No. 633,546, June 30. Class 35.

Lammertz, Leo, Aachen, Germany. Hand sewing needles. Serial No. 606,405, June 30. Class 40.

Larco Nuclear Instrument Company: *See*—
Ruderman, Irving W.

La Resista Corset Company, The, Bridgeport, Conn. Brassières, ladies' foundation undergarments, and ladies' bathing suits. Serial No. 642,148, June 30. Class 39.

Lauson Company, The, New Holstein, Wis. Internal combustion engines and parts therefor. Serial Nos. 642,079–80, June 30. Class 23.

Legge, Walter G., Company, Inc., New York, N. Y. Grounding devices to be attached to equipment for the prevention of shock. Serial No. 640,795, June 30. Class 21.

Lenape Hydraulic Pressing & Forging Co., Lenape, Pa. Repair sleeves and weld sleeves, boiler nozzles, etc. Serial No. 632,816, June 30. Class 13.

Les Heritiers de Marie Brizard & Roger, Achard, Glotin & Cie., Bordeaux, France. Alcoholic liqueurs. Serial No. 616,718, June 30. Class 49.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 637,058, June 30. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 639,320, June 30. Class 18.

Lipsky, Marcus, doing business as El Rancho Yugurti, Monrovia, Calif. Yogurt. Serial No. 617,116, June 30. Class 46.

Lonshein-Saqqal, Inc., New York, N. Y. Robes, housecoats, pajamas and negligees. Serial No. 633,848, June 30. Class 39.

Madera Bonded Wine and Liquor Company, The, Baltimore, Md. Wines. Serial No. 634,744, June 30. Class 47.

Magazine Publishers, Inc., Chicago, Ill. Comic magazines. Serial No. 641,455, June 30. Class 38.

Maple Producers Co-operative Association, Inc., Gouverneur, N. Y. Maple sugar and maple syrup. Serial No. 628,593, June 30. Class 46.

Markwell Manufacturing Co., Inc., New York, N. Y. Fountain pens. Serial No. 625,208, June 30. Class 37.

Mathieson Chemical Corporation, Baltimore, Md. Superfine sulphur. Serial No. 644,044, June 30. Class 6.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Menschik, Murray, doing business under the trade name Joell Manufacturing Co., Brooklyn, N. Y. Fitted hand bags. Serial No. 636,898, June 30. Class 3.

Merck & Co. Inc., Rahway, N. J. Therapeutic substance. Serial No. 629,173, June 30. Class 18.

Merrimac Hat Corporation, New York, N. Y., and Amesbury, Mass. Men's, women's, and children's hats and hat bodies. Serial No. 600,441, June 30. Class 39.

Metals Disintegrating Company, Inc., Elisabeth, N. J. Metallic cleaning shot. Serial No. 615,844, June 30. Class 4.

Metropolitan Label Co., Brooklyn, N. Y. Printed cloth and paper labels and printed paper tags. Serial No. 634,796, June 30. Class 38.

Meyer, George J., Malt and Grain Corporation, Buffalo, N. Y. Malt in the form of germinated grain. Serial No. 629,309, June 30. Class 1.

Michigan Fruit Canners, Inc., Benton Harbor, Mich. Frozen and canned fruits, canned vegetables, and frozen and canned berries. Serial No. 641,735, June 30. Class 46.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed papers. Serial No. 628,286, June 30. Class 37.

Miller and Rhoads, Incorporated, Richmond, Va. Bedroom suites and open-stock pieces therefor, dining room suites and open-stock pieces therefor, etc. Serial No. 623,112, June 30. Class 32.

Miller and Rhoads, Incorporated, Richmond, Va. Phonographs and recorders. Serial No. 623,115, June 30. Class 36.

Monte Vista Flour Mills Co., The: *See*—
Colorado Milling & Elevator Co., The.

Mutual Buying Syndicate, Inc., New York, N. Y. Ladies' hosiery. Serial No. 617,308, June 30. Class 39.

Naeb-Underwood, Inc., Chicago, Ill. Chocolate flavored peanut butter. Serial No. 608,714, June 30. Class 46.

National Plumbing Stores Corp., Columbus, Ohio. Semiyearly periodical publication. Serial No. 640,750, June 30. Class 38.

New Jersey Machine Corporation, Hoboken, N. J. Labeling machines. Serial No. 540,941, June 30. Class 23.

New Yorker Magazine, Inc., The, New York, N. Y. Magazine column. Serial No. 637,392, June 30. Class 38.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion engines. Serial No. 631,757, June 30. Class 23.

Normandie Bedspread Co., New York, N. Y. Bedspreads. Serial No. 641,202, June 30. Class 42.

Nova Sales Co., Trenton, N. J. Water-proofing compositions for admixture with concrete, stucco, etc. Serial No. 613,677, June 30. Class 12.

Oley Products Inc., Inwood, N. Y. Door stop, for a screen and door closer. Serial No. 630,304, June 30. Class 13.

Osborn Manufacturing Company, The, Cleveland, Ohio. Plastic coated stranded brush bristle material. Serial No. 593,186, June 30. Class 1.

Paj Manufacturing Co., Los Angeles, Calif. Outer shirts. Serial No. 629,117, June 30. Class 39.

Panacalite Pacific, Inc., Los Angeles, Calif. Expanded perlite. Serial Nos. 629,510–11, June 30. Class 1.

Panray Corp., The, New York, N. Y. Drugs and tablets. Serial No. 600,444, June 30. Class 18.

Paramount Publishing Company, Charlotte, N. C. Tax computation booklets. Serial No. 637,076, June 30. Class 38.

Pastene & Co., Inc., New York, N. Y. Edible salad and cooking oils, coffee, canned fish, etc. Serial No. 572,323, June 30. Class 46.

Paton, John G., Company, Inc., The, New York, N. Y. Canned pineapple juice. Serial No. 642,835, June 30. Class 46.

Philadelphia Valve Company, Philadelphia, Pa. Pipe couplings. Serial No. 631,022, June 30. Class 13.

Pincus Bros. Incorporated, Philadelphia, Pa. Men's and boys' suits, sportcoats, slacks, etc. Serial No. 628,167, June 30. Class 39.

Porter, H. K., Inc., Somerville, Mass. Single-hand cutting-off metal working tools. Serial No. 612,824, June 30. Class 23.

Pressing Supply Company, Philadelphia, Pa. Irooing board pads and ironing board pad covers. Serial No. 624,499, June 30. Class 24.

Productos Selinos, Inc., Ponce, Puerto Rico. Table salt. Serial No. 626,340, June 30. Class 46.

Quality Chekd Dairy Products Association, Chicago, Ill. Frozen dairy dessert. Serial No. 625,124, June 30. Class 46.

Rand Rubber Company, Inc., Brooklyn, N. Y. Water repellent baby pants. Serial No. 640,169, June 30. Class 39.

Regensburg, E., & Sons., New York, N. Y. Cigars. Serial No. 640,759, June 30. Class 17.

Rentner, Maurice, Inc., New York, N. Y. Perfumes. Serial No. 623,850, June 30. Class 51.

Resistant Lubricant Co. of America: *See*—
Schwager, Henry A., Jr.

Rheinische Röhrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany. Metal plates and metal sheets and metal tubing stock. Serial No. 635,324, June 30. Class 14.

Riverdale Manufacturing Co., Inc., New York, N. Y. Draperies. Serial No. 618,816, June 30. Class 42.

Roberts Turkey Brand Corned Meats, San Francisco, Calif. Uncooked cuts of corned beef and uncooked cuts of corned pork. Serial No. 580,354, June 30. Class 46.

Roth Silk Undergarment Co., Inc., New York, N. Y. Women's and misses' slips, petticoats, and nightgowns. Serial No. 636,739, June 30. Class 39.

Ruderman, Irving W., doing buiness as Larco Nuclear Instrument Company, Palisades, N. J. Phosphorescent or fluorescent polymers, copolymers, synthetic plastics, etc. Serial No. 637,725, June 30. Class 6.

Rust Craft Publishers: *See*—
United Printers and Publishers (Incorporated).

SKF Industries, Inc., Philadelphia, Pa. Anti-friction ball and roller bearings. Serial No. 607,275, June 30. Class 23.

Sagner's, A., Son, Baltimore, Md. Men's suits, coats, slacks, etc. Serial No. 636,540, June 30. Class 39.

Same, Howard W., & Co., Inc., Indianapolis, Ind. Publication. Serial No. 614,010, June 30. Class 38.

Sandy Hill Iron & Brass Works, The, Hudson Falls, N. Y. Periodical. Serial No. 639,782, June 30. Class 38.

Sapphire Corporation, New York, N. Y. Women's hosiery. Serial No. 621,841, June 30. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Antibiotic feed supplements. Serial No. 637,403, June 30. Class 18.

Schwager, Henry A., Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich. Sealing compound or lubricant. Serial No. 623,683, June 30. Class 15.

LIST OF TRADE-MARK APPLICANTS

Scientific Glass Apparatus Co. Inc., Bloomfield, N. J. Assemblies consisting of a thermometer, and an adapter for mounting the thermometer in the neck of a vessel, etc. Serial No. 633,125, June 30. Class 26.

Servel, Inc., Evansville, Ind., and New York, N. Y. Refrigerators, refrigerator parts, automatic refrigerating parts, etc. Serial No. 611,242, June 30. Class 31.

Shakespeare Company, Kalamazoo, Mich. Fishing reels. Serial No. 631,069, June 30. Class 22.

Sheffield Corporation, The, Dayton, Ohio. Sensing head adapted for contact with an object to be gauged. Serial No. 631,501, June 30. Class 26.

Sherer-Gillett Company, Marshall, Mich. Display counters, self-service food counters, and combination display and self-service food counters. Serial No. 632,696, June 30. Class 32.

Sherman Manufacturing Company, Sherman, Tex. Cotton duck. Serial No. 618,513, June 30. Class 42.

Shoe Corporation of America, Columbus, Ohio. Shoes. Serial No. 575,934, June 30. Class 39.

Smith, Stanley D., doing business as Gift House, Aberdeen, S. Dak. Trading or merchandise stamps. Serial No. 638,018, June 30. Class 38.

Southern Knitwear Mills, Inc., Charlotte, N. C. Children's knitwear. Serial No. 636,747, June 30. Class 39.

Southern Oil Chemical Company: *See*—
Jones, Edward N.

Space-Maid, Inc., New York, N. Y. Table top protectors made of textile padding, etc. Serial No. 615,947, June 30. Class 42.

Sporting News Publishing Company, Inc., The, St. Louis, Mo. Newspaper columns. Serial No. 638,783, June 30. Class 38.

Spurgeon Hosiery Corporation, Philadelphia, Pa. Ladies' hosiery. Serial No. 639,962, June 30. Class 39.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for use in the treatment of diarrhea, etc. Serial No. 632,450, June 30. Class 18.

Standard Brands Incorporated, New York, N. Y. Coffee. Serial Nos. 629,633–4, June 30. Class 46.

Standard Food Products Corp., Brooklyn, N. Y. Wines. Serial No. 614,795, June 30. Class 47.

Star Knitting Company, LaCrosse, Wis. Women's and children's blouses. Serial No. 624,764, June 30. Class 39.

Stern Brothers, New York, N. Y. Ceramic articles. Serial No. 639,516, June 30. Class 30.

Stern Brothers, New York, N. Y. Drinking glasses and tumblers, luncheon sets, etc. Serial No. 639,518, June 30. Class 33.

Stern Brothers, New York, N. Y. Bath towels, bath mats, dish towels, etc. Serial No. 639,523, June 30. Class 42.

Summit Mills Corporation, New York, N. Y. Men's sport shirts. Serial No. 623,566, June 30. Class 39.

Summit Sportswear Company, Boston, Mass. Skirts. Serial No. 639,200, June 30. Class 39.

Sun Maid Raisin Growers of California, Fresno, Calif. Raisin juice. Serial No. 639,594, June 30. Class 46.

Sunny Sally Inc., Los Angeles, Calif. Fresh vegetables. Serial No. 643,248, June 30. Class 46.

Sun-Pacific Inc., San Diego, Calif. Food products. Serial No. 638,223, June 30. Class 46.

Supreme Pants Co., Inc., New York, N. Y. Boys' pants. Serial No. 620,935, June 30. Class 39.

Texas Dress Corporation, Dallas, Tex. Women's and children's dresses, blouses, skirts, and jackets. Serial No. 637,670, June 30. Class 39.

Trix Distributors, Inc., Seattle, Wash. Tweezers for toilet use. Serial No. 641,993, June 30. Class 44.

Union Bag & Paper Corporation, New York, N. Y. Water and weather proof paper. Serial No. 639,677, June 30. Class 37.

United Printers and Publishers (Incorporated), doing business under the name Rust Craft Publishers, Boston, Mass. Greeting cards. Serial No. 632,055, June 30. Class 38.

U. S. Electrical Motors, Inc., Los Angeles, Calif. Oil lubricated gear transmission mechanisms. Serial No. 630,290, June 30. Class 23.

U. S. Fabrics, Inc., New York, N. Y. Textile fabrics. Serial Nos. 641,530–1, June 30. Class 42.

Universal Packing & Gasket Company, Houston, Tex. Neoprene sheet, plant fiber sheet, neoprene diaphragm sheet, etc. Serial No. 628,834, June 30. Class 1.

V C Juice Co.: *See*—
Ellison, Samuel H.

Vertipile, Inc., Lowell, Mass. Fibers. Serial No. 638,558, June 30. Class 1.

Viking Laboratories, Inc., Des Moines, Iowa. Liquid mineral feed supplement. Serial No. 609,824, June 30. Class 18.

Vonett Sales Company: *See*—
Vonett Sales Corporation.

Vonett Sales Corporation, doing business as Vonett Sales Company, Los Angeles, Calif. Non-electrical hair curlers, Serial No. 625,505, June 30. Class 40.

Von Horst, Dr. Walter: *See*—
Doho Chemical Corporation.

Wacker, Dr. Alexander, Gesellschaft fur Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Perfumes, hair tonic, face lotion, etc. Serial No. 635,569, June 30. Class 51.

Ward Leonard Electric Company, Mount Vernon, N. Y. Electric illumination control dimmers and switchboards. Serial No. 625,535, June 30. Class 21.

Wawak Company, Inc., Chicago, Ill. Woolen piece goods. Serial No. 559,261, June 30. Class 42.

Wayside Turkey Farms, Prospect, Ohio. Dressed turkeys. Serial No. 638,679, June 30. Class 46.

Weather-Seal, Inc., Barberton, Ohio. Construction kits comprising hinges, side runs, etc. Serial No. 635,107, June 30. Class 13.

Weiger Weed & Company, Detroit, Mich. Non-consumable resistance welding tips or electrodes, spot welding tips, seam welding wheels, etc. Serial No. 640,592, June 30. Class 21.

Wells, John C., Lakewood, Ohio. Paint brushes. Serial No. 633,440, June 30. Class 29.

Western Acceptance Corporation, Pueblo, Colo. Financing automobile dealers' time sales, etc., and making loans. Serial No. 619,556, June 30. Class 102.

Weyerhaeuser Timber Company, Tacoma, Wash. Kraft container board. Serial No. 640,090, June 30. Class 37.

White Brothers, Inc., Winchendon Springs, Mass. Cotton piece goods. Serial No. 631,705, June 30. Class 42.

Whitinsville Spinning Ring Company, Whitinsville, Mass. Spinning and twister rings. Serial No. 639,683, June 30. Class 23.

Willey, A. R., and Sons, Inc., Denver, Colo. Centrifugal pumps and parts thereof. Serial Nos. 634,672–4, June 30. Class 23.

Windsor Pen Corp., New York, N. Y. Fountain pens, ball point pens, mechanical pencils and combinations thereof. Serial No. 639,684, June 30. Class 37.

Yates-American Machine Company, Beloit, Wis. Radiators for internal combustion engines. Serial No. 620,709, June 30. Class 23.

Young, W. T., Foods, Inc., Lexington, Ky. Unshelled peanuts. Serial No. 632,766, June 30. Class 46.

Ziegenhain, Elfrieda M., Woodside, N. Y. Safety purses. Serial No. 618,829, June 30. Class 3.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Worsted Mills, Incorporated, Wilton, N. H. Piece goods. 306,291, renewed Sept. 12, 1953. O. G. June 30. Class 42.

Adam Hat Stores, Inc., New York, N. Y. Men's hats. 302,578, renewed Apr. 25, 1953. O. G. June 30. Class 39.

Addressograph-Multigraph Corporation: *See*—
Multigraph Company.

Adet Seward (Ste Anonyme), Bordeaux, France. Brandy. 304,009, renewed June 13, 1953. O. G. June 30. Class 49.

Adventures in Good Eating, Inc., Chicago, Ill. Books. 576,574, June 30; Serial No. 584,742, published Mar. 31, 1953. Class 38.

Air Reduction Company, Incorporated, New York, N. Y. Inhalation anesthetic. 576,722, June 30; Serial No. 629,275, published Oct. 14, 1952. Class 18.

Allied Chemical & Dye Corporation, New York, N. Y. Nitrogen-containing solutions, suitable for use as fertilizers. 576,808, June 30; Serial No. 636,265, published Apr. 7, 1953. Class 10.

All-Sil Welding Metals, Inc., New York, N. Y. Fluxes. 576,603, June 30; Serial No. 602,131, published Apr. 14, 1953. Class 6.

Alumatic Corporation of America, West Allis, Wis. Combination windows. 576,669, June 30; Serial No. 621,538, published Mar. 31, 1953. Class 12.

American Chemical Manufacturing & Mining Co., Rochester, to The Best Foods, Inc., New York, N. Y. Shoe polish. 41,082, re-renewed Sept. 8, 1953. O. G. June 30. Class 4.

American Cyanamid Company, New York, N. Y. Catalyst. 576,828, June 30; Serial No. 637,028, published Apr. 14, 1953. Class 6.

American Cyanamid Company, New York, N. Y. Insecticide. 576,851, June 30; Serial No. 640,250, published Apr. 14, 1953. Class 6.

American Desk Manufacturing Co., Temple, Tex. Desks. 576,794, June 30; Serial No. 635,673, published Apr. 14, 1953. Class 32.

American Home Products Corporation, assignee: *See*—
Imperial Chemical (Pharmaceuticals) Limited.

American-Marietta Company: *See*—
Sewall Paint & Varnish Company.

American-Marietta Company, Chicago, Ill. Paints, varnishes, lacquers, etc. 396,589, July 28, 1942. Republished June 30, 1953. Class 16.

American Metal Specialties Corporation, Hatboro, Pa. Toy. 576,877–8, June 30; Serial Nos. 634,623–4. Class 22.

American Molasses Company: *See*—
Nulomoline Company, The.

American Monomer Corporation, Leominster, Mass. Polyvinyl alcohol. 576,739, June 30; Serial No. 630,744, published Apr. 21, 1953. Class 6.

American Scientific Laboratories, Inc., Madison, Wis. Product for the prevention and control of blackhead in fowl. 576,745, June 30; Serial No. 631,197, published Mar. 31, 1953. Class 18.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., Worcester, Mass., and Hoboken, N. J., to United States Steel Corporation, Pittsburgh, Pa. Metal fence posts. 300,030, renewed Jan. 3, 1953. O. G. June 30. Class 13.

American Tobacco Company, The: *See*—
Melachrino, M., & Co.

American Window Glass Company, Pittsburgh, Pa. Glass sheets. 576,726, June 30; Serial No. 629,646, published Apr. 14, 1953. Class 33.

American Window Glass Company, Pittsburgh, Pa. Safety glass. 576,727, June 30; Serial No. 629,647, published Apr. 14, 1953. Class 33.

Anahist Co. Inc., Yonkers, N. Y. Preparation for symptomatic relief of colds and allergies. 576,575, June 30; Serial No. 585,736, published Aug. 1, 1950. Class 18.

Anchor Packing Company, The, Philadelphia, Pa. Felt sheet packing. 576,640, June 30; Serial No. 613,754, published Apr. 21, 1953. Class 35.

Applicolor, Inc., Chicago, Ill. Containers, namely, glass bottles. 576,777, June 30; Serial No. 634,286, published Apr. 14, 1953. Class 33.

Archer-Daniels-Midland Company, Minneapolis, Minn. Cereal binder. 576,791, June 30; Serial No. 635,455, published Apr. 14, 1953. Class 5.

Arden, Elizabeth: *See*—
Lewis, Florence N.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Perfume, toilet water, skin creams, etc. 249,444, Nov. 13, 1928. Republished June 30. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Skin cream, skin tonic, muscle oil, etc. 252,449, Feb. 5, 1929. Republished June 30. Classes 18, 51, and 52.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Toilet powder. 283,974, June 9, 1931. Republished June 30. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks. 289,493–4, Dec. 1, 1931. Republished June 30. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks. 289,617, Dec. 1, 1931. Republished June 30. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Face powder. 290,219, Dec. 22, 1931. Republished June 30. Class 51.

Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Lewis, Florence N.

Ardoil Products: *See*—
Simmons, Pearl M.

Ashley-Rhodes, Inc., Louisville, Ky. Novelty and occasional tables. 576,779, June 30; Serial No. 634,437, published Apr. 7, 1953. Class 32.

Babson Bros. Co., Chicago, Ill. Column in a periodical. 576,721, June 30; Serial No. 629,227, published Mar. 31, 1953. Class 38.

Baker Castor Oil Company, The, Jersey City, N. J. Esters of dehydrated castor oil fatty acids. 576,666, June 30; Serial No. 621,443, published Apr. 21, 1953. Class 6.

Baker Castor Oil Company, The, Jersey City, N. J. Esters of long-chain fatty acids. 576,667, June 30; Serial No. 621,444, published Apr. 21, 1953. Class 6.

Baltzly Company, The: *See*—
Baltzly, Stanley M.

Baltzly, Stanley M., doing business as The Baltzly Company, Massillon, by M. B. Baumhart, Vermilion, Ohio. Preparation for the treatment of dandruff, etc. 201,623, Aug. 4, 1925. Republished June 30. Classes 18 and 51.

Barry, Donald, Productions, Inc., Los Angeles, Calif. Soaps. 576,656, June 30; Serial No. 617,851, published Apr. 14, 1953. Class 52.

Barton Manufacturing Company, St. Louis, Mo. Shoe polishing kit. 576,872, June 30; Serial No. 624,775. Class 4.

Bastida, Francisco F., Espinardo (Murcia), Spain. Cayenne pepper. 576,569, June 30; Serial No. 574,426, published Apr. 7, 1953. Class 46.

Baumhart, Maxine H.: *See*—
Baltzly, Stanley M.

Bay City Freezer, Inc., Bay City, Mich. Frozen vegetables. 576,848, June 30; Serial No. 630,408, published Apr. 7, 1953. Class 46.

Beard, John, Memorial Foundation, San Francisco, Calif. Medicinal preparation. 576,759, June 30; Serial No. 632,241, published Mar. 31, 1953. Class 18.

Beardsley's, J. W., Sons, Newark, N. J. Prepared meat and fish products. 304,276, renewed June 27, 1953. O. G. June 30. Class 46.

Beauty Brassiere Co., Newark, N. J. Brassières, bandeaux, corsets, etc. 576,559, June 30; Serial No. 521,054, published Apr. 7, 1953. Class 39.

Beckman Instruments, Inc., South Pasadena, Calif. Unitary apparatus for performing titrations. 576,692, June 30; Serial No. 625,394, published Feb. 24, 1953. Class 26.

Bendix Aviation Corporation, assignee: *See*—
Northrop Aircraft, Inc.

Bendix Aviation Corporation, Detroit, Mich. Fluids—namely, hydraulic brake fluids. 576,738, June 30; Serial No. 630,698, published Apr. 21, 1953. Class 6.

Benoit, Constant, New York, to Permatex Company, Inc., Brooklyn, N. Y. Ready-mixed adhesive shellac. 93,418, re-renewed Sept. 16, 1953. O. G. June 30. Class 5.

Berry Brothers, Detroit, Mich., by Berry Brothers, Inc., Chicago, Ill. Varnishes. 104,196, May 11, 1915. Republished June 30. Class 16.

Berry Brothers, by Berry Brothers, Inc., Detroit, Mich. Varnishes. 158,386, Sept. 5, 1922. Republished June 30. Class 16.

Berry Brothers, by Berry Brothers, Inc., Detroit, Mich. Varnishes. 158,612, Sept. 12, 1922. Republished June 30. Class 16.

Berry Brothers, by Berry Brothers, Inc., Detroit, Mich. Paint enamels and varnishes. 331,776, Jan. 21, 1936. Republished June 30. Class 16.

Berry Brothers, by Berry Brothers, Inc., Detroit, Mich. Varnishes, paint enamels, and lacquers. 340,011, Oct. 27, 1936. Republished June 30. Class 16.

Berry Brothers, Inc.: *See*—
Berry Brothers.
Berry Brothers, Limited.

Berry Brothers, Inc., Detroit, Mich. Varnish. 194,111, Jan. 13, 1925. Republished June 30. Class 16.

Berry Brothers, Limited, by Berry Brothers, Inc., Detroit, Mich. Varnish. 25,141, Aug. 14, 1894. Republished June 30. Class 16.

Best Foods, Inc., The: *See*—
American Chemical Manufacturing & Mining Co.

Bibeau: *See*—
Bibeau, Wilfred.

Bibeau, Wilfred, doing business under the name Bibeau, Waterbury, Conn. Imitation maple butter and imitation maple peanut butter. 576,846, June 30; Serial No. 639,204, published Apr. 7, 1953. Class 46.

Biddle Purchasing Company, doing business as Meridian Distributors, New York, N. Y. Tires and tubes. 576,814, June 30; Serial No. 636,458, published Apr. 14, 1953. Class 35.

Bird & Son, Inc., East Walpole, Mass. Insulation board. 576,762, June 30; Serial No. 632,869, published Mar. 31, 1953. Class 12.

Boehmer, Inc., Wenatchee, Wash. Fresh deciduous fruits. 576,836, June 30; Serial No. 637,567, published Apr. 7, 1953. Class 46.

Bolling, R. S., doing business under the fictitious name and style of National Silicone Products Co., Los Angeles, Calif., assignor to The Silicote Corporation, Oshkosh, Wis. Polishing preparation. 576,584, June 30; Serial No. 592,751, published Apr. 1, 1952. Class 4.

Bona, Emanuele, doing business under the firm name Lanificio Basilio Bona, Caselle Torinese, Turin, Italy. Textile fabrics. 576,866, June 30; Serial No. 596,032. Class 42.

Borden Company, The, New York, N. Y. Poultry feed supplement, feed supplement for cattle rations, hog feed supplement. 576,564, June 30; Serial No. 564,551, published Apr. 7, 1953. Class 18.

Borden Quality, Inc., New York, N. Y., to Frank Pilley & Sons, Inc., Sioux City, Iowa. Dressed poultry and eggs. 298,718, renewed Nov. 1, 1952. O. G. June 30. Class 46.

Borden Quality, Inc., New York, N. Y., to Frank Pilley & Sons, Inc., Sioux City, Iowa. Cheese, butter, dressed poultry, and eggs. 298,721, renewed Nov. 1, 1952. O. G. June 30. Class 46.

Borden's Produce Company, Inc., Omaha, Nebr., to Frank Pilley & Sons, Inc., Sioux City, Iowa. Condensed buttermilk. 300,493, renewed Jan. 24, 1953. O. G. June 30. Class 46.

Bowen, Hardy J., doing business as Industrial Models, Arden, Del. Industrial and domestic models—namely, scale models. 576,582, June 30; Serial No. 589,825, published Feb. 24, 1953. Class 26.

Brandwein, A., & Company, Chicago, Ill. Mattresses, box springs, and dual sleeping items. 576,633, June 30; Serial No. 612,436, published Apr. 14, 1953. Class 32.

Breese Burners, Inc., Santa Fe, N. Mex. Oil heaters, oil burners, and burner pots. 576,736, June 30; Serial No. 630,662, published Mar. 17, 1953. Class 34.

Brembeck, Howard S., doing business as Chore Time Equipment Company, Alliance, Ohio. Feeding and watering troughs for pigs and hogs. 576,765, June 30; Serial No. 633,254, published Apr. 7, 1953. Class 50.

Bright Leaf Industries, Inc., Charlotte, N. C. Apparatus for conditioning air adapted to be circulated through tobacco barns. 576,752, June 30; Serial No. 631,600, published Mar. 17, 1953. Class 34.

Bright Leaf Industries, Inc., Charlotte, N. C. Apparatus for conditioning air within tobacco barns. 576,753, June 30; Serial No. 631,601, published Mar. 24, 1953. Class 34.

Brooks, Burleigh Co., New York, N. Y. Photographic flash gun. 576,654, June 30; Serial No. 616,895, published Apr. 21, 1953. Class 26.

Bruder, M. A., & Sons, Incorporated, Philadelphia, Pa. New wall finish. 576,580, June 30; Serial No. 593,711, published Apr. 14, 1953. Class 16.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Display cases. 576,700, June 30; Serial No. 626,145, published Apr. 14, 1953. Class 32.

Bulova Watch Company, Inc., New York, N. Y. Watches. 576,735, June 30; Serial No. 630,379, published Apr. 14, 1953. Class 27.

Bulova Watch Company, Inc., New York, N. Y. Watches. 576,820, June 30; Serial No. 636,768, published Apr. 14, 1953. Class 27.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics. 576,632, June 30; Serial No. 616,157, published Apr. 14, 1953. Class 42.

Burnham Corporation, conducting a departmental business under the name of Lord & Burnham, Irvington-on-Hudson, N. Y. Sash regulator. 576,628, June 30; Serial No. 611,340, published Feb. 24, 1953. Class 26.

Callaway Mills Company, La Grange, Ga. Implements for wiping and dusting purposes. 576,766, June 30; Serial No. 633,298, published Apr. 7, 1953. Class 29.

Capitol Projector Corporation, New York, N. Y. Electrically operated coin controlled moving picture projectors. 576,596, June 30; Serial No. 598,980, published Feb. 24, 1953. Class 20.

Capone, A. J., Company, to Olive Oil Industry, Inc., New York, N. Y. Canned tomato paste, canned tomatoes, and canned sardines. 302,062, renewed Mar. 28, 1953. O. G. June 30. Class 46.

Carey, Philip, Manufacturing Company, The, Lockland, Ohio. Fillers for street pavements, sidewalks, bridges, etc. 90,965, re-renewed Apr. 8, 1953. O. G. June 30. Class 12.

Carr-Consolidated Biscuit Company, assignee: *See*—
Ivins' J. S., Son, Inc.

Carstairs Bros. Distilling Co., Inc.: *See*—
Distillers Corporation Limited.

Carter Products Co.: *See*—
Carter, Willard K.

Carter, Willard K., doing business as Carter Products Co., Columbus, Ohio. Abrading block. 576,611, June 30; Serial No. 605,406, published Apr. 14, 1953. Class 4.

Celanese Corporation of America, New York, N. Y. Fabrics. 302,788, renewed Apr. 25, 1953. O. G. June 30. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 302,796, renewed Apr. 25, 1953. O. G. June 30. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 303,756, renewed June 6, 1953. O. G. June 30. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 304,084, renewed June 20, 1953. O. G. June 30. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 304,595, renewed July 11, 1953. O. G. June 30. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 304,722, renewed July 18, 1953. O. G. June 30. Class 42.

Celanese Corporation of America, New York, N. Y. Men's, women's, and children's underwear. 304,942, renewed July 25, 1953. O. G. June 30. Class 39.

Cement Marketing Company, Limited, The, London and Westminster, England. Portland cement. 576,755, June 30; Serial No. 632,017, published Mar. 31, 1953. Class 12.

Central Chemical Corporation, Hagerstown, Md. Fertilizing compounds. 576,675, June 30; Serial No. 622,925, published Mar. 31, 1953. Class 10.

Central Fibre Products Co., Inc., Hutchinson, Kans. Wall board. 301,887, renewed Mar. 21, 1953. O. G. June 30. Class 12.

Chamberlain, Frank H., Company, Incorporated, Boston, Mass. Men's, boys' and women's hats and caps. 236,899, Dec. 27, 1927. Amended. O. G. June 30. Class 39.

Chartreuse Corporation: *See*—
La Union Agricola Sociedad Anonima.

Chicopee Mills, Inc., New York, N. Y. Pillow cases, crib sheets, and cheesecloth. 576,682, June 30; Serial No. 624,125, published Apr. 14, 1953. Class 42.

Chilean Nitrate Sales Corporation: *See*—
Iodine Educational Bureau, Inc.

Chore Time Equipment Company: *See*—
Brembeck, Howard S.

Citrus Products Company, Chicago, Ill. Chocolate flavored dried milk mix. 576,655, June 30; Serial No. 617,231, published Mar. 17, 1953. Class 46.

Clyborne, Inc., Bluefield, W. Va. Coal. 576,764, June 30; Serial No. 633,143, published Mar. 31, 1953. Class 1.

Colgar & Company, Roswell, N. Mex. Game. 576,803, June 30; Serial No. 636,116, published Apr. 7, 1953. Class 22.

Columbus Coated Fabrics Corporation, Columbus, Ohio. Plastic film. 576,602, June 30; Serial No. 601,712, published Mar. 10, 1953. Class 50.

Comet Rice Mills: *See*—
Seaboard Rice Milling Co.

Compania Ron Bacardi, S. A., Santiago de Cuba, Cuba. Rum. 302,916, renewed May 2, 1953. O. G. June 30. Class 49.

Continental Merchandise Co., Inc., New York, N. Y. Pyrophoric cigarette and cigar lighters, ash trays, and cigarette boxes. 576,616, June 30; Serial No. 607,581, published Apr. 22, 1952. Class 8.

Continental Water Heater Co., Los Angeles, Calif. Automatic gas water heaters. 576,589, June 30; Serial No. 595,535, published Mar. 17, 1953. Class 34.

Cooley, Incorporated, Pawtucket, R. I. Water-proofed and fireproofed fabrics. 576,823, June 30; Serial No. 636,842, published Apr. 14, 1953. Class 42.

Coon, W. B., Company, Rochester, N. Y. Leather, rubber and leather, fabric and leather, boots, shoes and slippers. 154,520, Apr. 18, 1922; republished June 30. Class 39.

Coon, W. B., Company, Rochester, N. Y. Boots, shoes, and slippers. 192,585, Dec. 9, 1924; republished June 30. Class 39.

Coon, W. B., Company, Rochester, N. Y. Shoes. 334,102, Apr. 21, 1936; republished June 30. Class 39.

Coughlan, G. N., Company, West Orange, N. J. Porcelain enamel cleaner. 576,771, June 30; Serial No. 633,837, published Apr. 14, 1953. Class 52.

Creme Simon Anciennement J. Simon & Cie, Societe Anonyme, Lyon, France. Toilet creams. 576,558, June 30; Serial No. 512,997, published Mar. 31, 1953. Class 51.

Crosby Fruit Products Company, La Habra, Calif. Canned citrus fruit juices. 576,678, June 30; Serial No. 623,128, published Apr. 7, 1953. Class 46.

Curtice Brothers Co., Rochester, N. Y. Soups, vegetables, fruits, etc. 56,714, Oct. 16, 1906; republished June 30. Class 46.

Curtice Brothers Co., Rochester, N. Y. Canned fruits, vegetables, canned and potted meats, etc. 117,837, Aug. 7, 1917; republished June 30. Class 46.

Daniels, C. R., Inc., Baltimore, Md. Canvas belting. 444,780, June 30; Serial No. 516,605, published Apr. 14, 1953. Class 35.

David, Charles E., Jr., Clio, S. C. Cartoons. 576,811, June 30; Serial No. 636,349, published Mar. 31, 1953. Class 38.

Day-Baldwin, Inc.: *See*—
Day Chemical Company.

Day Chemical Company, to Day-Baldwin, Inc., Newark, N. J. Surgical lubricating jelly. 302,457, renewed Apr. 18, 1933. O. G. June 30. Class 18.

Decision, Inc., Cincinnati, Ohio. Guide for persons seeking a career in business or industry. 576,789, June 30; Serial No. 635,288, published Apr. 7, 1953. Class 38.

Del Mar Canning Co., Monterey, Calif. Canned fish and frozen fish. 576,850, June 30; Serial No. 640,107, published Apr. 14, 1953. Class 46.

Dental Perfection Company, Glendale, Calif. Methyl methacrylate monomer and polymer and a filler. 576,622, June 30; Serial No. 609,633, published Apr. 21, 1953. Class 6.

Diamond Alkali Company, Cleveland, Ohio. Detergent compositions. 576,648, June 30; Serial No. 615,485, published Apr. 14, 1953. Class 52.

Dickinson, Albert, Company, The, to The Albert Dickinson Company, Chicago, Ill. Popcorn dressing. 304,304, renewed June 27, 1953. O. G. June 30. Class 46.

Die Craft Card & Stationery Co.: *See*—
Stubler, Joseph F.

Distillers Corporation Limited, Montreal, Quebec, Canada, to Carstairs Bros. Distilling Co., Inc., New York, N. Y. Whiskey. 300,206, renewed Jan. 10, 1953. O. G. June 30. Class 40.

Ditta I. Busilacchio & Fili., Osimo, Italy. Accordions and parts thereof. 576,869, June 30; Serial No. 616,370. Class 36.

Diversey Corporation, The, Chicago, Ill. Chemical product in granular form for cleaning machinery, etc. 576,696, June 30; Serial No. 625,664, published Apr. 14, 1953. Class 52.

Diversey Corporation, The, Chicago, Ill. Cleaning compound. 576,805, June 30; Serial No. 636,168, published Apr. 14, 1953. Class 52.

Dixie Paper Shell Pecan Exchange, Inc., Barneaville, Ga. Shelled, unshelled, toasted, and salted pecans. 576,671, June 30; Serial No. 621,708, published Apr. 7, 1953. Class 46.

Down Beat, Incorporated, Chicago, Ill. Section of periodical publication. 576,831, June 30; Serial No. 637,173, published Apr. 7, 1953. Class 38.

Dralle, Georg, Hamburg, Germany. Perfumery. 301,897, renewed Mar. 21, 1953. O. G. June 30. Class 51.

Drueck, Alice F., doing business under the name or style of Proctology, Chicago, Ill. Publication. 576,595, June 30; Serial No. 598,838, published Apr. 7, 1953. Class 38.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Netting. 576,742, June 30; Serial No. 630,836, published Apr. 14, 1953. Class 42.

Dry, J. R., and Sons, Winters, Tex. Evaporative coolers and grilles and louvers. 576,599, June 30; Serial No. 600,471, published Apr. 14, 1953. Class 34.

Duluth-Superior Milling Company, Duluth, Minn., by Standard Milling Company, Kansas City, Mo. Wheat flour. 88,858, Oct. 29, 1912; republished June 30. Class 46.

Duncan, Donald F., assignor to Donald F. Duncan, Inc., by Donald F. Duncan, Inc., Chicago, Ill. Bandelore toy spinning tops. 298,697, Nov. 1, 1932; republished June 30. Class 22.

Duncan, Donald F., Inc.: *See*—
Duncan, Donald F.

East and West Library: *See*—
Phaidon Publishers, Inc.

Eastern States Soilbuilders, Inc., Sharpsburg, Md. Fertilizers. 576,644, June 30; Serial No. 614,761, published Mar. 31, 1953. Class 10.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic processing chemicals. 576,840, June 30; Serial No. 638,408, published Apr. 14, 1953. Class 6.

Eaton Canning Company, Eaton, Ind. Canned tomato juice, canned tomato puree, and canned pork and beans. 576,623, June 30; Serial No. 609,636, published Mar. 31, 1953. Class 46.

Enrico Roselli Accordion Company, Seattle, Wash. Accordions. 576,702–3, June 30; Serial Nos. 626,341–2, published Apr. 21, 1953. Class 36.

Everest & Jennings, Inc., Los Angeles, Calif. Invalid wheel chairs. 576,720, June 30; Serial No. 629,193, published Mar. 31, 1953. Class 44.

Famous Virginia Foods, Inc., Lynchburg, Va. Pickles, jams, jellies, mincemeat, etc. 441,232, Nov. 2, 1948; republished June 30. Class 46.

Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfurt am Main Hoechst, Germany. Weedicides, insecticides, and plant, grain, and seed disinfectants. 576,711, June 30; Serial No. 628,148, published Apr. 7, 1953. Class 6.

Farrington Manufacturing Company, Jamaica Plain, Mass. Mounted and unmounted blank printing plates. 576,688, June 30; Serial No. 624,481, published Mar 17, 1953. Class 50.

Fashion Bureau, The: *See*—
Gagen, J. Wilfrid.

Feature Ring Co., Inc., New York, N. Y. Mountings for finger rings and finger ring sets. 576,801, June 30; Serial No. 636,071, published Mar. 31, 1953. Class 28

Federated Department Stores, Inc.: *See*—
Lazarus, F. & R., & Co., The.

First Elmersel Store, Deerfield, Ill. Store and merchandising equipment, comprising an electronic merchandise selector, etc. 576,570, June 30; Serial No. 575,135, published Apr. 7, 1953. Class 26.

Fischer Industries, Inc.: *See*—
Fischer's Surfa-Saver, Inc.

Fischer's Surfa-Saver, Inc., to Fischer Industries, Inc., Cincinnati, Ohio. Saponaceous material used as an ingredient of soap. 301,948, renewed Mar. 21, 1953. O. G. June 30. Class 52.

Flavor Corporation of America, Chicago, Ill. Concentrated extracts in liquid or dry form used in flavoring food products. 576,719, June 30; Serial No. 629,159, published Apr. 7, 1953. Class 46.

Fliegelman, N., & Co., Inc., New York, N. Y. Clothing. 226,324, Apr. 5, 1927; republished June 30. Class 39.

Foderingham, Allan F., doing business as La Fodham's Products Co., Brooklyn, N. Y. Preparation for the treatment of the hair. 305,551, renewed Aug. 22, 1953. O. G. June 30. Class 51.

Foldcraft Incorporated, Minneapolis, Minn. Folding chairs and tables, and table bases. 576,792, June 30; Serial No. 635,468, published Apr. 14, 1953. Class 32.

Foote & Jenks, Inc., Jackson, Mich. Non-alcoholic, non-cereal, maltless beverages. 304,811, renewed July 18, 1953. O. G. June 30. Class 45.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 302,527, renewed Apr. 25 1953. O. G. June 30. Class 42.

Foto Koch: *See*—
Koch, Carl.

Fraternity of Phi Gamma Delta, The, Washington, D. C. Stimulation and maintenance of interest in academic and fraternal affairs, etc. 576,863, June 30; Serial No. 633,286, published Apr. 7, 1953. Class 100.

Freshie, Inc., Merced, Calif. Frozen egg whites and fresh eggs. 576,624, June 30; Serial No. 609,641, published Mar. 31, 1953. Class 46.

Frozen Farm Products, Inc., Altoona, Pa. Frozen foods. 576,774, June 30; Serial No. 634,141, published Apr. 7, 1953. Class 46.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 576,800, June 30; Serial No. 636,010, published Apr. 14, 1953. Class 42.

Gagen, J. Wilfrid, doing business as The Fashion Bureau, New York, N. Y. Printed fashion display sheets. 576,613, June 30; Serial No. 606,524, published Mar. 31, 1953. Class 38.

Gamewell Company, The, Newton, Mass. Electrical fire alarm equipment and attachments. 305,390, renewed Aug. 15, 1953. O. G. June 30. Class 21.

Gates Rubber Company, The, Denver, Colo. Garden hose. 576,838, June 30; Serial No. 638,298, published Apr. 14, 1953. Class 35.

Gebruder Junghans Aktiengesellschaft, Schramberg (Schwarzwald), Wurttemberg, Germany. Clocks and watches, and parts thereof. 576,797, June 30; Serial No. 635,827, published Apr. 14, 1953. Class 27.

Geigy Company, Inc., New York, N. Y. Spasmolytic. 576,709, June 30; Serial No. 627,571, published Apr. 7, 1953. Class 18.

General Paint & Varnish Company Inc., Chicago, Ill. Paint and varnish removers. 178,294, Jan. 8, 1924. Republished June 30. Class 52.

General Paint & Varnish Company Inc., Chicago, Ill. Flat wall finish. 178,295, Jan. 8, 1924. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Ready-mixed paints, paint enamels, and stains. 178,302, Jan. 8, 1924. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Varnishes, stains, and paint enamels. 179,148, Feb. 5, 1924. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Ready-mixed and paste paints, paint enamels, high gloss paints, etc. 350,701, Oct. 5, 1937. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Ready-mixed paints, paste paints, flat paints, etc. 360,073, Sept. 6, 1938. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Varnishes, stains, Japans, etc. 366,435, Apr. 11, 1939. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Varnishes, stains, Japans, etc. 366,441, Apr. 11, 1939. Republished June 30. Class 16.

General Paint & Varnish Company Inc., Chicago, Ill. Fuel oil conditioner. 401,770, June 9, 1943. Republished June 30. Class 15.

General Time Corporation: *See*—
Western Clock Company.

General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. 576,635, June 30; Serial No. 612,493, published Apr. 21, 1953. Class 35.

Gibson, Inc., Kalamazoo, Mich. Electronic musical instrument. 576,781, June 30; Serial No. 634,639, published Apr. 21, 1953. Class 36.

Gillette Company, The, Boston, Mass. Shampoo. 576,780, June 30; Serial No. 634,556, published Apr. 14, 1953. Class 52.

Glaser Bros., San Francisco, Calif. Smoking pipes and parts thereof and smoking pipe filters. 576,724, June 30; Serial No. 629,607, published Mar. 31, 1953. Class 8.

Globe Engineering Company, St. Louis, Mo. Sharpening, re-sharpening, salvaging, and rehabilitating cutting tools. 576,861, June 30; Serial No. 634,142, published Apr. 14, 1953. Class 103.

Golden Grain Macaroni Co., San Leandro, Calif. Alimentary paste products, dried fruits, rice, etc. 576,847, June 30; Serial No. 639,222, published Apr. 7, 1953. Class 46.

Goldfarb, Samuel J., by Perfection Frocks, Inc., New York, N. Y. Ladies' dresses and housecoats. 391,216, Oct. 28, 1941. Republished June 30. Class 39.

Goldfarb, Samuel J., by Perfection Frocks, Inc., New York, N. Y. Ladies' slacks, dresses, and combined slack-dresses. 393,193, Jan. 27, 1942. Republished June 30. Class 39.

Goldfarb, Samuel J., by Perfection Frocks, Inc., New York, N. Y. Ladies' and misses' dresses and aprons. 400,861, Apr. 6, 1943. Republished June 30. Class 39.

Goldfarb, Samuel J., by Perfection Frocks, Inc., New York, N. Y. Ladies' and misses' dresses and aprons. 403,594, Oct. 5, 1943. Republished June 30. Class 39.

Goodall-Sanford, Inc.: *See*—
Goodall Worsted Co.

Goodall Worsted Co., to Goodall-Sanford, Inc., Sanford, Maine. Men's and boys' outer wearing apparel. 306,194, renewed Sept. 12, 1953. O. G. June 30. Class 39.

Gordon, Alan N., Oklahoma City, Okla. Diamonds, finger rings, and mountings therefor. 576,679, June 30; Serial No. 623,304, published Mar. 31, 1953. Class 28.

Graflex, Inc., Rochester, N. Y. Photographic equipment, and/or photographic accessories and/or photographic supplies. 576,614, June 30; Serial No. 607,384, published Feb. 24, 1953. Class 26.

Graham Sea Food Co., Bayou La Batre, Ala. Canned seafood. 576,830, June 30; Serial No. 637,123, published Apr. 14, 1953. Class 46.

Gravymaster Company, Inc., Long Island City, N. Y. Seasoning for gravies, etc. 576,829, June 30; Serial No. 637,046, published Apr. 7, 1953. Class 46.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Detergent. 576,821, June 30; Serial No. 636,785, published Apr. 14, 1953. Class 52.

Great Lakes Carbon Corporation, New York, N. Y. Crushed and sized volcanic glass. 576,760, June 30; Serial No. 632,671, published Mar. 31, 1953. Class 1.

Gretsch, Fred., New York, to The Fred. Gretsch Mfg. Co., Brooklyn, N. Y. Violins, banjos, mandolins, etc. 41,054, re-renewed Sept. 1, 1953. O. G. June 30. Class 36.

Gretsch, Fred. Mfg. Co., The: *See*—
Gretsch, Fred.

Griscom-Russell Co., The, New York, N. Y., to The Griscom-Russell Company, Massillon, Ohio. Feed-water heaters, hot-water heaters, evaporators, etc. 92,421, re-renewed July 8, 1953. O. G. June 30. Class 34.

Griscom-Russell Company, The: *See*—
Griscom-Russell Co., The.

Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. 576,659, June 30; Serial No. 619,387, published Mar. 31, 1953. Class 27.

Guardian Glass Company, Inc., Detroit, Mich. Sheet glass. 576,585, June 30; Serial No. 593,345, published Apr. 14, 1953. Class 33.

Gulf States Salea Corporation, Birmingham, Ala. Lead pencils. 576,662, June 30; Serial No. 620,599, published Mar. 17, 1953. Class 37.

Gum Laboratories, Inc., Clifton Heights, Pa. Chewing gum. 444,779, June 30; Serial No. 515,304, published Apr. 7, 1953. Class 46.

Hall, Haas & Veasey, Ltd., Los Angeles, Calif. Fresh deciduous fruits, fresh citrus fruits, fresh grapes and fresh vegetables. 576,730, June 30; Serial No. 629,892, published Mar. 31, 1953. Class 46.

Hanson, W. T., Co., Schenectady, to W. T. Hanson Co., New York, N. Y. Corn-salve. 90,700, re-renewed Mar. 18, 1953. O. G. June 30. Class 18.

Harris, P. E., Company, Inc.: *See*—
Sanborn, George W., & Son.

Harris, William M., New York, N. Y. Pictorial advertising signs. 576,768, June 30; Serial No. 633,420, published Mar. 31, 1953. Class 38.

Harshaw Chemical Company, The, Cleveland, Ohio. Polyvalent metal salts of carboxylic acids and compositions containing the same. 576,783, June 30; Serial No. 634,848, published Apr. 14, 1953. Class 0.

Hart & Cooley Manufacturing Co., Holland, Mich. Air conditioning and furnace accessories. 576,670, June 30; Serial No. 621,554, published Mar. 31, 1953. Class 34.

Hauck, Albert E., Cincinnati, Ohio. Statues, statuettes, statuary, etc. 576,578, June 30; Serial No. 588,173, published Mar. 10, 1953. Class 50.

Hearst Corporation, The: *See*—
King Features Syndicate, Inc.

Heller, William, Incorporated, New York, N. Y. Piece goods. 576,731, June 30; Serial No. 630,133, published Apr. 14, 1953. Class 42.

Holland-Rantos Company, Inc.: *See*—
Youngs Rubber Corporation, Inc.

Hollister Canning Company, Hollister, Calif. Canned fruits. 576,653, June 30; Serial No. 616,821, published Mar. 17, 1953. Class 46.

Holman-O. D. Baker Co, Inc., East Boston, Mass. Box springs. 576,725, June 30; Serial No. 629,610, published Apr. 14, 1953. Class 32.

Holtville Vegetable Company, Holtville, Calif. Fresh melons and fresh vegetables. 576,853, June 30; Serial No. 640,634, published Apr. 14, 1953. Class 46.

Homberger-Rauschenbach, Ernest, vorm., International Watch Co. (Ernest Homberger-Rauschenbach, ci-devant International Watch Co.) Schaffhouse, Switzerland. Watch movements, cases, dials, and sheaths. 576,647, June 30; Serial No. 615,290, published Mar. 31, 1953. Class 27.

House Of Ilusion, Inc., Miami and Coral Gables, Miami, Fla. Bird seed. 576,879, June 30; Serial No. 637,254. Class 46.

Hulstkamp & Zoon & Mollijn, to Hulstkamp & Zoon & Mollijn N. V., Rotterdam, Holland. Gin. 303,211, renewed May 16, 1953. O. G. June 30. Class 49.

Hulstkamp & Zoon & Mollijn N. V.: *See*—
Hulstkamp & Zoon & Mollijn.

Huther Brothers Saw Manufacturing Company, Rochester, N. Y. Saws. 113,738, Oct. 31, 1916. Republished June 30. Class 23.

Imperial Chemical (Pharmaceuticals) Limited, London, England, assignor to American Home Products Corporation, New York, N. Y. Pharmaceutical and veterinary preparations. 576,695, June 30; Serial No. 625,603, published Mar. 31, 1953. Class 18.

Imperial Sugar Company, Sugar Land, Tex. Small cubes of cane sugar. 576,576, June 30; Serial No. 587,033, published Apr. 14, 1953. Class 46.

Indie Sales, Inc., New York, N. Y. Acting as independent agent in connection with the advertising and sale of radio broadcasting time. 576,857, June 30; Serial No. 612,914, published Apr. 7, 1953. Class 101.

Industria Quimica Farmacéutica Vir, S. A., Madrid, Spain. Pharmaceutical preparation. 576,673, June 30; Serial No. 622,719, published Mar. 31, 1953. Class 18.

Industrial Models: *See*—
Bowen, Hardy J.

Industrial Research Laboratories, Houston, Tex. Chemical preparation. 576,632, June 30; Serial No. 612,371, published Apr. 21, 1953. Class 6.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Liquid composition for regulating acid ("pickle") baths. 576,852, June 30; Serial No. 640,281, published Apr. 21, 1953. Class 6.

International Affiliated Corporation, Wilmington, Del. Penicillin ointment. 576,793, June 30; Serial No. 635,654, published Mar. 31, 1953. Class 18.

Interstate Bakeries Corporation: *See*—
Sisco-Hamilton Co.

International Paint Company, Inc., New York, N. Y. Ready-mixed paints and tinting colors. 576,658, June 30; Serial No. 618,797, published Apr. 14, 1953. Class 16.

Interstate Bakeries Corporation, Kansas City, Mo., doing business as Schulze Baking Company, Chicago, Ill., Cincinnati, Ohio, Omaha, Nebr., and elsewhere. Bakery products. 576,845, June 30; Serial No. 639,116, published Apr. 7, 1953. Class 46.

Interstate Publishing Corp., New York, N. Y. Magazine. 576,818, June 30; Serial No. 636,711, published Apr. 7, 1953. Class 38.

Iodine Educational Bureau, Inc., to Chilean Nitrate Sales Corporation, New York, N. Y. Isotonic solution of iodine. 305,850, renewed Aug. 29, 1953. O. G. June 30. Class 18.

Irvins', J. S., Son, Inc., Philadelphia, assignor to Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa. Cookies, wafers, and crackers. 576,560, June 30; Serial No. 630,530, published Apr. 14, 1953. Class 46.

Jackson, Byron, Co., Vernon, Calif. Pumps, shaft bearings, and parts thereof. 570,537, Feb. 17, 1953. Corrected. O. G. June 30. Class 23.

Jacobs Bros.: *See*—
Jacobs, S. Joe.

Jacobs, S. Joe, doing business under the name and style of Jacobs Bros., Philadelphia, Pa. Gauge for setting and adjusting thermostatic controls. 576,645, June 30; Serial No. 614,780, published Feb. 24, 1953. Class 26.

Jay's Laboratories: *See*—
Staber, Grace C.

Jenny Watch G. m. b. H., Basel, Switzerland. Watches and parts of watches. 576,607, June 30; Serial No. 604,697, published Apr. 14, 1953. Class 27.

Johnson-Carper Furniture Company, Inc., Roanoke, Va. Bedroom furniture. 576,785, June 30; Serial No. 635,088, published Apr. 14, 1953. Class 32.

Johnston, J. McLean, Philadelphia, Pa. Golf gloves. 576,826, June 30; Serial No. 636,893, published Apr. 14, 1953. Class 22.

Judy Company, The, Minneapolis, Minn. Extendible figure toys. 576,806, June 30; Serial No. 636,237, published Apr. 7, 1953. Class 22.

K & J Co., Brooklyn, N. Y. Preparation for reconditioning the hair. 576,740, June 30; Serial No. 630,783, published Apr. 14, 1953. Class 51.

Kahle Horizontal Fish Hook Co.: *See*—
Kahle, Victor C.

Kahle, Victor C., doing business as Kahle Horizontal Fish Hook Co., South St. Paul, Minn. Fish hooks. 576,581, June 30; Serial No. 589,658, published Apr. 14, 1953. Class 22.

Kearney, James R., Corporation, St. Louis, Mo. Hydraulic oils. 576,681, June 30; Serial No. 623,967, published Apr. 14, 1953. Class 15.

Kellogg, Spencer, and Sons, Inc., Buffalo, N. Y. Viscous fatty acid esters. 576,705, June 30; Serial No. 626,833, published Apr. 14, 1953. Class 6.

Kenyon Piece Dyeworks, Inc., The, Kenyon, R. I. Piece goods. 576,741, June 30; Serial No. 630,784, published Apr. 14, 1953. Class 42.

Keystone Broadcasting System, Inc., Chicago, Ill. Selling of advertising time on radio broadcasting stations. 576,855, June 30; Serial No. 600,289, published Apr. 7, 1953. Class 101.

Keystone Dehydrators, Nazareth, Pa. Dehydrated alfalfa. 576,740, June 30; Serial No. 631,294, published Apr. 7, 1953. Class 46.

Keystone Refractories Company, New York, N. Y. Furnace mortar. 180,051, Feb. 19, 1924. Republished June 30. Class 12.

Keystone Refractories Company, New York, N. Y. Ganister. 180,145, Feb. 26, 1924. Republished June 30. Class 12.

King Features Syndicate, Inc., to The Hearst Corporation, New York, N. Y. Cartoons. 306,019, renewed Sept. 5, 1953. O. G. June 30. Class 38.

King Features Syndicate, Inc., to The Hearst Corporation, New York, N. Y. Column or section of a newspaper. 306,203, renewed Sept. 12, 1953. O. G. June 30. Class 38.

Koch, Carl, doing business as Foto Koch, Schaffhausen, Switzerland. Photographic apparatus. 576,707, June 30; Serial No. 627,071, published Feb. 24, 1953. Class 26.

Krispy Kernels, Inc., Newark, N. J. Salted nuts. 576,579, June 30; Serial No. 588,302, published Apr. 7, 1953. Class 46.

Kruse Nurseries: *See*—
Owen, James W.

La Fodham's Products Co.: *See*—
Foderingham, Allan F.

Lambeth Woolens, Inc., New York, N. Y. Woolen fabrics. 576,827, June 30; Serial No. 636,987, published Apr. 14, 1953. Class 42.

Lanificio Basilio Bona: *See*—
Bona, Emanuele.

Lanning, J. Clair, Lincoln, Nebr. Food chips. 576,862, June 30; Serial No. 616,428, published Apr. 7, 1953. Class 46.

La Pasta De Mesilla, La Mesilla, N. Mex. Enchiladas, Mexican candy, green chili sauce, etc. 576,580, June 30; Serial No. 588,866, published Apr. 7, 1953. Class 46.

La Union Agricola Sociedad Anonima, Barcelona, Spain, to Chartreuse Corporation, New York, N. Y. Liqueurs. 93,543, re-renewed Sept. 23, 1953. O. G. June 30. Class 49.

Lazarus, F. & R., & Co., The, Columbus, to Federated Department Stores, Inc., Cincinnati, Ohio. Men's and women's hosiery. 90,645, re-renewed Mar. 11, 1953. O. G. June 30. Class 39.

Lederwarenfabrik Kritzler K. G., Rebbelroth, Cologne, Germany. Camera cases, fitted cases designed for photographic accessories, etc. 576,798, June 30; Serial No. 635,837, published Apr. 7, 1953. Class 26.

Lee, H. D., Company, Incorporated: *See*—
Lee, H. D., Mercantile Co., The.

Lee, H. D., Mercantile Co., The, to The H. D. Lee Company, Incorporated, Kansas City, Mo. Work clothing. 306,214, renewed Sept. 12, 1953. O. G. June 30. Class 39.

Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Gasoline hose, distillate hose, tank wagon hose, etc. 576,749, June 30. Serial No. 631,429, published Apr. 21, 1953. Class 35.

Leonards & Lee Sales Co., Chicago, Ill. Binoculars. 576,683, June 30; Serial No. 624,141, published Apr. 7, 1953. Class 26.

Lever Brothers Company, New York, N. Y. Eau de cologne. 576,712, June 30; Serial No. 628,408, published Mar. 31, 1953. Class 51.

Lever Brothers Company, New York, N. Y. Eau de cologne. 576,713–16, June 30; Serial Nos. 628,410–13, published Mar. 31, 1953. Class 51.

Le Vibrion Aktiebolag, Stockholm, Sweden. Orthopedic arch supports. 576,093, June 30; Serial No. 625,479, published Apr. 7, 1953. Class 44.

Levow, David, New York, N. Y. Roofing equipment. 576,636, June 30; Serial No. 612,502, published Mar 17, 1953. Class 34.

Lewis, Florence N., doing business as Elisabeth Arden, by Elisabeth Arden Sales Corporation, New York, N. Y. Astringent. 205,534, Nov. 10, 1925. Republished June 30. Class 51.

Lewis, Florence N., doing business as Elisabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Liquid and cream rouge. 205,535, Nov. 10, 1925. Republished June 30. Class 51.

Lezor Corporation, New York, N. Y. Packaged rice. 576,718, June 30; Serial No. 628,862, published Apr. 7, 1953. Class 46.

Libbey-Owens-Ford Glass Company: *See*—
Vitrolite Company, The.

Lord & Burnham: *See*—
Burnham Corporation.

Lowell Needle Company, Inc., Boston, Mass. and Putnam, Conn., assignor to The Putnam Needle Company, Putnam, Conn. Phonograph needles. 576,562, June 30; Serial No. 548,271, published Apr. 21, 1953. Class 36.

Lundstrom Laboratories, Inc., Herkimer, N. Y. Wood furniture components. 576,563, June 30; Serial No. 563,857, published Apr. 7, 1953. Class 32.

Lupomatic Industries, Inc., New York, N. Y., now by change of name Tumb-L-Matic, Inc. Machines for tumbling, burnishing, and otherwise finishing metals, etc. 576,590, June 30; Serial No. 596,103, published Jan. 9, 1951. Class 23.

Mackall Products Co.: *See*—
Saleen, John C.

Macon Umbrella Corporation, New York, N. Y. Beach and garden umbrellas. 576,772, June 30; Serial No. 633,991, published Apr. 14, 1953. Class 32.

Mangelsdorf, Ed. F., & Bro. Inc.: *See*—
Mangelsdorf, Ed. F., & Brother.

Mangelsdorf, Ed. F., & Brother, to Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo. Field seeds and grain seeds. 302,640, renewed Apr. 25, 1953. O. G. June 30. Class 1.

Marine Optical Manufacturing Co., Boston, Mass. Optical frames. 576,690, June 30; Serial No. 624,606, published Feb. 24, 1953. Class 26.

Martinez, J. M.: *See*—
Patterson, W. G., Brokerage Co., Inc.

Masonite Corporation, Chicago, Ill., and Laurel, Miss. Construction board. 576,686, June 30; Serial No. 624,282, published Mar. 31, 1953. Class 12.

Mathiesen Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

May Department Stores Company, The, St. Louis, Mo. Blankets. 302,538, renewed Apr. 25, 1953. O. G. June 30. Class 42.

McCloskey Varnish Co., Philadelphia, Pa. Penetrating wood floor finishes. 576,643, June 30; Serial No. 614,258, published Apr. 7, 1953. Class 16.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparation. 576,619, June 30; Serial No. 608,166, published May 13, 1952. Class 18.

Meat Industry Suppliers, Inc., Chicago, Ill. Cure for bacon. 576,816, June 30; Serial No. 636,533, published Apr. 14, 1953. Class 46.

Meb Export Co., Inc., New York, N. Y. Cotton piece goods. 576,783, June 30; Serial No. 632,891, published Dec. 9, 1952. Class 42.

Meb Export Co., Inc., New York, N. Y. Cotton piece goods. 576,694, June 30; Serial No. 625,536, published Dec. 9, 1952. Class 42.

Melachrino, M., & Co., assignor to M. Melachrino & Co., Incorporated, to The American Tobacco Company, New York, N. Y. Cigarettes. 91,589, re-renewed May 13, 1953. O. G. June 30. Class 17.

Melachrino, M., & Co., assignor to M. Melachrino & Co., Incorporated, to The American Tobacco Company, New York, N. Y. Cigarettes. 91,678, re-renewed May 20, 1953. O. G. June 30. Class 17.

Melachrino, M., & Co., Incorporated, assignee: *See*—
Melachrino, M., & Co.

Meridian Distributors: *See*—
Biddle Purchasing Company.

Merrick Medicine Co., The: *See*—
Merrick Medicine Company.

Merrick Medicine Company, also doing business as The Merrick Medicine Co., Waco, Tex. Astringent for sour stomach, heartburn, acid eructations, etc. 576,770, June 30; Serial No. 633,731, published Mar. 31, 1953. Class 18.

Miller Brewing Company: *See*—
Miller High Life Company.

Miller High Life Company, to Miller Brewing Company, Milwaukee, Wis. Beer. 305,854–5, renewed Aug. 29, 1953. O. G. June 30. Class 48.

Miller High Life Company, to Miller Brewing Company, Milwaukee, Wis. Beer. 305,871, renewed Aug. 29, 1953. O. G. June 30. Class 48.

Miller and Rhoads, Incorporated, Richmond, Va. China tableware, earthenware, tableware and pottery tableware. 576,676, June 30; Serial No. 623,110, published Mar. 31, 1953. Class 30.

Miller and Rhoads, Incorporated, Richmond, Va. Machine-made and handmade glassware sets and individual glass pieces. 576,677, June 30; Serial No. 623,113, published Apr. 14, 1953. Class 33.

"Minex" Centrala Eksportowo-Importowa Wytworow Przemyslu Mineralnego Przedsiebiorstwo Panstwowe, Warsaw, Poland. Crystal table ware. 576,734, June 30; Serial No. 630,366, published Apr. 14, 1953. Class 33.

Minnesota Macaroni Company, St. Paul, Minn. Macaroni. 576,839, June 30; Serial No. 638,306, published Apr. 14, 1953. Class 46.

Miron Mills, Inc., Clinton, Mass. Wool fabrics. 576,809–10, June 30; Serial No. 636,300–1, published Apr. 14, 1953. Class 42.

Mitteldorfer Straus, Inc., New York, N. Y. Pottery. 576,605, June 30; Serial No. 603,539, published Mar. 25, 1952. Class 30.

Mixing Equipment Co., Inc., Rochester, N. Y. Fluid agitating and mixing devices. 402,708, Aug. 10, 1943. Republished June 30. Class 23.

Mixing Equipment Co., Inc., Rochester, N. Y. Mixing equipment. 407,155, May 23, 1944. Republished June 30. Class 23.

Mlapsh Toy & Novelty Co.: *See*—
Passarelli, Frank.

Modern Optics, Incorporated, Houston, Tex. Ophthalmic lenses and lens blanks. 576,717, June 30; Serial No. 628,707, published Mar. 17, 1953. Class 26.

Mofussil Development Corporation Limited, The, Ayr, Scotland. Sanitary preparations for use in connection with sanitary closets. 576,684, June 30; Serial No. 624,241, published Apr. 14, 1953. Class 6.

Monterey Canning Co., Monterey, Calif. Canned sardines. 576,608, June 30; Serial No. 604,919, published Mar. 10, 1953. Class 46.

Montgomery Bros., Inc., Philadelphia, Pa. Rubber cements and industrial adhesives. 576,795, June 30; Serial No. 635,708, published Apr. 21, 1953. Class 5.

Morey Mercantile Company, Denver, Colo. Baking-powder. 90,857, re-renewed Mar. 25, 1953. O. G. June 30. Class 46.

Mor-Pak Preserving Corporation, San Francisco, Calif. Canned fruits and canned vegetables. 576,639, June 30; Serial No. 613,600, published Apr. 7, 1953. Class 46.

Mortens Studio, The, Chicago, Ill. Miniature animal figurines. 576,710, June 30; Serial No. 628,117, published Mar. 10, 1953. Class 50.

Multigraph Company, Wilmington, Del., and Cleveland, Ohio, to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing ink. 305,209, renewed Aug. 8, 1953. O. G. June 30. Class 11.

Muralo Company, Inc., The, New Brighton, Staten Island, N. Y. Calcimine in dry powder form. 576,561, June 30; Serial No. 546,313, published Apr. 7, 1953. Class 16.

Nash, C. A., & Son, Inc., Norfolk, Va. Paint-pigments, colors in oil, dry colors, etc. 144,614, July 12, 1921. Republished June 30. Classes 12 and 16.

National City Bank of New York, The, New York, N. Y. Books, bulletins, periodical publications, etc. 576,617, June 30; Serial No. 607,717, published Apr. 7, 1953. Class 38.

National Company, Inc., Malden, Mass. Plug-in inductances and forms for the same. 306,287, renewed Sept. 12, 1953. O. G. June 30. Class 21.

National Distillers Products Corporation, New York, N. Y. Cartoons or comic strips. 576,689, June 30; Serial No. 624,559, published Mar. 31, 1953. Class 38.

National Distillers Products Corporation, New York, N. Y. Insecticides. 576,788, June 30; Serial No. 635,192, published Apr. 14, 1953. Class 6.

National Glaco Chemical Corporation, Chicago, Ill. Coating composition for application to surfaces of processing equipment. 576,612, June 30; Serial No. 606,026, published Apr. 21, 1953. Class 6.

National Paper Box Manufacturers Association, Incorporated, Philadelphia, Pa. Collection, analysis, and dissemination in statistical form of information on the economic condition and progress of the industry, etc. 576,856, June 30; Serial No. 604,214, published Apr. 7, 1953. Class 101.

National Plastics, Inc., Knoxville, Tenn. Lubricant. 576,697, June 30; Serial No. 625,860, published Apr. 14, 1953. Class 15.
National Sales, Inc., Wichita, Kans. Grease guns. 576,865, June 30; Serial No. 576,712. Class 23.
National Silicone Products Co.: *See*—
Bolling, R. S.
National Silver Company, New York, N. Y. Ceramic dinnerware. 576,754, June 30; Serial No. 631,884, published Mar. 31, 1953. Class 30.
New York Herald Tribune Inc., New York, N. Y. Newspaper column. 576,802, June 30; Serial No. 636,088, published Mar. 31, 1953. Class 38.
New York Herald Tribune Inc., New York, N. Y. Comic strip. 576,804, June 30; Serial No. 636,144, published Mar. 31, 1953. Class 38.
New York World-Telegram Corporation, New York, N. Y. Periodical. 305,467, renewed Aug. 15, 1953. O. G. June 30. Class 38.
News-Week Inc., to Weekly Publications, Inc., New York, N. Y. Weekly magazine. 305,331, renewed Aug. 15, 1953. O. G. June 30. Class 38.
Nicholson, J. & W., & Co. Limited, London, England. Whiskey and other potable distilled liquors. 305,798, renewed Aug. 22, 1953. O. G. June 30. Class 49.
Northrop Aircraft, Inc., Hawthorne, Calif., assignor to Bendix Aviation Corporation, New York, N. Y. Electronic computers and parts thereof. 576,621, June 30; Serial No. 609,413, published Feb. 24, 1953. Class 26.
Nulomoline Company, The, to American Molasses Company, New York, N. Y. Sugar. 303,103, renewed May 9, 1953. O. G. June 30. Class 46.
Nutrena Mills, Inc., Kansas City, Kans., by Nutrena Mills, Inc., Minneapolis, Minn. Animal feeds. 373,153, Nov. 28, 1939. Republished June 30. Class 46.
Nu-Way Products Company: *See*—
Sullivan, Otha F.
Oklahoma Fertilizer & Chemical Co., Oklahoma City, Okla. Fertilizers. 576,815, June 30; Serial No. 636,488, published Apr. 7, 1953. Class 10.
Olive Oil Industry, Inc.: *See*—
Capone, A. J., Company.
Otis Elevator Company, New York, N. Y. Vehicular chassis dynamometers. 576,565, June 30; Serial No. 584,735, published Feb. 24, 1953. Class 26.
Owen, James W., doing business under the name Kruse Nurseries, Bloomington, Ill. Plant food. 576,704, June 30; Serial No. 626,636, published Apr. 7, 1953. Class 10.
Panoma Corporation, Amarillo, Tex. Gasoline and lubricating oils. 576,743, June 30; Serial No. 630,948, published Mar. 31, 1953. Class 15.
Parker, Stearns & Company, New York and Brooklyn, to Parker, Stearns & Company, New York, N. Y. Syringes, water-bottles, catheters, etc. 91,241, re-renewed Apr. 22, 1953. O. G. June 30. Class 44.
Passarelli, Frank, doing business under the name Mispah Toy & Novelty Co., Mispah, N. J. Toy animals. 576,641, June 30; Serial No. 614,007, published Apr. 14, 1953. Class 22.
Patterson, W. G., Brokerage Co., Inc., doing business under the name and style of J. M. Martinez, Birmingham, Ala. Cigars. 576,757, June 30; Serial No. 632,174, published Mar. 31, 1953. Class 17.
Pease, C. F., Company, The, Chicago, Ill. Arclamp globes of glass. 302,370, renewed Apr. 18, 1953. O. G. June 30. Class 34.
Peck's Products Company, St. Louis, Mo. Powdered soap, flaked soap, bar soap, etc. 576,751, June 30; Serial No. 631,565, published Apr. 14, 1953. Class 52.
Pelron Corporation, Lyons, Ill. Paint strippers, cleaning compounds of general application and compounds for cleaning metals, etc. 576,782, June 30; Serial No. 634,753, published Apr. 14, 1953. Class 52.
Pemaco Incorporated, Los Angeles, Calif. Industrial chemicals, namely cutting oils. 576,733, June 30; Serial No. 630,282, published Apr. 7, 1953. Class 15.
Penick, S. B., & Company, New York, N. Y. Synergized ryania concentrate. 576,600, June 30; Serial No. 601,370, published Apr. 14, 1953. Class 6.
Pepperell Manufacturing Company, Boston, Mass. Blankets. 576,637, June 30; Serial No. 612,701, published Apr. 14, 1953. Class 42.
Perfection Frocks, Inc.: *See*—
Goldfarb, Samuel J.
Perma-Rock Products, Inc., Baltimore, Md. Soil conditioner. 576,747, June 30; Serial No. 631,306, published Mar. 31, 1953. Class 10.
Permatex Company, Inc.: *See*—
Benott, Constant.
Phaidon Publishers, Inc., known by the name of East and West Library, New York, N. Y. Books. 576,566, June 30; Serial No. 568,752, published Apr. 7, 1953. Class 38.
Pickwick Products Company, Elgin, Ill. Antiseptic composition. 576,873, June 30; Serial No. 627,147. Class 18.
Pierce, MacNeel, doing business as Plastic and Rubber Products Company, Los Angeles, Calif. Hydraulic packing compounds. 576,761, June 30; Serial No. 632,848, published Apr. 14, 1953. Class 35.
Pilley, Frank, & Sons, Inc.: *See*—
Borden Quality, Inc.
Borden's Produce Company, Inc.
Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 576,591, June 30; Serial No. 596,191, published Mar. 31, 1953. Class 46.
Plastic and Rubber Products Company: *See*—
Pierce, MacNeel.
Portable Air Cooler and Heater, Inc., Chico, Calif. Portable, water evaporative type air coolers and heaters. 576,698, June 30; Serial No. 625,918, published Mar. 17, 1953. Class 34.
Post Printing and Publishing Company, The, Denver, Colo. Weekly comic section. 576,796, June 30; Serial No. 635,714, published Mar. 24, 1953. Class 38.
Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruit cocktail, canned fruits and vegetables, canned fruit and vegetable juices, etc. 576,874, June 30; Serial No. 627,355. Class 46.
Process Chemicals Company, Los Angeles, Calif. Organic compounds. 576,728, June 30; Serial No. 629,688, published Apr. 7, 1953. Class 6.
Process Chemicals Company, Los Angeles, Calif. Primary, secondary, tertiary, and quaternary amines. 576,729, June 30; Serial No. 629,890, published Apr. 7, 1953. Class 6.
Procter & Gamble Company, The, Cincinnati, Ohio. Edible cocoanut oil. 576,646, June 30; Serial No. 615,191, published Mar. 17, 1953. Class 46.
Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser, and detergent. 576,691, June 30; Serial No. 624,969, published Apr. 14, 1953. Class 52.
Proctology: *See*—
Drueck, Alice F.
Products of Cedar Cottage Limited, Vancouver, British Columbia, Canada. Candles. 576,737, June 30; Serial No. 630,880, published Apr. 7, 1953. Class 15.
Puritan Company, Incorporated, Rochester, N. Y. Anti-freeze solution, and fluid mixture for use in hydraulic brake systems. 576,588, June 30; Serial No. 572,765, published July 25, 1950. Class 6.
Putman Needle Company, The, assignee: *See*—
Lowell Needle Company, Inc.
Rail Steel Bar Association, Chicago, Ill. Technical and promotional bulletins and literature. 576,626, June 30; Serial No. 610,632, published Apr. 7, 1953. Class 38.
Read Standard Corporation: *See*—
Standard Stoker Company, Inc., The.
Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions containing the same for bonding, laminating and adhesive purposes. 576,833, June 30; Serial No. 637,209, published Apr. 14, 1953. Class 5.
Reinhart, Paul, Co., Inc., New York, N. Y. Frozen fish and frozen fish fillets. 576,748, June 30; Serial No. 631,375, published Apr. 7, 1953. Class 46.
Republic Rubber Division: *See*—
Lee Rubber & Tire Corporation.
Republic Steel Corporation, doing business as Toncan Culvert Manufacturers Association, Youngstown, to Republic Steel Corporation, Cleveland, Ohio. Road and highway guards and parts thereof. 305,049, renewed July 25, 1953. O. G. June 30. Class 12.
Rexall Drug Company, Los Angeles, Calif. Watches. 576,786, June 30; Serial No. 635,098, published Apr. 14, 1953. Class 27.
Rice Growers Association of California, Sacramento, Calif. Rice. 576,587, June 30; Serial No. 594,994, published Feb. 27, 1951. Class 46.
Rieke Metal Products Corporation, Auburn, Ind. Gaskets. 576,854, June 30; Serial No. 641,520, published Apr. 21, 1953. Class 35.
Risso, John, Company, to "Rizzo's Fine Foods," Benton Harbor, Mich. Canned vegetables, canned beans and pork, etc. 562,451, July 29, 1952. New certificate. O. G. June 30. Class 46.
"Rizzo's Fine Foods": *See*—
Rizzo, John, Company.
Rodania Ltd. (Rodania S. A.), Grenchen, Switzerland. Watches and parts of watches. 576,776, June 30; Serial No. 634,267, published Mar. 31, 1953. Class 27.
Roper, Geo. D., Corporation, Rockford, Ill. Ignition system for gas stoves and ranges. 576,638, June 30; Serial No. 612,873, published Mar. 17, 1953. Class 34.
Ross & Ross, Oakland, Calif. Stuffed toy dogs. 576,773, June 30; Serial No. 634,056, published Mar. 24, 1953. Class 22.
Rubinstein, Helena, Inc., New York, N. Y. Beauticians' services. 576,858, June 30; Serial No. 614,958, published Apr. 14, 1953. Class 100.
Russell Manufacturing Company, The, Alexander City, Ala. Piece goods. 576,657, June 30; Serial No. 618,101, published Apr. 14, 1953. Class 42.
Ryerson, Joseph T., & Son, Inc., to Joseph T. Ryerson & Son, Inc., Chicago, Ill. Machinery bearings and bearing collars. 302,010, renewed Mar. 21, 1953. O. G. June 30. Class 23.
S. M. S. Textile Mills, Allentown, Pa. Woven elastic textile fabric. 576,844, June 30; Serial No. 638,932, published Apr. 14, 1953. Class 42.
Sacred Records, Inc., Los Angeles, Calif. Mechanically grooved phonograph records. 576,867, June 30; Serial No. 608,325. Class 36.
Safeway Stores, Incorporated, Oakland, Calif. Scouring powder. 576,708, June 30; Serial No. 627,419, published Apr. 14, 1953. Class 4.
Sage Laboratories, Inc., New York, N. Y. Cleaning preparation. 576,604, June 30; Serial No. 602,718, published Apr. 21, 1953. Class 52.
Saleen, John C., doing business as Mackall Products Co., El Monte, Calif. Bird seed. 576,807, June 30; Serial No. 636,255, published Apr. 14, 1953. Class 46.

Sanborn, George W., & Son, Astoria, Oreg., to P. E. Harris Company, Inc., Seattle, Wash. Canned salmon. 93,118, re-renewed Aug. 19, 1953. O. G. June 30. Class 46.
Sazony Watch Co., New York, N. Y. Watches. 576,813, June 30; Serial No. 636,436, published Apr. 14, 1953. Class 27.
Schnyder, Edward, Zurich, Switzerland. Perfumes. 576,572, June 30; Serial No. 580,950, published Apr. 14, 1953. Class 51.
Sebulze Baking Company: *See*—
Interstate Bakeries Corporation.
Scott, Eben L., Kansas City, Mo. Tiltably supported ridable toy. 576,876, June 30; Serial No. 632,852. Class 22.
Seaboard Rice Milling Co., Galveston, to Comet Rice Mills, Houston, Tex. Cereal breakfast food. 92,589, re-renewed July 15, 1953. O. G. June 30. Class 46.
Seaboard Seed Company, Philadelphia, Pa. Farm and lawn seed. 576,687, June 30; Serial No. 624,362, published Mar. 31, 1953. Class 1.
Seeman Brothers to Seeman Brothers, Inc., New York, N. Y. Coffee. 91,039, re-renewed Apr. 8, 1953. O. G. June 30. Class 46.
Seeman Brothers, Inc.: *See*—
Seeman Brothers.
Secpa & Paglia, Providence, R. I. Ointment. 576,618, June 30; Serial No. 607,764, published Mar. 31, 1953. Class 18.
Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. 576,631, June 30; Serial No. 612,092, published Apr. 14, 1953. Class 32.
Servo Corporation of America, New Hyde Pack, N. Y. Universal mounting means—namely, a stand specially adapted for mounting testing apparatus, etc. 576,585, June 30; Serial No. 592,005, published Feb. 24, 1953. Class 26.
Sévi S. A. (Joias e Relogios), Rio de Janeiro, Brazil. Watches, clocks, and chronometers. 576,723, June 30; Serial No. 629,302, published Apr. 14, 1953. Class 27.
Sewall Paint & Varnish Company, Kansas City, Mo., by American-Marietta Company, Chicago, Ill. Paints. 416,995, Oct. 9, 1945. Republished June 30. Class 16.
Shaffco, Inc., New York, N. Y. Reproductions of 18th and 19th century furniture. 576,598, June 30; Serial No. 599,595, published Apr. 14, 1953. Class 32.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin preparation. 576,756, June 30; Serial No. 632,049, published Mar. 31, 1953. Class 18.
Sharpe Instruments Limited, Toronto, Ontario, Canada. Hand warmers. 576,672, June 30; Serial No. 621,843, published Mar. 17, 1953. Class 34.
Shuron Optical Company, Inc., to Shuron Optical Company, Inc., Geneva, N. Y. Spectacles, eyeglasses, and parts thereof. 302,337, renewed Apr. 11, 1953. O. G. June 30. Class 26.
Silicote Corporation, The, assignee: *See*—
Bolling, R. S.
Silicote Corporation, The, Oshkosh, Wis. Chemically treated polishing cloths. 576,588, June 30; Serial No. 595,163, published Apr. 1, 1952. Class 29.
Simmons, Pearl M., doing business as Ardoil Products, Chicago, Ill. Ointment. 576,660, June 30; Serial No. 620,071, published Mar. 31, 1953. Class 18.
Singer Manufacturing Company, The, Elizabeth, N. J. Engineering and consulting services to the needle-trade industries. 576,860, June 30; Serial No. 629,697, published Apr. 7, 1953. Class 100.
Sisco-Hamilton Co., Chicago, Ill., to Interstate Bakeries Corporation, Kansas City, Mo. Candy. 367,193, May 9, 1939. New certificate. O. G. June 30. Class 46.
Smith, Chester W., Detroit, Mich. Surface active industrial cleaning solution. 576,601, June 30; Serial No. 601,471, published Apr. 21, 1953. Class 52.
Smith, L. C., & Corona Typewriters, Inc., New York, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Typewriting machines. 302,000, renewed Mar. 21, 1953. O. G. June 30. Class 23.
Smith, Verle C., doing business as Surgeons Lotion Laboratories, Tulsa, Okla. Astringent lotion. 576,630, June 30; Serial No. 611,918, published Nov. 25, 1952. Class 18.
Snohomish County Berry Growers Association, Marysville, Wash. Strawberry and raspberry preserves, and fresh frozen strawberries and raspberries. 576,699, June 30; Serial No. 626,056, published Mar. 17, 1953. Class 46.
Société Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie, Le Sentier, Switzerland. Watches and parts thereof, watch movements, watch-cases. 576,597, June 30; Serial No. 599,270, published Apr. 7, 1953. Class 27.
South-Western Publishing Co., Cincinnati, Ohio. Textbooks and completely printed student testing and practice publications. 576,610, June 30; Serial No. 605,333, published Apr. 7, 1953. Class 38.
Speedy Washer Manufacturing Co., Miami, Fla. Washing machines. 576,871, June 30; Serial No. 623,288. Class 24.
Spencer Chemical Company, Kansas City, Mo. Weed killer. 576,837, June 30; Serial No. 638,221, published Apr. 14, 1953. Class 6.
Sprague Meter Company, Bridgeport, Conn. Gas meters and combination gas meters and regulators, etc. 576,706, June 30; Serial No. 626,834, published Mar. 31, 1953. Class 26.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Antibacterial preparation. 576,594, June 30; Serial No. 598,506, published Mar. 31, 1953. Class 18.
Staber, Grace C., doing business as Jay's Laboratories, Calif. Hair waving cream. 374,935, Jan. 30, 1940. Republished June 30. Class 51.
Staber's For Beauty: *See*—
Staber, Grace C.
Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation. Coated drab paper liners. 576,593, June 30; Serial No. 598,121, published Mar. 10, 1953. Class 50.
Standard Milling Company: *See*—
Duluth-Superior Milling Company.
Standard Packaging Corporation: *See*—
Standard Cap and Seal Corporation.
Standard Pharmaceutical Co., Inc., New York, N. Y. Antipyretic and spasmolytic preparations and pharmaceutical preparations. 576,790, June 30; Serial No. 635,330, published Mar. 31, 1953. Class 18.
Standard Stoker Company, Inc., The, New York, N. Y., now by change of name Read Standard Corporation. Axial flow positive displacement blowers. 576,627, June 30; Serial No. 610,720, published Apr. 7, 1953. Class 34.
Stanley Home Products, Inc., Westfield, Mass. Permanent wave kits. 576,606, June 30; Serial No. 604,402, published Mar. 31, 1953. Class 44.
Stark Bro's Nurseries & Orchards Co., Louisiana, Mo. Fruit-trees, fruit-plants, and hardy ornamentals. 92,282, re-renewed June 24, 1953. O. G. June 30. Class 1.
Stein, Hall & Company, Inc., New York, N. Y. Liquid glues. 576,822, June 30; Serial No. 636,816, published Apr. 14, 1953. Class 5.
Stein, S., & Co., Inc., New York, N. Y. Piece goods. 576,775, June 30; Serial No. 634,221, published Dec. 30, 1952. Class 42.
Stewart Paint Manufacturing Company, Minneapolis, Minn. Penetrating floor oil and paint reinforcing oil. 576,571, June 30; Serial No. 575,724, published Apr. 7, 1953. Class 16.
Stewart-Warner Corporation, Chicago, Ill. Additive for motor oil. 576,625, June 30; Serial No. 610,150, published Apr. 7, 1953. Class 15.
Stockett, Wiley T., Jr., Mesa, Ariz. Power driven log stop and kicker and log turner apparatus. 576,870, June 30; Serial No. 621,914. Class 23.
Stuhler, Joseph F., doing business as Die Craft Card & Stationery Co., Chicago, Ill. Engraved greeting cards. 576,764, June 30; Serial No. 634,872, published Apr. 7, 1953. Class 38.
Sullivan, Otha F., doing business as Nu-Way Products Company, Bristow, Okla. Bleach and bluing. 576,836, June 30; Serial No. 637,797, published Apr. 21, 1953. Class 6.
Sun Chemical Corporation: *See*—
Warwick Chemical Company.
Sun Chemical Corporation, Long Island City, N. Y. Siliceous material. 576,750, June 30; Serial No. 631,504, published Apr. 14, 1953. Class 6.
Superior Sewing Machine and Supply Corp., New York, N. Y. Leather belting. 576,843, June 30; Serial No. 638,883, published Apr. 14, 1953. Class 35.
Supurdisplay, Incorporated, Milwaukee, Wis. Butter dispensing apparatus for the measurement and dispensing of servings of melted butter or like substances. 576,661, June 30; Serial No. 620,444, published Mar. 31, 1953. Class 26.
Surgeons Lotion Laboratories: *See*—
Smith, Verle C.
Suzette Bakers: *See*—
Zion Industries, Inc.
Svenska Ackumulator Aktiebolaget Jungner, Stockholm, Sweden. Electrical instruments especially for measuring or regulating purposes. 576,665, June 30; Serial No. 621,111, published Apr. 14, 1953. Class 26.
Swift & Company, Chicago, Ill. Glue. 576,620, June 30; Serial No. 600,383, published Oct. 30, 1951. Class 5.
Swift & Company, Chicago, Ill. Plant food. 576,668, June 30; Serial No. 621,485, published Mar. 31, 1953. Class 10.
Swift & Company, Chicago, Ill. Periodical publication. 576,812, June 30; Serial No. 636,390, published Mar. 31, 1953. Class 38.
Tanatex Chemical Corporation, The, Jersey City, N. J. Textile softeners and textile lubricants. 576,799, June 30; Serial No. 635,858, published Apr. 14, 1953. Class 6.
Tomlinson of High Point, High Point, N. C. Chairs, buffets, tables, etc. 576,767, June 30; Serial No. 633,340, published Apr. 7, 1953. Class 32.
Toncan Culvert Manufacturers Association: *See*—
Republic Steel Corporation.
Transmission & Gear Company, The, Dearborn, Mich. Machine shafts, transmissions, concrete mixers, etc. 576,629, June 30; Serial No. 611,495, published Dec. 2, 1952. Class 23.
Triboro Mfg. Inc., New York, N. Y. Baby blankets, carriage covers, bed spreads, etc. 576,817, June 30; Serial No. 636,661, published Apr. 14, 1953. Class 42.
Tumb-L-Matic, Inc.: *See*—
Lupomatic Industries, Inc.

Tumb-L-Matic, Inc., New York, N. Y. Abrasive compounds. 576,615, June 30; Serial No. 607,463, published Sept. 25, 1951. Class 4.

Ullmann, Bernhard, Co. Inc., Long Island City, N. Y. Plastic table mats. 576,732, June 30; Serial No. 630,244, published Mar. 10, 1953. Class 50.

United Electric Service Company, Wichita Falls, Tex. Electrically operated exhaust fans, ventilating blowers, and evaporative cooling units. 444,778, June 30; Serial No. 499,447, published Mar. 24, 1953. Class 34.

United Feature Syndicate, Inc., New York, N. Y. Comic drawings. 576,819, June 30; Serial No. 636,752, published Mar. 31, 1953. Class 38.

United States Steel Corporation: *See*—
American Steel and Wire Company of New Jersey, The.

Universal Oil Products Company, Des Plaines, Ill. Solid catalyst. 576,841, June 30; Serial No. 638,506, published Apr. 14, 1953. Class 6.

Universal Sports Corporation, New York, N. Y. Trophies, medals, cups, etc. 576,664, June 30; Serial No. 621,092, published Mar. 10, 1953. Class 50.

Valeotine Company, Incorporated, Richmond, Va. Bulk laxative. 576,592, June 30; Serial No. 597,183, published Mar. 31, 1953. Class 18.

Van Art, Inc., San Francisco, Calif. Heat actuated vapor generator and blower. 576,685, June 30; Serial No. 624,253, published Mar. 24, 1953. Class 34.

Van Hoven Company, Inc., St. Paul, Minn. Protein additive for light-weight concrete cementitious mixes. 576,842, June 30; Serial No. 638,540, published Apr. 14, 1953. Class 6.

Vapor Heating Corporation, Chicago, Ill. Mercury column thermostats. 576,567, June 30; Serial No. 570,596, published Mar. 31, 1953. Class 26.

Verdolyack, Arthur G., Minneapolis, Minn. Paper sheeting. 402,953, Aug. 24, 1943. Republished June 30. Class 37.

Vita + Plus Corporation, Madison, Wis. Vitamin fortifications. 576,674, June 30; Serial No. 622,913, published Apr. 7, 1953. Class 18.

Vitrolite Company, The, Parkersburg, W. Va., to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Tiles. 91,050, re-renewed Apr. 8, 1953. O. G. June 30. Class 12.

Von Wertaur, Marcel J., New York, N. Y. Coffee percolators. 576,875, June 30; Serial No. 631,960. Class 13.

Vylactos Laboratories, Inc., Des Moines, Iowa. Antibiotic and vitamin supplement. 576,744, June 30; Serial No. 631,079, published Mar. 31, 1953. Class 18.

Warner & Swasey Company, The, Cleveland, Ohio. Machine tools. 576,864, June 30; Serial No. 531,167. Class 23.

Warwick Chemical Company, West Warwick, R. I., to Sun Chemical Corporation, Long Island City, N. Y. Products for use as an assistant for mercerizing and similar treatment on vegetable and artificial fibres. 303,513, renewed May 30, 1953. O. G. June 30. Class 6.

Water Chemists, Inc., Los Angeles, Calif. Chemical compounds. 576,663, June 30; Serial No. 620,704, published Apr. 21, 1953. Class 6.

Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. 302,252, renewed Apr. 4, 1953. O. G. June 30. Class 39.

Weekly Publications, Inc.: *See*—
News-Week Inc.

Weevil-Cide Company, The, Kansas City, Mo. Insecticidal preparation. 576,758, June 30; Serial No. 632,184, published Apr. 21, 1953. Class 6.

Western Clock Company, Peru, to General Time Corporation, La Salle, Ill. Clocks and watches. 303,275, renewed May 16, 1953. O. G. June 30. Class 27.

Western Condensing Company, San Francisco, Calif. Poultry and animal feed. 576,573, June 30. Serial No. 581,784, published Mar. 10, 1953. Class 46.

Wheeldex Manufacturing Co., Inc., White Plains, N. Y. Portable filing trays. 576,769, June 30; Serial No. 633,472, published Apr. 14, 1953. Class 32.

Wijnbelt & Co.: *See*—
Wijnbelt, Willem.

Wijnbelt, Willem, trading under the style of Wijnbelt & Co., also trading under the style of Wylax Conservenfabriek, Woudrichem, Netherlands. Fresh, frozen, and smoked fish and shellfish, canned fish, fish paste. 576,634, June 30; Serial No. 612,478, published Mar. 24, 1953. Class 46.

Wilco Products, Inc., Orange, N. J. Machines, apparatus or instruments used in the testing and correcting of wheel alignment. 576,577, June 30; Serial No. 587,219, published Feb. 24, 1953. Class 26.

Williams, C. K., & Co., Easton, Pa. Finely divided barium sulphate. 576,787, June 30; Serial No. 635,163, published Apr. 14, 1953. Class 6.

Wilson, A. L., Chemical Company, Kearny, N. J. Stripping and cleaning compound. 576,649, June 30; Serial No. 615,510, published Apr. 14, 1953. Class 52.

Winsor & Newton, Inc., New York, N. Y. House organ. 576,650, June 30; Serial No. 615,918, published Mar. 31, 1953. Class 38.

Wolfe, Franklin C., Company, Inc., The, Los Angeles, Calif. Sealing washers. 576,868, June 30; Serial No. 610,884. Class 35.

Wolfenden, J. W., Corporation, Attleboro, Mass. Sterling silver flatware and hollow ware. 576,832, June 30; Serial No. 637,200, published Mar. 31, 1953. Class 28.

Wood, Gar, Industries, Inc., Wayne, Mich. Truck and trailer bodies and tank bodies. 576,609, June 30; Serial No. 605,210, published Apr. 14, 1953. Class 19.

Woodall Industries, Inc., Detroit, Mich. Laminated cellulose plastic composition fiber board. 528,814, Aug. 8, 1950. Corrected. O. G. June 30. Class 12.

Wylax Conservenfabriek: *See*—
Wijnbelt, Willem.

Year, Incorporated, Los Angeles, Calif. Publications. 576,701, June 30; Serial No. 626,294, published Mar. 31, 1953. Class 38.

Young, A. & C., Co., Van Nuys, Calif. Canned salted peanuts. 576,642, June 30; Serial No. 614,117, published Apr. 7, 1953. Class 46.

Young, J. W., & Sons Limited, Mayfields, Redditch, England. Fishing reels. 576,824–5, June 30; Serial Nos. 636,869–70, published Apr. 14, 1953. Class 22.

Youngs Rubber Corporation, Inc., to Holland-Rantos Company, Inc., New York, N. Y. Douche syringes. 305,912, renewed Aug. 29, 1953. O. G. June 30. Class 44.

Zehr & Company, Pettisville, Ohio. Poultry and live stock feds. 576,834, June 30; Serial No. 637,512, published Apr. 14, 1953. Class 46.

Ziff-Davis Publishing Company, Chicago, Ill., and New York, N. Y. Magazine. 576,778, June 30; Serial No. 634,428, published Mar. 31, 1953. Class 38.

Zink, John, Company, The: *See*—
Zink, John S.

Zink, John S., doing business under the name of The John Zink Company, Tulsa, Okla. Gas and oil burners, space heating devices. 576,680, June 30; Serial No. 623,573, published Mar. 31, 1953. Class 34.

Zinke Rebottoming Shoe Company, Inc., San Francisco, Calif. Shoe repairing. 576,859, June 30; Serial No. 616,837, published Apr. 14, 1953. Class 103.

Zinsser, William, & Co. Incorporated, New York, N. Y. Refined dewaxed bleached shellac. 576,651, June 30; Serial No. 615,920, published Apr. 7, 1953. Class 16.

Zion Industries, Inc., doing business under the trade style of Suzette Bakers, Zion, Ill. Baker's confections. 576,849, June 30; Serial No. 630,972, published Apr. 7, 1953. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Clyborne, Inc. 576,764, June 30; Serial No. 633,143, published Mar. 31, 1953.

Crushed and sized volcanic glass. Great Lakes Carbon Corporation. 576,760, June 30; Serial No. 632,671, published Mar. 31, 1953.

Fruit-trees, fruit-plants, and hardy ornamentals. Stark Bro's Nurseries & Orchards Co. 92,282, re-renewed June 24, 1953. O. G. June 30.

Seed, Farm and lawn. Seaboard Seed Company. 576,687, June 30; Serial No. 624,362, published Mar. 31, 1953.

Seeds, Field, and grain seeds. Ed. F. Mangelsdorf & Brother. 302,640, renewed Apr. 23, 1953. O. G. June 30.

CLASS 4

Abrading block. W. K. Carter. 576,611, June 30; Serial No. 605,406, published Apr. 14, 1953.

Abrasive compounds. Tumb-L-Matic, Inc. 576,615, June 30; Serial No. 607,463, published Sept. 25, 1951.

Polishing preparation. R. S. Rolling. 576,584, June 30; Serial No. 592,751, published Apr. 1, 1952.

Scouring powder. Safeway Stores, Incorporated. 576,708, June 30; Serial No. 627,410, published Apr. 14, 1953.

Shoe-polish. American Chemical Manufacturing & Mining Co. 41,082, re-renewed Sept. 8, 1953. O. G. June 30.

Shoe polishing kit. Barton Manufacturing Company. 576,872, June 30; Serial No. 624,775.

CLASS 5

Adhesive shellac, Ready-mixed. C. Benoit. 93,418, re-renewed Sept. 16, 1953. O. G. June 30.

Cereal binder. Archer-Daniels-Midland Company. 576,791, June 30; Serial No. 635,455, published Apr. 14, 1953.

Glue. Swift & Company. 576,620, June 30; Serial No. 609,383, published Oct. 30, 1951.

Glues, Liquid. Stein, Hall & Company, Inc. 576,822, June 30; Serial No. 636,816, published Apr. 14, 1953.

Rubber cements and industrial adhesives. Montgomery Bros., Inc. 576,795, June 30; Serial No. 635,708, published Apr. 21, 1953.

Synthetic resins and solutions containing the same for bonding, laminating and adhesive purposes. Reichhold Chemicals, Inc. 576,833, June 30; Serial No. 637,209, published Apr. 14, 1953.

CLASS 6

Anti-freeze solution, and fluid mixture for use in hydraulic brake systems. Puritan Company, Incorporated. 576,568, June 30; Serial No. 572,765, published July 25, 1950.

Bleach and bluing. O. F. Sullivan. 576,836, June 30; Serial No. 637,797, published Apr. 21, 1953.

Catalyst. American Cyanamid Company. 576,828, June 30; Serial No. 637,028, published Apr. 14, 1953.

Chemical compounds. Water Chemists, Inc. 576,663, June 30; Serial No. 620,704, published Apr. 21, 1953.

Chemical preparation. Industrial Research Laboratories. 576,632, June 30; Serial No. 612,371, published Apr. 21, 1953.

Coating composition for application to surfaces of processing equipment. National Glaco Chemical Corporation. 576,612, June 30; Serial No. 606,026, published Apr. 21, 1953.

Esters of dehydrated castor oil fatty acids. The Baker Castor Oil Company. 576,666, June 30; Serial No. 621,443, published Apr. 21, 1953.

Esters of long-chain fatty acids. The Baker Castor Oil Company. 576,667, June 30; Serial No. 621,444, published Apr. 21, 1953.

Finely divided barium sulphate. C. K. Williams & Co. 576,787, June 30; Serial No. 635,163, published Apr. 14, 1953.

Fluids, namely, hydraulic brake fluids. Bendix Aviation Corporation. 576,738, June 30; Serial No. 630,098, published Apr. 21, 1953.

Fluxes. All-Sil Welding Metals, Inc. 576,603, June 30; Serial No. 602,131, published Apr. 14, 1953.

Insecticidal preparation. The Weevil-Cide Company. 576,758, June 30; Serial No. 632,184, published Apr. 21, 1953.

Insecticide. American Cyanamid Company. 576,851, June 30; Serial No. 640,250, published Apr. 14, 1953.

Insecticides. National Distillers Products Corporation. 576,788, June 30; Serial No. 635,192, published Apr. 14, 1953.

Liquid composition for regulating acid ("pickle") baths. Inter-Coastal Paint Corporation. 576,832, June 30; Serial No. 640,281, published Apr. 21, 1953.

Methyl methacrylate monomer and polymer and a filler. Dental Perfection Company. 576,622, June 30; Serial No. 609,633, published Apr. 21, 1953.

Organic compounds. Process Chemicals Company. 576,728, June 30; Serial No. 629,688, published Apr. 7, 1953.

Photographic processing chemicals. Eastman Kodak Company. 576,840, June 30; Serial No. 638,408, published Apr. 14, 1953.

Polyvalent metal salts of carboxylic acids and compositions containing the same. The Harshaw Chemical Company. 576,783, June 30; Serial No. 634,848, published Apr. 14, 1953.

Polyvinyl alcohol. American Monomer Corporation. 576,739, June 30; Serial No. 630,744, published Apr. 21, 1953.

Primary, secondary, tertiary, and quaternary amines. Process Chemicals Company. 576,729, June 30; Serial No. 620,690, published Apr. 7, 1953.

Products for use as an assistant for mercerizing and similar treatment on vegetable and artificial fibres. Warwick Chemical Company. 303,513, renewed May 30, 1953. O. G. June 30.

Protein additive for light-weight concrete cementitious mixes. Van Hoven Company, Inc. 576,842, June 30; Serial No. 638,540, published Apr. 14, 1953.

Sanitary preparations for use in connection with sanitary closets. The Mofusil Development Corporation Limited. 576,684, June 30; Serial No. 624,241, published Apr. 14, 1953.

Siliceous material. Sun Chemical Corporation. 576,750, June 30; Serial No. 631,504, published Apr. 14, 1953.

Solid catalyst. Universal Oil Products Company. 576,841, June 30; Serial No. 638,500, published Apr. 14, 1953.

Synergized ryania concentrate. S. B. Penick & Company. 576,600, June 30; Serial No. 601,370, published Apr. 14, 1953.

Textile softeners and textile lubricants. The Tanatex Chemical Corporation. 576,790, June 30; Serial No. 635,858, published Apr. 14, 1953.

Viscous fatty acid esters. Spencer Kellogg and Sons, Inc. 576,705, June 30; Serial No. 626,833, published Apr. 14, 1953.

Weed killer. Spencer Chemical Company. 576,837, June 30; Serial No. 638,221, published Apr. 14, 1953.

Weedicides, insecticides, and plant, grain, and seed disinfectants. Farbwerke Hoechst, vormals Meister Lucius & Brüning. 576,711, June 30; Serial No. 628,148, published Apr. 7, 1953.

CLASS 8

Lighters, Pyrophoric cigarette and cigar, ash trays, and cigarette boxes. Continental Merchandise Co., Inc. 576,616, June 30; Serial No. 607,581, published Apr. 22, 1952.

Pipes and parts thereof, Smoking, and smoking pipe filters. Glaser Bros. 576,724, June 30; Serial No. 629,607, published Mar. 31, 1953.

CLASS 10

Fertilizers. Eastern States Soilbuilders, Inc. 576,644, June 30; Serial No. 614,761, published Mar. 31, 1953.

Fertilizers. Oklahoma Fertilizer & Chemical Co. 576,813, June 30; Serial No. 636,488, published Apr. 7, 1953.

Fertilizing compounds. Central Chemical Corporation. 576,675, June 30; Serial No. 622,925, published Mar. 31, 1953.

Nitrogen-containing solutions, suitable for use as fertilizers. Allied Chemical & Dye Corporation. 576,808, June 30; Serial No. 636,265, published Apr. 7, 1953.

Plant food. Swift & Company. 576,668, June 30; Serial No. 621,485, published Mar. 31, 1953.

Plant food. J. W. Owen. 576,704, June 30; Serial No. 626,636, published Apr. 7, 1953.

Soil conditioner. Perma-Rock Products, Inc. 576,747, June 30; Serial No. 631,806, published Mar. 31, 1953.

CLASS 11

Ink, Printing. Multigraph Company. 305,209, renewed Aug. 8, 1953. O. G. June 30.

CLASS 12

Cement, Portland. The Cement Marketing Company, Limited. 576,755, June 30; Serial No. 632,017, published Mar. 31, 1953.

Construction board. Masonite Corporation. 576,686, June 30. Serial No. 624,282, published Mar. 31, 1953.

Fillers for street pavements, sidewalks, bridges, etc. The Philip Carey Manufacturing Company. 90,965, re-renewed Apr. 8, 1953. O. G. June 30.

Ganister. Keystone Refractories Company. 180,145, Feb. 26, 1924; republished June 30.

Insulation board. Bird & Son, Inc. 576,762, June 30; Serial No. 632,869, published Mar. 31, 1953.

Laminated cellulose plastic composition fiber board. Woodall Industries, Inc. 528,814, Aug. 8, 1950. Corrected. O. G. June 30.

Mortar, Furnace. Keystone Refractories Company. 180,051, Feb. 19, 1924; republished June 30.

Paint-pigments, colors in oil, dry colors, etc. C. A. Nash & Son, Inc. 144,614, July 12, 1921; republished June 30.

Road and highway guards and parts thereof. Republic Steel Corporation. 305,049, renewed July 25, 1953. O. G. June 30.

Tiles. The Vitrolite Company. 91,050, re-renewed Apr. 8, 1953. O. G. June 30.

Wall board. Central Fibre Products Co., Inc. 301,887, renewed Mar. 21, 1953. O. G. June 30.

Windows, Combination. Alumatic Corporation of America. 576,669, June 30; Serial No. 621,538, published Mar. 31, 1953.

CLASS 13

Metal fence posts. The American Steel and Wire Company of New Jersey. 300,030, renewed Jan. 3, 1953. O. G. June 30.

Percolators, Coffee. M. J. Von Wertaur. 576,875, June 30; Serial No. 631,960.

CLASS 15

Additive for motor oil. Stewart-Warner Corporation. 576,625, June 30; Serial No. 610,150, published Apr. 7, 1953.

Candles. Products of Cedar Cottage Limited. 576,737, June 30; Serial No. 630,680, published Apr. 7, 1953.

Fuel oil conditioner. General Paint & Varnish Company Inc. 401,770, June 8, 1943; republished June 30.

Gasoline and lubricating oils. Panoma Corporation. 576,743, June 30; Serial No. 630,948, published Mar. 31, 1953.

Industrial chemicals, namely cutting oils. Pemaco Incorporated. 576,733, June 30; Serial No. 630,282, published Apr. 7, 1953.

Lubricant. National Plastirs, Inc. 576,697, June 30; Serial No. 625,860, published Apr. 14, 1953.

Oils, Hydraulic. James R. Kearney Corporation. 576,681, June 30; Serial No. 623,967, published Apr. 14, 1953.

CLASS 16

Calcimine in dry powder form. The Muralo Company, Inc. 576,561, June 30; Serial No. 546,313, published Apr. 7, 1953.

Flat wall finish. General Paint & Varnish Company Inc. 178,295, Jan. 8, 1924; republished June 30.

New wall finish. M. A. Bruder & Sons, Incorporated. 576,586, June 30; Serial No. 593,711, published Apr. 14, 1953.

Paint enamels and varnishes. Berry Brothers. 331,776, Jan. 21, 1936; republished June 30.

Paint-pigments, colors in oil, dry colors, etc. C. A. Nash & Son, Inc. 144,614, July 12, 1921; republished June 30.

Paints. Sewall Paint & Varnish Company. 416,995, Oct. 9, 1945; republished June 30.

Paints, Ready-mixed and paste, paint enamels, high gloss paints, etc. General Paint & Varnish Company Inc. 350,701, Oct. 5, 1937; republished June 30.

Paints, Ready-mixed, and tinting colors. International Paint Company, Inc. 576,658, June 30; Serial No. 618,797, published Apr. 14, 1953.

Paints, Ready-mixed, paint enamels, and stains. General Paint & Varnish Company Inc. 178,302, Jan. 8, 1924; republished June 30.

Paints, Ready-mixed, paste paints, flat paints, etc. General Paint & Varnish Company Inc. 360,073, Sept. 6, 1938; republished June 30.

Paints, varnishes, lacquers, etc. American-Marietta Company. 396,589, July 28, 1942; republished June 30.

Penetrating floor oil and paint reinforcing oil. Stewart Paint Manufacturing Company. 576,571, June 30; Serial No. 575,724, published Apr. 7, 1953.

Penetrating wood floor finishes. McCloskey Varnish Co. 576,643, June 30; Serial No. 614,258, published Apr. 7, 1953.

Shellac, Refined dewaxed bleached. William Zinsser & Co. Incorporated. 576,651, June 30; Serial No. 615,920, published Apr. 7, 1953.

Varnish. Berry Brothers, Inc. 194,111, Jan. 13, 1925; republished June 30.

Varnish. Berry Brothers, Limited. 25,141, Aug. 14, 1894; republished June 30.

Varnishes. Berry Brothers. 104,196, May 11, 1915; republished June 30.

Varnishes. Berry Brothers. 158,386, Sept. 5, 1922; republished June 30.

Varnishes. Berry Brothers. 158,612, Sept. 12, 1922; republished June 30.

Varnishes, paint enamels, and lacquers. Berry Brothers. 340,011, Oct. 27, 1936; republished June 30.

Varnishes, stains, and paint enamels. General Paint & Varnish Company Inc. 179,148, Feb. 5, 1924; republished June 30.

Varnishes, stains, Japans, etc. General Paint & Varnish Company Inc. 366,435, Apr. 11, 1939; republished June 30.

Varnishes, stains, Japans, etc. General Paint & Varnish Company Inc. 366,441, Apr. 11, 1939; republished June 30.

CLASS 17

Cigarettes. M. Melachrino & Co. 91,589, re-renewed May 13, 1953. O. G. June 30.

Cigarettes. M. Melachrino & Co. 91,678, re-renewed May 20, 1953. O. G. June 30.

Cigars. W. G. Patterson Brokerage Co., Inc. 576,757, June 30; Serial No. 632,174, published Mar. 31, 1953.

CLASS 18

Antibacterial preparation. E. R. Squibb & Sons. 576,594, June 30; Serial No. 598,506, published Mar. 31, 1953.

Antibiotic and vitamin supplement. Vylactos Laboratories, Inc. 576,744, June 30; Serial No. 631,079, published Mar. 31, 1953.

Antipyretic and spasmolytic preparations and pharmaceutical preparations. Standard Pharmaceutical Co., Inc. 576,790, June 30; Serial No. 635,330, published Mar. 31, 1953.

Antiseptic composition. Pickwick Products Company. 576,873, June 30; Serial No. 627,147.

Astringent for sour stomach, heartburn, acid eructations, etc. Merrick Medicine Company. 576,770, June 30; Serial No. 633,731, published Mar. 31, 1953.

Astringent lotion. V. C. Smith. 576,630, June 30; Serial No. 611,918, published Nov. 25, 1952.

Corn-salve. W. T. Hanson Co. 90,700, re-renewed Mar. 18, 1953. O. G. June 30.

Inhalation anesthetic. Air Reduction Company, Incorporated. 576,722, June 30; Serial No. 629,275, published Oct. 14, 1952.

Isotonic solution of iodine. Iodine Educational Bureau, Inc. 305,850, renewed Aug. 29, 1953. O. G. June 30.

Laxative, Bulk. Valentine Company, Incorporated. 576,592, June 30; Serial No. 597,183, published Mar. 31, 1953.

Medicinal preparation. John Beard Memorial Foundation. 576,759, June 30; Serial No. 632,241, published Mar. 31, 1953.

Ointment. Serpa & Paglia. 576,618, June 30; Serial No. 607,764, published Mar. 31, 1953.

Ointment. P. M. Simmons. 576,660, June 30; Serial No. 620,071, published Mar. 31, 1953.

Penicillin ointment. International Affiliated Corporation. 576,793, June 30; Serial No. 635,654, published Mar. 31, 1953.

Pharmaceutical and veterinary preparations. Imperial Chemical (Pharmaceuticals) Limited. 576,605, June 30; Serial No. 625,603, published Mar. 31, 1953.

Pharmaceutical preparation. Industria Quimica Farmacéutica Vir, S. A. 576,673, June 30; Serial No. 622,719, published Mar. 31, 1953.

Pharmaceutical preparation. Mead Johnson & Company. 576,619, June 30; Serial No. 608,166, published May 13, 1952.

Poultry feed supplement, feed supplement for cattle rations, hog feed supplement. The Borden Company. 576,564, June 30; Serial No. 564,551, published Apr. 7, 1953.

Preparation for symptomatic relief of colds and allergies. Anahist Co. Inc. 576,575, June 30; Serial No. 585,736, published Aug. 1, 1950.

Preparation for the treatment of dandruff, etc. S. M. -Baltaly. 201,623, Aug. 4, 1925. Republished June 30.

Product for the prevention and control of blackhead in fowl. American Scientific Laboratories, Inc. 576,745, June 30; Serial No. 631,197, published Mar. 31, 1953.

Skin cream, skin tonic, muscle oil, etc. Elizabeth Arden, Inc. 252,449, Feb. 5, 1929. Republished June 30.

Spasmolytic. Geigy Company, Inc. 576,709, June 30; Serial No. 627,571, published Apr. 7, 1953.

Surgical lubricating jelly. Day Chemical Company. 302,457, renewed Apr. 18, 1933. O. G. June 30.

Vitamin fortifications. Vita+Plus Corporation. 576,674, June 30; Serial No. 622,913, published Apr. 7, 1953.

Vitamin preparation. Sharp & Dohme, Incorporated. 576,756, June 30; Serial No. 632,049, published Mar. 31, 1953.

CLASS 19

Truck and trailer bodies and tank bodies. Gar Wood Industries, Inc. 576,609, June 30; Serial No. 605,210, published Apr. 14, 1953.

CLASS 21

Electrical fire alarm equipment and attachments. The Gamewell Company. 305,300, renewed Aug. 15, 1953. O. G. June 30.

Plug-in inductances and forms for the same. National Company, Inc. 306,287, renewed Sept. 12, 1953. O. G. June 30.

CLASS 22

Fish hooks. V. C. Kahle. 576,581, June 30; Serial No. 589,658, published Apr. 14, 1953.

Fishing reels. J. W. Young & Sons Limited. 576,824–5, June 30; Serial Nos. 636,869–70, published Apr. 14, 1953.

Game. Colgar & Company. 576,803, June 30; Serial No. 636,110, published Apr. 7, 1953.

Golf gloves. J. M. Johnston. 576,826, June 30; Serial No. 636,803, published Apr. 14, 1953.

Toy. American Metal Specialties Corporation. 576,877–8, June 30; Serial Nos. 634,623–4.

Toy animals. F. Passarelli. 576,641, June 30; Serial No. 614,007, published Apr. 14, 1953.

Toy dogs, Stuffed. Ross & Ross. 576,773, June 30; Serial No. 634,056, published Mar. 24, 1953.

Toy spinning tops, Bandelore. D. F. Duncan. 298,697, Nov. 1, 1932. Republished June 30.

Toy, Tiltably supported ridable. E. L. Scott. 576,876, June 30; Serial No. 632,852.

Toys, Extendible figure. The Judy Company. 576,806, June 30; Serial No. 636,237, published Apr. 7, 1953.

CLASS 23

Fluid agitating and mixing devices. Mixing Equipment Co., Inc. 402,708, Aug. 10, 1943. Republished June 30, 1953.

Grease guns. National Sales, Inc. 576,865, June 30; Serial No. 576,712.

Machine shafts, transmissions, concrete mixers, etc. The Transmission & Gear Company. 576,629, June 30; Serial No. 611,495, published Dec. 2, 1952.

Machinery bearings and bearing collars. Joseph T. Ryerson & Son, Inc. 302,010, renewed Mar. 21, 1953. O. G. June 30.

Machines for tumbling, burnishing, and otherwise finishing metals, etc. Lupomatic Industries, Inc. 576,590, June 30; Serial No. 596,103, published Jan. 9, 1951.

Mixing equipment. Mixing Equipment Co., Inc. 407,155, May 23, 1944. Republished June 30, 1953.

Power driven log stop and kicker and log turner apparatus. W. T. Stockett, Jr. 576,870, June 30; Serial No. 621,914.

Pumps, shaft bearings, and parts thereof. Byron Jackson Co. 570,537, Feb. 17, 1953. Corrected. O. G. June 30.

Saws. Huther Brothers Saw Manufacturing Company. 113,738, Oct. 31, 1916. Republished June 30.

Tools, Machine. The Warner & Swasey Company. 576,864, June 30; Serial No. 531,167.

Typewriting machines. L. C. Smith & Corona Typewriters, Inc. 302,000, renewed Mar. 21, 1953. O. G. June 30.

CLASS 24

Washing machines. Speedy Washer Manufacturing Co. 576,871, June 30; Serial No. 623,288.

CLASS 26

Binoculars. Leonards & Lee Sales Co. 576,683, June 30; Serial No. 624,141, published Apr. 7, 1953.

Camera cases, fitted cases designed for photographic accessories, etc. Lederwarenfabrik Kritzler K. G. 576,798, June 30; Serial No. 635,837, published Apr. 7, 1953.

Computers and parts thereof, Electronic. Northrop Aircraft, Inc. 570,021, June 30; Serial No. 609,413, published Feb. 24, 1953.

Dispensing apparatus for the measurement and dispensing of servings of melted butter or like substances, Butter-Supurdisplay, Incorporated. 576,661, June 30; Serial No. 620,444, published Mar. 31, 1953.

Electrical instruments especially for measuring or regulating purposes. Svenska Ackumulator Aktiebolaget Jungner. 576,665, June 30; Serial No. 621,111, published Apr. 14, 1953.

Gauge for setting and adjusting thermostatic controls. S. J. Jacobs. 576,645, June 30; Serial No. 614,780, published Feb. 24, 1953.

Industrial and domestic models, namely scale models. H. J. Bowen. 576,582, June 30; Serial No. 589,825, published Feb. 24, 1953.

Machines, apparatus or instruments used in the testing and correcting of wheel alignment. Wilco Products, Inc. 576,577, June 30; Serial No. 587,219, published Feb. 24, 1953.

Meters, Gas, and combination gas meters and regulators, etc. Sprague Meter Company. 576,706, June 30; Serial No. 626,834, published Mar. 31, 1953.

Moving picture projectors, Electrically operated coin controlled. Capitol Projector Corporation. 576,596, June 30; Serial No. 598,980, published Feb. 24, 1953.

Ophthalmic lenses and lens blanks. Modern Optics, Incorporated. 576,717, June 30; Serial No. 628,707, published Mar. 17, 1953.

Optical frames. Marine Optical Manufacturing Co. 576,690, June 30; Serial No. 624,606, published Feb. 24, 1953.

Photographic apparatus. C. Koch. 576,707, June 30; Serial No. 627,071, published Feb. 24, 1953.

Photographic equipment, and/or photographic accessories and/or photorgraphic supplies. Graflex, Inc. 576,614, June 30; Serial No. 607,384, published Feb. 24, 1953.

Photographic flash gun. Burleigh Brooks Co. 576,654, June 30; Serial No. 616,895, published Apr. 21, 1953.

Sash regulator. Burnham Corporation. 576,628, June 30; Serial No. 611,340, published Feb. 24, 1953.

Spectacles, eyeglasses, and parts thereof. Sburon Optical Company, Inc. 302,337, renewed Apr. 11, 1953. O. G. June 30.

Store and merchandising equipment, comprising an electronic merchandise selector, etc. First Elmersel Store. 576,570, June 30; Serial No. 575,135, published Apr. 7, 1953.

Thermostats, Mercury column. Vapor Heating Corporation. 576,567, June 30; Serial No. 570,596, published Mar. 31, 1953.

Unitary apparatus for performing titrations. Beckman Instruments, Inc. 576,602, June 30; Serial No. 626,394, published Feb. 24, 1953.

Universal mounting means—namely, a stand specially adapted for mounting testing apparatus, etc. Servo Corporation of America. 576,583, June 30; Serial No. 592,005, published Feb. 24, 1953.

Vehicular chassis dynamometers. Otis Elevator Company. 576,565, June 30; Serial No. 564,735, published Feb. 24, 1953.

CLASS 27

Clocks and watches. Western Clock Company. 303,275, renewed May 16, 1953. O. G. June 30.

Clocks and watches, and parts thereof. Gebruder Junghans Aktiengesellschaft. 576,797, June 30; Serial No. 635,827, published Apr. 14, 1953.

Watch movements, cases, dials, and sheaths. Ernest Homberger-Rauschenbach, vorm., International Watch Co. 576,647, June 30; Serial No. 615,290, published Mar. 31, 1953.

Watches. Bulova Watch Company, Inc. 576,735, June 30; Serial No. 630,379, published Apr. 14, 1953.

Watches. Bulova Watch Company, Inc. 576,820, June 30; Serial No. 636,768, published Apr. 14, 1953.

Watches. Rexall Drug Company. 576,786, June 30; Serial No. 635,096, published Apr. 14, 1953.

Watches. Saxony Watch Co. 576,813, June 30; Serial No. 636,436, published Apr. 14, 1953.

Watches and parts of watches. Jenny Watch G. m. b. H. 576,607, June 30; Serial No. 604,697, published Apr. 14, 1953.

Watches and parts of watches. Rodania Ltd. (Rodania S. A.). 576,776, June 30; Serial No. 634,267, published Mar. 31, 1953.

Watches and parts thereof, watch movements, watch-cases. Société Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie. 576,597, June 30; Serial No. 599,270, published Apr. 7, 1953.

Watches, clocks, and chronometers. Sévi S. A. (Jolas e Relogios). 576,723, June 30; Serial No. 629,302, published Apr. 14, 1953.

Watches, watch cases, and watch movements. The Gruen Watch Company. 576,659, June 30; Serial No. 619,387, published Mar. 31, 1953.

CLASS 28

Diamonds, finger rings, and mountings therefor. A. N. Gordon. 576,679, June 30; Serial No. 623,304, published Mar. 31, 1953.

Mountings for finger rings and finger ring sets. Feature Ring Co., Inc. 576,801, June 30; Serial No. 636,071, published Mar. 31, 1953.

Sterling silver flatware and hollow ware. J. W. Wolfenden, Corporation. 576,832, June 30; Serial No. 637,200, published Mar. 31, 1953.

CLASS 29

Implements for wiping and dusting purposes. Calaway Mills Company. 576,766, June 30; Serial No. 633,298, published Apr. 7, 1953.

Polishing cloths, Chemically treated. The Silicote Corporation. 576,588, June 30; Serial No. 595,163, published Apr. 1, 1952.

CLASS 30

Ceramic dinnerware. National Silver Company. 576,754, June 30; Serial No. 631,884, published Mar. 31, 1953.

China tableware, earthenware, tableware and pottery tableware. Miller and Rhoads, Incorporated. 576,676, June 30; Serial No. 623,110, published Mar. 31, 1953.

Pottery. Mitteldorfer Straus, Inc. 576,605, June 30; Serial No. 603,539, published Mar. 25, 1952.

CLASS 32

Beach and garden umbrellas. Macon Umbrella Corporation. 576,772, June 30; Serial No. 633,991, published Apr. 14, 1953.

Box springs. Holman-O. D. Baker Co. Inc. 576,725, June 30; Serial No. 629,610, published Apr. 14, 1953.

Chairs and tables, Folding, and table bases. Foldcraft Incorporated. 576,792, June 30; Serial No. 635,468, published Apr. 14, 1953.

Chairs, buffets, tables, etc. Tomlinson of High Point. 576,767, June 30; Serial No. 633,340, published Apr. 7, 1953.

Desks. American Desk Manufacturing Co. 576,794, June 30; Serial No. 635,673, published Apr. 14, 1953.

Display cases. The Brunswick-Balke-Collender Company. 576,700, June 30; Serial No. 626,145, published Apr. 14, 1953.

Filing trays, Portable. Wheeldex Manufacturing Co., Inc. 576,769, June 30; Serial No. 633,472, published Apr. 14, 1953.

Furniture, Bedroom. Johnson-Carper Furniture Company, Inc. 576,785, June 30; Serial No. 635,088, published Apr. 14, 1953.

Furniture components, Wood. Lundstrom Laboratories, Inc. 576,563, June 30; Serial No. 563,857, published Apr. 7, 1953.

Mattresses. Serta Associates, Inc. 576,631, June 30; Serial No. 612,092, published Apr. 14, 1953.

Mattresses, box springs and dual sleeping items. A. Brandwein & Company. 576,633, June 30; Serial No. 612,436, published Apr. 14, 1953.

Reproductions of 18th and 19th century furniture. Shaffro, Inc. 576,598, June 30; Serial No. 599,595, published Apr. 14, 1953.

Tables, Novelty and occasional. Ashley-Rhodes, Inc. 576,779, June 30; Serial No. 634,437, published Apr. 7, 1953.

CLASS 33

Containers, namely, glass bottles. Applicolor, Inc. 576,777, June 30; Serial No. 634,286, published Apr. 14, 1953.

Crystal table ware. "Minex" Centrala Eksportowo-Importowa Wytworow Przemysiu Mineralnego Przedsiebiorstwo Panstwowe. 576,734, June 30; Serial No. 630,366, published Apr. 14, 1953.

Glass, Safety, American Window Glass Company. 576,727, June 30; Serial No. 629,647, published Apr. 14, 1953.

Glass, Sheet. Guardian Glass Company, Inc. 576,585, June 30; Serial No. 593,345, published Apr. 14, 1953.

Glass sheets. American Window Glass Company. 576,726, June 30; Serial No. 629,646, published Apr. 14, 1953.

Glassware sets, Machine-made and handmade, and individual glass pieces. Miller and Rhoads, Incorporated. 576,677, June 30; Serial No. 623,113, published Apr. 14, 1953.

CLASS 34

Air conditioning and furnace accessories. Hart & Cooley Manufacturing Co. 576,670, June 30; Serial No. 621,554, published Mar. 31, 1953.

Apparatus for conditioning air adapted to be circulated through tobacco barns. Bright Leaf Industries, Inc. 576,752, June 30; Serial No. 631,600, published Mar. 17, 1953.

Apparatus for conditioning air within tobacco barns. Bright Leaf Industries, Inc. 576,753, June 30; Serial No. 631,601, published Mar. 24, 1953.

Arclamp globes of glass. The C. F. Pease Company. 302,370, renewed Apr. 18, 1953. O. G. June 30.

Blowers, Axial flow positive displacement. The Standard Stoker Company, Inc. 576,627, June 30; Serial No. 610,720, published Apr. 7, 1953.

Burners, Gas and oil, space heating devices. J. S. Zink. 576,680, June 30; Serial No. 623,573, published Mar. 31, 1953.

Coolers and heaters, Portable, water evaporative type air. Portable Air Cooler and Heater, Inc. 576,698, June 30; Serial No. 625,918, published Mar. 17, 1953.

Evaporative coolers and grilles and louvers. J. R. Dry and Sons. 576,599, June 30; Serial No. 600,471, published Apr. 14, 1953.

Fans, Electrically operated exhaust, ventilating blowers, and evaporative cooling units. United Electric Service Company. 444,778, June 30; Serial No. 499,447, published Mar. 24, 1953.

Generator and blower, Heat actuated vapor. Van Art, Inc. 576,685, June 30; Serial No. 624,253, published Mar. 24, 1953.
Hand warmers. Sharpe Instruments, Limited. 576,672, June 30; Serial No. 621,843, published Mar. 17, 1953.
Heaters, Automatic gas water. Continental Water Heater Co. 576,589, June 30; Serial No. 595,535, published Mar. 17, 1953.
Heaters, Feed-water, hot-water heaters, evaporators, etc. The Griscom-Russell Co. 92,421, re-renewed July 8, 1953. O. G. June 30.
Heaters, Oil, oil burners, and burner pots. Breese Burners, Inc. 576,736, June 30; Serial No. 630,662, published Mar. 17, 1953.
Ignition system for gas stoves and ranges. G. D. Roper. 576,638, June 30; Serial No. 612,873, published Mar. 17, 1953.
Roofing equipment. D. Levow. 576,636, June 30; Serial No. 612,502, published Mar. 17, 1953.

CLASS 35

Belting, Canvas. C. R. Daniels, Inc. 444,780, June 30; Serial No. 516,605, published Apr. 14, 1953.
Belting, Leather. Superior Sewing Machine and Supply Corp. 576,843, June 30; Serial No. 638,883, published Apr. 14, 1953.
Felt sheet packing. The Anchor Packing Company. 576,640, June 30; Serial No. 613,754, published Apr. 21, 1953.
Gaskets. Rieke Metal Products Corporation. 576,854, June 30; Serial No. 641,320, published Apr. 21, 1953.
Hose, Garden. The Gates Rubber Company. 576,838, June 30; Serial No. 638,298, published Apr. 14, 1953.
Hose, Gasoline, distillate hose, tank wagon hose, etc. Lee Rubber & Tire Corporation. 576,749, June 30; Serial No. 631,429, published Apr. 21, 1953.
Hydraulic packing compounds. M. Pierce. 576,761, June 30; Serial No. 632,848, published Apr. 14, 1953.
Sealing washers. The Franklin C. Wolfe Company, Inc. 576,868, June 30; Serial No. 610,884.
Tires and tubes. Biddle Purchasing Company. 576,814, June 30; Serial No. 636,458, published Apr. 14, 1953.
Tires, Pneumatic. The General Tire & Rubber Company. 576,635, June 30; Serial No. 612,493, published Apr. 21, 1953.

CLASS 36

Accordions. Enrico Roselli Accordion Company. 576,702–3, June 30; Serial No. 626,341–2, published Apr. 21, 1953.
Accordions and parts thereof. Ditta I. Rusllacchio & Fill. 576,869, June 30; Serial No. 616,370.
Musical instrument, Electronic. Gibson, Inc. 576,781, June 30; Serial No. 634,639, published Apr. 21, 1953.
Phonograph needles. Lowell Needle Company, Inc. 576,562, June 30; Serial No. 548,271, published Apr. 21, 1953.
Phonograph records, Mechanically grooved. Sacred Records, Inc. 576,867, June 30; Serial No. 608,325.
Violins, banjos, mandolins, etc. F. Gretsch. 41,054, re-renewed Sept. 1, 1953. O. G. June 30.

CLASS 37

Paper sheeting. A. G. Verdoyack. 402,953, Aug. 24, 1943. Republished June 30.
Pencils, Lead. Gulf States Sales Corporation. 576,662, June 30; Serial No. 620,599, published Mar. 17, 1953.

CLASS 38

Books. Adventures in Good Eating, Inc. 576,574, June 30; Serial No. 584,742, published Mar. 31, 1953.
Books. Phaidon Publishers, Inc. 576,566, June 30; Serial No. 568,752, published Apr. 7, 1953.
Books, bulletins, periodical publications, etc. The National City Bank of New York. 576,617, June 30; Serial No. 607,717, published Apr. 7, 1953.
Bulletins and literature, Technical and promotional. Rail Steel Bar Association. 576,626, June 30; Serial No. 610,632, published Apr. 7, 1953.
Cartoons. C. E. David, Jr. 576,811, June 30; Serial No. 636,349, published Mar. 31, 1953.
Cartoons. King Features Syndicate, Inc. 306,019, renewed Sept. 5, 1953. O. G. June 30.
Cartoons or comic strips. National Distillers Products Corporation. 576,689, June 30; Serial No. 624,559, published Mar. 31, 1953.
Column in a periodical. Babson Bros. Co. 576,721, June 30; Serial No. 629,227, published Mar. 31, 1953.
Column or section of a newspaper. King Features Syndicate, Inc. 306,203, renewed Sept. 12, 1953. O. G. June 30.
Comic drawings. United Feature Syndicate, Inc. 576,819, June 30; Serial No. 636,752, published Mar. 31, 1953.
Comic section, Weekly. The Post Printing and Publishing Company. 576,796, June 30; Serial No. 635,714, published Mar. 24, 1953.
Comic strip. New York Herald Tribune, Inc. 576,804, June 30; Serial No. 636,144, published Mar. 31, 1953.
Engraved greeting cards. J. F. Stubler. 576,784, June 30; Serial No. 634,872, published Apr. 7, 1953.
Guide for persons seeking a career in business or industry. Decision, Inc. 576,789, June 30; Serial No. 635,288, published Apr. 7, 1953.
House organ. Winsor & Newton, Inc. 576,650, June 30; Serial No. 615,918, published Mar. 31, 1953.
Magazine. Interstate Publishing Corp. 576,818, June 30; Serial No. 636,711, published Apr. 7, 1953.
Magazine. Ziff-Davis Publishing Company. 576,778, June 30; Serial No. 634,428, published Mar. 31, 1953.
Magazine, Weekly. News-Week Inc. 305,331, renewed Aug. 15, 1953. O. G June 30.
Newspaper column. New York Herald Tribune Inc. 576,802, June 30; Serial No. 636,088, published Mar. 31, 1953.
Periodical. New York World-Telegram Corporation. 305,467, renewed Aug. 15, 1953. O. G. June 30.
Pictorial advertising signs. W. M. Harris. 576,768, June 30; Serial No. 633,420, published Mar. 31, 1953.
Printed fashion display sheets. J. W. Gagen. 576,613, June 30; Serial No. 606,524, published Mar. 31, 1953.
Publication. A. F. Drueck. 576,595, June 30; Serial No. 598,838, published Apr. 7, 1953.
Publication, Periodical. Swift & Company. 576,812, June 30; Serial No. 636,390, published Mar. 31, 1953.
Publications. Year, Incorporated. 576,701, June 30; Serial No. 626,294, published Mar. 31, 1953.
Section of periodical publication. Down Beat, Incorporated. 576,831, June 30; Serial No. 637,173, published Apr. 7, 1953.
Text-books and completely printed student testing and practice publications. South-Western Publishing Co. 576,610, June 30; Serial No. 605,333, published Apr. 7, 1953.

CLASS 39

Boots, shoes, and slippers. W. B. Coon Company. 192,585, Dec. 9, 1924; republished June 30.
Boots, shoes and slippers, Leather, rubber and leather, fabric and leather. W. B. Coon Company. 154,520, Apr. 18, 1922; republished June 30.
Brassières, bandeaux, corsets, etc. Beauty Brassiere Co. 576,559, June 30; Serial No. 521,054, published Apr. 7, 1953.
Clothing. N. Fluegelman & Co., Inc. 226,324, Apr. 5, 1927; republished June 30.
Clothing, Work. The H. D. Lee Mercantile Co. 306,214, renewed Sept. 12, 1953. O. G. June 30.
Dresses and aprons, Ladies' and misses'. S. J. Goldfarb. 400,861, Apr. 6, 1943; republished June 30.
Dresses and aprons, Ladies' and misses'. S. J. Goldfarb. 403,594, Oct. 5, 1943; republished June 30.
Dresses and housecoats, Ladies'. S. J. Goldfarb. 391,216, Oct. 28, 1941; republished June 30.
Hats and caps, Men's, boys', and women's. Frank H. Chamberlain Company, Incorporated. 236,899, Dec. 27, 1927. Amended. O. G. June 30.
Hats, Men's. Adam Hat Stores, Inc. 302,578, renewed Apr. 25, 1953. O. G. June 30.
Hosiery. Wayne Knitting Mills. 302,252, renewed Apr. 4, 1953. O. G. June 30.
Hosiery, Men's and women's. The F. & R. Lazarus & Co. 90,645, re-renewed Mar. 11, 1953. O. G. June 30.
Shoes. W. B. Coon Company. 334,102, Apr. 21, 1936; republished June 30.
Slacks, dresses, and combined slack-dresses, Ladies'. S. J. Goldfarb. 303,193, Jan. 27, 1942; republished June 30.
Underwear, Men's, women's, and children's. Celanese Corporation of America. 304,942, renewed July 25, 1953. O. G. June 30.
Wearing apparel, Men's and boys' outer. Goodall Worsted Co. 306,194, renewed Sept. 12, 1953. O. G. June 30.

CLASS 42

Blankets. The May Department Stores Company. 302,338, renewed Apr. 25, 1953. O. G. June 30.
Blankets. Pepperell Manufacturing Company. 576,637, June 30; Serial No. 612,701, published Apr. 14, 1953.
Blankets, Baby, carriage covers, bed spreads, etc. Triboro Mfg. Inc. 576,817, June 30; Serial No. 636,661, published Apr. 14, 1953.
Fabric, Woven elastic textile. S. M. S. Textile Mills. 576,844, June 30; Serial No. 638,932, published Apr. 14, 1953.
Fabrics. Celanese Corporation of America. 302,788, renewed Apr. 25, 1953. O. G. June 30.
Fabrics. Celanese Corporation of America. 302,796, renewed Apr. 25, 1953. O. G. June 30.
Fabrics. Celanese Corporation of America. 303,756, renewed June 6, 1953. O. G. June 30.
Fabrics. Celanese Corporation of America. 304,084, renewed June 20, 1953. O. G. June 30.
Fabrics. Celanese Corporation of America. 304,595, renewed July 11, 1953. O. G. June 30.
Fabrics. Celanese Corporation of America. 304,722, renewed July 18, 1953. O. G. June 30.
Fabrics, Textile. E. Bona. 576,866, June 30; Serial No. 596,032.
Fabrics, Textile. Burlington Mills Corporation. 576,652, June 30; Serial No. 616,157, published Apr. 14, 1953.
Fabrics, Textile. D. B. Fuller & Co., Inc. 576,800, June 30; Serial No. 636,010, published Apr. 14, 1953.

Fabrics, Water-proofed and fireproofed. Cooley, Incorporated. 576,823, June 30; Serial No. 636,842, published Apr. 14, 1953.
Fabrics, Wool. Miron Mills, Inc. 576,809–10, June 30; Serial Nos. 636,300–1, published Apr. 14, 1953.
Fabrics, Woolen. Lambeth Woolens, Inc. 576,827, June 30; Serial No. 636,987, published Apr. 14, 1953.
Netting. Drummondville Cotton Company, Limited. 576,742, June 30; Serial No. 630,836, published Apr. 14, 1953.
Piece goods. Abbott Worsted Mills, Incorporated. 306,291, renewed Sept. 12, 1953. O. G. June 30.
Piece goods. William Heller, Incorporated. 576,731, June 30; Serial No. 630,133, published Apr. 14, 1953.
Piece goods. The Kenyon Piece Dyeworks, Inc. 576,741, June 30; Serial No. 630,784, published Apr. 14, 1953.
Piece goods. The Russell Manufacturing Company. 576,657, June 30; Serial No. 618,101, published Apr. 14, 1953.
Piece Goods. S. Stein & Co., Inc. 576,775, June 30; Serial No. 634,221, published Dec. 30, 1952.
Piece goods, Cotton. Meb Export Co. Inc. 576,694, June 30; Serial No. 625,536, published Dec. 9, 1952.
Piece goods, Cotton. Meb Export Co. Inc. 576,763, June 30; Serial No. 632,891, published Dec. 9, 1952.
Piece goods, Woolen. Fortmann Woolen Co. 302,527, renewed Apr. 25, 1953. O. G. June 30.
Pillow cases, crib sheets, and cheesecloth. Chicopee Mills, Inc. 576,682, June 30; Serial No. 624,125, published Apr. 14, 1953.

CLASS 44

Invalid wheel chairs. Everest & Jennings, Inc. 576,720, June 30; Serial No. 629,193, published Mar. 31, 1953.
Orthopedic arch supports. Le Vibrion Aktiebolag. 576,693, June 30; Serial No. 625,479, published Apr. 7, 1953.
Permanent wave kits. Stanley Home Products, Inc. 576,606, June 30; Serial No. 604,402, published Mar. 31, 1953.
Syringes, Douche. Youngs Rubber Corporation, Inc. 305,912, renewed Aug. 29, 1953. O. G. June 30.
Syringes, water-bottles, catheters, etc. Parker, Stearns & Company. 91,241, re-renewed Apr. 22, 1953. O. G. June 30.

CLASS 45

Beverages, Non-alcoholic, non-cereal, maltless. Foote & Jenks, Inc. 304,811, renewed July 18, 1953. O. G. June 30.

CLASS 46

Alfalfa, Dehydrated. Keystone Dehydrators. 576,746, June 30; Serial No. 631,294, published Apr. 7, 1953.
Alimentary paste products, dried fruits, rice, etc. Golden Grain Macaroni Co. 576,847, June 30; Serial No. 639,222, published Apr. 7, 1953.
Bakery products. Interstate Bakeries Corporation. 576,845, June 30; Serial No. 639,116, published Apr. 7, 1953.
Baking-powder. Morey Mercantile Company. 90,857, re-renewed Mar. 25, 1953. G. G. June 30.
Bird seed. House Of Huston, Inc. 576,879, June 30; Serial No. 637,254.
Buttermilk, Condensed. Borden's Produce Company, Inc. 300,493, renewed Jan. 24, 1953. O. G. June 30.
Candy. Sisco-Hamilton Co. 367,193, May 9, 1939. New certificate. O. G. June 30.
Canned citrus fruit juices. Crosby Fruit Products Company. 576,678, June 30; Serial No. 623,128, published Apr. 7, 1953.
Canned fish and frozen fish. Del Mar Canning Co. 576,850, June 30; Serial No. 640,107, published Apr. 14, 1953.
Canned fruit cocktail, canned fruits and vegetables, canned fruit and vegetable juices, etc. Pratt-Low Preserving Company. 576,874, June 30; Serial No. 627,353.
Canned fruits. Hollister Canning Company. 576,653, June 30; Serial No. 616,821, published Mar. 17, 1953.
Canned fruits and canned vegetables. Mor-Pak Preserving Corporation. 576,639, June 30; Serial No. 613,600, published Apr. 7, 1953.
Canned fruits, vegetables, canned and potted meats, etc. Curtice Brothers Co. 117,837, Aug. 7, 1917. Republished June 30.
Canned salmon. George W. Sanborn & Son. 93,118, re-renewed Aug. 19, 1953. O. G. June 30.
Canned salted peanuts. A. & C. Young Co. 576,642, June 30; Serial No. 614,117, published Apr. 7, 1953.
Canned sardines. Monterey Canning Co. 576,608, June 30; Serial No. 604,919, published Mar. 10, 1953.
Canned seafood. Graham Sea Food Co. 576,830, June 30; Serial No. 637,123, published Apr. 14, 1953.
Canned tomato juice, canned tomato puree, and canned pork and beans. Eaton Canning Company. 576,623, June 30; Serial No. 609,636, published Mar. 31, 1953.
Canned tomato paste, canned tomatoes, and canned sardines. A. J. Capone Company. 302,062, renewed Mar. 28, 1953. O. G. June 30.
Canned vegetables, canned beans and pork, etc. John Rizzo Company. 562,451, July 29, 1952. New certificate. O. G. June 30.
Cereal breakfast food. Seaboard Rice Milling Co. 92,589, re-renewed July 15, 1953. O. G. June 30.
Cheese, butter, dressed poultry, and eggs. Borden Quality, Inc. 298,721, renewed Nov. 1, 1952. O. G. June 30.
Chewing gum. Gum Laboratories, Inc. 444,779, June 30; Serial No. 515,304, published Apr. 7, 1953.
Cocoanut oil, Edible. The Procter & Gamble Company. 576,646, June 30; Serial No. 615,191, published Mar. 17, 1953.
Coffee. Seeman Brothers. 91,039, re-renewed Apr. 8, 1953. O. G. June 30.
Concentrated extracts in liquid or dry form used in flavoring food products. Flavor Corporation of America. 576,719, June 30; Serial No. 629,159, published Apr. 7, 1953.
Confections, Baker's. Zion Industries, Inc. 576,849, June 30; Serial No. 639,972, published Apr. 7, 1953.
Cookies, wafers, and crackers. J. S. Ivins' Son, Inc. 576,500, June 30; Serial No. 536,530, published Apr. 14, 1953.
Cure for bacon. Meat Industry Suppliers, Inc. 576,816, June 30; Serial No. 636,533, published Apr. 14, 1953.
Dried milk mix, Chocolate flavored. Citrus Products Company. 576,655, June 30; Serial No. 617,231, published Mar. 17, 1953.
Egg whites, Frozen, and fresh eggs. Freshie, Inc. 576,624, June 30; Serial No. 609,641, published Mar. 31, 1953.
Enchiladas, Mexican candy, green chili sauce, etc. La Posta De Mesilla. 576,580, June 30; Serial No. 588,866, published Apr. 7, 1953.
Feed, Poultry and animal. Western Condensing Company. 576,573, June 30; Serial No. 581,784, published Mar. 10, 1953.
Feeds, Animal. Nutrena Mills, Inc. 373,153, Nov. 28, 1939. Republished June 30.
Feeds, Poultry and live stock. Zebr & Company. 576,834, June 30; Serial No. 637,512, published Apr. 14, 1953.
Fish and shellfish, Fresh, frozen, and smoked, canned fish, fish paste. W. Wijnbelt. 576,634, June 30; Serial No. 612,478, published Mar. 24, 1953.
Fish, Frozen, and frozen fish fillets. Paul Reinhart Co., Inc. 576,748, June 30; Serial No. 631,375, published Apr. 7, 1953.
Flour, Wheat. Duluth-Superior Milling Company. 88,858, Oct. 29, 1912. Republished June 30.
Flour, Wheat. Pillsbury Mills, Inc. 576,591, June 30; Serial No. 596,191, published Mar. 31, 1953.
Food chips. J. C. Lanning. 576,862, June 30; Serial No. 616,428, published Apr. 7, 1953.
Foods, Frozen. Frozen Farm Products, Inc. 576,774, June 30; Serial No. 634,141, published Apr. 7, 1953.
Fruits, Fresh deciduous. Boehmer, Inc. 576,835, June 30; Serial No. 637,567, published Apr. 7, 1953.
Fruits, Fresh deciduous, fresh citrus fruits, fresh grapes, and fresh vegetables. Hall, Haas & Vessey, Ltd. 576,730, June 30; Serial No. 629,892, published Mar. 31, 1953.
Macaroni. Minnesota Macaroni Company. 576,839, June 30; Serial No. 638,305, published Apr. 14, 1953.
Maple butter, Imitation, and imitation maple peanut butter. W. Bibeau. 576,846, June 30; Serial No. 639,204, published Apr. 7, 1953.
Meat and fish products, Prepared. J. W. Beardsley's Sons. 304,276, renewed June 27, 1953. O. G. June 30.
Melons, Fresh, and fresh vegetables. Haltville Vegetable Company. 576,853, June 30; Serial No. 640,634, published Apr. 14, 1953.
Nuts, Salted, Krispy Kernels, Inc. 576,579, June 30; Serial No. 588,302, published Apr. 7, 1953.
Pecans, Shelled unshelled, toasted, and salted. Dixie Paper Shell Pecan Exchange, Inc. 576,671, June 30; Serial No. 621,708, published Apr. 7, 1953.
Pepper, Cayenne. F. F. Bastida. 576,569, June 30; Serial No. 674,426, published Apr. 7, 1953.
Pickles, jams, jellies, mincemeat, etc. Famous Virginia Foods, Inc. 441,232, Nov. 2, 1948. Republished June 30.
Popcorn dressing. The Albert Dickinson Company. 304,304, renewed June 27, 1953. O. G. June 30.
Poultry, Dressed, and eggs. Borden Quality, Inc. 298,718, renewed Nov. 1, 1952. O. G. June 30.
Rice. Rice Growers Association of California. 576,587, June 30; Serial No. 594,994, published Feb. 27, 1951.
Rice, Packaged. Lexor Corporation. 576,718, June 30; Serial No. 628,862, published Apr. 7, 1953.
Seasoning for gravies, etc. Gravymaster Company, Inc. 576,829, June 30; Serial No. 637,046, published Apr. 7, 1953.
Seed, Bird. J. C. Saleen. 576,807, June 30; Serial No. 636,255, published Apr. 14, 1953.
Soups, vegetables, fruits, etc. Curtice Brothers Co. 56,714, Oct. 16, 1906. Republished June 30.
Strawberry and raspberry preserves, and fresh frozen strawberries and raspberries. Snohomish County Berry Growers Association. 576,099, June 30; Serial No. 626,056, published Mar. 17, 1953.
Sugar. The Nulomoline Company. 303,103, renewed May 9, 1953. O. G. June 30.
Sugar, Small cubes of cane. Imperial Sugar Company. 576,576, June 30; Serial No. 587,033, published Apr. 14, 1953.
Vegetables, Frozen. Bay City Freezer, Inc. 576,848, June 30; Serial No. 639,408, published Apr. 7, 1953.

CLASS 48

Beer. Miller High Life Company. 305,854–5, renewed Aug. 29, 1953. O. G. June 30.
Beer. Miller High Life Company. 305,871, renewed Aug. 29, 1953. O. G. June 30.

CLASS 49

Brandy. Adet Seward (Ste Anonyme). 304,009, renewed June 13, 1953. O. G. June 30.
Gin. Hulstkamp & Zoon & Moltjn. 303,211, renewed May 16, 1953. O. G. June 30.
Liqueurs. La Union Agricola Sociedad Anonima. 93,543, re-renewed Sept. 23, 1953. O. G. June 30.
Rum. Compania Ron Bacardi, S. A. 302,916, renewed May 2, 1953. O. G. June 30.
Whiskey. Distillers Corporation Limited. 300,206, renewed Jan. 10, 1953. O. G. June 30.
Whiskey and other potable distilled liquors. J. & W. Nicholson & Co. Limited. 305,798, renewed Aug. 22, 1953. O. G. June 30.

CLASS 50

Blank printing plates, Mounted and unmounted. Farrington Manufacturing Company. 576,688, June 30; Serial No. 624,481, published Mar. 17, 1953.
Figurines, Miniature animal. The Mortens Studio. 576,710, June 30; Serial No. 628,117, published Mar. 10, 1953.
Paper liners, Coated drab. Standard Cap and Seal Corporation. 576,593, June 30; Serial No. 598,121, published Mar. 10, 1953.
Plastic film. Columbus Coated Fabrics Corporation. 576,602, June 30; Serial No. 601,712, published Mar. 10, 1953.
Plastic table mats. Bernhard Ulmann Co. Inc. 576,732, June 30; Serial No. 630,244, published Mar. 10, 1953.
Statues, statuettes, statuary, etc. A. E. Hauck. 576,578, June 30; Serial No. 588,173, published Mar. 10, 1953.
Trophies, medals, cups, etc. Universal Sports Corporation. 576,664, June 30; Serial No. 621,092, published Mar. 10, 1953.
Troughs for pigs and hogs, Feeding and watering. H. S. Brembeck. 576,765, June 30; Serial No. 633,254, published Apr. 7, 1953.

CLASS 51

Astringent. F. N. Lewis. 205,534, Nov. 10, 1925. Republished June 30.
Eau de cologne. Lever Brothers Company. 576,712, June 30; Serial No. 628,408, published Mar. 31, 1953.
Eau de cologne. Lever Brothers Company. 576,713–16, June 30; Serial Nos. 628,410–13, published Mar. 31, 1953.
Face powder. Elizabeth Arden, Inc. 290,219, Dec. 22, 1931. Republished June 30.
Hair waving cream. G. C. Staber. 374,935, Jan. 30, 1940. Republished June 30.
Lipsticks. Elizabeth Arden, Inc. 289,493–4, Dec. 1, 1931. Republished June 30.
Lipsticks. Elizabeth Arden, Inc. 289,617, Dec. 1, 1931. Republished June 30.
Perfume, toilet water, skin creams, etc. Elizabeth Arden, Inc. 249,444, Nov. 13, 1928. Republished June 30.
Perfumery. G. Dralle. 301,897, renewed Mar. 21, 1953. O. G. June 30.
Perfumes. E. Schnyder. 576,572, June 30; Serial No. 580,950, published Apr. 14, 1953.
Preparation for reconditioning the hair. K & J Co. 576,740, June 30; Serial No. 630,783, published Apr. 14, 1953.
Preparation for the treatment of dandruff, etc. S. M. Baltzly. 201,623, Aug. 4, 1925. Republished June 30.
Preparations for the treatment of the hair. A. F. Fodertingham. 303,551, renewed Aug. 22, 1953. O. G. June 30.
Rouge, Liquid and cream. F. N. Lewis. 205,535, Nov. 10, 1925. Republished June 30.
Skin cream, skin tonic, muscle oil, etc. Elizabeth Arden, Inc. 252,449, Feb. 5, 1929. Republished June 30.
Toilet creams. Creme Simon Anciennement J. Simon & Cie, Societe Anonyme. 576,558, June 30; Serial No. 512,997, published Mar. 31, 1953.
Toilet powder. Elizabeth Arden, Inc. 283,974, June 9, 1931. Republished June 30.

CLASS 52

Chemical product in granular form for cleaning machinery, etc. The Diversey Corporation. 576,696, June 30; Serial No. 625,664, published Apr. 14, 1953.
Cleaner, cleanser, and detergent, Sudsing. The Procter & Gamble Company. 576,691, June 30; Serial No. 624,960, published Apr. 14, 1953.
Cleaner, Porcelain enamel. G. N. Coughlan Company. 576,771, June 30; Serial No. 633,837, published Apr. 14, 1953.
Cleaning compound. The Diversey Corporation. 576,805, June 30; Serial No. 636,168, published Apr. 14, 1953.
Cleaning preparation. Sage Laboratories, Inc. 576,604, June 30; Serial No. 602,718, published Apr. 21, 1953.
Cleaning solution, Surface active industrial. C. W. Smith. 576,601, June 30; Serial No. 601,471, published Apr. 21, 1953.
Detergent. The Great Atlantic and Pacific Tea Company. 576,821, June 30; Serial No. 636,785, published Apr. 14, 1953.
Detergent compositions. Diamond Alkali Company. 576,648, June 30; Serial No. 615,485, published Apr. 14, 1953.
Paint and varnish removers. General Paint & Varnish Company Inc. 178,294, Jan. 8, 1924. Republished June 30.
Paint strippers, cleaning compounds of general application and compounds for cleaning metals, etc. Petron Corporation. 576,782, June 30; Serial No. 634,733, published Apr. 14, 1953.
Saponaceous material used as an ingredient of soap. Fischer's Surfa-Saver, Inc. 301,948, renewed Mar. 21, 1953. O. G. June 30.
Shampoo. The Gillette Company. 576,780, June 30; Serial No. 634,586, published Apr. 14, 1953.
Skin cream, skin tonic, muscle oil, etc. Elizabeth Arden, Inc. 252,449, Feb. 5, 1929. Republished June 30.
Soap, Powdered, flaked soap, bar soap, etc. Peck's Products Company. 576,751, June 30; Serial No. 631,565, published Apr. 14, 1953.
Soaps. Donald Barry Productions, Inc. 576,656, June 30; Serial No. 617,851, published Apr. 14, 1953.
Stripping and cleaning compound. A. L. Wilson Chemical Company. 576,649, June 30; Serial No. 615,310, published Apr. 14, 1953.

CLASS 100

Beauticians' services. Helena Rubinstein, Inc. 576,858, June 30; Serial No. 614,958, published Apr. 14, 1953.
Engineering and consulting services to the needle-trade industries. The Singer Manufacturing Company. 576,860, June 30; Serial No. 629,097, published Apr. 7, 1953.
Stimulation and maintenance of interest in academic and fraternal affairs, etc. The Fraternity of Phi Gamma Delta. 576,863, June 30; Serial No. 633,280, published Apr. 7, 1953.

CLASS 101

Acting as independent agent in connection with the advertising and sale of radio broadcasting time. Indie Sales, Inc. 576,857, June 30; Serial No. 612,914, published Apr. 7, 1953.
Collection, analysis, and dissemination in statistical form of information on the economic condition and progress of the industry, etc. National Paper Box Manufacturers Association, Incorporated. 576,856, June 30; Serial No. 604,214, published Apr. 7, 1953.
Selling of advertising time on radio broadcasting stations. Keystone Broadcasting System, Inc. 576,855, June 30; Serial No. 600,289, published Apr. 7, 1953.

CLASS 103

Sharpening, re-sharpening, salvaging, and rehabilitating cutting tools. Globe Engineering Company. 576,861, June 30; Serial No. 634,142, published Apr. 14, 1953.
Shoe repairing. Zinke Rebottoming Shoe Company, Inc. 576,859, June 30; Serial No. 616,837, published Apr. 14, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bartleson, John D., Beachwood Village, assignor to The Standard Oil Company, Cleveland, Ohio. Processing solvent-extracted lubricating oil by treating with phosphorus pentasulfide and a base and the resulting products. Re. 23,676, June 30.
Bartleson, John D., Beachwood Village, assignor to The Standard Oil Company, Cleveland, Ohio. Processing lubricating oil by treating with sulfuric acid, a phosphorus sulfide and a base and the resulting products. Re. 23,677, June 30.
Edi Holding, Inc., assignee: *See*—
Spierer, Edward D.
Penrose, William F., Birmingham, Mich. Electric power apparatus for steering and the like. Re. 23,673, June 30.
Spence Engineering Company, Inc., assignee: *See*—
Spence, Paulsen.
Spence, Paulsen, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y. Pilot-operated valve. Re. 23,675, June 30.
Spierer, Edward D., assignor to Edi Holding, Inc., Brooklyn, N. Y. Drying apparatus. Re. 23,674, June 30.
Standard Oil Company, The, assignee: *See*—
Bartleson, John D.
Turner, Alonzo R., Cottage Grove, Wis. Cover lift hinge. Re. 23,678, June 30.

LIST OF DESIGN PATENTEES

Aldlin, Samuel S.: *See*—
Mitchell, Charles W., and Aldlin.
Ajax Engineering Corporation, assignee: *See*—
Tama, Mario.
Badilio, Emilio R., Detroit, Mich. Watch chain ornament. 169,925, June 30.
Barr, Irwin R.: *See*—
Jacobson, Joel M., Barr, and Tousignan.
Berke Brothers Distilleries Inc., assignee: *See*—
Berkowits, Hyman C.
Berkowits, Hyman C., Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass. Decanter. 169,926, June 30.
Broyles, Neva L., Henderson, Nev. Animal figure toy. 169,927, June 30.
Brunswick-Balke-Collender Company, The, assignee: *See*—
Chapman, David, and Reineman.
Button, Helen L., Chicago, Ill. Lingerie holder. 169,928, June 30.
Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Adjustable fastener. 169,929, June 30.
Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Chair or the like. 169,930, June 30.
Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Chair or the like. 169,931, June 30.
Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Combination table-chair unit or the like. 169,932, June 30.
Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Table or the like. 169,933, June 30.
Coon, Herbert, Great Neck, assignor to Red Wing Products, Bellerose, N. Y. Garment hanger. 169,934, June 30.
Derby, John H., Scarsdale, N. Y. Thermostatic fire alarm switch. 169,935, June 30.
Doman, Donald W.: *See*—
Girardy, Alfred B., Norby, and Doman.
Easy Washing Machine Corporation, assignee: *See*—
Welcher, William H., and Mundt.
Fischer, Joseph, Pelham Manor, N. Y. Rearview mirror. 169,936, June 30.
General Motors Corporation, assignee: *See*—
Wogoman, Jack E.
Gey, William H., Boston, Mass. Lighter fuel filler. 169,937, June 30.
Girardy, Alfred B., Park Forest, C. V. Norby, Chicago, and D. W. Doman, Harvey, assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 169,938, June 30.
Henning, Paul F. W., Chicago, Ill. Seal. 169,939, June 30.
Jacobson, Joel M., I. R. Barr, and E. J. Tousignan, Baltimore, Md. Combination drafting table, desk, and bookrack. 169,940, June 30.
Jaeger, Kurt P. Miami, Fla. Calculator. 169,941, June 30.
Lingle, Odin: *See*—
Mall, Arthur W., and Lingle.
Little, Albertus W., Campbell, Calif. Apparel belt. 169,942, June 30.
Mall, Arthur W., Flossmoor, and O. Lingle, assignors to Mall Tool Company, Chicago, Ill. Gasoline engine. 169,943, June 30.
Mall Tool Company, assignee. *See*—
Mall, Arthur W., and Lingle.
Mitchell, Charles W., and S. S. Aldlin, New York, N. Y. Thermostatic fire alarm switch. 169,944, June 30.
Mundt, Stuart G.: *See*—
Welcher, William H., and Mundt.
Norby, Clarence V.: *See*—
Girardy, Alfred B., Norby, and Doman.
O'Neill, Jamee A., Chelsea, Mass. Illuminable traffic signal or similar article. 169,945, June 30.
Plotkin, Frederic P., Los Angeles, Calif. Wheel cover. 169,946, June 30.
Pullman-Standard Car Manufacturing Company, assignee: *See*—
Girardy, Alfred B., Norby, and Doman.
Punzak, Joseph F., assignor to United Metal Goods Manufacturing Co., Inc., Brooklyn, N. Y. Clock. 169,947, June 30.
Quintana, Tomás D., Whites City, N. Mex. Chair. 169,948, 169,948, June 30.
Red Wing Products, assignee: *See*—
Coon, Herbert.
Reineman, Richard G.: *See*—
Chapman, David, and Reineman.
Rose, Ben, Highland Park, Ill. Textile fabric or similar article. 169,949, June 30.
Suess, Herbert M., Rockledge, Pa. Stocking. 169,950, June 30.
Talon, Inc., assignee: *See*—
Carlile, Alfred E.
Tama, Mario, Morrisville, Pa., assignor to Ajax Engineering Corporation. Combined holding furnace and automatic pouring unit. 169,951, June 30.
Thompson, Louis, Bandera, Tex. Tableware tray. 169,952, June 30.
Tousignan, Eugene J.: *See*—
Jacobson, Joel M., Barr, and Tousignan.
United Metal Goods Manufacturing Co., Inc., assignee: *See*—
Punzak, Joseph F.
Welcher, William H., North Syracuse, and S. G. Mundt, assignors to Easy Washing Machine Corporation, Syracuse, N. Y. Panel for laundry apparatus. 169,953, June 30.
Willys Motors, Inc., assignee: *See*—
Wright, Philip O.
Wogoman, Jack E., assignor to General Motors Corporation, Dayton, Ohio. Window mounted air conditioning unit. 169,954, June 30.
Wright, Philip O., Clawson, Mich., assignor, by mesne assignments, to Willys Motors, Inc., Toledo, Ohio. Vehicle. 169,955, June 30

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbondandolo, Lawrence, Brooklyn, N. Y. Pneumatic horn or signal. 2,643,633, June 30.

Abbott, Curson G., Elkhart, Ind. Eye protective device. 2,643,381, June 30.

Aberg, Thoraten, Goteborg, Sweden. Hypodermic syringe. 2,643,654, June 30.

Ackermann, Albert J., Kirkwood, assignor to Viko, Inc., Clayton, Mo. Hose nozzle shield. 2,643,668, June 30.

Ackley, Amos, Camden, N. J. Wire stripping implement. 2,643,561, June 30.

Adair, William P.: *See*—
Dietert, Harry W., Adair, and Zirzow.

Adams, Charles J., Park Ridge, assignor to American Phenolic Corporation, Chicago, Ill. Pressure contact. 2,644,145, June 30.

Addressograph-Multigraph Corporation, assignee: *See*—
Gollwitzer, Walter T.

Adrema Limited, assignee: *See*—
Kerr, Robert L.

Ads Metal Products Co., Inc., assignee: *See*—
Schwarz, Fred.

Ahlmeyer, Heinz, Tappan, and W. D. Sherman, West Nyack, assignors to Robert Gair Company Inc., New York, N. Y. Machine for assembling paperboard partitions. 2,643,590, June 30.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Andersen, John H., Jr.
Holzwarth, Hans T.

Albano, Edmond, New York, N. Y. Multiple extension dron-leaf table. 2,643,924, June 30.

Albrecht, Alexander J., West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Front stop assembly. 2,643,881, June 30.

Alderman, Mattison W., W. F. Massmann, Jr., and E. W. Michael, Battle Creek, Mich., assignors to General Foods Corporation, New York, N. Y. Rice process. 2,643,951, June 30.

Alford Cartons, assignee: *See*—
Vines, Oscar L.

All American Engineering Company, assignee: *See*—
Janney, Raymond B., II.

Allen, George H.: *See*—
Lynes, John, Allen, and Gardner.

Allen, Philip H., Orinda, Calif., and B. J. Chromy, Washington, D. C. Optical summation and decimal structures. 2,643,822, June 30.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Fergason, Rector C.

Amal Limited, assignee: *See*—
Smith, Cyril R. B., and Izon.

Ambroise, Edmond, Rennes, France. Empennage control structure. 2,643,833, June 30.

American Air Filter Company, Inc., assignee: *See*—
Logsdon, Robert F.

American Brake Shoe Company, assignee: *See*—
Magnus, Oscar F.

American Can Company, assignee: *See*—
Nordquist, Ronald E. J.
Socke, John E.
Wobbe, Delbert E.

American Car and Foundry Company, assignee: *See*—
Nichols, Ralph G.

American Cyanamid Company, assignee: *See*—
Gieseke, Elmer W.
Hoegberg, Erick I.
McCormick, Jerry R. D., and Muller.
Parker, Robert P., and Smith.

American Instrument Company, Inc., The, assignee: *See*—
Hadady, Robert E.

American Laundry Machinery Company, The, assignee: *See*—
Spreckelmeier, Edwin H.

American Machine Development Corporation, assignee: *See*—
Eisemann, Oswald E.

American Optical Company, assignee: *See*—
Busch, Rudolph E.

American Phenolic Corporation, assignee: *See*—
Adams, Charles J.

American Seating Company, assignee: *See*—
Wills, Sumner C., and Brulin.

Anaconda Wire and Cable Company, assignee: *See*—
Snyder, Clermont J., and MacLelland.

Andersen, John H., Jr., Greenwood Lake, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force. Integrating accelerometer. 2,643,870, June 30.

Anderson, Tilman R., Viroqua, Wis. Shelf. 2,643,931, June 30.

Andres, Lloyd J., assignor, by mesne assignments, to United Manufacturing Company, Chicago, Ill. Phonograph tone arm. 2,643,887, June 30.

Anglo-Iranian Oil Company Limited, assignee: *See*—
Porter, Frederick W. B., and Northcott.

Anthony, William R., San Juan, P. R. High fidelity loudspeaker cabinet. 2,643,728, June 30.

Antonevich, Michael, assignor to The Crawford Manufacturing Company, Inc., New Brunswick, N. J. Hole detector for circular knitting machines of the rib type. 2,643,534, June 30.

Apel, George E., Belmont, Mass., and D. F. Collins, Pontiac, Mich., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass. Removing vulcanizing drum and pressure band from continuous vulcanizing machines. 2,643,444, June 30.

Arbuckle, Frederick M., Allenhurst, N. J., assignor to Radio-Television Institute, Inc., New York, N. Y. Punch with slug extracting means. 2,643,721, June 30.

Armour and Company, assignee: *See*—
Bradshaw, Sidney B.

Armstrong, James A., Randwick, New South Wales, Australia. Collar stiffener. 2,643,387, June 30.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Maresca, Peter T., and Stokes.
Merriam, Myron.

Arnolt Corporation, assignee: *See*—
Brown, William N.

Arrow-Hart & Hegeman Electric Company, The, assignee: *See*—
Dietrich, Walter L.

Aruth, Violet J., Saddle River Township, N. J. Dispenser. 2,644,072, June 30.

Ashlock, George W., Jr., Oakland, Calif. Machine for stuffing olives. 2,643,694, June 30.

Ashworth, Thomas, and Company Limited, assignee: *See*—
Stanworth, Stephen.

Askania Regulator Company, assignee: *See*—
Glass, Paul.

Associated Motorists Petrol Company Limited, assignee: *See*—
Todd, Bryan James, Turner and Broberg.

Atkinson, Ralph L., Westfield, N. J., assignor to Personal Products Corporation. Sanitary napkin. 2,643,656, June 30.

Atlantic Coast Fisheries Company, The, assignee: *See*—
Crowther, Harold E., and Hopkinson.

Auldridge, Dexter D., assignor of one-half to A. S. Tennant, South Charleston, W. Va. Making fishing lures. 2,643,418, June 30.

Auspos, Lawrence A., Tonawanda, N. Y., and J. B. Dempster, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Cerium esterification catalyst. 2,643,989, June 30.

Auten, Noel E., Wyndmoor, assignor to Metal Specialties, Inc., Philadelphia, Pa. Device for washing articles such as drinking glasses. 2,643,659, June 30.

Automatic Electric Laboratories, Inc., assignee: *See*—
Grandstaff, Otho D.
Lomax, Clarence E.
MacDonald, Duncan N.
Sands, Roy G.

Automatic X-Ray Corporation, assignee: *See*—
Roop, Harold D.

Avco Manufacturing Corporation, assignee: *See*—
Briggs, Arthur T.
Maher, Richard A., Oliver and Wedig.

Avins, Jack, New York, N. Y., assignor to Radio Corporation of America. Automatic gain control system. 2,644,082, June 30.

B. B. Chemical Co., assignee: *See*—
Morris, Thomas C., and Johnson.

Babcock & Wilcox Company, The, assignee: *See*—
Schoessow, Glen J.

Behlsen, Werner, assignee: *See*—
Lange Ferdinand.

Bailey Meter Company, assignee: *See*—
Powell, William, Jr.

Bailey, Vincent R., Chestnut Hill, Mass., assignor to The Gillette Company. Blade dispensing magazine. 2,643,763, June 30.

Baker, Allister L., Jersey City, assignor to Keuffel & Esser Company, Hoboken, N. J. Adjustable leveling screw. 2,643,845, June 30.

Baker, Leonard, Hilladale, N. J., assignor by mesne assignments, to Filmsort Inc. Apparatus for mounting inserts in cards. 2,643,786, June 30.

Baker, Paul E., Grosse Pointe Farms, Mich., assignor to The Budd Company, Philadelphia, Pa. Making composite brake drums. 2,643,445, June 30.

Baker, Theodore C., Perrysburg, Ohio, assignor to Embart Manufacturing Company. Apparatus for detecting checks in the rim or finish portions of glass containers. 2,643,767, June 30.

Ball, Alpheus M., Wilmington, Del., assignor by mesne assignments, to United States of America as represented by the Secretary of War. Large grain smokeless powder. 2,643,611, June 30.

Ballou, Richard P., Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J. Electrical receptacle having screw-type socket and center contact guide. 2,644,143, June 30.

Balluteen, Musa S., Brooklyn, N. Y. Cooking machine. 2,643,603, June 30.

Barker, Maurice E., Washington, D. C. Container for holding and dispersing incendiary articles which contain phosphorous. 2,643,928, June 30.

Barnes, William A., Utica, N. Y., assignor to Utica Drop Forge & Tool Corporation. Slidable side jaw wrench. 2,643,569, June 30.

Barth, Robert H., Ridgewood, N. J., assignor to Heyden Chemical Corporation, New York, N. Y. Producing polyhydric alcohol ethers from hemiformals and carbonyl compounds. 2,644,013, June 30.

Bartlett, Paul D., Weston, Mass., assignor by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Alkaline hydrolysis of hexachlorobenzene. 2,644,015, June 30.

Barusch, Maurice R., Richmond, assignor to California Research Corporation, San Francisco, Calif. Fuel composition containing N,N'-dimethyl phenylene diamine to prevent knocking. 2,643,942, June 30.

Bates, Jack R., San Anselmo, Calif. Supporting strap for cameras or binoculars. 2,643,803, June 30.

Bauer, Alois, Brooklyn, N. Y. Centrifugal coating applying machine. 2,643,636, June 30.

Baxter, Thomas R., Mount Vernon, Ohio, assignor to Shellmar Products Corporation, Chicago, Ill. Nursing unit assembling tool. 2,643,449, June 30.

Bay State Abrasive Products Co., assignee: *See*—
Buckner, Orello S.

Bayer, Otto: *See*—
Kleiner, Helmut, Bayer, and Becht.

Beach, Earl F.: *See*—
Wallace, James M., and Beach.

Beall, Floyd E., Mount Shasta, Calif. Vertically adjustable table. 2,643,923, June 30.

Beattie, Arthur, San Bernardino, Calif. Retroverted passage type exhaust silencer. 2,643,730, June 30.

Beaufoy, Raymond, assignor to British Telecommunications Research Limited, Taplow, England. Electric wave distorting network. 2,644,037, June 30.

Beasley, Charles, Chicago, Ill. Acoustic sleep-inducing apparatus. 2,644,153, June 30.

Becht, Benno: *See*—
Kleiner, Helmut, Bayer, and Becht.

Beers, Bobbie E., Sweet Home, Oreg., and S. G. Snortland, Valier, Mont. Measuring device for pistons in depth engines. 2,643,459, June 30.

Becker, Philip D., Bingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Device for attaching hubcaps. 2,643,918, June 30.

Bell, Persa R., Jr., Cambridge, Mass., assignor by mesne assignments, to the United States of America as represented by the Secretary of War. Instantaneous automatic gain control circuit. 2,644,083, June 30.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Boardman, Edward M., and Wooley.
Branson, David E.
Jones, Theodore A.

Belshaw, Thomas E., Seattle, Wash. Dough former. 2,643,621, June 30.

Bendix Aviation Corporation, assignee: *See*—
Konet, Henry.
Miller, Donald L.
Peterson, Joel D.

Berger, Jacob, New York, N. Y. Running gear unit with removable chair. 2,643,702, June 30.

Bernet, Edwin J., Washington, D. C. Expansion joint for coaxial lines. 2,644,028, June 30.

Bethlehem Steel Company, assignee: *See*—
Kovatch, Robert J.
Stelling, John H.

Billow, Arthur H., assignor to Landis Machine Company, Waynesboro, Pa. Machine for forming and threading bolts, screws, and the like. 2,643,402, June 30.

Blair, David, Chicago, Ill. Shoulder strap holder. 2,643,380, June 30.

Bliss, William R., Washington, D. C. Antenna system. 2,644,089, June 30.

Bludeau, Robert E.: *See*—
Powers, John B., and Bludeau.

Blue Ridge Glass Corporation, assignee: *See*—
Glynn, Theodore W.

Blumensaadt, Svend G., Beachwood Village, assignor to The Universal Wire Spring Company, Cleveland, Ohio. Apparatus for wire springs. 2,643,758, June 30.

Boardman, Edward M., Mountain Lakes, and M. C. Wooley, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Capacitor. 2,644,122, June 30.

Boehm, Frederick, assignor to Schutte & Koerting Co., Philadelphia, Pa. Protective cage structure for tubular gauges. 2,643,546, June 30.

Bolding, Hubert V., Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky. Display carton. 2,643,811, June 30.

Bolton, Otto, Denver, Colo. Sausage perforating machine. 2,643,414, June 30.

Bond, Donald S., Princeton, N. J., assignor to Radio Corporation of America. Frequency control system. 2,644,138, June 30.

Bonebrake, Gay M., assignor to Wm. Wrigley, Jr., Company, Chicago, Ill. Severing mechanism. 2,643,619, June 30.

Borax Consolidated, Limited, assignee: *See*—
Connell, George A.

Borgna, Cesare G., Piperolo, Italy. Articulated transmission belt for V-groove pulleys. 2,643,550, June 30.

Bornmann, Adelaide: *See*—
O'Brien, George E., Bornmann, and Smith.

Bortner, David C., York, Pa., assignor to Read Standard Corporation. Endless conveyer. 2,643,760, June 30.

Boston Woven Hose and Rubber Company, assignee: *See*—
Apel, George E., and Collins.

Bouch, Frank, Shippenville, Pa. Artificial stone wall facing. 2,643,539, June 30.

Bowen, Kenneth H.: *See*—
Patterson, Oliver W., and Bowen.

Bowers, Frank, Williamsville, and R. S. Brookman, East Aurora, assignors to Dustex Corporation, Buffalo, N. Y. Apparatus for separating particles from gases. 2,643,737, June 30.

Bowser, Percy L., Jr.: *See*—
Venner, William M., and Bowser.

Boyd, Thomas, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Aminoplasts modified with titanium polymers. 2,643,984, June 30.

Bracy, Benjamin F.: *See*—
Daley, Edward A., Mueller, and Bracy.

Bradley & Gilbert Company, The, assignee: *See*—
Bolding, Hubert V.

Bradley, Harry, assignor to John Waddington Limited, Leeds, England. Carton, for round-ended articles. 2,643,814, June 30.

Bradley, Schuyler L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,644,127, June 30.

Bradshaw, Sidney B., assignor to Armour and Company, Chicago, Ill. Suture package. 2,643,765, June 30.

Branson, David E., Morriston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Keyboard mechanism for teletypewriters. 2,644,038, June 30.

Braun, C. F., & Co., assignee: *See*—
White, Gerald A., and Williamson.

Braunsdorff, Reginald K., East Orange, assignor to Tung-Sol Electric Inc., Newark, N. J. Sealed lighting unit and method of manufacture. 2,644,100, June 30.

Bray, Malcolm D., Noblesville, assignor to Eli Lilly and Company, Indianapolis, Ind. Stable antibiotic solutions. 2,643,998, June 30.

Bray, Peter E.: *See*—
Westbury, Roy, Bray, and Packenham.

Brendel, Raymond J., assignor of forty percent to J. Cantor, Buffalo, N. Y. Dry wall construction. 2,643,423, June 30.

Brewer, Carl T.: *See*—
Scranton, Clifford B., and Brewer.

Briggs, Arthur T., South Williamsport, Pa., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Engine starter having combustion chamber supplied with fuel and combustion supporting medium for constant ratio by weight. 2,643,511, June 30.

Briggs, Thomas R.: *See*—
Moulton, Joseph D., Schweitzer, and Briggs.

Briney, Ottis R., Jr., Pontiac, Mich. Boring tool. 2,643,556, June 30.

British Celanese Limited, assignee: *See*—
Taylor, Matthew M.

British Telecommunications Research Limited, assignee: *See*—
Beaufoy, Raymond.

Broadbent, John H., Washington, D. C., and H. E. Ober, Takoma Park, Md., assignors to the United States of America as represented by the Secretary of the Navy. 400 cycle electrohydraulic steering system for guided missiles. 2,644,124, June 30.

Broberg, Robert E.: *See*—
Todd, Bryan J., Turner, and Broberg.

Brook, Leonard, Beeston, Leeds, assignor to The Forgrove Machinery Company Limited, Leeds, England. Wrapping machine. 2,643,500, June 30.

Brookman, Roger S.: *See*—
Bowers, Frank, and Brookman.

Brown Citrus Machinery Corp., assignee: *See*—
Harden, Carl.

Brown, David, New York, N. Y. Sand-anchoring device. 2,643,843, June 30.

Brown, Garnet L., Jamison, Pa. Pry type closure remover with piercing prong. 2,643,540, June 30.

Brown, Guy E., Houston, Tex. Deflecting tool. 2,643,859, June 30.

Brown, Walter E.: *See*—
Harrison, Stuart A., and Brown.

Brown, William N., Fort Wayne, assignor to Arnolt Corporation, Warsaw, Ind. Tubular furniture construction. 2,643,706, June 30.

Brown, William N., Fort Wayne, assignor to Arnolt Corporation, Warsaw, Ind. Tubular furniture construction. 2,643,707, June 30.

Bruckman, William C., Bergenfield, M. A. Kreitchman, Irvington, and W. J. Olson, Bloomfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Washing machine provided with resilient vibration control door sealing means. 2,643,538, June 30.

Brulin, Laurence W.: *See*—
Willis, Sumner C., and Brulin.

Bryant, Austin U., Berkeley, assignor to Grove Regulator Company, Oakland, Calif. Liquid flow syatem and apparatus. 2,643,670, June 30.

Brzozowski, Evelyn, Stepney, Conn. Lady's girdle. 2,643,383, June 30.

Buccasio, Nicholas A., Binghamton, N. Y. Suction cleaning tool. 2,643,413, June 30.

Bucher, Rudolph S., Upper Darby, Pa. Game instruction apparatus. 2,643,466, June 30.

Buchholz, William M., Miami, Fla. Fishing line washing and drying reel. 2,643,660, June 30.

Buck, Herman H., Grand Rapids, Minn. Anchor. 2,643,630, June 30.

Buckner, Orello S., Northboro, assignor to Bay State Abrasive Products Co., Westboro, Mass. Reinforced abrasive articles and making the same. 2,643,945, June 30.

Budd Company, The, assignee: *See*—
Baker, Paul E.
Ruska, William E.
Whitesell, John C.

Budish, Melvin, Worcester, Mass. Artificial teeth. 2,643,453, June 30.

Buitelaar, François, Vlaardingen, assignor to N. V. "De Zilbervisch," Rotterdam, Netherlands. Preparing essence D'Orient or pearl tincture. 2,644,001, June 30.

Bullard Company, The, assignee: *See*—
Bullard, Edward P., III.

Bullard, Edward P., III. Fairfield, Conn., assignor to The Bullard Company. Machine tool centering device. 2,643,571, June 30.

Bunce, John P., Rocheater, N. Y. Container having a movable bottom. 2,643,662, June 30.

Burdick, Ruth, assignee: *See*—
Wittstock, Alfred G.

Burgess, Russell H., assignor to Drying Systems, Inc., Chicago, Ill. Bread cooling and conditioning system. 2,643,523, June 30.

Burn, Philip H., Forest Hills, N. Y. Automatic traffic directing device for garages. 2,644,150, June 30.

Burndy Engineering Co. Inc., assignee: *See*—
Dupre, Henry P.
Matthysse, Irving F., and Pellier.

Burroughs, Edwin E., Brooklyn, assignor to St. Regis Paper Company, New York, N. Y. Mechanism and method for forming sleeved valve bags. 2,643,588, June 30.

Burroughs, Kenneth C., Plainville, Mass., assignor to Burroughs Optomat, Inc., New York, N. Y. Lens finishing machine. 2,643,490, June 30.

Burroughs, Kenneth C., Plainville, Mass., assignor to Burroughs Optomat, Inc., New York, N. Y. Grinding machine. 2,643,491, June 30.

Burroughs, Kenneth C., Plainville, Mass., assignor to Burroughs Optomat, Inc., New York, N. Y. Grinding machine and method. 2,643,492, June 30.

Burroughs Optomat, Inc., assignee: *See*—
Burroughs, Kenneth C.

Burrows, Miles G., Bradford, England. Collapsible container. 2,643,788. June 30.

Burt, Guy H., assignee: *See*—
Richardson, Arthur A.

Burt, Harry M., assignee: *See*—
Richardson, Arthur A.

Busch, Rudolph E., Detroit, Mich., assignor to American Optical Company, Southbridge, Mass. Artificial eye. 2,643,392, June 30.

Buschow, Herman F., North Arlington, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Recuperative heat exchanger and producing same. 2,643,863, June 30.

C. E. M. Company, assignee: *See*—
Knehl, Herman, and Prym.

Caferro, Edward M., assignor to Columbia Electric and Manufacturing Company, Spokane, Wash. Outdoor fixture for tubular lights. 2,644,027, June 30.

Cahill, Lysle D.: *See*—
Jack, William R., and Cahill.

Cal-Alloy Castings, Inc., assignee: *See*—
Dunn, John W.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Alkoxyalkyl esters of bis(4-carboxyphenyl) sulfone and cellulose esters plasticized therewith. 2,643,954, June 30.

California Research Corporation, assignee: *See*—
Barusch, Maurice R.

Campbell Wyant and Cannon Foundry Co., assignee: *See*—
Wagner, Frederick A., Pierce, and Gedmin.

Canon Camera Company, Ltd., assignee: *See*—
Suzukawa, Hiroshi.

Cantor, Jerome, assignee: *See*—
Brendel, Raymond J.

Carissimi, Louis C., Fairfield, Conn., assignor to Remington Rand Inc., New York, N. Y. Electric dry shaver. 2,643,433, June 30.

Carlson, Melvin G., assignor to Goodman Manufacturing Company, Chicago, Ill. Fluid pressure system. 2,643,516, June 30.

Carroll, Charles E., Dayton, Ohio. Personnel parachute harness. 2,643,836, June 30.

Carroll, Laurence S., Great Neck, N. Y. Flexible inflatable and deflatable globe and manufacture. 2,643,598, June 30.

Cartier, Effie M., executrix: *See*—
Cartier, Lionel R.

Cartier, Lionel R., deceased; E. M. Cartier and N. J. Gundlach, executors, assignors to Independent Engineering Company, Inc., O'Fallon, Ill. Absorber for use in treating gases. 2,643,525, June 30.

Case, J. I., Company, assignee: *See*—
Russell, Stanley D.

Cash, Wilfrid E., Cheam, and W. H. Gell, Hull, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Continuous esterification process. 2,644,009, June 30.

Castle & Cooke, Limited, assignee: *See*—
Hoyt, Simes T.

Cathcart, Jack F., assignor of one-half to F. P. Moffett, Berkeley, Calif. Mouth protector. 2,643,652, June 30.

Cavalero, John V., Bloomfield, N. J. Recessed book cover. 2,643,899, June 30.

Central Machine Works, Inc., assignee: *See*—
Milne, Arthur C.

Charbonneau, Allan P., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Mounting device for wall openings in electric heating devices. 2,644,071, June 30.

Chatham Electronics Corporation, assignee: *See*—
Watrous, Ward W., Jr.

Cheatham, Thomas P., Jr.: *See*—
Lee, Yuk Wing, Wleaner, and Cheatham.

Chemstrand Corporation, The, assignee: *See*—
Gluesenkamp, Earl W., and Craig.
Ham, George E.
Ham, George E., and Craig.

Chester, Milton A., assignor to The Development-Research Corporation, Los Angeles, Calif. Hardness tester. 2,643,544, June 30.

Chicago Coin Machine Co., assignee: *See*—
Koci, Jerry C.

Chicago Pneumatic Tool Company, assignee: *See*—
Lear, Earl B.

Chowning, Dale K., Mountain View, Mo. Motor vehicle frame mounting means. 2,643,897, June 30.

Christie, Soren L., and F. C. Marshall, Los Angeles, Calif., assignors to McColpin-Christie Corp. Battery testing method. 2,644,132, June 30.

Chromy, Benjamin J.: *See*—
Allen, Philip H., and Chromy.

Ciba Limited, assignee: *See*—
Widmer, Willy, and Fasciati.

Cincinnati Butchers' Supply Company, The, assignee: *See*—
Pickens, Clifford J., Sr.

Cities Service Research and Development Company, assignee: *See*—
Hughes, William B.

Clark Equipment Company, assignee: *See*—
Lapsley, Robert, and Turner.
Turner, George L., and Lapsley.

Clark, James, Dayton, Ohio. Accelerometer. 2,643,869, June 30.

Claude, André, assignor to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva, Paris, France. Circuit for electric discharge apparatus. 2,644,108, June 30.

Clauser, Herbert C., and R. S. Long, assignors, by mesne assignments, to Kilgore, Inc., Westerville, Ohio. Pyrotechnic device. 2,643,610, June 30.

Clay, Jacob, heir: *See*—
Clay, Pieter H.

Clay-Jolles, Tettje C., Heir: *See*—
Clay, Pieter H.

Clay, Pieter H.: *See*—
Van Heeckeren, Willem J., and Clay.

Clay, Pieter H., deceased, late of Eindhoven, Netherlands, by J. Clay, T. C. Clay-Jolles, and P. Van Osselen-Clay, joint heirs, Amsterdam, Netherlands, J. D. Heijligers, administrator of said P. H. Clay, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot-gas motor with means for regulating the indicated power thereof. 2,643,508, June 30.

Cleveland Pneumatic Tool Company, The, assignee: *See*—
Hamlin, Vinton L.

Cloud, William S., Wilmette, Ill. Enclosing articles in tubular wrappers. 2,643,496, June 30.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Fluid-operated pump with single-acting direct-connected booster pump. 2,643,612, June 30.

Cockshutt Farm Equipment Incorporated, assignee: *See*—
Harper, Wesley A., and Minton.

Collins, Don F.: *See*—
Apel, George E., and Collins.

Colston, Arthur L., Manhattan Beach, Calif. Therapeutic table. 2,643,651, June 30.

Columbia Electric and Manufacturing Company, assignee: *See*—
Caferro, Edward M.

Columbia-Southern Chemical Corporation, assignee: *See*—
Bartlett, Paul D.

Colvin, Julius J., Hudson Falls, N. Y. Screen apparatus. 2,643,586, June 30.

Commerce, United States of America as represented by the Secretary of, assignee: *See*—
Rudy, Robert B.

Comstock, Carl D., Levittown, N. Y. Electric throttle control. 2,643,747, June 30.

Conmar Products Corporation, assignee: *See*—
Scheuerman, Valentine.

Connell, George A., Los Angeles, Calif., assignor to Borax Consolidated, Limited, London, England. Supersaturated borax solutions and methods and compositions for producing same. 2,643,947, June 30.

Connollys (Blackley) Limited, assignee: *See*—
Travis, William.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Wehmanen, Oscar Y.

Continental Car-Na-Var Corporation, assignee: *See*—
Keen, Hermon C.

Cooper, Harold S. G., Cambridge, and H. L. Schultz, Wellesley, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Radar power supply system. 2,644,088, June 30.

Corpora, Michael, assignor of 40 per cent to J. R. Viviano, Mountain View, Calif. Automobile directional signal control. 2,644,149, June 30.

Corteggiano, William L., and T. P. Kinn, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Horizontal induction heating scanner machine. 2,644,074, June 30.

Corteggiano, William L., Baltimore, M. P. Vore, Catonsville, and J. M. Edwards, Baltimore, Md., assignors to Westinghouse Electric Corpocation, East Pittsburgh, Pa. Induction heating machine with controls. 2,644,075, June 30.

Cosmetto, Aristodeme J., White Plains, N. Y. Stopcock mechanism. 2,643,850, June 30.

Countryman, James H., West Middletown, Ohio. Valve mechanism for pressure dispenser. 2,643,799, June 30.

Covington, Carl B., Fredericksburg, Va. Depth control means for scarifiers. 2,643,868, June 30.

Craig, Alfred B.: *See*—
Gluesenkamp, Earl W., and Craig.
Ham, George E., and Craig.

Craig, Burnie M.: *See*—
Schlage, Ernest L., Craig, and McAneny.

Crawford Manufacturing Company, Inc., The, assignee: *See*—
Antonevich, Michael.

Crompton & Knowles Loom Works, assignee: *See*—
Turner, Richard G.

Cronk, George W., East Orange, N. J., assignor to Worthington Corporation. Apparatus for determining the consistency of concrete mix. 2,643,542, June 30.

Crooker, David E., Ontonagon, Mich., assignor of one-half to L. L. Felker, Marshfield, Wis. Device for corrugating wire. 2,643,088, June 30.

Crooker, David E., Ontonagon, Mich., assignor of one-half to L. L. Felker, Marshfield, Wis. Machine for forming continuous wire coils. 2,643,698, June 30.

Crowther, Harold E., Watertown, and L. T. Hopkinson, Newton, assignors to The Atlantic Coast Fisheries Company, Boston, Mass. Preparing fish fillet blocks. 2,643,592, June 30.

Cunningham, William W., Atlanta, Ga. Portable rotary fountain brush. 2,643,406, June 30.

Curran, John R., Greenwood, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Control mechanism for relief valves. 2,643,676, June 30.

Curtis, Clarence R., Lombard, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Fused, polarized, blade-type electrical coupling. 2,644,050, June 30.

Curtis, Clarence R., Lombard, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Fused, polarized, male to female blade-type adapter. 2,644,057, June 30.

Curtis, Hasel S., assignor of thirty-three one-hundredths part to E. G. Johnson, Oakland, Calif. Hose mitten. 2,643,388, June 30.

Cutler-Hammer, Inc., assignee: *See*—
Charbonneau, Allan P.

Dahl, Edward T., Warwick Neck, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Reversible application of power to motor-operated valve. 2,643,667, June 30.

Daley, Edward A., Belleville, Ill., H. J. Mueller, St. Louis, Mo., and B. F. Bracy, Belleville, Ill. Liquid dispensing device. 2,643,792, June 30.

Dana Corporation, assignee: *See*—
Michell, William P.

Danberg, C. A., Inc., assignee: *See*—
Danberg, Charles A.

Danberg, Charles A., assignor to C. A. Danberg, Inc., Berlin, Conn. Electric terminal clamp. 2,644,142, June 30.

Danforth, Richard S., Berkeley, assignor to R. H. Eckhoff, Piedmont, Calif., as trustee. Anchor. 2,643,631, June 30.

Dangelmajer, Charles, Nutley, N. J., assignor to Emsig Manufacturing Company, New York, N. Y. Preparing cured shaped products. 2,643,983, June 30.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,643,874, June 30.

Dath, George E., Mokena, and E. H. Lehman, assignors to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for trucks of railway cars. 2,643,875, June 30.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,643,876, June 30.

Davis, Charles A., assignor to The Ohio Brass Company, Mansfield, Ohio. Screw actuated valve with auxiliary threaded stem support. 2,643,849, June 30.

Davis & Geck, Inc., assignee: *See*—
Riall, Charles T.

Davis, Ralph E.: *See*—
Meyer, Andre J., and Davis.

Dayton Rubber Company, The, assignee: *See*—
Rockoff, Joseph.

Dayton, Russell W., Columbus, Ohio, assignor, by mesne assignments, to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Spring loaded pop-safety valve. 2,643,671, June 30.

De Andrade Sô, Hugo, Sao Paulo, Brazil. Gas generator for stoves and the like. 2,643,943, June 30.

Decker, Howard W., Batesville, Ind. Resilient reservoir with applicator closure. 2,643,408, June 30.

De Laval Separator Company, The, assignee: *See*—
Dron, Douglas W., and Lindsey.

Dempster, Jane B.: *See*—
Auspos, Lawrence A., and Dempster.

Denny, George E.: *See*—
Lee, Joseph F., and Denny.

Derman, Harry, deceased, Great Neck, N. Y.; H., S., and S. Derman, executors of said Harry Derman. Collapsible service table ensemble. 2,643,925, June 30.

Derman, Henrietta, executrix: *See*—
Derman, Harry.

Derman, Sam, executor: *See*—
Derman, Harry.

Derman, Sidney, executor: *See*—
Derman, Harry.

De Rogatis, Gennaro, assignee: *See*—
Olalanella, Joseph.

Desch, Joseph R., assignor to The National Cash Register Company, Dayton, Ohio. Electronic impulse generator. 2,644,087, June 30.

Desch, Joseph R., assignor to The National Cash Register Company, Dayton, Ohio. Electronic counter. 2,644,110, June 30.

Desch, Joseph R., assignor to The National Cash Register Company, Dayton, Ohio. Electronic counter. 2,644,111, June 30.

Desch, Joseph R., assignor to The National Cash Register Company, Dayton, Ohio. Electronic counter. 2,644,112, June 30.

Detwiler, Tyson F., Upper Darby, Pa. Clasp for buttons. 2,643,426, June 30.

Development-Research Corporation, The, assignee: *See*—
Chester, Milton A.

Dietert, Harry W., Detroit, Mich., W. P. Adair, Mayfield Heights, and E. C. Zirzow, Cleveland Heights, Ohio, assignors to Harry W. Dietert Company, Detroit, Mich. Hardness testing indicator. 2,643,460, June 30.

Dietert, Harry W., Company, assignee: *See*—
Dietert, Harry W., Adair, and Zirzow.

Dietrich, Walter L., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Hermetically sealed lever operated switch. 2,644,061, June 30.

Di Ghilini, Alexander E., administrator: *See*—
Di Ghilini, Ulrich L.

Di Ghilini, Leo E., administrator: *See*—
DiGhilini, Ulrich L.

Di Ghilini, Ulrich L., deceased, late of Beverly Hills, Calif., by A. E. and L. E. di Ghilini, administrators, Beverly Hills, Calif. Arm for recording and reproducing apparatus. 2,643,886, June 30.

Dilts, Lee E.: *See*—
Plaws, John Jr., and Dilts.

Diserens, John D., La Russell, Mo. Sack holder. 2,643,842, June 30.

Distillers Company Limited, The, assignee: *See*—
Cash, Wilfrid E., and Gell.

Ditto, Incorporated, assignee: *See*—
Levin, Carl A., and Smith.

Doak, Edmond R., Los Angeles, Calif. Fruit gatherer. 2,643,754, June 30.

Doering, Charles and H. H., and B. J. Skoglund, Chicago, Ill.; said Skoglund assignor to said C. and H. H. Doering. Apparatus for cutting and impressing substances. 2,643,495. June 30.

Doering, Henry H.: *See*—
Doering, Charles and H. H., and Skoglund.

Dorne, Arthur, Freeport, N. Y. Recessed slot antenna. 2,644,090, June 30.

Dos Santos, Alfred, and W. K. Mossman, Honolulu, Hawaii. Bung wrench. 2,643,566, June 30.
Douglas, Alvin P., Cleveland, and L. J. Walters, Shaker Heights, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Wheel. 2,643,917, June 30.
Douglas, William S., Astoria, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Pulse generator. 2,644,094, June 30.
Douglass, Emory W., Carlsbad, N. Mex., assignor to Potash Company of America, Denver, Colo. Apparatus for crystallizing chemical salts. 2,643,941, June 30.
Douglass, Wallace C., Tuckahoe, N. Y. Cleaning and drying apparatus. 2,643,465, June 30.
Dozier, Daniel C., Norfolk, Va. Jet-propelled toy. 2,643,882, June 30.
Draper Corporation, assignee: *See*—
Flamand, Maurice R.
Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.
Drisch, Nicolas, Paris, France, assignor, by mesne assignments, to Textile and Chemical Research Company, Limited, St. Peter Port, Guernsey, Channel Islands. Production of cellulose xanthogenate compositions. 2,643,999, June 30.
Dron, Douglas W., Poughkeepsie, N. Y., and F. A. Lindsey, Jr., Fredericksburg, Va., assignors to The De Laval Separator Company, New York, N. Y. Refining of vegetable and animal oils. 2,644,004, June 30.
Dros, Albert A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot-gas reciprocating engine in which a plurality of closed thermodynamic cycles are performed simultaneously and which includes a compressor means. 2,643,507, June 30.
Drow, Donsid F., Los Angeles, Calif., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company. Thermostatic device. 2,643,825, June 30.
Drying Systems, Inc., assignee: *See*—
Burgess, Russell H.
Dubied Machinery Company, assignee: *See*—
Sandri, John G.
Dumore Company, The, assignee: *See*—
Steibel, James P.
Dunham, Le Roy S., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Air-depolarized primary cell. 2,644,025, June 30.
Dunn, John W., Alhambra, assignor to Cal-Alloy Castings, Inc., Glendale, Calif. Venetian blind. 2,643,712, June 30.
Dunn, William J., assignor to The H. B. Smith Company, Incorporated, Westfield, Mass. Push nipple. 2,643,648, June 30.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Auspos, Lawrence A., and Dempater.
Irwin, Carl F.
Paeplow, Earl W., and Kiachif.
Scheiderbauer, Robert A.
Schmitt, Robert A., Swed, and Williams.
Umberger, Jacob Q.
Dupre, Henry P., Croton on Hudson, N. Y., assignor to Burndy Engineering Co. Inc. Detachable connector having two-point support. 2,644,146, June 30.
Dustex Corporation, assignee: *See*—
Bowers, Frank, and Brookman.
Eastern Research Laboratories, Inc., assignee: *See*—
Gregory, John J.
Eastman Kodak Company, assignee: *See*—
Caldwell, John R.
Eberhardt, Daniel A., St. Louis, Mo. Adjustable clothes hanger. 2,643,802, June 30.
Eckhoff, Robert H., trustee, assignee: *See*—
Danforth, Richard S.
Ederer, Lothar A., Chicago, assignor to Keal Products, Inc., Evanston, Ill. Fish classifying means. 2,643,481, June 30.
Edison, Thomas A., Incorporated, assignee: *See*—
Dunham, Le Roy S.
Moulton, Joseph D., Schweitzer, and Briggs.
Edwards, Andrew W., and J. M. Wallace, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Line-sectionalizer integrator. 2,644,114, June 30.
Edwards, John M.: *See*—
Corteggiano, William L., Vore, and Edwards.
Edwards, Lee A., Sheffield, Ala., assignor to Tennessee Valley Authority. Production of lightweight aggregate from molten slag. 2,643,485, June 30.
Egli, Ernst, assignor to Maschinenfabrik Rüti A. G., vormals Caspar Honegger, Rüti, Switzerland. Weaving shuttle with round bobbin. 2,643,685, June 30.
Ehrenreich, Stella, and S. Stettner, New York, N. Y. Bed supported holder for slippers and the like articles. 2,643,397, June 30.
Eisenhauer, Ida J., assignee: *See*—
Stover, Ancil C.
Eisenhauer, Leigh E., assignee: *See*—
Stover, Ancil C.
Eisenhauer Manufacturing Company, The, assignee: *See*—
Stover, Ancil C.
Eisenhauer, William W., assignee: *See*—
Stover, Ancil C.
Eissmann, Oswald E., Richmond, Va., assignor to American Machine Development Corporation. Separating apparatus. 2,643,768, June 30.
"Ellpson" S. A., assignee: *See*—
Léon, Joseph.
Ellwood, William P., assignee: *See*—
Stover, Ancil C.
Elsaesser, Frank S., Cincinnati, Ohio. Sheet transfer means. 2,643,880, June 30.
Elwell, William R.: *See*—
Walaven, George M., and Elwell.
Emerol Manufacturing Co., Inc., assignee: *See*—
Pierce, William C.
Embart Manufacturing Company, assignee: *See*—
Baker, Theodore C.
Rowe, George E.
Emmett, Robert A., Jr., U. S. Navy. Blind landing system. 2,644,155, June 30.
Emaig Manufacturing Company, assignee: *See*—
Dangelmajer, Charles.
Engel, Ernst, New York, N. Y. Garment. 2,643,385, June 30.
English, Chester A., Niles, Ohio, assignor to General Electric Company. Apparatus for forming a ribbon of glass. 2,643,486, June 30.
English, William W., Westport, Conn. Slide fastener. 2,643,432, June 30.
Erickson, John R., assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,643,494, June 30.
Esselman, Walter H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator system having speed regulation and position control. 2,643,741, June 30.
Etablissements Ed. Jaeger, assignee: *See*—
Rodanet, Charles H. H.
Ethyl Corporation, assignee: *See*—
Furr, John B., and Neher.
Etskorn, Walter V., Oakland, Calif. Luminous body. 2,644,113, June 30.
Evanoff, Boreece, Oak Creek, Colo. Chain saw sharpening device. 2,643,553, June 30.
Everest, Herbert A., and H. C. Jennings, Los Angeles, Calif. Self-propelled wheel chair. 2,643,898, June 30.
Evering, Bernard L.: *See*—
Lien, Arthur P., and Evering.
Falk Corporation, The, assignee: *See*—
Thomas, Richard J.
Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Kleiner, Helmut, Bayer, and Becht.
Urbschat, Ewald.
Fasciati, Alfred: *See*—
Widmer, Willy, and Fasciati.
Fasoli, Paul A., assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y. Lump breaker construction. 2,643,587, June 30.
Federal Electric Products Company, assignee: *See*—
Ballou, Richard P.
Federal Telephone and Radio Corporation, assignee: *See*—
Bruckman, William C., Kreitchman, and Olson.
Felker, Lloyd L., assignee: *See*—
Crooker, David E.
Fellows Gear Shaper Company, The, assignee: *See*—
Miller, Edward W.
Fennelly, Joseph C., Ross, Calif., assignor, by mesne assignments, of one-half to H. S. Hensel, New York, N. Y. Injector and blade disposal device for razors. 2,643,452, June 30.
Fergason, Rector C., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Corn snapping and husking rolls. 2,643,657, June 30.
Ferguson, Harry J., Elkins Park, assignor to Harry J. Ferguson Co., Jamintown, Pa. Delivery control mechanism for conveyers. 2,643,751, June 30.
Ferguson, Harry J., Co., assignee: *See*—
Ferguson, Harry J.
Ferranti Limited, assignee: *See*—
Taylor, Maurice K., and Vaughan-Jones.
Filmsort Inc., assignee: *See*—
Baker, Leonard.
Findley, Joseph D., Jr.: *See*—
Lingal, Harry J., and Findley.
Fine, Bernard M., Lynn, Mass., assignor to Radiograph Development Corporation, Washington, D. C. Color radiography. 2,644,096, June 30.
Finn, Alfred R., Leaside, Ontario, and L. Rostoker, Toronto, Ontario, Canada. Electrical signal system for traffic lights. 2,644,147, June 30.
Fischer, Eugene H.: *See*—
Frink, Russell E., and Fischer.
Fischer, Johannes, Berlin-Siemensstadt, Germany, assignor to Manufacturers Chemical Corporation, New York, N. Y. Protective treatment of iron. 2,643,959, June 30.
Flamand, Maurice R., Central Falls, R. I., assignor to Draper Corporation, Hopedale, Mass. Yarn tension. 2,643,831, June 30.
Flanigan, Clifford H., New Albany, Ind. Power lawn mower of the rotating cutting disk type. 2,643,502, June 30.
Flaws, John, Jr., East Cleveland, and L. E. Dilts, South Euclid, Ohio, assignors to General Electric Company. Support wire inserting apparatus for incandescent lamps. 2,643,440, June 30.
Fleming, Hugh P., assignor to Fleming Specialty Company, Charlotte, N. C. Chick box. 2,643,810, June 30.
Fleming Specialty Company, assignee: *See*—
Fleming, Hugh P.
Fletcher, J. H., and Co., assignee: *See*—
Fletcher, James H. and J. R.

Fletcher, James H., Wilmette, Ill., and J. R. Fletcher, Huntington, W. Va., assignors to J. H. Fletcher and Co., Chicago, Ill. Trailer steering linkage. 2,643,892, June 30.
Fletcher, James R.: *See*—
Fletcher, James H. and J. R.
Fockler, Theodore C.: *See*—
Ludwig, Leon R., Fockler, Formhals, and Walton.
Ford, William C., Andover, Mass. Racing apparatus. 2,643,885, June 30.
Forgrove Machinery Company Limited, The, assignee: *See*—
Brook, Leonard.
Russell, Alexander.
Formhals, William H.: *See*—
Ludwig, Leon R., Fockler, Formhals, and Walton.
Foster, Edwin E., Austin, Tex. Combined windshield visor and washer. 2,643,909, June 30.
Fox Products Company, assignee: *See*—
Medlar, Lewis A.
Frager, Louis C., assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France. Device for computation of roots of polynomials. 2,643,821, June 30.
Franke & Heidecke, Fabrik Photographischer Praxisions-Apparate, assignee: *See*—
Knauf, Wilhelm.
Franklin, Edward W., Hyattsville, Md. Necktie rack. 2,643,775, June 30.
Frants Manufacturing Co., assignee: *See*—
Wolf, Cecil R.
Franxmann, William H., assignor to The Hamilton Tool Company, Hamilton, Ohio. Winding apparatus. 2,643,827, June 30.
Fray, Victor H., Auckland, New Zealand. Screw or like feeding means. 2,643,404, June 30.
Frink, Russell E., Pittsburgh, and E. H. Fischer, Latrobe, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,644,048, June 30.
Furr, John B., and C. M. Neber, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y. Chlorination of ethane. 2,644,016, June 30.
Fyler, George W., Lombard, and L. S. Kongable, La Grange, assignors to Motorola, Inc., Chicago, Ill. Television deflection system. 2,644,103, June 30.
Fyler, George W., and L. J. Mattingly, Lombard, assignors to Motorola, Inc., Chicago, Ill. Television circuit. 2,644,104, June 30.
Fyler, George W., Lombard, assignor to Motorola, Inc., Chicago, Ill. Television circuit. 2,644,105, June 30.
Gagnier, George E., assignee: *See*—
Scott, Robert E.
Gair, Robert, Company, Inc., assignee: *See*—
Ahlmeyer, Heinz, and Sherman.
Weiss, Arthur J.
Gallimore, Keith F., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Machine tool. 2,643,441, June 30.
Gardner-Denver Company, assignee: *See*—
Huffman, Mervin C.
Gardner, Jimmy D.: *See*—
Lynes, John, Allen, and Gardner.
Garon, Tobias, Detroit, Mich. Balance assembly gauge. 2,643,462, June 30.
Gaudreau, Alfred E., Springfield, Mass. Screw-operated vise construction. 2,643,563, June 30.
Gebruder Buhler, assignee: *See*—
Tanner, Fritz.
Geddes, John W., Boston, assignor to H. K. Porter, Inc., Somerville, Mass. Spreading tool for reshaping deformed automobile bodies. 2,643,562, June 30.
Gedmin, John: *See*—
Wagner, Frederick A., Pierce, and Gedmin.
Geffroy, Georges, assignor of La Cellophane, Paris, France. Carton forming machine. 2,643,592, June 30.
Geigy, J. R., A. G., assignee: *See*—
Gysin, Hans, and Hagenbach.
Gell, William H.: *See*—
Cash, Wilfrid E., and Gell.
Gem Rubber Corporation, assignee: *See*—
Gottschalk, Emil.
General Carpet Supply Co. Inc., assignee: *See*—
Jaasund, Torkel.
General Electric Company, assignee: *See*—
English, Chester A.
Flaws, John, Jr., and Dilts.
Jones, Benjamin W.
Keiffer, Raymond L., and Lemmers.
Kuehler, Arthur G., and Hollopetre.
Leonard, Vincent W.
McMahan, Kenton D.
Olsen, Arthur A., and Skeats.
Piccone, Domenic J.
Rosenkrans, Frank A.
Smith-Johannsen, Robert.
Stocking, Harold E.
Stone, Melvin L.
Von Hoorn, Fred G.
Williams, Herbert D.
Woodson, Thomas T.
Zikmund, Edward J., and Hatchett.
General Foods Corporation, assignee: *See*—
Alderman, Mattison W., Massmann, and Michael.
General Motors Corporation, assignee: *See*—
Geyer, Howard M.
General Nailing Machine Corporation, assignee: *See*—
Paxton, Gerald C.
General Railway Signal Company, assignee: *See*—
O'Brien, John C.
Swanton, Charles L.
General Tire and Rubber Company, The, assignee: *See*—
Kelly, John H., Jr.
Gerlach, Carl A., Spring Lake, Mich. Wrapping machine. 2,643,499, June 30.
Germain, Leo M., Shawinigan Falls, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Continuous process for the alkaline alcoholysis of polyvinyl esters. 2,643,994, June 30.
Geyer, Howard M., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Fluid pressure actuator and locking means therefor. 2,643,642, June 30.
Gisianella, Joseph, Newark, assignor of one-half to G. De Rogatis, Orange, N. J. Container filling machine. 2,643,807, June 30.
Giddings & Lewis Machine Tool Company, assignee: *See*—
Gallimore, Keith F.
Gieseke, Elmer W., Fountain City, Tenn., assignor to American Cyanamid Company, New York, N. Y. Flotation of mica with sulfonates. 2,643,770, June 30.
Gillette Company, The, assignee: *See*—
Bailey, Vincent R.
Ginsberg, Walter F., Anaconda, Mont. Traffic warning signal. 2,644,152, June 30.
Gisholt Machine Company, assignee: *See*—
Sperisen, Ernest.
Glass, Paul, assignor to Askania Regulator Company, Chicago, Ill. Voltage translating means. 2,644,085, June 30.
Glenn, Harry D., Naugatuck, Conn., and L. Meueer, Baton Rouge, La., assignors to United States Rubber Company, New York, N. Y. Prevention of decomposition of chloroalkyl aryloxyalkyl sulfites. 2,644,008, June 30.
Glenn, John C., administrator: *See*—
Lebrun, Paul.
Gluecnkamp, Earl W., and A. B. Craig, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation. Fiber-forming polymers. 2,643,992, June 30.
Glynn, Theodore W., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn. Electrical connector for resistance elements on glass plates. 2,644,006, June 30.
Godman, H. C., Company, The, assignee: *See*—
Weber, Donald P.
Gold, Harold, East Cleveland, and D. M. Straight, Cleveland, Ohio. Fluid control system. 2,643,663, June 30.
Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing equipment for guiding printing plates. 2,643,605, June 30.
Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing plate securing means. 2,643,608, June 30.
Goodman Manufacturing Company, assignee: *See*—
Carlson, Melvin G.
Goodrich, B. F., Company, The, assignee: *See*—
Harrison, Stuart A., and Brown.
Goodwin, Lewis D., North Tonawanda, N. Y. Device for teaching arithmetic. 2,643,467, June 30.
Gothar, Robert D., Sherman Oaks, Calif. Package wrapping device. 2,643,424, June 30.
Gottschalk, Emil, assignor to Gem Rubber Corporation, New York, N. Y. Rubber footwear having a flared upper. 2,643,468, June 30.
Gottschalk, Prosper L., Milwaukee, Wis. Window construction. 2,643,422, June 30.
Gottscho, Adolph, Inc., assignee: *See*—
Gottscho, Ira S.
Gottscho, Ira S., Milburn, assignor to Adolph Gottscho, Inc., Hillside, N. J. Holder for rubber type. 2,643,609, June 30.
Graham, Bernard A., Chicago, and I. Jepson, Oak Park, assignors to Sunbeam Corporation, Chicago, Ill. Food mixer. 2,643,864, June 30.
Graham, Harold J., Highland Park, assignor to Graham Manufacturing Corporation, Detroit, Mich. Welding device. 2,644,068, June 30.
Graham Manufacturing Corporation, assignee: *See*—
Graham, Harold J.
Grandstaff, Otho D., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Voice current repeater. 2,644,044, June 30.
Grantham, Frederick W., Los Angeles, Calif. Laundry apparatus. 2,643,463, June 30.
Greenlee, Harry R., Indianapolis, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio. Spring type clutch. 2,643,749, June 30.
Gregory, John J., assignor to Eastern Research Laboratories, Inc., Baltimore, Md. Label affixing machine. 2,643,498, June 30.
Grenier, Joseph P., and P. E. E. Lescieux, assignors to Ste. Helita, Paris, France. Radioactive lightning protector with accelerating elements. 2,644,026, June 30.

Grenot, Leo D., Oakland, Calif. Display means. 2,643,474, June 30.

Grinnell, Willis H., Boston, Mass. Tool for adjusting orthodontia appliances. 2,643,908, June 30.

Griscom-Russell Company, The, assignee: *See*—
Impagliazzo, Abraham M.

Grove Regulator Company, assignee: *See*—
Bryant, Austin U.

Grove, Walter T., Erie, Pa. Fixture for spherical members. 2,643,537, June 30.

Guiberson Corporation, The, assignee: *See*—
Losey, Thomas B.

Gundlach, Norman J., executor: *See*—
Cartier, Lionel R.

Gustafson, August W., Corpus Christi, Tex. Apparatus for distributing fertilizer or the like. 2,643,796, June 30.

Gyorfy, Howard, Milwaukee, Wis. Window construction. 2,643,601, June 30.

Gysin, Hans, and R. E. Hagenbach, assignors to J. R. Geigy A. G., Basel, Switzerland. Quaternary ammonium compounds and their manufacture. 2,644,003, June 30.

Hadady, Robert E., assignor to The American Instrument Company, Inc., Silver Spring, Md. Automatic drying control system. 2,643,464, June 30.

Haefliger, William W., Los Angeles, Calif. Fabric retaining device. 2,643,399, June 30.

Hagenbach, Rudolf E.: *See*—
Gysin, Hans, and Hagenbach.

Halvorsen, Roy A., Cleveland Heights, Ohio, assignor to Packer Halvorsen Company, Niles, Mich. Making aluminum oxide. 2,643,935, June 30.

Ham, George E., and A. B. Craig, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation. Fiber-forming polymers rendered dye-receptive by reaction with tris (dimethylamido) phosphite. 2,643,986, June 30.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Preparing polymers. 2,643,990, June 30.

Hamilton Tool Company, The, assignee: *See*—
Franzmann, William H.

Hamister, Victor C., Lakewood, Ohio, assignor to Union Carbide and Carbon Corporation. Graphitization of carbon articles. 2,644,020, June 30.

Hamlin, Vinton L., Sherman Oaks, Calif., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Automobile transmission handling jack. 2,643,779, June 30.

Hammarbach, Robert W., Fostoria, Ohio. Universal coupling. 2,643,528, June 30.

Hansen, Carl, Calamus, Iowa. Bale loader. 2,643,604, June 30.

Harden, Carl, Pasadena, assignor to Brown Citrus Machinery Corp., Whittier, Calif. Reamer. 2,643,693, June 30.

Hardman, Faythe K., assignee: *See*—
McLeod, Lena E.

Hardman, James A., assignor to Utah Scientific Research Foundation, Logan, Utah. Soil sampling machine. 2,643,858, June 30.

Hargis, William H., Jr., Salinas, Calif. Ski binding. 2,643,888, June 30.

Harper, James I., Media, assignor to Sun Oil Company, Philadelphia, Pa. Continuous adsorption process. 2,644,018, June 30.

Harper, Wesley A., and E. S. Minton, Bellevue, Ohio, assignors, by mesne assignments, to Cockshutt Farm Equipment Incorporated. Cage for side delivery rakes. 2,643,505, June 30.

Harris, John L., Whitefish Bay, Wis. Cam controlled device. 2,644,119, June 30.

Harrison, Stuart A., Stow, Ohio, and W. E. Brown, Cambridge, Mass., assignors to The B. F. Goodrich Company, New York, N. Y. Preparation of mixtures of rubbery butadiene styrene copolymer with hard resinous saturated copolymer of styrene and another unsaturated compound. 2,643,987, June 30.

Harsch, Chester A., Portland, Oreg. Electric control system for expansible motor operated boom. 2,643,515, June 30.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Clay, Pieter H.
Dros, Albert A.
Van Heeckeren, Willem J., and Clay.

Hatch, Robert L., assignor to Rodney Hunt Machine Company, Orange, Mass. Sluice gate seal. 2,643,521, June 30.

Hatchett, Samuel E.: *See*—
Zikmund, Edward J., and Hatchett.

Havens, Glenn G., assignor to Narmco, Inc., San Diego, Calif. Method and apparatus for manufacturing cylindrical bodies. 2,643,700, June 30.

Haverland, Frank J., Chicago, Ill. Electrically ignited gas pilot. 2,643,709, June 30.

Haynes, Nathan M., New York, N. Y. Slipping clutch. 2,643,531, June 30.

Hazeltine Research, Inc., assignee: *See*—
Richman, Donald.

Healy, Maurice F., Watertown, Mass., assignor to United States of America as represented by the Secretary of War. Loading mechanism for mortars. 2,643,582, June 30.

Heath, William C., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrically welded hollow steel propeller blade and making same. 2,643,725, June 30.

Heldrich, John, Los Angeles, Calif. Pill injector. 2,643,653, June 30.

Heijligers, Joris D., administrator: *See*—
Clay, Pieter H.
Van Heeckeren, Willem J., and Clay.

Heise, George W.: *See*—
Schumacher, Erwin A., and Heise.

Helm, Vernon L., Yakima, Wash. Rocker arm refacer. 2,643,489, June 30.

Hempel, Herbert W., and W. C. Marsh, assignors to Marsh Stencil Machine Company, Belleville, Ill. Fountain marker. 2,643,409, June 30.

Hemphill Company, assignee: *See*—
St. Pierre, Eugene.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway journal lubricator. 2,643,919, June 30.

Hennessy Lubricator Company, Inc., assignee: *See*—
Hennessy, James J.

Henrich, William H., East Norwalk, assignor to Sorensen & Company, Inc., Stamford, Conn. Voltage regulator. 2,644,128, June 30.

Hensel, H. Struve, assignee: *See*—
Fennelly, Joseph C.

Herbst, Harry T., Belleville, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Inert gas blanketed welding rod feed. 2,644,070, June 30.

Herceg, Matt D., Stockton, Calif. Shoe construction with diagonal lacing. 2,643,469, June 30.

Hercules Powder Company, assignee: *See*—
Saunders, Robert H.

Hercterick, Vincent R., Waltham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Electrical assembly. 2,644,045, June 30.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Viscosity measuring device. 2,643,543, June 30.

Heyden Chemical Corporation, assignee: *See*—
Barth, Robert H.

Hirst, Archie J., Leicester, England. Independent suspension for motor vehicle road wheels. 2,643,877, June 30.

Hittell, John L., Livonia Township, Wayne County, Mich. Internal-combustion engine. 2,644,021, June 30.

Hockery, John C., trustee, assignee: *See*—
McLean, Robert E.

Hoe, R., & Co., Inc., assignee: *See*—
Albrecht, Alexander J.

Hoegberg, Erick I., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Thiophosphatosuccinimides. 2,644,002, June 30.

Hoffmann, Joseph, Waterbury, Conn. Wedge-actuated clamp for resilient tubing and the like. 2,643,848, June 30.

Hogeberg, Bart A., Seattle, Wash. Air-controlled solenoid golf tee. 2,643,883, June 30.

Hogg, John A.: *See*—
Korman, Jerome, Reid, Nathan and Hogg.

Hollopetre, John B.: *See*—
Kuebler, Arthur G., and Hollopetre.

Holzwarth, Hans T., Westfield, N. J., assignor to the United States of America as represented by the Secretary of the Air Force. High-speed turbine. 2,643,852, June 30.

Homemakers' Products Corporation, assignee: *See*—
Mahon, Thomas J.

Hopkinson, Lawrence T.: *See*—
Crowther, Harold E., and Hopkinson.

Houdry, Eugene J., Ardmore, Pa. Preparation of a multilayer catalyst. 2,643,980, June 30.

Howard, Stanley G., Sutton Coldfield, England. Carrier or driving means for workpieces in lathes and the like. 2,643,572, June 30.

Howe, Eugene E., Bound Brook, and M. Tishler, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Salts of d-amidone with an optically active acid and resolving di-amidone. 2,644,010, June 30.

Hoy, Robert J., North Hollywood, Calif. Step device for playground equipment. 2,643,809, June 30.

Hoyka, Marion J., West Des Moines, Iowa. Sound deadener for signaling devices. 2,643,634, June 30.

Hoyt, Simes T., Honolulu, Hawaii, assignor to Castle & Cooke, Limited. Centrifuging massecuite. 2,643,960, June 30.

Hruby, John O., Jr., assignor to Hydraulic Research and Manufacturing Company, Burbank, Calif. Relay. 2,644,118, June 30.

Huck, Frederick W., Evansville, Ind. Boat anchor. 2,643,629, June 30.

Hudson, Mervin C., Denver, Colo., assignor to Gardner-Denver Company, Quincy, Ill. Rock drill. 2,643,641, June 30.

Hughes, William B., Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y. Inhibiting corrosion of metals. 2,643,977, June 30.

Hughes, William B., Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y. Inhibiting corrosion of metals. 2,643,978, June 30.

Hummer, Charles W., Woodhaven, N. Y. Automobile door safety lock. 2,643,905, June 30.

Hunt, Rodney, Machine Company, assignee: *See*—
Hatch, Robert L.

Hunter, Lloyd P., Oak Ridge, Tenn., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multifrequency T-R box. 2,644,139, June 30.

Hydraulic Research and Manufacturing Company, assignee: *See*—
Hruby, John O., Jr.

Hydrocarbon Research, Inc., assignee: *See*—
Buschow, Herman F.
Keith, Percival C.

Impagliazzo, Abraham M., Queens Village, assignor to The Griscom-Russell Company, New York, N. Y. Apparatus for using waste heat from heat engines for evaporation of water. 2,643,974, June 30.

Imperial Chemical Industries Limited, assignee: *See*—
Landquist, Justus K.

Imperial Tobacco Company of Canada, Limited, assignee: *See*—
Rowell, Lorne A.

Imperial Trust for the Encouragement of Scientific and Industrial Research, The, assignee: *See*—
Thwaites, Bryan.

Independent Engineering Company, Inc., assignee: *See*—
Cartier, Lionel R.

Industrial Devices, Inc., assignee: *See*—
Schnoll, Nathan.

Industrial Research, Inc., assignee: *See*—
Paxton, Dewey M.

Integral Limited, assignee: *See*—
Westbury, Roy, Bray, and Packenham.

Interior, United States of America as represented by the Secretary of the Department of the, assignee: *See*—
Stevens, Rollin E.

International Business Machines Corporation, assignee: *See*—
Stalbecker, Sture E., and Tibbling.

International Paper Company, assignee: *See*—
Williamson, Oscar H.

International Standard Electric Corporation, assignee: *See*—
Rensch, Heins R.

Irwin, Carl F., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of polyamine hydrochlorides and polyisocyanates. 2,644,007, June 30.

Ismah Corporation of New York, assignee: *See*—
Shamah, Israel.

Izon, Frank H. T.: *See*—
Smith, Cyril R. B., and Izon.

Jaasund, Torkel, Brooklyn, assignor to General Carpet Supply Co., Inc., New York, N. Y. Carpet rug binder. 2,643,963, June 30.

Jack, William R., and L. D. Cahill, Chagrin Falls, Ohio, said Cahill assignor to said Jack. Variable resistance device. 2,644,064, June 30.

Jackson, Alexis E.: *See*—
Makaroff, Vadim S., and Jackson.

Jackson, Corwill, Ludington, Mich. Machine for compacting granular mass material. 2,643,595, June 30.

Jackson, Edward H. T., Redhill, England. Cathode-ray tube voltmeter. 2,644,137, June 30.

Jacobsen, Andrew B., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Frequency stabilizing circuit. 2,644,093, June 30.

Jacoby, George W., Jr., Wooster, Ohio. Microtome knife. 2,643,579, June 30.

Jacques, Raynaldo: *See*—
Longstreet, James R., and Jacques.

Janney, Raymond B., II., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del. Water planing undercarriage with flotation means for aircraft. 2,643,835, June 30.

Jenne, Kenneth C., assignor to Malleable Iron Fittings Company, Branford, Conn. Clamp for guy wires and the like. 2,643,425, June 30.

Jenne, Kenneth C., assignor to Malleable Iron Fittings Company, Branford, Conn. Guy hook for attachment to transmission line poles or the like. 2,643,428, June 30.

Jennings, Harry C.: *See*—
Everest, Herbert A., and Jennings.

Jepson, Ivar: *See*—
Graham, Bernard A., and Jepson.

Johns-Manville Corporation, assignee: *See*—
Miles, William S.

Johnson, A., & Co., assignee: *See*—
Lindlie, John H. O.

Johnson, Chester F., Los Angeles, Calif. Masonry anchor bolt. 2,643,573, June 30.

Johnson, David L., Syracuse, N. Y. Isolation and purification of streptomycin phosphate. 2,643,997, June 30.

Johnson, Eric C.: *See*—
Morris, Thomas C., and Johnson.

Johnson, Ervin G., assignee: *See*—
Curtis, Hazel S.

Johnson, John, Brockton, Mont. Toggle actuated plier wrench. 2,643,567, June 30.

Johnson, Ray W., San Jose, Calif, assignor to Le Tourneau, Inc., Longview, Tex. Adjustable leverage claw hammer. 2,643,854, June 30.

Johnston, Irven D., Du Bois, Pa. Press for securing wax comb foundations in honey frames. 2,643,400, June 30.

Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Electric fuse. 2,644,059, June 30.

Jones, Clarence R., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Lading strap anchor. 2,643,618, June 30.

Jones, Dan H., Lakeview, Oreg. Trap. 2,643,480, June 30.

Jones, Theodore A., Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Receiver for two-tone carrier systems. 2,644,036, June 30.

Jubb, Albert, Buttershaw, Bradford, assignor to Rolls-Royce Limited, Derby, England. Fuel system for gas-turbine engines with means to maintain the fuel supply within desired limits during transient operating conditions. 2,643,514, June 30.

Kaeser, George L., Hartford, Conn. Wing plow structure. 2,643,470, June 30.

Kaiser, Henry, Kiel, Wis. Flexible elbow. 2,643,680, June 30.

Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Reach assembly for cycle saddles. 2,643,701, June 30.

Karr, Kenneth K., Tulsa, Okla. Toilet tank flush valve. 2,643,393, June 30.

Kcal Products, Inc., assignee: *See*—
Ederer, Lothar A.

Keammerer, Roy P., Gary, Ind., assignor to United States Steel Corporation. Corrosion resistant valve. 2,643,679, June 30.

Keefe, Lincoln M., Woodside, N. Y. Dispensing device. 2,643,929, June 30.

Keegan, Frank X., assignor to The Pyle-National Company, Chicago, Ill. Retaining mechanism for sealed beam lamp type locomotive headlight assemblies. 2,644,076, June 30.

Keen, Hermon C., assignor to Continental Car-Na-Var Corporation, Brazil, Ind. Vacuum cleaning machine. 2,643,732, June 30.

Keiffer, Raymond L., Chagrin Falls, and E. Lemmers, Cleveland Height, Ohio, assignors to General Electric Company. Preheat neutralizing circuit for fluorescent lamps. 2,644,107, June 30.

Keith, Percival C., Peapack, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Precooling air in oxygen production. 2,643,527, June 30.

Kellems, Edgar E., Pasadena, Calif. Drafting implement. 2,643,458, June 30.

Kellogg, M. W., Company, The, assignee: *See*—
Douglas, William S.

Kelly, John H., Jr., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Making sponge rubber with the aid of amines. 2,643,981, June 30.

Kenyon, Dorothy M., Philadelphia, Pa. Button fastening device. 2,643,427, June 30.

Kern, Harry C., assignee: *See*—
Wittstock, Alfred G.

Kerr, Robert L., assignor to Adrema Limited, London, England. Bed and platen addressing machine. 2,643,606, June 30.

Keuffel & Esser Company, assignee: *See*—
Baker, Allister L.

Kiachif, Messoud: *See*—
Paeplow, Earl W., and Kiachif.

Kiekhaefer, Elmer C., Cedarburg, Wis. Internal-combustion engine. 2,643,510, June 30.

Kilburn, Tom: *See*—
Williams, Frederic C., Robinson, and Kilburn.

Kilgore, Inc., assignee: *See*—
Clauser, Herbert C., and Long.

Kilgore, Joseph D., Athens, Ohio. Continuous shooting cap pistol. 2,643,476, June 30.

Kinickli, Viktor A., Sao Paulo, Brazil. Circle diagram recorder. 2,643,933, June 30.

Kinn, Theodore P.: *See*—
Corteggiano, William L., and Kinn.

Kinnicutt, Roger, Jr.: *See*—
Young, Richard W., and Kinnicutt.

Klein, Charles H., Cleveland, Ohio, and T. M. Portec, Brookline, Mass., assignors to The National Telephone Supply Company, Cleveland, Ohio. Portable hand tool for alternative direct and step-by-step operation. 2,643,564, June 30.

Kleinen, Theodor, Duisburg, Germany. Horizontal flue boiler with combustion preheater. 2,643,645, June 30.

Kleiner, Helmut, Opladen, O. Bayer, Leverkusen-Bayerwerk, and B. Becht, Leverkusen-Wiesdorf, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Textile printing paste and coating therewith. 2,643,958, June 30.

Klopfenstein, Jess D., Oak Park, assignor to The Meyercord Company, Chicago, Ill. Machine for applying decal films to base sheets. 2,643,475, June 30.

Kilyce, Battle H., Stamford, Conn., assignor to Time, Incorporated, New York, N. Y. Scanning device. 2,644,031, June 30.

Knauf, Wilhelm, assignor to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate, Braunschweig, Germany. Film feeding and position indicating mechanism for photographic cameras. 2,643,826, June 30.

Koch, Carl W., Phillips, Tex., assignor to Phillips Petroleum Company. Rotary drilling mechanism. 2,643,860, June 30.

Koch, Jerry C., Barrington, assignor to Chicago Coin Machine Co., Chicago, Ill. Miniature bowling alley. 2,643,884, June 30.

Koehl, Herman, Danielson, and H. A. Prym, Woodstock, assignors to C. E. M. Company, Killingly, Conn. Covered buckle and parts thereof. 2,643,430, June 30.

Koke, Anna C., St. Louis, Mo. Hair ringlet holder. 2,643,658, June 30.

Kollmeyer, Herman R., Arlington, Va. Watch oiler. 2,643,801, June 30.

Kollsman, Paul, New York, N. Y. Apparatus for dispensing carbonated beverages. 2,643,791, June 30.

Kollsman, Paul, New York, N. Y. Apparatus for dispensing carbonated beverages. 2,643,866, June 30.

Komeo, Oscar, Linden, Mich. Sanitary milk carton. 2,643,815, June 30.

Konet, Henry, Hohokus, assignor to Bendix Aviation Corporation, Teterboro, N. J. Gyroscope having erecting means to compensate for acceleration errors. 2,643,547, June 30.

Kongable, Lowell S.: *See*—
Fyler, George W., and Kongable.

Korman, Jerome, W. B. Reid, Jr., A. H. Nathan, and J. A. Hogg, assignors to The Upjohn Company, Kalamazoo, Mich. 4-substituted-vinylcyclohexenes and the production thereof. 2,644,012, June 30.

Kovatch, Robert J., Baltimore, Md., assignor to Bethlehem Steel Company. Sheet transfer and guide. 2,643,757, June 30.

Kreitchman, Morton A.: *See*—
Bruckman, William C., Kreitchman, and Olson.

Krueger, Theodore H., Stratford, Conn., assignor to Seal Incorporated. Dry mounting press with timing signals. 2,644,151, June 30.

Krueger, Theodore H., Stratford, Conn., assignor to Seal Incorporated. Dry mounting press. 2,643,099, June 30.

Kuebler, Arthur G., and J. B. Hollopetre, South Euclid, Ohio, assignors to General Electric Company. Coating method and apparatus for luminescent tubes. 2,643,956, June 30.

Kuhn, Paul R., St. Louis County, assignor to Ritepoint Co., St. Louis, Mo. Refill unit for ball point pens. 2,643,639, June 30.

Kuhns, William L., Clayton, N. Mex. Dehorning device. 2,643,454, June 30.

La Cellophane, assignee: *See*—
Geffroy, Georges.

Lach, John, Chicago, Ill., assignor to Uarco Incorporated. Folding machine for continuous strips of stationary. 2,643,878, June 30.

Lampe, William N.: *See*—
McIlroy, Joe H., and Lampe.

Landis Machine Company, assignee: *See*—
Billow, Arthur H.

Landquist, Justus K., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. New quinoxaline derivatives. 2,644,000, June 30.

Lange, Ferdinand, Minden in Westphalia, assignor to Werner Bahlsen, Hannover, Germany. Box construction. 2,643,812, June 30.

Lanman, Guy R., El Reno, Okla. Hanging object anchor. 2,643,840, June 30.

Lapointe, Elmer J.: *See*—
Lapointe, Francis J. and E. J.

Lapointe, Elmer J. and F. J., Ann Arbor, Mich. Broaching machine. 2,643,585, June 30.

Lapointe, Francis J.: *See*—
Lapointe, Elmer J. and F. J.

Lapointe, Francis J. and E. J., Ann Arbor, Mich. Broach. 2,643,443, June 30.

Lapsley, Robert: *See*—
Turner, George L., and Lapsley.

Lapsley, Robert, and G. L. Turner, assignors to Clark Equipment Company, Buchanan, Mich. Multiple valve unit. 2,643,074, June 30.

Lathrop, Harry D., assignor to The Lathrop-Paulson Company, Chicago, Ill. Safety drive clutch. 2,643,530, June 30.

Lathrop-Paulson Company, The, assignee: *See*—
Lathrop, Harry D.

Laubach, William, Houston, Tex. Governor. 2,643,672, June 30.

Lauterbach, Norman E., Newark, assignor to Ritter Company, Inc., Rochester, N. Y. Medical practice chair with foot supporting stirrups. 2,643,704, June 30.

Lear, Earl B., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Blower valve control arrangement. 2,643,640, June 30.

Le Blond, R. K., Machine Tool Co., The, assignee: *See*—
Siekmann, Harold J., and Meyer.

Lebrun, Paul, deceased, Long Island City, N. Y.; J. C. Glenn, administrator of the estate of Paul Lebrun. Making glass beads. 2,643,488, June 30.

Lectra Products Co., assignee: *See*—
Nathan, Edward.

Lee, Joseph F., Lynwood, and G. E. Denny, assignors to F. V. Long, Compton, Calif., doing business as The Vapor Recovery Systems Company. Venting apparatus for tanks or the like. 2,643,666, June 30.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Internal-combustion engine fuel and speed control. 2,643,513, June 30.

Lee, Yuk W., and J. B. Wiesner, Belmont, and T. P. Cheatham, Jr., Marlboro, Mass., assignors, by mesne assignments, to Research Corporation, New York, N. Y. Apparatus for computing correlation functions. 2,643,819, June 30.

Lehman, Edward H.: *See*—
Dath, George E., and Lehman.

Leitz, Ernest, G. m. b. H., Optische Werke, assignee: *See*—
Wehrenfennig, Hugo.

Lemmers, Eugene: *See*—
Keiffer, Raymond L., and Lemmers.

Lenard, Frederick P., and O. W. Methven, assignors to The New Merton Board Mills Limited, London, England. Producing multiply metal-foil-cardboard material and producing articles formed of such material. 2,643,593, June 30.

Léon, Joseph, Cholsy-le-Roi, assignor, by mesne assignments, to "Elipson" S. A., Paris, France. Sound transmitting device with an ellipsoidal reflector. 2,643,727, June 30.

Lentz, Leonard L.: *See*—
Nystrom, Karl F., and Lentz.

Leonard, Vincent W., Saugus, Mass., assignor to General Electric Company. Electric switch. 2,644,047, June 30.

Lescieux, Pierre E. E.: *See*—
Grenier, Joseph P., and Lescieux.

Le Tourneau, Inc., assignee: *See*—
Johnson, Ray W.

Levin, Carl A., Park Ridge, and O. L. Smith, Oak Park, assignors to Ditto, Incorporated, Chicago, Ill. Registration means for duplicating machines. 2,643,607, June 30.

Levine, Jack W.: *See*—
Overland, Leo D., and Levine.

Levy, Ernest, Jr., Bronx, N. Y., assignor to Sorensen & Company, Inc., Stamford, Conn. Inverter. 2,644,126, June 30.

Lewis, Elmer, Eustis, Fla. Poultry feeder. 2,643,637, June 30.

Lewis, Louis W., Dallas, Tex. Pump. 2,643,816, June 30.

Lien, Arthur P.: *See*—
McCaulay, David A., and Lien.

Lien, Arthur P., Hammond, Ind., and B. L. Evering, assignors to Standard Oil Company, Chicago, Ill. Combination HF treating catalytic cracking process. 2,643,971, June 30.

Lilly, Eli, and Company, assignee: *See*—
Bray, Malcolm D.

Lindblom, Frank W.: *See*—
Miner, Frederic I., and Lindblom.

Lindemann, Waldemar, and F. van Endert, Duesseldorf, Germany. Installation for use with scrap briquetting presses. 2,643,558, June 30.

Lindert, Albert W., Homewood, assignor to Standard Oil Company, Chicago, Ill. Demulsifiable lubricant compositions. 2,643,979, June 30.

Lindgren, Ralph M., New Orleans, La. Preserving wood. 2,643,957, June 30.

Lindhe, John H. O., Nynashamn, assignor to A. Johnson & Co., Stockholm, Sweden. Treatment of electric apparatus intended to contain oil. 2,643,962, June 30.

Lindsey, Frank A., Jr.: *See*—
Dron, Douglas W., and Lindsey.

Lingal, Harry J., and J. D. Findley, Jr., Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-speed circuit breaker operating mechanism. 2,644,053, June 30.

Lloyd Products Company, The, assignee: *See*—
Richardson, Arthur A.

Logan, Hugh H., La Canada, Calif. Soap dispenser. 2,643,669, June 30.

Logsdon, Robert F., assignor to American Air Filter Company, Inc., Louisville, Ky. Corrugated screen gas impingement filter. 2,643,735, June 30.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Pay station control trunking for mixed service telephone systems. 2,644,040, June 30.

London, Stanley J.: *See*—
Soares, Joaquim P., and London.

Long, Frank V.: *See*—
Lee, Joseph F., Denny, and Long.

Long, Robert S.: *See*—
Clauser, Herbert C., and Long.

Longstreet, James R., Maple Heights, Ohio, and R. Jacques, Uxbridge, Mass., assignors to The Warner & Swasey Company, Cleveland, Ohio. Elimination of faller bar creep in pin drafters. 2,643,419, June 30.

Loosli, Hermann, Zurich, Switzerland. Heat-controlled liquid switch. 2,644,038, June 30.

Losey, Thomas B., assignor to The Guiberson Corporation, Dallas, Tex. Fabricated kelly. 2,643,861, June 30.

Lovisek, Louis J., assignor to Parker-Kalon Corporation, New York, N. Y. Apparatus for making screw fasteners. 2,643,401, June 30.

Ludwig, Leon R., Pittsburgh, Pa., T. C. Fockler, and W. H. Formhals, Buffalo, N. Y., and H. T. Walton, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Explosion-resistant motor. 2,644,099, June 30.

Lundstrom, Ida, St. Louis, Mo. Curtain rod bracket. 2,643,846, June 30.

Lundy, Alvin S.: *See*—
Schneible, Claude B., and Lundy.

Luscalzo, Benjamin, assignee: *See*—
Wertepny, Alexander and R. J.

Lynes, Inc., assignee: *See*—
Lynes, John.
Lynes, John, Allen, and Gardner.

Lynes, John, G. H. Allen, and J. D. Gardner, assignors to Lynes, Inc., Houston, Tex. Hydraulically inflatable packer. 2,643,722, June 30.

Lynes, John, Houston, Tex., assignor to Lynes, Inc. Oil well tool. 2,643,723, June 30.

Lyon, George A., Detroit, Mich. Top shield for automobiles. 2,643,910, June 30.

Lyon, George A., Detroit, Mich. Top shield for vehicles. 2,643,911, June 30.

Lyon, George A., Detroit, Mich. Top shield for vehicles. 2,643,912, June 30.

Lyon, George A., Detroit, Mich. Automobile roof construction. 2,643,913, June 30.

Lytle, Chester W., Chicago, Ill., assignor, by mesne assignments, to Lytle Engineering & Mfg. Co. Tuner for radio receivers and the like. 2,644,141, June 30.

Lytle Engineering & Mfg. Co., assignee: *See*—
Lytle, Chester W.

MacBlane, James, and R. N. Paterson, Horseheads, assignors, by mesne assignments, to The Nylok Corporation, New York, N. Y. Machine for making friction grip nuts. 2,643,403, June 30.

MacDonald, Duncan N., Evanston, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Multiline telephone substation instrument and circuits. 2,644,042, June 30.

MacLean, Allen D., Pittsburgh, Pa., assignor, by mesne assignments, to The Ohio Injector Company, Wadsworth, Ohio. Apparatus for operating rotary valves. 2,643,677, June 30.

MacLelland, Willis G.: *See*—
Snyder, Clermont J., and MacLelland.

Magnus, Oscar F., Chicago, Ill., assignor to American Brake Shoe Company, New York, N. Y. Pump actuating system for rail and flange lubricators. 2,643,738, June 30.

Maher, Richard A., D. S. Oliver, and F. L. Wedig, Jr., assignors to Avco Manufacturing Corporation, Cincinnati, Ohio. Color television rotating filter drive circuit. 2,644,032, June 30.

Mahon, Thomas J., Long Island City, assignor to Homemakers' Products Corporation, New York, N. Y. Diaper. 2,643,969, June 30.

Maier, Herbert N.: *See*—
Pickering, Theodore H., and Maier.

Makaroff, Vadim S., New York, N. Y., and A. E. Jackson, Norwalk, Conn. Compressor. 2,643,817, June 30.

Mailr, Joseph J., Jr., Denver, Colo. System for mixing vaporized hydrocarbons with air. 2,643,944, June 30.

Malleable Iron Fittings Company, assignee: *See*—
Jenne, Kenneth C.

Maloof, Richard N., Las Vegas, N. Mex. Automatic safety switch. 2,644,051, June 30.

Manning, Maxwell & Moore, Incorporated, assignee: *See*—
Dayton, Russell W.

Manoogian, Harold M., assignor to The Stanley Works, New Britain, Conn. Connecting means for tubular sections. 2,643,901, June 30.

Manufacturers Chemical Corporation, assignee: *See*—
Fischer, Johannes.

Maresca, Peter T., Asbury Park, and I. Stokes, Red Bank, N. J., assignors to the United States of America as represented by the Secretary of the Army. Double pulse gas tube modulator. 2,644,157, June 30.

Marquette Metal Products Company, The, assignee: *See*—
Greenlee, Harry R.
Moulton, Lloyd J.

Marsh Stencil Machine Company, assignee: *See*—
Hempel, Herbert W., and Marsh.

Marsh, Walton C.: *See*—
Hempel, Herbert W., and Marsh.

Marshall, Frank C.: *See*—
Christie, Soren L., and Marshall.

Martin, Michael J., Armadale, Victoria, Australia. Filter. 2,643,772, June 30.

Martin, Wesley G., assignor to A. O. Smith Corporation, Milwaukee, Wis. Pressure protected silolike container for preserving farm crops. 2,643,602, June 30.

Martin, Wilbert A., Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Nonbounce switch. 2,644,052, June 30.

Maschinenfabrik Augsburg-Nürnberg A. G., assignee: *See*—
Scharf, Herbert.

Maschinenfabrik Rüti A. G. vormals Caspar Honegger, assignee: *See*—
Egli, Ernst.

Masonite Corporation, assignee: *See*—
Schoen, William.

Massmann, William F., Jr.: *See*—
Alderman, Mattison W., Massmann, and Michael.

Matovich, Steve, Campbell, Calif. Screw starter. 2,643,379, June 30.

Matthysse, Irving F., and C. V. Pellier, New York, N. Y., assignors to Burndy Engineering Co., Inc. Manufacturing electrical terminal connectors. 2,643,446, June 30.

Mattingly, Lawrence J.: *See*—
Fyler, George W., and Mattingly.

Maurer, Jakob, Kilchberg, and R. Maurer, Zurich, Switzerland, assignors to Ritter Company, Inc., Rochester, N. Y. Dental hand instrument. 2,643,456, June 30.

Maurer, Robert: *See*—
Maurer, Jakob and R.

May-Sloan, Inc., assignee: *See*—
Mayer, Siegfried F.

Mayer, Siegfried F., assignor to May-Sloan, Inc., Lock Haven, Pa. Venetian blind. 2,643,713, June 30.

Mazar, Jasper, Binghamton, N. Y. Lathe attachment. 2,643,717, June 30.

McAlister, Henry, Worcester, Mass. Stepladder. 2,643,808, June 30.

McAneny, Michael J.: *See*—
Schlage, Ernest L., Craig, and McAneny.

McBride, Emerson L., Bakersfield, Calif. Knuckle joint. 2,643,900, June 30.

McCaulay, David A., Chicago, Ill., and A. P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Disproportionation of diethylbenzene. 2,644,017, June 30.

McClellan, Joseph E., assignor to himself and La V. S. McClellan, Oakland, Calif. Cutting die mounting and ejector. 2,643,715, June 30.

McClellan, La Verne S., assignee: *See*—
McClellan, Joseph E.

McCleskey, James W., Sr., assignee: *See*—
Theobald, Louis R., Sr.

McColpin-Christie Corp., assignee: *See*—
Christie, Soren L., and Marshall.

McConnell, Robert A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving object indication receiver circuit. 2,644,154, June 30.

McCormick, Jerry R. D., Pearl River, N. Y., and S. A. Muller, Dumont, N. J., assignors to American Cyanamid Company, New York, N. Y. Recovery of vitamin B_{12} with mnuobalophenols. 2,643,968, June 30.

McCracken, Charles C., Chicago, Ill. Audio pickup device. 2,643,729, June 30.

McCreary, Elmer J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Means and method for measuring and controlling hydrate forming conditions. 2,643,541, June 30.

McDevitt, Leo G., Lincoln Park, Mich. Mirror support. 2,643,847, June 30.

McIlroy, Joe H., and W. N. Lampe, Amarillo, Tex. Can spout with punch and holddown latch. 2,643,795, June 30.

McKay, Angus C., Forrest, Canberra, New South Wales, Australia. Hypodermic and other syringes or drenchers. 2,643,655, June 30.

McKendrick, Roderick W., Salt Lake City, Utah. Combination knee and ankle joint. 2,643,391, June 30.

McLain, Harold O., Highland Park, Ill. Icing machine. 2,643,522, June 30.

McLain, Joseph H., and T. A. Ruble, U. S. Army, assignors to the United States of America as represented by the Secretary of War. First fire charge composition. 2,643,946, June 30.

McLean, Robert E., Columbus, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Can opener. 2,643,451, June 30.

McLeod, Lena E., Flint, assignor of one-half to F. K. Hardman, Ann Arbor, Mich. Eyeshield. 2,643,382, June 30.

McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Turbo-machine rotor with cooling means. 2,643,851, June 30.

Medlar, Lewis A., Oreland, assignor, by mesne assignments, to Fox Products Company, Philadelphia, Pa. Apparatus for charging batteries. 2,644,125, June 30.

Meincke, Edward, Summit, N. J., and H. T. Smith, Chicago, Ill., assignors to Union Carbide and Carbon Corporation. Blowpipe. 2,643,622, June 30.

Mercer, Richard, London, England. Cyclic switching apparatus. 2,644,041, June 30.

Merck & Co., Inc., assignee: *See*—
Howe, Eugene E., and Tishler.

Merriam, Mylon, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Army. Three-dimensional map model accuracy comparator. 2,643,576, June 30.

Merritt, Glenn W., assignor to The Nolan Company, Bowerston, Ohio. Car door opener and closer. 2,643,855, June 30.

Merz, John W., Belton, Mont. Bulldozer. 2,643,472, June 30.

Metal Specialties, Inc., assignee: *See*—
Auten, Noel E.

Methven, Geoffrey W.: *See*—
Lenard, Frederick P., and Methven.

Meuser, Ludwig: *See*—
Glenn, Harry D., and Meuser.

Meyer, Andre J., Lexington, Ky., and R. E. Davis, Jamestown, Ind., said Davis assignor to Joseph E. Seagram & Sons, Inc., Shively, Ky. Multifuel carburetor. 2,643,647, June 30.

Meyer, Walter R.: *See*—
Siekmann, Harold J., and Meyer.
Meyercord Company, The, assignee: *See*—
Klopfenstein, Jess D.
Michael, Elmer W.: *See*—
Alderman, Mattison W., Massmann, and Michael.
Michell, William P., assignor to Dana Corporation, Toledo, Ohio. Fluid system for hydraulic torque converters. 2,643,517, June 30.
Middlemark, Marvin P., Woodside, N. Y. High-frequency antenna. 2,644,091, June 30.
Milentz, Charles A., St. Louis, Mo. Wrench having spring-closed and lever-locked pivotal jaws. 2,643,568, June 30.
Miles, William S., Hastings on Hudson, assignor to Johns-Manville Corporation, New York, N. Y. Apparatus for cutting sheet material. 2,643,720, June 30.
Miller, Donald L., Horseheads, N. Y., assignor to Bendix Aviation Corporation. Engine starter drive. 2,643,548, June 30.
Miller, Donald L., Horseheads, N. Y., assignor to Bendix Aviation Corporation. Engine starter gearing. 2,644,098, June 30.
Miller, Earle C., assignor to Riley Stoker Corporation, Worcester, Mass. Spreader stoker. 2,643,782, June 30.
Miller, Edward W., assignor to The Fellowa Gear Shaper Company, Springfield, Vt. Machine for cutting and finishing gears, etc., by form cutters. 2,643,583, June 30.
Miller Electric Manufacturing Co., assignee: *See*—
Mulder, Allan C.
Miller, Leonidas C., Los Angeles, Calif. Extrusion device. 2,643,620, June 30.
Mills, James E., Edgewood, Md., assignor to the United States of America as represented by the Secretary of War. Vesicant composition for and method of rendering water hazardous. 2,643,966, June 30.
Milne, Arthur C., Collingwood, N. J., assignor to Central Machine Works, Inc., Philadelphia, Pa. Automatic container-filling machine. 2,643,806, June 30.
Miner, Frederic I., and F. W. Lindblom, Warwick, R. I., assignors to Welsh Manufacturing Company. Ophthalmic mounting. 2,643,580, June 30.
Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Dath, George E., and Lehman.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Drow, Donald F.
Martin, Wilbert A.
Minton, Eugene S.: *See*—
Harper, Wesley A., and Minton.
Miron, Jacques, St. Laurent, Quebec, Canada. Food container and heating means therefor. 2,643,650, June 30.
Misch, Otto R., South Bend, Ind. Domed lock nut with contractable core. 2,643,696, June 30.
Moffett, Fred P., assignee: *See*—
Cathcart, Jack F.
Molla, Charles P., New Hyde Park, assignor to Molla Incorporated, Westbury, N. Y. Bracket coupling for knock-down table-type furniture. 2,643,927, June 30.
Molla Incorporated, assignee: *See*—
Molla, Charles P.
Molybdenum Corporation of America, assignee: *See*—
Tisdale, Norman F., and N. F. Tisdale, Jr.
Monsanto Chemical Company, assignee: *See*—
Boyd, Thomas.
Park, Harold F.
Moore, Robert C., Erdenheim, assignor to Philco Corporation, Philadelphia, Pa. Color television sampling system. 2,644,030, June 30.
More, Arthur R., Caterham, assignor to H. W. Wallace & Company Limited, Croyden, England. Apparatus for measuring the hardness of materials. 2,643,545, June 30.
Morgan Construction Company, assignee: *See*—
Young, Richard W., and Kinnicutt.
Morrill, Alfred R., deceased, by R. W. Morrill, administratrix, Woodstock, Vt., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine frame. 2,643,626, June 30.
Morrill, Ruth W., administratrix: *See*—
Morrill, Alfred R.
Morris, Thomas C., Lexington, and E. C. Johnson, Somerville, assignors to B. B. Chemical Co., Boston, Mass. Curing of rubber cements. 2,644,019, June 30.
Mosley, William D., El Paso, Tex. Trailer hitch structure. 2,643,891, June 30.
Mossman, William K.: *See*—
Dos Santos, Alfred, and Mossman.
Motorola, Inc., assignee: *See*—
Fyler, George W.
Fyler, George W., and Kongable.
Fyler, George W., and Mattingly.
Moule, Rex E., Holden, assignor to Norton Company, Worcester, Mass. Apparatus for casting ribbons of gelatin and the like. 2,643,416, June 30.
Moulton, Joseph D., West Orange, E. F. Schweitzer, Bloomfield, N. J., and T. R. Briggs, Ithaca, N. Y., assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Akaline storage battery with negative iron electrode. 2,644,022, June 30.
Moulton, Lloyd J., Mentor, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Spring clutch type coupling. 2,643,750, June 30.
Mount, George W., Greenfield, Mass. Expanding jaw pliers for removing clips from coil spring assemblies and the like. 2,643,565, June 30.
Mueller, Henry J.: *See*—
Daley, Edward A., Mueller, and Bracy.
Mulder, Allan C., assignor to Miller Electric Manufacturing Co., Appleton, Wis. Variable current welding transformer. 2,644,109, June 30.
Muller, Siegfried A.: *See*—
McCormick, Jerry R. D., and Muller.
Müller-Strobel, Josef, Zurich, Switzerland, assignor to The West Company, Inc., Phoenixville, Pa. Capping head. 2,643,805, June 30.
Müller, Werner, Bernau-Sud, Germany, assignor to Siemens & Halske, Aktiengesellschaft. Electronic discharge tube with current-traversed grid supports. 2,644,086, June 30.
Mullins, Elwood H., Washington, D. C. Ultrahigh impedance electrometer tube voltmeter. 2,644,136, June 30.
Murphy, Raymond J., and E. H. Smith, Brooklyn, N. Y. Centrifugal pump with center intake. 2,643,615, June 30.
Murray Ohio Manufacturing Company, The, assignee: *See*—
Douglas, Alvin P., and Walters.
Musante, Augustine F. S., Media, assignor to Sun Oil Company, Philadelphia, Pa. Wind direction recorder. 2,643,932, June 30.
Muther, Adolph, Zurich, Switzerland. Emergency landing pitch control means on a helicopter rotor. 2,643,726, June 30.
N. V. "De Zilbervisch," assignee: *See*—
Buitelaar, François.
Narmco, Inc., assignee: *See*—
Havens, Glenn G.
Nathan, Alan H.: *See*—
Korman, Jerome, Reid, Nathan, and Hogg.
Nathan, Edward, assignor to Lectra Products Co., New York, N. Y. Knob and shaft connection. 2,643,903, June 30.
National Cash Register Company, The, assignee: *See*—
Desch, Joseph R.
National Lead Company, assignee: *See*—
Pickering, Theodore H., and Maier.
National Research Development Corporation, assignee: *See*—
Williams, Frederic C., Robinson, and Kilburn.
National Telephone Supply Company, The, assignee: *See*—
Klein, Charles H., and Porter.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Broadbent, John H., and Ober.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Waters, Gordon E.
Neely, William H., assignor to The Universal Wire Spring Company, Cleveland, Ohio. Wire spring structure. 2,643,705, June 30.
Neff, William H., Salt Lake City, Utah. Dispensing and distributing device for finely divided materials. 2,643,798, June 30.
Neher, Clarence M.: *See*—
Furr, John B., and Neher.
Neher, Milton L., Coral Gables, Fla. Balancing device for washing machines. 2,643,536, June 30.
Neilsen, Hildaur L., Metuchen, N. J. Coin container. 2,643,702, June 30.
Neish, Richard A., Library, Pa., assignor to United States Steel Corporation. Lead coating a ferrous article. 2,643,975, June 30.
Neon Products, Inc., assignee: *See*—
Smith, Kenneth F.
Nesson, Israel, Lynn, assignor to M. Zaiger, Swampscott, Mass. Wiper blade clip. 2,643,410, June 30.
Nesson, Israel, Lynn, assignor to M. Zaiger, Swampscott, Mass. Wiper blade connector. 2,643,411, June 30.
Nette, Henry C., Pasadena, Calif. Vernier control and pivot mounting for transits and like instruments. 2,643,844, June 30.
Newhouse, Paul D., Sailx, Iowa, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dielectric heating with rotatory work-receiving element. 2,644,073, June 30.
New Merton Board Mills Limited The, assignee: *See*—
Lenard, Frederick P., and Methven.
Newnham, Bernard L. G., North Walsham, England. Ironing machine. 2,643,473, June 30.
Nichols, Ralph G., St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y. Safety device for sliding doors. 2,643,421, June 30.
Nicholson, Dean, Klondyke, Ariz. Hat holder and hanger support. 2,643,773, June 30.
Niles-Bement-Pond Company, assignee: *See*—
Lee, Leighton, H.
Nissly, Walter S., York, Pa. Cigarette lighter. 2,643,930, June 30.
Nolan Company, The, assignee: *See*—
Merritt, Glenn W.
Nolcox, Matthias, Indianapolis, Ind. Automobile passing signal. 2,644,148, June 30.
Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Article sorting machine. 2,643,766, June 30.

Nordsieck, Arnold T., New York, N. Y., assignor to United States of America as represented by the Secretary of War. Tuning and strapping mechanism for magnetrons. 2,644,106, June 30.
Northcott, Roy P.: *See*—
Porter, Frederick W. B., and Northcott.
Norton Company, assignee: *See*—
Erickson, John R.
Moule, Rex E.
Noyes, John D., Fort Lauderdale, Fla. Demountable edger attachment for lawn mowers. 2,643,503, June 30.
Nye-Watt Company, Inc., assignee: *See*—
Patterson, Oliver W., and Bowen.
Nylok Corporation, The, assignee: *See*—
MacBlane, James, and Paterson.
Nystrom, Karl F., Nashotah, and L. L. Lentz, Milwaukee, Wis. Passageway enclosure for railway passenger cars. 2,643,617, June 30.
Ober, Harold E.: *See*—
Broadbent, John H., and Ober.
O'Brien, George E., New Haven, A. Bornmann, Bethany, and A. E. Smith, Oxford, Conn., assignors to United States Rubber Company, New York, N. Y. New chemicals and fungicidal compositions containing same. 2,643,965, June 30.
O'Brien, John C., assignor to General Railway Signal Company, Rochester, N. Y. Discriminator improvement to reduce audio-frequency noise. 2,644,084, June 30.
O'Brien, John J., Elmhurst, N. Y. Compound boring tool. 2,643,692, June 30.
Oelkrue, Willard L., Oil City, Pa. Means for cutting the wrapper from rolls of newsprint and the like. 2,643,716, June 30.
Office National d'Etudes et de Recherches Aeronautiques, assignee: *See*—
Prager, Louis C.
Ohio Brass Company, The, assignee: *See*—
Davis, Charles A.
Ohio Injector Company, The, assignee: *See*—
MacLean, Allen D.
Oliver, Donald S.: *See*—
Maber, Richard A., Oliver, and Wedig.
Olsen, Arthur A., Pittsfield, Mass., and W. F. Skeats, Lansdowne, Pa., assignor to General Electric Company. Air gap construction. 2,644,116, June 30.
Olson, Walter J.: *See*—
Bruckman, William C., Kreitchman, and Olson.
Olszewski, Stephen C., Detroit, Mich. Turret roller bearing. 2,643,920, June 30.
Olszewski, Thaddeus, Mamaroneck, N. Y. Sectional member. 2,643,745, June 30.
Overland, Leo D., Brooklyn, and J. W. Levine, Bayside, N. Y. Automatic means for making special cardboard containers. 2,643,591, June 30.
Owens-Corning Fiberglas Corporation, assignee: *See*—
Stalego, Charles J.
Owens, Freeman H., New York, N. Y. Control cam and apparatus for positioning the same. 2,643,552, June 30.
P. B. R. Manufacturing Co., assignee: *See*—
Pucci, Joseph.
Packenham, Edward W.: *See*—
Westbury, Roy, Bray, and Packenham.
Paeplow, Earl W., Chester, and M. Klachif, Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Package adapter. 2,643,830, June 30.
Palnut Company, The, assignee: *See*—
Sislik, Ivan.
Paradise, Francis C., Fox Lake, assignor to Stewart-Warner Corporation, Chicago, Ill. Adjustable stroke lubricant dispensing valve. 2,643,678, June 30.
Park, Harold F., East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Emulsion polymerization process. 2,643,995, June 30.
Parker, Earl E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Stabilizing polyester materials with phenyl substituted catechols. 2,643,985, June 30.
Parker Halversen Company, assignee: *See*—
Halversen, Roy A.
Parker-Kalon Corporation, assignee: *See*—
Lovisek, Louis J.
Parker, Leon, Burbank, assignor to The H. I. Thompson Company, Los Angeles, Calif. Reinforced silica textile. 2,643,437, June 30.
Parker, Leon, Burbank, assignor to The H. I. Thompson Company, Los Angeles, Calif. Producing batts of silica fibers. 2,643,487, June 30.
Parker, Robert P., Somerville, and J. M. Smith, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Producing 4-amino-2-hydroxybenzoic acid. 2,644,011, June 30.
Parsons, John B., Maumee, Ohio. Solenoid controlled valve unit. 2,644,121, June 30.
Pate, Ira B., assignee: *See*—
Ragsdale, Jesse M.
Paterson, Robert N.: *See*—
MacBlane, James, and Paterson.
Patterson, Oliver W., Oswego, Ill., and K. H. Bowen, assignors to Nye-Watt Company, Inc., Auburn, N. Y. Rug sample display rack. 2,643,774, June 30.
Paulsen, Herman H., Flandreau, S. Dak. Fishing line agitator. 2,643,478, June 30.
Paxton, Dewey M., Phoenix, Ariz., assignor to Industrial Research, Inc. Pressure jet apparatus. 2,643,616, June 30.
Paxton, Gerald C., assignor to General Nailing Machine Corporation, Sanger, Calif. Nailing mechanism for assembled crate heads. 2,643,377, June 30.
Pease, Marshall C., Boston, Mass., assignor to the United States of America as represented by the Secretary of War. Variable-length transmission line. 2,644,140, June 30.
Pellier, Christian V.: *See*—
Matthysse, Irving F., and Pellier.
Perkins, Roscoe, Fort Smith, Ark. Self-sealing collapsible tube. 2,643,794, June 30.
Permutit Company, The, assignee: *See*—
Pick, Eric.
Personal Products Corporation, assignee: *See*—
Atkinson, Ralph L.
Peterson, Joel D., Rivervale, assignor to Bendix Aviation Corporation, Teterboro, N. J. Windshield temperature controller. 2,644,095, June 30.
Pfannmuller, Julius, North Plainfield, N. J., assignor to Wallerstein Company, Inc., New York, N. Y. Concentrate of tyrothricin and its therapeutically active components. 2,643,967, June 30.
Philco Corporation, assignee: *See*—
Moore, Robert C.
Phillips Petroleum Company, assignee: *See*—
Koch, Carl W.
McCreary, Elmer J.
Robinson, Sam P.
Weedman, John A.
Plasse, Thomas E., Mount Vernon, Ohio, assignor to Shellmar Products Corporation, Chicago, Ill. Nursing unit assembling tool. 2,643,448, June 30.
Piecone, Domenic J., Ardmore, Pa., assignor to General Electric Company. Reclosing circuit interrupter. 2,644,046, June 30.
Pick, Eric, East Rockaway, assignor to The Permutit Company, New York, N. Y. Liquid treatment device. 2,643,771, June 30.
Pickens, Clifford J., Sr., Cheviot, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Smoke tree. 2,643,777, June 30.
Pickering, Theodore H., New Rochelle, N. Y., and H. N. Maier, Pottstown, Pa., assignors, by mesne assignments, to National Lead Company, New York, N. Y. Sash construction. 2,643,744, June 30.
Pierce, Albert D.: *See*—
Wagner, Frederick A., Pierce, and Gedmin.
Pierce, William C., New Canaan, Conn., assignor to Emerol Manufacturing Co., Inc., New York, N. Y. Liquid feeding system for internal-combustion engines. 2,643,648. June 30.
Pieroni, Bruno, Bronx, N. Y. Oil burner nozzle. 2,643,915. June 30.
Pike, Robert D., Greenwich, Conn. Making nitric oxide. 2,643,936, June 30.
Pike, Robert D., Greenwich, Conn. Making nitric oxide. 2,643,937, June 30.
Pittsburgh Plate Glass Company, assignee: *See*—
Parker, Earl E.
Pityo, Albert P., Clifton, N. J. Apparatus for cutting wire and butt welding the same to an element. 2,644,069, June 30.
Porter, Frederick W. B., and R. P. Northcott, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Recovery of sulfur from sulfur-contaminated metallic catalysts. 2,643,939, June 30.
Porter, H. K., Inc., assignee: *See*—
Geddes, John W.
Porter, Thomas M.: *See*—
Klein, Charles H., and Porter.
Post, Stanley J., Banning, Calif. Bedstead. 2,643,396, June 30.
Potash Company of America, assignee: *See*—
Douglass, Emory W.
Poulin, Raymond J., Santa Monica, Calif. Spring propelled toy vehicle. 2,643,484, June 30.
Powell, Richard C., Oakland, Calif. Regenerative steam power plant in which an extraction turbine supplies steam to desuperheaters which serve to heat feed water. 2,643,519, June 30.
Powell, William, Jr., Llanerch, Pa., assignor to Bailey Meter Company. Feed-water control system for steam power plants. 2,643,520, June 30.
Powers, John B., Newark, and R. E. Hludeau, Denville, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Method of and apparatus for flame spraying polyethylene and other plastics. 2,643,955, June 30.
Preferred Utilities Manufacturing Corp., assignee: *See*—
Sherman, Morris.
Prym, Hans A.: *See*—
Koehl, Herman, and Prym.
Pucci, Joseph, assignor to P. B. R. Manufacturing Co., Philadelphia, Pa. Foldable table with automatic locking mechanism. 2,643,926, June 30.

Pyle-National Company, The, assignee : *See*—
Keegan, Frank X.
Quayle, George F., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lift truck. 2,643,740, June 30.
Quillinan, Michael J., Bronx, N. Y. Bung construction. 2,643,790, June 30.
Quillinan, Michael J., Bronx, N. Y. Slide rule. 2,643,823, June 30.
Radio Corporation of America, assignee : *See*—
Avins, Jack.
Bond, Donald S.
Trevor, Bertram A.
Radiograph Development Corporation, assignee : *See*—
Fine, Bernard M.
Radio-Television Institute, Inc., assignee : *See*—
Arbuckle, Frederick M.
Itagadale, Jesse M., Fort Gibson, assignor of one-half to I. B. Pate, Muskogee, Okla. Suction dredge nozzle. 2,643,471, June 30.
Ramey, Robert A., Washington, D. C. Separate magnetization of magnetic amplifiers. 2,644,129, June 30.
Ramsland, Ruth, Stavanger, Norway. Fastening device for blankets. 2,643,390, June 30.
Rasch, Carl H., North Tonawanda, N. Y. Storage battery paste with amino dye as ion exchange expander. 2,644,023, June 30.
Read Standard Corporation, assignee : *See*—
Bortner, David C.
Reconstruction Finance Corporation, assignee : *See*—
Curran, John R.
Dahl, Edward T.
Redding, Arnold H., Swarthmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine apparatus. 2,643,853, June 30.
Reece, John O., and S. H., Wandsworth, London, England. Filament tensioner. 2,643,857, June 30.
Reece, Stanley H. : *See*—
Reece, John O., and S. H.
Reed Roller Bit Company, assignee : *See*—
Schmid, Paul E.
Reid, William B., Jr. : *See*—
Korman Jerome, Reid, Nathan, and Hogg.
Reimer, George M., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Work feeding mechanism for sewing machines. 2,643,625, June 30.
Remington Rand Inc., assignee : *See*—
Carissimi, Louis C.
Rensch, Heinz R., Korntal (Wurttemberg), Germany, assignor to International Standard Electric Corporation, New York, N. Y. Circuit arrangement for conference call installations. 2,644,039, June 30.
Republic Aviation Corporation, assignee : *See*—
Watman, Irving.
Research Corporation, assignee : *See*—
Lee, Yuk Wing, Wiesner, and Cheatham.
Reswick, James B., Newtonville, Mass., assignor to The Risdon Manufacturing Company, Naugatuck, Conn. Valve means for aerosol spray dispensers. 2,643,914, June 30.
Riall, Charles T., Floral Park, assignor to Davis & Geck, Inc., Brooklyn, N. Y. Rectangular package of surgical articles in sterilizing liquid. 2,643,764, June 30.
Richards, Albert J., Lowell, assignor to United Elastic Corporation, Easthampton, Mass. Woven elastic fabric. 2,643,686, June 30.
Richards, John M., Stony Point, N. Y. Alignment target for testing eyes. 2,643,575, June 30.
Richardson, Arthur A., Edgewood, assignor to H. M. and G. H. Burt, doing business as The Lloyd Products Company, Providence, R. I. Terminal for electric fixtures. 2,644,144, June 30.
Richman, Donald, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Self-quench superregenerative amplifier. 2,644,080, June 30.
Richman, Donald, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Logarithmic-mode separately quenched superregenerative amplifier. 2,644,081, June 30.
Righter, Walter H., Glendale, Calif. Vehicle brake control apparatus. 2,643,518, June 30.
Righter, Walter H., Glendale, Calif. Vacuum operated brake actuator. 2,643,746, June 30.
Riley, Elwyn G. B., Pinehurst, N. C. Light absorbent coating and coated article. 2,643,982, June 30.
Riley Stoker Corporation, assignee : *See*—
Miller, Earle C.
Rinderknecht, Louis G., Escalon, Calif. Gap filler used for irrigation purposes. 2,643,600, June 30.
Risdon Manufacturing Company, The, assignee : *See*—
Reswick, James B.
Risser, Jacob R., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,644,092, June 30.
Ritepoint Co., assignee : *See*—
Kuhn, Paul R.
Ritter Company, Inc., assignee : *See*—
Lauterbach, Norman E.
Maurer, Jakob and R.
Rivers, Walter, Coeur d'Alene, Idaho. Motor mount. 2,643,837, June 30.
Robinson, Arthur A. : *See*—
Williams, Frederic C., Robinson, and Kilburn.
Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Purification of spent sulfuric acid. 2,643,938, June 30.
Rockman, Benjamin W., Takoma Park, Md. Lockable container for electrical connectors. 2,643,787, June 30.
Rockoff, Joseph, Dayton, Ohio, assignor to The Dayton Rubber Company. Slasher roll. 2,643,436, June 30.
Rockwood, Arthur G., Nutley, assignor to Worthington Corporation, Harrison, N. J. Hydraulic log debarker. 2,643,891, June 30.
Rodanet, Charles H. H., Neuilly-sur-Seine, assignor to Etablissements Ed. Jaeger, Levallois-Perret, Seine, France. Clock. 2,643,506, June 30.
Rolls-Royce Limited, assignee : *See*—
Jubb, Albert.
Romano, Louis, Bronx, N. Y. Window cleaning apparatus. 2,643,412, June 30.
Ronne, Finn, Chevy Chase, Md. Ski pole ring. 2,643,889, June 30.
Roop, Harold D., assignor to Automatic X-Ray Corporation, Los Angeles, Calif. Article grading apparatus. 2,644,097, June 30.
Rosenkrans, Frank A., Bridgeport, Conn., assignor to General Electric Company. Motor-driven dual pumping unit. 2,643,614, June 30.
Rostoker, Louis : *See*—
Finn, Alfred R., and Rostoker.
Routman, Helen D., Sharon, Pa. Baby blanket and harness. 2,643,398, June 30.
Rowe, George E., Wethersfield, Conn., assignor to Emhart Manufacturing Company. Apparatus for handling glassware. 2,643,780, June 30.
Rowell, Lorne A., Lachine, Quebec, assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada. Tangential pneumatic separator. 2,643,734, June 30.
Rubenstein, Harry J., Kansas City, Mo. Rack for displaying articles of merchandise. 2,643,776, June 30.
Ruble, Theodore A. : *See*—
McLain, Joseph H., and Ruble.
Rudman, Edward G., Nashua, N. H. Vertically adjustable table top. 2,643,922, June 30.
Rudy, Robert B., Washington, D. C., assignor to the United States of America as represented by the Secretary of Commerce. Antifreeze tester. 2,643,540, June 30.
Runton, Leslie A., Port Chester, assignor to Alexander Smith, Incorporated, Yonkers, N. Y. Yarn carrier for Axminster looms. 2,643,681, June 30.
Ruska, William E., Grosse Pointe Woods, Mich., assignor to The Budd Company, Philadelphia, Pa. Making plow bottom parts, particularly moldboards. 2,643,438, June 30.
Ruska, William E., Grosse Pointe Woods, Mich., assignor to The Budd Company, Philadelphia, Pa. Making plow bottom parts, particularly plowshares. 2,643,439, June 30.
Russell, Alexander, assignor to The Forgrove Machinery Company Limited, Leeds, England. Wrapping machine. 2,643,501, June 30.
Russell, Philip T., Mount Rainier, Md. Acoustical apparatus. 2,644,123, June 30.
Russell, Stanley D., Racine, Wis., assignor to J. I. Case Company. Belt tightener. 2,643,551, June 30.
Rust, Leonard W., Sr., Hopewell, Va. Vacuum nursing bottle. 2,643,785, June 30.
Sachs, Aaron, assignee : *See*—
Watson, Coleman H.
St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Pattern mechanism. 2,643,533, June 30.
St. Regis Paper Company, assignee : *See*—
Burroughs, Edwin E.
Ste. Helita, assignee : *See*—
Grenier, Joseph P., and Lescieux.
Sales, Charles M., Seymour, Iowa. Hoist. 2,643,856, June 30.
Sandri, John G., Scarsdale, assignor to Dubied Machinery Company, New York, N. Y. Producing full-fashioned knitted articles. 2,643,532, June 30.
Sands, Roy G., Waukegan, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. High-voltage arrester. 2,644,115, June 30.
Sandy Hill Iron & Brass Works, The, assignee : *See*—
Fasoli, Paul A.
Sanford, Jean E., Los Angeles, Calif. Sewing machine feeding device. 2,643,624, June 30.
Sauerman, Ernst, C., Chicago, Ill. Envelope machine. 2,643,594, June 30.
Saunders, Robert H., Oxford, Pa., assignor to Hercules Powder Company, Wilmington, Del. Phenol production. 2,644,014, June 30.
Sauven, Maurice O., Ealing, London, England. Machine for code marking labels, wrappers, cartons, or the like. 2,643,718, June 30.
Scharf, Herbert, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Augsburg, Germany. Making ceramic parts. 2,643,434, June 30.
Scharf, Ruth R. : *See*—
Wyner, Justin L., and Scharf.
Schelderbauer, Robert A., Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Stabilized bleached polyacrylonitrile articles. 2,643,934, June 30.

Scheuerman, Valentine, Union, assignor to Conmar Products Corporation, Newark, N. J. Manufacture of slide fastener wire. 2,643,559, June 30.
Schlage, Ernest L., Burlingame, B. M. Craig, Pasadena, and M. J. McAneny, Los Angeles, Calif., said Schlage and said Craig assignors to said McAneny. Strap fastening tool. 2,643,687, June 30.
Schmid, Paul E., assignor to Reed Roller Bit Company, Houston, Tex. Rotatably mounted muffler assembly 2,643,731, June 30.
Schmitt, Robert A., and J. P. Swed, Gibbstown, and C. P. Williams, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting machine. 2,644,117, June 30.
Schneible, Claude B., Detroit, and A. S. Lundy, Huntington Woods, assignors to Claude B. Schneible Company, Inc., Detroit, Mich. Cupola stack or tower. 2,643,867, June 30.
Schneible, Claude B., Company, Inc., assignee : *See*—
Schneible, Claude B., and Lundy.
Schneider, Edwin G., Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Range selector circuit. 2,644,156, June 30.
Schneider, Max, Dusseldorf, Germany. Web-slitting machine with minutely variable cutting-roll equipment. 2,643,719, June 30.
Schnoll, Nathan, Palisade, assignor to Industrial Devices, Inc., Edgewater, N. J. Voltage indicator. 2,644,134, June 30.
Schnoll, Nathan, Palisade, N. J. Current indicator. 2,644,135, June 30.
Schoen, William, assignor to Masonite Corporation, Laurel, Miss. Making adhesive from lignocellulose. 2,643,953, June 30.
Schoessow, Glen J., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Pressure relief valve having its inlet and outlet in alignment. 2,643,673, June 30.
Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Linkage for lift trucks. 2,643,894, June 30.
Schultz, Howard L. : *See*—
Cooper, Harold S. G., and Schultz.
Schumacher, Erwin A., Parma, and O. W. Heise, Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Anode assembly for primary galvanic cell. 2,644,024, June 30.
Schutte & Koerting Co., assignee : *See*—
Boehm, Frederick.
Schwartz, Albert, Cleveland, Ohio. Door assembly and holder mechanism. 2,643,420, June 30.
Schwarz, Fred, Yonkers, assignor to Ads Metal Products Co., Inc., Brooklyn, N. Y. Adjustable shoulder strap and buckle. 2,643,431, June 30.
Schweda, Albert M., assignor to Union Special Machine Company, Chicago, Ill. Mounting for sewing machine power units. 2,643,838, June 30.
Schweitzer, Edward F. : *See*—
Moulton, Joseph D., Schweitzer, and Briggs.
Scott, Robert E., Southfield Township, Oakland County, assignor to G. E. Gagnier, Detroit, Mich. Fastening device. 2,643,433, June 30.
Scranton, Clifford B., and C. T. Brewer, St. Louis, Mo., said Scranton assignor by decree of distribution to H. B. Scranton. Thread trimming machine. 2,643,435, June 30.
Scranton, Helen B., assignee : *See*—
Scranton, Clifford B., and Brewer.
Scranton, Norman A., and M. A. White, assignors to A. E. Staley Manufacturing Company, Decatur, Ill. Bag filling tube and associated bag top gripping apparatus. 2,643,804, June 30.
Seagram, Joseph E., & Sons, Inc., assignee : *See*—
Meyer, Andre J., and Davis.
Seal Incorporated, assignee : *See*—
Krueger, Theodore H.
Sebald, Joseph F., Bloomfield, N. J., assignor to Worthington Corporation. Water treating apparatus. 2,643,976, June 30.
Seiger, Harry W., Santa Monica, Calif. Enuresis bed pad. 2,644,050, June 30.
Semler, Loren H., Chicago, Ill. Magazine and feed means for stapling machines. 2,643,376, June 30.
Shaak, George S., Lebanon, Pa. Machine for inking the edges of shoe soles and heels. 2,643,635, June 30.
Shamah, Israel, New York, N. Y., assignor to Ismah Corporation of New York. Automatic mercury switch fuse. 2,644,054, June 30.
Shanahan, Thomas J., Jr., Chicago, Ill. Jewelry cleaning device. 2,643,661, June 30.
Sharp, Chester E., Little Silver, N. J., assignor to the United States of America as represented by the Secretary of War. Automatic frequency control for receiver-transmitter. 2,644,077, June 30.
Sharpe, Arthur H., Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Totaliser function selection and symbol printing mechanism. 2,643,818, June 30.
Shawlnigan Chemicals Limited, assignee : *See*—
Germain, Leo M.
Shell Development Company, assignee : *See*—
Van der Waals, Joan H.
Shellman, Norman C., Rye, N. Y., assignor of one-half to E. H. Yonkers, Jr., Glencoe, Ill. Dust collector. 2,643,733, June 30.
Shellmar Products Corporation, assignee : *See*—
Baxter, Thomas R.
Plasse, Thomas E.
Sherman, Charles A., Tacoma, Wash. Veneer patch routing and patch holding during routing mechanism. 2,643,689, June 30.
Sherman, Morris, Port Washington, assignor to Preferred Utilities Manufacturing Corp., New York, N. Y. Oil burner carburetion. 2,643,708, June 30.
Sherman, Whitney D. : *See*—
Ahlmeyer, Heins, and Sherman.
Shill, Alexander C., New York, N. Y. Antiskid or traction device. 2,643,697, June 30.
Siekmann, Harold J., and W. R. Meyer, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Multiple station center drive crankshaft lathe. 2,643,570, June 30.
Siemens & Halske, Aktiengesellschaft, assignee : *See*—
Müller, Werner.
Sigmon, Ross M., Jr., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Coaxial dial locking device. 2,643,632, June 30.
Sikorsky, Igor I., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Helicopter rotor. 2,643,724, June 30.
Silva, Guy H., San Diego, Calif. Fish catching apparatus. 2,643,477, June 30.
Silik, Ivan, assignor to The Palnut Company, Irvington, N. J. Tube mount. 2,643,839, June 30.
Skalka, David, New York, N. Y. Navigational aid device. 2,643,457, June 30.
Skeats, Wilfred F. : *See*—
Olsen, Arthur A., and Skeats.
Skoglund, Bertil J. : *See*—
Doering, Charles and H. H., and Skoglund.
Smith, A. O., Corporation, assignee : *See*—
Heath, William C.
Martin, Wesley G.
Smith, Alexander, Incorporated, assignee : *See*—
Runton, Leslie A.
Smith, Allen E. : *See*—
O'Brien, George E., Bornmann, and Smith.
Smith, Cyril R. B., Sutton Coldfield, and F. H. T. Ison, assignors, by mesne assignments, to Amal Limited, Birmingham, England. Carburetors for internal-combustion engines. 2,643,865, June 30.
Smith, Delbert M Morton, Minn. Feeder device for egg cleaning machines. 2,643,752, June 30.
Smith, Edward H : *See*—
Murphy, Raymond J., and Smith.
Smith, Edwin W., Dallas, Tex. Stripping vane for separators. 2,643,736, June 30.
Smith, F. H., Manufacturing Company, assignee : *See*—
Curtis, Clarence R.
Smith, H. B., Company, Incorporated, The, assignee : *See*—
Dunn, William J.
Smith, Hugh T. : *See*—
Meincke, Edward, and Smith.
Smith, James M., Jr. : *See*—
Parker, Robert P., and Smith.
Smith-Johannsen, Robert, Schenectady, N. Y., assignor to General Electric Company. Improving the adhesion of organopolysiloxanes to solid surfaces. 2,643,964, June 30.
Smith, Kenneth F., assignor to Neon Products, Inc., Lima, Ohio. Forming embossed and decorated panels. 2,643,417, June 30.
Smith, Lucy H., Naval Base, S. C. Screen for vehicles. 2,643,711, June 30.
Smith, Ored L. : *See*—
Levin, Carl A., and Smith.
Smith, Otho W., Bedford, Ind. Tandem trailer device. 2,643,890, June 30.
Smith, Robert M., Brownwood, Tex. Secretary type pocket wallet. 2,643,695, June 30.
Snap-On Tools Corporation, assignee : *See*—
Walraven, George M., and Elwell.
Snortland, Selmer G. : *See*—
Beers, Bobbie E., and Snortland.
Snyder, Clermont J., and W. G. MacLelland, Hastings-on-Hudson, N. Y., assignors to Anaconda Wire and Cable Company. Cleaning cupreous articles. 2,643,961, June 30.
Soares, Joaquim P., and S. J. London, Norfolk, Mass. Moistureproof salt cellar. 2,643,797, June 30.
Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva, assignee : *See*—
Claude, André.
Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture, assignee : *See*—
Sourdet, Maurice.
Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Conveyer mechanism with article turning units. 2,643,778, June 30.
Socony-Vacuum Oil Company, Incorporated, assignee : *See*—
Summers, Gerald C.

Sorensen & Company, Inc., assignee: *See*—
Henrich, William H.
Levy, Ernest, Jr.

Soss, Mark, Spokane, Wash. Seeding machine. 2,643,623, June 30.

Soukaras, Komnenus M., Miami, Fla. Phase comparing system. 2,644,133, June 30.

Sourdet, Maurice, assignor to Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture, Paris, France. Producing a fertilizer from phosphate rock. 2,643,948, June 30.

Sperisen, Ernest, assignor to Gisholt Machine Company, Madison, Wis. Boring bar pilot support. 2,643,554, June 30.

Spreckelmeier, Edwin H., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Control system for folding machines. 2,643,879, June 30.

Stålbecker, Sture E., and S. B. Tibbling, Stockholm, Sweden, assignors to International Business Machines Corporation, New York, N. Y. Arrangement in the distant control of typewriters. 2,644,033, June 30.

Stålbecker, Sture E., and S. B. Tibbling, Stockholm, Sweden, assignors to International Business Machines Corporation, New York, N. Y. Remote control of typewriters. 2,644,034, June 30.

Stalego, Charles J., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Method and apparatus for producing fibers. 2,643,415, June 30.

Staley, A. E., Manufacturing Company, assignee: *See*—
Scranton, Norman A., and White.

Stalker, Edward A., Bay City, Mich. Gas turbine power plant with controlled rate of rotation. 2,643,512, June 30.

Standard Oil Company, assignee: *See*—
Lien, Arthur P., and Evering.
Lindert, Albert W.
McCaulay, David A., and Lien.

Standard Oil Development Company, assignee: *See*—
Tegge, Bruce R.

Stanley Works, The, assignee: *See*—
Manoogian, Harold M.

Stanton, William E., Corpus Christi, Tex. Fishing reel. 2,643,829, June 30.

Stanworth, Stephen, assignor to Thomas Ashworth and Company Limited, Rosegrove, Burnley, England. Manufacture of warp and other flanged beams. 2,643,902, June 30.

Stassinos, Odyseus, Charlotte, N. C. Emergency stretcher. 2,643,395, June 30.

Steibel, James P., assignor to The Dumore Company, Racine, Wis. Self-contained power unit. 2,643,555, June 30.

Stelling, John H., Quincy, Mass., assignor to Bethlehem Steel Company. Steam reheater. 2,643,862, June 30.

Stettner, Simon: *See*—
Ehrenreich, Stella, and Stettner.

Stevens, Rollin E., Vienna, Va., assignor to the United States of America as represented by the Secretary of the Department of the Interior. Extractor for removing soluble constituents in chemical analysis. 2,643,940, June 30.

Stevenson, James E., Arcadia, Calif. Trap hook. 2,643,479, June 30.

Stewart-Warner Corporation, assignee: *See*—
Paradise, Francis C.
Tear, Harry R.

Stocking, Harold E., Trenton, N. J., assignor to General Electric Company. Water inlet system for automatic washing machines. 2,643,665, June 30.

Stokes, Irving: *See*—
Maresca, Peter T., and Stokes.

Stone, Melvin L., East Cleveland, Ohio, assignor to General Electric Company. Incandescent lamp mount and manufacture thereof. 2,644,102, June 30.

Storbakken, Hilmer, Viroqua, Wis. Pocket calculator. 2,643,824, June 30.

Stover, Ancil C., assignor to W. W. Eisenhauer, W. P. Ellwood, and I. J. and L. E. Eisenhauer, copartners doing business as The Eisenhauer Manufacturing Company, Van Wert, Ohio. Swingable axle stabilizer system for paralleling natural steering forces. 2,643,895, June 30.

Stover, Ancil C., assignor to W. W. Eisenhauer, W. P. Ellwood, and I. J. and L. E. Eisenhauer, copartners doing business as The Eisenhauer Manufacturing Company, Van Wert, Ohio. Suspension for road vehicles. 2,643,896, June 30.

Straight, David M.: *See*—
Gold, Harold, and Straight.

Strumbos, William P., Detroit, Mich. Cigarette lighter. 2,643,535, June 30.

Summers, Gerald C., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Square wave pulse generating system. 2,644,130, June 30.

Sun Oil Company, assignee: *See*—
Harper, James I.
Musante, Augustine F. S.
Thompson, Norman.

Sunbeam Corporation, assignee: *See*—
Graham, Bernard A., and Jepson.

Suzukawa, Hiroshi, Suginami-Ku, assignor to Canon Camera Company, Ltd., Chuonku, Tokyo, Japan. Flash synchronizer for curtain shutter cameras. 2,643,597, June 30.

Sveinsson, Louis, Baltimore, Md. Sailboat construction. 2,643,628, June 30.

Swank, Lewis R., Lewiston, Idaho. Hydraulically operated sprinkler. 2,643,643, June 30.

Swanson, Melvin L., Mission, S. Dak. Conveyer for corn harvesters. 2,643,759, June 30.

Swanton, Charles L., North Chili, assignor to General Railway Signal Company, Rochester, N. Y. Railway switch machine controller. 2,644,120, June 30.

Swed, James P.: *See*—
Schmitt, Robert A., Swed, and Williams.

Sylvan, Joseph, Berkley, Mich. Window assembly. 2,643,710, June 30.

Symmons, Paul C., Boston, Mass. Duplex valve. 2,643,675, June 30.

Syntex S. A., assignee: *See*—
Zaffaroni, Alejandro.

Tanner, Fritz, St. Gallen, assignor to Gebruder Buhler, Uzwil, Switzerland. Method and apparatus for separating solids from gases. 2,643,769, June 30.

Turwater, Lawson, Redlands, Calif., assignor to Tarwater Railway Supply Co. Electric tie tamper. 2,643,649, June 30.

Tarwater Railway Supply Co., assignee: *See*—
Tarwater, Lawson.

Tasset, Everett J., Pratt, Kans. Attachment for velocipedes. 2,643,783, June 30.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Interpolymers of selected 2-alkenyl 2-alkenoates or like esters with selected 2-alkenyl or like chlorides, ethers or esters with or without a different copolymerizable monoolefinic compound. 2,643,991, June 30.

Taylor, Matthew M., Spondon, near Derby, England, assignor to British Celanese Limited. Reed for textile purposes and making same. 2,643,684, June 30.

Taylor, Maurice K., and L. N. Vaughan-Jones, assignors to Ferranti Limited, Hollinwood, England. Wave signal transponder system. 2,644,078, June 30.

Teal, Roy H., La Grange, Ga. Dispenser for collapsible tubes. 2,643,795, June 30.

Tear, Harry R., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Relief device for lubricating systems. 2,643,739, June 30.

Tegge, Bruce R., Chatham, N. J., assignor to Standard Oil Development Company. Continuous process for copolymerizing styrene and isobutylene. 2,643,693, June 30.

Tennant, A. S., assignee: *See*—
Auldridge, Dexter D.

Tennessee Valley Authority, assignee: *See*—
Edwards, Lee A.

Texas Company, The, assignee: *See*—
Herzog, Gerhard.

Textile and Chemical Research Company, Limited, assignee: *See*—
Drisch, Nicolas.

Thayer Company, assignee: *See*—
Troendle, William C.

Theobald, Louis R., Sr., assignor of fifty percent to J. W. McCleskey, Sr., Hattiesburg, Miss. Can cap with receptacle. 2,643,789, June 30.

Thomas, Johnie B., Bamberg, S. C. Culinary utensil. 2,643,907, June 30.

Thomas, Richard J., assignor to The Falk Corporation, Milwaukee, Wis. Power transmission coupling. 2,643,529, June 30.

Thompson, H. I., Company, The, assignee: *See*—
Parker, Leon.

Thompson, Henry M., Hampton, Va. Bib apron and fasteners therefor. 2,643,384, June 30.

Thompson, Norman, Springfield, assignor to Sun Oil Company, Philadelphia, Pa. Nonsticking wax article and preparation. 2,643,973, June 30.

Thorpe, William H., assignor to Walker Manufacturing Company, Philadelphia, Pa. Repair head for heddles. 2,643,683, June 30.

Thrift, Sterling R., Washington, D. C. Directive antenna system. 2,644,158, June 30.

Thwaites, Bryan, assignor to The Imperial Trust for the Encouragement of Scientific and Industrial Research, London, England. Aerodynamic lift-producing device. 2,643,852, June 30.

Tibbling, Stig H.: *See*—
Stålbecker, Sture E., and Tibbling.

Time, Incorporated, assignee: *See*—
Klyce, Battle H.

Tisdale, Norman F., and N. F. Tisdale, Jr., Pittsburgh, Pa., assignors to Molybdenum Corporation of America, New York, N. Y. Production of iron and steel. 2,643,949, June 30.

Tisdale, Norman F., Jr.: *See*—
Tisdale, Norman F., N. F. Tisdale, Jr.

Tishler, Max: *See*—
Howe, Eugene E., and Tishler.

Todd, Bryan J., R. E. Turner, and R. E. Broberg, assignors to Associated Motorists Petrol Company Limited, Wellington, New Zealand. Apparatus for use in the delivery of liquids from containers. 2,643,800, June 30.

Todd, Floyd, Springfield, Pa. Method and excitation chamber for spectroscopic analyses. 2,643,574, June 30.

Travis, William, Southport, assignor to Connollys (Blackley) Limited, Manchester, England. Natural silk insulated electric conductor. 2,644,029, June 30.

Trevor, Bertram A., Riverhead, N. Y., assignor to Radio Corporation of America. Automatic frequency control. 2,644,035, June 30.

Troendle, William C., assignor to Thayer Company, Gardner, Mass. Convertible folding baby carriage. 2,643,893, June 30.

Trozel Manufacturing Company, The, assignee: *See*—
Kalter, Harold E.

Tung-Sol Electric Inc., assignee: *See*—
Braunsdorff, Reginald K.

Turner, George L.: *See*—
Lapsley, Robert, and Turner.

Turner, George L., and R. Lapsley, assignors to Clark Equipment Company, Buchanan, Mich. Fork construction for industrial trucks. 2,643,784, June 30.

Turner, Reginald, Horsforth, near Leeds, England. Production of ice-cream blocks. 2,643,526, June 30.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Controller for loom dobby fingers. 2,643,682, June 30.

Turner, Robert E.: *See*—
Todd, Bryan J., Turner, and Broberg.

Tury, Eugene, Alexandria, Va. Retarding thrust file holder. 2,643,442, June 30.

Uarco Incorporated, assignee: *See*—
Lach, John.

Umberger, Jacob Q., Holmdel, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. transferring an image-bearing gelatin layer to another film base. 2,643,950, June 30.

Underwood Corporation, assignee: *See*—
Sharpe, Arthur H.

Union Carbide and Carbon Corporation, assignee: *See*—
Hamister, Victor C.
Herbet, Harry T.
Meincke, Edward, and Smith.
Powers, John B., and Bludeau.
Schumacher, Erwin A., and Heise.
Walter, Andrew T.

Union Special Machine Company, assignee: *See*—
Reimer, George M.
Schweda, Albert M.

United Aircraft Corporation, assignee: *See*—
Sikorsky, Igor I.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Herterick, Vincent R.

United Elastic Corporation, assignee: *See*—
Richards, Albert J.

United Manufacturing Company, assignee: *See*—
Andres, Lloyd J.

United Shoe Machinery Corporation, assignee: *See*—
Morrill, Alfred R.

United States Rubber Company, assignee: *See*—
Glenn, Harry D., and Meuser.
O'Brien, George E., Bornmann, and Smith.
Tawney, Pliny O.

United States Steel Corporation, assignee: *See*—
Keammerer, Roy P.
Neish, Richard A.

Universal Wire Spring Company, The, assignee: *See*—
Blumensaadt, Svend G.
Neely, William H.

Upjohn Company, The, assignee: *See*—
Korman, Jerome, Reid, Nathan, and Hogg.

Urbschat, Ewald, Koln-Muhlhem, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Organic arsenical compounds. 2,644,005, June 30.

Utah Scientific Research Foundation, assignee: *See*—
Hardman, James A.

Utica Drop Forge & Tool Corporation, assignee: *See*—
Barnes, William A.

Van der Waals, Joan H., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Separation of oxygenated organic compounds. 2,644,006, June 30.

Van Endert, Fritz: *See*—
Lindemann, Waldemar, and Van Endert.

Van Heeckeren, Willem J., Eindhoven, Netherlands, and P. H. Clay, deceased, Eindhoven, Netherlands, by J. D. Heijligers, administrator, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Method and system for braking hot-gas piston engines and for utilizing heat generated thereby in operation thereof. 2,643,509, June 30.

Van Osselen-Clay, Petronella, heir: *See*—
Clay, Pieter H.

Vanta Company Inc., The, assignee: *See*—
Wyner, Justin L., and Scharf.

Vapor Recovery Systems Company, The, assignee: *See*—
Lee, Joseph F., and Denny.

Vaughan-Jones, Ian N.: *See*—
Taylor, Maurice K., and Vaughan-Jones.

Venner, William M., Ladue, and P. L. Bowser, Jr., University City, Mo. Brake plate and cylinder assembly. 2,643,742, June 30.

Venner, William M., Clayton, and P. L. Bowser, Jr., University City, Mo. Trunk piston. 2,643,921, June 30.

Viko, Inc., assignee: *See*—
Ackermann, Albert J.

Villmer, Joseph P., Los Angeles, Calif. Swiveled hondoo. 2,643,638, June 30.

Vincent, Edwin E., Springfield, Mass. Nonfouling spool for fishing reels. 2,643,828, June 30.

Vines, Oscar L., New York, N. Y., assignor to Alford Cartons, Ridgefield Park, N. J. Carton. 2,643,813, June 30.

Viviano, Joseph R., assignee: *See*—
Corpora, Michael.

Von Hoorn, Fred G., Nichols, Conn., assignor to General Electric Company. Renewable fuse link. 2,644,060, June 30.

Vore, Milton P.: *See*—
Corteggiano, William L., Vore, and Edwards.

Vosbikian, Peter S. and T. S., Melrose, Pa. Mop and extractor therefor. 2,643,407, June 30.

Vosbikian, Thomas S.: *See*—
Vosbikian, Peter S. and T. S.

Waddington, John, Limited, assignee: *See*—
Bradley, Harry.

Wagner, Frederick A., East Lansing, A. D. Pierce, and J. Gedmin, Lansing, assignors to Campbell, Wyant and Cannon Foundry Co., Muskegon Heights, Mich. Means for unloading articles from overhead conveyers. 2,643,761, June 30.

Wagner, James M., Harrisburg, Pa. Automobile brake shoe lining protector. 2,643,450, June 30.

Walker Manufacturing Company, assignee: *See*—
Thorpe, William H.

Walker, William J., Sagamore, Pa. Wild game calling device. 2,643,483, June 30.

Wallace, H. W., & Company Limited, assignee: *See*—
More, Arthur R.

Wallace, James M.: *See*—
Edwards, Andrew W., and Wallace.

Wallace, James M., East McKeesport, and E. F. Beach, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fuse cutout. 2,644,055, June 30.

Wallace, Lee, Fort Worth, Tex. Vehicle standard. 2,643,841, June 30.

Wallerstein Company, Inc., assignee: *See*—
Pfannmuller, Julius.

Walraven, George M., and W. R. Elwell, assignors to Snap-On Tools Corporation, Kenosha, Wis. Timing indicator for internal-combustion engines. 2,644,131, June 30.

Walter, Andrew T., South Charleston, W. Va., assignor to Union Carbide and Carbon Corporation. Heat-stabilized polychlorotrifluoroethylene resins. 2,643,988, June 30.

Walters, Leonard J.: *See*—
Douglas, Alvin P., and Walters.

Walton, Howard T.: *See*—
Ludwig, Leon B., Fockler, Formhals, and Walton.

War, United States of America as represented by the Secretary of, assignee: *See*—
Ball, Alphens M.
Bell, Persa R., Jr.
Cooper, Harold S. G., and Schultz.
Healy, Maurice F.
Jacobsen, Andrew B.
McConnell, Robert A.
McLain, Joseph H., and Ruble.
Mills, James E.
Nordsieck, Arnold T.
Pease, Marshall C.
Risser, Jacob R.
Schneider, Edwin G.
Sharp, Chester E.
Wilner, John T.

Warner & Swasey Company, The, assignee: *See*—
Longstreet, James R., and Jacques.

Warrick, Frederick P., Birmingham, Mich. Magnetically biased centrifugal speed sensing means. 2,643,871, June 30.

Waters, Gordon E., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Pressure actuated switch. 2,644,049, June 30.

Watman, Irving, Hempstead, assignor to Republic Aviation Corporation, near Farmingdale, N. Y. Mechanical shrink strut for aircraft landing gears. 2,643,834, June 30.

Watrous, Ward W., Jr., Chatham, assignor to Chatham Electronics Corporation, Newark, N. J. Anode insulating structure. 2,644,101, June 30.

Watson, Coleman H., Birmingham, assignor of 60 per cent to Aaron Sachs, Bessemer, Ala. Portable electric spot welding apparatus. 2,644,067, June 30.

Way, Glenn W., Delaware, Ohio. Door latching and operating mechanism. 2,643,906, June 30.

Way, Walter C., Burke, Idaho. Pressure governed time valve. 2,643,644, June 30.

Weber, Donald P., assignor to The H. C. Godman Company, Columbus, Ohio. Shoemaking machine. 2,643,405, June 30.

Wedig, Frank L., Jr.: *See*—
Maher, Richard A., Oliver, and Wedig.

Weedman, John A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Continuous adsorption-desorption process. 2,643,972, June 30.

Wegner, Theodore O., London, England. Absorbent wristband. 2,643,389, June 30.

Wehmanen, Oscar Y., Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Sealing element. 2,643,904, June 30.

Wehrenfennig, Hugo, assignor to Ernst Leitz G. m. b. H., Optische Werke, Wetzlar (Lahn), Germany. Bayonet union for camera objective parts. 2,643,581, June 30.

Weiss, Arthur J., West Englewood, N. J., assignor to Robert Gair Company, Inc., New York, N. Y. Making cartons and carton blanks. 2,643,589, June 30.

Welsh Manufacturing Company, assignee: *See*—
Miner, Frederic I., and Lindblom.

Wertepny, Alexander and R. J., assignors of 60 per cent to S. A. and E. M. Wertepny and B. Luscalzo, Chicago, Ill. Cutting teeth in pinking shears. 2,643,584, June 30.

Wertepny, Edward M., assignee: *See*—
Wertepny, Alexander and R. J.

Wertepny, Rudolph J.: *See*—
Wertepny, Alexander and R. J.

Wertepny, Stanley A., assignee: *See*—
Wertepny, Alexander and R. J.

West Company, Inc., The, assignee: *See*—
Müller-Strobel, Josef.

Westbury, Roy, Oldbury, Bridgnorth, P. E. Bray and E. W. Packenham, Compton, assignors to Integral Limited, Staffordshire, England. Hydraulic pump. 2,643,613, June 30.

Western Electric Company, Incorporated, assignee: *See*—
Sigmon, Ross M., Jr.

Westinghouse Electric Corporation, assignee: *See*—
Bradley, Schuyler L.
Corteggiano, William L., and Kinn.
Corteggiano, William L., Vore, and Edwards.
Edwards, Andrew W., and Wallace.
Esselman, Walter H.
Frink, Russell E., and Fischer.
Hunter, Lloyd P.
Lingal, Harry J., and Findley.
Ludwig, Leon R., Fockler, Formhals, and Walton.
Newhouse, Paul D.
Redding, Arnold H.
Wallace, James M., and Beach.

Wharton, William, Hadley Wood, near Barnet, England. Cultivating and tilling machine. 2,643,399, June 30.

White, Gerald A., Los Angeles, and L. W. Williamson, Wilmar, assignors to C. F. Braun & Co., Alhambra, Calif. Fuel burner. 2,643,916, June 30.

White, Le Roy, North Bend, Oreg. Pocket routing machine. 2,643,690, June 30.

White, Mathias A.: *See*—
Scranton, Norman A., and White.

White, Paul H., Jr., Los Angeles, Calif. Magnetic fluid coupling device. 2,643,748, June 30.

Whitesell, Harry, Chicago, Ill. Contact wheel and the like. 2,643,549, June 30.

Whitesell, John C., Narberth, assignor to The Budd Company, Philadelphia, Pa. Transfer device for traveling conveyers. 2,643,755, June 30.

Widmer, Willy, Bottmingen, and A. Fasciati, assignors to Ciba Limited, Basel, Switzerland. Triazine monoazo dyestuffs. 2,643,996, June 30.

Wiebe, Albert, Brooklyn, N. Y. Headwear sizing gauge. 2,643,461, June 30.

Wiesner, Jerome B.: *See*—
Lee, Yuk Wing, Wiesner, and Cheatham.

Wilbushewich, Eugen, Haifa, Israel. Freezing plant. 2,643,524, June 30.

Willett, Warren P., Westmoreland Hills, Md. Flow dividing valve. 2,643,664, June 30.

Williams, Charles P.: *See*—
Schmitt, Robert A., Swed, and Williams.

Williams, Frederic C., Timperley, A. A. Robinson, Scunthorpe, and T. Kilburn, Davyhulme, Manchester, assignors to National Research Development Corporation, London, England. Circuit for adding binary numbers. 2,643,820, June 30.

Williams, Herbert D., Monroe, Conn., assignor to General Electric Company. Switch. 2,644,062, June 30.

Williams, John N., New York, N. Y. Stereoscopic viewing device. 2,643,577, June 30.

Williams, John N., New York, N. Y. Stereoscopic viewing device. 2,643,578, June 30.

Williamson, Lewis W.: *See*—
White, Gerald A., and Williamson.

Williamson, Oscar H., Riverside, Ill., assignor to International Paper Company, New York, N. Y. Box assembling machine. 2,643,378, June 30.

Willis, Sumner C., and L. W. Brulin, New York, N. Y., assignors to American Seating Company, Grand Rapids, Mich. Side frame for chair-desks. 2,643,703, June 30.

Wilner, John T., Elizabeth, N. J., assignor to the United States of America as represented by the Secretary of War. Electrical tuning device. 2,644,095, June 30.

Wilson, Harry S., Andrews, Tex. Mobile suction machine for removing insects from plants. 2,643,482, June 30.

Wise, William M., Detroit, Mich. Load weighing system for lift trucks and the like. 2,643,781, June 30.

Wise, William M., Royal Oak, Mich. Hydraulic lift scale. 2,643,872, June 30.

Wise, William, M., Royal Oak, Mich. Hydraulic weighing scale and charging and conditioning the same. 2,643,873, June 30.

Wittstock, Alfred G., Irvington, assignor of fifteen per cent to R. Burdick, Irvington, and twenty-five per cent to H. C. Kern, Newark, N. J. Separable fastener. 2,643,429, June 30.

Wobbe, Delbert E., Maywood, Ill., assignor to American Can Company, New York, N. Y. Producing cushion in seams of cuntainers. 2,643,627, June 30.

Woelfer, Robert O., Rahway, N. J. Carton opening, filling, and closing mechanism. 2,643,497, June 30.

Wohlgemuth, Adolph J., Westfield, N. J. Electric typewriter. 2,643,753, June 30.

Wolf, Cecil R., Rock Falls, assignor to Frantz Manufacturing Co., Sterling, Ill. Overhead door structure. 2,643,714, June 30.

Wood, Kermit P., Berkeley, Calif. Combination basket strainer and stopper. 2,643,394, June 30.

Woods, Lowell C., Greenfield, Ohio. Fence guide for mowers. 2,643,504, June 30.

Woodson, Thomas T., Bridgeport, Conn., assignor to General Electric Company. Combination water inlet and soap dispenser for washing machines. 2,643,537, June 30.

Wooley, Merwyn C.: *See*—
Boardman, Edward M., and Wooley.

Worthington Corporation, assignee: *See*—
Cronk, George W.
Rockwood, Arthur G.
Sebald, Joseph F.

Wright, Thomas H., Miami, Fla. Compressor clip for hydraulic valve tappets. 2,643,447, June 30.

Wrigley, Wm., Jr., Company, assignee: *See*—
Bonebrake, Gay M.

Wyner, Justin L., and R. R. Scharf, Brookline, assignors to The Vanta Company Inc., Newton, Mass. Double-breasted undergarment for infants' wear. 2,643,386, June 30.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Quayle, George F.
Schroeder, Charles S.

Yonkers, Edward H., Jr., assignee: *See*—
Shellman, Norman C.

Young, Richard W., and R. Kinnicutt, Jr., assignors to Morgan Construction Company, Worcester, Mass. Handling of rod bundles or similar annuli. 2,643,756, June 30.

Youngstown Steel Door Company, The, assignee: *See*—
Jones, Clarence R.

Zaffaroni, Alejandro, Rochester, N. Y., assignor to Syntex S. A., Mexico City, Mexico. Production of 17 α-hydroxycorticosterone by tissue oxidation of 17 α-hydroxyprogesterone. 2,643,970, June 30.

Zalger, Max, assignee: *See*—
Nesson, Israel.

Zakas, Evangelos, Brooklyn, N. Y. Shoulder mounted support for telephone transmitter-receivers. 2,644,043, June 30.

Zikmund, Edward J., and S. E. Hatchett, Syracuse, N. Y., assignors to General Electric Company. Switch wafer mounting clip. 2,644,063, June 30.

Zimmerman, Harry, Toronto, Ontario, Canada. Polishing and buffing wheel. 2,643,493, June 30.

Zirzow, Elmer C.: *See*—
Dietert, Harry W., Adair, and Zirzow.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Drying apparatus. E. D. Spierer. Re. 23,674, June 30.

Hinge, Cover lift. A. R. Turner. Re. 23,678, June 30.

Pilot-operated valve. P. Spence. Re. 23,675, June 30.

Power apparatus for steering and the like, Electric. W. F. Penrose. Re. 23,673, June 30.

Processing lubricating oil by treating with sulfuric acid, a phosphorus sulfide and a base and the resulting products. J. D. Bartleson. Re. 23,677, June 30.

Processing solvent-extracted lubricating oil by treating with phosphorus pentasulfide and a base and the resulting products. J. D. Bartleson. Re. 23,676, June 30.

LIST OF DESIGN INVENTIONS

Air conditioning unit, Window mounted. J. E. Wogoman. 169,954, June 30.

Belt, Apparel. A. W. Little. 169,942, June 30.

Calculator. K. P. Jaeger. 169,941, June 30.

Car body, Railway. A. H. Girardy, C. V. Norby, and D. W. Doman. 169,938, June 30.

Chair. T. D. Quintana. 169,948, June 30.

Chair or the like. D. Chapman and R. G. Reineman. 169,930–1, June 30.

Clock. J. F. Punzak. 169,947, June 30.

Decanter. H. C. Berkowitz. 169,926, June 30.

Engine, Gasoline. A. W. Mall and O. Lingle. 169,943. June 30.

Fabric or similar article, Textile. B. Rose. 169,949. June 30.

Fastener, Adjustable. A. E. Carlile. 169,929, June 30.

Furnace and automatic pouring unit, Combined holding. M. Tama. 169,951, June 30.

Hanger, Garment. H. Coon. 169,934, June 30.

Holder, Lingerie. H. L. Button. 169,928, June 30.

Lighter fuel filler. W. H. Gey. 169,937, June 30.

Mirror, Rearview. J. Fischer. 169,936, June 30.

Ornament, Watch chain. E. R. Badillo. 169,925, June 30.

Panel for laundry apparatus. W. H. Welcher and S. G. Mundt. 169,953, June 30.

Seal. P. F. W. Henning. 169,939, June 30.

Signal or similar article, Illuminable traffic. J. A. O'Neill. 169,945, June 30.

Stocking. H. M. Suess. 169,950, June 30.

Switch, Thermostatic fire alarm. J. H. Derby. 169,935, June 30.

Switch, Thermostatic fire alarm. C. W. Mitchell and S. S. Aidlin. 169,944, June 30.

Table-chair unit or the like, Combination. D. Chapman and R. G. Reineman. 169,932, June 30.

Table, desk, and bookrack, Combination drafting. J. M. Jacobson, I. R. Barr, and E. J. Tousignan. 169,940, June 30.

Table or the like. D. Chapman and R. G. Reineman. 169,933, June 30.

Toy, Animal figure. N. I. Broyles. 169,927, June 30.

Tray, Tableware. L. Thompson. 169,952, June 30.

Vehicle. P. G. Wright. 169,955, June 30.

Wheel cover. F. P. Piotkin. 169,946, June 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive articles and making the same, Reinforced. O. S. Buckner. 2,643,945, June 30.
Absorber for use in treating gases. L. R. Cartier. 2,643,525, June 30.
Accelerometer. J. Clark. 2,643,869, June 30.
Accelerometer, Integrating. J. H. Andersen, Jr. 2,643,870, June 30.
Acoustic sleep-inducing apparatus. C. Beazley. 2,644,153, June 30.
Acoustical apparatus. P. T. Russell. 2,644,123, June 30.
Addressing machine, Bed and platen. R. L. Kerr. 2,643,606, June 30.
Adjustable clothes hanger. D. A. Eberhardt. 2,643,802, June 30.
Adjustable stroke lubricant dispensing valve. F. C. Paradise. 2,643,678, June 30.
Aerodynamic lift-producing device. B. Thwaites. 2,643,832, June 30.
Air-depolarized primary cell. L. S. Dunham. 2,644,025, June 30.
Air gap construction. A. A. Olsen and W. F. Skeata. 2,644,110, June 30.
Alignment target for testing eyes. J. M. Richards. 2,643,575, June 30.
Alkaline hydrolysis of hexachlorobenxene. P. D. Bartlett. 2,644,015, June 30.
Alkaline storage battery with negative iron electrode. J. D. Moulton, E. F. Schweitzer, and T. R. Briggs. 2,644,022, June 30.
Alkoxyalkyl esters of bis(4-carboxyphenyl) sulfone and cellulose esters plasticized therewith. J. R. Caldwell. 2,643,954, June 30.
Aluminum oxide, Making. R. A. Halversen. 2,643,935, June 30.
Aminoplasts modified with titanium polymers. T. Boyd, 2,643,984, June 30.
Amplifier, Logarithmic-mode separately quenched superregenerative. D. Richman. 2,644,081, June 30.
Amplifier, Self-quench superregenerative. D. Richman. 2,644,080, June 30.
Anchor. H. H. Buck. 2,643,630, June 30.
Anchor. R. S. Danforth. 2,643,631, June 30.
Anchor, Boat. F. W. Huck. 2,643,629, June 30.
Anchor, Hanging object. G. R. Lanman. 2,643,840, June 30.
Anchor, Lading strap. C. R. Jones. 2,643,018, June 30.
Anode assembly for primary galvanic cell. E. A. Schumacher and G. W. Heise. 2,644,024, June 30.
Antenna. J. R. Risser. 2,644,092, June 30.
Antenna, High-frequency. M. P. Middlemark. 2,644,091, June 30.
Antenna, Recessed slot. A. Dorne. 2,644,090, June 30.
Antenna system. W. R. Bliss. 2,644,089, June 30.
Antenna system, Directive. S. R. Thrift. 2,644,158, June 30.
Antibiotic solutions, Stable. M. D. Bray. 2,643,998, June 30.
Antifreeze tester. R. B. Rudy. 2,643,540, June 30.
Antiskid or traction device. A. C. Shill. 2,643,697, June 30.
Apparatus for casting ribbons of gelatin and the like. R. E. Moule. 2,643,416, June 30.
Apparatus for charging batteries. L. A. Mediar. 2,644,125, June 30.
Apparatus for computing correlation functions. Y. W. Lee, J. B. Wiesner, and T. P. Cheatham, Jr. 2,643,819, June 30.
Apparatus for crystallizing chemical salts. E. W. Douglass. 2,643,941, June 30.
Apparatus for cutting and impressing substances. C. and H. H. Doering and B. J. Skoglund. 2,643,495, June 30.
Apparatus for cutting sheet material. W. S. Miles. 2,643,720, June 30.
Apparatus for cutting wire and butt welding the same to an element. A. F. Pityo. 2,644,069, June 30.
Apparatus for detecting checks in the rim or finish portions of glass containers. T. C. Baker. 2,643,767, June 30.
Apparatus for determining the consistency of concrete mix. G. W. Cronk. 2,643,542, June 30.
Apparatus for dispensing carbonated beverages. P. Kollsman. 2,643,791, June 30.
Apparatus for dispensing carbonated beverages. P. Kollsman. 2,643,866, June 30.
Apparatus for distributing fertilizer or the like. A. W. Gustafson. 2,643,796, June 30.
Apparatus for forming a ribbon of glass. C. A. English. 2,643,486, June 30.
Apparatus for handling glassware. G. E. Rowe. 2,643,780, June 30.
Apparatus for making screw fasteners. L. J. Lovisek. 2,643,401, June 30.
Apparatus for measuring the hardness of materials. A. R. More. 2,643,545, June 30.
Apparatus for mounting inserts in cards. L. Baker. 2,643,786, June 30.
Apparatus for operating rotary valves. A. D. MacLean. 2,643,677, June 30.
Apparatus for separating particles from gases. F. Bowers and R. S. Brookman. 2,643,737, June 30.
Apparatus for use in the delivery of liquids from containers. B. J. Todd, R. E. Turner, and R. E. Broberg. 2,643,800, June 30.
Apparatus for using waste heat from heat engines for evaporation of water. A. M. Impagliazzo. 2,643,974, June 30.
Arm for recording and reproducing apparatus. U. L. di Ghilini. 2,643,886, June 30.
Apparatus for wire springs. S. G. Blumenaaadt. 2,643,758, June 30.
Arrangement in the distant control of typewriters. S. E. Stalbecker and S. B. Tibbling. 2,644,033, June 30.
Artificial eye. R. E. Busch. 2,643,392, June 30.
Artificial stone wall facing. F. Bouch. 2,643,539, June 30.
Artificial teeth. M. Budish. 2,643,455, June 30.
Attachment for velocipedes. E. J. Tasset. 2,643,783, June 30.
Automatic drying control system. R. E. Hadady. 2,643,464, June 30.
Automatic frequency control. B. A. Trevor. 2,644,035, June 30.
Automatic frequency control for receiver-transmitter. C. E. Sharp. 2,644,077, June 30.
Automatic gain control system. J. Avins. 2,644,082, June 30.
Automatic means for making special cardboard containers. L. D. Overland and J. W. Levine. 2,643,591, June 30.
Automatic safety switch. R. N. Maloof. 2,644,051, June 30.
Automobile brake shoe lining protector. J. M. Wagner. 2,643,450, June 30.
Automobile door safety lock. C. W. Hummer. 2,643,905, June 30.
Automobile passing signal. M. Noteox. 2,644,148, June 30.
Automobile roof construction. G. A. Lyon. 2,643,913, June 30.
Automobile transmission handling jack. V. L. Hamlin. 2,643,779, June 30.
Axle stabilizer system for paralleling natural steering forces, Swingable. A. C. Stover. 2,643,895, June 30.
Baby carriage, Convertible folding. W. C. Troendle. 2,643,803, June 30.
Bag filling tube and associated bag top gripping apparatus. N. A. Scranton and M. A. White. 2,643,804, June 30.
Balance assembly gauge. T. Garon. 2,643,462, June 30.
Balancing device for washing machines. M. L. Neher. 2,643,536, June 30.
Battery testing method. S. L. Christie and F. C. Marshall. 2,644,132, June 30.
Batts of silica fibers, Producing. L. Parker. 2,643,487, June 30.
Bayonet union for camera objective parts. H. Wehrenfennig. 2,643,581, June 30.
Bearing: *See*—
Turret roller bearing.
Bedstead. S. J. Post. 2,643,390, June 30.
Belt tightener. S. D. Russell. 2,643,551, June 30.
Bib apron and fasteners therefor. H. M. Thompson. 2,643,384, June 30.
Blanket and harness, Baby. H. D. Routman. 2,643,398, June 30.
Blasting machine. R. A. Schmitt, J. P. Swed, and C. P. Williams. 2,644,117, June 30.
Blind landing system. R. A. Emmett, Jr. 2,644,155, June 30.
Blowpipe. E. Meincke and H. T. Smith. 2,643,622, June 30.
Boiler with combustion preheater, Horizontal flue. T. Kleinen. 2,643,645, June 30.
Bolt, Masonry anchor. C. F. Johnson. 2,643,373, June 30.

Borax solutions and methods and compositions for producing same, Supersaturated. G. A. Connell. 2,643,947, June 30.
Boring bar pilot support. E. Sperisen. 2,643,554, June 30.
Boring tool. O. R. Briney, Jr. 2,643,556, June 30.
Bottle, Vacuum nursing. L. W. Rust, Sr. 2,643,785, June 30.
Box: *See*—
Chick box. Multifrequency T-R box.
Box assembling machine. O. H. Williamson. 2,643,378, June 30.
Box construction. F. Lange. 2,643,812, June 30.
Bracket: *See*—
Curtain rod bracket.
Bracket coupling for knockdown table-type furniture. C. P. Molin. 2,643,927, June 30.
Brake actuater, Vacuum operated. W. H. Righter. 2,643,746, June 30.
Brake control apparatus, Vehicle. W. H. Righter. 2,643,518, June 30.
Brake drums, Making composite. P. E. Baker. 2,643,445, June 30.
Brake plate and cylinder assembly. W. M. Venner and P. L. Bowser, Jr. 2,643,742, June 30.
Bread cooling and conditioning system. R. H. Borgess. 2,643,523, June 30.
Broach. E. J. and E. J. Lapointe. 2,643,443, June 30.
Broaching machine. E. J. and F. J. Lapointe. 2,643,585, June 30.
Brush, Portable rotary fountain. W. G. Cunningham. 2,643,406, June 30.
Buckle and parts thereof, Covered. H. Koehl and H. A. Prym. 2,643,430, June 30.
Bulldozer. J. W. Merz. 2,643,472, June 30.
Bung wrench. A. Dos Santos and W. K. Mossman. 2,643,566, June 30.
Bung construction. M. J. Quillinan. 2,643,790, June 30.
Burner: *See*—
Fuel burner.
Cabinet: *See*—
High fidelity loud-speaker cabinet.
Cage for side delivery rakes. W. A. Harper and E. S. Minton. 2,643,505, June 30.
Cage structure for tubular gauges, Protective. F. Boehm. 2,643,546, June 30.
Calculator, Pocket. H. Storbakken. 2,643,824, June 30.
Cam controlled device. J. L. Harris. 2,644,119, June 30.
Can cap with receptacle. L. R. Theobald, Sr. 2,643,789, June 30.
Can spout with punch and holddown latch. J. H. McIlroy and W. N. Lampe. 2,643,793, June 30.
Cap pistol, Continuous shooting. J. D. Kilgore. 2,643,476, June 30.
Capacitor. E. M. Boardman and M. C. Wooley. 2,644,122, June 30.
Capping head. J. Müller-Strobel. 2,643,805, June 30.
Carburetors for internal-combustion engines. C. R. B. Smith and F. H. T. Ixon. 2,643,805, June 30.
Carburetor, Multifuel. A. J. Meyer and R. E. Davis. 2,643,847, June 30.
Carpet rug binder. T. Jaasund. 2,643,963, June 30.
Carrier or driving means for workpieces in lathes and the like. S. G. Howard. 2,643,572, June 30.
Carton. O. L. Vines. 2,643,813, June 30.
Carton, Display. H. V. Bolding. 2,643,811, June 30.
Carton for round-ended articles. H. Bradley. 2,643,814, June 30.
Carton forming machine. G. Geffroy. 2,643,592, June 30.
Carton opening, filling, and closing mechanism. R. O. Woelfer. 2,643,497. June 30.
Carton, Sanitary milk. O. Komeo. 2,643,815, June 30.
Cartons and carton blanks, Making. A. J. Weiss. 2,643,589, June 30.
Cellulose xanthogenate compositions, Production of. N. Drisch. 2,643,999, June 30.
Centrifuging masseculte. S. T. Hoyt. 2,643,960, June 30.
Ceramic parts, Making. H. Scharf. 2,643,434, June 30.
Cerium esterification catalyst. L. A. Auspos and J. B. Dempster. 2,643,089, June 30.
Chair: *See*—
Self-propelled wheel chair.
Chair with foot supporting stirrups, Medical practice. N. E. Lauterbach. 2,643,704, June 30.
Chick box. H. P. Fleming. 2,643,810, June 30.
Chlorination of ethane. J. B. Furr and C. M. Neher. 2,644,016, June 30.
Circuit: *See*—
Color television rotating filter drive circuit.
Frequency stabilizing circuit.
Instantaneous automatic gain control circuit.
Moving object indication receiver circuit.
Range selector circuit.
Television circuit.
Circuit arrangement for conference call installations. H. R. Rensch. 2,644,039, June 30.
Circuit breaker operating mechanism, High-speed. H. J. Lingal and J. D. Findley, Jr. 2,644,053, June 30.
Circuit for adding binary numbers. F. C. Williams, A. A. Robinson, and T. Kilburn. 2,643,820, June 30.
Circuit for electric discharge apparatus. A. Claude. 2,644,108, June 30.
Circuit for fluorescent lamps, Preheat neutralizing. R. L. Keiffer and E. Lemmers. 2,644,107, June 30.
Circuit interrupter. R. E. Frink and E. H. Fischer. 2,644,048, June 30.
Circuit interrupter, Reclosing. D. J. Piccone. 2,644,046, June 30.
Clamp: *See*—
Electric terminal clamp.
Clamp for guy wires and the like. K. C. Jenne. 2,643,423, June 30.
Clamp for resilient tubing and the like, Wedge-actuated. J. Hoffmann. 2,643,848, June 30.
Clasp for buttons. T. F. Detwiler. 2,643,426, June 30.
Cleaning and drying apparatus. W. C. Douglass. 2,643,465, June 30.
Cleaning apparatus, Window. L. Romano. 2,643,412, June 30.
Cleaning cupreous articles. C. J. Snyder and W. G. MacLelland. 2,643,961, June 30.
Cleaning device, Jewelry. T. J. Shanahan, Jr. 2,643,661, June 30.
Clip: *See*—
Switch wafer mounting Wiper blade clip.
clip.
Clock. C. H. H. Rodanet. 2,643,506, June 30.
Closure remover with piercing prong, Pry type. G. L. Brown. 2,643,560, June 30.
Clutch: *See*—
Safety drive clutch. Spring type clutch.
Slipping clutch.
Coating applying machine, Centrifugal. A. Bauer. 2,643,636, June 30.
Coating method and apparatus for luminescent tubes. A. G. Kuebler and J. B. Hollopetre. 2,643,936, June 30.
Coin container. B. L. Neilsen. 2,643,762, June 30.
Collapsible container. M. G. Burrows. 2,643,788, June 30.
Collar stiffener. J. A. Armstrong. 2,643,387, June 30.
Color radiography. B. M. Fine. 2,644,096, June 30.
Color television rotating filter drive circuit. R. A. Maher, D. S. Oliver, and F. L. Wedig, Jr. 2,644,032, June 30.
Combination HF treating catalytic cracking process. A. P. Lien and E. L. Evering. 2,643,071, June 30.
Combination knee and ankle joint. R. W. McKendrick. 2,643,391, June 30.
Combination water inlet and soap dispenser for washing machines. T. T. Woodson. 2,643,537, June 30.
Comparator, Three-dimensional map model accuracy. M. Merriam. 2,643,576, June 30.
Compound boring tool. J. J. O'Brien. 2,643,692, June 30.
Compressor. V. S. Makaroff and A. E. Jackson. 2,643,817, June 30.
Compressor clip for hydraulic valve tappets. T. H. Wright. 2,643,447, June 30.
Concentrate of tyrothricin and its therapeutically active components. J. Pfannmuller. 2,643,967, June 30.
Connecting means for tubular sections. H. M. Manoogian. 2,643,901, June 30.
Connector: *See*—
Wiper blade connector.
Connector for resistance elements on glass plates, Electrical. T. W. Glynn. 2,644,066, June 30.
Connector having two-point support, Detachable. H. P. Dupre. 2,644,140, June 30.
Container: *See*—
Coin container. Collapsible container.
Container and heating means therefor, Food. J. Miron. 2,643,650, June 30.
Container filling machine. J. Gialanella. 2,643,807, June 30.
Container-filling machine, Automatic. A. C. Milne. 2,643,806, June 30.
Container for electrical connectors, Lockable. B. W. Rockman. 2,643,787, June 30.
Container for holding and dispersing incendiary articles which contain phosphorous. M. E. Barker. 2,643,928, June 30.
Container for preserving farm crops, Pressure protected silolike. W. G. Martin. 2,643,602, June 30.
Container having a movable bottom. J. P. Bunce. 2,643,662, June 30.
Continuous adsorption-desorption process. J. A. Weedman. 2,643,972, June 30.
Continuous adsorption process. J. I. Harper. 2,644,018, June 30.
Continuous esterification process. W. E. Cash and W. H. Gell. 2,644,009, June 30.
Continuous process for copolymerizing styrene and isobutylene. B. R. Tegge. 2,643,993, June 30.
Continuous process for the alkaline alcoholysis of polyvinyl esters. L. M. Germain. 2,643,994, June 30.
Control cam and apparatus for positioning the same. F. H. Owens. 2,643,552, June 30.
Control mechanism for relief valves. J. R. Curran. 2,643,670, June 30.
Control system for folding machines. E. H. Spreckelmeier. 2,643,879, June 30.
Controller for loom dobby fingers. R. G. Turner. 2,643,682, June 30.
Conveyer, Endless. D. C. Bortner. 2,643,760, June 30
Conveyer for corn harvesters. M. L. Swanson. 2,643,759, June 30.
Conveyer mechanism with article turning units. J. E. Socke. 2,643,778, June 30.

Cooking machine. M. S. Ballnteen. 2,643,603, June 30.
Corn snapping and husking rolls. R. C. Ferguson. 2,643,657, June 30.
Corrosion resistant valve. R. P. Keammerer. 2,643,679, June 30.
Corrugated screen gas impingement filter. R. F. Logsdon. 2,643,735, June 30.
Counter, Electronic. J. R. Desch. 2,644,110–12, June 30.
Coupling: *See*—
Fused, polarized, blade-type electrical coupling. Spring clutch type coupling.
Power transmission coupling. Universal coupling.
Coupling device, Magnetic fluid. P. H. White, Jr. 2,643,748, June 30.
Cover: *See*—
Recessed book cover.
Cultivating and tilling machine. W. Wharton. 2,643,599, June 30.
Cupola stack or tower. C. B. Schneible and A. S. Lundy. 2,643,867, June 30.
Cured shaped products, Preparing. C. Dangelmajer. 2,643,983, June 30.
Curing of rubber cements. T. C. Morris and E. C. Johnson. 2,64,019, June 30.
Current indicator. N. Schnoll. 2,644,135, June 30.
Curtain rod bracket. I. Lundstrom. 2,643,846, June 30.
Cutting die mounting and ejector. J. E. McClellan. 2,643,715, June 30.
Cutting teeth in pinking shears. A. and R. J. Wertepny. 2,643,584, June 30.
Cutting the wrapper from rolls of newsprint and the like, Means for. W. L. Oelkrue. 2,643,716, June 30.
Cyclic switching apparatus. R. Mercer. 2,644,041, June 30.
Deflecting tool. G. E. Brown. 2,643,859, June 30.
Dehorning device. W. L. Kuhns. 2,643,454, June 30.
Delivery control mechanism for conveyers. H. J. Ferguson. 2,643,751, June 30.
Depth control means for scarifiers. C. B. Covington. 2,643,868, June 30.
Device for attaching hubcaps. P. D. Becker. 2,643,918, June 30.
Device for computation of roots of polynomials. L. C. Frager. 2,643,821, June 30.
Device for corrugating wire. D. E. Crooker. 2,643,688, June 30.
Device for teaching arithmetic. L. D. Goodwin. 2,643,467, June 30.
Device for washing articles such as drinking glasses. N. E. Auten. 2,643,659, June 30.
Diaper. T. J. Mabon. 2,643,969, June 30.
Dielectric heating with rotatory work-receiving element. P. D. Newhouse. 2,644,073, June 30.
Discriminator improvement to reduce audio-frequency noise. J. C. O'Brien. 2,644,084, June 30.
Dispenser: *See*—
Soap dispenser.
Dispenser. V. J. Aruth. 2,644,072, June 30.
Dispenser for collapsible tubes. R. H. Teal. 2,643,795, June 30.
Dispensing and distributing device for finely divided materials. W. H. Neff. 2,643,798, June 30.
Dispensing device. L. M. Keefe. 2,643,929, June 30.
Dispensing device, Liquid. E. A. Daley, H. J. Mueller, and B. F. Bracy. 2,643,792, June 30.
Dispensing magazine, Blade. V. R. Bailey. 2,643,763, June 30.
Display means. L. D. Grenot. 2,643,474, June 30.
Disproportionation of diethylbenzene. D. A. McCaulay and A. P. Lien. 2,644,017, June 30.
Door assembly and holder mechanism. A. Schwartz. 2,643,420, June 30.
Door opener and closer, Car. G. W. Merritt. 2,643,855, June 30.
Door structure, Overhead. C. R. Wolf. 2,643,714, June 30.
Dough former. T. E. Belshaw. 2,643,621, June 30.
Drafting implement. E. E. Kellems. 2,643,458, June 30.
Drill: *See*—
Rock drill.
Drilling mechanism, Rotary. C. W. Koch. 2,643,860, June 30.
Dry mounting press. T. H. Krueger. 2,643,699, June 30.
Dry mounting press with timing signals. T. H. Krueger. 2,644,151, June 30.
Duplex valve. P. C. Symmons. 2,643,675, June 30.
Dust collector. N. C. Shellman. 2,643,733, June 30.
Edger attachment for lawn mowers, Demountable. J. D. Noyes. 2,643,503, June 30.
Elbow, Flexible. H. Kaiser. 2,643,680, June 30.
Electric conductor, Natural silk insulated. W. Travis. 2,644,029, June 30.
Electric control system for expansible motor operated boom. C. A. Harsch. 2,643,515, June 30.
Electric dry shaver. L. C. Carissimi. 2,643,453, June 30.
Electric switch. V. W. Leonard. 2,644,047, June 30.
Electric terminal clamp. C. A. Danberg. 2,644,142, June 30.
Electric wave distorting network. R. Beaufoy. 2,644,037, June 30.
Electrical assembly. V. R. Herterick. 2,644,045, June 30.
Electrical receptacle having screw-type socket and center contact guide. R. P. Ballou. 2,644,143, June 30.
Electronic impulse generator. J. R. Desch. 2,644,087, June 30.
Elevator system having speed regulation and position control. W. H. Esselman. 2,643,741, June 30.
Elimination of faller bar creep in pin drafters. J. R. Longstreet and R. Jacques. 2,643,419, June 30.
Emergency landing pitch control means on a helicopter rotor. A. Muther. 2,643,726, June 30.
Empennage control structure. E. Ambroise. 2,643,833, June 30.
Emulsion polymerization process. H. F. Park. 2,643,995, June 30.
Enclosing articles in tubular wrappers. W. S. Cloud. 2,643,496, June 30.
Engine: *See*—
Internal-combustion engine.
Engine fuel and speed control, Internal-combustion. L. Lee, II. 2,643,513, June 30.
Engine in which a plurality of closed thermodynamic cycles are performed simultaneously and which includes a compressor means, Hot-gas reciprocating. A. A. Dros. 2,643,507, June 30.
Engine starter drive. D. L. Miller. 2,643,548, June 30.
Engine starter gearing. D. L. Miller. 2,644,098, June 30.
Engine starter having combustion chamber supplied with fuel and combustion supporting medium for constant ratio by weight. A. T. Briggs. 2,643,511, June 30.
Enuresis bed pad. H. W. Seiger. 2,644,050, June 30.
Envelope machine. E. C. Sauerman. 2,643,594, June 30.
Essence D'Orient or pearl tincture, Preparing. F. Bultelaar. 2,644,001, June 30.
Exhaust silencer, Retroverted passage type. A. Beattie. 2,643,730, June 30.
Explosion-resistant motor. L. R. Ludwig, T. C. Fockler, W. H. Formhals, and H. T. Walton. 2,644,099, June 30.
Extractor for removing soluble constituents in chemical analysis. R. E. Stevens. 2,643,940, June 30.
Extrusion device. L. C. Miller. 2,643,620, June 30.
Eye protective device. C. G. Abbott. 2,643,381, June 30.
Eyeshield. L. E. McLeod. 2,643,382, June 30.
Fabric: *See*—
Woven elastic fabric.
Fabric retaining device. W. W. Haefliger. 2,643,399, June 30.
Fabricated kelly. T. B. Losey. 2,643,861, June 30.
Fastener: *See*—
Separable fastener. Slide fastener.
Fastening device. R. E. Scott. 2,643,433, June 30.
Fastening device, Button. D. M. Kenyon. 2,643,427, June 30.
Fastening device for blankets. R. Ramsland. 2,643,390, June 30.
Feed-water control system for steam power plants. W. Powell, Jr. 2,643,520, June 30.
Feeder: *See*—
Poultry feeder.
Feeder device for egg cleaning machines. D. M. Smith. 2,643,732, June 30.
Feeding device, Sewing machine. J. E. Sanford. 2,643,624, June 30.
Fence guide for mowers. L. C. Woods. 2,643,504, June 30.
Fiber-forming polymers. E. W. Gluesenkamp and A. B. Craig. 2,643,992, June 30.
Fiber-forming polymers rendered dye-receptive by reaction with tris (dimethylamido) phosphite. G. E. Ham and A. B. Craig. 2,643,986, June 30.
Filament tensioner. J. O. and S. H. Reece. 2,643,857, June 30.
Film feeding and position indicating mechanism for photographic cameras. W. Knauf. 2,643,826, June 30.
Filter: *See*—
Corrugated screen gas impingement filter.
Filter. M. J. Martin. 2,643,772, June 30.
Fire charge composition. J. H. McLain and T. A. Ruble. 2,643,946, June 30.
Fish catching apparatus. G. H. Silva. 2,643,477, June 30.
Fish classifying means. L. A. Ederer. 2,643,481, June 30.
Fish fillet blocks, Preparing. H. E. Crowther and L. T. Hopkinson. 2,643,952, June 30.
Fishing line agitator. H. H. Paulsen. 2,643,478, June 30.
Fishing line washing and drying reel. W. M. Buchholz. 2,643,660, June 30.
Fishing lures, Making. D. D. Auldridge. 2,643,418, June 30.
Fishing reel. W. E. Stanton. 2,643,829, June 30.
Fixture for spherical members. W. T. Grove. 2,643,557, June 30.
Flame spraying polyethylene and other plastics, Method of and apparatus for. J. B. Powers and R. E. Bludeau. 2,643,955, June 30.
Flotation of mica with sulfonates. E. W. Gleseke. 2,643,770, June 30.
Flow dividing valve. W. P. Willett. 2,643,664, June 30.
Fluid control system. H. Gold and D. M. Straight. 2,643,663, June 30.
Fluid-operated pump with single-acting direct-connected booster pump. C. J. Coberly. 2,643,612, June 30.
Fluid pressure actuator and locking means therefor. H. M. Geyer. 2,643,642, June 30.
Fluid pressure system. M. G. Carlson. 2,643,516, June 30.

Fluid system for hydraulic torque converters. W. P. Michell. 2,643,517, June 30.
Folding machine for continuous strips of stationery. J. Lach. 2,643,878, June 30.
Food mixer. H. A. Graham and I. Jepson. 2,643,864, June 30.
Footwear having a flared upper, Rubber. E. Gottschalk. 2,643,468, June 30.
Fork construction for industrial trucks. G. L. Turner and R. Lapsley. 2,643,784, June 30.
Forming embossed and decorated panels. K. F. Smith. 2,643,417, June 30.
Fountain marker. H. W. Hempel and W. C. Marsh. 2,643,409, June 30.
4-amino-2-hydroxybenzoic acid, Producing. R. P. Parker and J. M. Smith, Jr. 2,644,011, June 30.
4-substituted-vinylcycloherenes and the production thereof. J. Korman, W. B. Reid, Jr., A. H. Nathan, and J. A. Hogg. 2,644,012, June 30.
Frame: *See*—
Shoe machine frame.
Frame for chair-desks, Side. S. C. Willis and L. W. Brulin. 2,643,703, June 30.
Freezing plant. E. Wilbushewich. 2,643,524, June 30.
Frequency control system. D. S. Bond. 2,644,138, June 30.
Frequency stabilizing circuit. A. B. Jacobsen. 2,644,093, June 30.
Front stop assembly. A. J. Albrecht. 2,643,881, June 30.
Fruit gatherer. E. R. Doak. 2,643,754, June 30.
Fuel burner. G. A. White and L. W. Williamson. 2,643,916, June 30.
Fuel composition containing N,N'-dimethyl phenylene diamine to prevent knocking. M. R. Barusch. 2,643,942, June 30.
Fuel system for gas-turbine engines with means to maintain the fuel supply within desired limits during transient operating conditions. A. Jubb. 2,643,514, June 30.
Furniture construction, Tubular. W. N. Brown. 2,643,706–7, June 30.
Fuse, Automatic mercury switch. I. Shamah. 2,644,054, June 30.
Fuse cutout. J. M. Wallace and E. F. Beach. 2,644,055, June 30.
Fuse, Electric. B. W. Jones. 2,644,059, June 30.
Fuse link, Renewable. F. G. von Hoorn. 2,644,060, June 30.
Fused, polarized, blade-type electrical coupling. C. R. Curtis. 2,644,056, June 30.
Fused, polarized, male to female blade-type adapter. C. R. Curtis. 2,644,057, June 30.
Game instruction apparatus. R. S. Bucher. 2,643,466, June 30.
Gap filler used for irrigation purposes. L. G. Rinderknecht. 2,643,600, June 30.
Garment. E. Engel. 2,643,385, June 30.
Gas pilot, Electrically ignited. F. J. Haverland. 2,643,709, June 30.
Gas turbine power plant with controlled rate of rotation, E. A. Stalker. 2,643,512, June 30.
Gauge: *See*—
Balance assembly gauge. Headwear sizing gauge.
Gear unit with removable chair, Running. J. Berger. 2,643,702, June 30.
Generator: *See*—
Electronic impulse generator. Pulse generator.
Generator for stoves and the like, Gas. H. De Andrade Só.
2,643,943, June 30.
Girdle, Lady's. E. Brzozowski. 2,643,383, June 30.
Glass beads, Making. P. Lebrun. 2,643,488, June 30.
Globe and manufacture, Flexible inflatable and deflatable. L. S. Carroll. 2,643,598, June 30.
Golf tee, Air-controlled solenoid. R. A. Hogeberg. 2,643,883, June 30.
Governor. W. Laubach. 2,643,672, June 30.
Grading appratus, Article. H. D. Roop. 2,644,097, June 30.
Graphitization of carbon articles. V. C. Hamister. 2,644,020, June 30.
Grinding machine. K. C. Burroughs. 2,643,491, June 30.
Grinding machine and method. K. C. Burroughs. 2,643,492, June 30.
Grinding wheel. J. R. Erickson. 2,643,494, June 30.
Gyroscope having erecting means to compensate for acceleration errors. H. Konet. 2,643,547, June 30.
Hair ringlet holder. A. C. Koke. 2,643,658, June 30.
Hammer, Adjustable leverage claw. R. W. Johnson. 2,643,854, June 30.
Handling of rod bundles or similar annuli. R. W. Young and R. Kinnicutt, Jr. 2,643,756, June 30.
Hanger: *See*—
Adjustable clothes hanger.
Hardness tester. M. A. Chester. 2,643,544, June 30.
Hardness testing indicator. H. W. Dietert, W. P. Adair, and E. C. Zirzow. 2,643,460, June 30.
Hat holder and hanger support. D. Nicholson. 2,643,773, June 30.
Headwear sizing gauge. A. Wiebe. 2,643,461, June 30.
Heat-controlled liquid switch. H. Loosli. 2,644,058, June 30.
Heat exchanger and producing same, Recuperative. H. F. Buschow. 2,643,863, June 30.
Hermetically sealed lever operated switch. W. L. Dietrich. 2,644,061, June 30.
High fidelity loud-speaker cabinet. W. R. Anthony. 2,643,728, June 30.
High-voltage arrester. R. G. Sands. 2,644,115, June 30.
Hoist. C. M. Sales. 2,643,856, June 30.
Holder: *See*—
Hair ringlet holder. Sack holder.
Retarding thrust file holder. Shoulder strap holder.
Holder for rubber type. I. S. Gottscho. 2,643,609, June 30.
Holder for slippers and the like articles, Bed supported. S. Ehrenreich and S. Stettner. 2,643,397, June 30.
Hole detector for circular knitting machines of the rib type. M. Antonevich. 2,643,534, June 30.
Hook: *See*—
Trap hook.
Hook for attachment to transmission line poles or the like, Guy. K. C. Jenne. 2,643,428, June 30.
Horizontal induction heating scanner machine. W. L. Corteggiano and T. P. Kinn. 2,644,074, June 30.
Horn or signal, Pneumatic. L. Abbondandolo. 2,643,633, June 30.
Hose mitten. H. S. Curtis. 2,643,388, June 30.
Hydraulic pump. R. Westbury, P. E. Bray, and E. W. Packenham. 2,643,613, June 30.
Hypodermic and other syringes or drenchers. A. C. McKay. 2,643,655, June 30.
Ice-cream blocks, Production of. R. Turner. 2,643,526, June 30.
Icing machine. H. O. McLain. 2,643,522, June 30.
Improving the adhesion of organopolysiloxanes to solid surfaces. R. Smith-Johannsen. 2,643,964, June 30.
Independent suspension for motor vehicle road wheels. A. J. Hirst. 2,643,877, June 30.
Indicator: *See*—
Current indicator. Voltage indicator.
Hardness testing indirator.
Induction heating machine with controls. W. L. Corteggiano, M. P. Vore, and J. M. Edwards. 2,644,075, June 30.
Inert gas blanketed welding rod feed. H. T. Herbst. 2,644,070, June 30.
Inhibiting corrosion of metals. W. B. Hughes. 2,643,977–8, June 30.
Injector and blade disposal device for razors. J. C. Fenelly. 2,643,452, June 30.
Installation for use with scrap briquetting presses. W. Lindemann and F. van Endert. 2,643,558, June 30.
Instantaneous automatic gain control circuit. P. R. Bell, Jr. 2,644,083, June 30.
Instrument, Dental hand. J. K. and R. Maurer. 2,643,456, June 30.
Insulating structure, Anode. W. W. Watrous, Jr. 2,644,101, June 30.
Internal-combustion engine. J. L. Hittell. 2,644,021, June 30.
Internal-combustion engine. E. C. Kiekbaefer. 2,643,510, June 30.
Interpolymers of selected 2-alkenyl 2-alkenoates or like esters with selected 2-alkenyl or like chlorides, ethers or esters with or without a different copolymerizable monoolefinic compound. P. O. Tawney. 2,643,991, June 30.
Inverter. E. Levy, Jr. 2,644,126, June 30.
Ironing machine. B. L. G. Newnham. 2,643,473, June 30.
Isolation and purification of streptomycin phosphate. D. L. Johnson. 2,643,997, June 30.
Jack: *See*—
Automobile transmission handling jack.
Joint: *See*—
Combination knee and ankle joint. Knuckle joint.
Joint for coaxial lines, Expansion. E. J. Bernet. 2,644,028, June 30.
Keyboard mechanism for teletypewriters. D. E. Branson. 2,644,038, June 30.
Knife, Microtome. G. W. Jacoby, Jr. 2,643,579, June 30.
Knitted articles, Producing full-fashioned. J. G. Sandri. 2,643,532, June 30.
Knob and shaft connection. E. Nathan. 2,643,903, June 30.
Knuckle joint. E. L. McBride. 2,643,900, June 30.
Label affixing machine. J. J. Gregory. 2,643,498, June 30.
Lamp mount and manufacture thereof, Incandescent. M. L. Stone. 2,644,102, June 30.
Latching and operating mechanism, Door. G. W. Way. 2,643,906, June 30.
Lathe attachment. J. Mazar. 2,643,717, June 30.
Lathe, Multiple station center drive crankshaft. H. J. Siekmann and W. R. Meyer. 2,643,570, June 30.
Laundry apparatus. F. W. Grantham. 2,643,463, June 30.
Lawn mower of the rotating cutting disk type, Power. C. H. Flanigan. 2,643,502, June 30.
Lead coating a ferrous article. R. A. Neish. 2,643,975, June 30.
Lens finishing machine. K. C. Burroughs. 2,643,490, June 30.
Light absorbent coating and coated article. E. G. B. Riley. 2,643,982, June 30.
Lighter, Cigarette. W. S. Nissly. 2,643,930, June 30.

Lighter, Cigarette. W. P. Strumbos. 2,643,535, June 30.
Lighting unit and manufacture, Sealed. R. K. Braunsdorff. 2,644,100, June 30.
Lightweight aggregate from molten slag, Production of. L. A. Edwards. 2,643,485, June 30.
Line-sectionalizer integrator. A. W. Edwards and J. M. Wallace. 2,644,114, June 30.
Linkage for lift trucks. C. S. Schroeder. 2,643,894, June 30.
Liquid feeding system for internal-combustion engines. W. C. Pierce. 2,643,648, June 30.
Liquid flow system and apparatus. A. U. Bryant. 2,643,670, June 30.
Liquid treatment device. E. Pick. 2,643,771, June 30.
Load weighing system for lift trucks and the like. W. M. Wise. 2,643,781, June 30.
Loader, Bale. C. Hansen. 2,643,604, June 30.
Loading mechanism for mortars. M. F. Healy. 2,643,582, June 30.
Lock: *See*—
Automobile door safety lock.
Lock nut with contractable core, Domed. O. R. Misch. 2,643,696, June 30.
Locking device, Coaxial dial. R. M. Sigmon, Jr. 2,643,632, June 30.
Log debarker, Hydraulic. A. G. Rockwood. 2,643,691, June 30.
Lubricant compositions, Demulsifiable. A. W. Lindert. 2,643,979, June 30.
Lubricator: *See*—
Railway journal lubricator.
Luminous body. W. V. Etzkorn. 2,644,113, June 30.
Lump breaker construction. P. A. Fasoli. 2,643,587, June 30.
Machine for applying decal films to base sheets. J. D. Klopfenstein. 2,643,475, June 30.
Machine for assembling paperboard partitions. H. Ahlmeyer and W. D. Sherman. 2,643,390, June 30.
Machine for code marking labels, wrappers, cartons, or the like. M. G. Sauven. 2,643,718, June 30.
Machine for compacting granular mass material. C. Jackson. 2,643,595, June 30.
Machine for cutting and finishing gears, etc., by form cutters. E. W. Miller. 2,643,583, June 30.
Machine for forming and threading bolts, screws, and the like. A. H. Billow. 2,643,402, June 30.
Machine for forming continuous wire coils. D. E. Crooker. 2,643,698, June 30.
Machine for inking the edges of shoe soles and heels. G. S. Shaak. 2,643,635, June 30.
Machine for making friction grip nuts. J. MacBlane and R. N. Paterson. 2,643,403, June 30.
Machine for stuffing olives. G. W. Ashlock, Jr. 2,643,694, June 30.
Machine tool. K. F. Gallimore. 2,643,441, June 30.
Machine tool centering device. E. P. Bullard, III. 2,643,571, June 30.
Magazine and feed means for stapling machines. L. H. Semler. 2,643,376, June 30.
Making adhesive from lignocellulose. W. Schoen. 2,643,953, June 30.
Making sponge rubber with the aid of amines. J. H. Kelly, Jr. 2,643,981, June 30.
Manufacturing cylindrical bodies, Method and apparatus for. G. G. Havens. 2,643,700, June 30.
Manufacturing electrical terminal connectors. I. F. Matthysse and C. V. Pellier. 2,643,446, June 30.
Measuring and controlling hydrate forming conditions, Means and method for. E. J. McCreary. 2,643,541, June 30.
Measuring device for pistons in depth engines. B. E. Beers and S. G. Snortland. 2,643,459, June 30.
Measuring device, Viscosity. G. Herzog. 2,643,543, June 30.
Mechanical shrink strut for aircraft landing gears. I. Watman. 2,643,834, June 30.
Mechanism and method for forming sleeved valve bags. E. E. Burroughs. 2,643,588, June 30.
Method and excitation chamber for spectroscopic analyses. F. Todd. 2,643,574, June 30.
Method and system for braking hot-gas piston engines and for utilizing heat generated thereby in operation thereof. W. J. van Heeckeren and P. H. Clay. 2,643,509, June 30.
Miniature bowling alley. J. C. Koci. 2,643,884, June 30.
Mirror support. L. G. McDevitt. 2,643,847, June 30.
Mixer: *See*—
Food mixer.
Mixtures of rubbery butadiene styrene copolymer with hard resinous saturated copolymer of styrene and another unsaturated compound, Preparation of. S. A. Harrison and W. E. Brown. 2,643,987, June 30.
Mop and extractor therefor. P. S. and T. S. Vosbikian. 2,643,407, June 30.
Motor: *See*—
Explosion-resistant motor.
Motor mount. W. Rivers. 2,643,837, June 30.
Motor with means for regulating the indicated power thereof, Hot-gas. P. H. Clay. 2,643,508, June 30.
Mounting: *See*—
Ophthalmic mounting.
Mounting device for wall openings in electric heating devices. A. P. Charbonneau. 2,644,071, June 30.
Mounting for sewing machine power units. A. M. Senweda. 2,643,838, June 30.
Mouth protector. J. F. Cathcart. 2,643,652, June 30.
Moving object indication receiver circuit. R. A. McConnell. 2,644,154, June 30.
Muffler assembly, Rotatably mounted. P. E. Schmid. 2,643,731, June 30.
Multifrequency T-R box. L. P. Hunter. 2,644,139, June 30.
Multilayer catalyst, Preparation of a. E. J. Houdry. 2,643,980, June 30.
Multiple extension drop-leaf table. E. Albano. 2,643,924, June 30.
Nailing mechanism for assembled crate heads. G. C. Paxton. 2,643,377, June 30.
Navigational aid device. D. Skalka. 2,643,457, June 30.
Necktie rack. E. W. Franklin. 2,643,775, June 30.
New chemicals and fungicidal compositions containing same. G. E. O'Brien, A. Bornmann, and A. E. Smith. 2,643,965, June 30.
New quinoxaline derivatives. J. K. Landquist. 2,644,000, June 30.
Nippie, Push. W. J. Dunn. 2,643,646, June 30.
Nitric oxide, Making. R. D. Pike. 2,643,936–7, June 30.
Nonbounce switch. W. A. Martin. 2,644,052, June 30.
Nozzle, Oil burner. B. Pieroni. 2,643,915, June 30.
Nozzle, Suction dredge. J. M. Ragsdale. 2,643,471, June 30.
Nursing unit assembling tool. T. R. Baxter. 2,643,449, June 30.
Nursing unit assembling tool. T. E. Piazze. 2,643,448, June 30.
Oil burner carburetion. M. Sherman. 2,643,708, June 30.
Oil well tool. J. Lynes. 2,643,723, June 30.
Oiler, Watch. H. R. Kollmeyer. 2,643,801, June 30.
Opener, Can. R. E. McLean. 2,643,451, June 30.
Ophthalmic mounting. F. I. Miner and F. W. Lindblom. 2,643,580, June 30.
Optical summation and decimal structures. P. H. Allen and B. J. Chromy. 2,643,822, June 30.
Organic arsenical compounds. E. Urbschat. 2,644,005, June 30.
Outdoor fixture for tubular lights. E. M. Caferro. 2,644,027, June 30.
Package adapter. E. W. Paeplow and M. Klacbif. 2,643,830, June 30.
Package of surgical articles in sterilizing liquid, Rectangular. C. T. Riall. 2,643,764, June 30.
Packer, Hydraulically indatable. J. Lynes, G. H. Allen, and J. D. Gardner. 2,643,722, June 30.
Pad: *See*—
Enuresis bed pad.
Parachute harness, Personnel. C. E. Carroll. 2,643,836, June 30.
Passageway enclosure for railway passenger cars. K. F Nystrom and L. L. Lentz. 2,643,617, June 30.
Pattern mechanism. E. St. Pierre. 2,643,533, June 30.
Pay station control trunking for mixed service telephone systems. C. E. Lomax. 2,644,040, June 30.
Perforating machine, Sausage. G. Bolton, 2,643,414, June 30.
Phase comparing system. K. M. Soukaras. 2,644,133, June 30.
Phenol production. R. H. Saunders. 2,644,014, June 30.
Phonograph tone arm. L. J. Andres. 2,643,887, June 30.
Pickup device, Audio. C. C. McCracken. 2,643,729, June 30.
Pill injector. J. Heidrich. 2,643,653, June 30.
Pliers for removing clips from coil spring assemblies and the like, Expanding jaw. G. W. Mount. 2,643,565, June 30.
Plow bottom parts, particularly moldboards, Making. W. E. Ruska. 2,643,438, June 30.
Plow bottom parts, particularly plowshares, Making. W. E. Ruska. 2,643,439, June 30.
Plow structure, Wing. G. L. Kaeser. 2,643,470, June 30.
Polishing and buffing wheel. H. Zimmerman. 2,643,493, June 30.
Polyacrylonitrile articles, Stabilized bleached. R. A. Scheiderbauer. 2,643,934, June 30.
Polyamine hydrochlorides and polyisocyanates, Preparation of. C. F. Irwin. 2,644,007, June 30.
Polychlorotrifluoroethylene resins, Heat-stabilized. A. T. Walter. 2,643,988, June 30.
Polyhydric alcohol ethers from hemiformals and carbonyl compounds, Producing. R. H. Barth. 2,644,013, June 30.
Polymers, Preparing. G. E. Ham. 2,643,990, June 30.
Poultry feeder. E. Lewis. 2,643,637, June 30.
Powder, Large grain smokeless. A. M. Ball. 2,643,611, June 30.
Power transmission coupling. R. J. Thomas. 2,643,529, June 30.
Power unit, Self-contained. J. P. Steibel. 2,643,555, June 30.
Precooling air in oxygen production. P. C. Keith. 2,643,527, June 30.

Preserving wood. R. M. Lindgren. 2,643,957, June 30.
Press: *See*—
Dry mounting press.
Press for securing wax comb foundations in honey frames. I. D. Johnston. 2,643,400, June 30.
Pressure actuated switch. G. E. Waters. 2,644,049, June 30.
Pressure contact. C. J. Adams. 2,644,145, June 30.
Pressure governed time valve. W. C. Way. 2,643,644, June 30.
Pressure jet apparatus. D. M. Paxton. 2,643,616, June 30.
Prevention of decomposition of chloroalkyl aryloxyalkyl sulfites. H. D. Glenn and L. Meuser. 2,644,008, June 30.
Printing equipment for guiding printing plates. W. T. Gollwitzer. 2,643,605, June 30.
Printing plate securing means. W. T. Gollwitzer. 2,643,608, June 30.
Producing a fertilizer from phosphate rock. M. Sourdet. 2,643,948, June 30.
Producing cushion in seams of containers. D. E. Wobbe. 2,643,627, June 30.
Producing fibers, Method and apparatus for. C. J. Stalego, 2,643,415, June 30.
Producing multiply metal-foil-cardboard material and producing articles formed of such material. F. P. Lenard and G. W. Methven. 2,643,503, June 30.
Production of iron and steel. N. F. Tisdale and N. F. Tisdale, Jr. 2,643,949, June 30.
Propeller blade and making same, Electrically welded hollow steel. W. C. Heath. 2,643,725, June 30.
Protective treatment of iron. J. Fischer. 2,643,959, June 30.
Protector: *See*—
Automobile brake shoe lining protector.
Mouth protector.
Pulse generating system, Square wave. G. C. Summers. 2,644,130, June 30.
Pulse generator. W. S. Douglas. 2,644,004, June 30.
Pump: *See*—
Hydraulic pump.
Pump. L. W. Lewis. 2,643,816, June 30.
Pump actuating system for rail and flange lubricators. G. F. Magnus. 2,643,738, June 30.
Pumn with center intake, Centrifugal. R. J. Murphy and E. H. Smith. 2,643,615, June 30.
Pumping unit, Motor-driven dual. F. A. Rosenkrans. 2,643,614, June 30.
Punch with sing extracting means. F. M. Arbuckle. 2,643,721, June 30.
Purification of spent sulfuric acid. S. P. Robinson. 2,643,938, June 30.
Pyrotechnic device. H. C. Clauser and R. S. Long. 2,643,610, June 30.
Quaternary ammonium compounds and their manufacture. H. Gysin and R. E. Hagenbach. 2,644,003, June 30.
Racing apparatus. W. C. Ford. 2,643,885, June 30.
Rack: *See*—
Necktie rack.
Rug sample display rack.
Rack for displaying articles of merchandise. H. J. Rubenstein. 2,643,776, June 30.
Radar power supply system. H. S. G. Cooper and H. L. Schultz. 2,644,088, June 30.
Radioactive lightning protector with accelerating elements. J. P. Grenier and P. E. E. Lescieux. 2,644,026, June 30.
Railway journal lubricator. J. J. Hennessy. 2,643,919, June 30.
Railway switch machine controller. C. L. Swanton. 2,644,120, June 30.
Range selector circuit. E. G. Schneider. 2,644,156, June 30.
Reach assembly for cycle saddles. H. E. Kalter. 2,643,701, June 30.
Reamer. C. Harden. 2,643,693, June 30.
Receiver for two-tone carrier systems. T. A. Jones. 2,644,036, June 30.
Recessed book cover. J. V. Cavalero. 2,643,899, June 30.
Recorder, Circle diagram. V. A. Kinickij. 2,643,933, June 30.
Recorder, Wind direction. A. F. S. Musante. 2,643,932, June 30.
Recovery of sulfur from sulfur-contaminated metallic catalysts. F. W. B. Porter and R. P. Northcott. 2,643,939, June 30.
Recovery of vitamin B_{12} with monohalophenols. J. R. D. McCormick and S. A. Muller. 2,643,968, June 30.
Reed for textile purposes and making same. M. M. Taylor. 2,643,684, June 30.
Reel: *See*—
Fishing line washing and fishing reel drying reel.
Refill unit for ball point pens. P. R. Kuhn. 2,643,639, June 30.
Refining of vegetable and animal oils. D. W. Dron and F. A. Lindsey, Jr. 2,644,004, June 30.
Regenerative steam power plant in which an extraction turbine supplies steam to desuperheaters which serve to heat feed water. R. C. Powell. 2,643,519, June 30.
Registration means for duplicating machines. C. A. Levin and O. L. Smith. 2,643,607, June 30.
Regulating system. S. L. Bradley. 2,644,127, June 30.
Regulator: *See*—
Voltage regulator.
Reinforced silica textile. L. Parker. 2,643,437, June 30.
Relay. J. O. Hruby, Jr. 2,644,118, June 30.
Relief device for lubricating systems. H. R. Tear. 2,643,739, June 30.
Remote control of typewriters. S. E. Stalbecker and S. B. Tibbling. 2,644,034, June 30.
Removing vulcanizing drum and pressure band from continuous vulcanizing machines. G. E. Apel and D. F. Collins. 2,643,444, June 30.
Repair head for beddies. W. H. Thorpe. 2,643,683, June 30.
Reservoir with applicator closure, Resilient. H. W. Decker. 2,643,408, June 30.
Retaining mechanism for sealed beam lamp type locomotive headlight assemblies. F. X. Keegan. 2,644,076, June 30.
Retarding thrust file holder. E. Tury. 2,643,442, June 30.
Reversible application of power to motor-operated valve. E. T. Dahl. 2,643,667, June 30.
Rice process. M. W. Alderman, W. F. Massmann, Jr., and E. W. Michael. 2,643,951, June 30.
Ring: *See*—
Ski pole ring.
Rock drill. M. C. Huffman. 2,643,641, June 30.
Rocker arm refacer. V. L. Helm. 2,643,489, June 30.
Rotor, Helicopter. I. I. Sikorsky. 2,643,724, June 30.
Rotor with cooling means, Turbo-machine. K. D. McMahan. 2,643,851, June 30.
Routing machine, Pocket. L. White. 2,643,690, June 30.
Rug sample display rack. O. W. Patterson and K. H. Bowen. 2,643,774, June 30.
Rule, Slide. M. J. Quillinan. 2,643,823, June 30.
Sack holder. J. D. Diserens. 2,643,842, June 30.
Safety device for sliding doors. R. G. Nichols. 2,643,421, June 30.
Safety drive clutch. H. D. Lathrop. 2,643,530, June 30.
Sailboat construction. L. Svelnsson. 2,643,628, June 30.
Salt cellar, Moistureproof. J. P. Soares and S. J. London. 2,643,797, June 30.
Salts of d-amidone with an optically active acid and resolving dl-amidone. E. E. Howe and M. Tishler. 2,644,010, June 30.
Sand-anchoring device. D. Brown. 2,643,843, June 30.
Sanitary napkin. R. L. Atkinson. 2,643,656, June 30.
Sash construction. T. H. Pickering and H. N. Maier. 2,643,744, June 30.
Saw sharpening device, Chain. B. Evanoff. 2,643,553, June 30.
Scale and charging and conditioning the same, Hydraulic weighing. W. M. Wise. 2,643,873, June 30.
Scale, Hydraulic lift. W. M. Wise. 2,643,872, June 30.
Scanning device. B. H. Klyce. 2,644,031, June 30.
Screen apparatus. J. J. Colvin. 2,643,586, June 30.
Screen for vehicles. L. H. Smith. 2,643,711, June 30.
Screw, Adjustable leveling. A. L. Baker. 2,643,845, June 30.
Screw or like feeding means. V. H. Fray. 2,643,404, June 30.
Screw starter. S. Matovich. 2,643,379, June 30.
Sealing element. O. Y. Wehmanen. 2,643,904, June 30.
Sectional member. T. Olszewski. 2,643,745, June 30.
Seeding machine. M. Soss. 2,643,623, June 30.
Self-propelled wheel chair. H. A. Everest and H. C. Jennings. 2,643,898, June 30.
Self-sealing collapsible tube. R. Perkins. 2,643,794, June 30.
Separable fastener. A. G. Wittstock. 2,643,429, June 30.
Separate magnetization of magnetic amplifiers. R. A. Ramey. 2,644,129, June 30.
Separating apparatus. O. E. Elssmann. 2,643,768, June 30.
Separating solids from gases, Method and apparatus for. F. Tanner. 2,643,769, June 30.
Separation of oxygenated organic compounds. J. H. van der Waals. 2,644,006, June 30.
Separator: *See*—
Tangential pneumatic separator.
17 α-hydroxycorticosterone by tissue oxidation of 17 α-hydroxyprogesterone, Production of. A. Zaffaroni. 2,643,070, June 30.
Severing mechanism. G. M. Bonebrake. 2,643,619, June 30.
Sheet transfer and guide. R. J. Kovatch. 2,643,757, June 30.
Sheet transfer means. F. S. Elsaesser. 2,643,880, June 30.
Shelf. T. R. Anderson. 2,643,931, June 30.
Shield, Hose nozzle. A. J. Ackermann. 2,643,668, June 30.
Shock absorber for railway car trucks, Friction. G. E. Dath. 2,643,874, June 30.
Shock absorber for railway car trucks, Friction. G. E. Dath. 2,643,876, June 30.
Shock absorber for trucks of railway cars, Friction. G. E. Dath and E. H. Lehman. 2,643,875, June 30.

Shoe construction with diagonal lacing. M. D. Herceg. 2,643,469, June 30.
Shoe machine frame. A. R. Morrill. 2,643,626, June 30.
Shoemaking machine. D. P. Weber. 2,643,405, June 30.
Shoulder strap and buckle assembly, Adjustable. F. Schwarz. 2,643,431, June 30.
Shoulder strap holder. D. Blair. 2,643,380, June 30.
Signal: *See*—
Automobile passing signal. Traffic warning signal.
Signal control, Automobile directional. M. Corpora. 2,644,149, June 30.
Signal system for traffic lights, Electrical. A. R. Finn and L. Rostoker. 2,644,147, June 30.
Ski binding. W. H. Hargis, Jr. 2,643,888, June 30.
Ski pole ring. F. Ronne. 2,643,889, June 30.
Slasher roll. J. Rockoff. 2,643,436, June 30.
Slidable side jaw wrench. W. A. Barnes. 2,643,569, June 30.
Slide fastener. W. W. English. 2,643,432, June 30.
Slide fastener wire, Manufacture of. V. Scheuerman. 2,643,559, June 30.
Slipping clutch. N. M. Haynes. 2,643,531, June 30.
Sluice gate seal. R. L. Hatch. 2,643,521, June 30.
Smoke tree. C. J. Pickens, Sr. 2,643,777, June 30.
Soap dispenser. H. H. Logan. 2,643,669, June 30.
Soil sampling machine. J. A. Hardman. 2,643,858, June 30.
Sorting machine, Article. R. E. J. Nordquist. 2,643,766, June 30.
Sound deadener for signaling devices. M. J. Hoyka. 2,643,634, June 30.
Speed sensing means, Magnetically biased centrifugal. F. P. Warrick. 2,643,871, June 30.
Spool for fishing reels, Nonfouling. E. E. Vincent. 2,643,828, June 30.
Spring clutch type coupling. L. J. Moulton. 2,643,750, June 30.
Spring loaded pop-safety valve. R. W. Dayton. 2,643,671, June 30.
Spring propelled toy vehicle. R. J. Poulin. 2,643,484, June 30.
Spring structure, Wire. W. H. Neely. 2,643,705, June 30.
Spring type clutch. H. R. Greenlee. 2,643,749, June 30.
Sprinkler. Hydraulically operated. L. R. Swank. 2,643,643, June 30.
Stabilizing polyester materials with phenyl substituted catechols. E. E. Parker. 2,643,985, June 30.
Steam reheater. J. H. Stelling. 2,643,862, June 30.
Steering system for guided missiles, 400 cycle electro-hydraulic. J. H. Broadbent and H. E. Ober. 2,644,124, June 30.
Step device for playground equipment. R. J. Hoy. 2,643,809, June 30.
Stepladder. H. McAlister. 2,643,808, June 30.
Stereoscopic viewing device. J. N. Williams. 2,643,577–8, June 30.
Stoker, Spreader. E. C. Miller. 2,643,782, June 30.
Stopcock mechanism. A. J. Cosmetto. 2,643,850, June 30.
Storage battery paste with amino dye as ion exchange expander. C. H. Rasch. 2,644,023, June 30.
Strainer and stopper, Combination basket. K. P. Wood. 2,643,394, June 30.
Strap fastening tool. E. L. Schlage, B. M. Craig, and M. J. McAneny. 2,643,687, June 30.
Strap for cameras or binoculars, Supporting. J. R. Bates. 2,643,803, June 30.
Stretcher, Emergency. O. Stassinos. 2,643,395, June 30.
Suction cleaning tool. N. A. Buccasio. 2,643,413, June 30.
Suction machine for removing insects from plants, Mobile. H. S. Wilson. 2,643,482, June 30.
Support: *See*—
Boring bar pilot support. Mirror support.
Support for telephone transmitter-receivers, Shoulder mounted. E. Zakos. 2,644,043, June 30.
Support wire inserting apparatus for incandescent lamps. J. Flaws, Jr., and L. E. Dilts. 2,643,440, June 30.
Suspension for road vehicles. A. C. Stover. 2,643,896, June 30.
Suture package. S. B. Bradshaw. 2,643,765, June 30.
Switch: *See*—
Automatic safety switch. Electric switch. Heat-controlled liquid switch. Hermetically sealed lever operated switch. Nonbounce switch. Pressure actuated switch.
Switch. H. D. Williams. 2,644,062, June 30.
Switch wafer mounting clip. E. J. Zikmund and S. E. Hatchett. 2,644,063, June 30.
Swiveled hondoo. J. F. Villmer. 2,643,638, June 30.
Synchronizer for curtain shutter cameras, Flash. H. Suzukawa. 2,643,597, June 30.
Syringe, Hypodermic. T. Åberg. 2,643,654, June 30.
System for mixing vaporized hydrocarbons with air. J. J. Mallr, Jr. 2,643,944, June 30.
Table: *See*—
Multiple extension drop-leaf table. Therapeutic table. Vertically adjustable table.
Table ensemble, Collapsible service. H. Derman. 2,643,925, June 30.
Table top, Vertically adjustable. E. G. Rudman. 2,643,922, June 30.
Table with automatic locking mechanism, Foldable. J. Pucci. 2,643,926, June 30.
Tangential pneumatic separator. L. A. Rowell. 2,643,734, June 30.
Telephone substation instrument and circuits, Multiline. D. N. MacDonald. 2,644,042, June 30.
Television circuit. G. W. Fyler and L. J. Mattingly. 2,644,104, June 30.
Television circuit. G. W. Fyler. 2,644,105, June 30.
Television deflection system. G. W. Fyler and L. S. Kongable. 2,644,103, June 30.
Television sampling system, Color. R. C. Moore. 2,644,030, June 30.
Temperature controller, Windshield. J. D. Peterson. 2,644,065, June 30.
Terminal for electric fixtures. A. A. Richardson. 2,644,144, June 30.
Textile printing paste and coating therewith. H. Kleiner, O. Bayer, and B. Becht. 2,643,958, June 30.
Therapeutic table. A. L. Colston. 2,643,651, June 30.
Thermostatic device. D. F. Drow. 2,643,825, June 30.
Thiophosphatosuccinimides. E. I. Hoegberg. 2,644,002, June 30.
Thread trimming machine. C. B. Scranton and C. T. Brewer. 2,643,435, June 30.
Throttle control, Electric. C. D. Comstock. 2,643,747, June 30.
Tie tamper, Electric. L. Tarwater. 2,643,649, June 30.
Timing indicator for internal-combustion engines. G. M. Walraven and W. R. Elwell. 2,644,131, June 30.
Toggle actuated plier wrench. J. Johnson. 2,643,567, June 30.
Toilet tank flush valve. K. K. Karr. 2,643,393, June 30.
Tool: *See*—
Boring tool. Compound boring tool. Deflecting tool. Machine tool. Nursing unit assembling tool. Oil well tool. Strap fastening tool. Suction cleaning tool.
Tool for adjusting orthodontia appliances. W. H. Grinnell. 2,643,908, June 30.
Tool for alternative direct and step-by-step operation, Portable hand. C. H. Klein and T. M. Porter. 2,643,564, June 30.
Tool for reshaping deformed automobile bodies, Spreading. J. W. Geddes. 2,643,562, June 30.
Top shield for automobiles. G. A. Lyon. 2,643,910, June 30.
Top shield for vehicles. G. A. Lyon. 2,643,911–12, June 30.
Totalizer function selection and symbol printing mechanism, A. H. Sharpe. 2,643,818, June 30.
Toy, Jet-propelled. D. C. Dozier. 2,643,882, June 30.
Traffic directing device for garages, Automatic. P. H. Burn. 2,644,150, June 30.
Traffic warning signal. W. F. Ginsberg. 2,644,152, June 30.
Trailer device, Tandem. O. W. Smith. 2,643,890, June 30.
Trailer hitch structure. W. D. Mosley. 2,643,801, June 30.
Trailer steering linkage. J. H. and J. R. Fletcher. 2,643,892, June 30.
Transfer device for traveling conveyers. J. C. Whitesell. 2,643,755, June 30.
Transferring an image-bearing gelatine layer to another film base. J. Q. Umberger. 2,643,950, June 30.
Transformer, Variable current welding. A. C. Mulder. 2,644,109, June 30.
Transmission belt for V-groove pulleys, Articulated. C. G. Borgna. 2,643,550, June 30.
Transmission line, Variable-length. M. C. Pease. 2,644,140, June 30.
Transmitting device with an ellipsoidal reflector, Sound. J. Léon. 2,643,727, June 30.
Trap. D. H. Jones. 2,643,480, June 30.
Trap hook. J. E. Stevenson. 2,643,479, June 30.
Treatment of electric apparatus intended to contain oil. J. H. O. Lindhe. 2,643,962, June 30.
Triazine monoazo dyestuffs. W. Widmer and A. Fasciati. 2,643,096, June 30.
Truck, Lift. G. F. Quayle. 2,643,740, June 30.
Trunk piston. W. M. Venner and P. L. Bowser, Jr. 2,643,921, June 30.
Tube: *See*—
Self-sealing collapsible tube.
Tube modulator, Double pulse gas. P. T. Maresca and I. Stokes. 2,644,157, June 30.
Tube mount. I. Sislik. 2,643,839, June 30.
Tube with current-traversed grid supports, Electronic discharge. W. Müller. 2,644,086, June 30.
Tuner for radio receivers and the like. C. W. Lytle. 2,644,141, June 30.
Tuning and strapping mechanism for magnetrons. A. T. Nordsieck. 2,644,106, June 30.
Tuning device, Electrical. J. T. Wilner. 2,644,095, June 30.
Turbine apparatus. A. H. Redding. 2,643,853, June 30.
Turbine, High-speed. H. T. Holzwarth. 2,643,852, June 30.
Turret roller bearing. S. C. Olszewski. 2,643,920, June 30.
Typewriter, Electric. A. J. Wohlgemuth. 2,643,753, June 30.
Undergarment for infants' wear, Double-breasted. J. L. Wyner and R. R. Scharf. 2,643,386, June 30.

Universal coupling. R. W. Hammarbach. 2,643,528, June 30.
Unloading articles from overhead conveyers, Means for. F. A. Wagner, A. D. Pierce, and J. Gedmin. 2,643,761, June 30.
Utensil, Culinary. J. B. Thomas. 2,643,907, June 30.
Vacuum cleaning machine. H. C. Keen. 2,643,732, June 30.
Valve: *See*—
Adjustable stroke lubricant dispensing valve. Corrosion resistant valve. Duplex valve. Flow dividing valve. Pilot-operated valve. Pressure governed time valve. Spring loaded pop-safety valve. Toilet tank flush valve.
Valve control arrangement, Blower. E. B. Lear. 2,643,640, June 30.
Valve having its inlet and outlet in alignment, Pressure relief. G. J. Schoessow. 2,643,673, June 30.
Valve means for aerosol spray dispensers. J. B. Reswick. 2,643,914, June 30.
Valve mechanism for pressure dispenser. J. H. Countryman. 2,643,799, June 30.
Valve unit, Multiple. R. Lapsley and G. L. Turner. 2,643,674, June 30.
Valve unit, Solenoid controlled. J. B. Parsons. 2,644,121, June 30.
Valve with auxiliary threaded stem support, Screw actuated. C. A. Davis. 2,643,849, June 30.
Vane for separators, Stripping. E. W. Smith. 2,643,736, June 30.
Variable resistance device. W. R. Jack, and L. D. Cahill. 2,644,064, June 30.
Vehicle: *See*—
Spring propelled toy vehicle.
Vehicle frame-mounting means, Motor. D. K. Chowning. 2,643,897, June 30.
Vehicle standard. L. Wallace. 2,643,841, June 30.
Veneer patch routing and patch holding during routing mechanism. C. A. Sherman. 2,643,689, June 30.
Venetian blind. J. W. Dunn. 2,643,712, June 30.
Venetian blind. S. F. Mayer. 2,643,713, June 30.
Venting apparatus for tanks or the like. J. F. Lee and G. E. Denny. 2,643,666, June 30.
Vernier control and pivot mounting for transits and like instruments. H. C. Nette. 2,643,844, June 30
Vertically adjustable table. F. E. Beall. 2,643,923, June 30.
Vesicant composition for and method of rendering water hazardous. J. E. Mills. 2,643,966, June 30.
Vise construction, Screw-operated. A. E. Gaudreau. 2,643,563, June 30.
Voice current repeater. O. D. Grandstaff. 2,644,044, June 30.
Voltage indicator. N. Schnoll. 2,644,134, June 30.
Voltage regulator. W. H. Henrich. 2,644,128, June 30.
Voltage translating means. P. Glass. 2,644,085, June 30.
Voltmeter, Cathode-ray tube. E. H. T. Jackson. 2,644,137, June 30.
Voltmeter, Ultrahigh impedance electrometer tube. E. H. Mullins. 2,644,136, June 30.
Wall construction, Dry. R. J. Brendel. 2,643,423, June 30.
Wallet, Secretary type pocket. R. M. Smith. 2,643,695, June 30.
Warp and other flanged beams, Manufacture of. S. Stanworth. 2,643,902, June 30.
Washing machine provided with resilient vibration control door sealing means. W. C. Bruckman, M. A. Kreitchman, and W. J. Olson. 2,643,538, June 30.
Water inlet system for automatic washing machines. H. E. Stocking. 2,643,665, June 30.
Water planing undercarriage with flotation means for aircraft. R. B. Jaaney, II. 2,643,835, June 30.
Water treating apparatus. J. F. Sebald. 2,643,976, June 30.
Wave signal transponder system. M. K. Taylor and I. N. Vaughan-Jones. 2,644,078, June 30.
Wax article and preparation, Nonsticking. N. Thompson. 2,643,973, June 30.
Weaving shuttle with round bobbin. E. Egli. 2,643,685, June 30.
Web-slitting machine with minutely variable cutting-roll equipment. M. Schneider. 2,643,719, June 30.
Welding apparatus, Portable electric spot. C. H. Watson. 2,644,067, June 30.
Welding device. H. J. Graham. 2,644,068, June 30.
Wheel: *See*—
Grinding wheel. Polishing and buffing wheel.
Wheel. A. P. Douglas and L. J. Walters. 2,643,917, June 30.
Wheel and the like, Contact. H. Whitesell. 2,643,549, June 30.
Wild game calling device. W. J. Walker. 2,643,483, June 30.
Winding appacatus. W. H. Franzmann. 2,643,827, June 30.
Window assembly. J. Sylvan. 2,643,710, June 30.
Window construction. P. L. Gottschalk. 2,643,422, June 30.
Window construction. H. Gyorfy. 2,643,601, June 30.
Windshield visor and washer, Combined. E. E. Foster. 2,643,909, June 30.
Wiper blade clip. I. Nesson. 2,643,410, June 30.
Wiper blade connector. I. Nesson. 2,643,411, June 30.
Wire stripping implement. A. Ackley. 2,643,561, June 30.
Work feeding mechanism for sewing machines. G. M. Reimer. 2,643,625, June 30.
Woven elastic fabric. A. J. Richards. 2,643,686, June 30.
Wrapping device, Package. R. D. Gothar. 2,643,424, June 30.
Wrapping machine. L. Brook. 2,643,500, June 30.
Wrapping machine. C. A. Gerlach. 2,643,499, June 30.
Wrapping machine. A. Russell. 2,643,501, June 30.
Wrench: *See*—
Bung wrench. Slidable side jaw wrench. Toggle actuated plier wrench.
Wrench having spring-closed and lever-locked pivotal jaws. C. A. Milentz. 2,643,568, June 30.
Wristband, Absorbent. T. O. Wegner. 2,643,389, June 30.
Yarn carrier for Axminster looms. L. A. Runton. 2,643,681, June 30.
Yarn tension. M. R. Flamand. 2,643,831, June 30.

CLASSIFICATION OF PATENTS

ISSUED JUNE 30, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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CLASSIFICATION OF DESIGNS

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U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

SCHULMERICH ELECTRONICS, INC.
v.
J. C. DEAGAN, INC.

No. 5912. Decided March 11, 1953

[202 F.2d 772; 97 USPQ 141]

1. TRADE-MARKS—DOCTRINE OF SECONDARY MEANING—RULE IN *KELLOGG COMPANY v. NATIONAL BISCUIT COMPANY*, 305 U. S. 111, APPLIES TO TRADE-MARKS.

Held that the principle stated in *Kellogg Company v. National Biscuit Company*, 305 U. S. 111, viz., that to establish an exclusive right to a descriptive *trade name* the claimant must show that the primary significance of the term in the minds of the consuming public is not the product but the producer, applies with equal or greater force to trade-marks.

2. SAME—ACT OF 1946—SECTION 2(f) DOES NOT PERMIT REGISTRATION OF GENERIC TERM.

The phraseology of section 2(f) of the act of 1946 does not imply that a notation, which is inherently incapable of functioning as a trade-mark by indicating origin can be made a registrable trade-mark by proving its continuous use for five years "next preceding the date of filing of the application for its registration."

3. SAME—REGISTRABILITY—"CARILLONIC BELLS."

The decision of the Commissioner of Patents holding the term "Carillonic Bells" is a generically descriptive term which cannot function as a trade-mark is affirmed.

APPEAL from the Patent Office. Opposition No. 27,576.

AFFIRMED.

Pollard and Johnston (*Albert C. Johnston* and *D. Verner Smythe* of counsel) for appellant.

Hill, Sherman, Meroni, Gross & Simpson (*Carlton Hill* of counsel) for appellee.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Commissioner of Patents, speaking through the late Assistant Commissioner Ernest F. Klinge, affirming the decision of Examiner of Interferences A. D. Bailey, sustaining the opposition of appellee to appellant's application, Serial No. 506,968, filed in its present form February 5, 1948, for the registration on the Principal Register under section 2(f) of the Trade-Mark Act of July 5, 1946, Ch. 22 of Title 15, U. S. C., of the notation "CARILLONIC BELLS" as a trade-mark for "Electrically Operated Carillons or Chimes." Use of the notation on appellant's product is alleged to have begun "in or about January 1941," which was more than five years prior to the filing date.

It is a part of the history of the case, as shown by the record, that appellant first filed an application on August 6, 1946, which received the Serial Number 506,968, for registration of the notation "in accordance with the Trade-Mark Act of 1920," which act admitted of the registration on a special register under conditions described in the act, of certain types of marks, including descriptive and name marks, not registrable under the Trade-Mark Act of February 5, 1905.

After an action by an Examiner on April 10, 1947, which has no present bearing on the controversy, appellant on February 5, 1948, substituted the application here involved, the serial number of the first application being retained.[1]

In his decision, the Assistant Commissioner quoted with approval the following comprehensive description of the type of goods manufactured by the respective parties, given by the Examiner of Interferences in his decision of October 12, 1950:

> The carillonic devices sold by both parties are modern developments designed to simulate the musical performances of traditional companiform carillons. Such carillons, of which there are two distinctive types, Flemish and English, are composed of sets of stationary, cast, cup-shaped bells of progressive varying sizes, which in general are tuned to the chromatic scale over a range of three or more octaves, and may be rung either manually or mechanically. They are of the familiar type commonly mounted in belfries of churches, and to some extent in other tower structures of religious or educational institutions or the like.
>
> Companiform carillons of the traditional kind ordinarily cost many thousands of dollars, and the usual installation thereof also involves large expense for a belfry or tower of a size and structure to accommodate the bells, which in the aggregate may exceed 50,000 pounds of weight. The products of both parties, although closely imitating traditional carillons in musical effects, differ widely therefrom in structural characteristics, and are relatively inexpensive. The applicant's product is an electronic apparatus comprising a series of vibratory sound elements consisting of small metal rods in graduated sizes ranging up to 18 inches in length, each of which is associated with a hammer. The hammer is electrically controlled from a keyboard console or similar apparatus, and when actuated, strikes the rod to produce a bell-like sound which, if unamplified, would be inaudible beyond the limits of a good sized room. An electronic system modifies and amplifies this sound, which is projected in suitable volume by an electrodynamic speaker. This instrument of the applicant's manufacture may be operated from separate consoles, either manually or mechanically, or from organ keys controlled by a stop, and are made to simulate the musical effects of both English and Flemish type carillons. The speakers are of negligible size and may be placed in any convenient location within a building or any available belfry or tower. The applicant's products sell from about $1,700 to $20,000 for instruments varying from 25 to 61 notes; and since

[1] The Trade-Mark Act of 1946, often referred to as the Lanham Act, was approved by the President July 5, 1946, its effective date being fixed by section 40(a) at "one year from its enactment," but section 47(a) provided that all applications pending on the effective date might be amended, if practicable, to bring them under the provisions of the 1946 act.

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the applicant's entry into the field in or about 1941, it has had sales thereof, mostly to churches, valued at about $2,500,000 and involving over 700 installations in an area comprising a majority of the States and a number of foreign countries.

As indicated by its Exhibits 4 and 6, the opposer's products, which are marketed under the notation "Deagan Carillons," comprise a set of modified tubular bells or chimes adapted to be mounted in a belfry or tower. These bells without amplification closely reproduce the tones of traditional carillons, and are electrically operated, either manually from a keyboard or automatically by mechanical means. The tower unit of this device, consisting of a frame supporting the bells and associated mechanisms, occupies but a fraction of the space required for a comparable set of companiform bells. The cost of the opposer's carillons varies in proportion to the number of bells, ranging in basic price, exclusive of belfry and associated equipment costs, at around $9,000 for the 10-bell device, to about $20,000 for the 25-bell instrument, etc. The opposer's sales from 1920 through 1948 are estimated at close to 500 instruments, valued at 4¾ million dollars, of which about 45 installations have been made since 1941.

On April 30, 1948, appellee filed its notice of opposition stating the grounds of same as follows:

1. Opposer is, and for many years prior to January, 1941, the date alleged by applicant as the date of adoption of its alleged trade-mark used by it, has been engaged in the business of manufacturing and selling carillons in interstate commerce.

2. The term "Carillonic Bells" is not a trade-mark, nor can it function as a trade-mark.

3. The term "Carillonic Bells" is not being used as a trade-mark by the applicant.

4. As purportedly used by applicant, the term "Carillonic Bells" is a misnomer, and the products enumerated in the said application, namely, electrically operated carillons or chimes, is not a proper or true designation or description of said products.

5. Applicant is not entitled to registration under section 2(f) or any other section, of its alleged trade-mark "Carillonic Bells," in view of the fact that said term as used by applicant is misdescriptive and misleading when applied to the goods sold by applicant.

6. Applicant is not entitled to registration because the use of the mark sought to be registered violates section 43(a) of the act of 1946.

7. Attached hereto are two photostatic copies of applicant's booklet entitled "Deagan Carillons" which shows and describes applicant's true carillons.

8. Opposer, who, for many years, has been engaged in the manufacture and sale of true carillons, has built up a very valuable good will in its said business, and has spent considerable sums of money in advertising and popularizing its said products. The use by applicant of its alleged trade-mark "Carillonic Bells" upon products which are not true carillons seriously damages applicant's business in the sale of carillons.

9. Opposer and applicant are competitors, both being engaged in selling to the same class of purchasers.

10. If applicant were permitted to use and register its alleged trade-mark "Carillonic Bells" for its products improperly termed carillons or chimes, confusion in the trade will arise, with resulting damage to applicant and others who manufacture and sell true carillons.

11. If applicant were granted the registration herein opposed, it would be placed in a position to harass and cause annoyance to opposer and its customers.

Appellant first responded to the notice of opposition with motions filed July 21, 1948 (*a*) to strike all or specified parts of the notice for immaterinlity; and, (*b*) to dismiss the notice because of the alleged failure to state facts on which the opposition might properly be sustained.

The Examiner of Interferences denied both motions in a decision rendered August 24, 1948[1] and adhered to his denial in a decision rendered September 16, 1948, in response to a request of appellant for reconsideration.

On October 6, 1948, appellant filed its answer to the notice of opposition, and, on that same date, filed a petition to the Commissioner reading in part:

Applicant respectfully petitions the Commissioner of Patents in the exercise of his supervisory authority (1) to direct that the notice of opposition filed April 30, 1948, be dismissed by the Examiner of Interferences and (2), if the opposition be permitted to continue, to direct that paragraphs 4, 5 and 6 of the notice be stricken so as to exclude the matters they allege from the issues subject to proofs and adjudication in this proceeding.

The petition was denied by former Assistant Commissioner Joe E. Daniels on the ground that the case was not a proper one for exercise of the Commissioner's supervisory authority without indicating any opinion on the merits of the issues ultimately to be determined.

Appellant's answer to the notice of opposition was filed October 6, 1948, the pertinent portions being couched in the following terms:

1. Applicant admits the matters alleged in paragraphs 1 and 9 of the notice of opposition.

2. Applicant denies all the matters alleged in paragraphs 2, 3, 4, 5, 6, 7, 10 and 11 of the notice of opposition.

3. Applicant lacks knowledge or information sufficient to form a belief as to the truth of the matters alleged in the first sentence of paragraph 8 of the notice of opposition and therefore denies the same; and applicant denies the allegations in the second sentence of that paragraph.

4. Further answering the notice of opposition, applicant states that the same fails to state a claim upon which relief can be granted and moves that it be dismissed for the reason that it does not allege facts showing that opposer would be damaged by the registration of the trade-mark forming the subject of applicant's application Serial No. 506,968.

5. Further answering the notice of opposition, applicant states that the matters alleged in paragraphs 4, 5, and 6 and the second sentence of paragraph 8 thereof are immaterial to the registrability of said trade-mark upon said application and applicant moves that the same be stricken and excluded from issues to be determined in this proceeding.

6. Further answering said notice of opposition, applicant states that the Commissioner of Patents is without jurisdiction to adjudicate the matters alleged in paragraphs 4, 5 and 6 thereof; the same being merely complaints by the opposer, related to the jurisdiction of Federal courts with respect to actions under section 43(a) of the Act of 1946, or to the jurisdiction of the Federal Trade Commission, against applicant's uses of the mark "Carillonic Bells" and against alleged relationships between some supposed meaning of the mark and the character or quality of applicant's electrically operated carillons or chimes.

The portion of section 2 here involved reads:

No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the Principal Register on account of its nature unless it—

• • • • • • •

(*e*) Consists of a mark which, (1) when applied to the goods of the applicant is merely descriptive or deceptively misdescriptive of them. • • •

(*f*) Except as expressly excluded in paragraphs (*a*), (*b*), (*c*), and (*d*) of this section, nothing herein shall prevent the registration of a mark used by the applicant which has become distinctive of the applicant's goods in commerce. The Commissioner may accept as prima facie evidence that the mark has become distinctive, as applied to the applicant's goods in commerce, proof of substantially exclusive and continuous use thereof as a mark by the applicant in commerce for the five years next preceding the date of the filing of the application for its registration.

The Lanham Act undoubtedly admits of registrations on the Principal Register which could not have been admitted properly under the act of 1905. For example, a notation merely descriptive of the goods to which it is applied may be registered when it has acquired a distinctive meaning as applied to an applicant's goods and five years exclusive and continuous use during the period "next preceding the date of filing the application" *may* be accepted as prima facie evidence of the distinctiveness required, but such right of registration, in our opinion, exists only with respect to notations, symbols, etc., which are capable of indicating the origin of a product; not just the name of a product. One properly may not procure the exclusive rights appertaining to a registered trade-mark when the mark consists of nothing more than the name of the object to which applied.

[1] The Examiner of Interferences seems to have sustained a motion to strike an amended notice of opposition presented by appellee because not timely filed. That has no bearing upon the issues now involved.

The brief on behalf of appellant before us seems to go so fnr as to contend that a mark which is "deceptively misdescriptive" within the meaning of section 2(e), supra, properly may be registered if it be distinctive of an applicant's goods.

We do not share that view, but we are not called upon to pass upon that question in this decision. All the allegations of misdescriptiveness in the paragraphs of appellee's notice of opposition, including whatever implication of false description may be implied from the claim in paragraph 6, relating to the violation of section 43(a) (15 U. S. C. 1125a), were decided adversely to appellee by both the Examiner of Interferences and the Assistant Commissioner, the latter saying:

It has been argued by the opposer that the term "CARILLONIC BELLS" is misdescriptive as applied to applicant's instrument which is not a true carillon because it does not in fact comprise bells as do true companiform carillons, as that word is generally understood. However, the instrument is played like the original of which it is an imitation, sounds the same to the average listener and is adapted to all the usual musical uses and limitations characteristic of the type of instrument of which it is substantially the equivalent. It is my view that the applicant's mark is not deceptively misdescriptive *but is a generic term characterizing the goods to which it is applied*. For that reason, the mark is inherently incapable of functioning as a trade-mark to distinguish the origin of applicant's goods in commerce. [Italics ours.]

There was no appeal from that holding by appellee here, nor any discussion of misdescriptiveness in the brief filed on appellee's behalf. In consequence, misdescriptiveness will not be further discussed herein.

Any notation, to be registrable, of course, must be a trade-mark as that term is legally defined and understood. Webster's New International Dictionary gives the following definition which is in harmony with those given by all lay and legal lexicographers whose works have been available for our examination:

A peculiar distinguishing mark, device, or symbol affixed by a manufacturer, merchant, or trader to his goods in order to identify them as his goods, and to distinguish them from the goods manufactured, sold, or dealt in, by others; hence, specif., such a mark *the exclusive right to the use of which is recognized by law.* [Italics ours.]

In the case of *Kellogg Company* v. *National Biscuit Company*, 305 U. S. 111, the notation "shredded wheat" was held to be generic by the Supreme Court of the United States—that is, it was held to be the name of a product—and it was said: "Since the term is generic, the original maker of the product acquired no exclusive right to use it." The Court said further, as expressed in one of the headnotes of the decision:

To establish, by application of the doctrine of secondary meaning, the exclusive right to "shredded wheat" as a trade-name, the claimant must show that *the primary significance of the term in the minds of the consuming public is not the product but the producer.* [Italics ours.]

[1] The term "trade name" was used in the body of the decision and in the headnote, because the term there involved was involved as a trade name, but it is not supposed that there can be any doubt that the principle stated applies with equal or even greater force to a trade-mark.

We do not lose sight of the fact that the decision was rendered in that case in November, 1938, which was many years before the enactment of the Lanham Act here involved, but we find nothing in the latter act which, in our opinion, renders inapplicable the principle or rule announced in the Supreme Court's decision.

It is true that the concluding sentence of section 2(f), supra, states:

• • • The Commissioner may accept as prima facie evidence that the mark has become distinctive, as applied to the applicant's goods in commerce, proof of substantially exclusive and continuous use thereof as a mark by the applicant in commerce for the five years next preceding the date of the filing of the application for its registration.

It will be noted that the provision reads "may"—not "must"—accept, etc., but there need be no quibble here about that distinction.

[2] As we view it, the phraseology quoted does not imply that evidence that a notation *which is inherently incapable of functioning as a trade-mark by indicating origin*, can be made a legal and, therefore, a registrable trade-mark by proving its continuous use for five years "next preceding the date of the filing of the application for its registration."

So far as we are aware—and we have examined many cases—neither the Commissioner of Patents nor any court has, since the decision in the *Kellogg* case, supra, held such a notation registrable under any trade-mark registration statute, including the Lanham Act. However that may be, no decision of the Supreme Court of the United States has come to our attention which overruled, even by implication, the principle of that decision and it remains the law which we deem particularly applicable in this case.

Other pertinent cases were cited by the Examiner of Interferences and the Assistant Commissioner, whose comprehensive decisions will be found of interest to all members of the public who may be, or who may become, concerned with the questions here at issue.

In the course of his decision the Examiner of Interferences after quoting dictionary definitions of "carillon" and "bells" said, inter alia:

It is the opinion of the Examiner [of Interferences], • • •, that although "Carillonic Bells" properly describes the applicant's goods, it does so in a generic sense. The suffix "ic" is defined by Webster as meaning "of or pertaining to (that which the root word denotes), • • • after the manner of, characteristic of, resembling • • •"

"Carillonic Bells," therefore, literally signifies "bells of a carillon," "bells resembling those of a carillon," and the like, and hence it is deemed manifestly to be inherently incapable of identifying the applicant's goods to the exclusion of any device comprising carillonic as distinguished from other kinds of bells. *And it has always been the rule that any such generically descriptive term may not be exclusively appropriated as a trade-mark, regardless of how long a claimant fortuitously may have enjoyed the exclusive use thereof in trade. Kellogg Company* v. *National Biscuit Co.*, 305 U. S. 111, 499 O. G. 3, 1939 C. D. 850; *In re The Paris Medicine Co.*, 480 O. G. 6, 87 F.2 484, CCPA; *Ex parte Stauffer Chemical Co.*, 81 USPQ 253; *Ex parte Pine Hill Products Co.*, 83 USPQ

398; *Ex parte Pond's Extract Co.*, 77 USPQ 56; *Ex parte Cube Steak Machine Co.*, 86 USPQ 327; *Ex parte Kops Brothers, Inc.*, 70 USPQ 541; *Ex parte Sperry Gyroscope Co., Inc.*, 77 USPQ 634. [Italics ours.]

With respect to the contention of appellant that the notice of opposition should have been dismissed "for the reason that it does not allege facts showing that opposer would be damaged by the registration" sought, the Examiner of Interferences in his decision on the request for rehearing said:

• • • should the applicant's theory as to the opposer's lack of interest in the subject matter be correct, no one could possess standing to oppose the registration of a mark upon the statutory grounds relied upon by the opposer in the present case.

The Assistant Commissioner stated:

• • • The notice of opposition alleged that for many years prior to January, 1941, the date when applicant began the use of its mark, the opposer has been engaged in the business of manufacturing and selling carillons in interstate commerce, and this the applicant does not deny. It was further alleged that the term "CARILLONIC BELLS" cannot function as a trade-mark, is a misnomer and is therefore not a truly proper designation of the applicant's product. The Examiner in his decision held that inasmuch as the parties are competitors in the sale of instruments consisting primarily of carillonic bells, the registration sought by the applicant would be injurious to the opposer as it would also be to any other producer of this character of product, and with this conclusion I am inclined to agree. The opposer has shown ample interest in the subject matter of this opposition, and I am not convinced by the applicant's arguments that the opposition should have been dismissed. It has been established to my satisfaction that probability of damage to the opposer and other manufacturers of carillons of the type manufactured by the applicant would follow from the registration of the applicant's mark. *Burmel Handkerchief Corporation* v. *Cluett, Peabody & Co.*, 29 CCPA (Patents) 1024, 127 F.2d 318, 53 USPQ 369; *Borber-Colman Co.* v. *Overhead Door Corporation*, supra [20 CCPA (Patents) 1118, 65 F.2d 147, 17 USPQ 501].

We have considered carefully appellant's contentions as to the inapplicability of the decisions cited by the Assistant Commissioner but are unable to agree with such contentions.

[3] The decision of the Assistant Commissioner is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE PATZER

No. 5936. Decided February 6, 1953

[201 F.2d 942; 96 USPQ 416]

PATENTABILITY—PARTICULAR SUBJECT MATTER—CRADLE FOR COIN SELECTOR.

A certain claim to a cradle for a coin selector *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from the Patent Office. Serial No. 792,006.

AFFIRMED.

Clarence E. Threedy for appellant.

E. L. Reynolds for the Commissioner of Patents.

GARRETT, *Chief Judge*:

Appellant here seeks review and reversal of the decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Primary Examiner of a claim numbered 3 in appellant's application for patent entitled "Improvements in Coin Selector."

Other claims were involved in the appeal from the decision of the Examiner to the Board, but upon motion of counsel for appellant the appeal as to them was dismissed by the Board and they are not before us.

Claim 3 reads:

3. A cradle for a coin selector comprising a member providing a projection, a second member providing another projection disposed in a preselected position with respect to the first projection to cooperate with the first projection to support therebetween a coin of proper diameter, and means for adjustably connecting the second member to the first member whereby to adjust the second projection in said preselected position with respect to the first-named projection.

The claim at issue, which relates solely to the cradle feature of a coin selector, was held to be unpatentable over the prior art defined in the following patents: Smith et al., 365,353, June 21, 1887; Williamson, 1,802,488, Apr. 28, 1931; Fry, 2,292,628, Aug. 11, 1942.

All three of the references are in the same field of art as the application of appellant.

The specification of appellant's application contains a complicated description of the mechanism of a coin selector, which need not be repeated in detail inasmuch as the claim is limited to the cradle.

The drawings show an integral finger having an inturned end providing a projection. An extended portion may be formed as an integral part of the cradle to serve as a counterweight. The cradle has an arcuate slot with a pin mounted therein. The pin provides a shoulder from which extends a threaded stud on which a nut is threaded by which the pin may be adjustably fixed in a preselected position with respect to the slot and with respect to the projection provided by the inturned end of the finger. By the means so described the inturned end of the finger and the shoulder provided by the pin may be spaced to receive coins of three different dimensions, namely, coins of 25-cent, 10-cent and 5-cent denominations.

In one of the figures of the Fry patent drawings a cradle is shown having arms which carry lugs that correspond to the projections (the inturned finger and shoulder) described in appellant's device, but no means for adjusting the spacing of the lugs are provided in the Fry patent.

The patent to Smith et al. shows a coin receiving and directing means having spaced members, one of which is movable from and toward the other by means of a screw so that, according to the description given in the specification, the width of the aperture through which the coin is introduced into the machine "can be adjusted to any desired size of coin or metallic disk."

The patent to Williamson, which is entitled "Coin Controlled Operating Mechanism for Vending Machines," shows what the specification characterizes as "a pocket having opposed walls," in one of which there is a screw that renders it adjustable with reference to the other wall so that the coin receiving space may be varied to accommodate coins of different dimensions.

A much emphasized feature of appellant's device is described as follows:

• • • It is • • • an object of this invention to provide a cradle, the projections of which may be adjusted relative to each other to accommodate coins of proper weight but of a diameter slightly under that of the genuine coin.

It is explained that the purpose of this feature is to care for coins which become so worn by use that their diameters are reduced with the result that they will not be discharged from the cradle into the acceptance pathway of the machine but will cling to the cradle and sometimes become tightly wedged between the projections. It is said that this difficulty may be remedied readily and quickly with the minimum degree of labor "by merely adjusting the coin supporting projections to a proper and required position."

It will be observed that so far as the claim (which always is the measure of an invention) is concerned, there is no description of any particular means by which the desired functions appertaining to a coin selector are performed. The specification recites certain means not reflected in the claim.

The claim in itself is broad enough to cover all means of adjustment, including the means disclosed in the prior art cited.

In the case of *In re Brandt*, 20 CCPA 1005, 64 F.2d 693, 17 USPQ 295, which involved patentability of a coin handling device, we had occasion to say:

Adjustability is usually not a patentable subject matter unless the adjustability is made in a new and improved way. Making parts adjustable is not invention, if the ordinary ingenuity of a skilled mechanic can accomplish it. *In re Tucker and Reeves*, 18 CCPA (Patents) 875, 46 F.2d 214; *Smyth Mfg. Co.* v. *Sheridan et al.*, 149 Fed. 208.

It does not seem to us that it required invention to make the mechanism defined in the Fry patent adjustable, particularly in view of the Smith et al. and Williamson patents.

The decision of the Board of Appeals is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

CHANDLER v. MOCK

No. 5911. Decided February 6, 1953

MOCK v. CHANDLER

No. 5895. Decided February 6, 1953. Petition for rehearing denied April 10, 1953

[202 F.2d 755; 97 USPQ 135]

1. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—INTERFERENCES—WEIGHT TO BE GIVEN PATENT OFFICE DECISION.

When an issue between contending parties as to the priority of invention is decided in the Patent Office, the decision there made must be accepted as controlling upon that question of fact in any subsequent litigation between the same parties, unless the challenged decision is manifestly wrong and the contrary is established by testimony which in character and amount is altogether convincing.

2. INTERFERENCES—REDUCTION TO PRACTICE—SATISFACTORY OPERATION UNDER CONDITIONS OF USE MUST BE SHOWN.

Held that the Board proceeded in accordance with an established principle of patent law in holding that tests of a complex mechanical device consisting of an aircraft carburetor must establish that the carburetor would satisfactorily operate under conditions of use, real or simulated, for which it was intended to function.

3. SAME—PRIORITY OF INVENTION—AIRCRAFT CARBURETOR.

The decision of the Board of Interference Examiners awarding priority of invention of certain counts to an aircraft carburetor to appellee is affirmed.

APPEAL from the Patent Office. Interference No. 84,297.

AFFIRMED.

A. M. Prentiss for Mr. Chandler.

K. G. Doub (*E. C. Naylor* of counsel) for Mr. Mock.

O'CONNELL, *J.*:

Appellant Chandler has appealed here from a decision of the Board of Interference Examiners of the Patent Office awarding to appellee Mock priority of the invention defined by the single count in issue. The interference involved application No. 524,534 filed by the senior party Mock March 1, 1944, and Patent No. 2,485,430 granted to the junior party Chandler October 18, 1949, on an application filed November 17, 1944. The latter embodied claims for new and useful improvements in carburetors, and the count was copied from claim 11 of the patent, which reads as follows:

A carburetor comprising an air passage with an air supply and a liquid fuel supply thereto, means for supplying fuel to said air passage in proportion to the velocity of air flow therethrough, and means for compensating said fuel supply for variations in density of said air supply, including an element, insensitive to ambient temperature changes, but responsive to the pressure of said air supply, operatively associated with an element responsive to the temperature of said air supply and insensitive to the pressure thereof.

Both parties took testimony, filed briefs, and were represented by counsel at the final hearing. The Board properly noted that the automatic control means which Chandler sought to improve by the development of the invention of the count was the standard commercial carburetor 58CPB–4 used on engines manufactured by the Wright Aeronautical Company; that these engines supplied by such carburetors were in actual service on airplanes; that Wright by specific data had indicated to Chandler the extent to which the standard carburetor deviated from supplying a fuel mixture of the desired proportions; and that such deviation was due to the fact that the automatic mixture control means, which was responsive to changes in air pressure and temperature, did not accurately respond to changes in air temperatures.

The automatic mixture control means of the standard carburetor hereinbefore described was a unitary device in the form of a gas filled bellows which, as the Board noted, Chandler utilized in the following manner to accomplish the objects of the invention, asterisks being substituted here for references to the schematic drawings:

• • • Chandler filled the bellows • • • with a liquid, which is substantially insensitive to ambient temperature; he placed a gas filled bulb or tube • • • in the air passage • • • of the carburetor, and connected the bellows with the bulb by a small conduit • • •. The gas bulb being inflexible is insensitive to air pressure changes, but it is responsive to air temperature variations due to the fact that the gas in the bulb, expanding with higher temperatures, increases the pressure transmitted to the interior of the bellows by the conduit • • •.

Such a device was built and substituted for the "automatic mixture control" in a standard carburetor

58CPB—4. The resulting carburetor was designated as 58CPB—4 No. 9,500, also referred to in the record as 58 size carburetor No. 9,500, or carburetor No. 9,500. * * *

The Board in its decision held that while Chandler's proofs clearly established his prior conception of the invention in October of 1943, nevertheless Chandler was the last to reduce the invention to practice due (1) to the insufficiency of the tests of the apparatus upon which he relied for actual reduction to practice, and (2) his failure to couple his earlier conception with an adequate showing of diligence during the critical period when Mock entered the field. Accordingly, the filing date of Chandler's application, November 17, 1944, was the earliest date, the Board held, to which Chandler was entitled for constructive reduction to practice.

Chandler is satisfied with that part of the Board's decision with respect to his earlier conception of the invention but appeals from the remainder of the decision. Mock has cross appealed from the first part of the Board's decision favorable to Chandler. By stipulation of the parties the two transcripts of the record below have been consolidated into a single record, which thereby constitutes the basis of the dual proceeding here on appeal. The consolidated record also discloses the position taken by the respective parties as well as the Board on Chandler's unsuccessful petition for reconsideration and reversal of the Board's decision. The introduction of Chandler's said petition is deemed pertinent to the following effect:

The invention defined by the count here in issue is one of great practical value to the aircraft carburetor art and covers a wide variety of commercial applications. It is therefore a notable contribution in the field of aircraft carburetor production, and it is, accordingly, urged that the question of priority in this case be weighed and decided on a realistic basis of broad practical considerations, rather than upon rules of evidence construed with legalistic rigidity. * * *

Chandler vigorously contends here as he did below that prior to Mock's filing date of March 1, 1944, Chandler by active diligence actually reduced the invention device to practice by satisfactory performance tests, completed February 7, 1944, at the Dayton, Ohio, plant of Chandler's assignee, and that the device so tested was placed without material change in commercial use by the Wright Aeronautical Company on airplanes in actual service of the armed forces of the United States.

The tests hereinbefore described for compensating the fuel supply of a carburetor for variations in density of the air supply thereto were made by Chandler in an "air box" at the Dayton plant. Four of his corroborating witnesses who testified concerning these "air box" tests stated unequivocally that they were performed under conditions which simulated actual flight conditions, and the result of such tests established that Chandler's invention device performed not only in a successful manner but obtained even better results than those produced by the standard Chandler-Evans air density compensating device then used in actual flight by the armed services.

The testimony in behalf of the party Chandler was accompanied by unchallenged contemporaneous and detailed test records. Chandler therefore expresses here the belief that the refusal to award priority to him rested upon "*speculative inferences*" by the Board which constituted no valid basis upon which to overrule the testimony in support of Chandler's position by the highly qualified witnesses and the records introduced in evidence.

[1] When an issue between contending parties as to the priority of invention is decided in the Patent Office, the decision there made must be accepted as controlling upon that question of fact in any subsequent litigation between the same parties, unless the challenged decision is manifestly wrong and the contrary is established by testimony which in character and amount is altogether convincing. *Morgan* v. *Daniels*, 153 U. S. 120.

[2] The Board in reaching its conclusion properly proceeded in accordance with an established principle of patent law that tests of a complex mechanical device consisting of an aircraft carburetor must establish that the carburetor would satisfactorily operate under conditions of use, real or simulated, for which it was intended to function; namely, flight conditions, citing *Chandler* v. *Mock*, 32 CCPA (Patents) 1183, 150 F.2d 563, 66 USPQ 209; *Burns* v. *Curtis*, 36 CCPA (Patents) 860, 172 F.2d 588, 80 USPQ 587; *Poicell* v. *Poupitch*, 35 CCPA (Patents) 1080, 167 F.2d 514, 77 USPQ 379; *Balogh* v. *Crot*, 37 CCPA (Patents) 707, 176 F.2d 923, 83 USPQ 130. See also *Kruger* v. *Resnick*, 39 CCPA (Patents) 994, 197 F.2d 348, 94 USPQ 65; *Mock* v. *Johnson*, 52 App. D. C. 300, 286 Fed. 639; *Paul* v. *Hess*, 24 App. D. C. 462. On that basis the Board held as follows:

It is our opinion that the Dayton "air box" tests did not amount to reduction to practice. These tests simulated air temperature and air pressure conditions encountered in actual flights, but there is no proof that they simulated other flight conditions. The Dayton "air box" tests did not involve engine tests and there is no showing that they involved vibration tests. It is true that the Wright Aeronautical tests in November 1943 involved engine tests, but the data pertaining to these tests is not before us, and there is no other satisfactory proof that these tests were so successful as to amount to reduction to practice. The mere conclusions of the witnesses as to the results of such tests cannot be accepted as proof. It is also true that the witness Hackett testified that he made vibration tests of the device. These tests, however, were made at another place and time from the Dayton tests. In our opinion the vibration should be concurrent with the other flight conditions in order to simulate flight conditions. Furthermore, in flight there might be tilting of the carburetor. There is nothing in the record to show what would happen when the carburetor with the oil filled bellows and gas bulb was tilted. Would the oil leave the bellows and fill the bulb and would the oil return to the bellows when the carburetor was righted, or would bubbles of gas in the oil result in interference with the operation of the device? And what would be the operation of the device while the carburetor remained tilted with the oil in the bulb and the gas in the bellows?

There appears to be no manifest error in the foregoing decision of the Board on the validity of the tests involved and those tests, admittedly, constitute the crux of the issue as to Chandler's principal claim of a prior reduction to practice. Here we have a new automatic mixture control unit which embodies a major change in design amounting to invention. The practicability of the invention should have been established by timely tests which adequately embraced the essential conditions which the carburetor would be required to meet in actual service on an airplane.[1] In Chandler's environment and with his wide connections in the aircraft industry, the requirement seems relatively simple.

Chandler takes exception to the Board's holding that he failed to prove diligence during the critical period of the four months between March 1, 1944, and June 30, 1944. Clark, the patent attorney, worked on the preparation of Chandler's application during July, August, and September of 1944, and to some extent through October and November until it was filed on November 17, 1944. The evidence adduced by Chandler as to Clark's alleged "active engineering development" during the said period does not meet the requirement of the law with respect to diligence. *Ireland* v. *Smith*, 25 CCPA (Patents) 1258, 97 F.2d 95, 37 USPQ 807; *Grundy* v. *Van Leir*, 22 CCPA (Patents) 1034, 75 F.2d 503, 25 USPQ 1.

In view of the conclusions hereinbefore expressed, it is deemed unnecessary to present and discuss other points raised by counsel for the parties in their respective appeals. [3] The decision of the Board of Interference Examiners awarding priority to the senior party Mock is affirmed.

AFFIRMED.

[1] Appellee Mock makes the following contention in his brief on the point in issue:

There are a number of reasons in addition to those specified in the Board's decision why actual flight test cannot be duplicated in an air box. For example, consider "scoop effects." It is not practical to have the air scoop any appreciable distance away from the body of fuselage of the airplane, and hence there is a relatively sharp elbow or bend where the scoop connects with the carburetor. At this bend or elbow, the air tends to stratify and produce varying temperatures in the region of the density compensating unit. Again, due to the proximity of the scoop to the engine propeller, turbulence in air flow takes place which results in conditions impossible to duplicate in the air box. Another is the effects resulting from adjustment of the hot air door or damper usually provided to prevent icing in the carburetor. Still another is the pressure effects which take place in turbo supercharged engines at high altitudes. In this case, the turbo supercharger tends to maintain the required pressures (which may be sea level pressure or greater) at the deck or entrance to the carburetor, while at the same time the atmospheric pressure around the regulator and jet system of the carburetor is at an extremely low pressure. This tends to require changes or adjustments in the A. M. C. unit which would not show up in the air box. Thus, inversion and vibration of the carburetor are only a few of the factors to be considered.

U. S. Court of Customs and Patent Appeals

IN RE PINSON

No. 5928. Decided February 6, 1953

[201 F.2d 908; 96 USPQ 414]

1. PATENTABILITY — INVENTION — OBVIOUS DUPLICATION OF ELEMENTS NOT INVENTION.

Held that no invention is involved in a bracelet having three rows of blocks in view of a reference of similar structure having two rows of blocks, since three row bracelets were known to the art and a bracelet similar to appellant's would result from merely attaching together two of the two row bracelets.

2. SAME—PARTICULAR SUBJECT MATTER—EXPANDING WRIST BANDS.

Certain claims to an expansible link bracelet *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 44,517.

AFFIRMED.

Benedict Joffe for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner in finally rejecting, as unpatentable over the prior art, claims 1 to 8, inclusive, those being all of the claims involved in appellant's application for a patent for an alleged invention for "Expanding Wrist Bands."

Claim 8 is considered illustrative of the appealed claims and reads as follows:

8. An expanding wrist band comprising three rows of slining blocks, the middle row of blocks being staggered with respect to those of the outer rows, a link connecting pivotally the end of a block of an odd numbered row to the proximate end of a block of an even numbered row, said links having independent pivotal connections in the end of the blocks of the even numbered row, a helical spring associated with each pivot of a link in the end of a block of the odd numbered row to articulate said blocks in the even and odd numbered rows, said links connecting the blocks of the even numbered rows to the blocks of the odd numbered rows being disposed to each side of the longitudinal axis of the band and in symmetry therewith, the blocks of the even and odd numbered rows being elongated and wider in the middle than at their ends.

The references relied upon by the tribunals of the Patent Office are: Societe Rubel Freres (French), 628,906, July 12, 1927; Augenstein, 2,267,968, December 30, 1941.

The application discloses a wrist band having linear expansibility and flexibility. In the drawing accompanying appellant's application is shown a metal band comprising three rows of hollow blocks which, in a retracted position, are in a side-by-side and staggered relation. Each block of the middle row appears to be connected on each end by a pair of spring-actuated toggle arms, the end of each toggle arm being pivoted to one end of an outside block. A coil spring is housed within the pivot connection and constitutes the spring means referred to above.

The French patent shows an expansion bracelet which was held by the tribunals of the Patent Office, and we believe correctly, to contain three rows of link elements in side-by-side relationship. The outer rows are described as being circular boxes in each of which is arranged a spiral spring with one extremity being fastened to one of the toggle arms and the other joined to other like cross arms connected to the boxes. The direction of the winding of the springs results in bringing the outside elements together.

The patent to Augenstein reveals two rows of link elements connected by what the Board described as toggle arms. The links are elongated and provided with pivots at each end which are actuated by springs. When the bracelet is expanded an outer row of link elements is directed outwardly in a transverse direction from the axis of the bracelet and then inwardly upon stretching the spring beyond its center position.

The Examiner was of the opinion that the claims were unpatentable over the French patent in view of Augenstein. He held that no invention would be required to elongate the outer links of the device

of the French patent to correspond with the links of Augenstein so that an end of each toggle arm would be pivotally connected at an end of an outer link. He further stated that the claims were subject to rejection on the Augenstein reference in view of the French patent where the former showed an expansible bracelet comprising two rows of links connected by toggle arms and actuated by springs at the toggle-link pivots. He held that no invention would be required to modify the Augenstein structure so as to include a third row of spring toggle actuated links by soldering a pair of bracelets together in such a fashion that two rows of links would be soldered side by side with the outer rows of links being symmetrically disposed relative to the longitudinal axis of the bracelet. He reasoned that the two symmetrically soldered links in each case would constitute a single center link having four toggle arms diverging therefrom.

The Board of Appeals, in sustaining the holding of the Examiner, considered only the rejection based on the Augenstein patent in view of the French patent, regarding the other rejection as cumulative.

We have carefully examined the exhibits offered by appellant, his assignments of error, and the arguments advanced in his brief, but are constrained to agree that the decisions below are proper.

[1] It seems to us that the tribunals of the Patent Office were correct in their interpretation of the French patent as showing the concept of an expansible bracelet with three rows of aligned blocks in staggered relation and that in view thereof no invention would be required to modify the expansible link bracelet of Augenstein to include a third row of blocks. As noted above, it was suggested, and we think properly so, that a bracelet similar in all essential particulars to the device fashioned by appellant could be created by soldering the Augenstein bracelet with another of similar construction. Such an act would involve nothing more than uniting the outer blocks into one bracelet with the same blocks in the other bracelet.

We do not believe the difference in the type of springs between appellant's device and that of the Augenstein patent rises to patentable dignity since both seem to have the same retractive effect in their operation.

[2] The decision of the Board of Appeals should be, and is hereby, affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,043,479, G. H. Greiman, Lifting Jack, D. C., W. D. N. Y. (Buffalo), Doc. 5493, *Auto Specialties Mfg. Co.* v. *Ontario Industries, Inc., et al.* Judgment enjoining Ontario Industries, Inc., and dismissing complaint as to defendants Shiro, Sterner, Clark, Apr. 22, 1953.

2,127,079. (See 2,199,276.)

2,199,276, J. A. Barkelj, Intake manifold for internal combustion engines; 2,127,079, same, Inlet manifold for internal combustion engines; Re. 21,177, 2,287,224, same, Internal combustion engine, filed Apr. 15, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15,394–BH, *J. A. Barkelj* v. *Ford Motor Co. et al.*

2,287,224. (See 2,199,276.)

2,348,215, K. Horch, Casing or cover for a handle, filed Apr. 22, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13453, *Konrad Horch* v. *Banner Mfg. Co., Inc., et al.*

2,361,380, V. N. Kalberg, Water insoluble carboxylic acid soap, etc., filed Apr. 22, 1953, D. C. R. I. (Providence), Doc. 1567, *Scientific Oil Compounding Co., Inc.* v. *Alrose Chemical Co., Inc.*

2,563,134, A. Romolt, Handle for luggage, D. C., N. D. Ill. (Chicago), Doc. 53c33, *National Leather Handle Co., Inc.* v. *Marshall Field & Co.* Order on plaintiff's motion to dismiss complaint with prejudice Apr. 1, 1953.

2,580,716, L. Balamuth, Method and Means for removing material from a solid body; 2,632,838, C. L. Caloni, Support for vibratory devices, filed Apr. 16, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13432, *Raytheon Mfg. Co.* v. *Duritron Corp. et al.*

2,591,904, J. C. Zola, Coating compositions and preparation thereof, D. C., S. D. N. Y., Doc. 78/65, *United Lacquer Mfg. Corp.* v. *Maas & Waldstein et al.* Stipulation and order of discontinuance Apr. 15, 1953.

2,628,199, F. A. Lowenheim, Tarnish remover, filed Apr. 17, 1953, D. C., S. D. N. Y., Doc. 84/213, *International Industries & Developments, Inc.* v. *O. N. Coughlan Co., Inc.* Same, filed Apr. 20, 1953, D. C., S. D. Ohio (Cincinnati), Doc. 3160, *International Industries & Developments, Inc.* v. *Farbach Chemical Co., Inc.* Same, D. C., E. D. N. Y. (Brooklyn), Doc. 13445, *International Industries & Developments, Inc.* v. *Beam Products, Inc.*

2,629,100, H. W. Froehlich, Radiant stitched brassière cup and method of making same, filed Apr. 16, 1953, D. C., S. D. N. Y., Doc. 84/183, *Charmfit of Hollywood, Inc.* v. *Wonder-Bra Co. et al.*

2,630,573. (See 2,630,620.)

2,630,620, same, Coated fabric; 2,630,573, H. J. Rand, Heat retaining garment, filed Apr. 22, 1953, D. C., S. D. N. Y., Doc. 84/267, *Deering, Milliken & Co., Inc.* v. *Scher & Feldman, Inc.*

2,632,107, J. Hilkjak, Television antenna, filed Apr. 21, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c987, *Tru-Tronics, Inc.* v. *Certified Distributing Co. et al.*

2,632,838. (See 2,580,716.)

2,633,368, W. Ross, Stabilizer device for vehicles, filed Apr. 16, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c944, *Gyro Skid-Control Co., Inc.* v. *States Development & Mfg. Co. et al.*

2,634,120, Lohr & Carver, Ball control game apparatus, filed Apr. 14, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13417, *Louis Marx & Co.* v. *T. Cohn, Inc.*

Re. 21,177. (See 2,199,276.)

Re. 23,565, Waack & Floeter, Beet harvester, filed Apr. 8, 1953, D. C., E. D. Mich. (Bay City), Doc. 1251, *The Scott Viner Co.* v. *E. V. Waack et al.*

Des. 154,889, T. Stern, Watch hand, D. C., S. D. N. Y., Doc. 60/113, *Jacques Kreisler Mfg. Corp.* v. *Borden Novelty Co.* Consent decree holding patent valid and infringed, defendant enjoined Apr. 20, 1953.

Des. 159,306, F. Warren, Wrist watch case, D. C., S. D. N. Y., Doc. 60/129, *Longines-Wittnauer Watch Co., Inc.* v. *Swiss Radium & Dial Painting Co., Inc., et al.* Consent decree holding patent valid and infringed, defendants enjoined Apr. 20, 1953.

Des. 168,763, T. Prisland, Acoustical correction tile, filed Apr. 13, 1953, D. C., M. D. Ga. (Macon), Doc. 1032, *The Celotex Corp.* v. *Armstrong Cork Co.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 20,065, T. M. 69,900, The Singer Mfg. Co., Family and manufacturing sewing machines and attachments, D. C., S. D. Calif. (Los Angeles), Doc. 12206–WM, *The Singer Mfg. Co. et al.* v. *Sun Vacuum Stores.* Trade-marks held valid and infringed; injunction (notice Apr. 15, 1953).

T. M. 69,900. (See T. M. 20,065.)

T. M. 158,311. (See T. M. 534,631.)

T. M. 407,843, M. Kandel, Misses' and ladies' underwear, namely slips and nightgowns; T. M. 562,115, Pembrooke Lingerie Co., Lingerie, namely nightgowns, slips, D. C., S. D. N. Y., Doc. 83/268, *Pembrooke Lingerie Co., Inc.* v. *Pembrooke Foundations, Inc.* Consent judgment for injunction (notice Apr. 22, 1953).

T. M. 534,631, T. M. 158,311, Universal Battery Co., Electric storage batteries, and parts thereof, filed Apr. 20, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c963, *Universal Battery Co.* v. *The Pure Oil Co.*

T. M. 562,115. (See T. M. 407,843.)

NOTICES

Adjudicated Patents

(C. A. III.) Smith Patent No. 2,457,841, for a freight container, *Held* invalid. *Smith et al.* v. *Dravo Corporation*, 203 F.2d 369; 97 USPQ 98.

(C. A. III.) Smith Patent No. 2,457,842, for a freight container, *Held* invalid. *Id.*

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,544,733, R. E. Graham, Electron camera tube, decided June 3, 1953, claim 3.

Pat. 2,544,735, J. B. Johnson, and K. G. McKay, Electron camera tube, decided June 3, 1953, claims 1, 2, and 4.

Pat. 2,600,566, F. W. Moffett, Jr., Method of heating frozen food packages, decided May 29, 1953, claims 1, 2, 3, and 4.

Disclaimers

2,556,985.—*Hubert T. Sparrow* and *Marvin G. Lindroth*, Minneapolis, Minn. CONTROL APPARATUS FOR INTERNAL-COMBUSTION ENGINES. Patent dated June 12, 1951. Disclaimer filed May 28, 1953, by the assignee, *Minneapolis-Honeywell Regulator Company.*

Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,605,273.—*Leo H. Sommers*, State College, Pa. α,β-DICHLOROETHYLAILANES. Patent dated July 29, 1952. Disclaimer filed May 28, 1953, by the assignee, *Dow Corning Corporation.*

Hereby enters this disclaimer to claims 1 to 4, inclusive, of said patent.

Cancellation Notices

[No. 6040]

Louis Miller, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lerner Bros. Manufacturing Co., Inc., No. 311 West 8th Street, Kansas City 6, Mo., to effect the cancellation of trade-mark registration of Louis Miller, 1199 Broadway, New York, N. Y., No. 354,815, dated February 22, 1938, and the notice of such proceeding sent by registered mail to the said Louis Miller at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Louis Miller, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 16.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

May 18, 1953.

[No. 6003]

Herman P. Knoble, his assigns or legal representatives, take notice:

The Paramount Paper Products Company, of 4401 North 43rd Street, Omaha 11, Nebraska, has filed a petition for cancellation of Trade-Mark Registration No. 351,588 of Herman P. Knoble, of 1429 West 81st Street, Cleveland, Ohio, registered November 2, 1937, and notice of such proceeding has been sent by registered mail to the said Herman P. Knoble at the said address and has been returned by the Post Office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforementioned cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 16.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

May 21, 1953.

[No. 6043]

Perx Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Rayette, Inc., St. Paul, Minnesota, to effect the cancellation of trade-mark registration of Perx Company, 222 West North Bank, Chicago, Illinois, No. 308,101, dated June 6, 1939, and the notice of such proceeding sent by registered mail to the said Perx Company, at the said address having been returned by the Post Office as undeliverable, notice is hereby given that unless said Perx Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 30.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

June 11, 1953.

[No. 6060]

V. Loewer's Gambrinus Brewery Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by August Wagner Breweries, Inc., 605–631 South Front Street, Columbus, Ohio, to effect the cancellation of trade-mark registrations of V. Loewer's Gambrinus Brewery Co., 528–32 West 42nd Street, New York, New York, No. 351,042, dated October 19, 1937 and No. 373,286, dated December 5, 1939 and the notice of such proceeding sent by registered mail to the said V. Loewer's Gambrinus Brewery at the said address having been returned by the Post Office as being undeliverable, notice is hereby given that unless said V. Loewer's Gambrinus Brewery Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 30.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

June 11, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,629,574. Fence Post Extended Wire Supporting Bracket. Patented Feb. 24, 1953. Extended wire fence post supporting bracket includes a continuous strand of wire folded midway of its length to form a mounting loop to be positioned around the upper end of a fence post. The strands of wire extending from the loop are twisted to provide a reinforced arm. Sides of the loop may be fastened to a fence post by staples or ties, and a brace secured to the outer end of the arm and to the post to hold the arm in extended position. Fence wires may be secured at spaced points to the arm by wire ties. (Owner) E. M. Stevens, 505 N. Presa St., San Antonio, Tex. Group 33—49. Reg. No. 50,924.

Pat. 2,627,111. Can Perforator. Patented Feb. 3, 1953. A household tool for perforating partly punched out holes in the tops of sifter cans, such as cleansing powder cans and the like. A round top has a depending flange to fit closely down over the edge of a can. A disc secured to the inner side of the top has spaced spikes, one of which is longer than the others and arranged to fit into punch-out holes in the top of a can. The long spike is used to locate the opener on a can and puncture the first punch-out hole by pressing down on the tool. The other spikes automatically meet the other punch-out holes, and as the tool is pressed downwardly all the holes are perforated. The device cannot slip, and it forms an automatic lock due to the long spike and the flange extending downwardly over the can. May be made of metal, plastic, or the like. (Owner) John McDevitt, 13 East Drive, Marven Gardens, Margate, N. J. Groups 33—51; 39—81; 40. Reg. No. 50,925.

Pat. 2,628,840. Check and Script Protector. Patented Feb. 17, 1953. Combination check book and script protector therefor for personal use by an individual at the time a check is written. The check book has the usual front and rear covers and series of checks and also carries a blotter and a chemical unit. The chemical unit is in the form of an envelope open at its free end and carrying a removable chemical carrier of cardboard or the like. After a check is written and blotted and placed on a supporting surface, the carrier is withdrawn from the envelope and the chemical exposed by lifting a wax paper covering. A finger tip may be rubbed over the chemical surface, and the chemical adhering to the finger tip is then applied with a circular motion to the portion of the check to be protected. Should anyone attempt to alter the protected area, the chemical compound will draw out an excessive amount of ink as the pen touches the paper and blur the writing. (Owner) David J. Williams, 711 W. Lackawanna Ave., Olyphant, Pa. Group 27—82. Reg. No. 50,926.

Pat. 2,625,009. Vacuum Brake for Motor Trucks. Patented Jan. 20, 1953. Vacuum brake system includes operating mechanism for normally maintaining the conventional cam of the braking system of a vehicle in braking position until the engine is started, or until the mechanism is manually adjusted. The mechanism will immediately apply the brakes, should a leak or break occur in the system, and thus prevent the vehicle from being operated with unsafe brakes, since the brakes will not release when the system is not air or vacuum proof. When installed, a rotary valve connected to a foot pedal of the vehicle may be rotated to one position when the engine is running to supply vacuum pressure from the engine into the upper end of a hollow sectional housing to flex a resilient diaphragm upwardly to release the brakes. The valve may be turned to another position to allow air to flow into the housing so that the diaphragm can return to its normal position and permit the brakes to again be automatically applied. A rod slidably mounted in a longitudinal bore in the valve and normally urged outwardly by a spring may be depressed by another foot pedal to close a port through which vacuum pressure and air are supplied to the housing so that the diaphragm will remain immobile in whatever position it may have assumed. (Owner) Charles M. Steely, 226 N. 3d St., Hamburg, Pa. Groups 35—69; 38—31. Reg. No. 50,927.

Pat. 2,622,667. Blowtorch. Patented Dec. 23, 1952. Attachment for a ninety-degree burning torch for quick conversion into a circle-cutting burner without interfering with the flow of gases to the burner. The burner has a hand control valve connected to the supply tanks of the acetylene and oxygen from the valve to the manifold. The attachment connected to the manifold has a conical end similar to the end of the burner tip and a shoulder which seats on a corresponding shoulder in the manifold and prevents mixing of the two gases. A tubular portion with passages extends from the manifold to an annular channel connected to an opening in the manifold. The gases are still separated when they enter the mixing head of the attachment into which the tip is inserted. A collar is seated in a recess in the outer end of the mixing head, and an arm is secured at right angles to the collar. A block slidably mounted on the arm carries a set screw and a supporting leg. To cut a circle, the tip is connected to the attachment and the attachment connected to the manifold. Free end of leg is positioned at center of circle to be cut. The tip is set a distance from the leg equal to the radius of the circle. Rotation of the burner will cut the circle. (Owner) Fred Hinton, Box 1028, Riverbank, Calif. Group 35—42. Reg. No. 50,928.

Pat. 2,290,820. Child's Garment. Patented July 21, 1942. A child's buttonless playsuit or sun suit, adapted to be easily washed and ironed, may be quickly put on a child. Step-in trunks are attached along the front of the waistline to the bottom of a chest portion. Shoulder straps start from the belt and extend from the upper corners of the chest portion, crossing each other at the back, one strap passing through a hole in the other strap. A loop is attached centrally of the upper rear edge of the trunks through which the shoulder straps are tied. The loop is large enough to permit the insertion of at least two fingers to serve as a handle to keep the child under control while dressing him. An inner loop formed by doubling back a portion of the first loop may be opened to increase the length of the first loop as the child grows. (Owner) Mrs. Lee Whipple, 707 St. Cloud St., Rapid City, S. Dak. Group 23—69. Reg. No. 50,929.

Pat. 2,627,131. Fluorescently Illuminated Lamp Shade Structure With Angularly Adjustable Panels. Patented Feb. 3, 1953. Lamp shade equipped with translucent or transparent panels adapted for advertising purposes. The panels consist of one end panel and two side panels which are removably and interchangeably attached to the basic lamp shade structure. The side panels are also articulately mounted, affording varied angular adjustment so that the illumination intensity may be varied in upward, downward, and sidewise directions. The basic lamp shade structure is also provided with electrical fixtures for supporting fluorescent lighting equipment. (Owner) Donald Charlestan, 7535 South Lafayette Ave., Chicago, Ill. Groups 36—51; 39—03. Reg. No. 50,930.

Pat. 2,630,915. Cake Display Package. Patented Mar. 10, 1953. Display container for iced cakes and the like to prevent damage to the cake after it is wrapped. A rectangular piece of cardboard is scored to divide the board into a large central portion and smaller end portions. The cardboard is folded along the scored lines to form a U-shaped support. Each end portion has a slot near the top edge. A resilient cross member is cut lengthwise against the grain of a piece of cardboard to permit arching but resist cracking. The cross member extends over the top of the support in the form of an arch with each end passing downwardly through the slots in the end portions. A transparent wrapper encloses the support and cross member. The cross member prevents the wrapper from touching the top of the cake, while the pressure exerted by the wrapping on the arch of the cross member causes the end portions to spread away from the cake. (Owner) Helen G. Grant, R. F. D. Route 1, Arden, N. C. Groups 26—69; 40. Reg. No. 50,931.

Pat. 2,563,046. Combined Clothes and Dish Washer. Patented Aug. 7, 1951. Convertible washing machine in which either clothes or dishes may be washed. A clothes drum having fluted apertured side walls may be selectively oscillated and rotated to wash and dry clothes. The lower open end of the drum has an inwardly extending annular flange to which the outer ends of a spider are secured. The spider is mounted on an upwardly extending drive spindle. An agitator removably mounted on the spindle has a flat circular bottom plate to rest on the agitator with the outer periphery of the plate abutting the inner periphery of the drum flange. Perforated circular spray pipes are disposed above and below the drum. When it is desired to wash dishes, the agitator is removed and replaced by a foraminous sectional basket assembly for holding dishes, silverware, etc. As the drum is oscillated, water from the pipes is sprayed downwardly and upwardly through the top and bottom of the drum onto the dishes, etc. Blades hinged to the side walls of the drum at spaced points adjacent vertical slots in the side walls are spring-biased into the drum to deflect the sprays to some extent during dish-washing operations, and to yieldingly contact clothes in the drum during clothes-washing operations. (Owner) Ernest Allen Klilin, 4107 W. Michigan St., Battle Creek, Mich. Group 35—81. Reg. No. 50,932.

Pat. 2,627,777. Piano Keyboard. Patented Feb. 10, 1953. A piano keyboard in which all keys are identical in length, width, height, size, and spacing, so that finger stretching is reduced and the chromatic scale may be brushed by both hands to produce smooth chromatic effects. The white keys of a conventional keyboard are cut off in a line even with the ends of the black keys. The black covers are removed from the sharp and flat keys, leaving for all keys identical levers actuating the sound mechanism within the piano. A body member, comprising an elongated arm with its sides tapered longitudinally to provide increased finger clearance between the keys, is attached to the upper surface of each lever. Secured to the lower front end of the arm is a block which abuts the front end of the lever. The keys are long, to allow free movement of performer's fingers from front to rear for changing the ratio of leverages of the keys to regulate expression and volume. All keys may be of one color, or the sharp and flat keys may be painted black. (Owner) John Robbins, P. O. Box 575, Orlando, Fla. Group 30—31—33. Reg. No. 50,933.

United States Government Owned Patents

The following nine patents (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757) are assigned to the United States as represented by the Secretary of Agriculture. Licenses to practice the inventions are issued on a royalty-free, non-exclusive, non-transferable, revocable basis.

Applications for licenses should be addressed to the Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture, Washington 25, D. C.

Pat. 2,599,549. Production of Alpha-Carbalkoxyalkyl Methacrylates. Patented June 10, 1952. Methacrylic esters of hydroxy carboxylic esters are made by pyrolyzing the corresponding alpha-acetoxyisobutyrates at 450°–500° C.

$$CH_3COOC(CH_3)_2COOCRR'COOR'' \quad \text{Pyrolysis} \rightarrow$$

$$CH_3COOH + CH_3{=}C(CH_3)COOCRR'COOR''$$

where R and R' are hydrogen or methyl and R'' is methyl, ethyl, allyl, methallyl, benzyl, tetrahydrofurfuryl or beta-chloroethoxyethyl. The methacrylates obtained are polymerizable, insoluble and infusible resins being obtained from esters in which R'' is unsaturated. Group 28—83. Reg. No. 50,934.

Pat. 2,600,414. Vulcanization of Acrylic Resins. Patented June 17, 1952. Synthetic rubber-like products are produced by copolymerizing a lower alkyl acrylate (80–98%) with methyl vinyl ketone (2–20%) and then vulcanizing the copolymer by compounding and heating with either (a) sulfur, preferably in conjunction with a conventional accelerator, or (b) quinone dioxime and red lead. Acrylic rubbers are outstanding in resistance to heat, oils and greases, oxidation and deterioration by exposure to light, air, or ozone. Group 28—83. Reg. No. 50,935.

Pat. 2,602,789. Ether-Esters of Polyhydroxy Compounds. Patented July 8, 1952. Unsaturated ethers of aliphatic polyhydroxy compounds (allyl starch, allyl sucrose, allyl mannitol, etc.) containing unsubstituted hydroxyl groups are acylated with saturated acylating agents to make ether-esters. Polymerization then yields resins, protective coatings, etc., of improved water resistance. The compounds also have improved solubility and compatibility and are thus more readily formulated and applied as a lacquer, varnish, or printing ink than the non-acylated ethers. Suitable acylating agents include the anhydrides and chlorides of acetic, propionic, butyric, naphthenic, benzoic, adipic, and similar acids, alkyl chloroformates, alkyl and aryl isocyanates, and ketenes. Group 28—11—91. Reg. No. 50,936.

Pat. 2,605,270. Amides of 9,10-Dihydroxystearic Acid. Patented July 29, 1952. N-substituted amides of 9,10-dihydroxystearic acid are made by heating the acid with an alkyl or alkylol amine for 15–30 minutes at 150–250° C. The low melting (95°) and the high melting (130°) isomers of the acid yield amides having similar differences in melting points. When alkylol amines are used in the process, the products are exclusively amides and not amino esters. When longer reaction times are used, some amino esters are formed. The amides, particularly the alkylol amides, are useful as intermediates for wetting and emulsifying agents and as components of high melting waxes. Group 28—80. Reg. No. 50,937.

Pat. 2,606,881. Polymerization of Polyallyl and Polymethallyl Ethers of Polyhydroxy Compounds. Patented Aug. 12, 1952. In the polymerization of polyallyl or polymethallyl ethers of polyhydroxy compounds by "blowing," the rate of polymerization is greatly increased by the presence of an acrylic or methacrylic ester. Suitable ethers include those of glycols, hexoses, hexitols, and disaccharides. Suitable esters include the acrylates and methacrylates of alkyl, alkenyl, aralkyl and heterocyclic alcohols and phenols. Thus, tetrahydrofurfuryl methacrylate, when mixed with an equal weight of allyl sucrose or allyl mannitol, reduced the gelation time when blown with air at 100° C. from 210 and 297 minutes, respectively, to 19 and 21 minutes. Cyclohexyl and isopropoxyethyl acrylates were also highly effective. Group 28—83—89. Reg. No. 50,938.

Pat. 2,608,562. Method of Producing Amides. Patented Aug. 26, 1952. Unsubstituted amides of fatty acids are made by heating the acid with formamide, acetamide or acetyl urea at 180–250° C. In the preferred process the acid together with a slight excess of formamide is heated 30 minutes at 230°. The product is then purified by crystallization from a suitable solvent, such as alcohol or petroleum ether. Group 28—89. Reg. No. 50,939.

Pat. 2,610,196. Esters of Acylated Hydroxycarboxylic Acids. Patented Sept. 9, 1952. This patent is a continuation-in-part of Patent No. 2,518,456. Esters having the formula

$$RCO[OCH(CH_3)CO]_xOR'$$

wherein R and R' are alkyl groups containing 5 to 17 and 2 to 12 carbon atoms, respectively, are made by heating a molar excess (preferably 2 moles or more) of alkyl lactate with a saturated fatty acid in the presence of an esterification catalyst and with removal of water as formed. The reaction product is a mixture of esters including the alkyl fatty acid ester and acylated alkyl lactate and acylated higher polylactates, as well as the preferred product. The lower-boiling esters can be separated by distillation and recycled in the process. The higher-boiling ones are useful plasticizers and for most purposes may be left in the product. The products are useful as plasticizers for polyvinyl chloride-acetate copolymers. Group 28—11—34—89. Reg. No. 50,940.

Pat. 2,613,157. Polymeric Plasticizers. Patented Oct. 7, 1952. Liquid polymers are made by the condensation of phthalic anhydride with an equimolecular amount of an ester of 9,10-dihydroxystearic acid. The latter are obtained by esterifying dihydroxystearic acid with an alkanol or a mono-ether of glycol or diglycol. The condensation reaction is conducted at 200–250° C. until the product begins to thread. The viscous liquid products are suitable as plasticizers for polyvinyl chloride, polyvinyl butyral and ethyl cellulose. Group 28—83—89. Reg. No. 50,941.

Pat. 2,615,914. Alkyl Carbonates of Lactates. Patented Oct. 28, 1952. Lactic acid is esterified with diethylene glycol monoethers and these esters are then acylated with alkyl chloroformates to yield plasticizers having the formula

$$ROOCH(CH_3)COOR'$$

wherein R is an alkyl group and R' is alkoxyethoxyethyl. For suitability as plasticizers, the compounds should have a total of 8 to 24 carbon atoms in the two groups R and R'. If this total is less than 8, the compounds are too volatile, while, if more than 24, their compatibility with most resins is seriously impaired. The esters are compatible with ethyl cellulose and vinyl chloride but not with cellulose acetate. They are especially useful in vinyl chloride resins because of their high efficiency and because of their outstanding low temperature performance. Group 28—83—89. Reg. No. 50,942.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 30, 1953

[VOL. 671. No. 5]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 593,186. The Osborn Manufacturing Company, Cleveland, Ohio. Filed Feb. 28, 1950.

KOREFIL

For Plastic Coated Stranded Brush Bristle Material in Brushes, Particularly Plastic Coated Glass Fiber, Wire, and Cord.

Claims use since Jan. 16, 1950.

Ser. No. 628,834. Universal Packing & Gasket Company, Houston, Tex. Filed Apr. 28, 1952.

UTEX

For Neoprene Sheet, Plant Fiber Sheet, Neoprene Diaphragm Sheet, and Gum Rubber Sheet.

Claims use since Nov. 27, 1950.

Ser. No. 629,290. Crosman Seed Corporation, East Rochester, N. Y. Filed May 7, 1952.

TOWN & COUNTRY

For Grass Seed Mixture.

Claims use since Jan. 6, 1936.

Ser. No. 629,291. Crosman Seed Corporation, East Rochester, N. Y. Filed May 7, 1952.

TOWN HOUSE

For Lawn Seed Mixture.

Claims use since Mar. 20, 1944.

Ser. No. 629,309. George J. Meyer Malt and Grain Corporation, Buffalo, N. Y. Filed May 7, 1952. (Sec. 2f.)

MEYER MALT

Applicant disclaims the word "Malt" apart from the mark as shown.

For Malt in the Form of Germinated Grain.

Claims use since Oct. 25, 1951.

Ser. No. 629,510. Panacalite Pacific, Inc., Los Angeles, Calif. Filed May 10, 1952.

PANA-CRETE

For Expanded Perlite, a Partially Prepared Ore Used in Oil Well Cements.

Claims use since Apr. 2, 1951.

Ser. No. 629,511. Panacalite Pacific, Inc., Los Angeles, Calif. Filed May 10, 1952.

PANA-SEAL

The word "Seal" is disclaimed apart from the mark as shown.

For Expanded Perlite, a Partially Prepared Ore Used as Additives for Oil and Gas Well Drilling Fluids.

Claims use since Mar. 31, 1951.

Ser. No. 635,521. Chicago Vitreous Enamel Product Co., Cicero, Ill. Filed Sept. 20, 1952.

TINTANIUM

No registration rights are claimed for the word "Tint" apart from the mark shown in the drawing.

For Pigmented Fused Glass-Like Ceramic Composition for the Making of Porcelain Enamels and the Like.

Claims use since July 25, 1952.

Ser. No. 637,120. George C. England, Inglewood, Calif. Filed Oct. 24, 1952.

GE

For Live Chinchillas.
Claims use since on or about March 1942.

Ser. No. 637,278. Independent Leather Manufacturing Co., Inc., Gloversville, N. Y. Filed Oct. 28, 1952.

SUEDE-O-PEL

No claim is made to the word "Suede" apart from the mark as shown.
For Water-Repellent and Treated Leather.
Claims use since Aug. 15, 1952.

Ser. No. 638,358. Vertipile, Inc., Lowell, Mass. Filed Nov. 24, 1952.

Verlon

For Fibers Cut to Uniform Lengths.
Claims use since Nov. 30, 1951.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 613,774. Herz Specialty Products, Inc., Long Island City, N. Y. Filed May 11, 1951.

KEWAR

For School Bags, Beach Bags, Fitted and Unfitted Traveling Bags, and Fitted Toilet Cases.
Claims use since January 1927.

Ser. No. 618,829. Elfrieda M. Ziegenhain, Woodside, N. Y. Filed Sept. 14, 1951.

SAFETY $SAVER

The word "Safety" is disclaimed apart from the mark as shown.
For Safety Purses.
Claims use since Aug. 24, 1951.

Ser. No. 624,992. The Baltimore Luggage Company, Baltimore, Md. Filed Feb. 15, 1952.

Lady Delilah

The name "Lady Delilah" is fanciful.
For Luggage Consisting of Suitcases, Over-Night Cases, Wardrobe Cases, Week-End Cases, and Pullman Cases.
Claims use since Jan. 10, 1952.

Ser. No. 636,898. Murray Menschik, doing business under the trade name Joell Manufacturing Co., Brooklyn, N. Y. Filed Oct. 20, 1952.

LUCKY STRIKE

For Fitted Hand Bags.
Claims use since Sept. 15, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 615,844. Metals Disintegrating Company, Inc., Elizabeth, N. J. Filed June 28, 1951.



The color red is disclaimed apart from the mark as shown on the drawing, and the words "Harrison" and "Shot" are disclaimed from registration hereunder apart from the mark as shown.
For Metallic Cleaning Shot for Cleaning, Peening, Tumbling, Cutting, and Abrading.
Claims use since October 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 618,451. Harris-Seybold Company, Cleveland, Ohio. Filed Sept. 6, 1951.

CELLUETCH

For Coating Compositions and Ingredients Thereof Having Selective Water-Attractiveness for Lithographic Surfaces.
Claims use since on or about Jan. 7, 1947.

Ser. No. 625,710. Haugh and Sons Company, Baltimore, Md. Filed Feb. 29, 1952.

SYNTHAD

For Synthetic Granular Bone Char for Use as an Adsorbent for Purifying and Refining Saccharides.
Claims use since on or about Oct. 5, 1950.

Ser. No. 637,725. Irving W. Ruderman, doing business as Larco Nuclear Instrument Company, Palisades Park, N. J. Filed Nov. 6, 1952.

PLASTIFLUOR

For Phosphorescent or Fluorescent Polymers, Copolymers, Synthetic Plastics and Synthetic Resins; Thermoplastic and Thermo-Setting Chemical Preparations Rendered Fluorescent by Incorporation Therein of Fluorescent Chemical Preparations; and Transparent Fluorescent Chemical Preparations for Indicating or Detecting Nuclear Radiation.
Claims use since May 9, 1952.

Ser. No. 640,403. Edward N. Jones, doing business as Southern Oil Chemical Company, Pettus, Tex. Filed Jan. 6, 1953.



The mark comprises a boxing glove on a portion of the forearm of a human being, said boxing glove striking against and breaking up the letters "S" and "C."
For Petroleum for Treating Equipment To Prevent Scale and Corrosion.
Claims use since Feb. 7, 1952.

Ser. No. 644,044. Mathieson Chemical Corporation, Baltimore, Md. Filed Mar. 23, 1953.

BLACKBIRD

For Superfine Sulphur.
Claims use since 1936.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 626,973. Block & Anderson Limited, London, England. Filed Mar. 25, 1952.

Banda

Applicant claims ownership of British Registration No. 617,469, dated Jan. 5, 1942.
For Hectographic Carbon Paper.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 597,746. Alexander J. Ganahl, doing business as Ganahl Company, St. Louis, Mo. Filed May 19, 1950.

AD-A-CAN

The applicant hereby disclaims the word "Can" apart from the mark as shown.
For Columnar Structures in Particular: Metal Segmented Columns Formed of Can-Like Elements.
Claims use since Feb. 1, 1950.

Ser. No. 613,677. Nova Sales Co., Trenton, N. J. Filed May 9, 1951.

NOVASCO

For Water-Proofing Compositions for Admixture With Concrete, Stucco, Mortar, and Plaster, and Liquid Filler Materials for Porous Masonry and Mortar Joints.
Claims use since October 1949.

Ser. No. 615,821. Copco Steel & Engineering Company, Detroit, Mich. Filed June 28, 1951.

Copco

Applicant claims ownership of Registration No. 532,648.
For Medicine Cabinets of Metal for Insertion in a Wall; Residential, Commercial, Industrial, and Utility Windows; Steel Door Frames; Storm Sash and Screens; Fireplace Hearth Ash Disposal Vent Doors; Built-in Type Coal Chutes; Built-in Type Clothes Chute Doors; Built-in Type Milk and Package Receivers; Joist Hangers and Joist Angles.
Claims use since Dec. 1, 1929.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 620,079. Active Tool & Manufacturing Co., Detroit, Mich. Filed Oct. 17, 1951.

ACTIVE

For Sinks.
Claims use since on or about Sept. 28, 1951.

Ser. No. 631,022. Philadelphia Valve Company, Philadelphia, Pa. Filed June 10, 1952.

FLEXI FLANGE

The component "Flange" is disclaimed apart from the mark as shown.
For Pipe Couplings.
Claims use since Oct. 25, 1950.

Ser. No. 632,816. Lenape Hydraulic Pressing & Forging Co., Lenape, Pa. Filed June 25, 1952.

LENAPE
RED MAN PRODUCT

The drawing is lined for red but color is not claimed. The word "Products" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 288,592.

For Repair Sleeves and Weld Sleeves, Boiler Nozzles, Weld Necks, Manhead and Handhole Fittings, Manhole and Handhole Saddles, Manhole and Handhole Rings, Oval and Elliptical Manway Necks, Type R Manways, Studding Outlets, Forged and Pierced Rings and Rolled Rings, All Made of Forged Steel and All Used in Connection With Tanks, Pipes and Pressure Vessels, and Forged Rings of Metal, Rolled Metal Rings, and Pierced Metal Rings for General Use.

Claims use since November 1923.

Ser. No. 635,107. Weather-Seal, Inc., Barberton, Ohio. Filed Sept. 10, 1952.

WEATHER-SEAL

The words "Weather-Seal" are disclaimed apart from the trade-mark as shown in the drawing.

For Construction Kits Comprising Hinges, Side Runs, Pressure Bars, and Springs, for Changing Conventional Sliding Windows Over to Pivotal and Sliding Windows.

Claims use since on or about July 1, 1950.

Ser. No. 636,304. Oley Producta Inc., Inwood, N. Y. Filed Oct. 7, 1952.

For Door Stop, for a Screen and Door Closer.

Claims use since Aug. 1, 1952.

Ser. No. 638,641. Evergrip Products Corporation, New York, N. Y. Filed Nov. 26, 1952.

HANG-all

Applicant disclaims the mark "Hang" apart from the mark as shown.

For Picture Hanging Brackets or Clips.

Claims use since Nov. 20, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 615,860. Chemalloy Foundry Company, Louisiana, Mo. Filed June 6, 1951.

CHEMALLOY

For Aluminum-Alloy Castings.

Claims use since June 1945.

Ser. No. 622,260. Kenmore Metals Corporation, Jersey City, N. J. Filed Dec. 8, 1951.

KENMORE Copperon

Applicant claims ownership of Registration No. 512,059.

For Pre-Coated Metallic Wire and Stripping.

Claims use since Nov. 26, 1951.

Ser. No. 635,324. Rheinische Röhrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany. Filed Sept. 16, 1952.

Applicant claims ownership of German Registration No. 613,906, dated Nov. 14, 1951.

For Metal Plates and Metal Sheets and Metal Tubing Stock.

CLASS 15

OILS AND GREASES

Ser. No. 623,683. Henry A. Schwager, Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich. Filed Jan. 16, 1952.

ReLuco

The drawing is lined for the color red.

For Sealing Compound or Lubricant Which Is Resistant to Solvents, Gasoline, Triptane, Kerosene, Naphtha, Benzene, Petrolic Ether, Fuel Oil, Diesel Oil, Butane, Propane, Iso-Butane, Heptane, Butadiene, Paints, Varnishes, Thinners, Lacquers, Etc.

Claims use since Mar. 22, 1948.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 640,282. Inter-Coastal Paint Corporation, East St. Louis, Ill. Filed Jan. 2, 1953.

INSULITE

For Ready-Mixed Paint.

Claims use since Feb. 18, 1920.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 569,515. The S. Frieder & Sons Company, Cincinnati, Ohio, and Philadelphia, Pa. Filed Nov. 27, 1948. (Sec. 2f.)

QUINTESSA
Excellence

The drawing is lined for the colors blue and yellow. No exclusive claim is made to the words "Par Excellence" apart from the mark as shown.

For Cigars and Cheroots.

Claims use since Feb. 23, 1904.

Ser. No. 629,087. P. J. Carroll & Co. Limited, Dundalk, Ireland, and Liverpool, England. Filed May 2, 1952.

"MICK McQUAID"

The name "Mick McQuaid" is a fictitious one, and the figure is merely an artist's fanciful picture.

For Manufactured Tobacco—Namely, Cigars, Cigarettes, Smoking Tobacco, and Snuff.

Claims use since Jan. 1, 1880; and use in commerce between the United Kingdom and the United States since Apr. 16, 1924.

Ser. No. 640,759. E. Regensburg & Sons, New York, N. Y. Filed Jan. 14, 1953.

CITATION

For Cigars.

Claims use since Oct. 26, 1918.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 591,762. Angier Chemical Company, Boston, Mass., assignor, by mesne assignments, to Angier Chemical Co., Inc., Boston, Mass., a corporation of Massachusetts. Filed Feb. 1, 1950. (Sec. 2f.)

Angier

Applicant claims ownership of Registrations Nos. 24,051, 152,115, and 507,814.

For Medical Preparations for Use in the Treatment of Coughs and Irritations of the Throat and Bronchial Tubes Resulting From Colds, Bronchitis, the Inhalation of Smoke, Gas, and Dust and Other Respiratory Conditions; Emulsion of Refined Petroleum Used as a Mild Laxative and as an Internal and External Medicant in the Treatment of Infections of the Throat, Lungs, and Other Accessible Mucous Membranes; Throat Tablets and Tablet-Form Emollients and Medicants for Throat Areas; Medical Liquid Preparations for Use in the Adjunctive Treatment of Iron Deficiency, Hyperchronic Anemias, Anorexia, and Debility; Rectal Suppositories for Use in the Treatment of Hay Fever and Asthma; and Therapeutic Agents for the Treatment of Skin Diseases.

Claims use since Oct. 2, 1947.

Ser. No. 600,444. The Panray Corp., New York, N. Y. Filed July 10, 1950.

PANOSINE

For Drugs and Tablets Designed To Relieve Muscular Tension.

Claims use since Apr. 15, 1950.

Ser. No. 609,824. Viking Laboratories, Inc., Des Moines, Iowa. Filed Feb. 8, 1951.

VIKING
VIK-COL

For Liquid Mineral Feed Supplement for Horses, Hogs, Cattle, Sheep, and Poultry.

Claims use since Jan. 3, 1951.

Ser. No. 618,520. Doho Chemical Corporation, New York, N. Y., assignee of Dr. Walter von Horst. Filed Aug. 16, 1951.

SYNBIOTIC

For Antibiotic Preparation for the Treatment of Diseases of the Blood Stream and Digestive Tract.

Claims use since Oct. 3, 1950.

Ser. No. 620,565. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,575 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

CENTRI-VAC

For Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water.
Claims use since May 24, 1943.

Ser. No. 620,569. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,579 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

TRANSFUSO-VAC

For Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water, and Dextrose, Sodium Citrate, and Citric Acid in Water.
Claims use since Aug. 15, 1939.

Ser. No. 620,570. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,581 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

TRINIDEX

For Solutions Containing Vitamins or Constituents Thereof and Solutions for Parenteral Therapy Containing Synthesized Constituents of Vitamin B-Complex.
Claims use since Dec. 4, 1942.

Ser. No. 620,574. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,583 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

VACOLITER

For Solutions for Parenteral Use Comprising: Various Concentrations of Hydrolyzed Protein in Water; Various Concentrations of Dextrose in Water; Various Concentrations of Dextrose and Sodium Chloride in Water; Various Concentrations of Sodium Chloride in Water; Various Concentrations of Dextrose in Vitamins in Water; Various Concentrations of Dextrose With Sodium Chloride and Vitamins in Water; Various Concentrations of Dextrose and Alcohol With Sodium Chloride and Vitamins in Water; Various Concentrations of Dextrose and Alcohol With Vitamins in Water; Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Various Concentrations of Dextrose With Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Sodium r-Lactate, Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Sodium r-Lactate in Water; Various Concentrations of Dextrose and Alcohol With Sodium Chloride in Water; Various Concentrations of Dextrose and Alcohol in Water; Various Concentrations of Procaine Hydrochloride, U. S. P.; Water for Injection, U. S. P.; Dextrose, Sodium Lactate, Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Potassium Chloride, Sodium Chloride, Sodium Lactate in Water; Oxypolygelatin in Normal Saline in Water; Potassium Chloride and Dextrose in Water; Various Concentrations of Invert Sugar With Sodium Chloride in Water; Various Concentrations of Invert Sugar in Water; Histamine Phosphate and Sodium Chloride in Water; Ammonium Chloride With Sodium Chloride in Water; Ammonium Chloride in Water.
Claims use since June 22, 1931.

Ser. No. 620,575. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,565 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Centri-Vac

For Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water.
Claims use since July 2, 1940.

Ser. No. 620,579. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,569 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Transfuso Vac

For Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water, and Dextrose, Sodium Citrate, and Citric Acid in Water.
Claims use since Oct. 3, 1938.

Ser. No. 620,581. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,570 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Trinidex

For Fluids for Parenteral Use Comprising Solutions Containing Vitamins or Constituents Thereof and Solutions for Parenteral Therapy Containing Synthesized Constituents of Vitamin B-Complex.
Claims use since Oct. 27, 1942.

Ser. No. 620,583. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,574 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Vacoliter

For Fluids for Parenteral Use Comprising Water for Injection; Dextrose in Water; Dextrose and Sodium Chloride in Water; Sodium Chloride in Water; Dextrose and Vitamins in Water; Dextrose, Sodium Chloride, and Vitamins in Water; Dextrose, Alcohol, Sodium Chloride, and Vitamins in Water; Dextrose, Alcohol, and Vitamins in Water; Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Dextrose, Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Sodium r-Lactate in Water; Sodium r-Lactate, Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Sodium r-Lactate, Sodium Chloride, Potassium Chloride, Calcium Chloride, and Dextrose in Water; Dextrose, Alcohol, and Sodium Chloride in Water; Dextrose and Alcohol in Water; Hydrolyzed Protein in Water; Acacia and Sodium Chloride in Water; Acacia, Dextrose, and Sodium Chloride in Water; Invert Sugar in Water; Histamine Diphosphate and Potassium Chloride in Water; Histamine Diphosphate and Sodium Chloride in Water; Sodium Sulfate in Water; Sterile Non-Pyrogenic Distilled Water Used as a Diluent for Parenteral Injection Solutions; Invert Sugar and Sodium Chloride in Water; Sodium Chloride, Potassium Chloride, Calcium Chloride, Magnesium Chloride in Water; Dextrose, Sodium Chloride, Potassium Chloride in Water; Potassium Chloride, Sodium Chloride and Sodium r-Lactate in Water; and Sodium Bicarbonate in Water.
Claims use since January 1933.

Ser. No. 629,173. Merck & Co. Inc., Rahway, N. J. Filed May 3, 1952.

TROBENYL

For Therapeutic Substance of Use as an Anti-Histaminic, Anti-Spasmodic, and Relaxant.
Claims use since Mar. 29, 1952.

Ser. No. 630,404. Paul F. W. Henning, Chicago, Ill. Filed May 29, 1952.



For Antidote for Alcoholism or Fatigue in Tablet Form.
Claims use since Apr. 23, 1952.

Ser. No. 632,450. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed July 11, 1952.

TALSUTIN

For Preparation for Use in the Treatment of Diarrheas, in Ulcerative Colitis and Bacillary Dysentery, and in Sterilising the Intestinal Tract for Preoperative and Postoperative Prophylaxis in Abdominal Surgery.
Claims use since June 18, 1952.

Ser. No. 635,420. Joseph H. Isenstead, Canajoharie, N. Y. Filed Sept. 18, 1952.

PRONOR

For Liver Extract, Insulin, Spleen Preparation for the Treatment of Liver Disorders.
Claims use since Aug. 19, 1952.

Ser. No. 636,687. Chicago Pharmacal Company, Chicago, Ill. Filed Oct. 16, 1952.

GERISED

For Medicinal Preparation in Tablet Form Used as a Urinary Sedative in the Palliative Treatment of Prostatitis.
Claims use since Dec. 4, 1944.

Ser. No. 637,032. Ernst Bischoff Co., Incorporated, sometimes called Ernst Bischoff Co., Inc., and Ernst Bischoff Company, Inc., Ivoryton, Conn. Filed Oct. 23, 1952.

Bi-Co-Tussin

Applicant claims ownership of Registration No. 75,353.
For Medicine or Pharmaceutical Preparation in the Nature of a Palatable Cough Remedy for Use in the Symptomatic Treatment of Cough.
Claims use since Sept. 18, 1952.

Ser. No. 637,033. Carlo Erba S. P. A., Milan, Italy. Filed Oct. 23, 1952.

TIZIDE

Applicant claims ownership of Italian Registration No. 108,138, dated June 21, 1952.
For Antitubercular Compositions.

Ser. No. 637,058. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

DURYCIN

Applicant claims ownership of Registration No. 524,119.
For Medicinal Preparation of Penicillin and Dihydrostreptomycin Used in the Treatment of Bacterial Infections.
Claims use since Nov. 19, 1951.

Ser. No. 637,403. Schenley Laboratories, Inc., New York, N. Y. Filed Oct. 30, 1952.

BPS-32

For Antibiotic Feed Supplements.
Claims use since Mar. 20, 1952.

Ser. No. 639,320. Eli Lilly and Company, Indianapolis, Ind. Filed Dec. 11, 1952.

TYLOSTERONE

For Medicinal Preparation of Diethylstilbestrol and Methyltestosterone Used in the Treatment of Various Medical Conditions, Including Menopausal Symptoms.
Claims use since Jan. 15, 1951.

Ser. No. 640,884. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. Filed Feb. 24, 1951.

Adrianol

Applicant claims ownership of German Registration No. 349,664, dated Mar. 20, 1926.
For Drug Used in the Treatment of Rhinitis.

CLASS 19

VEHICLES

Ser. No. 582,301. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")

1870 BFG B.F.Goodrich

Applicant claims ownership of Registrations Nos. 400,232, 64,996, and others.
For Automotive Vehicle Seat Covers, Automotive Vehicle Brakes, and Resilient Supports Containing Rubber or Rubbery Resilient Materials for Automotive Vehicles.
Claims use since December 1948.

Ser. No. 616,199. Bronco Rubber Products Co., Los Angeles, Calif. Filed July 7, 1951.

BRONCO

For Industrial Wheels Made of Metal and Having Solid Rubber Tires Molded Thereon, Said Wheels Adapted for Use on Material Handling Trucks and Dollies, Hand Trucks, Industrial Trailers, and Four-Wheel Platform Trucks.
Claims use since Sept. 15, 1947.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 602,407. Keystone Silver Inc., New York, N. Y. Filed Aug. 18, 1950.

Perk-O-Matic

The term "Perk" is disclaimed apart from the mark as shown.
For Electric Coffee Percolators.
Claims use since May 1, 1950.

Ser. No. 625,555. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed Feb. 26, 1952. (Sec. 2f.)

CONTROLITE

For Electric Illumination Control Dimmers and Switchboards Used in Theaters or the Like.
Claims use since July 21, 1925.

Ser. No. 632,941. Joy Manufacturing Company, Pittsburgh, Pa. Filed July 23, 1952.

JOY

For Molded Rubber and/or Synthetic Rubber Covered Electric Power and Communication Connectors; Controllers for Electric Motors for Effecting Starting, Stopping, Reversing, and Speed Changes Thereof; Electric Resistors; Cable Repair Vulcanizers Incorporating Electric Heating Elements; Solenoid Operated Track Switch Throwers; Carbon Resistance Heaters for Brazing and Soldering; Mine Signal Lights and Switches; and Electrical Power Distribution and Control Apparatus Including Various Ones of the Following Items: Circuit Breakers and Auxiliaries (Including Under-Voltage Release, Shunt Trip, Auxiliary Switch, and Ground Trip), Relays, Transformers, Ground Fault Detector Coils, Rectifiers, Condensers, Resistors, Conductors, Cables, Connectors, Contactors and Line Starters, Switches and Push Buttons, and Indicating Lights and Meters.
Claims use since at least as early as February 1929.

Ser. No. 639,323. Essex Wire Corporation, Detroit, Mich. Filed Dec. 11, 1952.

Copperhead wire and cable

For Electric Wire Harnesses.
Claims use since on or about Aug. 25, 1952.

Ser. No. 640,592. Weiger Weed & Company, Detroit, Mich. Filed Jan. 9, 1953. (Sec. 2f.)

WEIGER-WEED

Applicant claims ownership of Registration No. 545,568.
For Non-Consumable Resistance Welding Tips or Electrodes, Spot Welding Tips, Seam Welding Wheels, Bushings for Seam Welder Shafts, Welding Dies, and Welding Electrode or Tip Holders.
Claims use since on or about Mar. 2, 1946.

Ser. No. 640,732. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Jan. 14, 1953.

CARBOTECTIC

For Electrodes for Heating and Welding Purposes.
Claims use since Jan. 7, 1953.

Ser. No. 640,795. Walter G. Legge Company, Inc., New York, N. Y. Filed Jan. 15, 1953.

SAFESTAT

For Grounding Devices Adapted To Be Attached to Equipment for the Prevention of Shock to Operators Due to Static Electricity.
Claims use since Dec. 22, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 631,069. Shakespeare Company, Kalamazoo, Mich. Application filed, act of 1946, Supplemental Register, June 11, 1952; amended to application, Principal Register, Apr. 20, 1953. (Sec. 2f as to "Shakespeare.")

Direct Drive by Shakespeare

Applicant disclaims the words "Direct Drive by" apart from the mark shown without, however, disclaiming any common law rights therein acquired by the applicant. Applicant claims ownership of Registration No. 359,879.
For Fishing Reels.
Claims use since June 1, 1950.

Ser. No. 633,529. Brainerd Bait Co., St. Paul, Minn. Filed Aug. 6, 1952.

Guide

For Artificial Bait—Namely, a Spoon.
Claims use since Sept. 5, 1947.

Ser. No. 641,831. Character Novelty Co., South Norwalk, Conn. Filed Feb. 6, 1953.

"ACAPILE"

For Stuffed Toys.
Claims use since Dec. 17, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 549,941. New Jersey Machine Corporation, Hoboken, N. J. Filed Feb. 17, 1948. (Sec. 2f.)

LABEL-DRI

For Labeling Machines.
Claims use since Nov. 2, 1945.

Ser. No. 607,275. SKF Industries, Inc., Philadelphia, Pa. Filed Dec. 12, 1950. (Sec. 2f.)

HESS-BRIGHT

Applicant claims ownership of Registration No. 139,079.
For Anti-Friction Ball and Roller Bearings.
Claims use since Oct. 6, 1950.

Ser. No. 612,824. H. K. Porter, Inc., Somerville, Mass. Filed Apr. 18, 1951.

HKP

For Single-Hand Cutting-Off Metal Working Tools—Namely, Rod, Bolt, Wire, and Sheet Cutters.
Claims use since in about 1927 as to the letters "HKP"; and in about 1941 as to the mark shown.

Ser. No. 616,233. Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England. Filed July 9, 1951.

KEELAVITE

For Hydraulic Pumps, Motors, and Rams and Parts Thereof, Hydraulic Power Transmission Systems and Parts Thereof.
Claims use since February 1935; and use in commerce between foreign nations and the United States in August 1936.

Ser. No. 616,408. Charles Budd Corporation, New Rochelle, N. Y., assignor, by mesne assignments, to The Custanite Corporation, Westchester County, N. Y. Filed July 13, 1951.

CUSTANITE SPRING-FLO

For Soft Hammers.
Claims use since June 15, 1951.

Ser. No. 617,108. R. H. Corbett & Co. Limited, Burgess Hill, England. Filed July 30, 1951.

HYDRUM

Applicant claims ownership of British Registration No. 672,001, dated Aug. 18, 1948.
For Apparatus or Machines Operated Hydraulically or by Other Power for Lifting Heavy Objects.

Ser. No. 617,299. Walter Kidde & Company, Inc., Belleville, N. J. Filed Aug. 3, 1951..

SUPERWINTERIZED

For Portable Fire Extinguishers.
Claims use since on or about July 20, 1951.

Ser. No. 620,709. Yates-American Machine Company, Beloit, Wis. Filed Oct. 30, 1951.



Applicant claims ownership of Registrations Nos. 290,319 and 547,301.
For Radiators for Internal Combustion Engines.
Claims use since Oct. 1, 1948.

Ser. No. 621,267. Indestro Manufacturing Corp., Chicago, Ill. Filed Nov. 15, 1951.

INDESTRO

Applicant claims ownership of Registrations Nos. 229,445 and 156,066.
For Socket Wrenches, Socket Wrench Sets, Socket Wrench Kits Comprising Containers and Sets of Wrenches, Hollow Head Set Screw Wrenches and Sets Thereof, Stud Wrenches, Wrench Sockets, Universal Joint Sockets, Wrench Handles, Wrench Speeders, Wrench Speeder Handles, Wrench Spinners, Wrench Adapters, Ratchet Wrenches, Wrench Universal Joints, Wrench Extensions, Swing Head Handles, Open End Wrenches, Open End Wrench Sets, Box End Wrenches, Box End Wrench Sets, Obstruction End Wrenches, Obstruction End Wrench Sets, Combination Box Open End Wrenches, Combination Box Open End Wrench Sets, Adjustable Wrenches, Flare Nut Wrenches, Tube End Flarers and Tube Cutters; Sets of Assorted Tools for Automotive Vehicle Maintenance and Repair—Namely, Tappet Wrenches and General Purpose Wrenches and Screw Drivers and Pliers and Hammers and Mallets and Chisels and Rivet Busters, Reamers, Offset Screw Drivers, Screw Driver Blades, Screw Driver Handles, Screw Driver Adapters, Screw Driver Sets, Tension Indicating Wrenches and Sweep Extensions for Use Therewith; Spark Plug and Other Ignition Tools—Namely, Wrenches and Pliers and Files and Screw Drivers and Spark Testing Screw Drivers; Roll-Away Tool Containing Cabinets Sold Along With the Tools They Contain; Tool Containing Chests Sold Along With the Tools They Contain, Tool Containing Trays Sold Along With the Tools They Contain, Tool Containing Rolls Sold Along With the Tools They Contain, Tool Supporting Boards Sold Along With the Tools They Support, Display Cards Sold Along With the Tools Displayed Thereon, Valve Grinders, Valve Reseaters, Screw Extractors, Punches, Chisel and Punch Sets, Pry Bars, Hammers, Pliers, Valve Lifters, Valve Grinding Tools, Battery Terminal Lifters, Screw Driver Clips, Battery Lifters, Drain Plug Wrenches, Drain Plug Sockets for Use With Wrenches; Car Body and Fender Tools—Namely, Dinging Hammers and Bumping Hammers and Mallets and Flexible Files and Flexible File Holders and Metal Conforming Spoons, Flange Tools, and Dollies; Brake Tools—Namely, Brake Spring Pliers and Brake Lining Riveters and Star Nut Adjusters and Specially Shaped Wrenches; Piston Ring Tools—Namely, Piston Ring Inserters and Piston Ring Compressors and Piston Ring Cleaners of the Blade or Scraper Type, and Piston Ring Skids; Carbon Scrapers, General Purpose Scrapers; Tire Valve Tools—Namely, Instruments for Unseating Tire Valves and Removing and Replacing Valve Cores and Tire Valve Stem Threaders; Rim and Tire Tools—Namely, Rim Wrenches, Cross Rim Wrenches, and Tire Spreaders and Tire Irons of the Spoon Type and the Blade Type; Bushing Drivers—Namely, Bushing Punches and Collars Cooperating With Those Punches; Snips, Wheel Pullers, Hub Pullers, Gear Pullers, Carburetor Jet Wrenches, Gasket Cutting Punches, Broken Glass Removing Tools in the Nature of Specially Shaped Pry Bars, Bars for Facilitating Spring Lubrication, Hacksaw Frames, Hacksaw Blades, V-Type Pulleys, Grease Rams, Spring Lubricators in the Nature of Devices Which Are Forced Between Spring Leaves To Separate Them and Which Serve as Conduits for Grease Forced to the Separated Leaves, Link Separators, Tube Flarers, and Tube Cutters.
Claims use since June 13, 1922.

Ser. No. 622,071. The Dorr Company, Stamford, Conn. Filed Dec. 4, 1951.

VACTROL

For Centrifugal Machinery for Segregating in a Cyclone Fractions of Liquid Fed Thereto.
Claims use since Sept. 28, 1951.

Ser. No. 630,290. U. S. Electrical Motors, Inc., Los Angeles, Calif. Filed May 26, 1952.

Orifeed

For Oil Lubricated Gear Transmission Mechanisms.
Claims use since Apr. 28, 1952.

Ser. No. 631,537. The Jeffrey Manufacturing Company, Columbus, Ohio. Filed June 21, 1952.

PERMALIFE

For Chain Sprockets Made of Cast Iron and Like Material.
Claims use since May 23, 1952.

Ser. No. 631,737. Nordberg Manufacturing Company, Milwaukee, Wis. Filed June 25, 1952.



For Internal Combustion Engines.
Claims use since Jan. 1, 1952.

Ser. No. 634,672. A. R. Wilfley and Sons, Inc., Denver, Colo. Filed Aug. 29, 1952. (Sec. 2f as to "Wilfley.")



The words "Centrifugal Pumps" are hereby disclaimed apart from the trade-mark as shown. Applicant claims ownership of Registrations Nos. 300,105 and 317,377.
For Centrifugal Pumps and Parts Thereof.
Claims use since March 1920.

Ser. No. 634,673. A. R. Wilfley and Sons, Inc., Denver, Colo. Filed Aug. 29, 1952. (Sec. 2f as to "Wilfley.")



Applicant claims ownership of Registration No. 317,377.
For Centrifugal Pumps and Parts Thereof.
Claims use since 1920.

Ser. No. 634,674. A. R. Wilfley and Sons, Inc., Denver, Colo. Filed Aug. 29, 1952. (Sec. 2f as to "Wilfley.")



Applicant claims ownership of Registration No. 317,377.
For Centrifugal Pumps and Parts Thereof.
Claims use since during the year 1920.

Ser. No. 639,683. Whitinsville Spinning Ring Company, Whitinsville, Mass. Filed Dec. 17, 1952.



Applicant disclaims the right to exclusive use of the word "Finish" apart from the mark as shown. Applicant claims ownership of Registration No. 86,751.
For Spinning and Twister Rings.
Claims use since December 1911.

Ser. No. 642,079. The Lauson Company, New Holstein, Wis. Filed Feb. 11, 1953. (Sec. 2f.)

LAUSON

Applicant claims ownership of Registration No. 390,055.
For Internal Combustion Engines for Industrial and Marine Use and Outboard Motors and Parts Therefor.
Claims use since on or about Aug. 10, 1916.

Ser. No. 642,080. The Lauson Company, New Holstein, Wis. Filed Feb. 11, 1953. (Sec. 2f as to "Lauson.")



Applicant claims ownership of Registration No. 390,055.
For Internal Combustion Engines for Industrial and Marine Use and Parts Therefor.
Claims use since on or about Aug. 10, 1916, as to "Lauson"; and since June 13, 1952, as to the mark shown.

Ser. No. 642,468. Mary A. Halligan, doing business as Halligan Tool Company, New York, N. Y. Filed Feb. 19, 1953.

Hugh A. Halligan

The name "Hugh A. Halligan" is the name of a particular living individual whose consent is of record.
For Forcible Entry Tool, Used by Firemen, in the Nature of an Axe To Force Open Doors and the Like.
Claims use since Dec. 1, 1947.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 624,499. Pressing Supply Company, Philadelphia, Pa. Filed Feb. 4, 1952.

SPEED-WAY

For Ironing Board Pads and Ironing Board Pad Covers.
Claims use since July 23, 1951.

Ser. No. 627,660. American Machine and Metals, Inc., New York, N. Y. Filed Apr. 7, 1952.

FULLMATIC

For Laundry Machinery—Namely, Washers, Extractors, Presses, Ironers, and Tumblers.
Claims use since Nov. 13, 1950.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 615,711. The Kalart Company Inc., Plainville, Conn. Filed June 26, 1951. (Sec. 2f.)

CRAIG

The lining on the drawing shows shading only, no color being claimed.

For Photographic Attachments and Accessories—Namely, Film Editors, Film Spliicers, Film Winders for Use in Connection With Film Editors, and Carrying Cases Specifically Designed To Carry Film Editors.

Claims use since September 1930.

Ser. No. 617,862. The Camera-Mart, Inc., New York, N. Y. Filed Aug. 20, 1951.

CAMART

For Cameras; Camera Dollies and Parts Thereof—Namely, Tripods and Boom Arms, Sold as a Unit; Camera Tripods; Prismatic Lenses for Motion Picture Cameras; Camera Mounts, Commonly Known as Hi-Hat Camera Mounts; Lens Extension Tubes; and Motion Picture Cameras and Parts Thereof—Namely, Electrical Synchronous Motors and Soundproof Housings Therefor Known as Blimps, Sold as a Unit.

Claims use since Feb. 2, 1950.

Ser. No. 629,429. Fish-Schurman Corporation, New Rochelle, N. Y. Filed May 9, 1952.

FS

Applicant claims ownership of Registrations Nos. 347,810 and 350,801.

For Lens Blanks, Lenses, Color Screens, Filters, Prisms, and Reflectors, All for Optical, Photographic, Projection, and Scientific Use; Microscope Cover Glass, Sungoggle Glasses, and Viscosimeters.

Claims use since Nov. 13, 1936.

Ser. No. 630,981. American Cyanamid Company, New York, N. Y. Filed June 10, 1952.

ACCOGEL

For Machine Which Forms a Gelatin Film and Forms, Measures and Fills the Gelatin Capsules Therefrom.

Claims use since May 13, 1952.

Ser. No. 631,501. The Sheffield Corporation, Dayton, Ohio. Filed June 20, 1952.

PLUNJET

For Sensing Head Adapted for Contact With an Object To Be Gauged, for Use With Comparator for Indicator Gages.

Claims use since May 30, 1950.

Ser. No. 633,125. Scientific Glass Apparatus Co. Inc., Bloomfield, N. J. Filed July 26, 1952.

ADJUSTATHERM

For Assemblies Consisting of a Thermometer and an Adapter for Mounting the Thermometer in the Neck of a Vessel and Adapters for Use in Such Assemblies.

Claims use since July 8, 1952.

Ser. No. 638,469. Broadcast Music, Inc., New York, N. Y. Filed Nov. 22, 1952.

MUSICATOR

For Calibrated Rule for Locating Passages on Mechanically Grooved Phonograph Records.

Claims use since Nov. 3, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 633,440. John C. Wells, Lakewood, Ohio. Filed Aug. 2, 1952.

UTILIBRUSH

For Paint Brushes.

Claims use since June 27, 1952.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 639,516. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Ceramic Articles—Namely, Tea Pots, Coffee Pots, Mustard Pots, Bean Pots, Stew Pots, Cups, Saucers, Plates, Platters, Soup Dishes, Bowls, Mugs, Dessert Dishes, Casseroles, Tureens, Pitchers, Creamers, Cruets, Hors d'Oeuvre Sets, Baking Dishes, Baking Shells, Pipkins, Petite Marmites, Salt and Pepper Holders, Jugs, and Jars.

Claims use since 1932.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 611,242. Servel, Inc., Evansville, Ind., and New York, N. Y. Filed Mar. 13, 1951.

Applicant claims ownership of Registrations Nos. 271,324 and 322,092.

For Refrigerators, Refrigerator Parts, Automatic Refrigerating Parts, and Refrigerating Systems, for the Preservation of Foodstuffs and Like Purposes.

Claims use since 1929.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 586,612. Acme Venetian Blind Mfg. Co., Inc., Chicago, Ill. Filed Oct. 21, 1949.

Sun Master

The representation of the goods is disclaimed apart from the mark as shown.

For Venetian Blinds.

Claims use since on or about Apr. 1, 1938.

Ser. No. 623,112. Miller and Rhoads, Incorporated, Richmond, Va. Filed Dec. 10, 1951. (Sec. 2f.)

THE SHOPPING CENTER

Applicant claims ownership of Registration No. 544,790.

For Bedroom Suites and Open-Stock Pieces Therefor—Namely, Beds, Chests of Drawers, Dressers, Night Tables, Vanities, Vanity Benches, Wardrobes and Chiffoniers; Chaise Longues and Ottomans; Cedar Chests; Dining Room Suites and Open-Stock Pieces Therefor—Namely, Tables, Buffets, Credenzas, Chairs, Cabinets, Servers, China Closets, Cupboards and Hutches; Dinette Suites and Separate Pieces Therefor—Namely, Tables, Buffets, Credenzas, Chairs, Cabinets, Servers, China Closets, Cupboards, Hutches and Benches; Rocking Chairs; Sofas and Love Seats; Upholstered Dual Purpose Sleeping Equipment—Namely, Studio Couches, Sofa Beds, Love Seats, Chairs, Davenports Which Open Into Beds, and Suites of These Articles With One or More Chairs; Living Room Tables—Namely, Cocktail, End, Coffee, Gate-Leg, Lamp, Dropleaf, Tables Made of Wood, Glass, Plastic; Non-Folding Rigid Bridge Tables and Complete Rigid Bridge Sets; Desks, Secretaries and Breakfronts; Living Room Novelty Furniture—Namely, Smokers, Cellarettes, Magazine Racks, Bookcases, Record Cabinets, Sewing Cabinets, Telephone Sets, Costumers and Stools, Portable and Stationary Bars, Bar Stools and Bar Benches; Kitchen and Utility Cabinets, Kitchen Tables, Chairs, and Stools—Namely, Kitchen Cabinets, Kitchen Tables, Kitchen Chairs, Kitchen Stools, Utility Cabinets, Kitchen Step Stools, Electric Roaster Base Cabinets, Sink Cabinet Bases Without Plumbing, Bathroom Stools and Chairs; Furniture for Outdoor Use and Bridge Tables—Namely, Chairs, Rockers, Tables, Settees, Glliders, Collapsible Folding Chairs, Adirondack Chairs, Rustic Chairs, All Folding Bridge Tables, Folding Bridge Chairs, and Combinations of Bridge Tables and Chairs; Garden and Beach Umbrellas; Sun Parlor Furniture, Including Suites and Open Stock Pieces—Namely, Chairs, Tables, Sofas, Settees, Chaise Longues; Juvenile Furniture, Including Suites and Open Stock Pieces—Namely, Bassinets, Cribs, Play Yards, Chests, Dressers, Chifforobes, High Chairs, Bathinettes, Nursery Seats, Juvenile Tables, Chairs, and Rockers; Unfinished Furniture—Namely, Unfinished Kitchen Sets, Tables, Chairs, Bookcases, Chests, Dressers, Beds, Magazine Racks, and Record Cabinets; Mattresses, Springs, and Bed Headboards — Namely, Mattresses, Springs, Box Springs, Rubber Mattresses, Upholstered and Nonupholstered Headboards of All Types and Materials, Box Springs on Legs, Set Combinations of a Matching Mattress and Box Springs on Legs, Mirrors, Both Framed and Unframed, Utility Cabinets and Headboard Sets.

Claims use since April 1917.

Ser. No. 626,329. Thomas Jefferson Memorial Foundation, Incorporated, Charlottesville, Va. Filed Mar. 12, 1952.

JEFFERSON REPRODUCTION

1779

FROM THE HOME OF Thomas Jefferson

All wording except the facsimile signature of Thomas Jefferson is disclaimed apart from the mark as shown on the drawing. The facsimile signature is that of Thomas Jefferson, the third President of the United States.

For Chests of Drawers, Wardrobes, Tables, and Chairs.

Claims use since Dec. 1, 1951.

Ser. No. 632,696. Sherer-Gillett Company, Marshall, Mich. Filed July 17, 1952. (Sec. 2f.)

SHERER

Applicant claims ownership of Registration No. 124,886.

For Display Counters, Self-Service Food Counters, and Combination Display and Self-Service Food Counters.

Claims use since September 1946 as to the mark shown; and since April 1894 as to "Sherer."

Ser. No. 640,613. Convoy, Incorporated, Canton, Ohio. Filed Jan. 12, 1953.



For Filing Cases.
Claims use since on or about July 3, 1950.

CLASS 33

GLASSWARE

Ser. No. 639,518. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Drinking Glasses and Tumblers, Luncheon Sets, Bowls, Ovenware and Fireproof Cooking Ware, Tableware, Tray Sets, Decanters, Cruets, Stemware, Salt and Pepper Shakers, and Vases All Made of Glass.
Claims use since 1932.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 633,546. Laminated Shim Company, Incorporated, Glenbrook, Conn. Filed Aug. 6, 1952.

LAMISOL

Applicant claims ownership of Registration No. 344,377.
For Shims.
Claims use since July 3, 1952.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 559,920. Gold Rain Recording Company, Detroit, Mich. Filed June 22, 1948.



The words "Gold-Rain Recording Co. Detroit, Mich. . . For Home Use Only" and "Recording Co." are disclaimed apart from the mark as shown.
For Grooved Phonograph Records.
Claims use since June 17, 1948.

Ser. No. 623,115. Miller and Rhoads, Incorporated, Richmond, Va. Filed Dec. 10, 1951. (Sec. 2f.)

THE SHOPPING CENTER

Applicant claims ownership of Registration No. 344,796.
For Phonographs and Recorders of the Grooved Phonograph Type.
Claims use since June 1930.

Ser. No. 637,701. Columbia Records Inc., Bridgeport, Conn. Filed Nov. 6, 1952.

ENTRE

For Grooved Phonograph Records.
Claims use since Oct. 3, 1952.

Ser. No. 639,470. The Gramophone Company Limited, Hayes, Middlesex, England. Filed Dec. 15, 1952.



The representation of a phonograph record is disclaimed apart from the mark as shown. Applicant claims ownership of British Registration No. 218,490, dated Nov. 15, 1898.
For Grooved Phonograph Records.

CLASS 37

PAPER AND STATIONERY

Ser. No. 603,045. Columbian Art Works, Inc., Milwaukee, Wis. Filed Sept. 1, 1950.

POCKET-BANKER

For Combination Check, Deposit, and Expenditure Account Book.
Claims use since June 1, 1941.

Ser. No. 622,734. Binney & Smith Company, New York, N. Y. Filed Dec. 21, 1951.

B&S

Applicant claims ownership of Registrations Nos. 96,236 and 37,013.
For Chalk Crayon.
Claims use since 1915.

Ser. No. 625,208. Markwell Manufacturing Co., Inc., New York, N. Y. Filed Feb. 19, 1952. (Sec. 2f.)

MARKWELL

Applicant claims ownership of Registration No. 310,921.
For Fountain Pens.
Claims use since July 1925.

Ser. No. 628,286. Mid-States Gummed Paper Co., Chicago, Ill. Filed Apr. 18, 1952.

Mid-States
REALLY FLAT

No claim is made to the words "Really Flat" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 253,312, 161,551, and others.
For Gummed Papers in Sheets.
Claims use since Jan. 1, 1923.

Ser. No. 628,987. American Art Clay Company, Indianapolis, Ind. Filed May 1, 1952.

AMACO

Applicant claims ownership of Registrations Nos. 285,067 and 343,479.
For Crayons, Including Specifically Both Chalk Crayons and Wax Crayons in Various Colors and Grades.
Claims use since 1934.

Ser. No. 630,877. Carey Press Corporation, New York, N. Y. Filed June 7, 1952. (Sec. 2f.)

The Ready Reference

For Diaries.
Claims use since Dec. 1, 1921.

Ser. No. 637,363. The Cromwell Paper Company, Chicago, Ill. Filed Oct. 30, 1952.

FLEX-FIBRE

The word "Fibre" is disclaimed apart from the mark as shown in the drawing.
For Embossed Laminated Waterproof Paper Reinforced With Asphalt and Glass Fiber for Use in Packaging.
Claims use since Sept. 12, 1952.

Ser. No. 637,633. Horii Toshado Kabushiki-Kaisha, Chiyoda-ku, Tokyo, Japan. Filed Nov. 4, 1952.

MYRIAGRAPH

Applicant claims ownership of Japanese Registration No. 48,070, dated Sept. 12, 1911, and United States Registration No. 214,087.
For Stencil Sheets and Stencil Papers.

Ser. No. 637,634. Horii Toshado Kabushiki-Kaisha, Chiyoda-ku, Tokyo, Japan. Filed Nov. 4, 1952.

MYRIATYPE

Applicant claims ownership of Japanese Registration No. 144,990, dated May 11, 1922.
For Stencil Sheets and Stencil Papers.

Ser. No. 639,545. American Paper & Pulp Co., Inc., New York, N. Y. Filed Dec. 16, 1952.

AMPA

For Bond Paper.
Claims use since Nov. 19, 1952.

Ser. No. 639,677. Union Bag & Paper Corporation, New York, N. Y. Filed Dec. 17, 1952.

SCUTAN

Applicant claims ownership of Registrations Nos. 241,415 and 363,838.
For Water and Weather Proof Paper To Be Used for Wrapping and for Containers Such as Bags, Envelopes, and the Like.
Claims use since Mar. 14, 1927.

Ser. No. 639,684. Windsor Pen Corp., New York, N. Y. Filed Dec. 17, 1952.

PRINCETON

For Fountain Pens, Ball Point Pens, Mechanical Pencils, and Combinations Thereof in Sets.
Claims use since on or about Nov. 21, 1952.

Ser. No. 640,090. Weyerhaeuser Timber Company, Tacoma, Wash. Filed Dec. 27, 1952.

WEYER-VEE

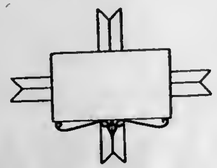
For Kraft Container Board.
Claims use since Oct. 20, 1952.

Ser. No. 640,153. Ferber Corporation, Englewood, N. J. Filed Dec. 30, 1952.

"The WRITE Line to Goodwill"

For Ball Point Pens, Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets.
Claims use since Sept. 17, 1952.

Ser. No. 640,508. Fort Howard Paper Company, Green Bay, Wis. Filed Jan. 8, 1953.



For Paper Napkins.
Claims use since May 14, 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 614,010. Howard W. Sams & Co., Inc., Indianapolis, Ind. Filed May 17, 1951.

PF INDEX
AND TECHNICAL DIGEST

The words "Index and Technical Digest" are disclaimed.
For Publication Published Periodically.
Claims use since Jan. 31, 1951.

Ser. No. 632,055. United Printers and Publishers (Incorporated), doing business under the name Rust Craft Publishers, Boston, Mass. Filed July 1, 1952. (Sec. 2f.)

Greeting Cards of Character

No claim is made to the exclusive right to the use of the words "Greeting Cards" apart from the mark shown. Applicant claims ownership of Registration No. 341,828.
For Greeting Cards.
Claims use since 1935.

Ser. No. 634,796. Metropolitan Label Co., Brooklyn, N. Y. Filed Sept. 3, 1952.



The word "Labels" is disclaimed apart from the mark as shown. The drawing is lined for the color red, but no claim is made to color.
For Printed Cloth and Paper Labels and Printed Paper Tags.
Claims use since October 1930.

Ser. No. 636,080. Byron Jackson Co., Los Angeles, Calif. Filed Oct. 2, 1952.

BY-JAC NEWS

No claim is made for the word "News" as appearing in said trade-mark.
For Monthly Publication, Containing Items Principally of Interest to Applicant's Employees.
Claims use since on or about Dec. 15, 1941.

Ser. No. 637,076. Paramount Publishing Company, Charlotte, N. C. Filed Oct. 23, 1952.

PARAMOUNT

For Tax Computation Booklets Published Annually.
Claims use since Oct. 15, 1952.

Ser. No. 637,392. The New Yorker Magazine, Inc., New York, N. Y. Filed Oct. 30, 1952.

THE NEW ARMY

No claim is made to the word "Army" apart from the mark as shown.
For Magazine Column.
Claims use since Jan. 5, 1952.

Ser. No. 638,018. Stanley D. Smith, doing business as Gift House, Aberdeen, S. Dak. Filed Nov. 13, 1952.

Gift House

For Trading or Merchandise Stamps.
Claims use since May 13, 1952.

Ser. No. 638,783. The Sporting News Publishing Company, Inc., St. Louis, Mo. Filed Nov. 29, 1952.

PIGSKIN PETE Picks

For Newspaper Columns.
Claims use since October 1946.

Ser. No. 639,395. Russ Cunningham, Chicago, Ill. Filed Dec. 12, 1952.

Chore Savers

For Periodically Issued Series of Radio Scripts Sold as Such.
Claims use since Aug. 30, 1952.

Ser. No. 639,782. The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y. Filed Dec. 19, 1952.



IRON & BRASS CHIPS

The representation of the man is not that of any particular individual.
For Periodical in the Nature of an Employee's Magazine Published From Time to Time.
Claims use since June 6, 1944.

Ser. No. 640,750. National Plumbing Stores Corp., Columbus, Ohio. Filed Jan. 14, 1953.

PLANALOG

For Semi-Yearly Periodical Publication in the Form of Catalogs Sold to Accounts.
Claims use since Mar. 1, 1951.

Ser. No. 640,899. American Colortype Company, Chicago, Ill., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania. Filed Jan. 19, 1953.

colorful LIVING

For Periodical Publication.
Claims use since Dec. 8, 1952.

Ser. No. 641,455. Magazine Publishers, Inc., Chicago, Ill. Filed Jan. 28, 1953.

STEVIE

For Comic Magazines.
Claims use since October 1952.

CLASS 39

CLOTHING

Ser. No. 530,184. Franklin Dress Co., Inc., Chicago, Ill. Filed Aug. 1, 1947.

Franklin

For Women's Dresses and Suits.
Claims use since August 1923.

Ser. No. 575,934. Shoe Corporation of America, Columbus, Ohio. Filed Mar. 23, 1949.

LAZY PALS

For Shoes for Men, Women, and Children.
Claims use since Jan. 21, 1949.

Ser. No. 600,441. Merrimac Hat Corporation, New York, N. Y., and Amesbury, Mass. Filed July 10, 1950. (Sec. 2f as to "Merrimac.")



For Men's, Women's, and Children's Hats and Hat Bodies of Felt and Fur.
Claims use since June 1, 1950, on the mark as shown; and since 1856 on the word "Merrimac."

Ser. No. 605,150. Engel Mills, New York, N. Y. Filed Oct. 19, 1950.

TRYENGEL

Applicant claims ownership of Registration No. 149,668.
For Clothing for Men—Namely, Undershirts, Hosiery, Outer Shirts, T Shirts, Handkerchiefs, Neckties, Shoes, Hats, and Outer Suits; Clothing for Babies—Namely, Diapers and Hosiery; Clothing for Boys—Namely, Shorts, Undershirts, Hosiery and Pajamas; Clothing for Ladies—Namely, Pants, Hosiery, Outer Shirts, Blouses, Bed Jackets, Handkerchiefs, Smocks, Dresses, Trench Coats, House Coats, and Blouses; Clothing for Girls—Namely, Dresses, Blouses, and Pants.
Claims use since 1921.

Ser. No. 613,374. I. B. Kleinert Rubber Company, New York, N. Y. Filed May 1, 1951.

Pucker-Purties

For the purpose of this registration applicant hereby disclaims the word "Pucker" apart from its use as shown in the mark.
For Women's Panties.
Claims use since March 1951.

Ser. No. 617,308. Mutual Buying Syndicate, Inc., New York, N. Y. Filed Aug. 3, 1951.

Sharon

For Ladies' Hosiery.
Claims use since Jan. 20, 1950.

Ser. No. 620,597. Gem Rubber Corporation, New York, N. Y. Filed Oct. 29, 1951.

Gemflex

For Toe Rubbers, Heel Strip Rubbers, and Half Rubbers.
Claims use since April 1950.

Ser. No. 620,844. Forstmann Woolen Company, Passaic, N. J. Filed Nov. 3, 1951. (Sec. 2f.)

FORSTMANN

The drawing is lined to represent the colors red and black. Applicant also disclaims the color as part of the mark. Applicant claims ownership of Registrations Nos. 432,786, 408,577, 409,420, and 520,220.
For Men's, Women's, and Children's Knitted Apparel—Namely, Sweaters, Jackets, Stockings, Socks, and Scarves.
Claims use since June 23, 1943, as to the mark shown; and in the year 1904 as to the mark "Forstmann."

Ser. No. 620,845. Forstmann Woolen Company, Passaic, N. J. Filed Nov. 3, 1951. (Sec. 2f.)

QUALITY CRAFTSMANSHIP STYLE

FORSTMANN WOOLENS

The drawing is lined to represent the colors red and black. The words "Quality," "Craftsmanship," "Style," and "Woolens" are disclaimed apart from the mark shown on the drawing. Applicant also disclaims the color as part of the mark. Applicant claims ownership of Registrations Nos. 432,786, 408,577, 409,420, and 520,220.
For Men's, Women's, and Children's Knitted Apparel—Namely, Sweaters, Jackets, Stockings, Socks, and Scarves.
Claims use since Oct. 1, 1945, as to the mark shown, and in the year 1904 as to the mark "Forstmann."

Ser. No. 620,935. Supreme Pants Co., Inc., New York, N. Y. Filed Nov. 6, 1951.

Super Togs

The words "Super Togs" are hereby disclaimed apart from the mark as shown.
For Boys' Pants.
Claims use since Oct. 18, 1951.

Ser. No. 620,965. David Ingram, Detroit, Mich. Filed Nov. 7, 1951.

The UPPER DOWNER

For Men's and Women's Hats and Caps.
Claims use since Jan. 5, 1949.

Ser. No. 621,841. Sapphire Corporation, New York, N. Y. Filed Nov. 29, 1951.



No claim is made to the words "Short," "Average," and "Long," apart from the mark as shown.
For Women's Hosiery.
Claims use since July 11, 1951.

Ser. No. 623,504. James H. Dunham & Co., New York, N. Y. Filed Jan. 12, 1952.

PUNJAB PATCH-PAK

No claim is made to the exclusive use of the words "Patch-Pak" apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 101,674, 263,994, and 287,579.
For Fabric or Fabrics Made of Cotton, Linen, Silk, or Synthetic Fibers, Either Alone or in Combination Cut in Predetermined Forms for Arrangement in Accordance With Instructions To Form Casual and Beach Jackets and Sport Shirts for Men, Women, Boys, and Girls, and Smocks, Skirts, and Blouses for Women and Girls.
Claims use since Dec. 12, 1951.

Ser. No. 623,566. Summit Mills Corporation, New York, N. Y. Filed Jan. 14, 1952.

Mister-Ease

For Men's Sport Shirts.
Claims use since Dec. 26, 1951.

Ser. No. 623,636. Hardwick Woolen Mills, Inc., Cleveland, Tenn. Filed Jan. 16, 1952. (Sec. 2f.)

HARDWICK

For Men's, Cadets', and Boys' Suits, Topcoats, Sport Coats, and Slacks.
Claims use since Dec. 29, 1926.

Ser. No. 624,764. Star Knitting Company, Lacrosse, Wis. Filed Feb. 9, 1952.

Merri-Frances

The name "Merri-Frances" is fanciful.
For Women's and Children's Blouses.
Claims use since Dec. 30, 1949.

Ser. No. 628,167. Pincus Bros. Incorporated, Philadelphia, Pa. Filed Apr. 16, 1952.

University Town

For Men's and Boys' Suits, Sportcoats, Slacks, Topcoats, Vests, and Overcoats.
Claims use since Oct. 1, 1937.

Ser. No. 628,741. Jess A. Brewer, Danville, Ill. Filed Apr. 26, 1952.

WING DING

For Gloves for Industrial and Sports Purposes and Made of Flexible Wear-Resistant Material.
Claims use since Feb. 7, 1952.

Ser. No. 629,117. Paj Manufacturing Co., Los Angeles, Calif. Filed May 2, 1952.

Sun-Breaker

For Outer Shirts Intended for Use of Men, Women, Boys, and Girls.
Claims use since Mar. 10, 1952.

Ser. No. 630,992. Davenport Hosiery Mills, Inc., Chattanooga, Tenn. Filed June 10, 1952.

Davenfit

Applicant claims ownership of Registration No. 358,341.
For Hosiery for Women and Girls.
Claims use since on or about Feb. 22, 1952.

Ser. No. 632,820. Anquin Company, Lehighton, Pa. Filed July 21, 1952.

Anquin

For Women's Full Fashioned Hosiery.
Claims use since Apr. 1, 1952.

Ser. No. 633,848. Lonsheln-Saqqal, Inc., New York, N. Y. Filed Aug. 13, 1952.

MADISON ROBES

The words "Madison Robes" are disclaimed apart from the mark as shown on the drawing.
For Robes, Housecoats, Pajamas, and Negligees for the Use of Women.
Claims use since June 1, 1952.

Ser. No. 636,540. A. Sagner's Son, Baltimore, Md. Filed Oct. 11, 1952.

SurfaceWeave

The word "Weave" is disclaimed apart from the mark as shown in the drawing.
For Men's Suits, Coats, Slacks, Trousers, Topcoats, Sport Coats, Neckties, Sport, Dress, and Work Shirts; Women's Suits, Coats, Slacks, Jackets, and Skirts.
Claims use since August 1951.

Ser. No. 636,739. Roth Silk Undergarment Co., Inc., New York, N. Y. Filed Oct. 16, 1952.

Nylosatin

For Women's and Misses' Slips, Petticoats, and Nightgowns.
Claims use since Oct. 1, 1952.

Ser. No. 636,747. Southern Knitwear Mills, Inc., Charlotte, N. C. Filed Oct. 16, 1952.

TOG-ABOUT

The word "Tog" is disclaimed apart from the word combination "Tog-About."
For Children's Knitwear—Namely, Polo Shirts, Creepers, Coats, Sweaters, and Bootie Sets.
Claims use since June 1952.

Ser. No. 636,871. Arkay Junior Frocks, Inc., New York, N. Y. Filed Oct. 20, 1952.

Madeleine Fauth

The written consent of Madeleine Fauth, a living individual whose name comprises the trade-mark, is of record.
For Women's and Misses' Dresses, Petticoats, Underwear, and Sport Clothes — Namely, Skirts, Blouses, Sweaters, and Vests.
Claims use since Jan. 29, 1946.

Ser. No. 636,920. Bonwit Teller, Inc., New York, N. Y. Filed Oct. 21, 1952.

bontell

Applicant claims ownership of Registrations Nos. 87,519, 87,722, and 87,844.
For Corsets, Gloves of Leather, Fabric, and Combinations Thereof, Pajamas, Negligees, Petticoats, Blouses, All for Ladies, Misses, and Girls; Infants', Children's, Misses', and Ladies' Dresses, Robes, and Night-Dresses; Mufflers, Hosiery, and Underwear for Ladies, Misses, and Children.
Claims use since in or about August 1911.

Ser. No. 637,670. Texas Dress Corporation, Dallas, Tex. Filed Nov. 5, 1952.

PAT PRANK of Dallas

The trade-mark "Pat Prank" is fanciful. The words "of Dallas" are disclaimed apart from the trade-mark as shown on the drawing. The lining in the trade-mark on the drawing is for shading purposes.
For Women's and Children's Dresses, Blouses, Skirts, and Jackets.
Claims use since May 1, 1952.

Ser. No. 637,749. Betty Brooks Co., Huntington Park, Calif. Filed Nov. 7, 1952. (Sec. 2f.)

J.J. MacIntyre

For Men's and Boys' Sweat Shirts, Sweat Pants, Gym Shirts, Gym Shorts, T Shirts, Swimming Trunks, Athletic Shirts, Athletic Pants, Sport Shorts, and Leisure Shorts.
Claims use since Jan. 15, 1947.

Ser. No. 637,978. George Adams, New York, N. Y. Filed Nov. 13, 1952.

CHANNEL SWIMMER

For Bathing Caps, Bathing Suits, and Bathing Slippers for Men, Women, Boys, and Girls Made of Rubber and of Waterproofed Textiles.
Claims use since on or about Oct. 22, 1952.

Ser. No. 639,200. Summit Sportswear Company, Boston, Mass. Filed Dec. 8, 1952.

YANKEE WALKER

The drawing is lined for red and green.
For Skirts for Women and Girls.
Claims use since June 1, 1952.

Ser. No. 639,757. Kangol Wear Limited, Cumberland, England. Filed Dec. 19, 1952.

KANGOL

Applicant claims ownership of Registration No. 535,357.
For Berets.
Claims use since Jan. 1, 1938, in Great Britain; and since May 1, 1946, in commerce between Great Britain and the United States.

Ser. No. 639,867. The Bernhard Altmann Texas Corporation, San Antonio, Tex. Filed Dec. 22, 1952.

Bernadale

For Men's and Women's Sweaters.
Claims use since November 1952.

Ser. No. 639,962. Spurgeon Hosiery Corporation, Philadelphia, Pa. Filed Dec. 23, 1952.

CLOSE-UP

For Ladies' Hosiery.
Claims use since Aug. 1, 1951.

Ser. No. 640,098. Lew S. Blaustein, Rockville Center, N. Y. Filed Dec. 29, 1952.

Kay Bentley

The name "Kay Bentley" is fanciful.
For Dresses for the Use of Women.
Claims use since Apr. 25, 1952.

Ser. No. 640,169. Rand Rubber Company, Inc., Brooklyn, N. Y. Filed Dec. 30, 1952. (Sec. 2f.)

VALUE

For Water Repellent Baby Pants.
Claims use since Oct. 28, 1947.

Ser. No. 640,198. Empire Imports, Inc., New York, N. Y. Filed Dec. 31, 1952.

Heatherton INDEPENDENT

Applicant claims ownership of Registration No. 511,235.
For Ladies' Sweaters, Skirts, Jackets, Blouses, Dresses, Hose Anklets, Scarves, Hats, and Gloves of Leather or Fabric or a Combination Thereof.
Claims use since Oct. 10, 1952.

Ser. No. 640,201. Feinrider Bros., New York, N. Y. Filed Dec. 31, 1952. (Sec. 2f.)

CLASSIFIED FASHION by Feinrider

The word "Fashion" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 509,524.
For Ladies' Dresses.
Claims use since Mar. 19, 1945.

Ser. No. 641,709. Morton Brown, New York, N. Y. Filed Feb. 4, 1953.

TOP SECRET

Applicant claims ownership of Registration No. 331,961.
For Ladies' and Misses' Slips.
Claims use since May 20, 1952.

Ser. No. 641,925. Henro Blouse Corporation, New York, N. Y. Filed Feb. 9, 1953.

MARION HAGEN

The name "Marion Hagen" is fanciful.
For Ladies' Blouses, Skirts, and Sport Shorts.
Claims use since Sept. 17, 1951.

Ser. No. 642,148. The La Resista Corset Company, Bridgeport, Conn. Filed Feb. 12, 1953.

Tres SEA Crete

Applicant claims ownership of Registration No. 344,066.
For Brassières, Ladies' Foundation Undergarments, and Ladies' Bathing Suits.
Claims use since on or about Feb. 6, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 606,405. Leo Lammertz, Aachen, Germany. Filed Nov. 2, 1950.



Priority under Sec. 44(d). German application No. L 546/9c, filed May 8, 1950; Registration No. 608,611, dated June 30, 1951.
For Hand Sewing Needles—Namely, Darning Needles, Bodkins, Billard Needles, Chenille Needles, Triple-Edge Needles Straight and Curved, Lace Needles, Garnishing Needles, Gimp Needles, Upholstery Needles, Sac Needles, Harness Needles, Weaving Needles, Turning-Off Needles, Tapestry Needles, Tambour Needles and Tambour Hooks, Embroidery Needles, Crochet Needles, Pique Needles, Beading Needles, Threading Needles and Self-Threading Needles, Furrier's Needles, Milliner's Needles, Sheet Fastening Needles, and Bookbinders' Sheet Fastening Needles.

Ser. No. 618,788. Flower Fame, New York, N. Y. Filed Sept. 14, 1951.



Applicant disclaims the word "Flower" apart from the mark as shown on the drawing.
For Artificial Flowers and Feathers in the Nature of Trimmings for Clothing or for Millinery Purposes.
Claims use since October 1950.

Ser. No. 625,505. Vonett Sales Corporation, doing business as Vonett Sales Company, Los Angeles, Calif. Filed Feb. 25, 1952.

hollywood sleepers

The word "Hollywood" is disclaimed apart from the mark as shown.
For Non-Electrical Hair Curlers.
Claims use since July 1, 1951.

Ser. No. 639,887. I. B. Kleinert Rubber Company, New York, N. Y. Filed Dec. 22, 1952.

CHLOROSHIELD

For Dress Shields.
Claims use since Oct. 9, 1952.

Ser. No. 640,000. I. B. Kleinert Rubber Company, New York, N. Y. Filed Dec. 24, 1952.

JIFFYSHIELDS

For Dress Shields Attached to a Portion of a Sleeve, and Dress Shields.
Claims use since Dec. 1, 1952.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 635,460. Brooks, Inc., Washington, D. C. Filed Sept. 19, 1952.

Rain-beau

The word "Rain" is disclaimed apart from the mark as shown.
For Umbrellas.
Claims use since Jan. 16, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 559,261. Wawak Company, Inc., Chicago, Ill. Filed June 15, 1948. CONCURRENT USE with Reg. No. 405,760, for the area comprising the entire United States, except the States of New York, Connecticut, Rhode Island, and New Jersey.

VICTORIA

For Woolen Piece Goods.
Claims use since Feb. 1, 1928.

Ser. No. 603,845. Home Specialty Co., Chicago, Ill. Filed Sept. 21, 1950.

PRIDE OF THE HOME

For Window and Shower Curtains, Draperies, and Textile Rugs, and Cotton and Rayon Fabrics, Including Curtain and Drapery Materials.
Claims use since Aug. 23, 1950.

Ser. No. 615,947. Space-Maid, Inc., New York, N. Y. Filed June 30, 1951.

"Flexipad"

For Table Top Protectors Made of Textile Padding and Also of Flexible Padded Plastic Film.
Claims use since May 2, 1951.

Ser. No. 618,513. Sherman Manufacturing Company, Sherman, Tex. Filed Sept. 7, 1951. (Sec. 2f.)

(SHERMAN)

For Cotton Duck.
Claims use since 1909.

Ser. No. 618,816. Riverdale Manufacturing Co., Inc., New York, N. Y. Filed Sept. 14, 1951.

"STAIRWAY AT AUVERS"



Applicant disclaims the wording "Smart Homemakers . . . Live With" apart from the mark shown on the drawing.
For Draperies—Namely, Window and Shower Curtains, Curtains for Doorways.
Claims use since Mar. 6, 1951, on the mark as shown; and since 1929 on the word "Riverdale."

Ser. No. 619,972. Independent Wholesale Dry Goods Association, Inc., New York, N. Y. Filed Oct. 13, 1951. CERTIFICATION MARK.



No claim is made to the word "Loom" apart from the mark as shown. The drawing is lined for black, gold, and red. Applicant claims ownership of Registration No. 296,135.
For Cotton, Rayon, Linen, and Silk Piece Goods, and Sheets, Pillow Cases, Mattress Pads, Mattress Covers, Bed Spreads, Curtains, and Towels Made of Said Piece Goods.
Claims use since Nov. 14, 1931.

Ser. No. 629,762. Joseph Bancroft & Sons Co., Wilmington, Del. Filed May 16, 1952.

EVERYWEARABLE

For Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof.
Claims use since Apr. 23, 1952.

Ser. No. 630,766. David Crystal, Inc., New York, N. Y. Filed June 5, 1952.

ALPACALIN

For Silk Piece Goods and Rayon Piece Goods.
Claims use since March 1952.

Ser. No. 631,705. White Brothers, Inc., Winchendon Springs, Mass. Filed June 24, 1952.



The drawing is lined for shading purposes. The word "Mills" is disclaimed apart from the mark as shown. The portrait shown is that of Lord Nelson. Applicant claims ownership of Registration No. 81,186.
For Cotton Piece Goods.
Claims use since Jan. 1, 1880.

Ser. No. 633,923. Deering, Milliken & Co., Inc., New York, N. Y. Filed Aug. 14, 1952.

LANAVAR

For Textile Fabrics Made Wholly of Wool and in Substantial Part of Wool Combined With Cotton and/or Synthetic Fibers.
Claims use since June 30, 1952.

Ser. No. 639,523. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

Applicant claims ownership of Registration No. 272,528.
For Bath Towels; Bath Mats; Dish Towels; Wash Cloths; Doilies; Bed Sheets; Bed Spreads; Blankets; Textile, Braided, and Looped Carpets and Rugs; Table Cloths, Window Curtains; Shower Curtains; Draperies; Cotton, Linen, Rayon, and Woolen Fabrics by the Piece; Pillow Cases; and Auto Robes.
Claims use since 1932.

Ser. No. 641,163. Joseph Bancroft & Sons Co., Wilmington, Del. Filed Jan. 23, 1953.

CIMOTA

For Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof.
Claims use since Jan. 8, 1953.

Ser. No. 641,202. Normandie Bedspread Co., New York, N. Y. Filed Jan. 23, 1953.

For... INDEPENDENCE

For Bedspreads.
Claims use since Mar. 11, 1952.

Ser. No. 641,265. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga. Filed Jan. 26, 1953.

Barwick Imperial

No claim is made to "Barwick" apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 555,526.
For Tufted Pile Carpeting.
Claims use since on or about Dec. 15, 1952.

Ser. No. 641,274. Collins & Aikman Corporation, Philadelphia, Pa. Filed Jan. 26, 1953.

C&A

Applicant claims ownership of Registrations Nos. 90,510 and 510,247.
For Fabrics in the Piece and in Cut Lengths, Wholly of Worsted and Worsted Blended With Synthetic Fibers.
Claims use since Jan. 2, 1953.

Ser. No. 641,428. Botany Mills, Inc., Passaic, N. J. Filed Jan. 28, 1953.

GRANAIRE

For Woolen Piece Goods.
Claims use since Oct. 24, 1952.

Ser. No. 641,530. U. S. Fabrics, Inc., New York, N. Y. Filed Jan. 29, 1953.

COCOANUT

For Textile Fabrics of Cotton, Wool, and Synthetic Fibers.
Claims use since on or about Oct. 10, 1952.

Ser. No. 641,531. U. S. Fabrics, Inc., New York, N. Y. Filed Jan. 29, 1953.

MADASHAN

For Textile Fabrics of Cotton, Wool, and Synthetic Fibers.
Claims use since on or about Nov. 6, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 642,445. S. H. Kress and Company, New York, N. Y. Filed Feb. 9, 1953.

BONITA

Applicant claims ownership of Registrations Nos. 295,299, 303,552, and others.
For Thread and Yarn.
Claims use since Feb. 10, 1932.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,564. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,576 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

CENTRI-VAC

For Apparatus for Use in the Transfusion of Blood, and the Preparation of Liquid Constituents Thereof, Comprising Especially Evacuated Containers With Special Stoppers To Permit Entry of the Blood Into Said Containers, and To Withdraw the Same, and for Container Dispensers for Parenteral Fluids.
Claims use since Feb. 24, 1941.

Ser. No. 620,576. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Ser. No. 620,564 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso, Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Centri-Vac

For Closure-Equipped Bottles for Use in the Transfusion of Blood and the Collecting, Separating, Handling, Storing and Dispensing of the Fluid Portion Thereof, and for Container Dispensers for Parenteral Fluids.
Claims use since July 2, 1940.

Ser. No. 625,393. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Feb. 23, 1952. CONCURRENT USE with Ser. No. 626,141 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

TRANSFUSO

For Container Maintained Under Vacuum and a Donor Set for Use Therewith, Consisting of a Valve Having a Tube Communicating With the Interior of the Container and a Tube Leading Therefrom and Having a Hollow Needle Connected to the End Thereof, and a Wrench for Operating the Valve.
Claims use since May 5, 1939.

Ser. No. 626,141. Don Baxter, Inc., Glendale, Calif. Filed Mar. 8, 1952. CONCURRENT USE with Ser. No. 625,393 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in Texas, and in the Hawaiian Islands and Alaska.

TRANSFUSO

For Blood Donor Set Consisting of a Valve Having a Tube for Communication With a Blood Container, a Hollow Needle, and a Second Tube Connecting Said Valve and Said Needle.
Claims use since June 1, 1940.

Ser. No. 632,284. Ayerst, McKenna & Harrison Limited, New York, N. Y. Filed July 9, 1952.

The "DUKE" University INHALER

No claim is made to the word "Inhaler." Consent to use and register the mark shown in the drawing has been given by Duke University, of Durham, North Carolina.
For Inhaler for Use With Anesthetics.
Claims use since June 19, 1952.

Ser. No. 641,993. Trix Distributors, Inc., Seattle, Wash. Filed Feb. 9, 1953.

the LITTLE **gripper**

For Tweezers for Toilet Use.
Claims use since on or about Jan. 23, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 597,203. General Bottlers, Inc., Chicago, Ill. Filed May 10, 1950.



Applicant claims ownership of Registrations Nos. 380,380 and 514,975.
For Bottled Carbonated Soft Drink Beverages.
Claims use since July 2, 1947, as to the mark shown, and since Aug. 6, 1940, as to the mark "Hi-Q."

Ser. No. 601,984. Samuel H. Ellison, doing business as V C Juice Co., Lakeland, Fla. Filed Aug. 9, 1950.

V C

No claim is made to the letter "C" apart from the mark as shown.
For Frozen Concentrated Orangeade.
Claims use since July 3, 1950.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 557,504. The Colorado Milling & Elevator Co., Denver, Colo., doing business as the Monte Vista Flour Mills Co., Monte Vista, Colo. Filed May 21, 1948. CONCURRENT USE with Reg. No. 223,720, for the area comprising the States of Washington, Oregon, California, Arizona, Nevada, Idaho, Utah, Montana, Wyoming, Nebraska, New Mexico, North Dakota, South Dakota, Oklahoma, Texas, Colorado, Minnesota, Iowa, Missouri, Kansas, Arkansas, and Louisiana.



The representation of a girl is fanciful. The drawing is lined to indicate the color red.
For Wheat Flour.
Claims use since July 1910.

Ser. No. 572,323. Pastene & Co., Inc., New York, N. Y. Filed Jan. 17, 1949. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 67,057, 67,272, and others.
For Edible Salad and Cooking Oils, Coffee, Canned Fish, Cheese, Dried Fruits, Dried Peas, Dried Beans, Rice, Unshelled Nuts, Olives, Tomato Catsup, Tomato Sauce, Spaghetti Sauce, Tomato Paste, Canned Fruit Juices, Canned Vegetable Juices, Macaroni, Spaghetti, Peanut Butter, Jellies, Honey, Ravioli, Vinegar, Mushrooms, Canned Soups, Fruit Cakes, and Caponatino (Egg Plant Appetizer), Pickled Vegetables, Pickle Relishes, and Preserved Bottled Maraschino Cherries.
Claims use since 1874 as to the word "Pastene"; since Jan. 1, 1907, as to the word "Purity" and the design of a lily; since Sept. 1, 1934, as to the truncated cone design; and since Sept. 1, 1934, as to the mark shown.

Ser. No. 580,247. Lottie Kemberling Dutch Pantry, Monroe Township, Snyder County, Pa. Filed June 10, 1949.

DUTCH PANTRY

Lottie Kemberling

The word "Dutch" is disclaimed apart from the mark as shown. The name "Lottie Kemberling" is the signature and name of the partner signing the application papers.
For Potato Salad, Macaroni Salad, Vegetable Salad, Beet Salad, Rice Pudding, Baked Beans, Pickled Cabbage, Macaroni and Cheese.
Claims use since May 1, 1948.

Ser. No. 580,354. Roberts Turkey Brand Corned Meats, San Francisco, Calif. Filed June 13, 1949.



The words "Roberts," "Brand," and "Corned Meats" are disclaimed apart from the mark as a whole.
For Uncooked Cuts of Corned Beef and Uncooked Cuts of Corned Pork.
Claims use since July 31, 1919.

Ser. No. 608,714. Nash-Underwood, Inc., Chicago, Ill. Filed Jan. 12, 1951.

YUMMIE



No claim is made to the representation of the goods shown in the drawing.
For Chocolate Flavored Peanut Butter.
Claims use since Nov. 15, 1950.

Ser. No. 615,739. Robert Albe, West Keansburg, N. J. Filed June 27, 1951.

"CHEESE–HOUNDS"

Applicant disclaims the word "Cheese."
For Sandwich Made of Frankfurters Blended With Cheese.
Claims use since May 26, 1951.

Ser. No. 617,116. Marcus Lipsky, doing business as El Rancho Yogurti, Monrovia, Calif. Filed July 30, 1951.

formula "J" yogurt

The words "Formula" and "Yogurt" are disclaimed apart from the mark.
For Yogurt.
Claims use since July 9, 1951.

Ser. No. 625,124. Quality Chekd Dairy Products Association, Chicago, Ill. Filed Feb. 18, 1952. COLLECTIVE MARK.

Chek

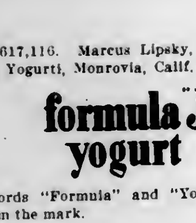
Applicant claims ownership of Registration No. 386,625.
For Frozen Dairy Dessert.
Claims use since Dec. 15, 1951.

Ser. No. 626,340. Productos Salinos, Inc., Ponce, Puerto Rico. Filed Mar. 12, 1952.

Delmar

For Table Salt.
Claims use since Mar. 1, 1951.

Ser. No. 628,593. Maple Producers Co-operative Association, Inc., Gouverneur, N. Y. Filed Apr. 22, 1952.



Frost-elf

Applicant claims ownership of Registration No. 173,260.
For Maple Sugar and Maple Syrup.
Claims use since June 23, 1922, as to the words "Frost-elf"; since July 5, 1922, as to the figure of the elf; and since July 5, 1922, as to the mark shown.

Ser. No. 628,805. Bren Products, Incorporated, Arlington, Va. Filed Apr. 28, 1952.

"BREN-BEAR"

The word "Bear" is disclaimed apart from the mark as shown.
For Iced Cakes of Ornamental Outline.
Claims use since Apr. 5, 1950.

Ser. No. 629,152. Church Grape Juice Company, Kennewick, Wash. Filed May 3, 1952.

GRAPLE

Applicant claims ownership of Registration No. 408,284.
For Bottled Blend of Concord Grape and Apple Juices for Food Purposes.
Claims use since Apr. 17, 1952.

Ser. No. 629,633. Standard Brands Incorporated, New York, N. Y. Filed May 13, 1952.



The trade-mark consists of a seal with the words "Seal Brand" therein placed in the center of the top of the can. The word "Brand" is disclaimed apart from the mark. The outline representative of the top of the can, as shown in the drawing is disclaimed. Applicant claims ownership of Registrations Nos. 54,403, 129,307, and others.
For Coffee.
Claims use since Apr. 9, 1952; and since October 1885 as to the design of a seal with the words "Seal Brand" therein.

Ser. No. 629,634. Standard Brands Incorporated, New York, N. Y. Filed May 13, 1952.



The drawing is lined to indicate the color red. The word "Brand" is disclaimed except apart from the mark. The outline representative of the top of the can, as shown in the drawing, is disclaimed. Applicant claims ownership of Registrations Nos. 54,403, 129,307, and others.
For Coffee.
Claims use since Apr. 9, 1952, as to the mark shown; and since October 1885 as to the design of a seal with the words "Seal Brand" therein.

Ser. No. 632,588. Beasley-Bailey Poultry Co., Inc., Athens, Ala. Filed July 16, 1952.

Sweet Sue

For Frozen and Fresh Dressed Chickens.
Claims use since Mar. 1, 1952.

Ser. No. 632,760. W. T. Young Foods, Inc., Lexington, Ky. Filed July 18, 1952.

BIG TOP

For Unshelled Peanuts.
Claims use since Aug. 28, 1946.

Ser. No. 636,128. G. F. Heublein & Bro., Inc., Hartford, Conn. Filed Oct. 3, 1952. (Sec. 2f.)

HEUBLEIN'S

Applicant claims ownership of Registrations Nos. 381,732, 244,233, and 333,805.
For Canned Soups; Mustard; Canned Baked Beans; and Sauces Containing Vegetables and Spices for Foods Such as Meats, Sea Foods, Vegetables, Vegetable and Fruit Juices, and Spaghetti.
Claims use since Feb. 28, 1928.

Ser. No. 637,232. Edna Andrelle Bach, doing business under the name and style of Bach's Peck-O-Egg Mfg. Co., Manhattan Beach, Calif. Filed Oct. 27, 1952.

Peck-O-Egg

No claim is made herein to the word "Egg" apart from the mark as shown.
For Bird Biscuits.
Claims use since Feb. 1, 1932.

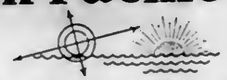
Ser. No. 637,984. Booth Fisheries Corporation, Chicago, Ill. Filed Nov. 13, 1952.

SUGAR KIST

No claim is made for the word "Sugar" apart from the combination.
For Pickled Herring.
Claims use since Sept. 24, 1952.

Ser. No. 638,223. Sun-Pacific Inc., San Diego, Calif. Filed Nov. 17, 1952.

Sun Pacific



Applicant disclaims the exclusive right to the word "Pacific" except when used as a part of the mark as shown.
For Food Products—Namely, Canned Fish.
Claims use since Oct. 8, 1952.

Ser. No. 638,679. Wayside Turkey Farms, Prospect, Ohio. Filed Nov. 26, 1952.



The representation of the turkey and all wording except the term "Wayside" are disclaimed apart from the mark shown.
For Dressed Turkeys.
Claims use since Nov. 1, 1940.

Ser. No. 639,050. J. H. Hobson Company, Philadelphia, Pa. Filed Dec. 5, 1952.

HOBSON'S CHOICE-LAC

No claim is made to the word "Lac" apart from the mark as shown.
For Nonfat Dry Milk Solids.
Claims use since in the year 1944.

Ser No. 639,594. Sun Maid Raisin Growers of California, Fresno, Calif. Filed Dec. 16, 1952.



SUN-MAID

The picture shown on the drawing is fanciful. Applicant claims ownership of Registrations Nos. 111,183, 121,400, and others.
For Raisin Juice.
Claims use since Dec. 1, 1952.

Ser. No. 641,735. Michigan Fruit Canners, Inc., Benton Harbor, Mich. Filed Feb. 4, 1953.

DOLLY MADISON

The name "Dolly Madison" is the name of a well known character in American history, the wife of President Madison. Applicant claims ownership of Registration No. 213,414.
For Frozen and Canned Fruits, Canned Vegetables, and Frozen and Canned Berries.
Claims use since 1920.

Ser. No. 642,795. Atlantic Commission Co. Inc., New York, N. Y. Filed Feb. 26, 1953.

EXCEL

Applicant claims ownership of Registrations Nos. 222,498, 250,115, and 511,771.

For Shelled Salted Peanuts, Shelled Salted Assorted Nut Meats, Shelled Walnut Meats, and Shelled Pecan Meats.

Claims use since September 1949.

Ser. No. 642,835. The John G. Paton Company, Inc., New York, N. Y. Filed Feb. 26, 1953.

Golden Blossom

Applicant claims ownership of Registrations Nos. 140,090, 347,462, and others.

For Canned Pineapple Juice.

Claims use since June 28, 1951.

Ser. No. 643,166. Kettle Cove Industries, Inc., Manchester, Mass. Filed Mar. 5, 1953.



For Preserved Fruits, Jellies, and Jams in Jars, Syrups in Bottles and Jars, and Candies in Boxes.

Claims use since on or about Sept. 15, 1952.

Ser. No. 643,248. Sunny Sally Inc., Los Angeles, Calif. Filed Mar. 6, 1953.

CAREER GIRL

For Fresh Vegetables.

Claims use since Feb. 4, 1953.

Ser. No. 643,276. E. J. Brach & Sons, Chicago, Ill. Filed Mar. 9, 1953. (Sec. 2f as to "Brach's.")



The drawing is lined for red and pink. Applicant claims ownership of Registrations Nos. 214,857, 396,511, and others.

For Candy.

Claims use since Feb. 11, 1953, as to the mark shown; and since in 1904 as to the mark "Brach's."

Ser. No. 644,225. Famous Virginia Foods, Inc., Lynchburg, Va. Filed Mar. 26, 1953.

Horn of Plenty

Applicant claims ownership of Registration No. 441,232.

For Pickles, Jams, Jellies, Mincemeat, Fruit Cake, Plum Pudding, and Canned Fruits and Vegetables.

Claims use since June 1, 1940.

Ser. No. 645,287. Calumet Cheese Co. Inc., Hilbert, Wis. Filed Apr. 15, 1953.

ASSHUDB

For Frozen Cheese Spreads.

Claims use since Dec. 11, 1952.

CLASS 47

WINES

Ser. No. 614,795. Standard Food Products Corp., Brooklyn, N. Y. Filed June 5, 1951.

VINEX

For Wines.

Claims use since on or about May 14, 1950.

Ser. No. 634,744. The Madera Bonded Wine and Liquor Company, Baltimore, Md. Filed Sept. 2, 1952.

GRAPEGERINE

For Wines.

Claims use since Aug. 8, 1952.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 616,718. Les Heritiers de Marie Brizard & Roger, Achard, Gintin & Cie, Bordeaux, France. Filed July 20, 1951.



The name "Marie Brizard" is that of the founder of applicant's business, now deceased. Applicant claims ownership of Registrations Nos. 541,931 and 544,215.

For Alcoholic Liqueurs.

Claims use since June 1752 in France; since August 1754 in commerce between France and the American Colonies; and since 1800 in commerce between France and the United States which may lawfully be regulated by Congress.

Ser. No. 636,916. Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Filed Oct. 21, 1952.

MARVILLE CLUB

No claim is made to the exclusive right to the use of the word "Club" apart from the mark as shown. While a portion of the drawing is lined to indicate the color gold, corresponding to the specimens filed, applicant does not make a specific claim to the gold coloring of the shaded portion of the drawing, as such coloring is not a material feature of its trade-mark. Applicant claims ownership of Registration No. 406,389.

For Whiskey.

Claims use since Sept. 29, 1952, as to the mark shown, and since Feb. 10, 1943, as to the word "Marville."

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 624,006. Ardalt Inc., New York, N. Y. Filed Jan. 24, 1952.

Lenwile

For Figurines and Statuettes Made From Earthenware or Porcelain.

Claims use since July 30, 1945.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 607,659. Bymart-Tintair, Inc, Dover, Del., and New York, N. Y., by change of name from Bymart, Inc. Filed Dec. 14, 1950.

Donu Edmond

The trade-mark comprises the term "Donu Edmond" which identifies a particular individual whose consent is of record. Applicant claims ownership of Registration No. 529,772.

For Home Hair Coloring.

Claims use since Apr. 15, 1950.

Ser. No. 611,604. Eau de Colognefabriek J. C. Boldoot N. V., Amsterdam, Netherlands. Filed Mar. 21, 1951. (Sec. 2f.)

Boldoot

IMPERIALE

Applicant claims ownership of Registrations Nos. 149,179, 182,655, and others.

For Perfumes, Colognes for Toilet Purposes, Toilet Cream, Hair Lotion, Brilliantine, Liquids and Creams for Permanent Wave, Hair Tonic, Hair Dyes, Hair Bleaching Preparations, Face Powder, Talcum Powder, Baby Powder and Scented and Perfumed Footpowder, Scented and Perfumed Salts and Powders for Footbaths, Make-Up Cream, Hand and Face Lotion, Cleaning Milk for the Skin, Toilet Astringent, Mouth Wash, Lipstick, Liquid Nail Polish Removers, Nail Polish Remover Preparations, Rouge, Eyebrow Pencils, Eye Shadow, Tooth Paste, Tooth Powder, Preparations for Cleaning Artificial Teeth, Personal Deodorants, Scented and Perfumed Bath Salts, Shaving Cream, Shaving Soap, After-Shaving Lotions, Sun Oil.

Claims use since 1925.

Ser. No. 611,605. Eau de Colognefabriek J. C. Boldoot N. V., Amsterdam, Netherlands. Filed Mar. 21, 1951. (Sec. 2f.)

Boldoot

VERITABLE

Applicant claims ownership of Registrations Nos. 149,179, 182,655, and others.

For Perfumes, Colognes for Toilet Purposes, Toilet Cream, Hair Lotion, Brilliantine, Liquids and Creams for Permanent Wave, Hair Tonic, Hair Dyes, Hair Bleaching Preparations, Face Powder, Talcum Powder, Baby Powder and Scented and Perfumed Footpowder, Scented and Perfumed Salts and Powders for Footbaths, Make-Up Cream, Hand and Face Lotion, Cleaning Milk for the Skin, Toilet Astringent, Mouth Wash, Lipstick, Liquid Nail Polish Removers, Nail Polish Remover Preparations, Rouge, Eyebrow Pencils, Eye Shadow, Tooth Paste, Tooth Powder, Preparations for Cleaning Artificial Teeth, Personal Deodorants, Scented and Perfumed Bath Salts, Shaving Cream, Shaving Soap, After-Shaving Lotions, Sun Oil.

Claims use since 1892.

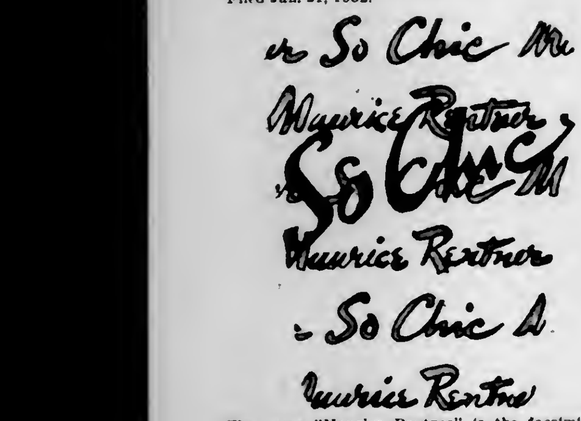
Ser. No. 623,340. Helene Curtis Industries, Inc., Chicago, Ill. Filed Jan. 9, 1952.

Revivex

For Hair Conditioner.

Claims use since Dec. 20, 1951.

Ser. No. 623,830. Maurice Rentner, Inc., New York, N. Y. Filed Jan. 21, 1952.



The name "Maurice Rentner" is the facsimile signature of the president of applicant corporation, whose consent has been given. Applicant claims ownership of Registration No. 428,711.

For Perfumes.

Claims use since Oct. 5, 1951.

Ser. No. 627,263. Richard Hudnut, New York, N. Y. Filed Mar. 29, 1952.

Velvet Touch

For Hand Cream.

Claims use since Mar. 6, 1952.

Ser. No. 633,750. Joe W. Bailey, doing business under the name of Lamb's Lan-O-Lin Laboratory, Buffalo, N. Y. Filed Aug. 12, 1952.

LIN-O-LAN

For Preparation for Setting the Hair, Conditioning the Scalp, and Treatment of Dandruff.

Claims use since May 29, 1952.

Ser. No. 635,569. Dr. Alexander Wacker Gesellschaft fur Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Filed June 13, 1952.

Drawin

Applicant claims ownership of German Registration No. 370,481, dated June 17, 1927.

For Perfumes, Hair Tonic, Face Lotion, Mouth Wash, Nail Lacquer, and Nail Lacquer Remover.

Ser. No. 635,753. Faberge, Inc., New York, N. Y. Filed Sept. 25, 1952.

Minuettes

Applicant claims ownership of Registration No. 312,218.

For Perfumes.

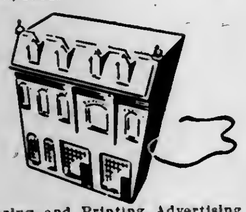
Claims use since September 1951.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 613,669. Harrison Art Advertising, Inc., doing business as Harrison Color Process, Philadelphia, Pa. Filed May 9, 1951.



For Preparing and Printing Advertising Copy.

Claims use since on or about Jan. 15, 1949.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 619,556. Western Acceptance Corporation, Pueblo, Colo. Filed Oct. 3, 1951.

WACO

The applicant makes no claim to the exclusive rights of "Waco" insofar as concerns unregisterable matter which is primarily geographically descriptive as applied to the services hereinbefore described.

For Financing Automobile Dealers' Time Sales of New and Used Automobiles at the Retail Level and Making Loans Secured by Chattel Mortgages to Automobile Dealers.

Claims use Apr. 15, 1932.

Ser. No. 632,376. International Banking Corporation, New York, N. Y., and elsewhere in the United States and in foreign nations. Filed July 10, 1952.



For Banking Services—Namely, Financing, Credit and Loan Services, Checks, Drafts, Acceptances, Foreign Exchange, Collection Services, and Letters of Credit.

Claims use since Dec. 19, 1901.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,778. Electrically Operated Exhaust Fans, Ventilating Blowers, and Evaporative Cooling Units. United Electric Service Company, Wichita Falls, Tex.
Filed Apr. 1, 1946, Serial No. 499,447. Published Mar. 24, 1953. Class 34.

444,779. Chewing Gum Containing Calcium Peroxide. Gum Laboratories, Inc., Clifton Heights, Pa.
Filed Jan. 6, 1947, Serial No. 515,304. Published Apr. 7, 1953. Class 46.

444,780. Canvas Belting. C. R. Daniels, Inc., Baltimore, Md.
Filed Jan 30, 1947, Serial No. 516,605. Published Apr. 14, 1953. Class 35.

ACT OF 1946, PRINCIPAL REGISTER

576,558. Toilet Creams. Creme Simon Anciennement J. Simon & Cie, Societe Anonyme, Lyon, France.
Original filed, act of 1905, Nov. 21, 1946; amended to application under act of 1946, Principal Register. Dec. 18, 1948, Serial No. 512,997. Published Mar. 31, 1953. Class 51.

576,559. Brassières, Bandeaux, Corsets, Garter Belts, and Girdles. Beauty Brassiere Co., Newark, N. J.
Original filed, act of 1905, Apr. 21, 1947; amended to application under act of 1946, Principal Register. June 29, 1950, Serial No. 521,054. Published Apr. 7, 1953. Class 39.

576,560. Cookies, Wafers, and Crackers. J. S. Ivins' Son, Inc., Philadelphia, Pa., assignor to Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa., a corporation of Illinois.
Filed Oct. 2, 1947, Serial No. 536,530. Published Apr. 14, 1953. Class 46.

576,561. Calcimine in Dry Powder Form. The Muralo Company, Inc., New Brighton and Staten Island, N. Y.
Filed Jan. 6, 1948, Serial No. 546,313. Published Apr. 7, 1953. Class 16.

576,562. Phonograph Needles. Lowell Needle Company, Inc., Boston, Mass., and Putnam, Conn., assignor to The Putnam Needle Company, Putnam, Conn., a corporation of Connecticut.
Filed Jan. 29, 1948, Serial No. 548,271. Published Apr. 21, 1953. Class 36.

576,563. Wood Furniture Components—Namely, Prefabricated Desk and Table Posts or Legs, Chair Bases and Arms, and Dividers for Filing Cabinets Having Exposed Surfaces Thereof Hardened To Resist Wear and Impact. Lundstrom Laboratories, Inc., Herkimer, N. Y.
Filed Aug. 23, 1948, Serial No. 563,857. Published Apr. 7, 1953. Class 32.

576,564. Poultry Feed Supplement the Principal Ingredients of Which Are Soybean Oil Meal, Etc. The Borden Company, New York, N. Y.
Filed Sept. 2, 1948, Serial No. 564,551. Published Apr. 7, 1953. Class 18.

576,565. Vehicular Chassis Dynamometers. Otis Elevator Company, New York, N. Y.
Filed Sept. 4, 1948, Serial No. 564,735. Published Feb. 24, 1953. Class 26.

576,566. Books. Phaidon Publishers, Inc., known by the name of East and West Library, New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,752. Published Apr. 7, 1953. Class 38.

576,567. Mercury Column Thermostats. Vapor Heating Corporation, Chicago, Ill.
Filed Dec. 15, 1948, Serial No. 570,596. Published Mar. 31, 1953. Class 26.

576,568. Anti-Freeze Solution, and Fluid Mixture for Use in Hydraulic Brake Systems. Puritan Company, Incorporated, Rochester, N. Y.
Filed Jan. 25, 1949, Serial No. 572,765. Published July 25, 1950. Class 6.

576,569. Cayenne Pepper. Francisco Flores Bastida, Espinardo (Murcia), Spain.
Filed Feb. 24, 1949, Serial No. 574,426. Published Apr. 7, 1953. Class 46.

576,570. Store and Merchandising Equipment, Etc. First Elmersel Store, Deerfield, Ill.
Filed Mar. 9, 1949, Serial No. 575,135. Published Apr. 7, 1953. Class 26.

576,571. Penetrating Floor Oil and Paint Reinforcing Oil. Stewart Paint Manufacturing Company, Minneapolis, Minn.
Filed Mar. 19, 1949, Serial No. 575,724. Published Apr. 7, 1953. Class 16.

576,572. Perfumes. Edward Schnyder, Zurich, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 128,720, filed Apr. 4, 1949.
Filed June 23, 1949, Serial No. 580,950. Published Apr. 14, 1953. Class 51.

576,573. Poultry and Animal Feed—Namely, Feed for Poultry, Hogs, and Cattle. Western Condensing Company, San Francisco, Calif.
Filed July 11, 1949, Serial No. 581,784. Published Mar. 10, 1953. Class 46.

576,574. Books Published Annually. Adventures In Good Eating, Inc., Chicago, Ill.
Filed Sept. 13, 1949, Serial No. 584,742. Published Mar. 31, 1953. Class 38.

576,575. Preparation for Symptomatic Relief of Colds and Allergies. Anahist Co. Inc., Yonkers, N. Y.
Filed Oct. 4, 1949, Serial No. 585,736. Published Aug. 1, 1950. Class 18.

576,576. Small Cubes of Cane Sugar. Imperial Sugar Company, Sugar Land, Tex.
Filed Oct. 29, 1949, Serial No. 587,033. Published Apr. 14, 1953. Class 46.

576,577. Machines, Apparatus or Instruments Used in the Testing and Correcting of Wheel Alignment. Wilco Products, Inc., Orange, N. J.
Filed Nov. 2, 1949, Serial No. 587,219. Published Feb. 24, 1953. Class 26.

576,578. Statues, Statuettes, Statuary, Figures, Figurines, Plaques, Etc. Albert E. Hauck, Cincinnati, Ohio.
Filed Nov. 22, 1949, Serial No. 588,173. Published Mar. 10, 1953. Class 30.

576,579. Salted Nuts. Krispy Kernels, Inc., Newark, N. J.
Filed Nov. 25, 1949, Serial No. 588,302. Published Apr. 7, 1953. Class 46.

576,580. Enchiladas, Mexican Candy, Green Chili Sauce, Red Chili Sauce, Tortillas, Frijoles. La Posta de Mesilla, La Mesilla, N. Mex.
Filed Dec. 6, 1949, Serial No. 588,866. Published Apr. 7, 1953. Class 46.

576,581. Fish Hooks. Victor C. Kahle, doing business as Kahle Horizontal Fish Hook Co., South St. Paul, Minn.
Filed Dec. 20, 1949, Serial No. 589,658. Published Apr. 14, 1953. Class 22.

576,582. Industrial and Domestic Models—Namely, Scale Models of Industrial Plants, Scale Models of Commercial and Domestic Residences, Etc. Hardy J. Bowen, doing business as Industrial Models, Arden, Del.
Filed Dec. 23, 1949, Serial No. 589,825. Published Feb. 24, 1953. Class 26.

576,583. Universal Mounting Means—Namely, a Stand Specially Adapted for Mounting Testing Apparatus as for Use in Breadboard Rigging and Testing of Servomechanisms and Like Apparatus. Servo Corporation of America, New Hyde Park, N. Y.
Filed Feb. 4, 1950, Serial No. 592,005. Published Feb. 24, 1953. Class 26.

576,584. Polishing Preparation for Polishing Metal and Painted Surfaces of Automobiles and the Like. R. S. Bolling, doing business under the fictitious name and style of National Silicone Products Co., Los Angeles, Calif., assignor to The Silicote Corporation, Oshkosh, Wis.
Filed Feb. 20, 1950, Serial No. 592,751. Published Apr. 1, 1952. Class 4.

576,585. Sheet Glass, Guardian Glass Company, Inc., Detroit, Mich.
Filed Mar. 3, 1950, Serial No. 593,345. Published Apr. 14, 1953. Class 33.

576,586. New Wall Finish—Namely, a Cold Water Paint for Interior Purposes. M. A. Bruder & Sons, Incorporated, Philadelphia, Pa.
Filed Mar. 10, 1950, Serial No. 593,711. Published Apr. 14, 1953. Class 16.

576,587. Rice. Rice Growers Association of California, Sacramento, Calif.
Filed Mar. 31, 1950, Serial No. 594,994. Published Feb. 27, 1951. Class 46.

576,588. Chemically Treated Polishing Cloths for Use on Guns, Tools, Household Furnishings, and Automobiles. The Silicote Corporation, Oshkosh, Wis.
Filed Apr. 3, 1950, Serial No. 595,163. Published Apr. 1, 1952. Class 29.

576,589. Automatic Gas Water Heaters. Continental Water Heater Co., Los Angeles, Calif.
Filed Apr. 11, 1950, Serial No. 595,535. Published Mar. 17, 1953. Class 34.

576,590. Machines for Tumbling, Burnishing, and Otherwise Finishing Metals, Plastics, Hard Rubber, Wood, and the Like. Lupomatic Industries, Inc., New York, N. Y., now by change of name Tumb-L-Matic, Inc., a corporation of New York.
Filed Apr. 21, 1950, Serial No. 596,103. Published Jan. 9, 1951. Class 23.

576,591. Wheat Flour. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Apr. 22, 1950, Serial No. 596,191. Published Mar. 31, 1953. Class 46.

576,592. Bulk Laxative. Valentine Company, Incorporated, Richmond, Va.
Filed May 9, 1950, Serial No. 597,183. Published Mar. 31, 1953. Class 18.

576,593. Coated Drab Paper Liners Used as Preformed Sealing Liners, Etc. Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation.
Filed May 25, 1950, Serial No. 598,121. Published Mar. 10, 1953. Class 50.

576,594. Antibacterial Preparation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed June 2, 1950, Serial No. 598,506. Published Mar. 31, 1953. Class 18.

576,595. Publication Concerned With the Subject of Colon and Rectal Disease. Alice F. Drueck, doing business under the name or style of Proctology, Chicago, Ill.
Filed June 9, 1950, Serial No. 598,838. Published Apr. 7, 1953. Class 38.

576,596. Electrically Operated Coin Controlled Moving Picture Projectors. Capitol Projector Corporation, New York, N. Y.
Filed June 13, 1950, Serial No. 598,980. Published Feb. 24, 1953. Class 26.

576,597. Watches and Parts Thereof, Watch Movements, Watch-Cases. Societe Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie, Le Sentier, Switzerland.
Filed June 16, 1950, Serial No. 599,270. Published Apr. 7, 1953. Class 27.

576,598. Reproductions of 18th and 19th Century Furniture, Both Upholstered and Wood, for Living-Room, Dining-Room, and Bedroom, More Specifically Sofas, Chairs, Tables, Desks, Breakfronts, Cabinets, Mirrors, Picture Frames, Beds, Dressers. Shaffro, Inc., New York, N. Y.
Filed June 22, 1950, Serial No. 599,595. Published Apr. 14, 1953. Class 32.

576,599. Evaporative Coolers for Humidifying and Circulating the Air and Grilles and Louvers for Air Distribution. J. R. Dry and Sons, Winters, Tex.
Filed July 11, 1950, Serial No. 600,471. Published Apr. 14, 1953. Class 34.

576,600. Synergized Ryania Concentrate for Use in the Agricultural Field for the Control of Economically Important Crop and Field Pests. S. B. Penick & Company, New York, N. Y.
Filed July 28, 1950, Serial No. 601,370. Published Apr. 14, 1953. Class 6.

576,601. Surface Active Industrial Cleaning Solution Used With a Strong Alkali To Impart Detergent Characteristics to the Latter for the Removal of Insoluble Pigments and Oxides, Particularly From Steel Parts. Chester Whitfield Smith, Detroit, Mich.
Filed July 29, 1950, Serial No. 601,471. Published Apr. 21, 1953. Class 52.

576,602. Plastic Film in the Nature of Simulated Leather, Said Film Being Sold by the Bolt or Roll, Etc. Columbus Coated Fabrics Corporation, Columbus, Ohio.
Filed Aug. 4, 1950, Serial No. 601,712. Published Mar. 10, 1953. Class 50.

576,603. Fluxes. All-Sil Welding Metals, Inc., New York, N. Y.
Filed Aug. 14, 1950, Serial No. 602,131. Published Apr. 14, 1953. Class 6.

576,604. Cleaning Preparation in Liquid Form for Cleaning Floors, Woodwork, Bathrooms, Windows, Rugs, Linoleum, Garages, and Garbage Receptacles. Sage Laboratories, Inc., New York, N. Y.
Filed Aug. 24, 1950, Serial No. 602,718. Published Apr. 21, 1953. Class 52.

576,605. Pottery—i. e., Earthenware Plates and Dishes, China Candy Dishes, and Porcelain Plates and Dishes. Mitteldorfer Straus, Inc., New York, N. Y.
Filed Sept. 14, 1950, Serial No. 603,539. Published Mar. 25, 1952. Class 30.

576,606. Permanent Wave Kits Containing Waving Lotion, Curlers, Curler Bands, End Papers, and Neutralizing Preparation. Stanley Home Products, Inc., Westfield, Mass.
Filed Oct. 3, 1950, Serial No. 604,402. Published Mar. 31, 1953. Class 44

576,607. Watches and Parts of Watches. Jenny Watch G. m. b. H., Basel, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 135,273, filed Aug. 15, 1950.
Filed Oct. 10, 1950, Serial No. 604,697. Published Apr. 14, 1953. Class 27.

576,608. Canned Sardines. Monterey Canning Co., Monterey, Calif.
Filed Oct. 14, 1950, Serial No. 604,919. Published Mar. 10, 1953. Class 46.

576,609. Truck and Trailer Bodies and Tank Bodies for Carrying Liquids. Gar Wood Industries, Inc., Wayne, Mich.
Filed Oct. 20, 1950, Serial No. 605,210. Published Apr. 14, 1953. Class 19.

576,610. Text-Books and Completely-Printed Student Testing and Practice Publications. South-Western Publishing Co., Cincinnati, Ohio.
Filed Oct. 23, 1950, Serial No. 605,333. Published Apr. 7, 1953. Class 38.

576,611. Abrading Block Formed of Hardened, Foamy, Synthetic, Glass-Like Material. Willard K. Carter, doing business as Carter Products Co., Columbus, Ohio.
Filed Oct. 25, 1950, Serial No. 605,406. Published Apr. 14, 1953. Class 4.

576,612. Coating Composition for Application to Surfaces of Processing Equipment To Facilitate Release of Processed Product Therefrom. National Glaco Chemical Corporation, Chicago, Ill.
Filed Nov. 7, 1950, Serial No. 606,026. Published Apr. 21, 1953. Class 6.

576,613. Printed Fashion Display Sheets, Issued in a Series. J. Wilfrid Gagen, doing business as The Fashion Bureau, New York, N. Y.
Filed Nov. 17, 1950, Serial No. 606,524. Published Mar. 31, 1953. Class 38.

576,614. Photographic Equipment, and/or Photographic Accessories and/or Photographic Supplies, Etc. Graflex, Inc., Rochester, N. Y.
Filed Dec. 7, 1950, Serial No. 607,384. Published Feb. 24, 1953. Class 26.

576,615. Abrasive Compounds, Adapted for Use in Tumbling Machines for Cutting, Smoothing, and Lustering the Work. Tumb-L-Matic, Inc., New York, N. Y.
Filed Dec. 8, 1950, Serial No. 607,463. Published Sept. 25, 1951. Class 4.

576,616. Pyrophoric Cigarette and Cigar Lighters, Ash Trays, and Cigarette Boxes. Continental Merchandise Co., Inc., New York, N. Y.
Filed Dec. 12, 1950, Serial No. 607,581. Published Apr. 22, 1952. Class 8.

576,617. Books, Bulletins, Periodical Publications, Booklets Relating to the Banking Business or to Other Matters of Interest to Applicant's Customers, Maps, and Calendars (Other Than Desk Calendars). The National City Bank of New York, New York, N. Y.
Filed Dec. 15, 1950, Serial No. 607,717. Published Apr. 7, 1953. Class 38.

576,618. Ointment for Skin Diseases. Serpa & Paglia, Providence, R. I.
Filed Dec. 16, 1950, Serial No. 607,764. Published Mar. 31, 1953. Class 18.

576,619. Pharmaceutical Preparation for Oral Use—Namely, an Emulsion of Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide. Mead Johnson & Company, Evansville, Ind.
Filed Dec. 28, 1950, Serial No. 608,166. Published May 13, 1952. Class 18.

576,620. Glue. Swift & Company, Chicago, Ill.
Filed Jan. 29, 1951, Serial No. 609,383. Published Oct. 30, 1951. Class 5.

576,621. Electronic Computers and Parts Thereof, Including Input Mechanisms, Etc. Northrop Aircraft, Inc., Hawthorne, Calif., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware.
Filed Jan. 30, 1951, Serial No. 609,413. Published Feb. 24, 1953. Class 26.

576,622. Methyl Methacrylate Monomer and Polymer and a Filler Used in the Fabrication of Dental Trays and Base Plates. Dental Perfection Company, Glendale, Calif.
Filed Feb. 5, 1951, Serial No. 609,633. Published Apr. 21, 1953. Class 6.

576,623. Canned Tomato Juice, Canned Tomato Puree, and Canned Pork and Beans. Eaton Canning Company, Eaton, Ind.
Filed Feb. 5, 1951, Serial No. 609,636. Published Mar. 31, 1953. Class 46.

576,624. Frozen Egg Whites and Fresh Eggs. Freshie, Inc., Merced, Calif.
Filed Feb. 5, 1951, Serial No. 609,641. Published Mar. 31, 1953. Class 46.

576,625. Additive for Motor Oil. Stewart-Warner Corporation, Chicago, Ill.
Filed Feb. 15, 1951, Serial No. 610,150. Published Apr. 7, 1953. Class 15.

576,626. Technical and Promotional Bulletins and Literature Published From Time to Time. Rail Steel Bar Association, Chicago, Ill.
Filed Feb. 28, 1951, Serial No. 610,632. Published Apr. 7, 1953. Class 38.

576,627. Axial Flow Positive Displacement Blowers Embodying a Casing Having Inlet and Outlet Ports and With or Without Internal Compression. The Standard Stoker Company, Inc., New York, N. Y., now by change of name Read Standard Corporation, a corporation of Delaware.
Filed Mar. 1, 1951, Serial No. 610,720. Published Apr. 7, 1953. Class 34.

576,628. Sash Regulator Comprising a Thermostat, a Valve Assembly, and Electrically Operated Motor-Driven Hydraulic Power Cylinder Unit. Burnham Corporation, conducting a departmental business under the name of Lord & Burnham, Irvington-on-Hudson, N. Y.
Filed Mar. 15, 1951, Serial No. 611,340. Published Feb. 24, 1953. Class 26.

576,629. Machine Shafts, Transmissions, Concrete Mixers, Truck Mounted Concrete Mixers, and Material Handling Equipment—Namely, Tractor Mounted Shovels for Carrying and Loading Loose Materials. The Transmission & Gear Company, Dearborn, Mich.
Filed Mar. 17, 1951, Serial No. 611,495. Published Dec. 2, 1952. Class 23.

576,630. Astringent Lotion or a Liquid Preparation for the Treatment of Minor Skin Irritations. Verle C. Smith, doing business as Surgeons Lotion Laboratories, Tulsa, Okla.
Filed Mar. 28, 1951, Serial No. 611,918. Published Nov. 25, 1952. Class 18.

576,631. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Mar. 31, 1951, Serial No. 612,092. Published Apr. 14, 1953. Class 32.

576,632. Chemical Preparation To Be Used for Corrosion Control and as a Rust Inhibitor. Industrial Research Laboratories, Houston, Tex.
Filed Apr. 7, 1951, Serial No. 612,371. Published Apr. 21, 1953. Class 6.

576,633. Mattresses, Box Springs, and Dual Sleeping Items—Namely, Sofa Beds and Lounges. A Brandweiu & Company, Chicago, Ill.
Filed Apr. 10, 1951, Serial No. 612,436. Published Apr. 14, 1953. Class 32.

576,634. Fresh, Frosen, and Smoked Fish and Shellfish, Canned Fish, Fish Paste. Willem Wijnbelt, trading under the style of Wijnbelt & Co., also trading under the style of Wylax Conservenfabriek, Woudrichem, Netherlands.
Filed Apr. 10, 1951, Serial No. 612,478. Published Mar. 24, 1953. Class 46.

576,635. Pneumatic Tires. The General Tire & Rubber Company, Akron, Ohio.
Filed Apr. 11, 1951, Serial No. 612,493. Published Apr. 21, 1953. Class 35.

576,636. Roofing Equipment—Namely, Chimney Top Frames. David Levow, New York, N. Y.
Filed Apr. 11, 1951, Serial No. 612,502. Published Mar. 17, 1953. Class 34.

576,637. Blankets. Pepperell Manufacturing Company, Boston, Mass.
Filed Apr. 16, 1951, Serial No. 612,701. Published Apr. 14, 1953. Class 42.

576,638. Ignition System for Gas Stoves and Ranges. Geo. D. Roper Corporation, Rockford, Ill.
Filed Apr. 19, 1951, Serial No. 612,873. Published Mar. 17, 1953. Class 34.

576,639. Canned Fruits and Canned Vegetables. Mor-Pak Preserving Corporation, San Francisco, Calif.
Filed May 7, 1951, Serial No. 613,600. Published Apr. 7, 1953. Class 46.

576,640. Felt Sheet Packing. The Anchor Packing Company, Philadelphia, Pa.
Filed May 11, 1951, Serial No. 613,754. Published Apr. 21, 1953. Class 35.

576,641. Toy Animals. Frank Passarelli, doing business under the name Mispah Toy & Novelty Co., Mizpah, N. J.
Filed May 17, 1951, Serial No. 614,007. Published Apr. 14, 1953. Class 22.

576,642. Canned Salted Peanuts. A. & C. Young Co., Van Nuys, Calif.
Filed May 21, 1951, Serial No. 614,117. Published Apr. 7, 1953. Class 46.

576,643. Penetrating Wood Floor Finishes. McCloskey Varnish Co., Philadelphia, Pa.
Filed May 23, 1951, Serial No. 614,258. Published Apr. 7, 1953. Class 16.

576,644. Fertilizers. Eastern States Soilbuilders, Inc., Sharpeburg, Md.
Filed June 5, 1951, Serial No. 614,761. Published Mar. 31, 1953. Class 10.

576,645. Gauge for Setting and Adjusting Thermostatic Controls, Said Gauge Being a Generally Disc-Like Member Having a Peripheral Camming Surface Extending Through a Substantial Portion of Its Circumference. S. Joe Jacobs, doing business under the name and style of Jacobs Bros., Philadelphia, Pa.
Filed June 5, 1951, Serial No. 614,780. Published Feb. 24, 1953. Class 26.

576,646. Edible Cocoanut Oil. The Procter & Gamble Company, Cincinnati, Ohio.
Filed June 14, 1951, Serial No. 615,191. Published Mar. 17, 1953. Class 46.

576,647. Watch Movements, Cases, Dials, and Sheaths. Ernst Homberger-Rauschenbach, vorm. International Watch Co. (Ernest Homberger-Rauschenbach, ci-devant International Watch Co.), Schaffhouse, Switzerland.
Filed June 16, 1951, Serial No. 615,290. Published Mar. 31, 1953. Class 27.

576,648. Detergent Compositions Containing Soda Ash, Caustic Soda, Etc. Diamond Alkali Company, Cleveland, Ohio.
Filed June 21, 1951, Serial No. 615,485. Published Apr. 14, 1953. Class 52.

576,649. Stripping and Cleaning Compound Used as a Stain and Dye Remover and for Use in the Bleaching of Fabrics. A. L. Wilson Chemical Company, Kearny, N. J.
Filed June 21, 1951, Serial No. 615,510. Published Apr. 14, 1953. Class 52.

576,650. House Organ. Winsor & Newton, Inc., New York, N. Y.
Filed June 29, 1951, Serial No. 615,918. Published Mar. 31, 1953. Class 38.

576,651. Refined Dewaxed Bleached Shellac Dissolved in Denatured Alcohol, Etc. William Zinsser & Co. Incorporated, New York, N. Y.
Filed June 29, 1951, Serial No. 615,920. Published Apr. 7, 1953. Class 16.

576,652. Textile Fabrics in the Piece Made of Synthetic Fibers, Which Have Been Specially Treated With a Wrinkle-Resistant Finish. Burlington Mills Corporation, Greensboro, N. C.
Filed July 6, 1951, Serial No. 616,157. Published Apr. 14, 1953. Class 42.

576,653. Canned Fruits. Hollister Canning Company, Hollister, Calif.
Filed July 23, 1951, Serial No. 616,821. Published Mar. 17, 1953. Class 46.

576,654. Photographic Flash Gun. Burleigh Brooks Co., New York, N. Y.
Filed July 25, 1951, Serial No. 616,895. Published Apr. 21, 1953. Class 26.

576,655. Chocolate Flavored Dried Milk Mix for Use in Making a Food Drink. Citrus Products Company, Chicago, Ill.
Filed Aug. 2, 1951, Serial No. 617,231. Published Mar. 17, 1953. Class 46.

576,656. Soaps. Donald Barry Productions, Inc., Los Angeles, Calif.
Filed Aug. 20, 1951, Serial No. 617,851. Published Apr. 14, 1953. Class 52.

576,657. Piece Goods of Cotton, Wool, and Synthetic Fibers. The Russell Manufacturing Company, Alexander City, Ala.
Filed Aug. 25, 1951, Serial No. 618,101. Published Apr. 14, 1953. Class 42.

576,658. Ready-Mixed Paints and Tinting Colors for Use in Paints or Similar Type Coatings. International Paint Company, Inc., New York, N. Y.
Filed Sept. 14, 1951, Serial No. 618,797. Published Apr. 14, 1953. Class 16.

576,659. Watches, Watch Cases, and Watch Movements. The Gruen Watch Company, Cincinnati, Ohio.
Filed Sept. 29, 1951, Serial No. 619,387. Published Mar. 31, 1953. Class 27.

576,660. Ointment for the Care and Treatment of the Hair and Scalp. Pearl M. Simmons, doing business as Ardoll Products, Chicago, Ill.
Filed Sept. 6, 1951, Serial No. 620,071. Published Mar. 31, 1953. Class 18.

576,661. Butter Dispensing Apparatus for the Measurement and Dispensing of Servings of Melted Butter or Like Substances To Be Applied to Food Stuffs. Supurdisplay, Incorporated, Milwaukee, Wis.
Filed Oct. 24, 1951, Serial No. 620,444. Published Mar. 31, 1953. Class 26.

576,662. Lead Pencils. Gulf States Sales Corporation, Birmingham, Ala.
Filed Oct. 29, 1951, Serial No. 620,599. Published Mar. 17, 1953. Class 37.

576,663. Chemical Compounds Which Are Added to Water To Control Scale Formation, Corrosion, and Organic Growths. Water Chemists, Inc., Los Angeles, Calif.
Filed Oct. 30, 1951, Serial No. 620,704. Published Apr. 21, 1953. Class 6.

576,664. Trophies, Medals, Cups, Emblems, Made of Non-Precious Metals. Universal Sports Corporation, New York, N. Y.
Filed Nov. 9, 1951, Serial No. 621,092. Published Mar. 10, 1953. Class 50.

576,665. Electrical Instruments Especially for Measuring or Regulating Purposes—Namely, Angle and Torque Transmitting and Receiving Units, Etc. Svenska Ackumulator Aktiebolaget Jungner, Stockholm, Sweden.
Filed Nov. 10, 1951, Serial No. 621,111. Published Apr. 14, 1953. Class 26.

576,666. Esters of Dehydrated Castor Oil Fatty Acids, Useful as Plasticizers for Resins and Rubbers, in Lubricants for Textiles, Metals, and for Other Uses. The Baker Castor Oil Company, Jersey City, N. J.
Filed Nov. 20, 1951, Serial No. 621,443. Published Apr. 21, 1953. Class 6.

576,667. Esters of Long-Chain Fatty Acids, Useful as Plasticizers for Resins and Rubbers, in Lubricants for Textiles, Metals, and for Other Uses and Long-Chain Fatty Acids. The Baker Castor Oil Company, Jersey City, N. J.
Filed Nov. 20, 1951, Serial No. 621,444 Published Apr. 21, 1953. Class 6.

576,668. Plant Food. Swift & Company, Chicago, Ill.
Filed Nov. 20, 1951, Serial No. 621,485. Published Mar. 31, 1953. Class 10.

576,669. Combination Windows. Alumatic Corporation of America, West Allis, Wis.
Filed Nov. 23, 1951, Serial No. 621,538. Published Mar. 31, 1953. Class 12.

576,670. Air Conditioning and Furnace Accessories, Etc. Hart & Cooley Manufacturing Co., Holland, Mich.
Filed Nov. 23, 1951, Serial No. 621,554. Published Mar. 31, 1953. Class 34.

576,671. Shelled, Unshelled, Toasted, and Salted Pecans. Dixie Paper Shell Pecan Exchange, Inc., Barnesville, Ga.
Filed Nov. 27, 1951, Serial No. 621,708. Published Apr. 7, 1953. Class 46.

576,672. Hand Warmers Using as Fuel a Lower-Boiling Hydrocarbon Such as Naptha, Gasoline, Alcohols, and Like Materials. Sharpe Instruments Limited, Toronto, Ontario, Canada.
Filed Nov. 29, 1951, Serial No. 621,843. Published Mar. 17, 1953. Class 34.

576,673. Pharmaceutical Preparation Indicated in the Treatment of Whooping Cough. Industria Quimica Farmaceutica Vir, S. A., Madrid, Spain.
Filed Dec. 20, 1951, Serial No. 622,719. Published Mar. 31, 1953. Class 18.

576,674. Vitamin Fortifications To Be Used in the Preparation of Poultry and Livestock Feeds. Vita+Plus Corporation, Madison, Wis.
Filed Dec. 27, 1951, Serial No. 622,913. Published Apr. 7, 1953. Class 18.

576,675. Fertilizing Compounds. Central Chemical Corporation, Hagerstown, Md.
Filed Dec. 28, 1951, Serial No. 622,925. Published Mar. 31, 1953. Class 10.

576,676. China Tableware, Earthen Tableware, and Pottery Tableware. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,110. Published Mar. 31, 1953. Class 30.

576,677. Machine-Made and Handmade Glassware Sets and Individual Glass Pieces—Namely, Glass Goblets, Tumblers, Tea Glasses, Cocktail Glasses, Pitchers, Juice Glasses, Glass Finger Bowls, Glass Vases, Glass Tableware, Glass Saucepans, Glass Skillets, and Kitchen Glassware. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,113. Published Apr. 14, 1953. Class 33.

576,678. Canned Citrus Fruit Juices. Crosby Fruit Products Company, La Habra, Calif.
Filed Jan. 3, 1952, Serial No. 623,128. Published Apr. 7, 1953. Class 46.

576,679. Diamonds, Finger Rings, and Mountings Therefor. Alan Norvelle Gordon, Oklahoma City, Okla.
Filed Jan. 8, 1952, Serial No. 623,304. Published Mar. 31, 1953. Class 28.

576,680. Gas and Oil Burners, Space Heating Devices—Namely, Floor Furnaces, Central Heaters, Suspended Unit Heaters, and Wall Heaters. John S. Zink, doing business under the name of The John Zink Company, Tulsa, Okla.
Filed Jan. 14, 1952, Serial No. 623,573. Published Mar. 31, 1953. Class 34.

576,681. Hydraulic Oils. James B. Kearney Corporation, St. Louis, Mo.
Filed Jan. 23, 1952, Serial No. 623,967. Published Apr. 14, 1953. Class 15.

576,682. Pillow Cases, Crib Sheets, and Cheesecloth. Chicopee Mills, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,125. Published Apr. 14, 1953. Class 42.

576,683. Binoculars. Leonards & Lee Sales Co., Chicago, Ill.
Filed Jan. 26, 1952, Serial No. 624,141. Published Apr. 7, 1953. Class 26.

576,684. Sanitary Preparations for Use in Connection With Sanitary Closets. The Mofussil Development Corporation Limited, Ayr, Scotland.
Filed Jan. 29, 1952, Serial No. 624,241. Published Apr. 14, 1953. Class 6.

576,685. Heat Actuated Vapor Generator and Blower for Use in Fireplace. Van Art, Inc., San Francisco, Calif.
Filed Jan. 29, 1952, Serial No. 624,253. Published Mar. 24, 1953. Class 34.

576,686. Construction Board—Namely, Fiber Board, Insulating Board, Etc. Masonite Corporation, Chicago, Ill., and Laurel, Miss.
Filed Jan. 30, 1952, Serial No. 624,282. Published Mar. 31, 1953. Class 12.

576,687. Farm and Lawn Seed. Seaboard Seed Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,362. Published Mar. 31, 1953. Class 1.

576,688. Mounted and Unmounted Blank Printing Plates. Farrington Manufacturing Company, Jamaica Plain, Mass.
Filed Feb. 4, 1952, Serial No. 624,481. Published Mar. 17, 1953. Class 50.

576,689. Cartoons or Comic Strips Appearing From Time to Time. National Distillers Products Corporation, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,559. Published Mar 31, 1953. Class 38.

576,690. Optical Frames. Marine Optical Manufacturing Co., Boston, Mass.
Filed Feb. 6, 1952, Serial No. 624,606. Published Feb. 24, 1953. Class 26.

576,691. Sudsing Cleaner, Cleanser, and Detergent. The Proctor & Gamble Company, Cincinnati, Ohio.
Filed Feb. 14, 1952, Serial No. 624,969. Published Apr. 14, 1953. Class 52.

576,692. Unitary Apparatus for Performing Titrations in Which the Flow, Etc. Beckman Instruments, Inc., South Pasadena, Calif.
Filed Feb. 23, 1952, Serial No. 625,394. Published Feb. 24, 1953. Class 26.

576,693. Orthopedic Arch Supports. Le Vibrion Aktiebolag, Stockholm, Sweden.
Filed Feb. 25, 1952, Serial No. 625,479. Published Apr. 7, 1953. Class 44.

576,694. Cotton Piece Goods. Meb Export Co., Inc., New York, N. Y.
Filed Feb. 26, 1952, Serial No. 625,536. Published Dec. 9, 1952. Class 42.

576,695. Pharmaceutical and Veterinary Preparations, Etc. Imperial Chemical (Pharmaceuticals) Limited, London, England, assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware.
Filed Feb. 27, 1952, Serial No. 625,603. Published Mar. 31, 1953. Class 18.

576,696. Chemical Product in Granular Form for Cleaning Machinery and Utensils in the Food, Beverage, and Dairy Industries. The Diversey Corporation, Chicago, Ill.
Filed Feb. 28, 1952, Serial No. 625,664. Published Apr. 14, 1953. Class 52.

576,697. Lubricant Used for Lubricating Bronze Bushings Used in Textile Equipment. National Plastics, Inc., Knoxville, Tenn.
Filed Mar. 3, 1952, Serial No. 625,860. Published Apr. 14, 1953. Class 15.

576,698. Portable, Water Evaporative Type Air Coolers and Heaters. Portable Air Cooler and Heater, Inc., Chico, Calif.
Filed Mar. 4, 1952, Serial No. 625,918. Published Mar. 17, 1953. Class 34.

576,699. Strawberry and Raspberry Preserves, and Fresh Frozen Strawberries and Raspberries. Snohomish County Berry Growers Association, Marysville, Wash.
Filed Mar. 6, 1952, Serial No. 626,056. Published Mar. 17, 1953. Class 46.

576,700. Display Cases. The Brunswick-Balke-Collender Company, Chicago, Ill.
Filed Mar. 8, 1952, Serial No. 626,145. Published Apr. 14, 1953. Class 32.

576,701. Publications Issued From Time to Time. Year, Incorporated, Los Angeles, Calif.
Filed Mar. 13, 1952, Serial No. 626,294. Published Mar. 31, 1953. Class 38.

576,702. Accordions. Enrico Roselli Accordion Company, Seattle, Wash.
Filed Mar. 12, 1952, Serial No. 626,341. Published Apr. 21, 1953. Class 36.

576,703. Accordions. Enrico Roselli Accordion Company, Seattle, Wash.
Filed Mar. 12, 1952, Serial No. 626,342. Published Apr. 21, 1953. Class 36.

576,704. Plant Food. James W. Owen, doing business under the name Kruse Nurseries, Bloomington, Ill.
Filed Mar. 18, 1952, Serial No. 626,636. Published Apr. 7, 1953. Class 10.

576,705. Viscous Fatty Acid Esters. Spencer Kellogg and Sons, Inc., Buffalo, N. Y.
Filed Mar. 21, 1952, Serial No. 626,833. Published Apr. 14, 1953. Class 6.

576,706. Gas Meters and Combination Gas Meters and Regulators and Regulators for Controlling and Regulating Gas Pressure. Sprague Meter Company, Bridgeport, Conn.
Filed Mar. 21, 1952, Serial No. 626,834. Published Mar. 31, 1953. Class 26.

576,707. Photographic Apparatus—Namely, Cameras and Parts Thereof. Carl Koch, doing business as Foto Koch, Schaffhausen, Switzerland.
Filed Mar. 26, 1952, Serial No. 627,071. Published Feb. 24, 1953. Class 26.

576,708. Scouring Powder. Safeway Stores, Incorporated, Oakland, Calif.
Filed Apr. 1, 1952, Serial No. 627,419. Published Apr. 14, 1953. Class 4.

576,709. Spasmolytic. Geigy Company, Inc., New York, N. Y.
Filed Apr. 4, 1952, Serial No. 627,571. Published Apr. 7, 1953. Class 18.

576,710. Miniature Animal Figurines for Use as Decorative Pieces or Collectors' Items Made in Whole or in Part of Non-Precious Metal. The Mortens Studio, Chicago, Ill.
Filed Apr. 15, 1952, Serial No. 628,117. Published Mar. 10, 1953. Class 50.

576,711. Weedicides, Insecticides, and Plant, Grain, and Seed Disinfectants. Farbwerke Hoechst, Vormals Meister Lucius & Brüning, Frankfurt am Main Hochst, Germany.
Filed Apr. 16, 1952, Serial No. 628,148. Published Apr. 7, 1953. Class 6.

576,712. Eau de Cologne, Lever Brothers Company, New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,408. Published Mar. 31, 1953. Class 51.

576,713. Eau de Cologne. Lever Brothers Company, New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,410. Published Mar. 31, 1953. Class 51.

576,714. Eau de Cologne. Lever Brothers Company, New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,411. Published Mar. 31, 1953. Class 51.

576,715. Eau de Cologne. Lever Brothers Company, New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,412. Published Mar. 31, 1953. Class 51.

576,716. Eau de Cologne. Lever Brothers Company, New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,413. Published Mar. 31, 1953. Class 51.

576,717. Ophthalmic Lenses and Lens Blanks. Modern Optics, Incorporated, Houston, Tex.
Filed Apr. 25, 1952, Serial No. 628,707. Published Mar. 17, 1953. Class 26.

576,718. Packaged Rice. Lesor Corporation, New York, N. Y.
Original filed, act of 1946, Supplemental Register, Apr. 29, 1952; amended to application, Principal Register, Jan. 15, 1953, Serial No. 628,862. Published Apr. 7, 1953. Class 46.

576,719. Concentrated Extracts in Liquid or Dry Form Used in Flavoring Food Products. Flavor Corporation of America, Chicago, Ill.
Filed May 3, 1952, Serial No. 629,159. Published Apr. 7, 1953. Class 46.

576,720. Invalid Wheel Chairs. Everest & Jennings, Inc., Los Angeles, Calif.
Filed May 5, 1952, Serial No. 629,193. Published Mar. 31, 1953. Class 44.

576,721. Column in a Periodical. Babson Bros. Co., Chicago, Ill.
Filed May 6, 1952, Serial No. 629,227. Published Mar. 31, 1953. Class 38.

576,722. Inhalation Anesthetic. Air Reduction Company, Incorporated, New York, N. Y.
Filed May 7, 1952, Serial No. 629,275. Published Oct. 14, 1952. Class 18.

576,723. Watches, Clocks, and Chronometers. Sévi S. A. (Joias e Relogios), Rio de Janeiro, Brazil.
Filed May 8, 1952, Serial No. 629,392. Published Apr. 14, 1953. Class 27.

576,724. Smoking Pipes and Parts Thereof and Smoking Pipe Filters. Glaser Bros., San Francisco, Calif.
Filed May 13, 1952, Serial No. 629,607. Published Mar. 31, 1953. Class 8.

576,725. Box Springs. Holman-O. D. Baker Co. Inc., East Boston, Mass.
Filed May 13, 1952, Serial No. 629,610. Published Apr. 14, 1953. Class 32.

576,726. Glass Sheets in Single or Multiple Layers. American Window Glass Company, Pittsburgh, Pa.
Filed May 14, 1952, Serial No. 629,646. Published Apr. 14, 1953. Class 33.

576,727. Safety Glass. American Window Glass Company, Pittsburgh, Pa.
Filed May 14, 1952, Serial No. 629,647. Published Apr. 14, 1953. Class 33.

576,728. Organic Compounds Having Hydrophobic and Hydrophilic Groupings Having Wetting, Detergent, Foaming, and Emulsifying Properties, Etc. Process Chemicals Company, Los Angeles, Calif.
Filed May 14, 1952, Serial No. 629,688. Published Apr. 7, 1953. Class 6.

576,729. Primary, Secondary, Tertiary, and Quaternary Amines Having Interface Modifying Properties, Etc. Process Chemicals Company, Los Angeles, Calif.
Filed May 14, 1952, Serial No. 629,690. Published Apr. 7, 1953. Class 6.

576,730. Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Grapes, and Fresh Vegetables. Hall, Haas & Vessey, Ltd., Los Angeles, Calif.
Filed May 19, 1952, Serial No. 629,892. Published Mar. 31, 1953. Class 46.

576,731. Piece Goods of Synthetic Fibers. William Heller, Incorporated, New York, N. Y.
Filed May 23, 1952, Serial No. 630,133. Published Apr. 14, 1953. Class 42.

576,732. Plastic Table Mats Intended To Be Used Under Plates, Dishes, Glasses, and the Like To Protect the Surface of the Table. Bernhard Ulmann Co. Inc., Long Island City, N. Y.
Filed May 24, 1952, Serial No. 630,244. Published Mar. 10, 1953. Class 50.

576,733. Industrial Chemicals—Namely, Cutting Oils. Pemaco Incorporated, Los Angeles, Calif.
Filed May 26, 1952, Serial No. 630,282. Published Apr. 7, 1953. Class 15.

576,734. Crystal Table Ware. "Minex" Centrala Eksportowo-Importowa Wytworow Przemyslu Mineralnego Przedsiebiorstwo Panstwowe, Warsaw, Poland. Priority under Sec. 44(d). Polish Registration No. 35,720, filed Mar. 6, 1952.
Filed May 27, 1952, Serial No. 630,366. Published Apr. 14, 1953. Class 33.

576,735. Watches—Namely, Wrist or Strap Watches. Bulova Watch Company, Inc., New York, N. Y.
Filed May 28, 1952, Serial No. 630,379. Published Apr. 14, 1953. Class 27.

576,736. Oil Heaters, Oil Burners, and Burner Pots for Use in Oil Heaters and Oil Burners. Breese Burners, Inc., Santa Fe, N. Mex.
Filed June 3, 1952, Serial No. 630,662. Published Mar. 17, 1953. Class 34.

576,737. Candles. Products of Cedar Cottage Limited, Vancouver, British Columbia, Canada.
Priority under Sec. 44(d). Canadian Registration No. 163/41,715, filed Feb. 9, 1952.
Filed June 3, 1952, Serial No. 630,680. Published Apr. 7, 1953. Class 15.

576,738. Fluids—Namely, Hydraulic Brake Fluids. Bendix Aviation Corporation, Detroit, Mich.
Filed June 4, 1952, Serial No. 630,698. Published Apr. 21, 1953. Class 6.

576,739. Polyvinyl Alcohol. American Monomer Corporation, Leominster, Mass.
Filed June 5, 1952, Serial No. 630,744. Published Apr. 21, 1953. Class 6.

576,740. Preparation for Reconditioning the Hair. K & J Co., Brooklyn, N. Y.
Filed June 5, 1952, Serial No. 630,783. Published Apr. 14, 1953. Class 51.

576,741. Piece Goods Made of Cotton, Wool, Silk, Rayon, or Combinations Thereof. The Kenyon Piece Dyeworks, Inc., Kenyon, R. I.
Filed June 5, 1952, Serial No. 630,784. Published Apr. 14, 1953. Class 42.

576,742. Netting for Use in the Fishing Industry. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada.
Filed June 6, 1952, Serial No. 630,836. Published Apr. 14, 1953. Class 42.

576,743. Gasoline and Lubricating Oils. Panoma Corporation, Amarillo, Tex.
Filed June 9, 1952, Serial No. 630,948. Published Mar. 31, 1953. Class 15.

576,744. Antibiotic and Vitamin Supplement for Livestock and Poultry Feeds. Vylactos Laboratories, Inc., Des Moines, Iowa.
Filed June 11, 1952, Serial No. 631,079. Published Mar. 31, 1953. Class 18.

576,745. Product for the Prevention and Control of Blackhead in Fowl. American Scientific Laboratories, Inc., Madison, Wis.
Filed June 14, 1952, Serial No. 631,197. Published Mar. 31, 1953. Class 18.

576,746. Dehydrated Alfalfa Used as a Dietary Supplemental Food for Human Consumption. Keystone Dehydrators, Nazareth, Pa.
Filed June 17, 1952, Serial No. 631,294. Published Apr. 7, 1953. Class 46.

576,747. Soil Conditioner. Perma-Rock Products, Inc., Baltimore, Md.
Filed June 17, 1952, Serial No. 631,306. Published Mar. 31, 1953. Class 10.

576,748. Frozen Fish and Frozen Fish Fillets. Paul Reinhart Co., Inc., New York, N. Y.
Filed June 18, 1952, Serial No. 631,375. Published Apr. 7, 1953. Class 46.

576,749. Gasoline Hose, Distillate Hose, Tank Wagon Hose, Etc. Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio.
Filed June 19, 1952, Serial No. 631,429. Published Apr. 21, 1953. Class 35.

576,750. Siliceous Material in Powdered or Finely Granular Form Used for Application to Unset Concrete Floors and the Like To Impart Non-Slip Properties Thereto When the Concrete Has Set. Sun Chemical Corporation, Long Island City, N. Y.
Filed June 20, 1952, Serial No. 631,504. Published Apr. 14, 1953. Class 6.

576,751. Powdered Soap, Flaked Soap, Bar Soap, and Dishwashing Detergent. Peck's Products Company, St. Louis, Mo.
Filed June 21, 1952, Serial No. 631,565. Published Apr. 14, 1953. Class 52.

576,752. Apparatus for Conditioning Air Adapted To Be Circulated Through Tobacco Barns—Namely, Gas Fired Curers. Bright Leaf Industries, Inc., Charlotte, N. C.
Filed June 23, 1952, Serial No. 631,600. Published Mar. 17, 1953. Class 34.

576,753. Apparatus for Conditioning Air Within Tobacco Barns—Namely, Gas-Fired Curers. Bright Leaf Industries, Inc., Charlotte, N. C.
Filed June 23, 1952, Serial No. 631,601. Published Mar. 24, 1953. Class 34.

576,754. Ceramic Dinnerware. National Silver Company, New York, N. Y.
Filed June 27, 1952, Serial No. 631,884. Published Mar. 31, 1953. Class 30.

576,755. Portland Cement. The Cement Marketing Company, Limited, London and Westminster, London, England.
Filed July 1, 1952, Serial No. 632,017. Published Mar. 31, 1953. Class 12.

576,756. Vitamin Preparation. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed July 1, 1952, Serial No. 632,049. Published Mar. 31, 1953. Class 18.

576,757. Cigars. W. G. Patterson Brokerage Co., Inc., doing business under the name and style of J. M. Martinez, Birmingham, Ala.
Filed July 3, 1952, Serial No. 632,174. Published Mar. 31, 1953. Class 17.

576,758. Insecticidal Preparation—Namely, a Residual Spray-Concentrate for Use in Grain Elevator and Farm Storage Units, Etc. The Weevil-Cide Company, Kansas City, Mo.
Filed July 3, 1952, Serial No. 632,184. Published Apr. 21, 1953. Class 6.

576,759. Treatment of Disorders From Intestinal Fermentation. John Beard Memorial Foundation, San Francisco, Calif.
Filed July 8, 1952, Serial No. 632,241. Published Mar. 31, 1953. Class 18.

576,760. Crushed and Sized Volcanic Glass—Namely, Perlite. Great Lakes Carbon Corporation, New York, N. Y.
Filed July 17, 1952, Serial No. 632,671. Published Mar. 31, 1953. Class 1.

576,761. Hydraulic Packing Compounds. MacNeel Pierce, doing business as Plastic and Rubber Products Company, Los Angeles, Calif.
Filed July 21, 1952, Serial No. 632,848. Published Apr. 14, 1953. Class 35.

576,762. Insulation Board. Bird & Son, Inc., East Walpole, Mass.
Filed July 22, 1952, Serial No. 632,869. Published Mar. 31, 1953. Class 12.

576,763. Cotton Piece Goods. Meb Export Co. Inc., New York, N. Y.
Filed July 22, 1952, Serial No. 632,891. Published Dec. 9, 1952. Class 42.

576,764. Coal. Clyborne, Inc., Bluefield, W. Va.
Filed July 28, 1952, Serial No. 633,143. Published Mar. 31, 1953. Class 1.

576,765. Feeding and Watering Troughs for Pigs and Hogs. Howard S. Brembeck, doing business as Chore Time Equipment Company, Alliance, Ohio.
Filed July 30, 1952, Serial No. 633,254. Published Apr. 7, 1953. Class 50.

576,766. Implements for Wiping and Dusting Purposes, Consisting of a Cloth or Cover and a Holder Therefor Having a Handle and Head. Callaway Mills Company, La Grange, Ga.
Filed July 31, 1952, Serial No. 633,298. Published Apr. 7, 1953. Class 29.

576,767. Chairs, Buffets, Tables, Cabinets, Sofas, Benches, Beds, Dressers, Vanities, Chests, Chests of Drawers, Highboys, Lowboys, Secretaries, Desks, Stools, Cupboards, Bookcases, Couches, Sideboards, Bureaus, and Mirrors. Tomlinson of High Point, High Point, N. C.
Filed July 31, 1952, Serial No. 633,340. Published Apr. 7, 1953. Class 32.

576,768. Pictorial Advertising Signs Composed of Plastic Material and Printed in Color or Black and White. William Melish Harris, New York, N. Y.
Filed Aug. 2, 1952, Serial No. 633,420. Published Mar. 31, 1953. Class 38.

576,769. Portable Filing Trays for File Cards. Wheeldex Manufacturing Co., Inc., White Plains, N. Y
Filed Aug. 4, 1952, Serial No. 633,472. Published Apr. 14, 1953. Class 32.

576,770. Astringent for Sour Stomach, Heartburn, Acid Eructations, Belching, Gas Flatulence, Wind Colic, and Simple Diarrhea Resulting From Dietary Intolerance. Merrick Medicine Company, also doing business as The Merrick Medicine Co., Waco, Tex.
Filed Aug. 11, 1952, Serial No. 633,731. Published Mar. 31, 1953. Class 18.

576,771. Porcelain Enamel Cleaner. G. N. Coughlan Company, West Orange, N. J.
Filed Aug. 13, 1952, Serial No. 633,837. Published Apr. 14, 1953. Class 52.

576,772. Beach and Garden Umbrellas. Macon Umbrella Corporation, New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,991. Published Apr. 14, 1953. Class 32.

576,773. Stuffed Toy Dogs. Ross & Ross, Oakland, Calif.
Filed Aug. 16, 1952, Serial No. 634,056. Published Mar. 24, 1953. Class 22.

576,774. Frozen Foods—Namely, Poultry, Fruits, Vegetables, and Ready-To-Bake Pies. Frozen Farm Products, Inc., Altoona, Pa.
Filed Aug. 19, 1952, Serial No. 634,141. Published Apr. 7, 1953. Class 46.

576,775. Piece Goods Made of Wool and Alpaca. S. Stein & Co., Inc., New York, N. Y.
Filed Aug. 20, 1952, Serial No. 634,221, Published Dec. 30, 1952. Class 42.

576,776. Watches and Parts of Watches. Rodania Ltd. (Rodania S. A.), Grenchen, Switzerland.
Filed Aug. 21, 1952, Serial No. 634,267. Published Mar. 31, 1953. Class 27.

576,777. Containers—Namely, Glass Bottles, for Photographic Solutions. Applecolor, Inc., Chicago, Ill.
Filed Aug. 22, 1952, Serial No. 634,286. Published Apr. 14, 1953. Class 33.

576,778. Magazine Published Monthly. Ziff-Davis Publishing Company, Chicago, Ill., and New York, N. Y.
Filed Aug. 25, 1952, Serial No. 634,428. Published Mar. 31, 1953. Class 38.

576,779. Novelty and Occasional Tables. Ashley-Rhodes, Inc., Louisville, Ky.
Filed Aug. 26, 1952, Serial No. 634,437. Published Apr. 7, 1953. Class 32.

576,780. Shampoo. The Gillette Company, Boston, Mass.
Filed Aug. 28, 1952, Serial No. 634,586. Published Apr. 14, 1953. Class 52.

576,781. Electronic Musical Instrument Capable of Reproducing the Tonal Qualities of a Plurality of Different Musical Instruments. Gibson, Inc., Kalamazoo, Mich.
Filed Aug. 29, 1952, Serial No. 634,639. Published Apr. 21, 1953. Class 36.

576,782. Paint Strippers, Cleaning Compounds of General Application and Compounds for Cleaning Metals, Etc. Pelron Corporation, Lyons, Ill.
Filed Sept. 2, 1952, Serial No. 634,753. Published Apr. 14, 1953. Class 52.

576,783. Polyvalent Metal Salts of Carboxylic Acids and Compositions Containing the Same, Etc. The Harshaw Chemical Company, Cleveland, Ohio.
Filed Sept. 4, 1952, Serial No. 634,848. Published Apr. 14, 1953. Class 6.

576,784. Engraved Greeting Cards. Joseph F. Stubler, doing business as Die Craft Card & Stationery Co., Chicago, Ill.
Filed Sept. 4, 1952, Serial No. 634,872. Published Apr. 7, 1953. Class 38.

576,785. Bedroom Furniture—Namely, Beds, Dressers, Chests of Drawers, Night Tables, Benches, and Vanities. Johnson-Carper Furniture Company, Inc., Roanoke, Va.
Filed Sept. 10, 1952, Serial No. 635,088. Published Apr. 14, 1953. Class 32.

576,786. Watches. Rexall Drug Company, Los Angeles, Calif.
Filed Sept. 10, 1952, Serial No. 635,096. Published Apr. 14, 1953. Class 27.

576,787. Finely Divided Barium Sulphate for Use as a Filler or Pigment. C. K. Williams & Co., Easton, Pa.
Filed Sept. 11, 1952, Serial No. 635,163. Published Apr. 14, 1953. Class 6.

576,788. Insecticides. National Distillers Products Corporation, New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,192. Published Apr. 14, 1953. Class 6.

576,789. Guide for Persons Seeking a Career in Business or Industry Presenting a Digest of Employment Opportunities in Various Companies, Their History, Operations, and Policies, Published Annually. Decision, Inc., Cincinnati, Ohio.
Filed Sept. 16, 1952, Serial No. 635,288. Published Apr. 7, 1953. Class 38.

576,790. Antipyretic and Spasmolytic Preparations and Pharmaceutical Preparations for Treatment of the Nervous System. Standard Pharmaceutical Co., Inc., New York, N. Y.
Filed Sept. 16, 1952, Serial No. 635,330. Published Mar. 31, 1953. Class 18.

576,791. Cereal Binder Utilized in Forming Pellets in the Purification of Taconite Ore. Archer-Daniels-Midland Company, Minneapolis, Minn.
Filed Sept. 19, 1952, Serial No. 635,455. Published Apr. 14, 1953. Class 5.

576,792. Folding Chairs and Tables, and Table Bases. Foldcraft Incorporated, Minneapolis, Minn.
Filed Sept. 19, 1952, Serial No. 635,468. Published Apr. 14, 1953. Class 32.

576,793. Penicillin Ointment. International Affiliated Corporation, Wilmington, Del.
Filed Sept. 23, 1952, Serial No. 635,654. Published Mar. 31, 1953. Class 18.

576,794. Desks. American Desk Manufacturing Co., Temple, Tex.
Filed Sept. 24, 1952, Serial No. 635,673. Published Apr. 14, 1953. Class 32.

576,795. Rubber Cements and Industrial Adhesives. Montgomery Bros., Inc., Philadelphia, Pa.
Filed Sept. 24, 1952, Serial No. 635,708. Published Apr. 21, 1953. Class 5.

576,796. Weekly Comic Section of a Daily Newspaper. The Post Printing and Publishing Company, Denver, Colo.
Filed Sept. 24, 1952, Serial No. 635,714. Published Mar. 24, 1953. Class 38.

576,797. Clocks and Watches, and Parts Thereof. Gebruder Junghans Aktiengesellschaft, Schramberg/Schwarzwald, Wurttemberg, Germany.
Filed Sept. 26, 1952, Serial No. 635,827. Published Apr. 14, 1953. Class 27.

576,798. Camera Cases, Fitted Cases Designed for Photographic Accessories, Etc. Lederwarenfabrik Kritzler K. G., Rebbelroth, Cologne, Germany.
Filed Sept. 26, 1952, Serial No. 635,837. Published Apr. 7, 1953. Class 26.

576,799. Textile Softeners and Textile Lubricants. The Tanatex Chemical Corporation, Jersey City, N. J.
Filed Sept. 26, 1952, Serial No. 635,858. Published Apr. 14, 1953. Class 6.

576,800. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co. Inc., New York, N. Y.
Filed Oct. 1, 1952, Serial No. 636,010. Published Apr. 14, 1953. Class 42.

576,801. Mountings for Finger Rings and Finger Ring Sets. Feature Ring Co., Inc., New York, N. Y.
Filed Oct. 2, 1952, Serial No. 636,071. Published Mar. 31, 1953. Class 28.

576,802. Newspaper Column. New York Herald Tribune Inc., New York, N. Y.
Filed Oct. 2, 1952, Serial No. 636,088. Published Mar. 14, 1953. Class 38.

576,803. Game Comprising Dice, a Dice Cup, and Score Sheet. Colgar & Company, Roswell, N. Mex.
Filed Oct. 3, 1952, Serial No. 636,116. Published Apr. 7, 1953. Class 22.

576,804. Comic Strip. New York Herald Tribune Inc., New York, N. Y.
Filed Oct. 3, 1952, Serial No. 636,144. Published Mar. 31, 1953. Class 38.

576,805. Cleaning Compound in Granular Form Especially Adapted for Cleaning Commercial and Industrial Bake Pans. The Diversey Corporation, Chicago, Ill.
Filed Oct. 4, 1952, Serial No. 636,168. Published Apr. 14, 1953. Class 52.

576,806. Extendible Figure Toys. The Judy Company, Minneapolis, Minn.
Filed Oct. 6, 1952, Serial No. 636,237. Published Apr. 7, 1953. Class 22.

576,807. Bird Seed. John C. Saleen, doing business as Mackall Products Co., El Monte, Calif.
Filed Oct. 6, 1952, Serial No. 636,255. Published Apr. 14, 1953. Class 46.

576,808. Nitrogen-Containing Solutions, Suitable for Use as Fertilizers and in the Manufacture of Fertilizers. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Oct. 7, 1952, Serial No. 636,265. Published Apr. 7, 1953. Class 10.

576,809. Wool Fabrics in the Piece. Miron Mills, Inc., Clinton, Mass.
Filed Oct. 7, 1952, Serial No. 636,300. Published Apr. 14, 1953. Class 42.

576,810. Wool Fabrics in the Piece. Miron Mills, Inc., Clinton, Mass.
Filed Oct. 7, 1952, Serial No. 636,301. Published Apr. 14, 1953. Class 42.

576,811. Cartoons. Charles E. David, Jr., Clio, S. C.
Filed Oct. 8, 1952, Serial No. 636,349. Published Mar. 31, 1953. Class 38.

576,812. Periodical Publication. Swift & Company, Chicago, Ill.
Filed Oct. 8, 1952, Serial No. 636,390. Published Mar. 31, 1953. Class 38.

576,813. Watches. Saxony Watch Co., New York, N. Y.
Filed Oct. 9, 1952, Serial No. 636,436. Published Apr. 14, 1953. Class 27.

576,814. Tires and Tubes for Automobiles, Motorcycles, Farm Vehicles, Trucks, and Bicycles. Biddle Purchasing Company, doing business as Meridian Distributors, New York, N. Y.
Filed Oct. 10, 1952, Serial No. 636,458. Published Apr. 14, 1953. Class 35.

576,815. Fertilizers. Oklahoma Fertilizer & Chemical Co., Oklahoma City, Okla.
Filed Oct. 10, 1952, Serial No. 636,488. Published Apr. 7, 1953. Class 10.

576,816. Cure for Bacon Comprising Salt, Sugars, Sodium Nitrite, Sodium and Potassium Nitrates, and Spices. Meat Industry Suppliers, Inc., Chicago, Ill.
Filed Oct. 11, 1952, Serial No. 636,533. Published Apr. 14, 1953. Class 46.

576,817. Baby Blankets, Carriage Covers, Bed Spreads, Quilts, Crib Spreads. Triboro Mfg. Inc., New York, N. Y.
Filed Oct. 15, 1952, Serial No. 636,661. Published Apr. 14, 1953. Class 42.

576,818. Magazine Published Periodically. Interstate Publishing Corp., New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,711. Published Apr. 7, 1953. Class 38.

576,819. Comic Drawings Published in Daily Newspapers. United Feature Syndicate, Inc., New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,752. Published Mar. 31, 1953. Class 38.

576,820. Watches—Namely, Wrist or Strap Watches. Bulova Watch Company, Inc., New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,768. Published Apr. 14, 1953. Class 27.

576,821. Detergent in Powder Form. The Great Atlantic and Pacific Tea Company, New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,785. Published Apr. 14, 1953. Class 52.

576,822. Liquid Glues. Stein, Hall & Company, Inc., New York, N. Y.
Filed Oct. 17, 1952, Serial No. 636,816. Published Apr. 14, 1953. Class 5.

576,823. Water-Proofed and Fireproofed Fabrics in the Piece. Cooley, Incorporated, Pawtucket, R. I.
Filed Oct. 18, 1952, Serial No. 636,842. Published Apr. 14, 1953. Class 42.

576,824. Fishing Reels. J. W. Young & Sons Limited, Mayfields, Redditch, England.
Filed Oct. 18, 1952, Serial No. 636,869. Published Apr. 14, 1953. Class 22.

576,825. Fishing Reels. J. W. Young & Sons Limited, Mayfields, Redditch, England.
Filed Oct. 18, 1952, Serial No. 636,870. Published Apr. 14, 1953. Class 22.

576,826. Golf Gloves. J. McLean Johnston, Philadelphia, Pa.
Filed Oct. 20, 1952, Serial No. 636,893. Published Apr. 14, 1953. Class 22.

576,827. Woolen Fabrics in the Piece Composed Wholly or in Substantial Part of Llama Wool. Lambeth Woolens, Inc., New York, N. Y.
Filed Oct. 22, 1952, Serial No. 636,987. Published Apr. 14, 1953. Class 42.

576,828. Catalyst. American Cyanamid Company, New York, N. Y.
Filed Oct. 23, 1952, Serial No. 637,028. Published Apr. 14, 1953. Class 6.

576,829. Seasoning for Gravies, Sauces, Soups, and Stews. Gravymaster Company, Inc., Long Island City, N. Y.
Filed Oct. 23, 1952, Serial No. 637,046. Published Apr. 7, 1953. Class 46.

576,830. Canned Seafood—Namely, Shrimp, Oysters, and Crab Meat. Graham Sea Food Co., Bayou La Batre, Ala.
Filed Oct. 24, 1952, Serial No. 637,123. Published Apr. 14, 1953. Class 46.

576,831. Section of Periodical Publication. Down Beat, Incorporated, Chicago, Ill.
Filed Oct. 25, 1952, Serial No. 637,173. Published Apr. 7, 1953. Class 38.

576,832. Sterling Silver Flatware and Hollow Ware. J. W. Wolfenden Corporation, Attleboro, Mass.
Filed Oct. 25, 1952, Serial No. 637,200. Published Mar. 31, 1953. Class 28.

576,833. Synthetic Resins and Solutions Containing the Same for Bonding, Laminating, and Adhesive Purposes. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Oct. 27, 1952, Serial No. 637,209. Published Apr. 14, 1953. Class 5.

576,834. Poultry and Live Stock Feeds. Zehr & Company, Pettisville, Ohio.
Filed Nov. 1, 1952, Serial No. 637,512. Published Apr. 14, 1953. Class 46.

576,835. Fresh Deciduous Fruits. Boehmer, Inc., Wenatchee, Wash.
Filed Nov. 4, 1952, Serial No. 637,567. Published Apr. 7, 1953. Class 46.

576,836. Bleach and Bluing. Otha Forrest Sullivan, doing business as Nu-Way Products Company, Bristow, Okla.
Filed Nov. 7, 1952, Serial No. 637,797. Published Apr. 21, 1953. Class 6.

576,837. Weed Killer. Spencer Chemical Company, Kansas City, Mo.
Filed Nov. 17, 1952, Serial No. 638,221. Published Apr. 14, 1953. Class 6.

576,838. Garden Hose. The Gates Rubber Company, Denver, Colo.
Filed Nov. 19, 1952, Serial No. 638,298. Published Apr. 14, 1953. Class 35.

576,839. Macaroni. Minnesota Macaroni Company, St. Paul, Minn.
Filed Nov. 19, 1952, Serial No. 638,305. Published Apr. 14, 1953. Class 46.

576,840. Photographic Processing Chemicals—Namely, Activator, Stop Bath, and Stripping Solvent. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Nov. 21, 1952, Serial No. 638,408. Published Apr. 14, 1953. Class 6.

576,841. Solid Catalyst. Universal Oil Products Company, Des Plaines, Ill.
Filed Nov. 22, 1952, Serial No. 638,506. Published Apr. 14, 1953. Class 6.

576,842. Protein Additive for Light-Weight Concrete Cementitious Mixes. Van Hoven Company, Inc., St. Paul, Minn.
Filed Nov. 24, 1952, Serial No. 638,540. Published Apr. 14, 1953. Class 6.

576,843. Leather Belting for Sewing Machines. Superior Sewing Machine and Supply Corp., New York, N. Y.
Filed Dec. 2, 1952, Serial No. 638,883. Published Apr. 14, 1953. Class 35.

576,844. Woven Elastic Textile Fabric Made of Cotton, Rayon, or Nylon, or Combinations Thereof, in Combination With Rubber and/or Elastic Yarn. S. M. S. Textile Mills, Allentown, Pa.
Filed Nov. 3, 1952, Serial No. 638,932. Published Apr. 14, 1953. Class 42.

576,845. Bakery Products—Namely, Bread. Interstate Bakeries Corporation, Kansas City, Mo., doing business as Schulze Baking Company, Chicago, Ill., Cincinnati, Ohio, Omaha, Nebr., and elsewhere.
Filed Dec. 6, 1952, Serial No. 639,116. Published Apr. 7, 1953. Class 46.

576,846. Imitation Maple Butter and Imitation Maple Peanut Butter. Wilfred Bibeau, doing business under the name Bibeau, Waterbury, Conn.
Filed Dec. 9, 1952, Serial No. 639,204. Published Apr. 7, 1953. Class 46.

576,847. Alimentary Paste Products—Namely, Spaghetti, Macaroni, Etc. Golden Grain Macaroni Co., San Leandro, Calif.
Filed Dec. 9, 1952, Serial No. 639,222. Published Apr. 7, 1953. Class 46.

576,848. Frozen Vegetables. Bay City Freezer, Inc., Bay City, Mich.
Filed Dec. 13, 1952, Serial No. 639,408. Published Apr. 7, 1953. Class 46.

576,849. Bakers' Confections—Namely, Fruit Bars. Zion Industries, Inc., doing business under the trade style of Suzette Bakers, Zion, Ill.
Filed Dec. 23, 1952, Serial No. 639,972. Published Apr. 7, 1953. Class 46.

576,850. Canned Fish and Frozen Fish. Del Mar Canning Co., Monterey, Calif.
Filed Dec. 29, 1952, Serial No. 640,107. Published Apr. 14, 1953. Class 46.

576,851. Insecticide. American Cyanamid Company, New York, N. Y.
Filed Jan. 2, 1953, Serial No. 640,250. Published Apr. 14, 1953. Class 6.

576,852. Liquid Composition for Regulating Acid ("Pickle") Baths Used in the Treatment of Metal Surfaces. Inter-Coastal Paint Corporation, East St. Louis, Ill.
Filed Jan. 2, 1953, Serial No. 640,281. Published Apr. 21, 1953. Class 6.

576,853. Fresh Melons and Fresh Vegetables. Holtville Vegetable Company, Holtville, Calif.
Filed Jan. 12, 1953, Serial No. 640,634. Published Apr. 14, 1953. Class 46.

576,854. Gaskets. Rieke Metal Products Corporation, Auburn, Ind.
Filed Jan. 29, 1953, Serial No. 641,520. Published Apr. 21, 1953. Class 35.

Service Marks

576,855. Selling of Advertising Time on Radio Broadcasting Stations, Etc. Keystone Broadcasting System, Inc., Chicago, Ill.
Filed July 6, 1950, Serial No. 600,289. Published Apr. 7, 1953. Class 101.

576,856. Collection, Analysis, and Dissemination in Statistical Form of Information on the Economic Condition and Progress of the Industry; Etc. National Paper Box Manufacturers Association, Incorporated, Philadelphia, Pa.
Filed Sept. 20, 1950, Serial No. 604,214. Published Apr. 7, 1953. Class 101.

576,857. Acting as Independent Agent in Connection With the Advertising and Sale of Radio Broadcasting Time for Independent Broadcasting Companies. Indie Sales, Inc., New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,914. Published Apr. 7, 1953. Class 101.

576,858. Beauticians' Services—Namely, Hair Dressing and Hair Dyeing Services, Giving Beauty Culture and Reducing Exercises. Helena Rubinstein, Inc., New York, N. Y.
Filed June 8, 1951, Serial No. 614,958. Published Apr. 14, 1953. Class 100.

576,859. Shoe Repairing. Zinke Rebottoming Shoe Company, Inc., San Francisco, Calif.
Filed July 23, 1951, Serial No. 616,837. Published Apr. 14, 1953. Class 103.

576,860. Engineering and Consulting Services to the Needle-Trade Industries—Namely, Planning Layouts To Insure Greatest Manufacturing Efficiency, Designing Factory Equipment To Meet Requirements of Clients, and Directing the Erection and Layout of Equipment Within a Client's Factory. The Singer Manufacturing Company, Elizabeth, N. J.
Filed May 14, 1952, Serial No. 629,697. Published Apr. 7, 1953. Class 100.

576,861. Sharpening, Re-Sharpening, Salvaging, and Rehabilitating Cutting Tools Used Especially in the Aircraft Industry. Globe Engineering Company, St. Louis, Mo.
Filed Aug. 19, 1952, Serial No. 634,142. Published Apr. 14, 1953. Class 103.

Certification Mark

576,862. Food Chips Comprising Cheese and Vegetable-Flavored Wafer-Like Products Which Are Fried and Simulate Potato Chips in Appearance. J. Clair Lanning, Lincoln, Nebr.
Filed July 13, 1951, Serial No. 616,428. Published Apr. 7, 1953. Class 46.

Collective Mark

576,863. Stimulation and Maintenance of Interest in Academic and Fraternal Affairs, the Promotion of Highest Standards of Conduct Consistent With Good Taste and Morals, and the Encouragement of the Fullest Intellectual, Physical, and Social Personal Development of the Students. The Fraternity of Phi Gamma Delta, Washington, D. C.
Filed Aug. 16, 1952, Serial No. 633,286. Published Apr. 7, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

576,864. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Warner & Swasey Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Aug. 12, 1947; amended to application, Supplemental Register, Mar. 3, 1953, Serial No. 531,167.

ELECTRO-CYCLE

For Machine Tools—Namely, Turret Lathes.
Claims use since Apr. 1, 1947.

576,865. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) National Sales, Inc., Wichita, Kans. Original filed, act of 1946, Principal Register, Apr. 6, 1949; amended to application, Supplemental Register, Oct. 10, 1951, Serial No. 576,712.

GREZ-GUN

For Grease Guns of the Hand Operated Pressure Type.
Claims use since Mar. 10, 1949.

576,866. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Emanuele Bona, doing business under the firm name Lanificio Basilio Bona, Caselle Torinese, Turin, Italy. Original filed, act of 1946, Principal Register, Apr. 20, 1950; amended to application, Supplemental Register, Mar. 30, 1951, Serial No. 596,032.

BONA

Applicant claims ownership of Italian Registration No. 36,747, dated Sept. 23, 1927.
For Textile Fabrics Made of Wool.

576,867. (Class 36. Musical Instruments and Supplies.) Sacred Records, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 3, 1951; amended to application, Supplemental Register, Jan. 13, 1953, Serial No. 608,325.

Sacred

No claim is made for the word "Sacred" or the representation of the Cross apart from the entire combination.
For Mechanically Grooved Phonograph Records for Mechanical Reproduction.
Claims use since June 1946.

576,868. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) The Franklin C. Wolfe Company, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 5, 1951; amended to application, Supplemental Register, Apr. 24, 1953, Serial No. 610,884.

Lock O Seal

For Sealing Washers Made of Rubber and Metal.
Claims use since Jan. 14, 1947.

576,869. (Class 36. Musical Instruments and Supplies.) Ditta I. Busilacchio & Fili., Osimo, Italy. Original filed, act of 1946, Principal Register, July 12, 1951; amended to application, Supplemental Register, May 20, 1952, Serial No. 616,370.

I. BUSILACCHIO

Applicant claims ownership of Italian Registration No. 68,369, dated Feb. 4, 1946.
For Accordions and Parts Thereof.

576,870. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Wiley T. Stockett, Jr., Mesa, Ariz. Original filed, act of 1946, Principal Register, Nov. 30, 1951; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 621,914.

STOCKETT

For Power Driven Log Stop and Kicker and Log Turner Apparatus for Receiving, Turning, Positioning, and Discharging Logs in Connection With Saw Mill Rig Carriages.
Claims use since July 15, 1950.

576,871. (Class 24. Laundry Appliances and Machines.) Speedy Washer Manufacturing Co., Miami, Fla. Original filed, act of 1946, Principal Register, Jan. 7, 1952; amended to application, Supplemental Register, Apr. 27, 1953, Serial No. 623,288.

SPEEDY

Applicant claims ownership of Registration No. 319,283.
For Washing Machines.
Claims use since January 1947.

576,872. (Class 4. Abrasives and Polishing Materials.) Barton Manufacturing Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, Feb. 11, 1952; amended to application, Supplemental Register, Feb. 4, 1953, Serial No. 624,775.

Hav-A-Shine

For Shoe Polishing Kit Consisting of a Brush, Dauber, Polishing Cloth, and Can of Stain Paste Polish.
Claims use since Dec. 28, 1951.

576,873. (Class 18. Medicines and Pharmaceutical Preparations.) Pickwick Products Company, Elgin, Ill. Original filed, act of 1946, Principal Register, Mar. 27, 1952; amended to application, Supplemental Register, Apr. 16, 1953, Serial No. 627,147.

DIDEEDIP

For Antiseptic Composition for Preventing Diaper Rash.
Claims use since Mar. 13, 1952.

576,874. (Class 46. Foods and Ingredients of Foods.) Pratt-Low Preserving Company, Santa Clara, Calif. Original filed, act of 1946, Principal Register, Mar. 31, 1952; amended to application, Supplemental Register, Jan. 2, 1953, Serial No. 627,355.

DIET-SWEET

For Canned Fruit Cocktail, Canned Fruits and Vegetables, Canned Fruit and Vegetable Juices, Preserved and Dried Fruits, Jams, Jellies, and Fruit Preserves, and Frozen and Dehydrated Fruits and Vegetables.
Claims use since Dec. 21, 1951.

576,875. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Marcel J. Von Wertaur, New York, N. Y. Original filed, act of 1946, Principal Register, May 24, 1952; amended to application, Supplemental Register, Nov. 15, 1952, Serial No. 631,960.

COFFEE-E-CONOMIZER

For Coffee Percolators.
Claims use since Sept. 11, 1950.

576,876. (Class 22. Games, Toys, and Sporting Goods.) Eben L. Scott, Kansas City, Mo. Original filed, act of 1946, Principal Register, July 21, 1952; amended to application, Supplemental Register, Apr. 30, 1953, Serial No. 632,852.

ROLLY ROCKY

For Tiltably Supported Ridable Toy in the Nature of a Rocking Horse but Having a Body Simulating a Boat or Airplane and Being Tiltable in More Than One Direction.
Claims use since Mar. 8, 1949.

576,877. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corporation, Hatboro, Pa. Original filed, act of 1946, Principal Register, Aug. 29, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 634,623.

KIDD-E-DOCTOR

For Toy Containing "Band-Aid" Adhesive Strips, Sterile Bandage, Sterile Gauze Pads, Sterile Cotton, "Mercurochrome" Bottle With Stopper and Applicator, Adhesive Tape, Pill Bottles and Caps, Cotton Dispenser Jar and Cap, Forceps, Stethoscope, Funnel, Spoon, Measuring Cup, Wrist Watch, Tongue Depressers, Thermometer, Eyeglasses, Sciasors, Diploma, Prescription Blanks, Satchel, Trays.
Claims use since Feb. 7, 1952.

576,878. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corporation, Hatboro, Pa. Original filed, act of 1946, Principal Register, Aug. 29, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 634,624.

KIDD-E-NURSE

For Toy Containing "Band Aid" Adhesive Strips, Sterile Bandage, Sterile Gauze Pads, Sterile Cotton, "Mercurochrome" Bottle With Stopper and Applicator, Adhesive Tape, Pill Bottles and Caps, Cotton Dispenser Jar and Cap, Forceps, Stethoscope, Funnel, Spoon, Measuring Cup, Wrist Watch, Tongue Depressers, Thermometer, Eyeglasses, Scissors, Diploma, Prescription Blanks, Satchel, Trays.
Claims use since Feb. 7, 1952.

576,879. (Class 46. Foods and Ingredients of Foods.) House of Huston, Inc., Miami and Coral Gables, Miami, Fla. Original filed, act of 1946, Principal Register, Oct. 27, 1952; amended to application, Supplemental Register, Apr. 7, 1953, Serial No. 637,254.

Finer Dinner

For Bird Seed.
Claims use since Mar. 27, 1952.

TRADE-MARK REGISTRATIONS RENEWED

41,054. REX. Registered Sept. 1, 1903. Fred. Gretsch, New York, N. Y. Re-renewed Sept. 1, 1953, to The Fred. Gretsch Mfg. Co., Brooklyn, N. Y., a corporation of New York. Violins, Banjos, Mandolins, Etc. Class 36.

41,082. SHINOLA. Registered Sept. 8, 1903. American Chemical Manufacturing & Mining Co., Rochester, N. Y. Re-renewed Sept. 8, 1953, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey. Shoe-Polish. Class 4.

90,045. LAUREL BRAND. Registered Mar. 11, 1913. The F. & R. Lazarus & Co., Columbus, Ohio. Re-renewed Mar. 11, 1953, to Federated Department Stores, Inc., Cincinnati, Ohio, a corporation of Delaware. Men's and Women's Hosiery. Class 39.

90,700. "MAGIC" ETC. AND DESIGN. Registered Mar. 18, 1913. W. T. Hanson Co., Schenectady, N. Y. Re-renewed Mar. 18, 1953, to W. T. Hanson Co., New York, N. Y., a corporation of New York. Corn-Salve. Class 18.

90,857. SOLITAIRE. Registered Mar. 25, 1913. Morey Mercantile Company, Denver, Colo., a corporation of Colorado. Re-renewed Mar. 25, 1953. Baking-Powder. Class 46.

90,965. ELASTITE. Registered Apr. 8, 1913. The Philip Carey Manufacturing Company, Lockland, Ohio, a corporation of Ohio. Re-renewed Apr. 8, 1953. Fillers for Street Pavements, Sidewalks, Bridges, Etc. Class 12.

91,039. WHITE ROSE. Registered Apr. 8, 1913. Seeman Brothers. Re-renewed Apr. 8, 1953, to Seeman Brothers, Inc., New York, N. Y., a corporation of New York. Coffee. Class 46.

91,050. VITROLITE. Registered Apr. 8, 1913. The Vitrolite Company, Parkersburg, W. Va. Re-renewed Apr. 8, 1953, to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio. Tiles. Class 12.

91,241. ALPHA. Registered Apr. 22, 1913. Parker, Stearns & Company, New York and Brooklyn, N. Y. Re-renewed Apr. 22, 1953, to Parker, Stearns & Company, New York, N. Y., a corporation of New York. Syringes, Water-Bottles, Catheters, Etc. Class 44.

91,589. REPRESENTATION OF THREE PANELS CONTAINING IMAGES. Registered May 13, 1913. M. Melachrino & Co., assignor to M. Melachrino & Co., Incorporated, a corporation of New York. Re-renewed May 13, 1953, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey. Cigarettes. Class 17.

91,678. MELACHRINO. Registered May 20, 1913. M. Melachrino & Co., assignor to M. Melachrino & Co. Incorporated, a corporation of New York. Re-renewed May 20, 1953, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey. Cigarettes. Class 17.

92,282. STARK TREES. Registered June 24, 1913. Stark Bro's Nurseries & Orchards Co., Louisiana, Mo., a corporation of Missouri. Re-renewed June 24, 1953. Fruit-Trees, Fruit-Plants, and Hardy Ornamentals. Class 1.

92,421. "G" AND DESIGN. Registered July 8, 1913. The Griscom-Russell Co., New York, N. Y. Re-renewed July 8, 1953, to The Griscom-Russell Company, Massillon, Ohio, a corporation of Delaware. Feed-Water Heaters, Hot-Water Heaters, Evaporators, Etc. Class 34.

92,589. "COMET" AND DESIGN. Registered July 15, 1913. Seaboard Rice Milling Co., Galveston, Tex. Re-renewed July 15, 1953, to Comet Rice Mills, Houston, Tex., a corporation of Texas. Cereal Breakfast Food. Class 46.

93,118. "OLE RELIABLE" AND DESIGN. Registered Aug. 19, 1913. George W. Sanborn & Son, Astoria, Oreg. Re-renewed Aug. 19, 1953, to P. E. Harris Company, Inc., Seattle, Wash., a corporation of Washington. Canned Salmon. Class 46.

93,418. "PERMATEX" AND DESIGN. Registered Sept. 16, 1913. Constant Benoit, New York, N. Y. Re-renewed Sept. 16, 1953, to Permatex Company, Inc., Brooklyn, N. Y., a corporation of New York. Ready-Mixed Adhesive Shellac. Class 5.

93,543. "PERES CHARTREUX" ETC. AND DESIGN. Registered Sept. 23, 1913. La Union Agricola Sociedad Anonima, Barcelona, Spain. Re-renewed Sept. 23, 1953, to Chartreuse Corporation, New York, N. Y., a corporation of New York. Liqueurs. Class 49.

298,718. POULTRYLAND. Registered Nov. 1, 1932. Borden Quality, Inc., New York, N. Y. Renewed Nov. 1, 1952, to Frank Pilley & Sons, Inc., Sioux City, Iowa, a corporation of Delaware. Dressed Poultry and Eggs. Class 46.

298,721. FARM FIELD. Registered Nov. 1, 1932. Borden Quality, Inc., New York, N. Y. Renewed Nov. 1, 1952, to Frank Pilley & Sons, Inc., Sioux City, Iowa, a corporation of Delaware. Cheese, Butter, Dressed Poultry, and Eggs. Class 46.

300,030. "GIDE-RITE" AND DESIGN. Registered Jan. 3, 1933. The American Steel and Wire Company of New Jersey, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., Worcester, Mass., and Hoboken, N. J. Renewed Jan. 3, 1953, to United States Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey. Metal Fence Posts. Class 13.

300,206. SILVER DOLLAR. Registered Jan. 10, 1933. Distillers Corporation Limited, Montreal, Quebec, Canada. Renewed Jan. 10, 1953, to Carstairs Bros. Distilling Co., Inc, New York, N. Y., a corporation of Maryland. Whiskey. Class 49.

300,493. FARMLAND. Registered Jan. 24, 1933. Borden's Produce Company, Inc., Omaha, Nebr. Renewed Jan. 24, 1953, to Frank Pilley & Sons, Inc., Sioux City, Iowa, a corporation of Delaware. Condensed Buttermilk. Class 46.

301,887. SHAMROCK. Registered Mar. 21, 1933. Central Fibre Products Co., Inc., Hutchinson, Kans., a corporation of Delaware. Renewed Mar. 21, 1953. Wall Board. Class 12.

301,897. "DR. DRALLE'S" ETC. AND DESIGN. Registered Mar. 21, 1933. Georg Dralle, Hamburg, Germany, a firm organized under the laws of the Federal Republic of Germany. Renewed Mar. 21, 1953. Perfumery. Class 51.

301,948. ACCELEROL. Registered Mar. 21, 1933. Fischer's Surfa-Saver, Inc. Renewed Mar. 21, 1953, to Fischer Industries, Inc., Cincinnati, Ohio, a corporation of Ohio. Saponaceous Material Used as an Ingredient of Soap. Class 52.

302,000. SECRETARIAL. Registered Mar. 21, 1933. L. C. Smith & Corona Typewriters, Inc., New York, N. Y. Renewed Mar. 21, 1953, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York. Typewriting Machines. Class 23.

302,010. RYERTEX. Registered Mar. 21, 1933. Joseph T. Ryerson & Son, Inc. Renewed Mar. 21, 1953, to Joseph T. Ryerson & Son, Inc., Chicago, Ill., a corporation of Delaware. Machinery Bearings and Bearing Collars. Class 23.

302,062. "CORA" AND DRAWING. Registered Mar. 28, 1933. A. J. Capone Company. Renewed Mar. 28, 1953, to Olive Oil Industry, Inc., New York, N. Y., a corporation of New York. Canned Tomato Paste, Canned Tomatoes, and Canned Sardines Packed in Olive Oil. Class 46.

302,252. BELLE-SHARMEER. Registered Apr. 4, 1933. Wayne Knitting Mills, Fort Wayne, Ind., a corporation of Indiana. Renewed Apr. 4, 1953. Hosiery. Class 39.

302,337. REPRESENTATION OF THREE PLUMES IN CONVENTIONAL DESIGN. Registered Apr. 11, 1933. Shuron Optical Company, Inc. Renewed Apr. 11, 1953, to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York. Spectacles, Eyeglasses, and Parts Thereof. Class 26.

302,370. THERMEX. Registered Apr. 18, 1933. The C. F. Pease Company, Chicago, Ill., a corporation of Delaware. Renewed Apr. 18, 1953. Arclamp Globes of Glass. Class 34.

302,457. SURGILUBE. Registered Apr. 18, 1933. Day Chemical Company. Renewed Apr. 18, 1953, to Day-Baldwin, Inc., Newark, N. J., a corporation of New York. Surgical Lubricating Jelly. Class 18.

302,527. ROMANZA. Registered Apr. 25, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed Apr. 25, 1953. Woolen Piece Goods. Class 42.

302,538. BABY ARISTOCRAT. Registered Apr. 25, 1933. The May Department Stores Company, St. Louis, Mo., a corporation of New York. Renewed Apr. 25, 1953. Blankets. Class 42.

302,578. "BANKARU" AND DESIGN. Registered Apr. 25, 1933. Adam Hat Stores, Inc., New York, N. Y., a corporation of New York. Renewed Apr. 25, 1953. Men's Hats. Class 39.

302,640. "M SELECTED FIELD SEED" ETC. Registered Apr. 25, 1933. Ed. F. Mangelsdorf & Brother. Renewed Apr. 25, 1953, to Ed. F. Mangelsdorf & Bro. Inc., St. Louis, Mo., a corporation of Missouri. Field Seeds and Grain Seeds. Class 1.

302,788. RIPPLANESE. Registered Apr. 25, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Apr. 25, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

302,790. SHEERANESE. Registered Apr. 25, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Apr. 25, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

302,916. REPRESENTATION OF BAT WITHIN CIRCLE, ETC. Registered May 2, 1933. Compania Ron Bacardi, S. A., Santiago de Cuba, Cuba, a company organized under the laws of the Republic of Cuba. Renewed May 2, 1953. Rum. Class 49.

303,103. XPANDO. Registered May 9, 1933. The Nuiomoline Company. Renewed May 9, 1953, to American Molasses Company, New York, N. Y., a corporation of New York. Sugar. Class 46.

303,211 „HULSTKAMP." ETC. AND DESIGN. Registered May 16, 1933. Hulstkamp & Zoon & Mollin. Renewed May 16, 1953, to Hulstkamp & Zoon & Mollin N. V., Rotterdam, Holland, a joint stock company organized under the laws of the Kingdom of the Netherlands. Gin. Class 49.

303,275. HUSTLER. Registered May 16, 1933. Western Clock Company, Peru, Ill. Renewed May 16, 1953, to General Time Corporation, La Salle, Ill., a corporation of Delaware. Clocks and Watches. Class 27.

303,513. EUMERCIN. Registered May 30, 1933. Warwick Chemical Company, West Warwick, R. I. Renewed May 30, 1953, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Products for Use as an Assistant for Mercerizing and Similar Treatment on Vegetable and Artificial Fibres. Class 6.

303,756. VELVANESE. Registered June 6, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed June 6, 1953. Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives. Class 42.

304,009. "ADET" ETC. AND DESIGN. Registered June 13, 1933. Adet Seward (Ste Anonyme), Bordeaux, France, a joint stock company organized under the laws of France. Renewed June 13, 1953. Brandy. Class 49.

304,084. NINON FASONAY. Registered June 20, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed June 20, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

304,276. REPRESENTATION OF RED BAND. Registered June 27, 1933. J. W. Beardsley's Sons, Newark, N. J., a corporation of New Jersey. Renewed June 27, 1953. Prepared Meat and Fish Products—Namely, Corned and Dried Beef, Sliced Bacon, Etc. Class 46.

304,304. "BUSTER BRAND" ETC. AND DESIGN. Registered June 27, 1933. The Albert Dickinson Company. Renewed June 27, 1953, to The Albert Dickinson Company, Chicago, Ill., a corporation of Illinois. Popcorn Dressing Made of Pure Cocoanut Oil. Class 46.

304,595. ORGANZEL. Registered July 11, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed July 11, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

304,722. SPUNNESE. Registered July 18, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed July 18, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

304,811. CLIPPER CLOUDY. Registered July 18, 1933. Foote & Jenks, Inc., Jackson, Mich., a corporation of Michigan. Renewed July 18, 1953. Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Sirups and Extracts for Making the Same. Class 45.

304,942. CELAFLEX. Registered July 25, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed July 25, 1953. Men's, Women's, and Children's Underwear. Class 39.

305,049. TYTON. Registered July 25, 1933. Republic Steel Corporation, doing business as Toncan Culvert Manufacturers Association, Youngstown, Ohio. Renewed July 25, 1953, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Road and Highway Guards and Parts Thereof. Class 12.

305,209. MULTILITH. Registered Aug. 8, 1933. Multigraph Company, Wilmington, Del., and Cleveland, Ohio. Renewed Aug. 8, 1953, to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware. Printing Ink. Class 11.

305,331. "NEWS-WEEK" AND DESIGN. Registered Aug. 15, 1933. News-Week Inc. Renewed Aug. 15, 1953, to Weekly Publications, Inc., New York, N. Y., a corporation of New York. Weekly Magazine. Class 38.

305,390. SPRINKLER WATCHMAN. Registered Aug. 15, 1933. The Gamewell Company, Newton, Mass., a corporation of Massachusetts. Renewed Aug. 15, 1953. Electrical Fire Alarm Equipment and Attachments for Causing Response Thereof to Water Flow in Sprinkler Systems. Class 21.

305,467. "THE WORLD ALMANAC" ETC. AND DESIGN. Registered Aug. 15, 1933. New York World-Telegram Corporation, New York, N. Y., a corporation of New York. Renewed Aug. 15, 1953. Periodical. Class 38.

305,551. "LA FODHAM'S" AND DESIGN. Registered Aug. 22, 1933. Allan F. Foderingham, doing business as La Fodham's Products Co., Brooklyn, N. Y. Renewed Aug. 22, 1953. Preparations for the Treatment of the Hair. Class 51.

305,798. "THE OLD BLACK SWAN" AND DESIGN. Registered Aug. 22, 1933. J. & W. Nicholson & Co. Limited, London, England, a company incorporated under the laws of Great Britain. Renewed Aug. 22, 1953. Whiskey and Other Potable Distilled Liquors. Class 49.

305,850. ISODINE. Registered Aug. 29, 1933. Iodine Educational Bureau, Inc. Renewed Aug. 29, 1953, to Chilean Nitrate Sales Corporation, New York, N. Y., a corporation of New York. Isotonic Solution of Iodine for Use as a General Antiseptic and Germicide. Class 18.

305,854. HIGH LIFE. Registered Aug. 29, 1933. Miller High Life Company. Renewed Aug. 29, 1953, to Miller Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Beer. Class 48.

305,855. "MILLER" ETC. AND DESIGN. Registered Aug. 29, 1933. Miller High Life Company. Renewed Aug. 29, 1953, to Miller Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Beer. Class 48.

305,871. "HIGH LIFE" AND DESIGN. Registered Aug. 29, 1933. Miller High Life Company. Renewed Aug. 29, 1953, to Miller Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Beer. Class 48.

305,912. DILA-SPRAY. Registered Aug. 29, 1933. Youngs Rubber Corporation, Inc. Renewed Aug. 29, 1953, to Holland-Rantos Company, Inc., New York, N. Y., a corporation of New York. Douche Syringes. Class 44.

306,019. ROSIE'S BEAU. Registered Sept. 5, 1933. King Features Syndicate, Inc. Renewed Sept. 5, 1953, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Cartoons. Class 38.

306,194. "DURAMO" AND DESIGN. Registered Sept. 12, 1933. Goodall Worsted Co. Renewed Sept. 12, 1953, to Goodall-Sanford, Inc., Sanford, Maine, a corporation of Maine. Men's and Boys' Outer Wearing Apparel, Consisting of Coats, Pants, Knickerbockers, and Vests. Class 39.

306,203. "TELL IT TO ELSIE." Registered Sept. 12, 1933. King Features Syndicate, Inc. Renewed Sept. 12, 1953, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Column or Section of a Newspaper. Class 38.

306,214. JELT. Registered Sept. 12, 1933. The H. D. Lee Mercantile Co. Renewed Sept 12, 1953, to The H. D. Lee Company, Incorporated, Kansas City, Mo., a corporation of Kansas. Work Clothing—Namely, Overalls, One Piece Work Suits, and Garage Coats. Class 39.

306,287. R–39. Registered Sept. 12, 1933. National Company, Inc., Malden, Mass., a corporation of Massachusetts. Renewed Sept. 12, 1953. Plug-In Inductances and Forms for the Same. Class 21.

306,291. REPRESENTATION OF BOBBIN AND SHUTTLE WITHIN DESIGN. Registered Sept. 12, 1933. Abbott Worsted Mills, Incorporated, Wilton, N. H., a corporation of New Hampshire. Renewed Sept. 12, 1953. Piece Goods of Worsted, Woolen, Cotton, and Silk. Class 42.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

236,899. "CHAMBERLAIN'S ROYAL LUXURY" ETC. AND DESIGN. Registered Dec. 27, 1927. Frank H. Chamberlain Company, Incorporated, Boston, Mass. Men's, Boys', and Women's Hats and Caps. Class 39. Amended as follows: In the statement, line 9, "and caps" is deleted.

528,814. LAMIDALL. Registered Aug. 8, 1950. Woodall Industries, Inc., Detroit, Mich. Laminated Cellulose Plastic Composition Fiber Board. Class 12. Corrected as follows: In the certificate, lines 2 and 13; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Inc." should be *Incorporated*.

570,537. BEE-JAY AND DESIGN. Registered Feb. 17, 1953. Byron Jackson Co., Vernon, Calif. Pumps—Namely, Centrifugal, Turbine and Rotary or Impeller Pumps, Shaft Bearings, and Parts Thereof. Class 23. Corrected as follows: In the statement, column 1, line 7, after "TURBINE" strike out the comma; same line, after "ROTARY" insert *OR*.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

367,193. "THE SISCO KID" AND DESIGN. Registered May 9, 1939. Sisco-Hamilton Co., Chicago, Ill. Candy. Class 46. New certificate under section 7(c) issued June 30, 1953, to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware.

562,451. "RIZZO'S" AND DESIGN. Registered July 29, 1952. John Rizzo Company, Benton Harbor, Mich. Canned Vegetables, Canned Beans and Pork, Etc. Class 46. New certificate under section 7(c) issued June 30, 1953 to "Rizzo's Fine Foods," a co-partnership composed of Joseph Rizzo and Ruth Rizzo, Benton Harbor, Mich.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 144,614. Registered July 12, 1921. C. A. Nash & Son, Inc., Norfolk, Va., a corporation of Virginia. Republished by registrant.

NASH NORFOLK

The word "Norfolk" is disclaimed apart from the mark as shown.

For Paint-Pigments, Colors in Oil, Dry Colors, Japans, Paint and Varnish Driers, Paint-Oils, Ready-Mixed Paints, Paste Paints, Varnishes, Calcimines, Paint Enamels, Putty, Roofing-Paints, Metallic Paints, a Varnish-Like Preparation for Refinishing Painted and Varnished Surfaces, and Paint and Varnish Removers.

Claims use since 1915.

Reg. No. 180,051. Registered Feb. 19, 1924. Keystone Refractories Company, Jersey City, N. J., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

DURA-STIX

For Furnace Mortar.
Claims use since Apr. 13, 1922.

Reg. No. 180,145. Registered Feb. 26, 1924. Keystone Refractories Company, Jersey City, N. J., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

Crundumsand

For Ganister.
Claims use since April 13, 1922.

CLASS 15

OILS AND GREASES

Reg. No. 401,770. Registered June 8, 1943. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

KWIKSOL

For Fuel Oil Conditioner Acting as a Non-Corrosive Solvent Which Dissolves Carbon and Gum Deposits.
Claims use since July 1942.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 25,141. Registered Aug. 14, 1894. Berry Brothers, Limited, Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich. A corporation of Michigan.

LIQUID GRANITE.

For Varnish for Wood Floors.
Claims use since June 1, 1894.

Reg. No. 104,196. Registered May 11, 1915. Berry Brothers, Detroit, Mich. Republished by Berry Brothers, Inc., Chicago, Ill., a corporation of Illinois.

LIONOIL

For Varnishes.
Claims use since Apr. 1, 1911.

Reg. No. 144,614. Registered July 12, 1921. (Classified in Class 12.) C. A. Nash & Son, Inc., Norfolk, Va., a corporation of Virginia. Republished by registrant. See this number in Class 12 for goods and mark.
Claims use since 1915.

Reg. No. 158,386. Registered Sept. 5, 1922. Berry Brothers, Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan.

LIQUID GRANITE

For Varnishes.
Claims use since June 1, 1894.

Reg. No. 158,612. Registered Sept. 12, 1922. Berry Brothers, Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan.

BERRYSPAR

For Varnishes.
Claims use since October 1921.

Reg. No. 178,295. Registered Jan. 8, 1924. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

VELVESAN

For Flat Wall Finish.
Claims use since Jan. 1, 1922.

Reg. No. 178,302. Registered Jan. 8, 1924. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

CONGRESS

For Ready-Mixed Paints, Paint Enamels, and Stains.
Claims use since Jan. 1, 1922.

Reg. No. 179,148. Registered Feb. 5, 1924. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

GENSPAR

For Varnishes, Stains, and Paint Enamels.
Claims use since Jan. 1, 1922.

Reg. No. 194,111. Registered Jan. 13, 1925. Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan. Republished by registrant.

BERRYLOID

For Varnish.
Claims use since Aug. 1, 1924.

Reg. No. 331,776. Registered Jan. 21, 1936. Berry Brothers, Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan.

RUF KAST

For Paint Enamels and Varnishes.
Claims use since about July 6, 1935.

Reg. No. 340,011. Registered Oct. 27, 1936. Berry Brothers, Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan.

MULTIFORM

For Varnishes, Paint Enamels, and Lacquers.
Claims use since about June 1, 1936.

Reg. No. 350,701. Registered Oct. 5, 1937. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

MARVELUSTRE

For Ready-Mixed and Paste Paints, Paint Enamels, High Gloss Paints, Stains, and Varnishes.
Claims use since Jan. 1, 1922.

Reg. No. 360,073. Registered Sept. 6, 1938. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

SKANDIA

For Ready-Mixed Paints, Paste Paints, Flat Paints, and Paint Enamels.
Claims use since Jan. 1, 1928.

Reg. No. 366,435. Registered Apr. 11, 1939. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

ROCK

For Varnishes, Stains, Japans, Surfacers, and Paints and Paint Enamels.
Claims use since Mar. 15, 1889.

Reg. No. 366,441. Registered Apr. 11, 1939. General Paint and Varnish Company Inc., Chicago, Ill. A corporation of Illinois. Republished by registrant.



All the wording on the drawing but "wheeler" and the monogram, is disclaimed apart from the mark as shown.

For Varnishes, Stains, Japans, Surfacers, and Paints and Paint Enamels.

Claims use since June 1, 1906.

Reg. No. 396,589. Registered July 28, 1942. American-Marietta Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Marietta
FINE FINISHES

The words "Fine Finishes" are disclaimed apart from the mark as shown.
For Paints Sold in Paste and Ready-Mixed Form, Varnishes, Lacquers, Paint Enamels, Stains, and Wood Fillers.
Claims use since Aug. 1, 1941.

Reg. No. 416,995. Registered Oct. 9, 1945. Sewall Paint & Varnish Company, Kansas City, Mo. Republished by American-Marietta Company, Chicago, Ill., a corporation of Illinois.

ReV

For Paints in Paste or Semi-Paste Form.
Claims use since October 1944.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 201,623. Registered Aug. 4, 1925. (Classified in Class 51.) Stanley M. Baltzly, doing business as the Baltzly Company, Massillon, Ohio. Republished by Maxine B. Baumbart, Vermilion, Ohio.
See this number in Class 51 for goods and mark.
Claims use since Nov. 25, 1924.

Reg. No. 252,449. Registered Feb. 5, 1929. (Classified in Class 51.) Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.
See this number in Class 51 for goods and mark.
Claims use since Aug. 1, 1919.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 298,697. Registered Nov. 1, 1932. Donald F. Duncan, Chicago, Ill., assignor to Donald F. Duncan, Inc. Republished by Donald F. Duncan, Inc., Chicago, Ill., a corporation of Delaware.

GENUINE DUNCAN YO-YO

The word "Genuine" is disclaimed apart from the mark as shown.
For Bandelore Toy Spinning Tops.
Claims use since Jan. 1, 1929.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 113,738. Registered Oct. 31, 1916. Huther Brothers Saw Manufacturing Company, Rochester, N. Y., a corporation of New York. Republished by registrant.

HUTHER

For Saws.
Claims use since May 15, 1916.

Reg. No. 402,708. Registered Aug. 10, 1943. Mixing Equipment Co., Inc., Rochester, N. Y., a corporation of New York. Republished by registrant.

MIXCO

For Fluid Agitating and Mixing Devices for Containers for Processing Petroleum and Rubber.
Claims use since Nov. 30, 1942.

Reg. No. 407,155. Registered May 23, 1944. Mixing Equipment Co., Inc., Rochester, N. Y., a corporation of New York. Republished by registrant.

LIGHTNIN

For Mixing Equipment, Including Impellers Operated by Steam and Air Pressure Motors, and Arranged for Attachment to Tanks and Containers for Agitating, Mixing, and Blending Fluid Materials Contained Therein.
Claims use since September 1939.

CLASS 37

PAPER AND STATIONERY

Reg. No. 402,953. Registered Aug. 24, 1943. Arthur G. Verdoiyack, Minneapolis, Minn. Republished by registrant.

SOLAREUM

For Paper Sheeting.
Claims use since Sept. 15, 1928.

CLASS 39

CLOTHING

Reg. No. 154,520. Registered Apr. 18, 1922. W. B. Coon Company, Rochester, N. Y., a corporation of New York. Republished by registrant.

AUNT POLLY'S

For Leather, Rubber and Leather, Fabric and Leather, Boots, Shoes, and Slippers.
Claims use since 1912.

Reg. No. 192,585. Registered Dec. 9, 1924. W. B. Coon Company, Rochester, N. Y., a corporation of New York. Republished by registrant.

STYLISH STOUT

For Boots, Shoes, and Slippers of Leather and Fabric.
Claims use since 1918.

Reg. No. 226,324. Registered Apr. 5, 1927. N. Fluegelman & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

RAYOLA

For Clothing—Namely, Women's, Misses', and Children's Bloomers, Drawers of Knitted or Textile Fabric, Slips, Step-Ins, Vests, Chemise, Lounge and Bath Robes, Dresses, Pyjamas, Nightgowns, and Negligees.
Claims use since Feb. 13, 1926.

Reg. No. 334,102. Registered Apr. 21, 1936. W. B. Coon Company, Rochester, N. Y., a corporation of New York. Republished by registrant.

FREE TREAD

The word "Tread" is disclaimed apart from the mark as shown.
For Shoes Made of a Combination of Leather and Fabric.
Claims use since Apr. 28, 1934.

Reg. No. 391,216. Registered Oct. 28, 1941. Samuel J. Goldfarb, New York, N. Y. Republished by Perfection Frocks, Inc., New York, N. Y., a corporation of New York.

HOUSE-N-GARDEN

The term "House-'N-Garden" is disclaimed apart from the mark as shown.
For Ladies' Dresses and Housecoats.
Claims use since May 1, 1941.

671 O. G.—83

Reg. No. 393,193. Registered Jan. 27, 1942. Samuel J. Goldfarb, New York, N. Y. Republished by Perfection Frocks, Inc., New York, N. Y., a corporation of New York.

WONDERALLS

For Ladies' Slacks, Dresses, and Combined Slack-Dresses.
Claims use since Aug. 2, 1941.

Reg. No. 400,861. Registered Apr. 6, 1943. Samuel J. Goldfarb, New York, N. Y. Republished by Perfection Frocks, Inc., New York, N. Y., a corporation of New York.

DARLING
Dotty Darlin
JUNIORS

The words "Darling" and "Juniors" are disclaimed apart from the mark as shown.
For Ladies' and Misses' Dresses and Aprons.
Claims use since June 15, 1942.

Reg. No. 403,394. Registered Oct. 5, 1943. Samuel J. Goldfarb, New York, N. Y. Republished by Perfection Frocks, Inc., New York, N. Y., a corporation of New York.

BARGAINTERIA
HELP YOURSELF TO BARGAINS"

The words "Help Yourself to Bargains" are disclaimed apart from the mark as shown.
For Ladies' and Misses' Dresses and Aprons.
Claims use since Apr. 15, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 56,714. Registered Oct. 16, 1906. Curtice Brothers Co., Rochester, N. Y., a corporation of New York. Republished by registrant.

CURTICE

For Soups, Vegetables, Fruits, Puddings, and Catchup Packaged in Air-Tight Closures.
Claims use since June 1887.

Reg. No. 88,858. Registered Oct. 29, 1912. Duluth-Superior Milling Company, Duluth, Minn. Republished by Standard Milling Company, Kansas City, Mo., a corporation of Illinois.

GIANT

For Wheat Flour.
Claims use since Dec. 15, 1895.

Reg. No. 117,837. Registered Aug. 7, 1917. Curtice Brothers Co., Rochester, N. Y., a corporation of New York. Republished by registrant.

BLUE LABEL

For Canned Fruits, Vegetables, Canned and Potted Meats, Combinations of Vegetables in Cans and Jars, Combinations of Meats With Vegetables or Fruits in Cans and Jars, Canned Soups, Canned Puddings, Pickled Fruits, Preserves, Catchup, and Condiments.
Claims use since June 1887.

Reg. No. 373,153. Registered Nov. 28, 1939. Nutrena Mills, Inc., Kansas City, Kans. Republished by Nutrena Mills, Inc., Minneapolis, Minn., a corporation of Kansas.



For Animal Feeds—Namely, Poultry and Hog Feeds.
Claims use since Oct. 19, 1938.

Reg. No. 441,232. Registered Nov. 2, 1948. Famous Virginia Foods, Inc., Lynchburg, Va., a corporation of Virginia. Republished by registrant.

HORN OF PLENTY

For Pickles, Jams, Jellies, Mincemeat, Fruit Cake, Plum Pudding, and Canned Fruits and Vegetables.
Claims use since June 1, 1940.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 201,623. Registered Aug. 4, 1925. Stanley M. Baltzly, doing business as The Baltzly Company, Massillon, Ohio. Republished by Maxine B. Baumbart, Vermilion, Ohio.

DANDOK

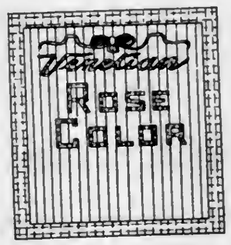
For Preparation for the Treatment of Dandruff, Diseases Common to the Scalp, and for Preserving the Hair.
Claims use since Nov. 25, 1924.

Reg. No. 205,534. Registered Nov. 10, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



The words "Venetian" and "Special Astringent" are disclaimed apart from the mark as shown. The drawing is lined for yellow and pink.
For Astringent.
Claims use since August 1920.

Reg. No. 205,535. Registered Nov. 10, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



The words "Venetian" and "Rose Color" are disclaimed apart from the mark as shown. The drawing is lined for yellow and pink.
For Liquid and Cream Rouge.
Claims use since July 1920.

Reg. No. 249,444. Registered Nov. 13, 1928. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

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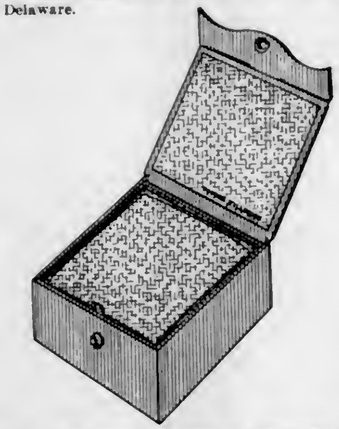
For Perfume, Toilet Water, Skin Creams, Toilet Powder, Skin Lotions, and Bath Salts.
Claims use since May 1, 1928.

Reg. No. 252,449. Registered Feb. 5, 1929. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



For Skin Cream, Skin Tonic, Muscle Oil, Skin Astringent, Skin Lotion, Skin Ointment, Skin Powder, Rouge; Lip Pastes, Sticks, Pencils, and Salves; Compacts Filled With Powder and Rouge, Eye Cream, Eyedrops, Eyebrow Pencil; Eye Shadow—To Wit, a Color Preparation for Darkening the Eyelids; Preparations for the Hair—Namely, Hair Tonic, Pomade, and a Preparation for Treating Dandruff; Shampoo, Henna, Bath Salts, Dentifrices, Hair Eradicator and Depilatory, Eye Bandelettes (Medicinally-Filled Eye Bandages).
Claims use since Aug. 1, 1919.

Reg. No. 283,974. Registered June 9, 1931. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



The word "Poudre" is disclaimed apart from the mark as shown. The representation of the box is disclaimed per se. In drawing, vertical lining indicates rose color and cross hatching indicates yellow.
For Toilet Powder.
Claims use since Aug. 8, 1916.

Reg. No. 289,493. Registered Dec. 1, 1931. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

PRINTEMPS

For Lipsticks.
Claims use since May 5, 1930.

Reg. No. 289,494. Registered Dec. 1, 1931. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

VICTOIRE

For Lipsticks.
Claims use since May 5, 1930.

Reg. No. 289,617. Registered Dec. 1, 1931. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

CHARIOT

For Lipsticks.
Claims use since May 5, 1930.

Reg. No. 290,219. Registered Dec. 22, 1931. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

LYSETTA

For Face Powder.
Claims use since June 6, 1931.

Reg. No. 374,935. Registered Jan. 30, 1940. Grace C. Staber, doing business as Jay's Laboratories, Los Angeles, Calif. Republished by Staber's For Beauty, Los Angeles, Calif.

PROT-N-IZED

For Hair Waving Cream.
Claims use since Oct. 15, 1938.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 178,294. Registered Jan. 8, 1924. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

GEN KUT

For Paint and Varnish Removers.
Claims use since Jan. 1, 1922.

Reg. No. 252,449. Registered Feb. 5, 1929. (Classified in Class 51.) Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.
See this number in Class 51 for goods and mark.
Claims use since Aug. 1, 1919.

REISSUES

JUNE 30, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

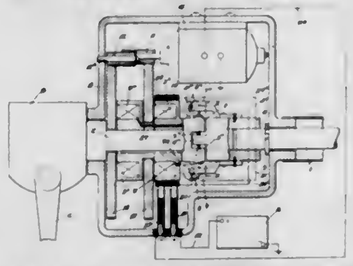
23,673

ELECTRIC POWER APPARATUS FOR STEERING AND THE LIKE

William F. Penrose, Birmingham, Mich.

Original No. 2,587,377, dated February 26, 1952, Serial No. 96,559, June 1, 1949. Application for reissue September 23, 1952, Serial No. 311,173

10 Claims. (Cl. 74—388)



1. An electric power apparatus for steering, and the like, which comprises a manually rotatable shaft, a second shaft to be rotated, a yieldable coupling between the shafts for transmitting torque from the first shaft to the second shaft, the coupling being yieldable to accommodate rotation of the first shaft relative to the second shaft, an electric motor, an electromagnetic clutch operable when energized to effect a driving connection between the motor and the second shaft, circuit means for energizing the motor and the clutch in separate circuits and including an electrical contact on the second shaft, and an electrical contact rotatable with the first shaft and engageable with the other contact, upon yielding of said coupling, and a variable resistor in circuit with said contacts and located in the separate circuit through the clutch, said resistor being operable upon increase of pressure between said contacts to decrease the resistance in the clutch circuit independently of the motor circuit.

23,674

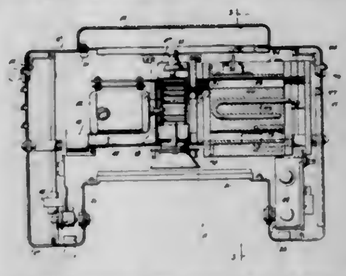
DRYING APPARATUS

Edward D. Spierer, Brooklyn, N. Y., assignor to Edi Holding, Inc., Brooklyn, N. Y., a corporation of New York

Original No. 2,606,274, dated August 5, 1952, Serial No. 230,978, June 11, 1951. Application for reissue March 23, 1953, Serial No. 344,263

6 Claims. (Cl. 219—39)

5. Apparatus adapted for intermittent operation for drying the hands of a user, comprising a support, heat storage means comprising a body of material carried by said support and having a substantial heat storage capacity, passage means past said body of material and in good heat transferring relation therewith, an inlet from the atmosphere to said passage means located at a level at least as low as said passage means, an outlet from said passage means through which air may flow toward an area where the hands of a user may be located to be dried, an air blower located in the air passage forming means made up of said inlet, said passage means past said body of material and said outlet, an electric motor for operating said blower, said inlet and said outlet being so close in a vertical direction to the level of said passage means as substantially to prevent convection heat losses from said body of material when air is not being positively moved therethrough by said motor and said blower; an electric heating element in good heat transferring relation to said body of material and having a heating ca-



pacity substantially less than that which would be required for heating air to a selected drying temperature at the rate at which air is moved by said blower, an electric circuit adapted for substantially continuously supplying energy to said heating element for thereby supplying heat to said heat storage means at a relatively slow rate, and means for intermittently actuating said blower for intermittently drying the hands of a user by air heated by withdrawing heat from said heat storage means at a relatively rapid rate during the intermittent periods of operation only of said blower.

23,675

PILOT-OPERATED VALVE

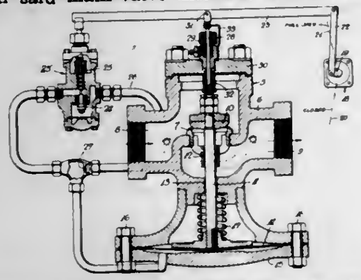
Paulsen Spence, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York

Original No. 2,611,218, dated September 23, 1952, Serial No. 702,813, October 11, 1946. Application for reissue December 9, 1952, Serial No. 325,047

2 Claims. (Cl. 50—11)

1. In a regulating valve, a main valve including a body having a high-pressure side and a low-pressure side, a main-valve member for controlling the flow of pressure fluid from the high-pressure side to the low-pressure side, a fluid-pressure-actuated member for actuating said valve member and having a high-pressure side and a low-pressure side, means including a pilot-valve member for conducting high-pressure fluid from the high-pressure side of said main valve to the high-pressure side of said fluid-pressure actuated member, bleed means for exhausting the

high-pressure side of said fluid-pressure-actuated member, a fulcrum adjustably positionable relatively to said valve body, selective positive positioning means for positioning said fulcrum in a selected desired position, a lever directly connected to said fulcrum, a first connecting member in direct actuating relation with said pilot-valve member and in direct following relation with said lever at a point spaced from the point of connection to said fulcrum, and a second connecting member in direct actuating relation with said lever at a point intermediate said spaced points and in direct following relation with said main-valve member, said pilot-valve



member and said main-valve member being so connected to said lever that for a given adjusted positioning of said fulcrum one direction of lever movement will correspond to an opening movement of said pilot-valve member and to a closing movement of said main-valve member, while the opposite direction of lever movement will correspond to a closing movement of said pilot-valve member and to an opening movement of said main-valve member, so that the magnitude of correcting pilot-valve displacements may exceed the magnitude of corresponding corrected main-valve displacements, whereby relatively sensitive regulation of said valve may be achieved.

23,676

METHOD OF PROCESSING SOLVENT-EXTRACTED LUBRICATING OIL BY TREATING WITH PHOSPHORUS PENTASULFIDE AND A BASE AND THE RESULTING PRODUCTS

John D. Bartleson, Beachwood Village, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Original No. 2,560,546, dated July 17, 1951, Serial No. 30,206, May 29, 1948. Application for reissue June 10, 1952, Serial No. 292,778

10 Claims. (Cl. 252—32.7)

1. A method of processing solvent-extracted lubricating oil stock consisting essentially of hydrocarbon material to yield an oil having improved inhibition to oxidation in service, which method comprises treating said stock with an amount of phosphorus pentasulfide in the range of about 0.1 to about 0.75% by weight at a temperature in the range of about 275° to 450° F., and then with an amount of a base in range of about 0.25 to 6.0 equivalents per mol of the phosphorus pentasulfide.

23,677

METHOD OF PROCESSING LUBRICATING OIL BY TREATING WITH SULFURIC ACID, A PHOSPHORUS SULFIDE AND A BASE AND THE RESULTING PRODUCTS

John D. Bartleson, Beachwood Village, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Original No. 2,560,547, dated July 17, 1951, Serial No. 30,207, May 29, 1948. Application for reissue June 10, 1952, Serial No. 292,779

22 Claims. (Cl. 252—32.7)

1. A method of processing lubricating oil stock consisting essentially of hydrocarbon material to yield an oil having improved inhibition to oxidation in service, which method comprises treating said stock with sulfuric acid in a conventional manner, then treating the resulting acid-refined hydrocarbon with an amount of a phosphorus sulfide in the range of about 0.1 to about 0.75% by weight at a temperature in the range of about 275° to 450° F., then with an amount of a base in the range of about 0.25 to 6.0 equivalents per mol of the sulfide, and including at least one separate clay-treating step subsequent to the acid-refining step.

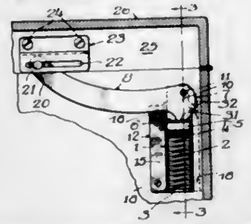
23,678

COVER LIFT HINGE

Alonzo Robert Turner, Cottage Grove, Wis.

Original No. 2,483,947, dated October 4, 1949, Serial No. 780,694, October 18, 1947. Application for reissue July 11, 1950, Serial No. 173,211

4 Claims. (Cl. 217—60)



1. A cover lift hinge for retaining the lid of a cabinet in open or closed position, comprising a housing adapted to be mounted within the cabinet and in a corner thereof below the lid, a vertically disposd coil spring in said housing having its lower end seating on the base of the housing and its upper end free to move vertically, a saddle member seating upon the free end of the spring and movable longitudinally in the housing, a cam arm pivotally mounted adjacent one end in the upper end of the housing and thereat having a cam face seating upon and having rotative contact with said member, said cam face having spaced rises one of which compresses the coil spring and retains the lid in open position and the other compresses the coil spring and retains the lid in closed position, a bracket mounted on the interior of the lid at one end thereof and provided with an elongated slot, and a pin on the other end of the cam arm loosely carried in the slot and connecting the cover lift hinge to the lid.

PATENTS

GRANTED JUNE 30, 1953

GENERAL AND MECHANICAL

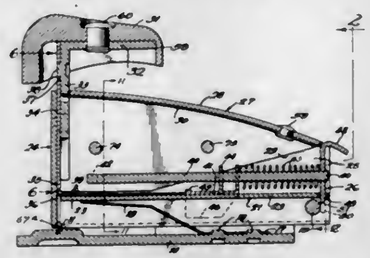
2,643,376

MAGAZINE AND FEED MEANS FOR STAPLING MACHINES

Loren H. Semler, Chicago, Ill.

Application February 28, 1950, Serial No. 146,813

6 Claims. (Cl. 1—3)



1. In a stapler, a magazine comprising a U-shaped member and a guide member, said U-shaped member having its bottom portion struck upwardly to provide an elevated track spaced from the side walls, a pusher on said track, said guide member having a top wall closing the top of said U-shaped member and having an inclined bottom wall extending inwardly and downwardly to direct said staples and said pusher toward said track, and spring means for urging said pusher forwardly.

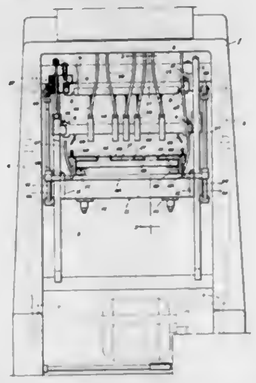
2,643,377

NAILING MECHANISM FOR ASSEMBLED CRATE HEADS

Gerald C. Paxton, Sanger, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California

Application February 12, 1951, Serial No. 210,458

8 Claims. (Cl. 1—8.1)



1. In a machine for nailing assembled crate heads which consist of parallel side rails, parallel end posts and slats extending in spaced relation across the side rails, the combination of: a frame, a nailing unit mounted for vertical reciprocating movement on the frame and which unit includes a gang of spaced nailing devices, a horizontally disposed work support, a horizontally disposed platen supported in the frame below the nailing unit, means yieldably holding the platen with its top surface substantially flush with the top surface of the work support, said work support being disposed to enable an assembled crate head to be fed onto the platen, the nailing unit being operable upon downward movement thereof to press the platen downwardly, stop means to limit such movement of the platen, the nailing unit being then operable to effect nailing of the slats to the side rails, a spike driving unit disposed outwardly from each side of the platen and including a spike driving element mounted for horizontal movement and operatively connected with the vertically movable nailing unit to move in timed relation therewith an effective to move into engagement with the ends of the side rails of the crate head when the platen is in its lowered position and effect spiking of the side rails to the end posts.

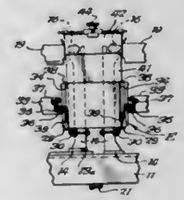
2,643,378

BOX ASSEMBLING MACHINE

Oscar H. Williamson, Riverside, Ill., assignor to International Paper Company, New York, N. Y., a corporation of New York

Application May 11, 1951, Serial No. 225,861

2 Claims. (Cl. 1—11)



1. In a machine for assembling and fastening a box section having one open end and including a relatively long inner sleeve, a relatively short outer sleeve and a cap wherein is provided a pair of spaced vertically disposed clincher posts over which said box section is placed and a stitching head cooperatively associated with each of said posts; the combination of vertically adjustable means carried by said clincher posts to support the lower edges of said inner sleeve whereby to properly position the capped end of said box section in stitching alignment with said stitching heads, and vertically adjustable abutment means carried by said stitching heads and overlying said support means, said abutment means being movable into and out of alignment with opposed lower edges of said outer sleeve to establish proper axial relation thereof with respect to said inner sleeve and being actuated by contact with said inner sleeve.

2,643,379
SCREW STARTER
Steve Matovich, Campbell, Calif.
Application December 18, 1950, Serial No. 201,312
3 Claims. (Cl. 1—47)



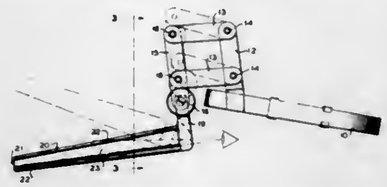
1. In a screw starter having a plunger provided with a magnetic tip and guided for movement axially of a housing together with spring means for normally holding said plunger in retracted position with its tip confined within a forward barrel end of said casing; a screw receiving and guiding discharge mouth for said barrel end of said casing comprising a tapered troughlike tip thereon of U shaped cross section, said tip having a T slot formed therein with the stem of the T coinciding with the open side of the U shaped trough and the crosshead of the T cut into the side walls of said tip to a point diametrically across said barrel end of said casing and transversely of the stem of said T slot to thereby receive the enlarged head of a screw and support the shank thereof axially of said barrel incident to attraction of said screw by the magnetic tip of said plunger, and a beveled surface on the extreme fore edge of said tapered tip adapted to conform to and fit concentrically into a countersunk aperture for axially aligning said barrel and plunger therewith.

2,643,380
SHOULDER STRAP HOLDER
David Blair, Chicago, Ill.
Application September 23, 1949, Serial No. 117,369
1 Claim. (Cl. 2—2)



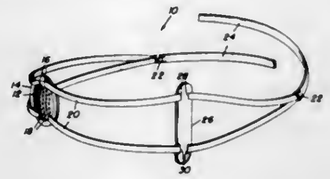
A shoulder strap holder comprising an elongated member formed of a flexible plastic material which is readily deformable, but which has sufficient inherent rigidity to retain its formed shape, said elongated member comprising a bottom wall and inwardly directed overhanging top walls extending the length of the bottom wall, said top walls having longitudinal edges terminating in close proximity to each other to provide a longitudinal opening through which a shoulder strap may be inserted, the longitudinal edges of the top walls terminating downwardly to form longitudinal lips below the plane of the top walls, said base having a smooth upper surface adapted to be engaged by a shoulder strap, said top walls being displaceable for receiving and releasably holding said shoulder strap on the upper surface with the lips frictionally engaging the upper portion of the strap, and a supporting cushioning pad of foam rubber on the underside of said base adapted to engage the shoulder of a wearer so as to minimize slippage thereon.

2,643,381
EYE PROTECTIVE DEVICE
Curzon G. Abbott, Elkhart, Ind.
Application November 22, 1948, Serial No. 61,399
11 Claims. (Cl. 2—14)



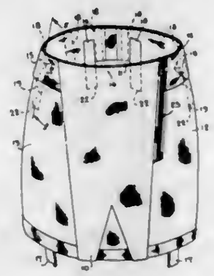
1. In an eye-protective device including a supporting member, a pair of outwardly extending at least partially transparent shields supported at their inner ends by said supporting member, said shields being angularly disposed in parallel relationship to each other, one of said shields subtending the distance between the inner extremities of said shields, means for adjusting said shields vertically, and means for adjusting said shields about a horizontal axis.

2,643,382
EYESHIELD
Lena E. McLeod, Flint, Mich., assignor of one-half to Faythe K. Hardman, Ann Arbor, Mich.
Application March 1, 1951, Serial No. 213,424
1 Claim. (Cl. 2—15)



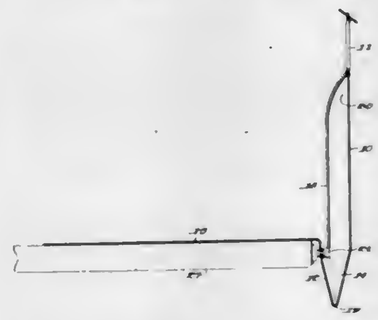
An eye shield comprising a substantially circular disc adapted to cover only one eye, a first pair of tape members connected at vertically spaced points to said disc and extending to one side and rearwardly therefrom in convergent relation, a band connected to the convergent ends of the first pair of tape members, a second pair of tape members connected at vertically spaced points to said disc and including substantially parallel front portions extending to the other side of the disc, a vertically elongated spreader strap provided in upper and lower portions thereof with slots having intermediate portions of the second pair of tape members extending therethrough, vertical spacing of said slots conforming substantially to the vertical spacing of the points of connection of the second pair of tape members to said disc whereby to sustain said front portions of the second pair of tape members in spaced vertical relation to expose the other eye therebetween, said second pair of tape members including convergent portions extending rearwardly from said spreader strap, and a second band connected to the convergent ends of the second pair of tape members and adapted for tying with the first band.

2,643,383
LADY'S GIRDLE
Evelyn Brzozowski, Stepney, Conn.
Application March 29, 1951, Serial No. 218,204
1 Claim. (Cl. 2—26)



A girdle comprising a continuous body having a top belt at least partially elastic, vertical elastic panels below said belt, interposed non-elastic panels between said elastic panels, said belt and panels being secured together, a stiffener in said elastic panels on each side of the girdle, said stiffener being positioned several inches below the top of the panel and finger holds in the form of loops anchored in the stiffeners so as to draw on the elastic panels well below the tops thereof, said loops terminating below the top of the garment so as to be out of sight.

2,643,384
BIB APRON AND FASTENERS THEREFOR
Henry M. Thompson, Hampton, Va.
Application February 24, 1950, Serial No. 145,930
1 Claim. (Cl. 2—49)



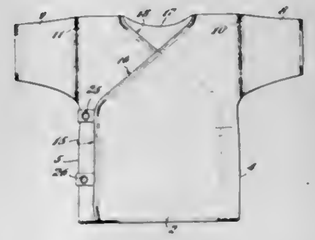
In a bib comprising an apron having adjustable fastening means at the upper end, the lower end of said bib extended upwardly and secured at the edges to provide a pocket, fastening elements fixedly mounted in the upper edge of the outer wall of the pocket, suction cups with fastening elements in the inner ends thereof connected to the fastening elements in the upper edge of said wall of the pocket, and a panel extended outwardly from the upper edge of said wall of the pocket mounted on the said fastening elements in the upper edge of said wall of the pocket.

2,643,385
GARMENT
Ernst Engel, New York, N. Y.
Application April 8, 1953, Serial No. 347,478
1 Claim. (Cl. 2—108)



A garment having a body of tightly woven substantially water resistant fabric and an elastic insert at each side of said garment at the underarm portions thereof and continuing completely around and over the shoulders of the garment, said insert being of tightly woven fabric material and having normally contracted elastic threads therein, said insert and fabric material being shirred by said elastic threads in their normally contracted state so that said insert is stretchable from its normal shirred condition to a substantially unshirred condition, each insert being substantially J-shaped with the short arm of the J at the front of the body, the bottom edge of said short arm being diagonal and being disposed and extending upwardly from the sides of the body towards the center thereof.

2,643,386
DOUBLE-BREASTED UNDERGARMENT FOR INFANTS' WEAR
Justin L. Wyner and Ruth R. Scharf, Brookline, Mass., assignors to The Vanta Company Inc., Newton, Mass., a corporation of Rhode Island
Application December 28, 1951, Serial No. 263,869
4 Claims. (Cl. 2—111)



1. An infant's garment of the wrap-around type of knitted material having a back portion, right and left front flaps each having a substantially vertical, free edge which merges at its upper end with a diagonal edge, the garment having

right and left arm scyes and having sleeves secured in the respective arm scyes by seams which extend down into the garment material below each respective arm scye, the front flap at one side of the garment having one of the complemental elements of a snap fastener located adjacent to the junction of the vertical and diagonal portions of its free edge, the other of said complemental elements of the snap fastener being secured to the opposite side of the garment at the interior of the latter and just below the arm scye, the first-named of the complemental snap fastener elements being mounted on a piece of close woven textile fabric which is united by stitches to the knitted material of the garment, the second-named of said complementary fastener elements being mounted on a length of woven tape, and stitches which pass through the knitted material of the garment at the location of said downward extension of the sleeve-attaching seam for uniting said tape to the garment.

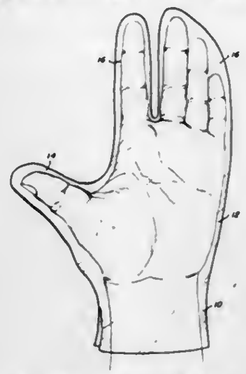
2,643,387
COLLAR STIFFENER
James Andrew Armstrong, Randwick, New South Wales, Australia
Application January 20, 1951, Serial No. 206,981
In Australia August 8, 1950
1 Claim. (Cl. 2—132)



A collar stiffener comprising in combination, a flat substantially rectilinear stem portion consisting of a pliable metal wire having a substantially rectangular cross section, the thickness of said flat substantially rectilinear stem portion being substantially smaller than the width thereof; a pointed substantially rectilinear end portion forming one end of said flat stem portion, said pointed end portion having a substantially circular cross section and a diameter being substantially larger than the thickness of said flat substantially rectilinear stem portion so that the tubular space formed in the collar by said pointed end portion is sufficient to accommodate said flat substantially rectilinear stem portion without appreciable abutment and catching of the front edges of the flat stem portion by the collar fabric; and a head portion forming the other end of said flat stem portion and having a substantially rectangular cross section, said head portion having a substantially rectilinear part including an angle of not less than 90° with said portion and being adapted to lie in the fold of the collar to be stiffened.

2,643,388
HOSE MITTEN
Hazel Scott Curtis, Oakland, Calif., assignor of thirty-three one-hundredths part to Ervin G. Johnson, Oakland, Calif.
Application November 14, 1949, Serial No. 126,947
2 Claims. (Cl. 2—158)

1. A hose protecting hand covering, comprising a mitt of sheer, elastic material having a portion for covering the palm and back of the hand and, extending therefrom, a pocket for the thumb, a



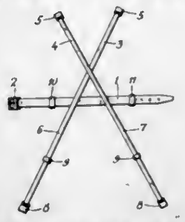
pocket for at least the first finger, and a pocket for at least the third and fourth fingers.

2,643,389
ABSORBENT WRISTBAND
Theodor Oscar Wegner, London, England
Application August 21, 1950, Serial No. 180,644
In Great Britain July 6, 1949
2 Claims. (Cl. 2—170)



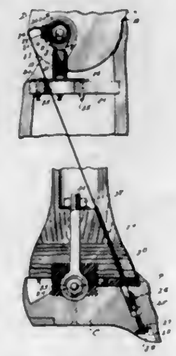
1. A tubular wrist band for wiping perspiration from the face, formed from a band of material having warp threads of rubber interwoven with weft threads of loosely twisted readily absorbent cotton yarn, the outer face of the wrist band having a loose pile surface formed by portions of the cotton yarn.

2,643,390
FASTENING DEVICE FOR BLANKETS
Ruth Ramsland, Stavanger, Norway
Application September 24, 1951, Serial No. 248,000
In Norway July 11, 1949
3 Claims. (Cl. 2—310)



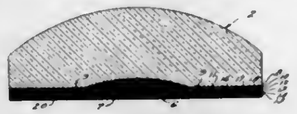
1. A fastening device for a child's blanket comprising a belt with a buckle adapted to surround the body of the child and to centrally secure a blanket wrapped about the child, a pair of elongated bands extending above and below said belt and secured thereto at spaced points adjacent and on each side of the center thereof and crossing each other above the belt, the portions above said crossing being adapted to pass over the shoulders of the child and the portions below the belt being of a length to extend to the wearer's feet fasteners at the upper and lower free ends of said bands for engaging the contiguous ends of a blanket respectively at the front and back of the child.

2,643,391
COMBINATION KNEE AND ANKLE JOINT
Roderick W. McKendrick, Salt Lake City, Utah
Application April 8, 1948, Serial No. 19,823
13 Claims. (Cl. 3—2)



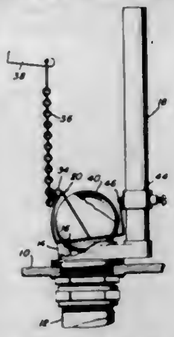
1. An artificial leg comprising a universally rotatable ball and socket joint in the ankle and a universally rotatable ball and socket joint in the knee, and resilient means associated with the respective ball and socket joints for returning the adjoining limbs to normal position following displacement thereof.

2,643,392
ARTIFICIAL EYE
Rudolph E. Busch, Detroit, Mich., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 29, 1945, Serial No. 585,434
15 Claims. (Cl. 3—13)



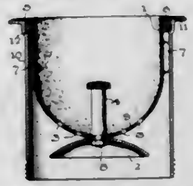
12. An insert iris and pupil element for an artificial eye comprising a transparent button having a plurality of thin layers of transparent substantially colorless material on the back surface thereof, colored material between the layers, the colored material between each pair of layers being arranged in a plurality of areas each of which are spaced from the other areas in said layer and are at least partially offset with respect to the area of colored material between other pairs of layers to give an appearance of distribution of color in depth within a transparent body, a continuous layer of colored material located behind said plurality of layers and providing a background color for the iris and a separate pupillary member cooperatively associated therewith.

2,643,393
TOILET TANK FLUSH VALVE
Kenneth K. Karr, Tulsa, Okla.
Application July 5, 1951, Serial No. 235,217
2 Claims. (Cl. 4—57)



1. Toilet tank flush valve unit, comprising a mounting bracket adapted to be secured to an overflow pipe and including a horizontal bearing, a wire cage comprising a substantially annular base member, an inverted U-shaped hanger extending upwardly from one side of said base member and having a bight portion rotatably journalled in said bearing, and a set of arcuate top members extending upwardly from perimetrically spaced points on said base member and having their upper ends connected together, and a valve ball movably disposed in said cage, said base member affording a seat for said ball.

2,643,394
COMBINATION BASKET STRAINER AND STOPPER
Kermit P. Wood, Berkeley, Calif.
Application July 21, 1952, Serial No. 299,937
10 Claims. (Cl. 4—287)

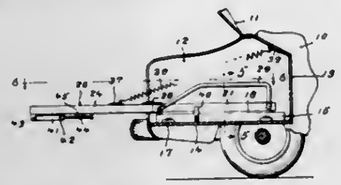


1. A combination strainer and stopper for use in a sink comprising a cup-like body member adapted to fit down into a sink drain and having a lower flexible invertible body portion with strainer holes therein, valve means positioned below said lower body portion and spaced from the strainer holes, and operating means positioned to invert the lower body portion to engage the valve means therewith to close said strainer holes.

2,643,395
EMERGENCY STRETCHER
Odysseus Stassinos, Charlotte, N. C.
Application September 25, 1950, Serial No. 186,660
3 Claims. (Cl. 5—119)

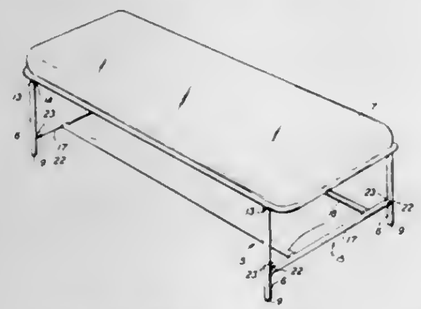
1. In combination, an automobile including a body, having a trunk compartment comprising a floor, a trunk lid hingedly connected to said body, a pair of spaced parallel horizontally dis-

posed female dovetailed tracks secured to said floor, a male dovetailed track slidably connected to each of said female dovetailed tracks, a rectangular stretcher including a pair of frame members secured to said male dovetailed tracks, cross members extending between said frame members and secured thereto, vertically disposed hand



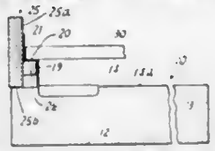
rails secured to said frame members for moving said stretcher, a canvas bottom extending between said cross members and frame members and secured thereto, and a bar secured to one of said female dovetailed tracks for engaging said hand rail to limit sliding movement of said stretcher out of said trunk compartment.

2,643,396
BEDSTEAD
Stanley J. Post, Banning, Calif.
Application June 10, 1950, Serial No. 167,341
2 Claims. (Cl. 5—285)



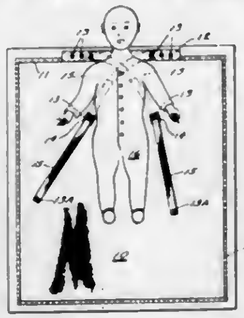
1. A treating table comprising an endless rectangular tube providing a frame section, a rigid base mattress supported on said frame section, said frame section having an opening therewithin, a plurality of studs secured rigidly to the underside of said mattress supporting frame section and projecting downwardly therefrom, a shoulder provided on each stud and spaced from its end, a plurality of legs, each leg being telescopically and releasably engaged on one of said studs and abutted against its shoulder to support said frame section in an elevated position, a stud secured rigidly to and projecting laterally from each leg, a shoulder provided on each leg stud and spaced from its end, a bracing section comprising tubular members rigidly secured together and telescopically and releasably engaged on said leg studs and abutted against said leg stud shoulders to maintain the positions of said leg, means cooperating with all said studs and the parts engaged thereover and providing securement of said parts to said studs, said bracing section being of a length and width less than the corresponding dimensions, respectively, of said opening within said frame section for accommodation of said bracing section within said opening upon disengagement of said bracing section from said leg studs.

2,643,397
BED SUPPORTED HOLDER FOR SLIPPERS AND THE LIKE ARTICLES
Stella Ehrenreich and Simon Stettner, New York, N. Y.
Application May 24, 1949, Serial No. 95,036
12 Claims. (Cl. 5—317)



12. A holder of the character described comprising a tray, said tray being open at its front end, the front end of the tray providing means to engage the underside of a side rail of a bed, means on the tray to engage the inner surface of the narrow bedboard strip on the inner side of said side rail spaced above the lower edge thereof, and means to engage the top of said bedboard strip.

2,643,398
BABY BLANKET AND HARNESS
Helen D. Routman, Sharon, Pa.
Application October 23, 1951, Serial No. 252,597
2 Claims. (Cl. 5—334)

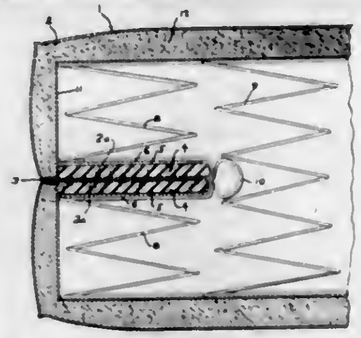


1. A baby blanket comprising a section of blanket material of sufficient size to more than cover all but the head of a baby and providing an area for directly covering the body of the baby, a pair of spaced snap fastening means at one edge portion of the blanket section and within said area, the spacing between said fastening means being such as to receive the neck of the baby therebetween, additional spaced snap fastening means directly carried by said blanket section inwardly of said one edge portion and arranged on opposite sides of said area so as to be on either side of the body below the arms of the baby, and belts having cooperating fastening means in direct attachment to said first named and additional fastening means of the blanket section in order that said belts can be crisscrossed against the body thereby holding the blanket section against the baby regardless of the movements of the baby.

2,643,399
FABRIC RETAINING DEVICE
William W. Haefliger, Los Angeles, Calif.
Application May 19, 1951, Serial No. 227,259
8 Claims. (Cl. 5—351)

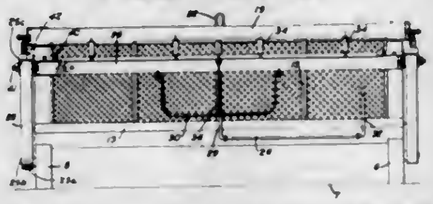
4. In a mattress of the character described: upper and lower mattress side portions; inwardly disposed upper and lower fabric layers forming an inward continuation of said mattress side portions, said fabric portions having contiguous

surface portions; resilient means disposed above and below said upper and lower fabric portions; and compression means positioned within said



mattress for exerting compressive force on said resilient means, whereby said upper and lower fabric portions are held in compressive relation.

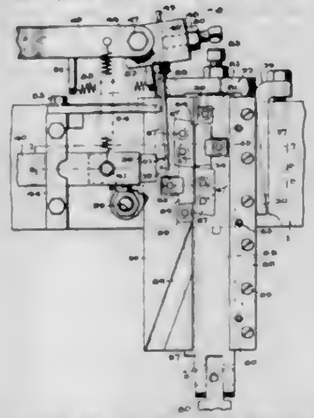
2,643,400
PRESS FOR SECURING WAX COMB FOUNDATIONS IN HONEY FRAMES
Irven D. Johnston, Du Bois, Pa.
Application October 2, 1950, Serial No. 187,959
1 Claim. (Cl. 6—12)



In a wax foundation press for honey frames, a stationary press frame adapted for holding a group of sectional separable honey frames in upright position, and means for separating one section of each of the honey frames from its companion section and comprising an inverted U-shaped frame including a pair of legs pivoted at their lower ends to the press frame and swingable vertically toward and away from the honey frames and said U-shaped frame further including a rockable bar connecting the upper ends of the legs to each other and extending transversely in front of the honey frames, a plurality of hooks rigidly connected to the rockable bar and having free end portions swingable by the bar into and out of engagement with the adjacent sections of the honey frames, catch means connected to the bar and holding the bar in a predetermined rocked position with the hooks raised out of engaged position with the honey frame and treadle actuating means for the U-shaped frame.

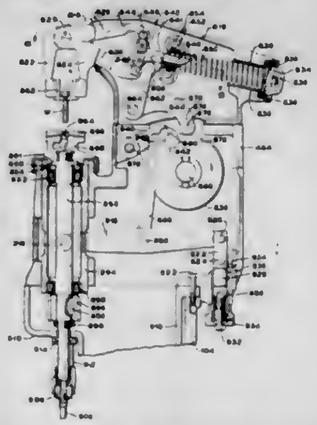
2,643,401
APPARATUS FOR MAKING SCREW FASTENERS
Louis J. Lovisek, New York, N. Y., assignor to Parker-Kalon Corporation, New York, N. Y., a corporation of New York
Application November 3, 1950, Serial No. 193,965
10 Claims. (Cl. 10—2)

1. Apparatus for making screw fasteners, comprising means for feeding a continuous length of wire stock to a cut-off station, means at said cut-off station for successively cutting off predetermined lengths of the wire stock to form screw blanks, means for transferring the cut off screw blanks from the cut-off station to a second station, a plurality of relatively shiftable die segments at said second station, said die segments defining a screw blank-receiving cavity, means at said second station for driving the screw blank into said cavity for forming a head on the screw



blank, at least two of said die segments having opposed longitudinally extended screw blank-engaging faces provided with thread-rolling ribs and grooves, and means operative in timed relation to the screw blank driving means aforesaid for relatively shifting said last-mentioned die segments to form threads on the screw blank after the screw blank has been headed.

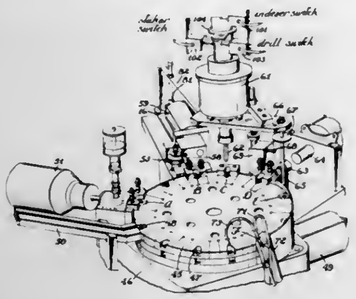
2,643,402
MACHINE FOR FORMING AND THREADING BOLTS, SCREWS, AND THE LIKE
Arthur H. Billow, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application January 10, 1946, Serial No. 640,344
9 Claims. (Cl. 10—4)



2. In work forming mechanism for a threading machine having a pair of thread rolling dies and means for reciprocating one of said dies relative to the other; a gravity feed chute for the work blanks above said dies and obliquely inclined with respect to the path of movement of said reciprocating die, a rotatable work forming head mounted for axial movement in a direction substantially perpendicular to the inclined feed chute, means spaced from the plane of said chute

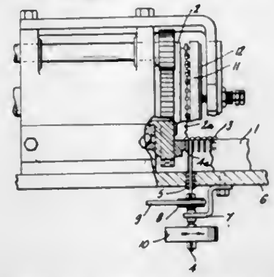
for releasably holding a work blank in coaxial relation with the work forming head, means for axially moving said work forming head toward and away from said work blank, means for successively shifting in a direction parallel to the movement of said forming head and laterally transferring single work blanks from said feed chute to said holding means, means to adjust the shifting movement of the transfer means to dispose the lower end of said blanks in predetermined spaced relation with said work forming head, a second inclined chute spaced from and in substantial parallelism with said feed chute, a second transfer means for shifting in a direction parallel to the movement of said forming head and laterally transferring the formed work blanks from said holder and depositing the same in the upper end of said second chute, means for conveying the work blank from the lower end of the second chute to the thread rolling dies, and cam controlled means individual to the forming head, the two transfer means, the work holder and the conveying means for effectively operating the same in timed relation to each other.

2,643,403
MACHINE FOR MAKING FRICTION GRIP NUTS
James MacBlane and Robert N. Paterson, Horseheads, N. Y., assignors, by mesne assignments, to The Nylok Corporation, New York, N. Y., a corporation of Delaware
Application October 14, 1949, Serial No. 121,282
20 Claims. (Cl. 10—72)



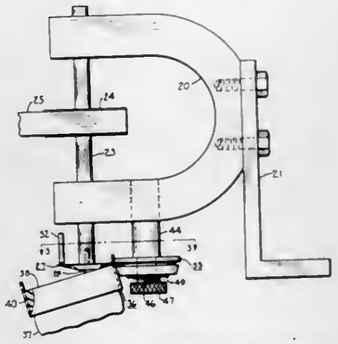
20. In a machine for making friction grip threaded members, the combination of a movable work support having receptacles thereon to receive a plurality of work pieces, feeding means adjacent to said work support to supply work pieces to said receptacles, drilling means adjacent to said work support and spaced from said feeding means to drill a hole in the side of each work piece in a receptacle, a movable shearing member having an opening to receive the end of an elongated rod of friction material, said member being adjacent to said work support and spaced from said drilling means and movable to shear off the end of said rod to form a slug of predetermined length, plunger means to force the slug out of the opening into a hole in a work piece, threading means adjacent to said work support for threading said work pieces, and means for moving said work support and actuating said drilling means, said movable shearing member, said plunger means and said threading means in timed relation to each other.

2,643,404
SCREW OR LIKE FEEDING MEANS
Victor Hill Fray, Auckland, New Zealand
Application April 20, 1950, Serial No. 157,078
In New Zealand August 16, 1949
6 Claims. (Cl. 10—165)



1. In a device for feeding headed articles, the combination of two horizontally spaced inclined surfaces upon which said articles are adapted to slide while suspended therefrom by their heads, a roller adjacent to the lower end of one of said surfaces, means for supporting said roller for rotation about an axis normal to the plane of said adjacent surface, said roller having an annular surface normal to its axis of rotation forming a continuation of said adjacent surface, and means for rotating said roller in a direction to continue the movement of said articles in the direction in which they move along said surface.

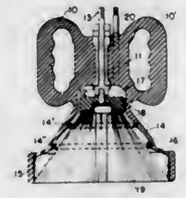
2,643,405
SHOEMAKING MACHINE
Donald P. Weber, Columbus, Ohio, assignor to The H. C. Godman Company, Columbus, Ohio, a corporation of Ohio
Application August 24, 1949, Serial No. 112,055
3 Claims. (Cl. 12—1)



3. A shoe machine for trimming the sole edge cover of a shoe at the bottom surface of the sole comprising, a circularly shaped rotatable knife having opposite surfaces disposed at an angle to one another to form a knife edge, the bottom surface being conical throughout the length thereof and forming a guide for the sole of the shoe; a freely rotatable roller having an undercut portion for receiving the edge of the knife, one surface of the undercut of the roller cooperating with one surface of the knife to form a shear, said roller having a peripheral surface disposed at

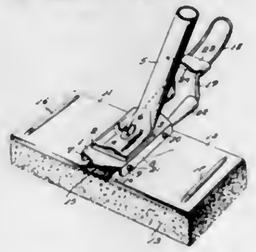
substantially a right angle to the bottom side surface of the knife and forming a guide for the edge of the sole; a shaft extending upwardly from the knife and attached to the latter for driving the rotatable knife; tension drag means for the roller; and means for adjusting the tension of the drag means.

2,643,406
PORTABLE ROTARY FOUNTAIN BRUSH
William G. Cunningham, Atlanta, Ga.
Application November 8, 1949, Serial No. 126,173
3 Claims. (Cl. 15—29)



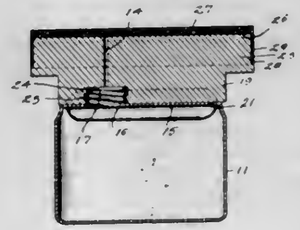
2. A rotary pressure brush, comprising a substantially cylindrical central connecting section, a handle formed on said section, a composite shield carried by said connecting section and including an open flaring skirt member of hard material, depending from the lower end of said connecting section, an annular flaring web portion formed of an uninterrupted flexible membrane integral with and bounding the outer edge of said skirt, a substantially cylindrical outer ring of medium hard material, integral with and bounding the outer edge of said web and depending vertically therefrom, a concentric annular chamber formed adjacent the junction of said skirt and connecting section, a central cylindrical bore formed in said connecting section and opening into said chamber, a power shaft mounted for rotation in said bore and having one end projecting into said chamber, a brush head mounted on the projecting end of said shaft, a plurality of elongated flexible bristles arranged in said head beneath said skirt and extending in flaring relation, the length of said bristles being in excess of the diameter of said head whereby they extend substantially to said outer ring, and a fluid inlet to said chamber.

2,643,407
MOP AND EXTRACTOR THEREFOR
Peter S. Vosbikian and Thomas S. Vosbikian, Melrose, Pa.
Application July 7, 1950, Serial No. 172,602
11 Claims. (Cl. 15—119)



11. In a mop, a body portion, head sections carried by the body portion and having their inner juxtaposed portions hinged together in spaced relationship, sponge material on the bottoms of the head sections, a handle fixed to the body portion, and an extractor having spaced stretches pivotally connected at their forward ends to the body portion, the pivotal axis of the extractor extending transversely to the hinge axis of each head section and so related thereto as to cause the stretches, on pivotal movement of the extractor in one direction, to pass transversely over the head sections to press them towards each other.

2,643,408
RESILIENT RESERVOIR WITH APPLICATOR CLOSURE
Howard William Decker, Batesville, Ind.
Application January 5, 1950, Serial No. 137,018
1 Claim. (Cl. 15—136)

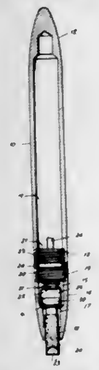


In an applicator having a reservoir having flexible compressible sides and depressed side areas for application of hand pressure, a threaded pouring neck for said reservoir, a base threadedly attached to said neck having a plane surfaced portion spaced from the reservoir, the spacing means comprising a reduced portion of said base coinciding in area with the area of the top of said reservoir and having depressed side areas coinciding with said first-mentioned depressed side area, said first and second mentioned depressed side areas forming a finger grip when said reservoir is in the palm of the hand, a sealing gasket between said neck and said base, a sponge rubber pad attached to the plane surface, a tubular conduit extending from the reservoir through the base to the sponge for transmission of liquid.

2,643,409
FOUNTAIN MARKER
Herbert W. Hempel and Walton C. Marsh, Belleville, Ill., assignors to Marsh Stencil Machine Company, Belleville, Ill., a corporation of Illinois
Application June 11, 1947, Serial No. 753,878
7 Claims. (Cl. 15—139)

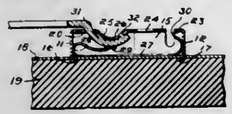
1. A fountain marker comprising, in combination, a fluid containing supply reservoir, a chamber for receiving fluid therefor from said reservoir, valve means for controlling flow of fluid from said reservoir to said chamber, a tubular extension from said chamber, the internal cross-sectional dimension of the the extension being smaller than that of the chamber, and a fluid conducting marking tip connected to said valve means and extending from within said chamber slidably through and beyond said extension, said tip being in substantially fluid sealing engage-

ment with the inside wall of said extension whereby fluid in the chamber is in contact only



with the upper portion of said tip, said valve means being actuatable by pressure on said tip.

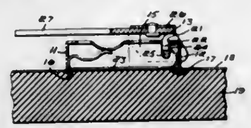
2,643,410
WIPER BLADE CLIP
Israel Nesson, Lynn, Mass., assignor to Max Zaiger, Swampscott, Mass.
Application January 25, 1949, Serial No. 72,569
5 Claims. (Cl. 15—250)



1. A clip for removably connecting a windshield wiper arm to a wiper blade, comprising a box-like connector having a top, sides and ends, means on the connector for attaching it to the blade, said top having a depressed portion of arcuate form and said portion having an aperture therethrough, said top having an opening intermediate said depressed portion and one end of the connector, whereby the end of a stud-type arm may be inserted through said opening and under said depressed portion until its stud is received in said aperture, and a spring disposed within the connector and having an upwardly extending portion adapted to bear on said arm end yieldingly to retain the stud in said aperture, said spring extending longitudinally of the connector and having a central portion for normally engaging the wiper blade, and having a looped end forming said upwardly extending portion, said upwardly extending portion normally engaging the depressed portion of the top when the wiper arm is separated from the connector.

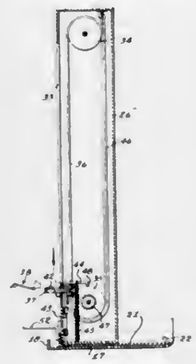
2,643,411
WIPER BLADE CONNECTOR
Israel Nesson, Lynn, Mass., assignor to Max Zaiger, Swampscott, Mass.
Application June 14, 1951, Serial No. 231,529
2 Claims. (Cl. 15—250)

1. A connector attached to a windshield wiper blade for removably connecting thereto a wiper arm having a cross bar adjacent its free end, the connector having a top, sides, and ends, the top having a transverse opening adjacent one end of the connector and side slots communicating with said opening and adapted to receive a cross bar inserted through said opening and into said slots, and a flat, elongate spring disposed within the connector, said spring having a portion bearing



on the wiper blade and a curved latch portion extending toward the top of the connector and operatively associated with said side slots for releasably retaining said cross bar in said slots.

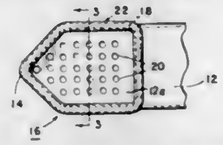
2,643,412
WINDOW CLEANING APPARATUS
Louis Romano, Bronx, N. Y.
Application May 4, 1951, Serial No. 224,565
6 Claims. (Cl. 15—251)



1. A window cleaning apparatus of the character described comprising a base plate adapted to be secured in an outwardly projecting position to the bottom margin of a window frame, a support member on said base plate, means pivotally connecting the outer end portions of said support member and base plate, an upstanding housing secured on said support member, a first pulley journaled in the upper portion of said housing, a second pulley journaled in the lower portion of said housing, a flexible belt engaged around said pulleys, said housing being substantially open at its inner side, a bracket member secured to said belt and extending through the open inner side of said housing, a wiper blade secured on said bracket member, a catch member slidably mounted on the lower portion of said housing and engaging the base plate inwardly of the means pivotally connecting said support member and said base plate, spring means urging said catch member downwardly, a toothed wheel secured to said second pulley and being lockingly engageable by said catch member when the housing is in an outwardly tilted position, an elastic band connecting said bracket member to the upper portion of said housing and extending around said second pulley, said bracket member being movable upwardly to stretch said elastic band, and an inwardly extending projection on the support member engageable by the lower edge

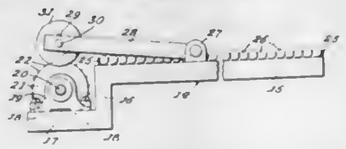
of a window sash when the sash is moved downwardly, whereby the support member will be rotated inwardly and the catch member will be disengaged from said toothed wheel when said sash is moved downwardly, and whereby said bracket member will be moved downwardly by the contraction of said elastic band.

2,643,413
SUCTION CLEANING TOOL
Nicholas Angelo Buccasio, Binghamton, N. Y.
Application November 28, 1949, Serial No. 129,803
6 Claims. (Cl. 15—396)



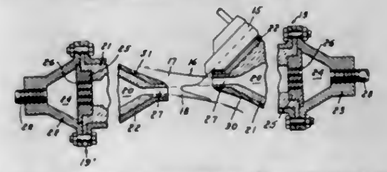
1. A suction cleaning tool adapted to be attached to the suction hose of a vacuum cleaner comprising a tubular body member having a flattened end converging to a point and being formed by substantially parallel walls joined along their side edges, a marginal bead extending from the pointed end along both side edges of one parallel wall of the member and thence across said wall and forming with the outer surface thereof an enclosed space, the tube wall within the enclosure being pierced with a multiplicity of suction openings establishing communication between the tube interior and said space, the bead having a covering of soft material thereon adapted to partially seal the enclosed space to atmosphere upon the head being laid flat on a surface to be cleaned, said covering being preformed to channel section and being detachable from said rim so that it may be replaced when worn.

2,643,414
SAUSAGE PERFORATING MACHINE
Otto Bolton, Denver, Colo.
Application December 12, 1949, Serial No. 132,567
2 Claims. (Cl. 17—1)



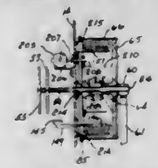
1. In a sausage link perforating machine, a frame, a driven, spurred perforating wheel having its axis of rotation fixed relative to said frame, a peripherally grooved guide wheel rotatably mounted on an arm pivotally attached to said frame, said guide wheel being positioned above and in planar alignment with said perforating wheel and co-acting with the peripheral edge of said perforating wheel, said arm and guide wheel having free upward pivotal movement in the plane of alignment of said wheels wherein said machine may automatically adjust for sausage links of irregular size and shape, and means on said frame for guiding a chain of sausage links between said perforating wheel and the peripheral groove of said guide wheel.

2,643,415
METHOD AND APPARATUS FOR PRODUCING FIBERS
Charles J. Stalego, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application July 19, 1949, Serial No. 105,514
11 Claims. (Cl. 18—2.5)



1. In a process of producing fibers from a material which becomes soft in the presence of heat and is capable of being drawn out to form fibers when in a softened state including the steps of establishing two streams of gas each having a temperature exceeding the softening point of the material, directing the gas streams to form a blast in which gases of the blast move in different directions, feeding material to be formed into fibers into the blast, and attenuating the material to form fibers by the heat and force of the blast.

2,643,416
APPARATUS FOR CASTING RIBBONS OF GELATIN AND THE LIKE
Rex E. Moule, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application March 5, 1949, Serial No. 79,743
2 Claims. (Cl. 18—15)

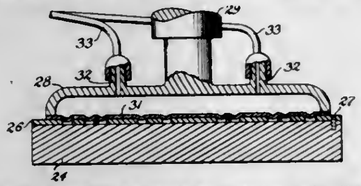


1. In apparatus for casting ribbons of gelatin and the like, the combination with a receptacle to contain the material to be cast, a spreader connected to said receptacle and having an orifice to deliver said material, a casting drum to receive said material and means to rotate said casting drum, of means for cooling said casting drum comprising coils therein, means for circulating coolant through said coils, a rotatable fan inside of said casting drum positioned to drive air through said coils and against the inside of said casting drum, and means to rotate said fan.

2,643,417
METHOD OF FORMING EMBOSSED AND DECORATED PANELS
Kenneth F. Smith, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio
Application July 2, 1949, Serial No. 102,888
3 Claims. (Cl. 18—56)

1. A method of forming an embossed decorated panel which comprises applying paint indicia on one side of a flat sheet of transparent thermoplastic resinous material, placing said sheet with the unpainted surface in contact with a die containing recessed indicia that register with the

paint indicia on the sheet, heating the entire sheet to a softening temperature, and applying a resilient force to the painted side of said



sheet to force the material thereof into the recessed indicia of the die to form an embossed decorated panel.

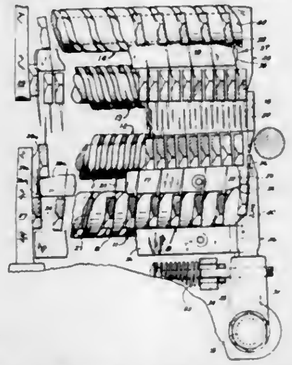
2,643,418
METHOD OF MAKING FISHING LURES
Dexter D. Auldridge, South Charleston, W. Va., assignor of one-half to A. S. Tennant, South Charleston, W. Va.
Application July 3, 1950, Serial No. 171,828
1 Claim. (Cl. 18—59)



The method of making a fishing lure wherein the finished product comprises a common fishhook and a feathered plastic body representation mounted on the median portion of the shank of the hook between the eye and bent hook end; said method comprising a first step wherein a carcass is preliminarily prepared for injection molding by winding and tying thread means around the stated shank and simultaneously uniting the feathers with said shank so that all feathers will be in the same plane, a plane which is substantially parallel with the plane of the bend of the hook on said shank, a second step involving attaching the end portions of the fishhook to spaced permanent magnets in the flat face of a recessed mold section so that the shank spans the recess in said mold section, so that the tied feathers lie in flat contact with the face of the mold section projecting to opposite sides of the recess in the mold section and so that the tying thread is at the exact center of the recess, the third step of bringing a complemental recessed mold section into aligned molding relation with the first mentioned mold section, and injecting thermoplastic material under pressure in a plastic condition into the recesses in the mold sections and allowing it to set and to conform with the shape of the recesses and to encompass the tying thread, and adjacent portions of the feathers, and leaving portions of the feathers projecting beyond the marginal portions of the molded thermoplastic material.

2,643,419
ELIMINATION OF FALLER BAR CREEP IN PIN DRAFTERS
James R. Longstreet, Maple Heights, Ohio, and Raynaldo Jacques, Uxbridge, Mass., assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application July 30, 1948, Serial No. 41,646
2 Claims. (Cl. 19—129)

1. In a gill box, a lower series of faller bars, lead screws of one pitch for advancing the bars with a moving sliver, return screws of a greater pitch for returning said bars in a direction opposite to the direction of sliver motion, said screws being geared together, cams turning with said screws for shifting the bars from the lead screws to the return screw at the exit end of said gill box, and cams turning with said screws for shifting the bars of each series from the return screws to the lead screws at the entrance end of said gill box, guide saddles for said bars disposed between associated lead and return screws, each saddle having a longitudinal surface for guiding said bars during advance thereof with a sliver, and spring pressed arms urged toward



the ends of each saddle, the exit end of each saddle having a planar vertical surface, said arms having straight ends for holding bars against said vertical saddle surfaces, said arms having curved base portions overlying a substantial portion of said return screws, said curved base portions, saddle ends and return screws being relatively disposed so that a faller bar passing into said return screws has two spaced zones of engagement with each arm, and a single zone of engagement with each saddle end, whereby said faller bars are steadied by three point engagement while being canted for easy entry into said return screws.

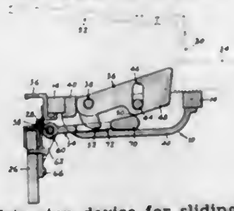
2,643,420
DOOR ASSEMBLY AND HOLDER MECHANISM
Albert Schwartz, Cleveland, Ohio
Application October 14, 1950, Serial No. 190,075
1 Claim. (Cl. 20—16)



In a vertically hanging door assemoly and holder apparatus therefor in which the door swings upwardly about a horizontal pivot at its upper edge, the combination comprising a door frame including a frame head and an abutting door stop strip, a door pivoted to said frame head at one side of the door stop strip, a bracket secured to said frame at the other side of said

stop strip, an extension arm rigidly mounted on said door at the upper portion thereof and projecting inwardly away from said door pivot to a point inwardly of a plane intersecting said door pivot and bracket, two telescopic members movable relative to one another and having opposite ends connected to the extension arm and to said frame bracket respectively, a compression spring between said telescopic members biasing the telescopic members to extended position, and automatic latch means carried by said telescopic members and operable to latch the telescopic members in extended position to hold the door in open position, said compression spring normally biasing the door to open position when the pivot between the extension arm and telescopic members is on one side of the plane intersecting the door and bracket pivot and biasing said door to closed position when said pivot is on the opposite side of said plane.

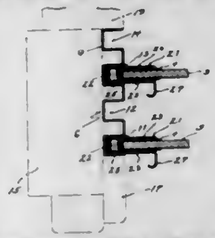
2,643,421
SAFETY DEVICE FOR SLIDING DOORS
Ralph G. Nichols, St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 2, 1949, Serial No. 125,038
11 Claims. (Cl. 20—19)



7. A safety stop device for sliding doors comprising, in combination with a room wall having a hand-hole providing access to an area of the room in the path of opening movement of the door and a hinged door for closing the hand-hole, a sliding door stop member pivotally mounted in the room wall adjacent the hand-hole and formed with a shoulder, and a link pivotally carried at one end by the hinged door and formed at its other end with a cam-like portion longitudinally movable into sliding engagement with said shoulder of the stop member during opening movement of the hinged door for shifting the stop member into operative position preventing opening movement of the sliding door across said hand-hole.

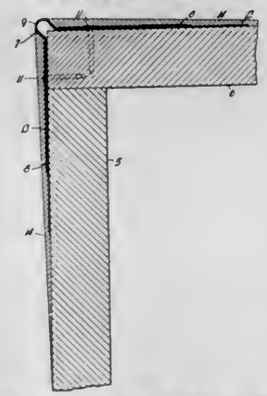
2,643,422
WINDOW CONSTRUCTION
Prosper L. Goltschalk, Milwaukee, Wis.
Application October 4, 1947, Serial No. 777,916
2 Claims. (Cl. 20—52.2)

1. A window construction comprising: a frame having sash guides immovably fixed on opposite sides thereof to define opposite parallel trough-like guideways; a sash of a width less than the distance between the bottom of one guideway and the mouth of the other; a channel embracing each side edge portion of the sash and extending for the full length thereof, said channels being slidably received in the sash guideways; means for restraining the channels against all but sidewise movement relative to the sash, toward and from one another; spring means reacting between the sash and the web of each channel and urging the channels away from the sash to projected sash retaining positions engaged with the bottoms of the guideways, and yieldingly resisting motion of the channels toward one another to retracted positions reducing the overall width of the sash to a dimension less than the distance from the bottom of one



guideway to the mouth of the other and at which the sash may be disengaged from the frame; and means on said channels, accessible outside of said guideways, by which the channels may be manually moved toward one another to said retracted positions thereof at which the sash may be installed in or removed from the frame.

2,643,423
DRY WALL CONSTRUCTION
Raymond J. Brendel, Buffalo, N. Y., assignor of forty per cent to Jerome Cantor, Buffalo, N. Y.
Application December 26, 1950, Serial No. 202,753
1 Claim. (Cl. 20—74)



An exterior corner connection for dry wall constructions comprising a metal corner plate provided with an outwardly extending corner bead and with two angularly arranged flanges for attachment to the surfaces of adjacent wall boards at the corner thereof, the flanges being disposed at substantially the same angle to each other as the angle between the wall boards and being in intimate contact with and conforming to the exterior surfaces of the boards, fastening means passing through the flanges and adjacent wall boards for securing the flanges to the wall boards, a separate strip of flexible tape cemented to and covering substantially the entire exterior surface of each flange, the tape spanning the joint between the outer edge of the flange and the adjacent wall board and extending over the adjoining surface of the wall board, and a cement filler disposed over the exposed surfaces of the flanges and the surfaces of the strips of tape,

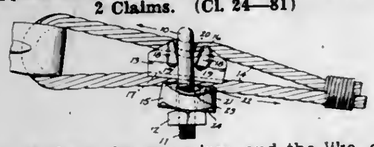
the filler spanning the joint between the outer edge of the tape and the wall board, said cement filling the uneven surface at the joint between the flanges, the boards and the strips of tape and extending to a position some distance beyond the edge of the tape where it meets and joins the surface of the wall board, whereby to present an unbroken surface at the points of junction of the edge of the flange and the edge of the cooperating strip of tape with the wall board.

2,643,424
PACKAGE WRAPPING DEVICE
Robert D. Gothar, Sherman Oaks, Calif.
Application February 6, 1950, Serial No. 142,678
4 Claims. (Cl. 24—17)



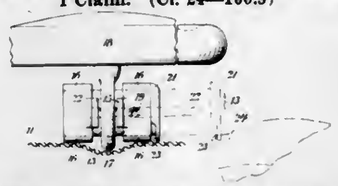
1. A package wrapping fastener comprising: a stiff sheet metal plate formed with transverse slots near its opposite margins and rigid ribbon gripping portions bent outwardly from said plate at outer margins of said slots from one side of and overlying end areas of said plate, and a flexible tie adapted to extend around a package and having its opposite end portions extended over opposite areas of a reverse surface of said plate, thence through slots adjacent said end areas to and over an obverse side of the plate and affixed to said gripping portions, for holding said tie tightly stretched around the package.

2,643,425
CLAMP FOR GUY WIRES AND THE LIKE
Kenneth C. Jenne, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a corporation of Connecticut
Application September 5, 1951, Serial No. 245,209
2 Claims. (Cl. 24—81)



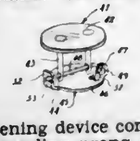
1. A clamp for guy wires, and the like, comprising a U-bolt formed of circular cross-section stock having a bight at its upper end and side legs threaded at their lower ends, a nut screwed upon each of said threaded ends, a clamping body member disposed between the legs of said U-bolt having at its upper side an upper guy strand receiving groove opposed to the bight of said U-bolt, and having at its lower side a lower guy strand receiving groove, a lower clamping plate engaged upon the legs of said U-bolt above said nuts and having at its upper side a guy strand receiving clamping groove opposed to said lower groove of said clamping body member, two transversely aligned pairs of projections, one pair on each side of said body member, each said pair having upwardly diverging longitudinally opposed surfaces defining between them a space within which a leg of said U-bolt is pivotally movable about a transverse axis to swing the bight of the U-bolt from a central position in one direction or the other toward said upper groove, the convergent ends of said surfaces being longitudinally spaced apart a distance slightly greater than the cross-sectional diameter of the leg of said U-bolt engaged therebetween, whereby said U-bolt is substantially centered thereby, and said projections having upper end portions extended upwardly to points above the base of said upper groove with their inner surfaces constituting upward extensions of a side of said upper groove, said extensions of the transversely aligned pairs of projections being spaced apart a distance approximately equal to the diameter of the maximum diameter of strand receivable in said groove and being of a height above the base of said upper groove at least equal to the radius dimension of said strand, whereby as said U-bolt is tilted in one direction or the other its bight moves toward the space between the transversely aligned projections at one side or the other of said U-bolt and said guy strand is pressed by the bight of the U-bolt between said projections and is transversely supported by said projections against flattening.

2,643,426
CLASP FOR BUTTONS
Tyson F. Detwiler, Upper Darby, Pa.
Application June 22, 1949, Serial No. 100,665
1 Claim. (Cl. 24—100.5)



A clasp for detachably securing a button having an eye to a piece of fabric, comprising a pair of sleeve elements spaced apart from one another, rigid spacer means fixed to and connecting said sleeve elements together and providing a gap for accommodating said eye, means for affixing said spacer means to the fabric, a pin slidably and snugly fitting within said sleeve elements and bridging said gap for penetration through said eye, said pin being slidable within said sleeves and having a free end reciprocable across said gap to engage and release said eye, limit means for restricting the longitudinal sliding movement of said pin away from said gap when said eye is released, and friction means on said pin and on one of said sleeves including a lug and a tapered groove, said groove having a tapered face that is capable of reciprocating movement with respect to said lug, said tapered face extending across the path of said reciprocating movement with capacity to engage said lug frictionally in response to the sliding movement of said pin for braking said pin against further sliding movement when said eye is engaged.

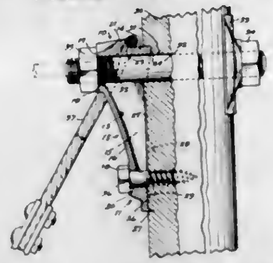
2,643,427
BUTTON FASTENING DEVICE
Dorothy McGraw Kenyon, Philadelphia, Pa.
Application December 14, 1950, Serial No. 200,767
1 Claim. (Cl. 24—104)



A button fastening device comprising an upper part having depending prong projections laterally spaced from each other with an opening in each end thereof; a bottom part comprising a plate having an upwardly-extending boss with an aperture therein, a pronged member bent at one end into J-shape and pivotally connected to said

boss within the aperture thereof, said prong member adapted to enter the openings in the projections of the upper part, laterally-extending notch means on said plate opposite to the upwardly-extending boss for receiving the longer end of the pronged member, said plate having a lateral stop projection adjacent to and parallel to said upwardly extending boss to engage the shorter end of the pronged member when the prong member is in place and to prevent its outward lateral displacement from the notch means.

2,643,428
GUY HOOK FOR ATTACHMENT TO TRANSMISSION LINE POLES OR THE LIKE
Kenneth C. Jenne, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a corporation of Connecticut
Application June 5, 1951, Serial No. 230,036
7 Claims. (Cl. 24—115)



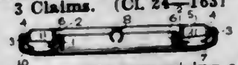
1. A guy hook for attachment to transmission line poles or the like, comprising an upper hub portion having a passage therethrough for receiving a through bolt provided with a retaining nut or the like, a lower heel portion having a substantially vertically-disposed laterally curved pole engaging surface, a tooth-like pole digging rib extending along the lower edge of said heel, and an intermediate connecting portion extending between said hub portion and said heel portion, said hub portion having a forward vertically disposed bearing surface, for engagement by said through bolt nut or the like, and a rearward surface disposed above and at each side of said through bolt passage and inclined in downwardly converging relation to said forward bearing surface whereby said hub portion is adapted, when said rearwardly inclined surface is imbedded in the pole, to constitute a downward-movement-resisting wedge between the pole and the nut or the like of the through bolt.

2,643,429
SEPARABLE FASTENER
Alfred Gustave Wittstock, Irvington, N. J., assignor of fifteen per cent to Ruth Burdick, Irvington, and twenty-five per cent to Harry C. Kern, Newark, N. J.
Application October 24, 1951, Serial No. 252,879
8 Claims. (Cl. 24—155)



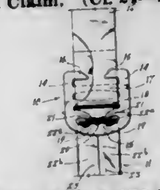
1. In a device of the class described, the combination of a casing provided with vertical slots in its sides, a fixed jaw in said casing, a lever jaw in said casing, portions of said lever jaw extending through said vertical slots, said extending portions constituting a yoke partly around said casing, and said yoke provided with a grip.

2,643,430
COVERED BUCKLE AND PARTS THEREOF
Herman Koehl, Danielson, and Hans A. Prym, Woodstock, Conn., assignors to C. E. M. Company, Killingly, Conn.
Application June 20, 1950, Serial No. 169,192
3 Claims. (Cl. 24—163)



3. A buckle assembly comprising a form piece having a substantially rectangular, hollow frame portion with rearwardly extending inner and outer edges on which are based pointed teeth that are bent-in substantially towards each other at the back opening of the hollow frame, the inner edge being devoid of teeth at its corners, and a correspondingly shaped closure member including an integral crossbar and an arched frame portion with outwardly turned edges that are caught behind the points of the bent-in teeth of the form piece, except for widened portions at the inner corners which abut the toothless inner edge corner portions of the form piece.

2,643,431
ADJUSTABLE SHOULDER STRAP AND BUCKLE ASSEMBLY
Fred Schwarz, Yonkers, N. Y., assignor to Ads Metal Products Co., Inc., Brooklyn, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 268,168
1 Claim. (Cl. 24—200)

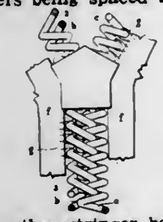


In combination with a one-piece buckle having side arms and a connecting bottom arm, a pair of lower bar portions spaced above the said bottom arm, each of said portions extending inwardly from one of the said side arms toward the other lower bar portion, a pair of projections interconnected by a recess to form an N-shaped projection extending upwardly from said connecting bottom arm spaced from the lower bar portion, the adjacent, free ends of said lower bar portions overlying said projections, and a strap of a single piece of material; said strap consisting of a main lower length, an upper length folded over said lower length and terminating at the center thereof, said upper length being folded under to form a side edge portion centrally positioned between said upper and lower lengths, and terminating short of the midpoint thereof, said upper, center and lower lengths being parallel to each other, said strap being inserted in said buckle and gripped between said bar portions and projections to permit ready adjustment.

2,643,432
SLIDE FASTENER
William W. English, Westport, Conn.
Application May 6, 1950, Serial No. 160,513
2 Claims. (Cl. 24—205.13)

1. A slide fastener comprising a pair of stringers having interlocking portions, at least the

interlocking portions of each stringer having the form of segments of a helix, the segments of one stringer comprising a pair of interleaved members each having a pitch which is double that of the segments of the other stringer, said interleaved members being spaced to receive a segment of said other stringer between each pair of adjacent segments of said interleaved members whereby the segments of the respective stringers are distorted to parallel relationship and frictionally gripped for securing said stringers together.



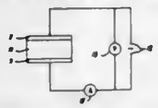
2,643,433
FASTENING DEVICE
Robert E. Scott, Southfield Township, Oakland County, Mich., assignor to George E. Gagnier, Detroit, Mich.
Application April 13, 1950, Serial No. 155,666
4 Claims. (Cl. 24—213)



1. A fastening device for removably attaching members together, comprising a snap fastener having a head shaped to provide an open border frame engageable with one member and having a shank joined to and projecting transversely from said head, said shank being positioned substantially centrally of the head for projection through an opening in another member, a resilient body of thermoplastic material having a base surrounded and confined in its entirety by the inner side of said border frame and having the outer side of said base bonded to the inner side of the border frame, said border frame having exposed surfaces projecting laterally outwardly beyond said base for direct engagement with said one member to securely clamp the latter to the other member, said body of thermoplastic material having a portion projecting from said base in the direction of said shank for sealing engagement with the marginal edges of the opening through which the shank is adapted to project, and said portion completely enclosing and bonded to the portion of the shank joined to said head.

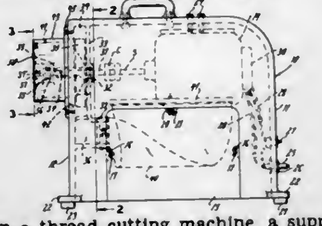
2,643,434
PROCESS FOR MAKING CERAMIC PARTS
Herbert Scharf, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Augsburg, Germany, a corporation of Germany
Application July 22, 1950, Serial No. 175,447
In Germany October 11, 1949
8 Claims. (Cl. 25—157)

1. A process for the production of sintered machine construction parts adapted to withstand severe mechanical stresses at high temperatures and abrupt changes in temperature from ceramic semi-conducting materials which includes the steps of applying electrical energy directly to the entire body of said part to develop a sintering temperature internally throughout said body, maintaining the application of electrical energy to said part for a substantial time interval with



resulting increase in the conductivity of said part as said temperature increases, measuring said increase in the conductivity of said part during said time interval, and terminating the application of electrical energy to said part when said measured conductivity reaches a predetermined maximum value and before said measured conductivity begins to decrease appreciably from said maximum.

2,643,435
THREAD TRIMMING MACHINE
Clifford Bruce Scranton and Carl T. Brewer, St. Louis, Mo.; said Scranton assignor, by decree of distribution, to Helen B. Scranton
Application July 18, 1949, Serial No. 105,296
19 Claims. (Cl. 26—10.4)

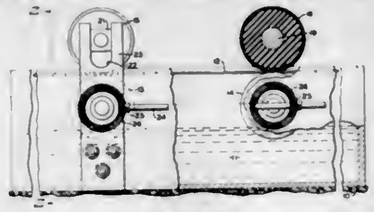


1. In a thread cutting machine, a supporting and frame structure, a motor, an air displacement device and a rotary cutter driven by the motor, a hollow head projecting outwardly of the frame structure and substantially free of peripheral obstruction, the head being connected to the air intake side of the displacement device and enclosing the cutter, the head including an end closure plate slotted to provide a tapered thread port converging into a narrow thread shearing slot directed toward and providing an air nozzle directed across the severance region of the cutter, the air displacement device acting to produce an inflow of air through the nozzle, and thread collecting means carried by the supporting and frame structure and connected into the discharge of the displacement device for entrapping and confining severed thread, the hollow head further provided with an open air-intake area immediately adjacent the cutter, but spaced from the said thread slot and tending to equalize the flow of air through the space within the head.

2,643,436
SLASHER ROLL
Joseph Rockoff, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio
Application August 15, 1949, Serial No. 110,304
10 Claims. (Cl. 28—28)

1. A slasher roll for the controlled application of sizing material to textile fibers and yarns in

textile sizing machines which comprises a surface layer of milled rubber having a substantial



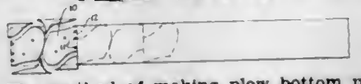
proportion of wool fibers intimately dispersed therein.

2,643,437
REINFORCED SILICA TEXTILE
Leon Parker, Burbank, Calif., assignor to The H. I. Thompson Company, Los Angeles, Calif., a corporation of California
Application September 10, 1949, Serial No. 114,998
21 Claims. (Cl. 28—78)



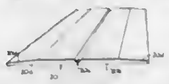
9. A textile material formed of interlaced silica filaments and other reinforcing filaments.

2,643,438
METHOD OF MAKING PLOW BOTTOM PARTS, PARTICULARLY MOLDBOARDS
William E. Ruska, Grosse Pointe Woods, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 12, 1951, Serial No. 205,768
3 Claims. (Cl. 29—14)



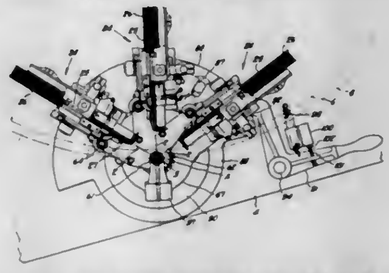
1. The method of making plow bottom parts of curved shape with bolt holes and having a hard jacket and a soft core, which comprises, grinding and cutting out blanks from flat rolled stock, chemically heat treating the separate blanks to condition them for the formation by quenching of a hard jacket, shaping the blanks while soft to final shape, quenching the shaped blanks from a heated condition, assembling the parts with others on a plow bottom, and light grinding and polishing the composite plow surface.

2,643,439
METHOD OF MAKING PLOW BOTTOM PARTS, PARTICULARLY PLOWSHARES
William E. Ruska, Grosse Pointe Woods, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 12, 1951, Serial No. 205,769
3 Claims. (Cl. 29—14)



1. The method of making plow bottom parts of curved shape with bolt holes and a finished joint edge, which comprises, rolling a double width strip in the flat with a deep flat-bottomed angular-cornered groove down the middle on one side, annealing the strips in the flat in a stack, cold-cutting double width blanks in the flat from the annealed strip stock, forming bolt holes and bringing the blanks accurately to final surface shape, bending the stock to final curvature, cutting the blanks apart and finishing the joint edge by a milling cutter while holding and guiding the stock by the center groove, oven treating and hardening the shaped and surface-finished parts to give them a hard jacket all over and a soft core, and finally light grinding and polishing the parts.

2,643,440
SUPPORT WIRE INSERTING APPARATUS FOR INCANDESCENT LAMPS
John Flaws, Jr., East Cleveland, and Lee E. Dilts, South Euclid, Ohio, assignors to General Electric Company, a corporation of New York
Application February 25, 1950, Serial No. 146,344
9 Claims. (Cl. 29—25.2)

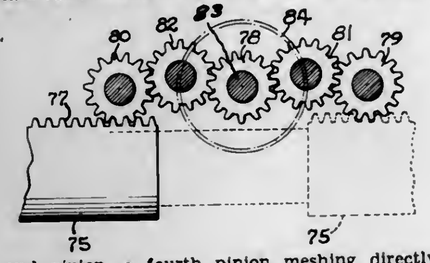


1. In a lamp mount-making machine, the combination with a carrier having heads at the periphery thereof adapted to support lamp stems and carry them along a horizontal path to successive work stations including a support-wire inserting station, of support-wire inserting apparatus located at said inserting station and comprising a plurality of inserting heads located under said carrier so as to be difficultly accessible, each inserting head including means for carrying a spool of wire and for severing a length of the wire and inserting it end-foremost into a portion of a stem at said station, support means carrying said inserting heads in fixed relative relationship and mounted for rotation at will in a horizontal plane about a vertical axis occupied by the stem in the stem-holding head at said station whereby to enable said heads to be brought out to the front of said carrier for servicing and adjustment, and vertically reciprocable actuating mechanism connected to effect operation of the inserting means in the several said inserting heads, said actuating mechanism being mounted on the axis of rotation of said inserting heads for rotation therewith while maintaining the relationship between said inserting heads and said actuating mechanism.

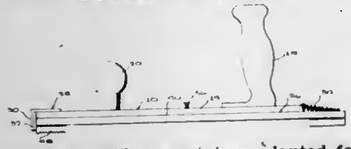
2,643,441
MACHINE TOOL
Keith F. Gallimore, Fond du Lac, Wis., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis., a corporation of Wisconsin
Application September 16, 1947, Serial No. 774,308
1 Claim. (Cl. 29—26)

In a machine tool having a rotatable and axially reciprocable spindle, means for feeding the spindle axially comprising, in combination,

a reciprocable ram axially alined with and connected to the spindle, said ram having a longitudinally extending rack on one side thereof, first, second and third drive pinions spaced along said ram and meshing directly with said rack, said second pinion being intermediately disposed relative to said first and third pinions, said above three pinions having their axes disposed in a common plane extending parallel to the axis of said ram, means for rotatably driving said second pinion, a fourth pinion meshing directly with said first and second pinions for driving the former, and a fifth pinion meshing directly with said second and third pinions for driving the latter, said fourth and fifth pinions being positioned with their axes disposed in a plane parallel to said common plane and offset outwardly therefrom relative to said rack, said fourth and fifth pinions being adjacent said rack but spaced radially outwardly therefrom.



2,643,442
RETARDING THRUST FILE HOLDER
Eugene Tury, Alexandria, Va.
Application May 29, 1952, Serial No. 290,745
3 Claims. (Cl. 29—80)



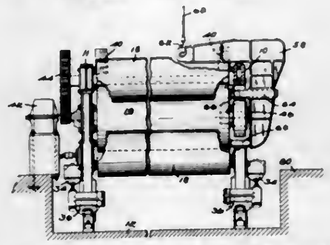
1. In a file holder, a retainer adapted for the mounting of a file thereon and including a pair of longitudinal guide flanges extending along opposite sides thereof; a slide mounted upon the retainer for movement longitudinally of the retainer, said slide including a handle adapted to be grasped by a user and a pair of longitudinal guides received within the guide flanges; a spring extending between the slide and retainer, respectively, and yieldably restraining the slide against movement relative to the retainer in one direction; stops on the slide and retainer, respectively, arranged to contact one another after movement in said direction by the slide relative to the retainer through a predetermined distance, said stops engaging the slide and retainer for joint movement in the same direction after travel of the slide over said distance; and a stop on the slide positioned to limit movement of the retainer relative to the slide in an opposite direction under the action of the spring, said first and said second-named stops being relatively arranged for spacing the first-named stops apart in the retainer-engaging position of the second-named stop, and for effecting contact between the first-named stops when the retainer is spaced from and is out of engagement with said second-named stop.

2,643,443
BROACH
Francis J. Lapointe and Elmer J. Lapointe, Ann Arbor, Mich.
Application December 9, 1950, Serial No. 199,960
3 Claims. (Cl. 29—95.1)



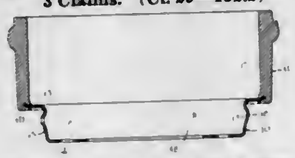
1. An internal broach having a leading end and annular sets of segmental teeth, the height of teeth in each set being different from that of teeth in other sets and the sets being in succession along the broach longitudinal axis with the set of shortest teeth first and sets of longer teeth next and certain teeth of all sets in alinement and each segmental tooth bearing a cutting edge, the teeth being characterized by the fact that the cutting edge of each tooth of each set, rearwardly successive to the set of shortest teeth, arcuately curves about the broach longitudinal axis a lesser number of degrees than the cutting edge of teeth of the next forwardly preceding set.

2,643,444
METHOD OF REMOVING VULCANIZING DRUM AND PRESSURE BAND FROM CONTINUOUS VULCANIZING MACHINES
George E. Apel, Belmont, Mass., and Don F. Collins, Pontiac, Mich., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Original application September 23, 1949, Serial No. 117,432. Divided and this application June 13, 1950, Serial No. 167,864
2 Claims. (Cl. 29—148)



1. The method of removing the vulcanizing drum from a vulcanizing machine embodying a cylindrical vulcanizing drum rotatably supported horizontally at its ends in supports mounted on front and rear side frames and including a spider carrying the front end of the drum and detachably bolted to the front side frame at an opening therethrough of a size permitting longitudinal passage of the drum, an endless pressure band disposed to engage an arcuate portion of the drum and a plurality of rolls cooperating with the drum to support the band; which consists in supporting the drum from its front end independently of the frames by a counterbalancing lifting force disposed above and substantially midway of the length of the drum and maintaining the drum in horizontal position, releasing the front spider from its frame, and moving the drum axially forward through said opening from and relative to the frames and pressure band while thus supported.

2,643,445
METHOD OF MAKING COMPOSITE BRAKE DRUMS
Paul E. Baker, Grosse Pointe Farms, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 23, 1949, Serial No. 111,801
3 Claims. (Cl. 29—152.2)



1. The method of making brake drums having an annular drum portion cast onto the generally radially extending peripheral portion of a sheet metal head portion, the head portion having radially inward of said radially extending peripheral portion, a generally axially extending tapered portion formed with an annular bead providing a radially inwardly opening oil-catching channel, and the axially extending portion terminating in a generally radially extending bolting-on portion, comprising the steps of first forming the head portion without the annular bead portion and with an axially extending tapered portion of somewhat greater width than its width in the finally formed drum, then casting the annular drum portion onto the periphery of the head portion, and finally, clamping the radial portions between dies which have elements arranged to brace part of the axial portion at spaced points on opposite sides, leaving a part therebetween unsupported and upsetting and fore-shortening the axially-extending portion to form the annular bead therein by moving said dies axially toward each other.

2,643,446
METHOD OF MANUFACTURING ELECTRICAL TERMINAL CONNECTORS
Irving F. Matthysse and Christian V. Pellier, New York, N. Y., assignors to Burndy Engineering Co. Inc., a corporation of New York
Application August 5, 1947, Serial No. 766,150
3 Claims. (Cl. 29—155.55)



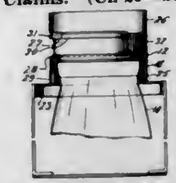
1. The method of manufacturing electrical terminal connectors from flat sheet material which comprises the following sequential steps: stamping the sheet material into a blank containing a tongue portion and a connected body portion having two free longitudinal edges all extending laterally from the sheet material, rounding the body portion to bring the two free longitudinal edges into close parallel relationship, moving the blank in a direction at right angles to the axis of the rounded body portion to a brazing strip-inserting station, stopping the movement of the blank, inserting one end of the brazing strip between the free edges of the body portion from a direction at right angles to the direction of movement of the blank, compressing the rounded body portion until the end of the brazing material is uniformly pinched by the entire free edges being simultaneously moved towards each other, cutting off the pinched portion of the brazing material from the extending strip; moving the blank and pinched brazing material in a direction at right angles to the direction in which the brazing material was inserted, heating the brazing material and adjacent edges of the rounded body portion until the material is melted, cooling the blank and melted brazing material and finally severing the tongue portion and connected body portion from the sheet material to form the electrical terminal connector.

2,643,447
COMPRESSOR CLIP FOR HYDRAULIC VALVE TAPPETS
Thomas H. Wright, Miami, Fla.
Application March 27, 1951, Serial No. 217,806
1 Claim. (Cl. 29—213)



A compressor clip for retaining a hydraulic valve tappet in compressed position, that includes a U-shaped body having a vertical wall that terminates at its upper end in a right angle head portion that is arcuately recessed in its inner face, the recess having a flat bottom the recess opening through the forward free end of the head, the forward edge of the head for the width of the recess being relatively thin, the upper face of the head portion being inclined upwardly and rearwardly, the wall at its lower end terminating in a pair of spaced apart and right angularly disposed arms for forming a rearwardly curved socket to receive the tappet, the head portion and the arms being rigid in spaced relation.

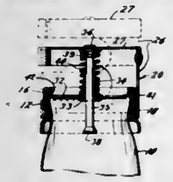
2,643,448
NURSING UNIT ASSEMBLING TOOL
Thomas E. Piazze, Mount Vernon, Ohio, assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application July 1, 1950, Serial No. 171,695
7 Claims. (Cl. 29—235.5)



1. A device for opening and expanding the mouth of a receptacle formed of flexible sheet material, said device comprising a relatively short open-ended tubular outer member having a slot in the wall thereof extending partially around

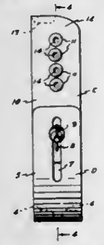
the periphery, an inner clamping disk member slidably positioned in one end of the tubular member and movable toward the other end thereof, said disk member having a peripherally extending portion projecting into the slot in the wall of the tubular member and limiting the relative movement of said members.

2,643,449
NURSING UNIT ASSEMBLING TOOL
Thomas R. Baxter, Mount Vernon, Ohio, assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application July 1, 1950, Serial No. 171,742
6 Claims. (Cl. 29—235.5)



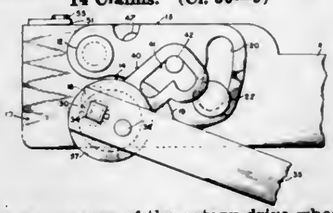
3. A device for opening and expanding the mouth of a flexible nursing bottle comprising an outer tubular member and an inner clamping disk, said outer tubular member being open at one end and having a peripherally extending slot in the side wall at a predetermined distance from said open end, said inner clamping disk having a central aperture, a depending guide pin axially secured in said outer tubular member and extending through the central aperture in said inner clamping disk, said guide pin having an abutment head thereon limiting the outward movement of the said inner clamping disk and a compression spring mounted on said guide pin and urging said inner clamping disk toward the outer limit of its movement thereon.

2,643,450
AUTOMOBILE BRAKE SHOE LINING PROTECTOR
James M. Wagner, Harrisburg, Pa.
Application August 30, 1950, Serial No. 182,191
2 Claims. (Cl. 29—283)



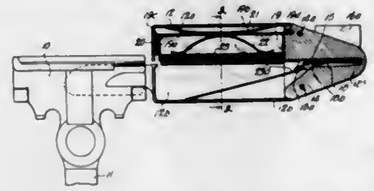
1. In a structure or device, a protector for protecting automobile brake shoe lining from damage by the pointed ends of the jaws of brake spring pliers during the removal or installation of an automobile brake shoe return spring from its normal place of attachment on an automobile brake shoe web, for providing a point of anchorage for the end of the jaws of a pair of brake shoe return spring pliers, during the removal or installation of said brake shoe return spring, said structure or device is comprised of a material, preferably of metal, of sufficient thickness to prevent penetration by the pointed ends of jaws of said pliers, to prevent damage to the said brake shoe lining during the operation of removing or installing of said brake shoe return spring from its normal place of attachment on an automobile brake shoe web, said structure or device is of sufficient width in cross section to prevent slippage from the workpiece during a service operation and is formed preferably in two segments, both segments having preferably an arcuate shape to conform to the curvature of the brake shoe workpiece, said segments are preferably connected by means of a longitudinally extending slot on the one segment and on the other segment by a through perforation in proximity to the inner end of companion segment, said segments are preferably connected at the inner end by a bolt extending through said longitudinally extending slot and through said perforation, said bolt in combination with a cup washer and nut, exerts a means of restriction of endwise movements of said segments, said lower segment at its lower outer end assumes a bifurcated hook-like portion, formed inwardly from the convex surface to accommodate the lower end of a brake shoe flange, said form prevents the upward and sidewise movement of lower outer end of said device during a service operation, said outer end of upper segment assumes a hook-like shape, formed inwardly from the convex surface of said protector, a portion of said hook-like shape is preferably eliminated in its cross-section to permit a means of attaining a sidewise movement of upper end of the device during installation or removal of said protector from an automobile brake shoe workpiece.

2,643,451
CAN OPENER
Robert E. McLean, Columbus, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee
Application March 4, 1948, Serial No. 12,910
14 Claims. (Cl. 30—9)



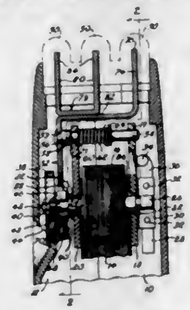
1. A can opener of the rotary drive wheel type comprising a body, a can top cutter supported thereby on one side thereof, a rotary shaft extending transversely through the body, the body being formed to allow movement of the shaft toward and away from the cutter, a can rim engaging driving wheel carried on the shaft on the side of the body adjacent to the cutter for co-operative action with the cutter, a crank connected with the end of the shaft on the side of the body opposite from the wheel and cutter, a plate movably connected to the body on the said opposite side of the body, a connection between said plate and said wheel carrying shaft whereby movement of the plate to a predetermined extent in one direction effects movement of the shaft and wheel relative to the cutter, a member carried by said plate, and means for coupling the crank and said member whereby turning of the crank in one direction will impart movement to the plate through said member and move the plate to the said predetermined extent in the said one direction.

2,643,452
INJECTOR AND BLADE DISPOSAL DEVICE FOR RAZORS
Joseph C. Fennelly, Ross, Calif., assignor, by mesne assignments, of one-half to H. Struve Hensel, New York, N. Y.
Application October 13, 1949, Serial No. 121,175
6 Claims. (Cl. 30—40)



1. An injector and blade removing device for an injector type razor comprising a housing with a razor head attaching key by which the housing is operably associated with the razor head, magazine and blade disposal compartments in the housing communicating with the blade receiving portion of the razor head through a slot in the end of the housing adjacent the razor head, blade holding means within said magazine compartment adapted to support a stack of new blades, yieldable means cooperating with said blade holding means to maintain the lowermost blade in said stack in substantial alignment with said slot, a slide between said magazine and blade disposal compartments and movable longitudinally thereof, an extractor member operable with said slide for removing a blade from the razor head through said slot into the housing upon movement of the slide in one direction, said extractor member having associated therewith a camming element adapted to displace the stack of new blades laterally of said slot to permit entry of the used blade therethrough and into the blade disposal compartment upon said movement of the slide, and an injector member on the slide for discharging the lowermost blade on said stack from the magazine into the razor upon movement of the slide in the opposite direction.

2,643,453
ELECTRIC DRY SHAVER
Louis C. Carissimi, Fairfield, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application July 29, 1949, Serial No. 107,589
6 Claims. (Cl. 30—43)



3. An oscillator arm for an electric shaver having an orifice adapted to encircle an eccentric, and an insulating plastic sheath formed of nylon molded on said arm and forming a lining around at least a portion of said orifice, said sheath being provided with parallel faces inside said orifice adapted to cooperate with said eccentric for actuation of said arm.

2,643,454
DEHORNING DEVICE
William L. Kuhns, Clayton, N. Mex.
Application August 22, 1949, Serial No. 111,702
1 Claim. (Cl. 30—253)



In a device for dehorning calves and cutting curved recesses in the bony ridge at the base of the horns, a pair of handles, an arcuate blade fixed to and extending forwardly from each handle, and a pair of opposed pins pivotally connecting the blades with forward portions of one blade in overlapping relation to the other blade, said blades having their outer edges sharpened, one of said blades having its cutting edge located in a plane normal to the axis of the blades and said other blade having its cutting edge located in a plane inclined forwardly and outwardly with relation to said axis, the inclination of the cutting edge of said other blade causing the cutting edge of said blade to move when said blades are being closed in a greater arc than said cutting edge of said one blade whereby to form said recesses during the dehorning operation.

2,643,455
ARTIFICIAL TEETH
Melvin Budish, Worcester, Mass.
Original application December 17, 1949, Serial No. 133,528. Divided and this application August 15, 1951, Serial No. 241,919
2 Claims. (Cl. 32—8)



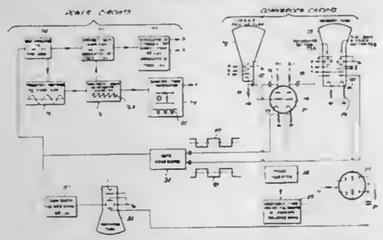
1. A false tooth comprising a short base portion having an integral ridge at the labial aspect thereof and a layer of enamel covering the said labial aspect and the ridge, said ridge extending beyond the incisal edge of the base portion and being substantially co-terminous with the incisal edge of the enamel layer.

2,643,456
DENTAL HAND INSTRUMENT
Jakob Maurer, Kilchberg, and Robert Maurer, Zurich, Switzerland, assignors to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application February 23, 1951, Serial No. 212,222
In Switzerland February 25, 1950
20 Claims. (Cl. 32—58)



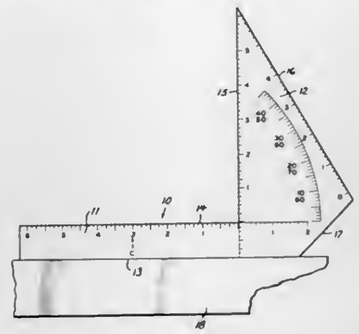
1. A unitary dental hand tool comprising an elongated body of relatively small size in cross section adapted for insertion in the mouth and provided with conductors terminating in juxtaposed nozzles, means connected with one of said conductors and adapted for connection with a source of fluid under pressure containing abrasive material for projecting the same through said conductor and the nozzle thereof against a tooth surface, said nozzle for abrasive material having a relatively small opening for confining a jet of said material to particular portions of said tooth area, means connected with the other of said conductors and adapted for connection with a source of sub-atmospheric pressure for withdrawing said fluid and material through said other conductor and the nozzle thereof by suction after abrading contact with said tooth surface and means for detachably connecting said pressure conductor with the nozzle thereof for detaching and replacing said nozzle.

2,643,457
NAVIGATIONAL AID DEVICE
David Skalka, New York, N. Y.
Application March 11, 1949, Serial No. 80,880
6 Claims. (Cl. 33—46.5)



1. A system for determining at least one of the parameters, speed and direction relative to a body, of an object in motion comprising cathode ray tube means for observing a plurality of successive images of said body on a cathode ray tube screen as said object moves with respect thereto, means for sectionally analyzing each of said images by radial scanning of a cathode ray beam in a plurality of radial directions aligned with a plurality of possible directions of the apparent motion of said images of said body with respect to said object, and means for determining the actual direction of said apparent motion including an electrical device for selecting that direction of motion of said ray in which identical sectional analyses in different such images occur.

2,643,458
DRAFTING IMPLEMENT
Edgar E. Kellems, Pasadena, Calif.
Application March 3, 1948, Serial No. 12,790
2 Claims. (Cl. 33—104)



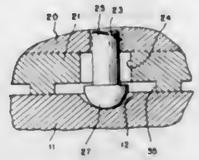
1. A drafting implement, involving: a flat member of generally L form having three external edges, there being a first and a second external edge at 60° internal angle to each other and a third intervening edge at 45° external angle to said first edge and 75° external angle to said second edge, there also being two perpendicularly related internal edges, one thereof being parallel to said first edge and the other converging at 30° included angle relative to said second edge.

2,643,459
MEASURING DEVICE FOR PISTONS IN DEPTH ENGINES
Bobbie E. Beers, Sweet Home, Oreg. and Selmer G. Snortland, Valier, Mont.
Application March 1, 1950, Serial No. 147,112
5 Claims. (Cl. 33—143)
(Granted under Title 35, U. S. Code (1952), sec. 266)



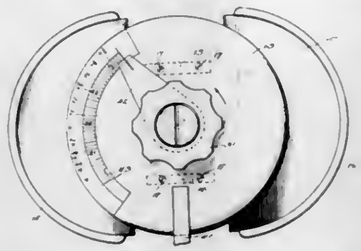
1. A gage for indicating the rectilinear distance between adjacent walls of spaced grooves formed in the inner surface of a hollow body comprising a cylindrical bearing member having an eccentric bore formed therethrough, a shaft received within said bore for rotation and reciprocation therein, and a pair of spaced contacts carried by said shaft.

2,643,460
HARDNESS TESTING INDICATOR
Harry W. Dietert, Detroit, Mich., and William P. Adair, Mayfield Heights, and Elmer C. Zirzow, Cleveland Heights, Ohio, assignors to Harry W. Dietert Company, Detroit, Mich., a corporation of Michigan
Application August 9, 1948, Serial No. 43,257
1 Claim. (Cl. 33—172)



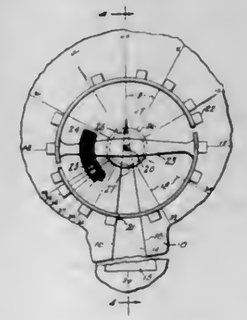
Apparatus for measuring the depth of indentations formed by pressing a hardened ball into a flat surface of a specimen, comprising an indicator including a housing having an opening thereinto, a movable plunger longitudinally movable in said opening having a laterally enlarged spherical head shaped to enter an indentation and to contact the indentation at its deepest point, a pointer movable in accordance with movement of said plunger, a dial over which said pointer is movable, a locator plate on said indicator having an opening therethrough aligned with the opening into said housing through which said plunger is movable, the opening in said plate being laterally enlarged with respect to the opening into said housing to receive the head of said plunger, said locator plate having a bottom gauging surface provided with a laterally enlarged recess in said gauging surface surrounding said opening and spacing the adjacent portions of said gauging surface substantially from the head of said plunger to avoid contact with raised material adjacent the indentation in the specimen, the recess in said locator plate being substantially U-shaped and opening laterally into a side surface of said plate and providing a sight opening to facilitate proper location of the outer end of said plunger in registration with an indentation in the surface of a specimen.

2,643,461
HEADWEAR SIZING GAUGE
Albert Wiebe, Brooklyn, N. Y.
Application April 11, 1949, Serial No. 86,835
13 Claims. (Cl. 33—178)
(Granted under Title 35, U. S. Code (1952), sec. 266)



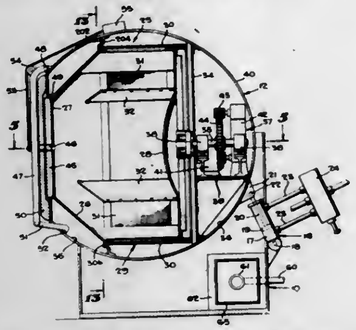
1. A gage for determining the sizes of hats, caps and the like comprising, in combination, a pair of curved contour plates adapted to contact the interior of the hat or cap; means for slidably supporting and guiding the contour plates so that they must move in straight lines toward or away from each other; a central pivotal member; a pair of eccentric plates fixed to the central pivotal member; a pair of links to form a driving connection between said eccentric plates and the contour plates; a knob or handle connected to the central pivotal member for turning the same; said pivotal connections between the links and the eccentric and contour plates being so located that turning the knob or handle in one direction will cause the contour plates to move equal distances toward each other; a spring connected to the central pivotal member to cause the contour plates to separate; stop means to prevent separation of the contour plates beyond a predetermined extent; a pointer secured at one end to the central pivotal member; and a scale fixed to said supporting and guiding means and co-operating with the outer end of the pointer to give readings commensurate with the sizes of the hat or cap.

2,643,462
BALANCE ASSEMBLY GAUGE
Tobias Garon, Detroit, Mich.
Application January 8, 1952, Serial No. 265,404
1 Claim. (Cl. 33—184)



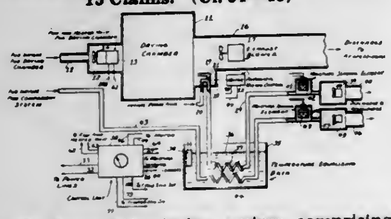
A balance assembly gauge for watchmakers comprising a sheet metal gauge plate, and depending side flange means mounting it in a manner to provide a clear space beneath it, the gauge plate having an opening, two of whose sides join to define a V or apex of small angularity, said plate having thereon a plurality of gauge lines radiating from a point on said plate, said point from which the lines radiate being within the V or apex of the opening, the opening having an entry portion at least large enough to permit entry therethrough from above the plate, of the safety roller portion of a double roller table of an assembly of a balance wheel, double roller table, roller jewel, hair spring, and balance staff, whereby the roller jewel of said assembly may be positioned in the V or apex of the opening, and the circular relation or position of the hair spring stud disposed above the plate, with respect to said jewel then in the apex, may be indicated by the registry of said stud, above the plate, with one or another of the various radiating lines on said plate, beneath said stud, the clear space under said plate provided by said flange being high enough to enable the safety roller of the double roller table to fit beneath the plate when the jewel thereof is within the apex.

2,643,463
LAUNDRY APPARATUS
Frederick W. Grantham, Los Angeles, Calif.
Application December 11, 1948, Serial No. 64,853
17 Claims. (Cl. 34—45)



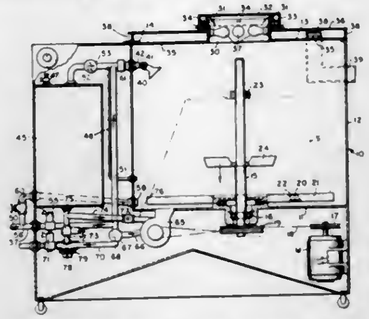
8. In drying apparatus: a support; an outer housing tiltably mounted in said support; means for tilting said housing; an inner perforate drum rotatably mounted in said housing about an axis substantially at right angles to the tilting axis of said housing; said housing and drum having openings substantially aligned with each other and with the drum axis; closure means for at least one of said openings; reversible drive means including a reversible electric motor carried by said housing for rotating said drum alternately in opposite directions; electrical timing means controlling the application of current to said motor to effect its reversal at periodic intervals; means comprising an electric motor for circulating a heating medium through said drum; and means having a member carried by said housing and cooperating control means operated by said member to effect operation of said circulating motor and of said timing means at a relatively slow rate when said housing is in its normal drying position, said control means being operated by said member to discontinue operation of said circulating motor and to effect operation of said timing means at a faster rate when said housing is tilting from its normal drying position, said control means also stopping said timing means to discontinue rotation of the reversible motor when said housing is tilted to its unloading position.

2,643,464
AUTOMATIC DRYING CONTROL SYSTEM
Robert E. Hadady, Silver Spring, Md., assignor to The American Instrument Company, Inc., Silver Spring, Md., a corporation of Maryland
Application March 7, 1949, Serial No. 79,949
15 Claims. (Cl. 34—48)



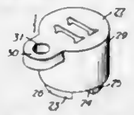
1. An automatic drying system comprising a chamber, a source of heated air connected to said chamber, a sampling conduit connected to said chamber, an atmospheric air intake duct connected to said sampling conduit, valve means at the connection of said duct to said conduit regulating the amount of atmospheric air admitted into said conduit, a moisture-sensitive element in said sampling conduit, a control device connected to said source, and a control circuit connected to said control device, said control circuit including the moisture-sensitive element.

2,643,485
CLEANING AND DRYING APPARATUS
Wallace C. Douglass, Tuckahoe, N. Y.
Application November 6, 1948, Serial No. 58,710
6 Claims. (Cl. 34—58)



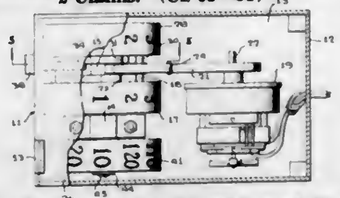
1. In cleaning and drying apparatus, a cleaning tank, a shaft rotatably mounted in the bottom of the tank and extending into the tank, a disk mounted on the shaft in a position spaced from the bottom of the tank, a plurality of fan blades radiating from said shaft above the disk, means for securing an article to be cleaned on the upper edges of said fan blades, a cover for the tank, said cover having an opening for admitting air to the tank, air heating means in the path of the incoming air, means for conducting moist air from the casing, and means for rotating the shaft.

2,643,466
GAME INSTRUCTION APPARATUS
Rudolph S. Bucher, Upper Darby, Pa.
Application April 19, 1950, Serial No. 156,854
3 Claims. (Cl. 35—7)



1. For use in game instruction apparatus of a type comprising a flat metallic body member having a surface representing a play area, and a plurality of magnetic markers slidably adjustable and magnetically retainable in adjusted positions on said surface and representing individual players, a magnetic marker comprising a magnetic core, and a non-metallic envelope embracing the said core and including a projecting lug having an aperture, and a combined actuating and marking element insertable through said aperture and operative manually to move the marker in the play area and to simultaneously mark the path of movement on said surface.

2,643,467
DEVICE FOR TEACHING ARITHMETIC
Lewis D. Goodwin, North Tonawanda, N. Y.
Application August 31, 1951, Serial No. 244,561
2 Claims. (Cl. 35—31)



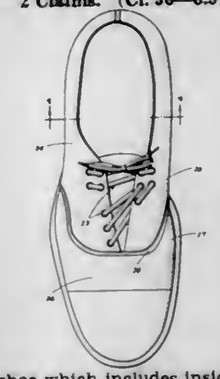
1. An educational toy for teaching arithmetic comprising a support, a pair of spaced coaxial wheels rotatably mounted on said support, means coupling said wheels for simultaneous rotation, a ratchet disc rigidly connected to said wheels, a rotary driving member mounted on said support, a pawl eccentrically connected to said driving member and drivingly engaging said ratchet disc, a third wheel rotatably mounted on said support coaxially with said pair of wheels, a ratchet disc secured to said third wheel, means on said pawl drivingly engageable with said last-named ratchet disc, the periphery of said first-named ratchet disc being formed with spaced notches, all but one of said notches being relatively shallow and preventing engagement of said pawl with the last-named ratchet disc, said pawl being engageable with the last-named ratchet disc only when the pawl engages in the deeper notch of the first-named ratchet disc, whereby the last-named ratchet disc is rotated through a single step of actuation thereof for each complete revolution of the first-mentioned pair of wheels, spaced numerical indicia on the peripheries of the respective wheels, said indicia being angularly spaced by distances corresponding to said single step of actuation, and a manually movable abutment element carried by said support and arranged to be moved at times to a position engaging the pawl and preventing the pawl from fully entering said deeper notch, thereby preventing actuation of said third wheel.

2,643,468
RUBBER FOOTWEAR HAVING A FLARED UPPER
Emil Gottschalk, New York, N. Y., assignor to Gem Rubber Corporation, New York, N. Y., a corporation of New York
Application August 4, 1951, Serial No. 240,360
1 Claim. (Cl. 36—7.4)



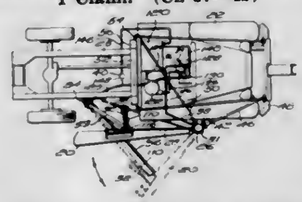
A rubber overshoe having a sole portion and an upper, the lower portion of the upper conforming substantially to the shoe for which it is to be used up to ankle height, the circumferential portion above said lower portion being circumferentially continuous and flared outwardly at the rear thereof, the rear end of said flared-out portion having an incurved portion at its upper edge, whereby said flared portion may be folded upon itself to form a collar providing an outstanding rear portion which forms a splash protector and whereby said incurved upper rear edge results in setting up a tension in the folded position which holds the collar in place.

2,643,469
SHOE CONSTRUCTION WITH DIAGONAL LACING
Matt D. Herceg, Stockton, Calif.
Application March 17, 1951, Serial No. 216,189
2 Claims. (Cl. 36—8.5)



1. In a shoe which includes inside and outside quarter portions, rows of eyelets along the adjacent edges of said portions, and lacing threaded between said rows of eyelets with substantially all of the cross-overs diagonaling rearwardly from the outside quarter portion to the inside quarter portion; each row including a pair of transversely spaced eyelets, and the adjacent part of the lacing spanning between and extending down through said pairs of eyelets.

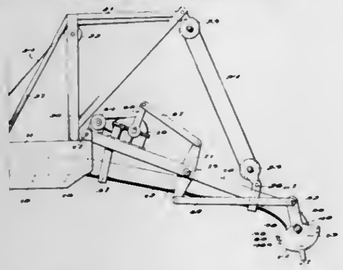
2,643,470
WING PLOW STRUCTURE
George L. Kaeser, Hartford, Conn.
Application March 14, 1947, Serial No. 734,575
1 Claim. (Cl. 37—42)



In a wing plow construction, a vehicle having a frame and front wheels, a vertical mast on said frame at the side thereof to the rear of said front wheels, an elongated horizontal strut having one end mounted on said mast for vertical movement there along and pivoted thereto for horizontal swinging of said strut relative to said frame, an elongated plow blade mounted on the other end of said strut for pivotal movement about a horizontal axis parallel to the lower edge of said blade, means for yieldingly holding said blade in plowing position but permitting movement rearwardly of the lower edge of said blade upon overload when said blade meets with an obstruction lower than the pivotal axis of said blade, a hydraulically operable system connected between said frame and said strut, said system having means for horizontally swinging said strut

and blade outwardly into plowing position at a substantial angle to said frame, and means in said system permitting said strut and blade to swing inwardly upon overload when said blade meets with an obstruction higher than the pivotal axis of said blade, said last-named means including a by-pass and relief valve.

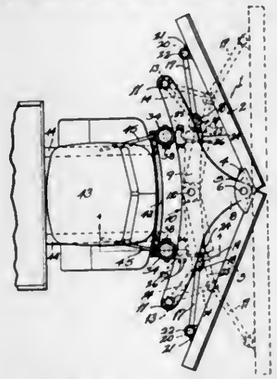
2,643,471
SUCTION DREDGE NOZZLE
Jesse M. Ragsdale, Fort Gibson, Okla., assignor of one-half to Ira B. Pate, Muskogee, Okla.
Application January 24, 1949, Serial No. 72,303
6 Claims. (Cl. 37—58)



5. A unitary suction device adapted to be mounted on dredges and the like comprising a frame, a suction pipe carried by said frame and having a nozzle positioned at one end thereof, a pair of arms pivotally mounted on opposite sides of said nozzle, a single flat relatively narrow digger blade mounted on said arms and extending across the mouth of said nozzle and transversely of the plane of said mouth in close proximity to its side edges, and power operated means for oscillating said digger blade transversely of its length back and forth across the mouth of the nozzle in an arc terminating adjacent the opposite ends thereof to agitate and loosen material adjacent thereto and maintain the nozzle clear of debris.

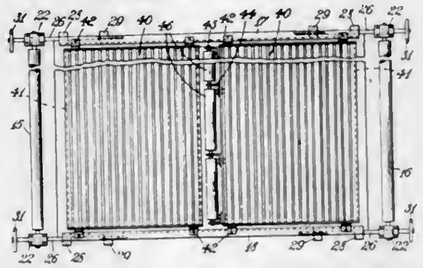
2,643,472
BULLDOZER
John W. Merz, Belton, Mont.
Application September 12, 1949, Serial No. 115,224
7 Claims. (Cl. 37—144)

1. A bulldozer attachment for a vehicle comprising a cross bar having means for mounting the same across the front of a vehicle transversely thereof, a frame in front of said cross bar, cylinders mounted vertically at the front of said cross bar with piston rods projecting from their upper ends, sleeves disposed vertically and fitting about said cylinders and having their upper ends connected with upper ends of the piston rods, pins projecting forwardly from said sleeves and pivoted for transverse movement, said frame carrying sleeves extending horizontally in a longitudinal direction and fitting loosely about said pins and mounting the frame for transverse tilting movement to angularly adjusted positions, blades extending transversely of said frame at the front thereof and having their inner ends pivoted to the frame for pivotal movement to angularly adjusted positions, links pivoted to ends of the cross bar and outer ends of said blades respectively and having their inner ends pivotally connected with each other, and cylinders pivoted midway the width of said frame and extending towards opposite sides thereof and having piston rods projecting from their outer ends and each pivotally connected with the inner ends of a companion pair of front and



rear links and when shifted longitudinally tilting the links to swing the blades horizontally to angularly adjusted positions.

2,643,473
IRONING MACHINE
Bernard Leslie George Newnham, North Walsham, England
Application February 20, 1950, Serial No. 145,136
In Great Britain February 22, 1949
9 Claims. (Cl. 38—8)

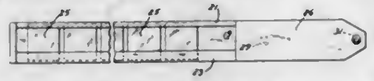


1. A laundry ironing machine comprising a heated bed of serpentine form, parallel ironing rollers mounted to ride in the furrows of the bed, an endless band of water-absorbent material and of substantially the same width as the ironing rollers for conveying articles to be ironed over the bed under the rollers, guide rollers for the endless band mounted adjacent the ends of the bed parallel to the ironing rollers, said endless band having a lower run passing over the bed under the ironing rollers and an upper run stretched over the guide rollers above the ironing rollers, and a heater device adjacent the upper run of the band for effecting a continuous drying of that run during the ironing operation whereby the band is substantially dry when it enters the machine for its passage over the bed.

2,643,474
DISPLAY MEANS
Leo D. Grenot, Oakland, Calif.
Application August 5, 1946, Serial No. 688,484
3 Claims. (Cl. 40—102)

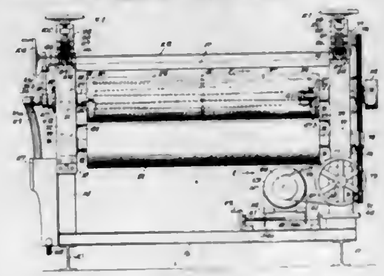
3. A display folder comprising a strip of foldable material having its longer edges folded over,

a plurality of transparent display envelopes disposed along the greater portion of said strip with one edge of each envelope tucked in beneath one of said folded edges and affixed therein and its opposite edge freely tucked in beneath the opposite folded edge of said strip, said envelopes



each being spaced from adjacent envelopes sufficient to permit folding of said strip with said envelopes affixed therein to effect a stacking of said envelopes, the remaining portion of said strip being of a length sufficient to wrap around such stack, and means for holding said remaining portion wrapped about said stack.

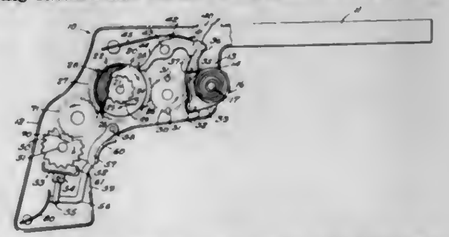
2,643,475
MACHINE FOR APPLYING DECAL FILMS TO BASE SHEETS
Jess D. Klopfenstein, Oak Park, Ill., assignor to The Meyercord Company, Chicago, Ill., a corporation of Illinois
Application April 22, 1950, Serial No. 157,462
7 Claims. (Cl. 41—1)



1. Roll control means for a transfer applying machine of the type including a pair of opposed rolls between which a base sheet and a superimposed film may be passed under pressure, said control means comprising an overrunning clutch adapted to be operably connected to one of the rolls, positive drive means connected to said clutch for driving said one roll through said clutch at a predetermined surface speed, and positive drive means adapted to be connected directly to the other roll for driving the latter initially at a higher surface speed than said predetermined speed of said one roll, said clutch being operable to disrupt the driving connection between said one roll and said first-mentioned drive means in response to an increase in surface speed of said one roll.

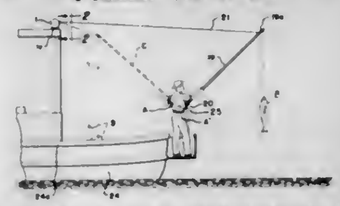
2,643,476
CONTINUOUS SHOOTING CAP PISTOL
Joseph D. Kilgore, Athens, Ohio
Application July 2, 1951, Serial No. 234,738
2 Claims. (Cl. 42—57)

1. A toy pistol adapted to fire a single shot or full automatic from a roll of caps in strip form, comprising motive means including a rotatable spring drum, cap firing mechanism adapted to be actuated by said motive means for firing one or a succession of caps from said roll, trigger actuated control means for said motive means adapted in one position to restrain rotation of said spring drum and in another position to permit rotation thereof, said control means including ratchet and rocker mechanism, normally re-



straining the motive means, but arranged to release the same on application of pressure to the trigger.

2,643,477
FISH CATCHING APPARATUS
Guy H. Silva, San Diego, Calif.
Application July 2, 1948, Serial No. 36,627
6 Claims. (Cl. 43—6.5)

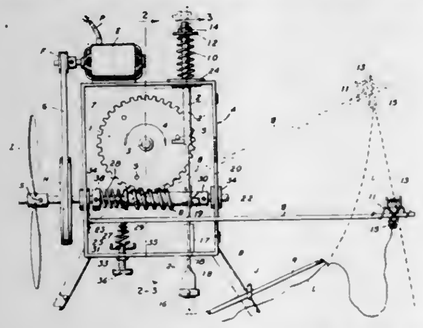


1. In a fish catching apparatus, a boat, a drum revolubly mounted in elevated position on said boat having a cable wound thereon, a motor for operating said drum, said cable extending from said drum and in elevated position relatively to the deck of said boat, a fishing pole adapted to be manually operated having its outwardly extending end connected with said cable, a fishing line on said pole for catching fish thereon, switch means on said pole for controlling said motor and supporting socket means adapted to be mounted on an operator for supporting the opposite end of said pole.

2,643,478
FISHING LINE AGITATOR
Herman H. Paulsen, Flandreau, S. Dak.
Application July 21, 1952, Serial No. 300,065
8 Claims. (Cl. 43—19.2)

1. A fishing line agitator comprising a casing, a gear, depressor pins rigid with and rotating with said gear, a pair of bearings in said casing, a shaft mounted in said bearings, a clutch collar secured to said shaft to rotate therewith, a stop collar fixed to said shaft against axial displacement, a drive worm rotatable about the axis of said shaft and in driving engagement with said gear and having an end face engaged and driven by said clutch collar, a release spring disposed between the other end of said worm and said stop collar and exerting pressure on said worm to force it toward said clutch collar, and means for rotating said shaft, said casing having an opening in the top, a slot in one side and a second slot in the bottom thereof in combination with a vertically reciprocable slide, a removable member disposed in the first mentioned opening in and supported by the top of said casing, an agitator compression

spring disposed about said slide and confined between the upper portion thereof and said member, a lever pivotally connected to one side of said casing and extending through the first mentioned slot in the opposite side thereof, a pair of jaws carried by said lever to releasably grip a fishing line between them, a finger extending rigidly at right angles from said slide and normally lying in the path of travel of and engaged by one of said depressor pins, a catch pivotally mounted on said slide to engage under said lever and having a stop engaging said slide to limit the



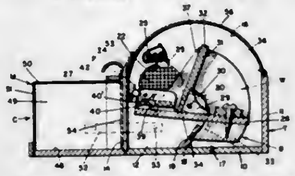
forward pivotal movement thereof, said slide having its upper portion slidably and partially rotatably supported by said member and its lower portion of thin elongated form in cross-section and snugly slidably received in said second slot in said casing, the lower portion of said slide having a twist substantially at right angles to the rest of said slide to cause the slide with its catch as it moves to its extreme raised position to make a partial rotation about its axis to such degree as to swing said catch out of the path of travel of the lever to release the latter and permit it to drop by gravity to its lowest position.

2,643,479
TRAP HOOK
James E. Stevenson, Arcadia, Calif.
Application September 17, 1949, Serial No. 116,265
5 Claims. (Cl. 43—36)



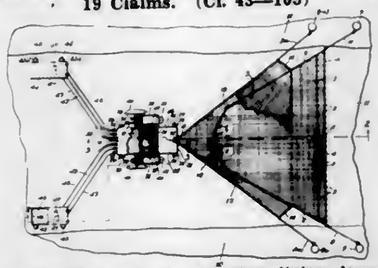
1. A fish lure comprising: a pair of pivotally interconnected body members; a fish hook attached to each of said body members and extending beyond the body members at one side of the pivotal connection; spring means engaging the body members and normally urging one body member to rotate relative to the other body member to spread the hooks apart; a latch member movably mounted on said other body member and movable into engagement with said one body member when the body members are in a position with the hooks slightly spaced from each other, to resist in compression rotation of said one member relative to the other member in a direction tending to spread the hooks but leaving said one member free to rotate in the opposite direction; and a second spring means normally urging the latch member to a position out of engagement with said one body member.

2,643,480
TRAP
Dan H. Jones, Lakeview, Oreg.
Application February 27, 1948, Serial No. 11,440
3 Claims. (Cl. 43—70)



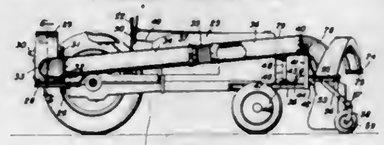
1. An animal trap comprising a housing having side walls and end walls, one end wall having an entrance opening and a side wall having an animal discharge opening, an animal receiver communicating with the discharge opening, an elongate trapping structure in the housing and having ends adjacent to the housing end walls, pivots at the ends of and supporting the structure for tilting on a longitudinally extending axis extending parallel to said side walls, an elongate plate pivotally supported on the trapping structure to oscillate on an axis perpendicular to the first axis, a latch element pivoted on one end of the structure remote from the entrance opening and engaging a fixed keeper on an adjacent wall for securing the trapping structure in set position against tilting relative to the entrance opening, and an operative coupling between the trigger plate and said latch element acting to turn the latch element upon oscillation of the trigger plate by an animal passing over the plate pivot support from the entrance opening, to disengage the latch element from the fixed keeper, to free the trapping structure and plate for tilting as a unit on the first axis in a direction to discharge the animal toward said discharge opening.

2,643,481
FISH CLASSIFYING MEANS
Lothar A. Ederer, Chicago, Ill., assignor to Keal Products, Inc., Evanston, Ill., a corporation of Illinois
Application August 29, 1950, Serial No. 182,045
19 Claims. (Cl. 43—105)



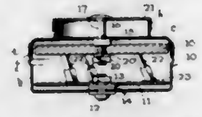
1. The method of removing living lampreys from a body of water containing other types of marine life which comprises the following steps: obstructing a flowing body of water, thereby collecting marine life in said body of water, guiding said life to and into a classifying zone, therein classifying said life and removing the lampreys from the other types of life, discharging all but the lampreys into said body of water, guiding the lampreys upstream from the classifier along restricted currents of water, and collecting said lampreys in containers.

2,643,482
MOBILE SUCTION MACHINE FOR REMOVING INSECTS FROM PLANTS
Harry S. Wilson, Andrews, Tex.
Application March 26, 1948, Serial No. 17,324
3 Claims. (Cl. 43—140)



1. In a mobile suction machine for removing insects from plants, a portable frame, a vertically adjustable support mounted on the frame, a pair of vertical boots carried by the support, said boots having open sides arranged so that the open sides are in opposed relation, air discharge nozzles carried by the support and facing the open sides of the boots, a common receptacle for said boots, upwardly arched conduits leading from the sides of said boots opposite said open sides to the receptacle, each of said conduits having a longitudinal bottom slot in its underside coextensive therewith whereby the pressure of the air entering the boots and forcing insects from the plants therein will be gradually diminished as it approaches the receptacle, said conduits having juxtaposed discharge ends, and a ring coupling said ends together and to said receptacle and detachably suspending the receptacle.

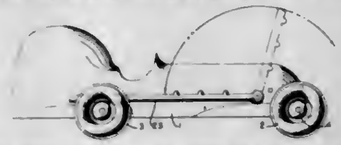
2,643,483
WILD GAME CALLING DEVICE
William J. Walker, Sagamore, Pa.
Application June 13, 1952, Serial No. 293,353
10 Claims. (Cl. 46—189)



1. A wild game calling device comprising a pair of spaced members having substantially co-extensive opposing surfaces, means supporting said members in said spaced relation for relative rotation about the same axis, one of said members being a vibratory member, a plurality of pegs projecting laterally from a surface of said vibratory member and having their free ends in rubbing contact with the other of said members, when said members are moved relative to one another, thereby to produce game calls, and means for effecting said relative rotatable movement of said members.

2,643,484
SPRING PROPELLED TOY VEHICLE
Raymond J. Poulin, Santa Monica, Calif.
Application May 9, 1950, Serial No. 160,922
3 Claims. (Cl. 46—206)

1. A spring propelled vehicle having traction wheels rigid on its front axle, the vehicle having a hub inwardly projecting from one side thereof, a propelling pinion rigid on the vehicle axle, a power shaft in the vehicle parallel with the axle thereof, said shaft having gear teeth at one end thereof, a power spring having one end thereof anchored in said shaft, the other end of the spring being fastened to the vehicle body, an operating handle having its inner end bent to form a shank seated for oscillation within said hub, the shank having ratchet teeth on the inner face thereof, a gear wheel coaxially seated for rotation on the hub in mesh with the gear teeth of the power shaft, said gear wheel having ratchet teeth on one end thereof for engagement with the ratchet teeth of the handle, means urging the handle shank inwardly to move the teeth of the shank into engagement with the gear



wheel teeth to wind the power spring upon rotation of the handle, a gear wheel rigid on the power shaft, a lever rotatable on the power shaft, and a pinion pivotally mounted on one end of said lever and permanently in mesh with the power shaft gear wheel, the weight of said pinion tilting the lever normally to maintain the pinion in mesh with the vehicle axle pinion, rotation of the power shaft to wind the spring causing the pinion of the lever to rise out of mesh with the axle pinion.

2,643,485
PRODUCTION OF LIGHTWEIGHT AGGREGATE FROM MOLTEN SLAG
Lee A. Edwards, Sheffield, Ala., assignor to Tennessee Valley Authority, a corporation of the United States
Application April 26, 1951, Serial No. 223,130
2 Claims. (Cl. 49—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

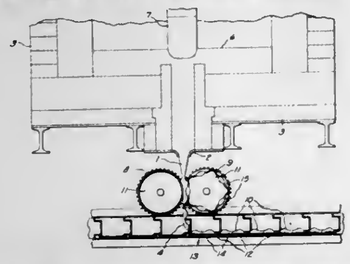


1. In a device for expanding slag the combination of a water-tight receptacle; a false bottom having a plurality of openings therethrough disposed in said receptacle; a plurality of loose-fitting plugs singly disposed through each of said openings, each of said plugs comprising a loose-fitting head large enough to cover one of said openings, a shank having effective length slightly greater than the thickness of said false bottom, and a retaining member attached to said shank beneath the false bottom; means for introducing water into said receptacle; and means for introducing molten slag into said receptacle above said false bottom.

2,643,486
APPARATUS FOR FORMING A RIBBON OF GLASS
Chester A. English, Niles, Ohio, assignor to General Electric Company, a corporation of New York
Application December 31, 1949, Serial No. 136,328
1 Claim. (Cl. 49—33)

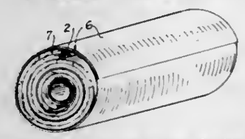
In glass working apparatus of the character described, a pair of spaced ribbon-forming feed rolls with cooperating peripheral faces, at least one roll being hollow and having pockets therein defined by the wall of its peripheral face, said wall being of substantially uniform thickness at the periphery of each said pocket and having

a thickened center portion of double convex form so that each said pocket is of reduced depth



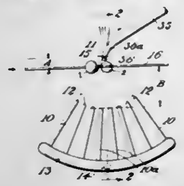
at the center and dissipation of heat therefrom is minimized.

2,643,487
METHOD OF PRODUCING BATTS OF SILICA FIBERS
Leon Parker, Burbank, Calif., assignor to The H. I. Thompson Company, Los Angeles, Calif., a corporation of California
Application March 23, 1951, Serial No. 217,153
5 Claims. (Cl. 49—77)



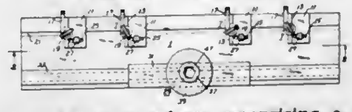
1. A method of dehydrating batts of leached and hydrated glass, siliceous fibers, which comprises inter-rolling a continuous web of batt and paper to form a roll wherein an inner hollow core is formed said roll having sufficient rigidity to maintain its shape during heating, rapidly heating said roll to a dehydrating temperature above the ignition point of the paper, burning the paper layers, and dehydrating the batt.

2,643,488
METHOD OF MAKING GLASS BEADS
Paul Lebrun, Long Island City, N. Y.; John C. Glenn, administrator of the estate of Paul Lebrun, deceased
Application December 26, 1946, Serial No. 718,544
1 Claim. (Cl. 49—85)



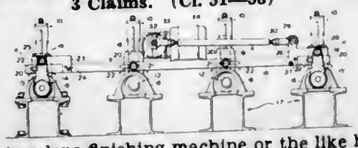
In a method of making glass beads on a rotating horizontal wire, in which a glass rod is subjected to an inclination to the perpendicular with its lower end in the focal point of a gob forming heating flame above the axis of rotation of said wire, and to a movement to sever a gob on said wire and deposit it on the wire, forming a preliminary bead, the improvement which consists in forming an adjacent second bead on said wire by adding another gob to the wire at such a distance from the preliminary bead as to include the preliminary bead and the wire between the preliminary bead and the second gob, within the heating flame while forming the second gob into said second bead, and at such a distance from the preliminary bead for the preliminary bead to receive deflected rays from the gob forming glass rod during the formation of the second bead, to spherically perfect the preliminary bead while in substantially fluid state while under the direct and deflected rays during the formation of the second bead, and then cooling the preliminary bead by moving it out of the path of said rays.

2,643,489
ROCKER ARM REFACER
Vernon L. Helm, Yakima, Wash.
Application October 15, 1951, Serial No. 251,277
4 Claims. (Cl. 51—56)



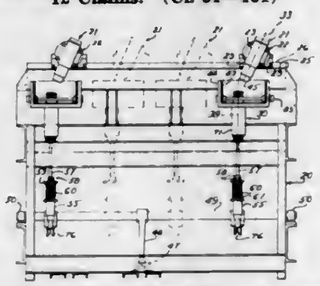
1. A rocker arm refacer comprising a base; means for clamping a rocker arm shaft with rocker arms intact, in spaced relationship to said base, said means including a plurality of clamps disposed at spaced aligned locations along said base, each including an L-shaped support having a portion in slidable contact with said base and a portion normal thereto, said slidable contact portion having a slot therein and said normal portion being provided with a V-notch in its upper edge to receive a shaft to be clamped, a bracket affixed at one end to the normal portion of said support and at its other end having a threaded passage into which is threadedly assembled a clamping screw, and a machine screw passing through the support slot and threadedly engaging said base to fix said clamp in any adjustable position within the range of said slot; means for refacing each of such rocker arms, said refacing means comprising a grinding wheel movable along a path paralleling said aligned clamps, means for reciprocating said grinding wheel while a rocker arm is held in contact therewith; and means for applying a rotational force to said grinding wheel.

2,643,490
LENS FINISHING MACHINE
Kenneth C. Burroughs, Plainville, Mass., assignor to Burroughs Optomat, Inc., New York, N. Y., a corporation of Massachusetts
Application December 5, 1950, Serial No. 199,337
3 Claims. (Cl. 51—58)



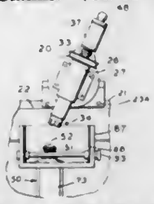
1. In a lens finishing machine or the like having a plurality of rotatable finishing tool heads and spindles and a plurality of work spindles cooperable therewith for carrying work in contact with said tools, the combination including a main supporting means, a plurality of oscillatable frame means holding each of said tool heads, finishing tools rotatably mounted on each of said tool heads, a plurality of shaft means mounted on said machine main supporting means and rotatably carrying each of said oscillatable frame means, a reciprocable link means adjustably connected to at least some of said frame means for oscillating the same, driving means connected to said link means for reciprocating the same, oscillatable link carrying arm means pivotally mounted on at least two of said shaft means, and connections between each of said arm means and said link means supporting said link, said oscillatable arm means being relatively rotatable relative to the shaft means upon which it is mounted for oscillating each tool relative to its work piece.

2,643,491
GRINDING MACHINE
Kenneth C. Burroughs, Plainville, Mass., assignor to Burroughs Optomat, Inc., New York, N. Y., a corporation of Massachusetts
Application December 5, 1950, Serial No. 199,335
12 Claims. (Cl. 51—131)



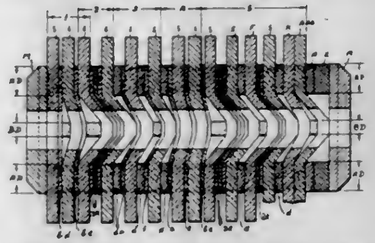
1. In a grinding machine having a frame, the combination including a pair of spindles for rotatably carrying the tool and work to be engaged thereby, supporting means on said frame for one of said spindles holding the axis thereof in a relatively fixed position, slideway means on said frame, spindle holding means for the other spindle carried on said slideway means, said holding means being adjustably movable longitudinally relative to said slideway means, and wedge means located between said slideway and said holding means for moving said holding means transversely relative to said slideway.

2,643,492
GRINDING MACHINE AND METHOD
Kenneth C. Burroughs, Plainville, Mass., assignor to Burroughs Optomat, Inc., New York, N. Y., a corporation of Massachusetts
Application December 5, 1950, Serial No. 199,336
15 Claims. (Cl. 51—131)



1. In a grinding machine for lenses or the like, the combination including a tool spindle and a work spindle rotatable on fixed axes, tool carrying means on said tool spindle and rotatable therewith on its axis, work carrying means on said work spindle rotating work on a fixed axis, the axes of said spindles being angularly disposed in the same plane so that the tool and work carried by said spindles will rotate about axes in the same plane, means moving said work spindle to a predetermined position with the work in contact with said tool, floating means urging said tool into contact with the work, and means moving said spindles toward each other for a predetermined time interval and maintaining said contact for said predetermined time only.

2,643,493
POLISHING AND BUFFING WHEEL
Harry Zimmerman, Toronto, Ontario, Canada
Application June 26, 1950, Serial No. 170,456
1 Claim. (Cl. 51—193)

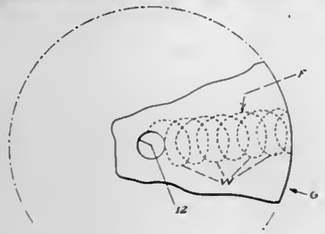


A buffing wheel comprising in combination a plurality of flexible buffing sections each having the general form of a centrally perforated normally flat circular plate, a pair of complemental flexible fabric carriers for confining between them a group of said buffing sections, each carrier having the general form of a centrally perforated normally flat disc and having a diameter substantially less than the said buffing sections, fabric wave forming elements mounted on each carrier and positioned so that the wave forming elements of one carrier register centrally in a circumferential direction between the wave forming elements of its complemental carrier, each wave forming element having the general form of a sector shaped flat member truncated towards the center of the carrier and being of the same predetermined thickness throughout, with means for pressing the buffing sections, the carriers and the wave forming elements mounted thereon together to form a buffing wheel having a wave formation on the periphery of the buffing wheel.

2,643,494
GRINDING WHEEL
John R. Erickson, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application August 25, 1952, Serial No. 306,111
6 Claims. (Cl. 51—206)

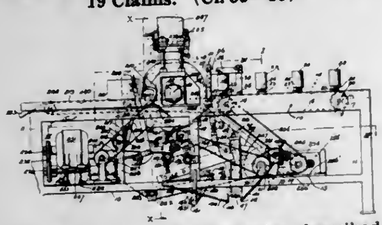
1. A grinding wheel comprising a relatively thin disc-like structure presenting a peripheral grinding face which is homogeneous throughout and which continues to be homogeneous as the grinding wheel wears down toward its center, said structure comprising many long glass fibers each of which is conformed into many connected or continuous whorls in lapped relation to each other and to the lapped whorls of other fibers, with the planes of the whorls of the many whorled fibers extending in many planes generally parallel to and between the opposed side faces of the disc-like structure, the radii of the whorls being materially less than the effective radius of the grinding wheel so that, along any

radius of the grinding wheel, there extend many lapped glass fiber whorls with the glass fibers of the radially-outermost whorls cut off and terminated at said peripheral face, abrasive grains substantially uniformly distributed throughout and amongst the multitudinous



spaces provided by and amongst the lapped whorls, and an organic bond in which said many lapped whorls and said abrasive grains are embedded, said peripheral grinding face presenting, as it wears down, substantially uniformly distributed elements that comprise abrasive grains, cross-sections of glass fibers, and bond.

2,643,495
APPARATUS FOR CUTTING AND IMPRESSING SUBSTANCES
Charles Doering, Henry H. Doering, and Bertil J. Skoglund, Chicago, Ill.; said Skoglund assignor to said Charles Doering and Henry H. Doering
Application May 13, 1948, Serial No. 26,906
19 Claims. (Cl. 53—55)



1. In a device of the character described for cutting and impressing articles, the combination with means for feeding the articles along a predetermined path, of a multi-straight sided drum for receiving the articles successively thereon, cutting and impressing means fixedly mounted to confront the successive straight sides of said drum in the latter's path of rotary movement, means for intermittently rotating said drum to present the articles under said cutting and impressing means, means for displacing said cutting and impressing means relative to said drum while the latter is at rest in confronting relation therewith, means for indexing said drum to successively locate the articles between said drum surfaces and said cutting and impressing means, and means for discharging the impressed articles from the predetermined path.

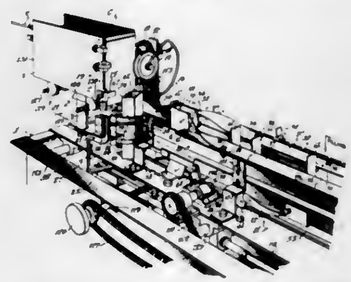
2,643,496
ENCLOSING ARTICLES IN TUBULAR WRAPPERS
William S. Cloud, Wilmette, Ill.
Application March 15, 1947, Serial No. 734,933
5 Claims. (Cl. 53—89)

1. Apparatus for cutting a tube into wrapper lengths and applying it to an adhesive conveyor including means for feeding the tube to a position adjacent to the adhesive surface of the conveyor, a rotating knife adapted to cut wrapper lengths from the tube, means for driving the knife with varying speed to have a higher speed at the time of cutting, a slapper biased to a position spaced from the conveyor with the tube passing



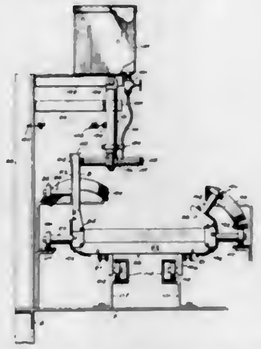
between them, and spring detent means adapted to engage the slapper to means rotating with the knife and effective approximately as the knife cuts the tube whereby the slapper will promptly slap the wrapper length against the adhesive surface of the conveyor, the spring detent permitting the knife to continue its rotation and the slapper to be returned by its biasing means.

2,643,497
CARTON OPENING, FILLING, AND CLOSING MECHANISM
Robert O. Woelfer, Rahway, N. J.
Application October 8, 1949, Serial No. 120,285
19 Claims. (Cl. 53—91)



1. Carton handling mechanism including, a holder for carrying a quantity of folded cartons with means for pressing them toward the discharge end of the holder, a receptacle positioned directly below the bottom plane of the holder at its discharge end, rotary means laterally displaced from the holder at its discharge end for moving one carton at a time from the holder, in a manner whereby the cartons will drop by their own weight into said receptacle, a longitudinal passageway, having entrance and exit ends as a filling position between said ends with means for moving the cartons along said passageway, means movable within said receptacle for opening up the cartons and moving them into the entrance end of said passageway, means near the beginning of the passageway for closing the lower ends of the cartons before they reach the filling position, means just beyond the filling position for closing the upper ends of the cartons after they are filled, a rotary structure positioned at the exit end of said passageway, means for moving the loaded cartons from said passageway exit end onto said rotary structure having means for applying pressure to the closed ends of the cartons for a predetermined length of time before discharging them.

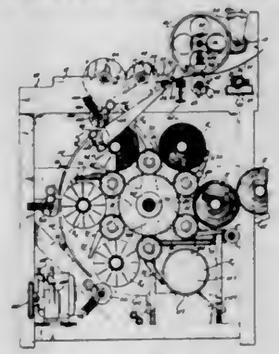
2,643,498
LABEL AFFIXING MACHINE
John J. Gregory, Baltimore, Md., assignor to Eastern Research Laboratories, Inc., Baltimore, Md.
Application February 27, 1951, Serial No. 212,878
3 Claims. (Cl. 53—98)



1. In a machine for affixing labels having glue on one of the respective ends thereof, comprising a horizontal frame, a pair of spaced parallel carrier chains operating horizontally through the frame, spaced lower cam bars mounted on opposite sides of the frame, disposed in parallel relation with each other longitudinally of the frame, the forward ends of said cam bars being curved downwardly and outwardly providing cam surfaces, cam bars disposed above the lower cam bars extending longitudinally of the frame, the forward ends of the latter cam bars being curved outwardly and downwardly providing cams at the forward ends of the last mentioned cam bars, a plurality of carriers secured on said carrier chains, tracks over which the carriers move, each carrier comprising a main section and end sections pivotally connected to the main section and on which labels and boxes are positioned for applying the labels to the boxes, rollers mounted on the pivoted sections and extending beyond the surfaces thereof, said rollers being movable over the cam ends and cam bars throughout the length of the cam bars successively folding the pivoted sections of the carriers over the main section folding labels held therein over boxes positioned on the labels within the carriers, and means for swinging the pivoted sections of the carriers to their open positions releasing the labelled boxes from the machine at one end of the machine.

2,643,499
WRAPPING MACHINE
Carl A. Gerlach, Spring Lake, Mich.
Application August 11, 1949, Serial No. 109,775
5 Claims. (Cl. 53—102)

1. A wrapping machine comprising a support structure defining a central open space, a driven shaft journalled in said structure and extending across said space, a cam operated drive mechanism for intermittently rotating said driven shaft, a carrier having spaced web members keyed to said shaft, each web member having a plurality of angularly spaced, radially extending arms aligned with the arms of the other web member, a drive shaft journalled between each pair of aligned arms, rollers keyed to each drive shaft, means for rotating the drive shaft to cause continuous rotation of said rollers, means supported on said structure for delivering a roll to said carrier, means for pressing said roll against said rollers during movement of said carrier, power means for actuating said intermittent drive mechanism to cause movement of said carrier successively through a plurality of stations including a wrapping station, a gluing station and an end-capping station, a cutter arranged to cut a sheet of wrapping paper to a predetermined length, a mechanism for applying glue to the under surface of the leading and trailing edges of the sheet, feed rolls for delivering a sheet of wrapping paper to said wrapping sta-

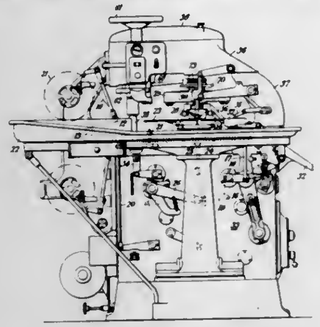


tion, a guide member for pressing said sheet against said roll to glue the leading edge of the sheet thereto, a second guide member contacting the edge of said wrapper sheet and pressing it against the end face of said roll and holding it thereagainst at two spaced points permitting buckling of the edge between the points to form a flap and pressing said flap down against the end face of the roll, a glue wheel on each side of said structure for applying glue to the end flaps of the wrapper, and means for cutting a circular cap member from a supply roll and pressing it against said glued end flap to seal the end of the wrapper.

2,643,500
WRAPPING MACHINE
Leonard Brook, Beeston, Leeds, England, assignor to The Forgrove Machinery Company Limited, Leeds, England, a company of Great Britain
Application April 21, 1952, Serial No. 283,334
In Great Britain April 18, 1951
5 Claims. (Cl. 53—126)

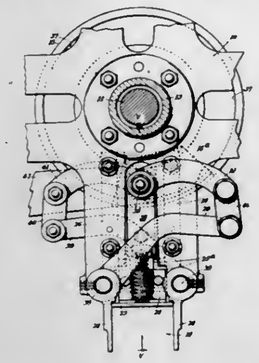
1. In a wrapping machine, comprising a carrier head mounted to rotate intermittently on a vertical axis, a plurality of pairs of grippers on said carrier head, means at a loading station for lifting in succession into said grippers, as they dwell at the loading station, an article to be wrapped and a wrapper draped around and depending from said article, and a folder at said loading station for folding part of the wrapper against the base of the article held by the grippers dwelling at said loading station, the combination with said carrier head and folder of a gear box disposed above the carrier head, a vertical tubular shaft depending from said gear box, said tubular shaft being connected to and constituting the sole support for the carrier head, mechanism in said gear box for imparting intermittent rotation to said tubular shaft, a spindle housed within said tubular shaft and connected

at its lower end to said folder, and means in the gear box for periodically oscillating said



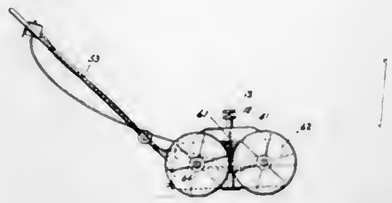
spindle to move the folder to and fro in relation to the grippers dwelling at the loading station.

2,643,501
WRAPPING MACHINE
Alexander Russell, Leeds, England, assignor to The Forgrove Machinery Company Limited, Leeds, England, a company of Great Britain
Application February 4, 1952, Serial No. 269,884
In Great Britain February 15, 1951
6 Claims. (Cl. 53—135)



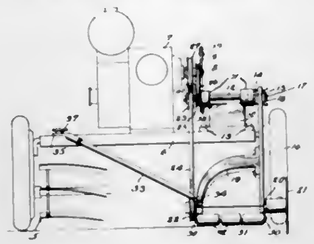
1. A machine for wrapping shaped blocks of plastic material, comprising a wrapping wheel disposed with its axis horizontal and having a number of pockets, each comprising a movable base plate and pivoted side jaws, means for imparting intermittent rotation to said wrapping wheel to bring said pockets in succession to a receiving station said pockets extending downwardly when at said receiving station, an intermittently operating lifting member for lifting into each of said pockets as it dwells at the receiving station a block of plastic material with a wrapper folded in U-formation about it, and mechanism, operating in timed relationship with the lifting member, for moving downwardly the base plate of the pocket at the receiving station and simultaneously opening the side jaws of said pocket preparatory to arrival of the block in the pocket and thereafter raising said base plate and gradually closing said side jaws on the block as the latter is lifted into the pocket.

2,643,502
POWER LAWN MOWER OF THE ROTATING CUTTING DISK TYPE
Clifford H. Flanigan, New Albany, Ind.
Application July 5, 1949, Serial No. 103,145
3 Claims. (Cl. 56—25.4)



1. A power mower having a vertical hollow motor drive shaft; a knife rod extending through the shaft and having a clamping plate at the end thereof; a perforate knife on said rod; a spacer on said rod engaging the knife and the lower end of the motor shaft, a spacer on the upper end of the motor shaft engaging a larger diameter on the shaft and having a nut engaging surface, and a clamping nut threaded on said rod and abutting said nut engaging surface.

2,643,503
DEMOUNTABLE EDGER ATTACHMENT FOR LAWN MOWERS
John D. Noyes, Fort Lauderdale, Fla.
Application February 27, 1951, Serial No. 212,873
2 Claims. (Cl. 56—25.4)



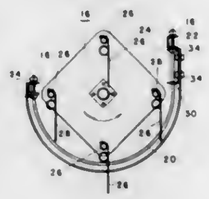
1. A lawn edging attachment for a power mower having a platform, comprising a stand mounted on said platform, spaced bearings on the stand, a power shaft removably mounted within the bearings, a circular line of teeth extending from one of said bearings, a vertically swinging supporting arm having an opening and a circular line of teeth surrounding the opening, the teeth of the arm cooperating with the teeth of said bearing in holding said arm in adjusted positions, a stub shaft extending from the bearing having teeth, the stub shaft being disposed in the opening of the supporting arm securing the supporting arm to the stand, a horizontally disposed shaft mounted adjacent to the free end of said supporting arm, an edging disc mounted on one end of the shaft supported on said arm operating in advance of the mower, and means for transmitting power from the power mower to the power shaft of the attachment and shaft on which said edging disc is mounted.

2,643,504
FENCE GUIDE FOR MOWERS
Lowell C. Woods, Greenfield, Ohio
Application February 16, 1951, Serial No. 211,278
2 Claims. (Cl. 56—307)



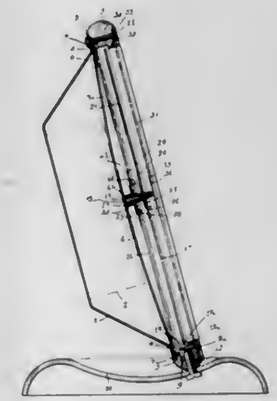
1. In a power mower consisting of a sickle bar and a plurality of longitudinally spaced guard prongs projecting forwardly from the sickle bar and including an end prong, a fence guide attachment for the mower comprising a rod member having a lower end portion secured to one end of said sickle bar adjacent said end prong, said rod member extending forwardly and inwardly beyond said end prong then reversely and outwardly from said end prong to a point substantially in a plane perpendicular to the bar and then terminating at a point overlying said bar.

2,643,505
CAGE FOR SIDE DELIVERY RAKES
Wesley A. Harper and Eugene S. Minton, Bellevue, Ohio, assignors, by mesne assignments, to Cockshutt Farm Equipment Incorporated, a corporation of Delaware
Application June 29, 1950, Serial No. 171,092
2 Claims. (Cl. 56—377)



1. In a side delivery rake; a reel cage comprising spaced front and rear frame members extending the length of the cage, a plurality of curved U-shaped stripper rods having their opposite ends extending through and secured to said frame members respectively, and a combination shield and supporting member comprising a channel shaped element having its legs apertured for receiving said stripper rods, and arranged with its upper leg abutting the underneath side of one of said front frame members with the rods extending through the apertures in said legs, nuts on the rods on the upper side of said last-named member and on the under side of said upper leg of said channel-shaped member for clamping the rods and said element rigidly to said front frame member, and said element having its web positioned in front of the stripper rods with the rods passing through the apertures in the lower leg.

2,643,506
CLOCK
Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France, assignor to Etablissements Ed. Jaeger, Levallois-Perret, Seine, France, a company
Application March 22, 1951, Serial No. 216,984
In France March 29, 1950
1 Claim. (Cl. 58—126)



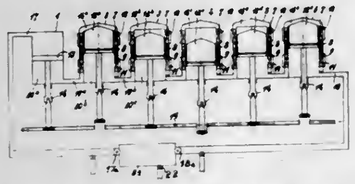
In a clock, in combination, a transparent front plate, an opaque black plate, a circular support having fixed thereto said plates and constituting the clock dial, a clockwork secured to the rear face of said opaque back plate and having a driving pivot passing through a central perforation in said back plate and extending into the interval between said plates, said plates and said support being set at an angle from the vertical, a sleeve fixed on said pivot, a cannon wheel mounted on said sleeve and having a shoulder cannon portion, one driving member formed with an eyelet inserted on and resting against said shoulder cannon portion, a pair of symmetrical driving pins formed integrally on said driving member, another driving member also formed with an eyelet inserted on said sleeve, a single driving pin formed integrally on said driving member and extending from the pivot axis by a shorter distance than said driving pins of said one driving member, a first transparent intermediate disc arranged between said plates, carrying the hour-index, formed with a central hole for allowing said cannon portion of said cannon wheel to pass freely therethrough and comprising a pair of off-centered perforations engaged by the driving pins of said one driving member, the outer edge of said first disc being guided by a bearing shoulder portion formed in said circular support and another intermediate transparent disc arranged between said plates, carrying the minute index, formed with a central hole for allowing said sleeve to pass freely therethrough and comprising an off-centered perforation engaged by said single driving pin of said other driving member, the outer edge of said other transparent disc being guided by another bearing shoulder portion formed in said circular support.

2,643,507

HOT-GAS RECIPROCATING ENGINE IN WHICH A PLURALITY OF CLOSED THERMODYNAMIC CYCLES ARE PERFORMED SIMULTANEOUSLY AND WHICH INCLUDES A COMPRESSOR MEANS

Albert August Dros, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 17, 1949, Serial No. 127,918
In the Netherlands December 30, 1948
3 Claims. (Cl. 60—24)



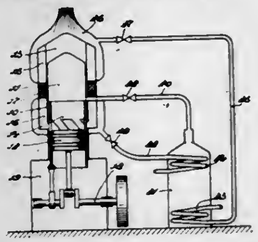
2. A hot-gas reciprocating engine in which a plurality of closed thermodynamic cycles are performed simultaneously, comprising a plurality of cylinders arranged in a straight line, a piston in each of said cylinders having two surfaces and dividing each of said cylinders into two spaces, the movement of each piston producing volume variation of each space, a space of one cylinder cooperating with a space of another cylinder in each thermodynamic cycle, the first and the last of said cylinders each only having one space in operative connection with a space of another cylinder, the other of said spaces in said first and last cylinders constituting a compression space in which one surface of the pistons therein acts as the compressing member, and the remaining cylinders having each of their two spaces in operative connection with a space of another cylinder.

2,643,508

HOT-GAS MOTOR WITH MEANS FOR REGULATING THE INDICATED POWER THEREOF

Pieter Hajo Clay, deceased, late of Eindhoven, Netherlands, by Jacob Clay, Tettje Clasina Clay-Jolles and Petronella van Osselen-Clay, joint heirs, all of Amsterdam, Netherlands; Joris Daniel Heijligers, administrator of said Pieter Hajo Clay, deceased, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application September 7, 1945, Serial No. 615,044
In the Netherlands August 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 13, 1963
5 Claims. (Cl. 60—24)



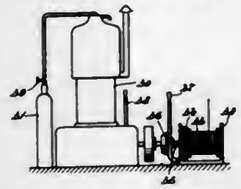
1. A hot-gas motor comprising a motor cylinder, a cooler operatively associated with said cylinder in heat exchange relationship therewith, a separate chamber, flue gas channel means operatively associated with said cylinder in heat exchange relationship therewith, heating means and cooling means within said chamber, means coupling said heating means to said channel means, means coupling said chamber cooling means to said cooler, and means coupling said chamber to said cylinder.

2,643,509

METHOD AND SYSTEM FOR BRAKING HOT-GAS PISTON ENGINES AND FOR UTILIZING HEAT GENERATED THEREBY IN OPERATION THEREOF

Willem Jan van Heeckeren, Eindhoven, Netherlands, and Pieter Hajo Clay, deceased, late of Eindhoven, Netherlands, by Joris Daniel Heijligers, administrator, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 19, 1946, Serial No. 691,614
In the Netherlands June 28, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 28, 1965
7 Claims. (Cl. 60—24)



1. A method of operating a hot-gas piston engine system that functions in a predetermined cyclic process during which heat is converted into energy comprising the steps of supplying heat to the hot-gas piston engine system, converting a substantial amount of said heat supplied to said hot-gas piston engine system into kinetic energy, braking said kinetic energy by causing said cyclic process to proceed in a direction opposite to said predetermined cyclic process, and introducing the heat thus formed into said hot-gas piston engine.

4. A hot-gas piston engine comprising a hot chamber, heater means therefor, a cold chamber, gas flow communicating means between said hot chamber and said cold chamber, and means in said gas flow communicating means for varying the resistance to gas flow therethrough.

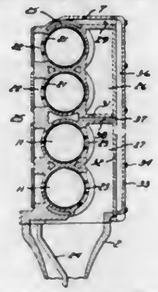
2,643,510

INTERNAL-COMBUSTION ENGINE

Elmer C. Kiekhaefer, Cedarburg, Wis.

Application September 23, 1949, Serial No. 117,326
3 Claims. (Cl. 60—32)

1. A two-cycle engine, comprising a crankshaft and a plurality of pistons connected thereto for reciprocation with rotation of the crankshaft, a cylinder block having a cylinder for each of said pistons and exhaust ports from each of said cylinders, said engine having a number of pistons and cylinders firing in consecutive order with rotation of said crankshaft and having the exhaust ports of each cylinder disposed to open for an exhaust period which coincides in part with the opening period of the ports of another cylinder, separate adjacent chambers formed in said block and each having the respective ports of a corresponding group of cylinders opening thereinto, said groups of cylinders having alternate exhaust periods and said block having separate adjacent discharge openings for each of said chambers and opening in the same direction, and an exhaust conduit disposed and connected to said block to receive and conduct



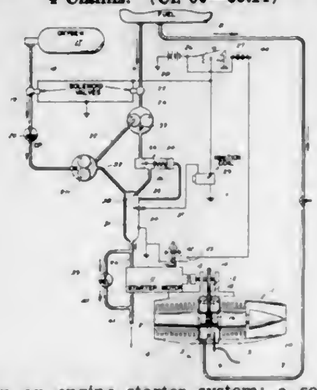
parallel contiguous streams of the alternate discharges of exhaust gases from said chambers whereby the higher velocity exhaust discharge from one chamber effects an evacuation of the other chamber of exhaust gases remaining therein.

2,643,511

ENGINE STARTER HAVING COMBUSTION CHAMBER SUPPLIED WITH FUEL AND COMBUSTION SUPPORTING MEDIUM FOR CONSTANT RATIO BY WEIGHT

Arthur T. Briggs, South Williamsport, Pa., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware

Application October 7, 1949, Serial No. 120,101
4 Claims. (Cl. 60—39.14)



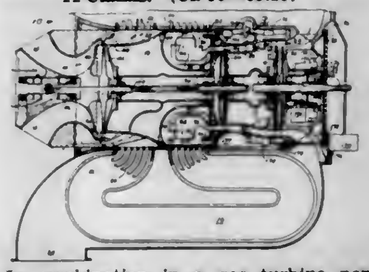
1. In an engine starter system; a source of oxygen under pressure; a source of liquid fuel; normally closed electrically actuated valves to permit a flow of oxygen and fuel upon simultaneous energization; a pressure reducing valve supplied with oxygen under pressure upon energization of said valves; a constant displacement rotary oxygen actuated motor supplied with oxygen at constant pressure by said reducing valve; a constant displacement gear pump driven by said rotary oxygen actuated motor for compressing fuel supplied thereto upon the energization of said valves; a connection between said motor and said gear pump to insure corresponding rotational speeds thereof; a combustion chamber, said combustion chamber being connected with said rotary motor and gear pump whereby it is supplied with fuel and oxygen in a ratio determined by the volumetric capacity of said motor and pump; flow regulating means responsive to the pressure within said combustion chamber for regulating the flow of fuel supplied thereto; ignition means for initiating combustion within said combustion chamber; a starter motor driven by combustion products from said combustion chamber; and means for energizing said electrically actuated valves.

2,643,512

GAS TURBINE POWER PLANT WITH CONTROLLED RATE OF ROTATION

Edward A. Stalker, Bay City, Mich.

Application April 30, 1948, Serial No. 24,234
11 Claims. (Cl. 60—39.16)



4. In combination in a gas turbine powerplant, a compressor, a gas turbine having a compressor driving rotor and an independent power output rotor, said compressor being operably connected to said compressor driving rotor to be driven thereby, means connecting said compressor to said turbine to supply compressed air thereto, controllable heater means to vary the quantity of heat added to said air en route to said turbine, said turbine being adapted to direct said heated air through said rotors in succession, a governor for each said rotor operably connected thereto, each said governor being responsive to a change in the rate of rotation of its respective rotor, said governor for said compressor rotor having a device for setting the balance rate of rotation of said compressor governor, connecting means operably connecting said governor of said compressor driving rotor to said heater means to vary the temperature of said air, and other connecting means operably connecting said other rotor governor to said device of said compressor driving rotor governor to alter the balance speed of said compressor driving rotor governor in response to a change in the speed of said power output rotor.

2,643,513

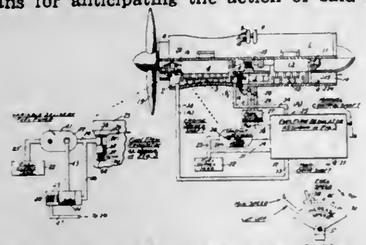
INTERNAL-COMBUSTION ENGINE FUEL AND SPEED CONTROL

Leighton Lee II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application April 8, 1949, Serial No. 86,356
30 Claims. (Cl. 60—39.28)

1. A fuel and speed control apparatus for an internal combustion engine comprising: an engine driven, constant displacement fuel pump for supplying fuel to said engine, a by-pass relief valve for varying the delivery of said pump, and means, responsive to engine speed and rate of air flow through the engine, acting on said valve for automatically regulating the flow of fuel from said pump to said engine in accordance with predetermined operating requirements of the engine; said means including a centrifugal speed governor and means actuated by rotating inertia element for anticipating the action of said governor.

28. In a fuel and speed control apparatus for an internal combustion engine, a centrifugal, all speed governor driven by the engine and comprising: means for varying the flow of fuel to the engine in accordance with engine speed and means for anticipating the action of said governor comprising a fluid pressure regulating valve rotated in constant speed relation to said governor and a rotating inertia element elastically connected to and driven by said valve and adapted to vary the opening of said valve in either direction in proportion to the rate of change in the speed of rotation of said valve.

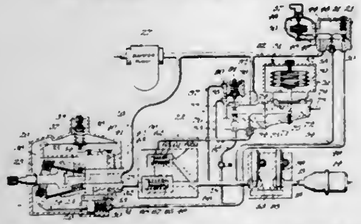


2,643,514

FUEL SYSTEM FOR GAS-TURBINE ENGINES WITH MEANS TO MAINTAIN THE FUEL SUPPLY WITHIN DESIRED LIMITS DURING TRANSIENT OPERATING CONDITIONS

Albert Jubb, Buttershaw, Bradford, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application August 12, 1949, Serial No. 109,842
In Great Britain August 23, 1948
26 Claims. (Cl. 60—39.28)



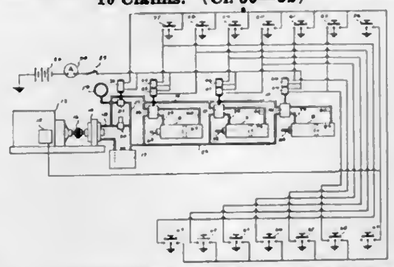
1. For a gas-turbine engine including a compressor, combustion equipment arranged to receive air under pressure from said compressor, a fuel system to deliver fuel to said combustion equipment, and a turbine arranged to receive products of combustion from the combustion equipment and connected to said compressor to drive it; an arrangement of said fuel system which comprises a fuel pump, fuel injectors connected to receive fuel from said fuel pump by conduit means including a pipe line arranged to convey the entire flow of fuel received by said fuel injectors, basic control means including fuel-flow-selecting means to control the fuel flow in said pipe line, and acceleration control means which comprise fuel-flow-restricting means located in said pipe line and having a substantially linear fuel flow/pressure drop characteristic, means to adjust the fuel flow to the fuel injectors, first pressure-responsive means arranged to be subjected to the delivery pressure of the compressor and connected to load said means to adjust the fuel flow to increase the fuel flow on increase of said delivery pressure, and second pressure-responsive means arranged to be subjected to the difference in the fuel pressures in said pipe line on each side of said fuel-flow-restricting means, whereby the second pressure-responsive means is subjected to a load directly proportional to the fuel flow of the fuel injectors, said second pressure-responsive means being connected to load said means to adjust the full flow to reduce the fuel flow on increase in said difference of fuel pressures.

2,643,515

ELECTRIC CONTROL SYSTEM FOR EXPANSIBLE MOTOR OPERATED BOOM

Chester A. Harsch, Portland, Oreg.

Application October 17, 1950, Serial No. 190,480
10 Claims. (Cl. 60—52)



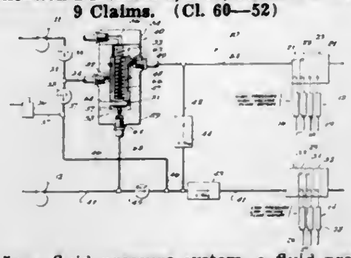
1. In combination with a portable hydraulic element having telescoping extensible sections, a first expansible hydraulic motor means carried within said element selectively to extend and retract the telescopic sections thereof, second and third expansible hydraulic motor means joined operatively to said element to actuate the same in rotation and in up and down movements, respectively, a hydraulic system including a plurality of electrically actuated control valve means, one of said valve means being connected hydraulically with each motor and being movable to open and closed positions, selectively, to control the movements of the corresponding motor, a pump means for supplying a constant volume of fluid to said hydraulic system, said hydraulic system also including an electrically actuated by-pass valve means for diverting said constant volume from or passing said volume to said plurality of control valve means, selectively, and an electric control circuit means including a series of switches joined, in common, to said electrically actuated by-pass valve and joined to mated ones of said electrically actuated control valves for actuating the by-pass valve when any one of the control valves is actuated whereby the former passes said constant volume only when any one of said control valves is actuated.

2,643,516

FLUID PRESSURE SYSTEM

Melvin G. Carlson, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application December 8, 1951, Serial No. 260,740
9 Claims. (Cl. 60—52)



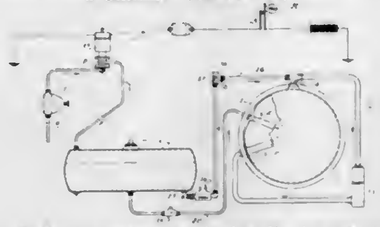
7. In a fluid pressure system, a fluid pressure motor operable at relatively high volume, a fluid pressure motor operable at relatively low volume, a first and second pump for supplying pressure fluid to said motors, the second of said pumps having flow regulating means connected in the output thereof for apportioning said output between said fluid motors, and valve means operable upon the failure of the said second pump to cause the first pump to apportion its output between said fluid motors.

2,643,517

FLUID SYSTEM FOR HYDRAULIC TORQUE CONVERTERS

William P. Michell, Toledo, Ohio, assignor to Dana Corporation, Toledo, Ohio, a corporation of Virginia

Application January 19, 1949, Serial No. 71,717
2 Claims. (Cl. 60—54)



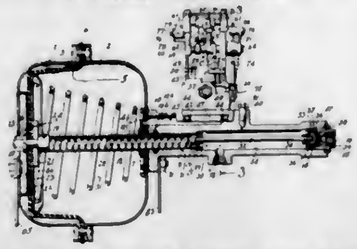
1. A fluid system for hydraulic torque converters which comprise a stationary circular casing enclosing the axially alined pump wheel and turbine of the torque converter, the casing having an inlet for the hydraulic fluid communicating with the axial portion of the casing and an outlet leading from the peripheral portion of the casing, the system being characterized by a closed supply tank for hydraulic fluid, a source of pressure air, pressure regulating means to maintain the fluid in said tank under constant predetermined and uniform air pressure less than the pressure of said fluid generated within the peripheral portion of the casing, the tank having an outlet from the bottom thereof to the inlet of the converter and a return pipe from the outlet of the converter to the bottom of the tank to supply fluid from said tank to said converter and return fluid to said tank at points below the level of the fluid in said tank.

2,643,518

VEHICLE BRAKE CONTROL APPARATUS

Walter H. Righter, Glendale, Calif.

Application August 13, 1949, Serial No. 110,185
15 Claims. (Cl. 60—54.5)



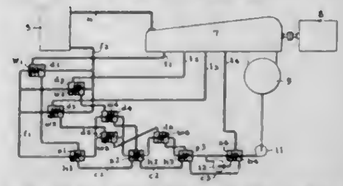
1. A vacuum operated vehicle brake actuating apparatus comprising a vacuum cylinder having a reciprocable piston and piston rod; a hydraulic cylinder mounted on said vacuum cylinder and disposed in co-axial relation thereto; said piston rod serving as the piston for said hydraulic cylinder, and pedal controlled devices constructed and arranged to control the action of said vacuum cylinder and including a second vacuum responsive piston directly connected to the controlling pedal and effective to produce a reaction on said controlling pedal which is indicative of the magnitude of a braking effort.

2,643,519

REGENERATIVE STEAM POWER PLANT IN WHICH AN EXTRACTION TURBINE SUPPLIES STEAM TO DESUPERHEATERS WHICH SERVE TO HEAT FEED WATER

Richard C. Powell, Oakland, Calif.

Application March 2, 1949, Serial No. 79,259
5 Claims. (Cl. 60—67)



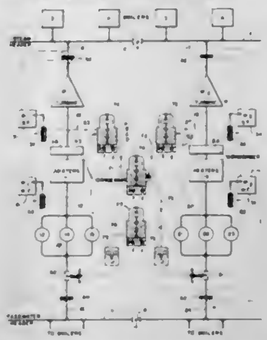
1. In a regenerative steam power plant of the type in which superheated steam from a generator is expanded through an extraction turbine, means for heating the feed water, comprising in combination a plurality of desuperheaters, each having a water path and a steam path; a plurality of saturated steam heat exchangers, each having a steam path and a water path; a plurality of connecting means from respective extraction stages of said turbine affording steam paths, each including the steam path of a desuperheater and the steam path of a heat exchanger connected in series; and means connecting the water paths of said desuperheaters and said heat exchangers in such order that the feed water passes through said desuperheaters after passing through said heat exchangers.

2,643,520

FEED-WATER CONTROL SYSTEM FOR STEAM POWER PLANTS

William Powell, Jr., Llanerch, Pa., assignor to Bailey Meter Company, a corporation of Delaware

Application January 6, 1949, Serial No. 69,529
8 Claims. (Cl. 60—107)



1. The method of operating the turbine cycles of a steam-electric generating station having a plurality of steam generators discharging to a

common header, a pair of steam turbines taking steam from said header, a feed water header feeding all of said boilers and receiving water principally as condensate from the turbines, which includes, separately measuring the rate of supply of steam to each turbine, separately measuring the rate of discharge of water from each turbine cycle to the water header, normally continuously controlling the rate of flow of water from each cycle to maintain a predetermined ratio between the measurements of steam and water for that cycle, and continuously readjusting the rate of discharge of water from both of the cycles to maintain a predetermined ratio between the steam and water ratios of each cycle.

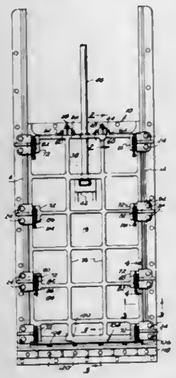
2. Apparatus adapted to control the operation of a steam-electric generating station having a steam header supplied by steam generating boilers, a pair of steam turbines taking steam from said header, a feed water header supplying all of said boilers and receiving water principally as condensate from the turbines, including in combination, a device for each turbine establishing a fluid pressure representative of steam flow rate thereto, a device for each turbine establishing a fluid pressure representative of water flow rate therefrom, and separate control means for each turbine regulating the rate of water from that turbine to the water header, said separate control means positioned conjointly by the fluid pressures established as representative of the steam flow rate and water flow rate for that turbine.

2,643,521

SLUICE GATE SEAL

Robert L. Hatch, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a corporation of Massachusetts

Application September 6, 1951, Serial No. 245,371
10 Claims. (Cl. 61—28)



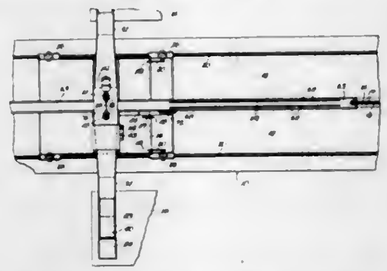
1. In a sluice gate, a frame having an opening for the passage of a fluid, a gate slidably mounted on said frame for movement between open and closed positions, means forming a fixed horizontal surface adjacent the lower edge of said opening, a resilient sealing member attached to the lower edge of said gate and adapted to be compressed into sealing engagement with said horizontal surface when said gate occupies its closed position, and cooperating means on said gate and said frame for varying the location of said closed position of said gate to vary the sealing pressure on said resilient sealing member.

2,643,522

ICING MACHINE

Harold O. McLain, Highland Park, Ill.

Application February 1, 1950, Serial No. 141,790
20 Claims. (Cl. 62—1)



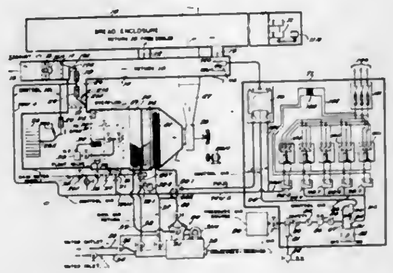
1. A refrigerator car icing machine comprising a portable main frame movable on tracks between oppositely disposed trains of refrigerator cars to be iced, two oppositely disposed ice block transferring means carried by said main frame, an ice breaking and crushing unit carried by said frame, and a laterally disposed distributing means carried by said frame for discharging the crushed ice from the ice breaking and crushing unit laterally of said machine to the bunkers of the refrigerator cars on the opposite sides of said machine.

2,643,523

BREAD COOLING AND CONDITIONING SYSTEM

Russell H. Burgess, Chicago, Ill., assignor to Drying Systems, Inc., Chicago, Ill., a corporation of Illinois

Application June 22, 1950, Serial No. 169,651
2 Claims. (Cl. 62—3)



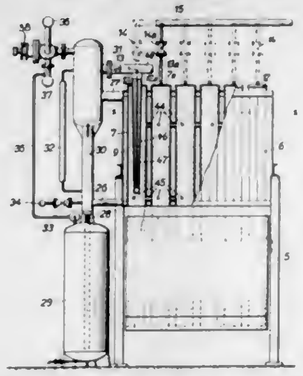
1. In a bread cooling and conditioning system, a bread enclosure in which freshly baked hot bread is adapted to be positioned for a predetermined period, an air conditioning system including a return duct through which air may be withdrawn from said enclosure, a treating unit to which such air may be fed from said return duct, and a discharge duct from said unit including a blower and arranged to discharge treated air back into said enclosure, air washing means in said unit, a cooling radiator and a heating radiator in said unit, means including valved supply lines for supplying cooling and heating media to said cooling and heating radiators respectively, a normally open blocking damper in said return duct for blocking air flow from said return duct to said unit, an exhaust duct from said return duct between said bread enclosure and said blocking damper and including a normally closed exhaust damper and an exhaust fan, a fresh air inlet between said blocking damper and said unit and including a normally closed fresh air damper, sensing means disposed in said return duct for sensing the condition of the air withdrawn from said enclosure, control means operably associated with said sensing means, and power operated devices governed by said control means and effective to adjust said dampers, start and stop said exhaust fan, and control said valved lines in accordance with the sensed condition of the air withdrawn from said enclosure.

2,643,524

FREEZING PLANT

Eugen Wilbushewich, Haifa, Israel

Application June 8, 1951, Serial No. 230,634
In Israel May 30, 1950
6 Claims. (Cl. 62—3)



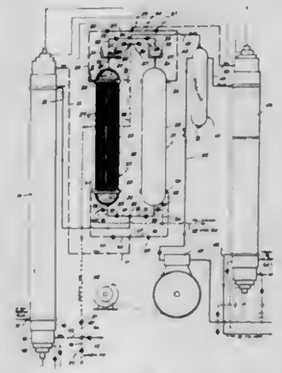
1. In a freezing plant adapted for operation by means of a refrigerating machine including a compressor and a condenser for a liquefiable normally gaseous refrigerant, the combination of a receptacle adapted to receive the refrigerant and to serve as an evaporator therefor during the freezing operation; at least one upright freezing mould within the receptacle and projecting downwards from the latter; a discharge flap hinged to the bottom part of the mould and adapted to be swung downwards, and means adapted to normally keep the flap up against the mould for sealing the bottom end of the latter; a refrigerant separator including a top space connected to the top part of the receptacle, and a bottom space connected to the bottom part of the receptacle; a collector vessel beneath the separator and connected to the bottom space of the latter by a conduit descending within the collector to the bottom part thereof; a conduit including a valve connecting the condenser with the bottom part of the separator for the supply to the latter of fresh liquefied refrigerant; and a four-way valve connected to the suction side of the compressor, to the delivery side of the compressor, to the top space of the separator and to the top part of the collector, for alternately establishing communication between the top part of the receptacle with the suction side of the compressor, or between the delivery side of the compressor with the top part of the receptacle and at the same time with the top part of the collector.

2,643,525

ABSORBER FOR USE IN TREATING GASES

Lionel R. Cartier, O'Fallon, Ill.; Effie Mae Cartier and Norman J. Gundlach, executors of said Lionel R. Cartier, deceased, assignors to Independent Engineering Company, Inc., O'Fallon, Ill., a corporation of Illinois

Application May 15, 1947, Serial No. 748,269
1 Claim. (Cl. 62—175.5)



A method of removing hydrocarbons, and the like, from air in two containers comprising passing air under pressure through a heat exchanger, directing the air through an absorber in one container, and cutting it off from the other, passing the air from said one container and separating oxygen from nitrogen therein by temperature fractionation, obtaining cold nitrogen from said fractionation, directing the nitrogen through the air-receiving container in separated heat-transfer relationship therewith, while cutting it off from the other container, passing it from the other container through the heat exchanger to precool air therein and to warm the nitrogen, passing the warmed nitrogen from the heat exchanger through the container cut off from the air to take up hydrocarbons in the absorber therein, and changing the flow of the air, cold nitrogen and warm nitrogen to the opposite containers when the absorber in that one receiving air has become charged with hydrocarbons.

2,643,526

PRODUCTION OF ICE-CREAM BLOCKS

Reginald Turner, Horsforth, near Leeds, England

Application January 14, 1948, Serial No. 2,346
In Great Britain January 14, 1947
7 Claims. (Cl. 62—114)



1. A method of producing ice cream blocks comprising in sequence the steps of continuously extruding at least one continuous strip of ice cream which is sufficiently firm to retain its shape but not sufficiently hard to withstand handling on to a continuously moving flat supporting surface; hardening the strip and freezing the same on to said supporting surface by continuously moving said strip together with said supporting

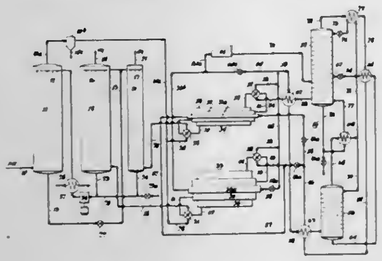
surface through a freezing chamber and exposing said strip therein on all sides excepting the side in contact with the supporting surface to contact with cold air, continuously breaking the resulting bond between the strip and the supporting surface, continuously delivering the separated strip to a cutting zone and therein severing the strip into successive blocks and imparting to the severed blocks an accelerated motion with respect to the rate of motion of the strip, and delivering the severed blocks in spaced relation on to a conveyor.

2,643,527

PRECOOLING AIR IN OXYGEN PRODUCTION

Percival C. Keith, Peapack, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application March 26, 1948, Serial No. 17,214
7 Claims. (Cl. 62—175.5)



1. A process of producing oxygen by the liquefaction and rectification of air, which comprises, step (1), passing a stream of air under pressure of from about 60 to 100 pounds per square inch gauge and at a temperature of from 70° to 110° F. upwardly through a downwardly flowing stream of brine entering at a temperature of from 20° to —10° F., thereby cooling the air to a temperature below the freezing point of water and removing moisture and condensibles contained therein and simultaneously warming said brine; step (2), passing the thus cooled air in indirect heat exchange relation with oxygen and nitrogen rectification products, thereby cooling the air to a temperature near its liquefaction point; step (3), periodically reversing the flow of air and oxygen and of air and nitrogen through their respective paths of flow; step (4), introducing the thus cooled air into the rectification system and rectifying same to produce the said oxygen and nitrogen rectification products; step (5), passing the said oxygen and nitrogen rectification products from step (2) up through downwardly flowing streams of warm brine from step (1), thereby cooling the said brine; and step (6), refrigerating the brine to said temperature of from 20° to —10° F. and recycling the thus refrigerated brine through step (1).

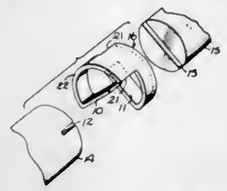
2,643,528

UNIVERSAL COUPLING

Robert W. Hammarbach, Fostoria, Ohio

Application March 13, 1946, Serial No. 654,113
7 Claims. (Cl. 64—15)

1. A universal torque transmitting coupling comprising an elongated strip of sheet material having end portions of substantial width offset oppositely from the intermediate portion, said intermediate portion being bent through an arc of approximately two hundred seventy degrees and said end portions being bent inwardly so as



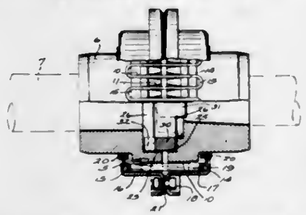
to lie crosswise of each other at right angles and in edge to edge relation.

2,643,529

POWER TRANSMISSION COUPLING

Richard J. Thomas, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application November 27, 1948, Serial No. 62,311
5 Claims. (Cl. 64—15)



5. In a power transmission coupling, the combination of a driving coupling member and a driven coupling member, each one of the coupling members having a central cavity therein open to the corresponding cavity in the other member and each one of the members having a pair of diametrically disposed recesses from the cavity therein, the pair of recesses in one of the members being disposed substantially at right angles to the recesses in the other member upon assembly of the coupling, a plurality of resilient elements engaged with both of the coupling members for providing an angularly flexible and torsionally resilient torque transmitting connection therebetween, and a member loosely disposed in the cavities and having lugs each projecting loosely into one of the recesses and coacting with the walls thereof to limit the torsional yield of the resilient elements without impairing the angular flexibility thereof.

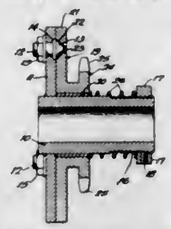
2,643,530

SAFETY DRIVE CLUTCH

Harry D. Lathrop, Chicago, Ill., assignor to The Lathrop-Paulson Company, Chicago, Ill., a corporation of Illinois

Application December 21, 1950, Serial No. 202,008
3 Claims. (Cl. 64—29)

1. In a safety drive clutch, a shaft, a clutch plate fixed thereon at one end and a collar secured to the shaft in spaced relation to said plate, a sleeve having at one end thereof a clutch plate and at the other end an outwardly-extending sprocket disc, said plates having their adjacent faces provided with interlocking studs and recesses having complementary-inclined walls, and a compression spring between said collar and said sprocket disc for urging said studs into engagement with said recesses, said studs having frustroconical heads with flat outer surfaces said sprocket disc being of considerably smaller diam-



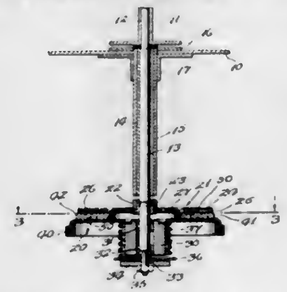
eter than said second-mentioned clutch plate and being closely spaced thereto, whereby said second-mentioned clutch plate serves as a guard for said sprocket disc.

2,643,531

SLIPPING CLUTCH

Nathan M. Haynes, New York, N. Y.

Application September 1, 1950, Serial No. 182,809
5 Claims. (Cl. 64—30)



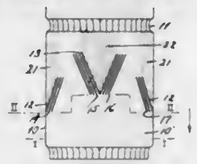
1. A slipping clutch comprising a driven clutch plate, a driving clutch plate for engagement therewith, a planar compressible felt pad on the drive surface of one of said plates and adapted to effect a slipping engagement with the other clutch plate, said compressible felt pad having a series of transverse openings formed therethrough and adapted to receive and contain a powdered lubricant.

2,643,532

METHOD OF PRODUCING FULL-FASHIONED KNITTED ARTICLES

John G. Sandri, Scarsdale, N. Y., assignor to Dubied Machinery Company, New York, N. Y.

Application September 17, 1948, Serial No. 49,668
6 Claims. (Cl. 66—69)



1. A method of manufacturing a fashioned knitted piece such as a pullover comprising the steps of knitting groups of oblique wales serving to define the neck portion of the pullover, of knitting usual plain stitches on one side of each group of oblique wales, of knitting wide stitches alternating with sinker stitches on the other side of each group of oblique wales and of cutting off the said wide stitches and said sinker stitches before finishing said pullover.

2,643,533

PATTERN MECHANISM

Eugene St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application October 25, 1949, Serial No. 123,318
1 Claim. (Cl. 66—154)



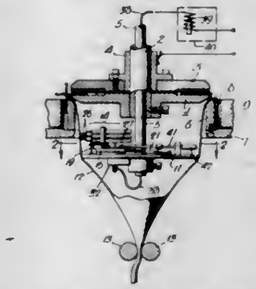
In a circular, independent needle, knitting machine, the combination of a pattern drum adapted to be turned in substantially equal steps, means for turning said drum one step at a time, a plurality of radially extending removable butts mounted around the outer perimeter of said drum, adjacent ones of said butts being arranged in pairs with substantially equal spacing between pairs and each pair occupying on the outer perimeter of said drum an arc substantially equal to the angular distance turned by said drum in one of said steps, each of said butts being frangible from said drum, and a lever so pivoted that a component of its motion is opposed to the direction in which said drum is turnable, said lever being adapted to be operated by said butts.

2,643,534

HOLE DETECTOR FOR CIRCULAR KNITTING MACHINES OF THE RIB TYPE

Michael Antonevich, New Brunswick, N. J., assignor to The Crawford Manufacturing Company, Inc., New Brunswick, N. J., a corporation of New Jersey

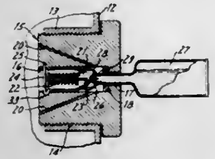
Application May 26, 1952, Serial No. 289,974
1 Claim. (Cl. 66—166)



In a circular knitting machine of the type having a needle cylinder, a dial plate at one end of said cylinder, and needles on said cylinder and plate coactive with each other to form the tubular web, a hollow post supporting said dial plate and affording a passage through the latter, a hole detector assembly positioned at one side of the dial plate in the area embraced by said tubular knitted web, said detector assembly including a carriage movable between advanced and retracted

positions relative to the inner surface of the tubular web, a carriage-retracting spring, releasable means for holding the carriage in the advanced position against the action of said spring, means for automatically engaging the holding means to render it operative when the carriage is moved to the advanced position, a hole detector element mounted on the carriage, resilient means operative only when the carriage is in the advanced position to hold the said element in contact with the inner surface of the web, means responsive to engagement of said element in a hole in said web for releasing said holding means to permit the carriage to move to the retracted position, an electric switch, and means for operatively connecting the switch with the carriage so that retraction of the latter is accompanied by an actuation of the switch, electrically actuated means located externally of the tubular web for interrupting the knitting operation, an electric conductor operatively connecting the said interrupting means with the switch, a hollow shaft extending through said post and constituting a support for the said assembly and a conduit for the said conductor, and a resetting member attached to the carriage and accessible through the web by inward displacement of the latter to move the carriage manually to the advanced position.

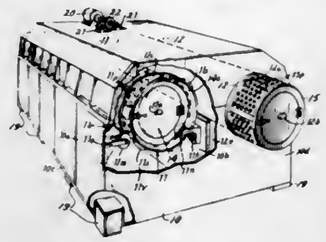
2,643,535
CIGARETTE LIGHTER
William P. Strumbos, Detroit, Mich.
Application December 28, 1948, Serial No. 67,620
1 Claim. (Cl. 67—7.1)



In combination with a cigarette lighter having a threaded aperture for admission of fuel, a cylindrical closure threaded on the outside to fit into said aperture, the closure being provided with an axial aperture therein, a bore of restricted diameter leading from said aperture outwardly, and a plurality of air passages leading from the portion of the axial aperture adjoining said bore of restricted diameter and terminating flush with the surface of said closure disposable within said cigarette lighter, a resilient washer having a central opening and seated at the junction of the aperture and the bore, a ball-shaped member bearing against said washer from inside to normally close the passage between the bore and the aperture, and a coiled spring within the aperture bearing against the ball to keep it in a normally-closed position, the ball being provided with a cylindrical stub to fit axially into the coils of the spring and having at the opposite end a piercing spear projecting into said bore.

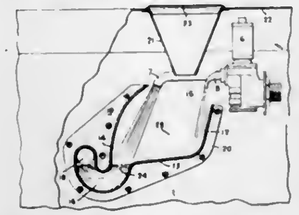
2,643,536
BALANCING DEVICE FOR WASHING MACHINES
Milton L. Neher, Coral Gables, Fla.
Application January 6, 1949, Serial No. 69,461
3 Claims. (Cl. 68—10)

1. A laundry machine comprising a bearing structure, a pair of generally cylindrical multisection open ended and hollow rotors supported upon said structure to revolve upon parallel horizontal axes, clothes carrying cylinders freely carried in the rotor sections, said rotor sections comprising means to rotate said clothes carrying cylinders therein and to guide same between pre-



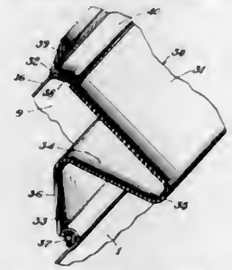
determined stations of operation along the axes of said multisection rotors, power means to rotate certain of said rotor sections in opposite directions and at equal speeds, and resilient means supporting said bearing structure to counteract off center clothes loads in the cylinders in said oppositely driven rotor sections.

2,643,537
COMBINATION WATER INLET AND SOAP DISPENSER FOR WASHING MACHINES
Thomas T. Woodson, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application September 1, 1949, Serial No. 113,614
4 Claims. (Cl. 68—17)



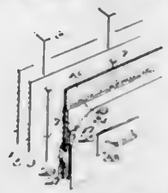
1. In a clothes washing machine, the combination of a receptacle having water inlet means, means providing a combined soap container and water conduit fixed relative to the receptacle through which the same may be filled to a predetermined level, said soap container and water conduit providing means including a chamber of relatively large floor area and depth and a U-trap communicating between said chamber and a discharge means registering with said inlet means, means accessible externally of said washing machine to receive soap powder or the like and deposit the same within said chamber remote from the entrance to said trap; means including a pair of spouts for discharging water into said chamber for passage through said trap into the receptacle, one of said spouts reaching over the pile of deposited soap powder and adapted to discharge water substantially directly into said trap with minimum pickup of soap powder and the second spout adapted to discharge water into said soap pile to create a turbulent mixture of soap and water for passage into said receptacle, and independently operable shutoff valves for said spouts.

2,643,538
WASHING MACHINE PROVIDED WITH RESILIENT VIBRATION CONTROL DOOR SEALING MEANS
William C. Bruckman, Bergenfield, Morton A. Kreitchman, Irvington, and Walter J. Olson, Bloomfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application June 10, 1948, Serial No. 32,116
2 Claims. (Cl. 68—24)



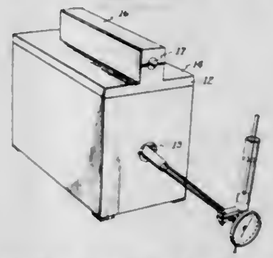
1. In a washing machine having a casing with a door opening therein, a tub in said casing having an opening spaced from said door opening, the opening in said tub being of greater diameter than said door opening and in substantial registry therewith, a laundry container in said tub, means to rotate said container at washing and fluid extraction speeds, the rotation of which tends to impart in said tub a vibratory movement relative to said casing; the improvement comprising a tubular member disposed between the openings of said casing and tub, said member having a cylindrical section extending from said door opening into said tub opening substantially parallel to the axis of rotation of said container and marginally inwardly of said tub opening, means to retain one end of said cylindrical section in fluid sealing engagement with the rim of said door opening, one end of said cylindrical section having an extension engageable by the door to seal the opening when the door is in closed position, the opposite end of said cylindrical section being reversed backwardly to extend a substantial distance and at an angle of more than 90° into a laterally flared second section, to lead into a third integral section reversed from said second section, means bondingly engaging the end of said third section to the rim of the said tub opening, said tubular member being of flexible material for minimization of vibratory forces through said member from said tub to said casing.

2,643,539
ARTIFICIAL STONE WALL FACING
Frank Bouch, Shippenville, Pa.
Application July 15, 1948, Serial No. 38,879
1 Claim. (Cl. 72—28)



A cementitious artificial stone wall facing and a supporting structure therefor including sheeting sections, spaced furring strips secured to said sheeting sections in substantially vertically disposed positions, foraminous reinforcing members mounted on said furring strips spaced from said sheeting sections providing air chambers between the sheeting sections and the foraminous reinforcing members, and said furring strips having air flow openings therein permitting flow of air between adjacent air chambers, said facing including a base coat and a second coat, said base coat bonded to the foraminous reinforcing members and having openings therein for receiving portions of the second coat and having ventilating apertures therethrough and said second coat bonded to the first coat and bonded to the foraminous reinforcing members by the portions thereof extending into the foraminous reinforcing members through the openings in the first coat and the second coat having ventilating apertures therein aligned with the first mentioned ventilating apertures whereby air may enter and be exhausted from the air chambers.

2,643,540
ANTIFREEZE TESTER
Robert B. Rudy, Washington, D. C., assignor to the United States of America as represented by the Secretary of Commerce
Application February 25, 1952, Serial No. 273,320
2 Claims. (Cl. 73—17)
(Granted under Title 35, U. S. Code (1952), sec. 266)

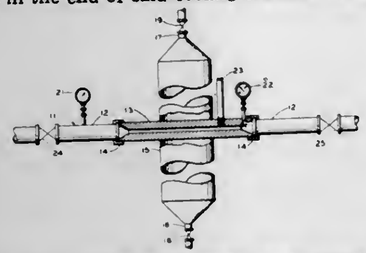


1. A device for determining the practical freezing point of a solution comprising a cylinder, there being a U-shaped passage in said cylinder for receiving said solution, said passage being comparable in size to the passages in the cooling system of an automobile, a reservoir containing said solution and connected to one end of said U-shaped passage, a valve in said reservoir for controlling flow to said U-shaped passage, an outlet pipe connected to the other end of said U-shaped passage, there being a second passage in said cylinder located between and in close proximity to the two legs of said U-shaped passage, a thermometer with its temperature-responsive element located in said second passage, means for freezing the solution in said U-shaped passage and means for thawing said solution once it has been frozen.

2,643,541
MEANS AND METHOD FOR MEASURING AND CONTROLLING HYDRATE FORMING CONDITIONS
Elmer J. McCreary, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 19, 1949, Serial No. 133,811
8 Claims. (Cl. 73—25)

1. A hydrate formation testing device which comprises in combination a gas flow line; a gas

pressure reduction tube of between 3/32 inch and 1/4 inch inner diameter positioned intermediate the ends of said flow line and adapted to convey a gas stream from one portion of said flow line to another; a cooling chamber enclosing at least a portion of said gas pressure reduction tube; a cooling material inlet conduit in one end of said cooling chamber; a cooling material outlet conduit in the end of said cooling chamber opposite



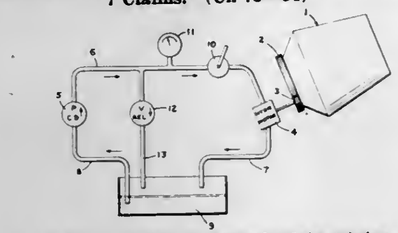
said inlet conduit; a pressure gauge connected to said flow line upstream of said pressure reduction tube; a pressure gauge connected to said flow line downstream of said pressure reduction tube; temperature measuring means operatively connected to said gas pressure reduction tube; and valve means connected to said cooling chamber for controlling cooling material flow through said cooling chamber.

2,643,542

APPARATUS FOR DETERMINING THE CONSISTENCY OF CONCRETE MIX

George W. Cronk, East Orange, N. J., assignor to Worthington Corporation, a corporation of Delaware

Application September 6, 1947, Serial No. 772,574
7 Claims. (Cl. 73—54)



1. A slump meter for visually determining the consistency of the mixture in a mixing drum on mixing apparatus comprising, a hydraulically operated motor for rotating said mixing drum, a constant delivery pump for supplying pressure fluid to said motor, conduit means to carry said pressure fluid between said pump and said motor, and visual indicating means connected to said conduit means between said pump and said motor responsive to variations in the back pressure in said conduit caused by the variations in the consistency of the mixture in the mixing drum.

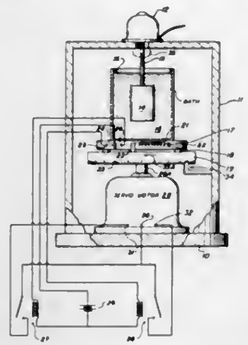
2,643,543

VISCOSITY MEASURING DEVICE

Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application September 4, 1948, Serial No. 47,803
6 Claims. (Cl. 73—59)

3. In a viscosimeter having a container for a liquid the viscosity of which is to be measured, the container being rotatably mounted on an axis, a co-axial rotor disposed within the container and means for driving the rotor, the combination which comprises a support upon which the container is rotatably mounted, said support being rotatable co-axially with the container, springing means connecting the support



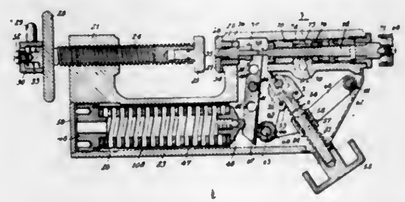
to the container and permitting restricted rotation of one with respect to the other, means connected to the support for rotating the support to hold the container in a substantially constant rotational position, and means for indicating the amount of rotation of the support required to hold the container in the substantially constant rotational position.

2,643,544

HARDNESS TESTER

Milton A. Chester, Los Angeles, Calif., assignor to The Development-Research Corporation, Los Angeles, Calif., a corporation of California

Application March 23, 1951, Serial No. 217,197
23 Claims. (Cl. 73—81)



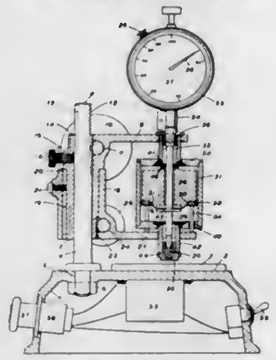
1. An instrument in the nature of a hardness tester comprising a base, a penetrator operable on said base, a spring for urging said penetrator into engagement with material to be tested and toggle mechanism for effecting loading and unloading of said spring in respect to said penetrator, including toggle links joined in end-to-end relation and carrying a thrust block at the point of joinder, an anchorage support for the toggle links at one end, connecting means between the opposite end of the toggle links and the spring for applying the thrust of the toggle to or releasing it from said spring and leverage applying means connected between said thrust block and a stationary part of the base for effecting the thrust applying and releasing movements of said toggle links.

2,643,545

APPARATUS FOR MEASURING THE HARDNESS OF MATERIALS

Arthur Rowlatt More, Caterham, England, assignor to H. W. Wallace & Company Limited, Croyden, England, a body corporate of Great Britain

Application June 22, 1949, Serial No. 100,626
In Great Britain June 22, 1948
2 Claims. (Cl. 73—83)



1. Apparatus for measuring the hardness of materials comprising a base providing an upper horizontal rigid fixed datum surface for specimens, a guide column upstanding from said base, a carriage riding said guide column, a housing supported by said carriage and having a bottom, an indenting member, a plunger mounting said indenting member and exerting thereon a constant mass load, said plunger being guided for vertical movement in said housing, means for selectively adding a supplementary mass load to the indenting member including an annular weight freely encircling the plunger within said housing, a tapered downward projection on the underside of said annular weight, a complementarily tapered annular support upon which the annular weight normally rests, a platform abutment on said plunger, column means sustaining said annular support and passing downwardly through apertures in the bottom of the housing, and a member extending beneath said housing and supporting said column means, said member being mounted on the carriage and vertically movable in relation thereto for lowering the support and causing the weight to rest on said platform abutment to load the plunger.

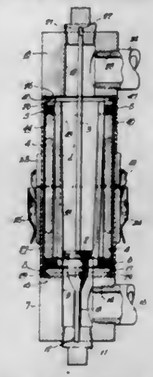
2,643,546

PROTECTIVE CAGE STRUCTURE FOR TUBULAR GAUGES

Frederick Boehm, Philadelphia, Pa., assignor to Schutte & Koerting Co., Philadelphia, Pa., a corporation of Pennsylvania

Application December 6, 1949, Serial No. 131,311
5 Claims. (Cl. 73—209)

1. In a protective structure for the fragile transparent tubes of gauges and the like, the combination with such tube of a flexible sealing ring embracing each end of said tube, a transparent tubular casing surrounding the tube and confined between said rings, a terminal fitting at each end of the tube abutting the outer end faces of the respective rings, a cage embracing the casing and having side ports through which the casing is visible, said cage comprising separable end sections relatively movable longitudinally of the casing, means for preventing relative angular movements between the cage sections about the longitudinal axis of the cage, means for detachably interlocking each of the terminal fittings with the proximate cage section for movement with



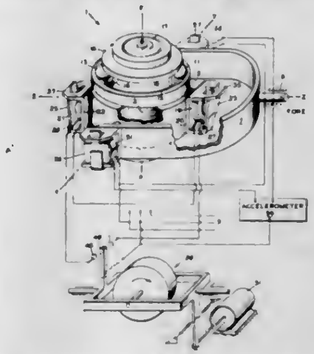
the latter as a unit in the said longitudinal direction, and means for forcibly drawing the said sections toward each other so as to compress the sealing rings between the terminal fittings and the respective proximate ends of the casing thereby to expand the rings into firm sealing engagement with the outer surface of the tube.

2,643,547

GYROSCOPE HAVING ERECTING MEANS TO COMPENSATE FOR ACCELERATION ERRORS

Henry Konet, Hoboken, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application September 30, 1950, Serial No. 187,806
13 Claims. (Cl. 74—5.4)



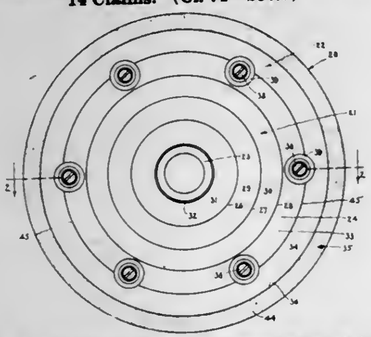
1. In a gyroscope having a rotor mounted for rotation about mutually perpendicular axes and adapted to spin about an axis having a predetermined attitude, erecting means for maintaining the spin axis of the gyroscope in said predetermined attitude, and a mass movable in response to acceleration forces and substantially perpendicular thereto to provide erecting torques for counteracting the erecting torques of said means due to acceleration forces.

2,643,548
ENGINE STARTER DRIVE
Donald L. Miller, Horseheads, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application March 14, 1951, Serial No. 215,410
9 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a screw shaft fixed thereon, a control nut threaded on the screw shaft, a pinion slidably journaled on the power shaft for movement into and out of mesh with a gear of an engine to be started, means for actuating the pinion from the control not including an overrunning clutch and means actuated by the demeshing movement of the pinion for increasing the drag of the overrunning clutch.

2,643,549
CONTACT WHEEL AND THE LIKE
Harry Whitesell, Chicago, Ill.
Application September 23, 1952, Serial No. 311,129
14 Claims. (Cl. 74—230.7)



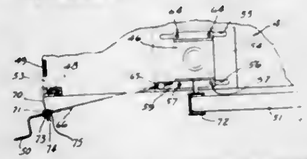
1. A wheel comprising in combination a tubular hub member, a body member comprising a pair of circular sheet metal body elements of generally conical form and of the same external diameter and having central openings of size to fit on to the hub member, each body element having an annular peripheral flat portion lying in a plane normal to the conical axis of such element and terminating in a circular peripheral edge, said body elements being mounted on the hub member with their concave surfaces facing each other and with their flat annular peripheral portions in facial contact with each other and with their circular peripheral edges in registry with each other and defining a circular periphery of the body member of axial dimension equal to the combined thicknesses of the two body elements, together with an annular peripheral member removably mounted on said body member and comprising a pair of circular angle section elements of the same size and each having one leg of its angle lying in a plane normal to the central axis of such element and extending radially inwardly at the concave face of such element, and the other leg of each of said circular angle elements lying in a cylinder coaxial with the central axis of such element, said circular elements being set with their radial leg portions in facial contact with each other and with their cylindrical leg portions in cylindrical alignment with each other, means to secure both of said circular angle section elements together in such set relationship, the inner edges of the radial leg portions defining a central opening of the same size as the periphery of the body member, the combined thicknesses of the radial legs of both of the leg portions being substantially the same as the combined thicknesses of the peripheral portions of the two body elements, a cylindrical foraminated element mounted on the cylindrical leg portions of the two angle section elements, suitable formable material coating the outwardly facing surface of said cylindrical foraminated element and extending through the foraminations thereof, and means to removably secure the said annular peripheral member to the said body member with the radial leg portions of the angle section elements in planar alignment with the annular peripheral flat portions of the body member.

2,643,550
ARTICULATED TRANSMISSION BELT FOR V-GROOVE PULLEYS
Cesare Giulio Borgna, Pinerolo, Italy
Application November 12, 1949, Serial No. 126,748
In Italy November 18, 1948
10 Claims. (Cl. 74—236)



1. A transmission belt for pulleys having a trapezoidal groove comprising in combination, a plurality of belt elements, each of said belt elements comprising in combination, a block having inclined lateral faces adapted to fit into the groove of the pulley, and a plurality of wire links each having a shape equal to the longitudinal cross section of said block with a projecting loop portion on one side, said wire links being mounted on said block extending in longitudinal direction forming a cage with said loop portions projecting alternately in opposite directions towards adjacent elements whereby transversally adjacent loop portions are spaced from each other for receiving corresponding loop portions of the adjacent elements; and a plurality of pins, each pin passing through the interwoven loop portions of two adjacent elements hingedly articulating and connecting the same to each other.

2,643,551
BELT TIGHTENER
Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Original application February 17, 1945, Serial No. 578,371, now Patent No. 2,494,360, dated January 10, 1950. Divided and this application January 9, 1950, Serial No. 137,508
10 Claims. (Cl. 74—242.14)



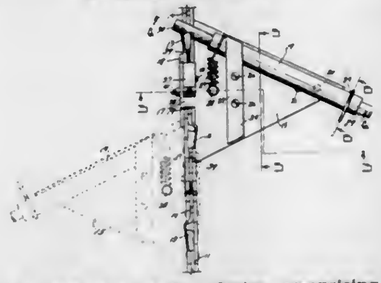
1. In a belt tightener and power controlling device for an implement, the combination of a support carried by the implement, a prime mover on the support and adapted to be slidable thereon, a pulley rotatably carried by said prime mover, a belt on said pulley receiving power therefrom and transmitting it to a point of use on the implement, said support providing a slot extending in the direction in which it is desired to shift said prime mover in order to tighten and loosen said belt, a strap portion on said prime mover, a plurality of spaced bolts extending through a portion of said prime mover and through said strap portion and said slot, spacers on said bolts also extending through said slot, a guiding means engaged with said bolts, and nuts engaged with said bolts and clamping said strap, said portion of said prime mover, said spacers and said guiding means rigidly together, said spacers being of a length to space said guiding means sufficiently from said prime mover portion to provide for free sliding of said prime mover on said support regardless of the clamping effect of said nuts on said strap, said prime mover, said spacers, and said guiding means.

2,643,552
CONTROL CAM AND APPARATUS FOR POSITIONING THE SAME
Freeman H. Owens, New York, N. Y.
Application July 23, 1947, Serial No. 762,949
2 Claims. (Cl. 74—567)



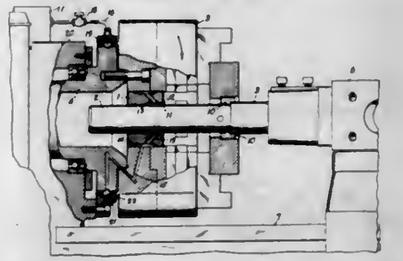
1. In combination, a rotatable helical cam comprising a resilient strip curled into helical form, the helical periphery of said strip being shaped to define a cam surface, one portion of said cam being fixed in position relative to motion in the direction of the axis of rotation thereof and another portion of said cam being movable in the direction of the axis of rotation thereof, a cam follower engageable with said cam surface and non-movable in a direction parallel to the axis of rotation of said cam, and means for rotating said cam.

2,643,553
CHAIN SAW SHARPENING DEVICE
Boreece Evanoff, Oak Creek, Colo.
Application February 2, 1952, Serial No. 269,662
5 Claims. (Cl. 76—37)



1. A saw sharpening device comprising: a gauge plate; an inside flange extending downwardly from said gauge plate to engage one side of said saw; an outside flange extending downwardly from said gauge plate to engage the other side of said saw; an adjusting screw mounted on said gauge plate over said saw and positioned to engage a tooth of the latter; a rotary saw sharpening member pivotally mounted on said gauge plate and adapted to engage the other side of said tooth; a spacing member mounted on said gauge plate; a spring urging said sharpening member toward said spacing member; and a leaf spring mounted on said spacing member and resiliently engaging said sharpening member for retaining the latter in place.

2,643,554
BORING BAR PILOT SUPPORT
Ernest Sperisen, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application January 14, 1948, Serial No. 2,291
2 Claims. (Cl. 77—3)

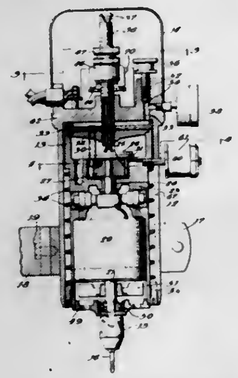


1. In a machine tool of the class described including a boring bar and a work support having a central opening to receive said bar, said work support and boring bar being relatively rotatable and axially movable on the longitudinal axis of the bar and the bore to be formed in the work, said boring bar being supported at one end and adapted to carry a tool adjacent thereto and having a cylindrical pilot at the other end thereof disposed to pass through a rough opening in the work as the tool approaches the work, an annular nozzle supported and disposed to receive said pilot prior to the engagement of the tool with the work, said nozzle having a circular chamber connected to a supply of fluid under pressure and defined by annular members dimensioned to fit said pilot and direct the discharge of fluid therebetween along the surface of the pilot to remove foreign matter therefrom, and a journal bearing carried within the opening of said work support to receive and guide said pilot after the end of the pilot has passed the chamber of said nozzle and foreign matter has been removed by the fluid from the end of the pilot before entering said bearing.

2,643,555
SELF-CONTAINED POWER UNIT
James P. Steibel, Racine, Wis., assignor to The Dumore Company, Racine, Wis., a corporation of Wisconsin
Application January 12, 1950, Serial No. 138,083
20 Claims. (Cl. 77—6)

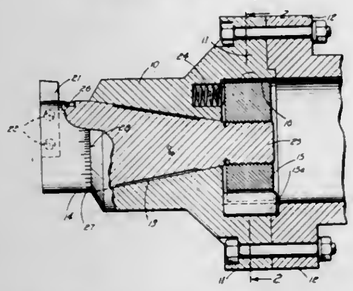
1. A self-contained power unit for a tool such as a drill and designed for mounting in a fixed position above the work comprising a cylinder, a piston cooperating therewith to provide an expansible chamber, the lower end of said cylinder being open to the atmosphere, a motor carried by said piston and movable therewith, tool engaging means driven by said motor and projecting from the lower part of said piston, and means

driven by said motor to supply a fluid to said chamber to force said piston downwardly so that



a tool driven by said motor will be forced into engagement with the work.

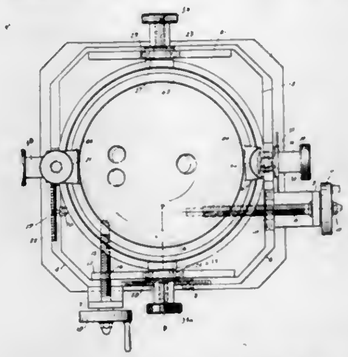
2,643,556
BORING TOOL
Ottis R. Briney, Jr., Pontiac, Mich.
Application March 15, 1950, Serial No. 149,795
5 Claims. (Cl. 77—58)



1. A boring tool comprising a boring bar retainer operatively engaged with the driving spindle in a machine tool, said retainer having a tapered eccentric bore therein, a tapered boring bar in the bore in said retainer, a cutter in the outer end of said bar, a split nut on the inner end of said bar to delimit axial movement thereof, a spring intermediate said nut and said retainer for maintaining the bar in seated engagement with said retainer, and a draw bolt in the retainer and nut for driving the bar and clamping the nut upon the bar.

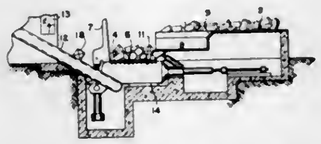
2,643,557
FIXTURE FOR SPHERICAL MEMBERS
Walter T. Grove, Erie, Pa.
Application September 27, 1949, Serial No. 118,140
9 Claims. (Cl. 77—63)

1. A fixture for holding a spherical member comprising spaced, vertically extending support members, a circular frame pivotally supported on said support members, a circular cradle for holding a spherical member, outwardly extending shafts on said circular cradle pivotally supported on said circular frame and rotatably movable at right angles to the rotative movement of said circular frame, a circular clamping ring hinged on said frame complementary to said cradle adapted to be disposed over the upper



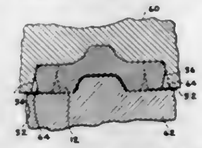
side of a spherical member seated in said cradle, a clamping member detachably connecting said cradle and said clamping ring in a locked position in relation to a spherical member in said cradle, and outwardly directing handles on the shafts on said circular cradle in said frame for rotating same.

2,643,558
INSTALLATION FOR USE WITH SCRAP BRIQUETTING PRESSES
Waldemar Lindemann and Fritz van Endert, Duesseldorf, Germany
Application April 23, 1949, Serial No. 89,245
In Germany March 30, 1949
1 Claim. (Cl. 78—0.5)



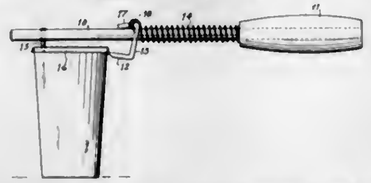
In combination with a scrap storing podium, a scrap briquetting press, a press box in said press said press box having an upper charge opening, said opening being located at a lower level than the level through which said podium extends, a recess in said podium next to said charging opening, a scrap charging trough located in said recess tiltably connected with said press box and located in its horizontal filling position in a level which extends between the podium level and the level through which the charging opening extends, two recesses adjacently located at the opposite lateral sides of said press box, two loading troughs in said recesses, the upper edges of said two troughs located at approximately the same level as said podium, the bottom of said troughs located at an intermediary level between said charging opening and said podium and pushers provided in said two troughs on the two lateral sides of said press box to push the scrap in a mutually opposite direction from said lateral troughs into said press box.

2,643,559
MANUFACTURE OF SLIDE FASTENER WIRE
Valentine Scheuerman, Union, N. J., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application August 14, 1947, Serial No. 768,620
7 Claims. (Cl. 80—60)



1. In the manufacture of slide fastener wire having projections on one side, recesses on the other side, and serrated edges, the method of rolling said wire without fin or scrap in the serrations thereof, which includes preliminary rolling a round wire to give the wire a uniform cross-section with a profile having a ridge along one side and a groove along the other, thereupon again rolling the wire to deform the ridge into a series of spaced projections, and to deform the groove into a series of spaced recesses, and at the same time to form serrations along the side edges of the wire, the serrations being formed to their final dimension near one face only of the wire, and thereupon again rolling the wire to form serrations along the side edges of the wire, the serrations being formed to their final dimension near the opposite face only of the wire.

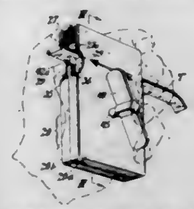
2,643,560
PRY TYPE CLOSURE REMOVER WITH PIERCING PRONG
Garnet L. Brown, Jamison, Pa.
Application June 12, 1952, Serial No. 293,085
1 Claim. (Cl. 81—3.47)



In a sealed container closure opener, the combination which comprises a handle having a rod extending therefrom, a prong mounted in the rod spaced from the end opposite to that on which the handle is positioned and extending from one side of the rod, a substantially U-shaped slider having a flange positioned to travel on the rod and another flange, the end of which is beveled providing a gripping jaw for gripping the edge of a container closure with the prong piercing the closure, and a spring on the rod positioned between the handle and slider and connected to the flange of the slider positioned to travel on the rod.

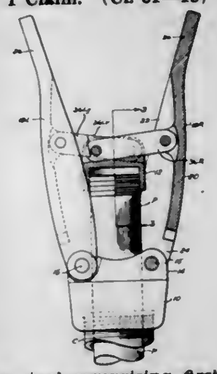
2,643,561
WIRE STRIPPING IMPLEMENT
Amos Ackley, Camden, N. J.
Application May 14, 1949, Serial No. 93,323
5 Claims. (Cl. 81—9.5)

1. An implement for stripping insulation from twin wire electric conductor tape, comprising a female cutting element with an elongate slot therein of a width less than the spacing of the conductors of the tape, and with a clamping surface beyond one end of the slot; means for guiding the tape endwise into position onto said cutting element centrally over the slot therein; a male cutting element with a U-shaped cutting edge adapted to enter the slot of the female cutting element and slit the insulation of the tape



longitudinally between conductors; and with lateral clamp portions at the leg ends of the U-shaped cutting edge to cooperate with the clamping surface of the female element, said clamp portions having arcuate cutting notches to sever the insulation part way around the respective conductors of the tape; and means for moving the male cutting element relative to the female cutting element to effect the cutting.

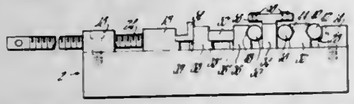
2,643,562
SPREADING TOOL FOR RESHAPING DEFORMED AUTOMOBILE BODIES
John W. Geddes, Boston, Mass., assignor to H. K. Porter, Inc., Somerville, Mass., a corporation of Massachusetts
Application March 12, 1949, Serial No. 81,112
1 Claim. (Cl. 81—15)



A spreader tool comprising first and second base members providing means whereby the parts hereinafter recited are respectively operatively associated with the movable and stationary members of a jack, the second member having work-engaging arms arising from opposite sides thereof and pivoted proximally thereto and links pivoted at one end to the arms at points remote from the pivots of said arms and extending inwardly and proximally across the center line of the device and pivotally connected at their other ends to said first member at points respectively at the further side of that line, the said base members being located at the proximal ends of the links and arms respectively, the links in the approximated position of the arms, corresponding to a rearward position of the first base member as when the movable member of

the jack is retracted, crossing the center line at an acute angle and on outward movement of said first member, corresponding to extension of the movable member of the jack, moving close to a transversely aligned position at right angles to said line, said first member having surfaces opposing the links which abut the same and provide stops to prevent the links actually reaching that position.

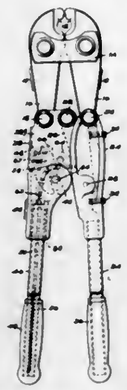
2,643,563
SCREW-OPERATED VISE CONSTRUCTION
Alfred E. Gaudreau, Springfield, Mass.
Application April 7, 1950, Serial No. 154,561
1 Claim. (Cl. 81—33)



A vise construction comprising in combination, a unitary base including secured together opposite and adjacent longitudinal side and transverse end members each having vertical legs and upper inwardly extending horizontal foot portions, said foot portions having coplanar upper horizontal supporting faces, a transverse stationary jaw secured to the upper face of the foot of one said end member and having an inner clamping face, a transverse strut secured to the upper face of the foot of the other end member, a transverse movable jaw slidable on the upper faces of the feet of the side members and having an inner vertical transverse clamping face, means guiding said jaw in straight line movements between said stationary jaw and strut, a threaded spindle threadedly engaging the strut and being operatively connected to said movable jaw, and a plurality of elongated intermediate jaws separate from and slidable on the upper faces of the feet of the side members between the stationary and movable jaws and each having opposite elongated vertical clamping faces, whereby work pieces between adjacent clamping faces of the stationary and movable and separate jaws may be clamped by moving the movable jaw towards the stationary jaw.

2,643,564
PORTABLE HAND TOOL FOR ALTERNATIVE DIRECT AND STEP-BY-STEP OPERATION
Charles H. Klein, Cleveland, Ohio, and Thomas M. Porter, Brookline, Mass., assignors to The National Telephone Supply Company, Cleveland, Ohio, a corporation of Ohio
Application May 28, 1952, Serial No. 290,492
19 Claims. (Cl. 81—46)

3. A portable tool comprising work-engaging jaws and first and second relatively swinging arms connected thereto to approximate and separate the jaws on in and out movements of the arms, the second of the arms comprising a distal part which is connected to one of the jaws and a proximal part pivotally connected to the distal part to provide for oscillation of the former relative to the latter, a pulling member connected to the first arm, a ratcheting mechanism carried by the second arm for hauling on said member and comprising a pawl on the proximal part, a locking device for securing together the proximal and distal parts against relative pivotal movement and means for throwing in and out said pawl and in correlation engaging and disengaging the locking device comprising a single control device including the portion of the proximal part which is normally grasped by the hand, which part is arranged for turning by the hand about an axis extending lengthwise of the



part and a spring-supported, distally pressed face cam turned therewith having lobes which operate the pawl and locking device respectively.

2,643,565
EXPANDING JAW PLIERS FOR REMOVING CLIPS FROM COIL SPRING ASSEMBLIES AND THE LIKE
George W. Mount, Greenfield, Mass.
Application November 30, 1950, Serial No. 198,369
2 Claims. (Cl. 81—48)



1. A spreader tool for removing holding clips from coiled spring assemblies comprising two identical levers each having a handle portion at one end and a cross head at the other with two parallel free ended work-engaging fingers extending one from each end of the cross head at an obtuse angle to the handle, said fingers being spaced one from the other to straddle the clip to be removed, each lever having a fulcrum lug extending therefrom substantially at the apex of the reflex angle formed by the fingers and handle, one side face of the lug being equidistant from the outer side of one finger and the inner side of the other finger, said levers being connected together with said side face

of one lug in face to face engagement with the corresponding face of the other lug, whereby when the handle portions of the levers are spread apart the fingers of one cross head may be brought into lateral contiguous interdigital alignment with the fingers of the other cross head at opposite ends of the clip.

2,643,566
BUNG WRENCH
Alfred Dos Santos and William K. Mossman, Honolulu, Territory of Hawaii
Application August 7, 1950, Serial No. 178,034
1 Claim. (Cl. 81—71)



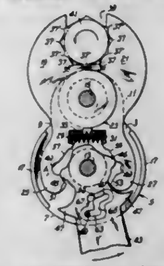
A wrench for polygonal, substantially cup-shaped bungs having a diametrically extending rib, comprising a flat metallic bar having an opening in one end portion, a shank fixed in the opening, and a polygonal socket member for the reception of a bung, fixed on the bar in spaced, concentric relation to the shank, the free end portion of said shank projecting beyond the socket member and having a kerf therein for the reception of the rib when said socket member is engaged with the bung.

2,643,567
TOGGLE ACTUATED PLIER WRENCH
John Johnson, Brockton, Mont.
Application September 28, 1951, Serial No. 248,684
11 Claims. (Cl. 81—84)



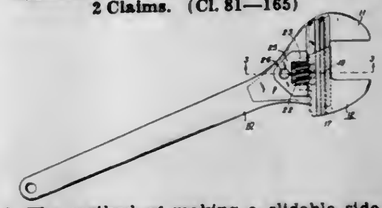
1. A plier-wrench including a fixed handle; a movable handle connected thereto for swinging movement through a path extending longitudinally of the fixed handle, the connection of the handles to one another comprising an actuating lever pivotally attached at its ends to the respective handles; a pair of jaws provided with parallel, work-engaging faces and articulated to the fixed handle for movement into engagement with a work piece, said jaws being respectively extended longitudinally of the fixed handle, the articulated connection of each jaw to the fixed handle comprising a pair of control links of equal length respectively connected pivotally at their opposite ends to and spaced longitudinally of the jaw and fixed handle, said links being arranged for swinging movement of the jaws toward and away from one another while holding the jaw faces parallel; a center plate mounted on the fixed handle to shift longitudinally thereof in a straight line; a linkage between the center plate and the movable handle operative to shift the center plate responsive to movement of the movable handle toward the fixed handle; and toggle means articulated to the center plate and jaws and effective to engage the jaws with the work piece responsive to longitudinal shifting of the center plate.

2,643,568
WRENCH HAVING SPRING-CLOSED AND LEVER-LOCKED PIVOTAL JAWS
Charles A. Milentz, St. Louis, Mo.
Application April 14, 1952, Serial No. 282,089
18 Claims. (Cl. 81—91)



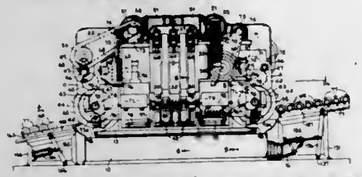
1. A wrench comprising a housing, a handle having an end pivoted on a first pivot within the housing, bight-forming jaws pivoted to said housing on a second pivot, levers extending from said jaws located within the housing and flanking the inner end of the handle within the housing, a spring resiliently biasing said levers apart so as resiliently to bias the jaws together, said levers being shaped to be movable with respect to the handle upon separation of the jaws against the resilient action of said spring when the handle is in a neutral position, and interlocking means between the inner end of the handle and the levers for locking apart the levers and locking together the jaws when the handle is in a position angled with respect to the neutral position.

2,643,569
SLIDABLE SIDE JAW WRENCH
William A. Barnes, Utica, N. Y., assignor to Utica Drop Forge & Tool Corporation, a corporation of New York
Application May 3, 1950, Serial No. 159,760
2 Claims. (Cl. 81—165)



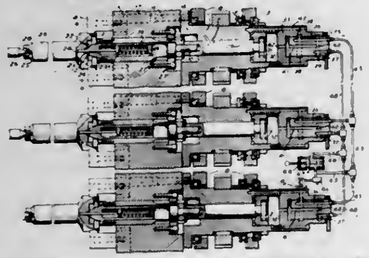
2. The method of making a slidable side jaw wrench, comprising the steps of, forming a metal blank having a handle, a stationary jaw, and a jaw rail portion, thereafter forging said jaw rail portion into jaw guide rail surfaces at substantially a 90° angle with respect to said stationary jaw, finishing said rail surfaces into smooth lateral shoulder rails, separately preparing a movable jaw blank, broaching a slot through said movable jaw having a cross-section to pass in interfitting relationship upon said rail surfaces and be reciprocably guided thereby, providing rack teeth along the edges of said slot, providing a worm gear pinion with teeth to drive said rack teeth, stamping an opening shaped substantially in the shape of said worm gear pinion through said handle of the wrench body at a position to underlay said rack teeth of the movable jaw, placing said jaw on said rail, placing said worm gear pinion in said stamped opening, and clamping said worm gear pinion in said opening.

2,643,570
MULTIPLE STATION CENTER DRIVE CRANKSHAFT LATHE
Harold J. Siekmann and Walter R. Meyer, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio, a corporation of Delaware
Application March 13, 1950, Serial No. 149,394
3 Claims. (Cl. 82—2.7)



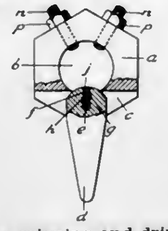
1. In a work handling apparatus for a center drive crankshaft lathe having, a right hand and a left hand tailstock vertically reciprocable on said lathe horizontally disposed centers in said tailstocks, a work receiving rail on each of said tailstocks, means for vertically shifting said tailstocks to present either said centers or said receiving rails in operative position in said lathe, means for horizontally loading unmachined crankshafts on a receiving rail of one of said tailstocks comprising a reciprocatable loading track inclined downwardly toward said receiving rail, power means for reciprocating said loading track, a trip stop on the inner lower end of said loading track arranged to engage said receiving rail when in operative position when said loading track is moved toward said tailstock to engage said rail to release an unfinished crankshaft and deposit it on said receiving rail of said one tailstock, and means for removing a finished crankshaft from the receiving rail of said other tailstock comprising, a reciprocatable unloading track inclined downwardly away from said other tailstock, power means for horizontally reciprocating said unloading track, and pickup fingers on the inner raised end of said unloading track adapted to engage said receiving rail on said other tailstock when said unloading track is moved toward and in engagement with said other tailstock to remove said finished crankshaft from said receiving rail.

2,643,571
MACHINE TOOL CENTERING DEVICE
Edward P. Bullard III, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut
Application May 15, 1948, Serial No. 27,185
5 Claims. (Cl. 82—33)



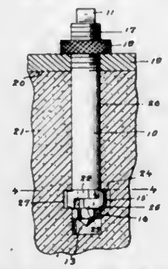
1. In combination, a work-supporting center having a tapered nose adapted to seat within a work center; a straight pin mounted for axial movement within said work-supporting center, and of such length that its free end is adapted to extend substantially beyond the nose of said work-supporting center to radially locate the work relatively to, but independently of said work-supporting center; and a spring adapted to urge the free end of said pin outwardly of said work-supporting center by a force that can be overcome by an operator in loading work on said pin.

2,643,572
CARRIER OR DRIVING MEANS FOR WORK-PIECES IN LATHES AND THE LIKE
Stanley Gordon Howard, Sutton Coldfield, England
Application March 1, 1950, Serial No. 146,976
In Great Britain March 10, 1949
2 Claims. (Cl. 82—42)



2. A carrier for gripping and driving a rotatable work-piece in a machine comprising a ring member to receive the work-piece, a slot in said ring in a plane at right angles to its axis, a cam lever mounted in said slot for engagement with the work-piece, a substantially radial elongated opening in said lever, a pin fixed in said ring member parallel to the axis thereof and passing through said opening in the lever, and spring means mounted in said lever and bearing on said pin for normally holding the lever at the inner limit of its radial movement.

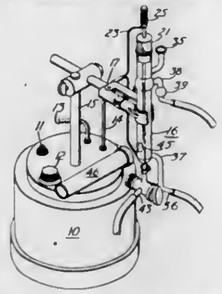
2,643,573
MASONRY ANCHOR BOLT
Chester F. Johnson, Los Angeles, Calif.
Application December 13, 1950, Serial No. 200,520
1 Claim. (Cl. 85—1)



In a masonry anchor bolt, a cylindrical body having a threaded portion, a stud formed within the periphery of the body portion and extending from an end of said body and having wrench engaging faces thereon, a knurled collar threadedly engaging said cylindrical body, a reduced diameter cylindrical shank extending from the other end of said body and having a threaded free end portion, said shank terminating in a conical shaped end, a spring washer circumposed on said shank and provided with overlapping

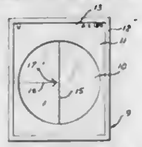
ends having their peripheral edges shaped arcuately, and a nut having a maximum diameter substantially equal to the diameter of said body arranged in threaded engagement with the threaded portion of said shank and abutting said spring washer, said washer in its normal expanded state having an external diameter greater than the diameter of said body and having an internal diameter less than the diameter of said body.

2,643,574
METHOD AND EXCITATION CHAMBER FOR SPECTROSCOPIC ANALYSES
Floyd Todd, Springfield, Pa.
Application February 14, 1951, Serial No. 210,972
3 Claims. (Cl. 88—14)



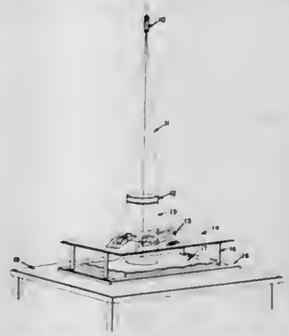
3. A method of analyzing a material with respect to metallic elements therein, which comprises disposing a static body of electrolytic liquid containing said material in solution in surrounding relation to and in contact with a pair of spaced electrodes, with the liquid contacting one of the electrodes over a small area less than the area of liquid contact with the other electrode, applying to the electrodes a low voltage of magnitude to produce a luminous discharge from said one electrode to the electrolytic liquid, and spectroscopically viewing said discharge to distinguish the metallic elements in said material by the characteristic lines in the luminous discharge.

2,643,575
ALIGNMENT TARGET FOR TESTING EYES
John Mark Richards, Stony Point, N. Y.
Application August 7, 1947, Serial No. 766,974
3 Claims. (Cl. 88—20)



1. A pair of targets for testing eyes for muscle imbalance, said pair comprising a first target member having an observation field with markings thereon including a line extending across the entire observation field of that target member and serving as target means for observation by the right eye, a second target member having an observation field with markings thereon and on which the only marking common with the first target member is a line similar to that on the first target member and at a location in the field similar to the location of the line in the observation field of the first target member and extending across the entire observation field of that target member and serving as target means for observation by the left eye, whereby the eyes fuse the lines of both target means in one meridian, which meridian extends at right angles to the direction in which said lines extend, and the eyes remain at rest in the meridian that extends in the direction of said lines since both of the observation fields of said target members are free of any common markings that have end limits or other discrete fusion points which the eyes can fuse in the meridian that extends parallel to the direction of said lines, the markings on the first target member including also an alignment marking constituting a part of the target means thereof and located at one side of the line on that target member, and the markings on the second target member including also a complementary alignment marking constituting a part of the target means thereof and located on the other side of the line of said second target member, the alignment markings being located at predetermined positions with respect to one another along the length of said lines so that the apparent positions of the alignment markings as viewed by the patient gives an indication of any muscle imbalance in the meridian parallel to the lines on said target members.

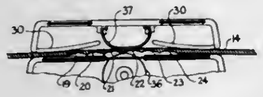
2,643,576
THREE-DIMENSIONAL MAP MODEL ACCURACY COMPARATOR
Mylon Merriam, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Army
Application March 30, 1951, Serial No. 218,511
4 Claims. (Cl. 88—24)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A three dimensional map model accuracy comparator comprising a light source, said source emitting a conical beam of light, collimating lens means positioned to intercept said conical light beam with the axis thereof directed toward the light source, to thereby change said beam to a collimated beam, a transparent sheet positioned in the path of and substantially at right angles to said collimated light beam, said transparent sheet having thereon contour lines respresenting a certain selected terrain, and a three dimensional terrain model positioned below said sheet and in the path of said light beam, with its datum plane substantially parallel to the transparent sheet and substantially at right angles to the light beam, said model representing the same terrain as the contour lines on the transparent sheet, terrain features represented on the sheet and

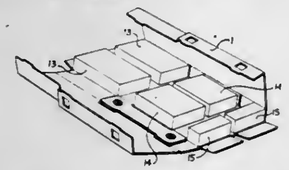
corresponding terrain features represented on the model respectively lying on lines substantially perpendicular to the sheet and to the datum plane of the model, whereby shadows of said contour lines and terrain features on said sheet are projected upon corresponding terrain features of said model for viewing.

2,643,577
STEREOSCOPIC VIEWING DEVICE
John Nelson Williams, New York, N. Y.
Application March 8, 1951, Serial No. 214,473
6 Claims. (Cl. 88—31)



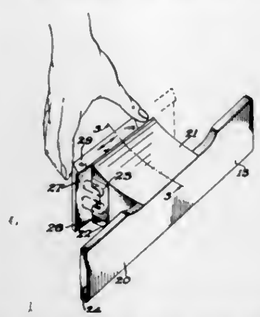
3. In a stereoscopic viewing device, a casing formed of two identical plastic molded parts which have formed therein grooved means for mounting respectively two viewing lenses, a card bearing two picture windows, two window diffusing glasses and a metal spring, said two parts of said casing also having formed therein two hubs for mounting two wheels with serrated edges and one spacer between said wheels, said casing having slotted means for insertion of a plastic molded film frame mounting two successive series of transparencies on a film strip, said viewing lenses mounted in said casing having a line of sight adapted to register with the two picture windows of the aforementioned card and with each pair of stereoscopic pictures mounted in said film frame, said casing having curved runners molded therein to guide said film frame through the slot of said casing, a series of arced indentations formed along both outer longitudinal sides of said film frame which act against the aforementioned two serrated wheels mounted in said casing to alternately turn said wheels while said film frame is thus flexed outward against the aforementioned spring, followed by mating of the arced indentations with said wheels which results in straightening of said film frame in the slot of said casing, and resulting in positive means of viewing each successive stereoscopic pair of pictures mounted in said film frame, said casing and all its component parts being so arranged that each of its halves deriving from the horizontal center plane are identical, so that said casing may be held with either face uppermost for insertion of the film frame into whichever end of the slot should be on the right-hand side.

2,643,578
STEREOSCOPIC VIEWING DEVICE
John Nelson Williams, New York, N. Y.
Application June 19, 1951, Serial No. 232,264
5 Claims. (Cl. 88—31)



In combination, a stereoscope having two viewing tunnels, lenses mounted in one of the ends of each thereof, translucent windows mounted in the other two ends in line with said lenses, a channel running longitudinally through said stereoscope at right angles to said viewing tunnels, said channel being enclosed at the top, bottom and sides and having one end closed and the other end open, a transparency film strip mounted within said channel, said film strip bearing a series of stereoscopic pictures thereon in successive position, the pictures to be viewed by the left eye being in one continuous series, followed by the pictures to be viewed by the right eye in one continuous series, said film strip when manually pushed to the farthermost point within the channel of said stereoscope being stopped by the closed end of said channel, whereby the first stereoscopic picture is in position to be viewed through said two visual apertures, said film strip then moved outwardly through said channel whereby each following stereoscopic picture is viewed, means provided on the inner end of said film strip whereby said film strip is finally and positively stopped in its outward movement when the last of said series of stereoscopic pictures is in position to be viewed, said means on the inner end of said film strip acting to prevent said film strip from being pulled out of said channel.

2,643,579
MICROTOME KNIFE
George W. Jacoby, Jr., Wooster, Ohio
Application February 21, 1950, Serial No. 145,457
6 Claims. (Cl. 88—40)



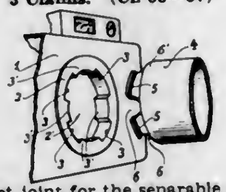
1. In a microtome, a plate comprising two extended end portions adapted to be secured in the knife holder of the microtome and a central portion having an upper face and a front face, a blade adapted to be held against the front face of the said plate, the said blade having a cutting edge along the upper extremity thereof and including a ledge as an integral part of the blade and disposed along the cutting edge, the ledge comprising a laterally projecting portion for engaging the central portion of the plate along the upper face thereof to constrain the vertical movement of the blade with respect to the plate and the upper face of the ledge having a smooth surface extending from the cutting edge to the upper face of the said plate and the surface of the upper face of the plate forming a smooth extension of the surface of the upper face of the ledge, and means for holding the said blade against the front face of the said plate, the engaging portions of the said plate and the said blade being of uniform cross section along the length thereof to permit longitudinal sliding movement of the blade relative to the said plate.

2,643,580
OPHTHALMIC MOUNTING
Frederic I. Miner and Frank W. Lindblom, Warwick, R. I., assignors to Welsh Manufacturing Company, a corporation of Rhode Island
Application October 28, 1950, Serial No. 192,760
2 Claims. (Cl. 88—50)



1. A nose guard comprising a non-metallic pad having a body provided with a raised portion on one side thereof and having a groove therein with the bottom wall of said groove spaced a substantial distance from the adjacent side of said back, an arm for supporting said pad having a portion positioned inwardly from its end and located in said groove with a thickness less than the depth of said groove, spaced means at each end of said portion co-operating with the edges of the raised portion at each end of said groove to restrict longitudinal movement of said arm, and fastening strap means extending across said groove and neck portion to loosely secure said pad to said arm.

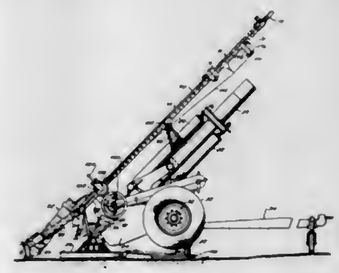
2,643,581
BAYONET UNION FOR CAMERA OBJECTIVE PARTS
Hugo Wehrenfennig, Wetzlar (Lahn), Germany, assignor to Ernst Leitz G. m. b. H., Optische Werke, Wetzlar (Lahn), Germany, a corporation of Germany
Application January 18, 1951, Serial No. 206,658
In Germany February 9, 1950
3 Claims. (Cl. 88—57)



1. Bayonet joint for the separable union of an objective with a camera which comprises a camera housing having a light receiving opening with four lugs extending into said opening and spaced to form four notches positioned at the four corners of a rectangular image field and an objective tube having four outwardly projecting lugs positioned to pass through said notches, said tube wall having cut away portions between said lugs to coincide with said notches when said tube is rotated to bring its lugs into engagement with those of said opening, said tube being sealed by a ring-like shoulder beyond said cutaway portions to said housing to prevent leakage of light to the interior of said housing.

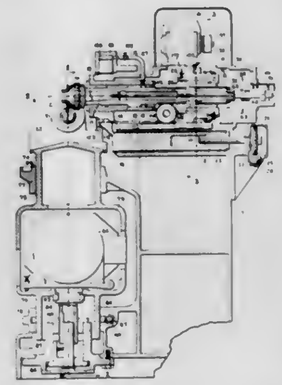
2,643,582
LOADING MECHANISM FOR MORTARS
Maurice F. Healy, Watertown, Mass., assignor to the United States of America as represented by the Secretary of War
Application November 30, 1945, Serial No. 632,096
7 Claims. (Cl. 89—45)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A loading mechanism for muzzle loading mortars and the like comprising in combination, a track mounted on a mortar, a car adapted to travel on said track, means for moving said car with a projectile therein along said track to a



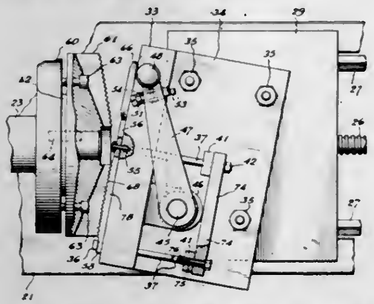
loading position in alignment with the muzzle of the mortar, and means on said car operable to release the projectile for movement into the muzzle of the mortar.

2,643,583
MACHINE FOR CUTTING AND FINISHING GEARS, ETC., BY FORM CUTTERS
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application February 1, 1947, Serial No. 725,884
17 Claims. (Cl. 90—9)



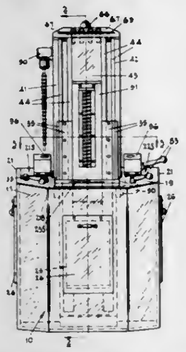
1. A machine for cutting and finishing gears comprising supporting means, a cylinder on said supporting means, a spindle having a piston portion fitted to reciprocate in said cylinder and having a part protruding from the cylinder adapted to carry a gear to be finished or a gear blank, means for causing flow of working fluid to said cylinder at opposite sides of the piston alternately and exhausting the fluid, a cutter mounted in position to perform a cutting action on a work piece carried by the spindle during endwise movement of the spindle, and means for displacing the cylinder and spindle laterally back and forth in timed relation with the endwise reciprocating movements of the spindle.

2,643,584
METHOD FOR CUTTING TEETH IN PINKING SHEARS
Alexander Wertepny and Rudolph J. Wertepny, Chicago, Ill., assignors of sixty per cent to Stanley A. Wertepny, Edward M. Wertepny, and Benjamin Luscalzo, all of Chicago, Ill.
Application May 12, 1949, Serial No. 92,926
4 Claims. (Cl. 90—11)



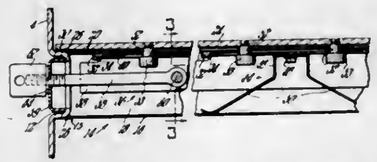
1. In a method for cutting teeth in a pinking shear blade, the steps of rotating a teeth-bearing milling cutter so that the cutting face thereof moves thru a frusto-conical path, advancing a releasable mounted shear blade blank toward the cutter along a path so that the ultimate pivotal axis of the blank intersects the axis of rotation of said milling cutter, and gradually cutting arcuately surfaced teeth in said blank with the arcuately faced teeth of the milling cutter.

2,643,585
BROACHING MACHINE
Elmer J. Lapointe and Francis J. Lapointe, Ann Arbor, Mich.
Application September 26, 1951, Serial No. 248,408
6 Claims. (Cl. 90—33)



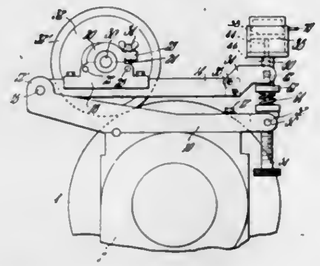
1. A vertical broaching machine having a pedestal base with a horizontal upper end surface, said upper end surface of the pedestal base having at least three edges, two of which are opposite and parallel to each other and the third intermediate and normal the mentioned two edges, a column in normal relation to said surface and upstanding therefrom at points approximately equally spaced inwardly of the mentioned edges whereby the areas of said surface between said edges and column provide three work stations not in line, the column having a plurality of lateral faces in alignment each with one of said working stations; each lateral face having a slideway; a plurality of slides; each slide in slidable engagement with one of said slideways and adapted to be guided in reciprocation to and from said working stations; a tool connector on each slide adapted to removably engage and support a broach tool; and actuatable means in operative connection with each slide adapted to reciprocate each slide relative to its work station whereby a multiple of broaching operations may be effected around said column and on the floor space area occupied by said pedestal base.

2,643,586
SCREEN APPARATUS
Julius J. Colvin, Hudson Falls, N. Y.
Application May 16, 1951, Serial No. 226,674
4 Claims. (Cl. 92—31)



1. Mechanism for releasably clamping a plurality of perforated screen plates in adjacency in screening apparatus having opposite and adjacent elongated side and transverse end walls comprising in combination, elongated hollow transverse struts extending between said side walls in spaced relation and having opposite ends secured thereto and provided with elongated slots along upper sides thereof and upper supporting wall portions along opposite sides of said slots for supporting spaced adjacent side edge portions of adjacent screen plates, elongated actuators movable back and forth within and longitudinally of said struts between clamping and non-clamping positions, separate cooperating engageable cam portions carried by upper supporting portions of said struts and by adjacent upper sides of the actuators carried by the upper supporting portions of said struts and by the upper sides of said actuators arranged and adapted as the actuators are moved to clamping position to urge the actuators downwardly relative to the struts for a clamping action, elongated clamp bars having longitudinal opposite edges for overlying longitudinal adjacent side edges of adjacent screen plates and provided with longitudinally spaced studs extending downwardly therefrom having upper shanks and lower enlarged head portions, said actuators provided with longitudinally spaced openings through which said enlarged head portions of the studs may pass and with longitudinal slots extending therefrom in which the shanks of the studs are receivable as the actuators are moved to clamping position, and manually engageable means connected to said actuators for independently moving said actuators back and forth, all adapted and arranged whereby as the actuators are moved to clamping position the shanks of the studs are entered in the slots thereof so that the enlarged head portions thereof underlie upper sides of the actuators and said actuators are moved downwardly by said cam means so that the actuators through the enlarged head portions of said studs act on and urge the clamp bars downwardly to exert pressure on the edges of adjacent screens.

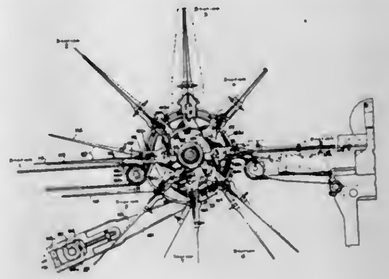
2,643,587
LUMP BREAKER CONSTRUCTION
Paul A. Fasoli, Hudson Falls, N. Y., assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y., a corporation of New York
Application July 1, 1950, Serial No. 171,730
1 Claim. (Cl. 92—47)

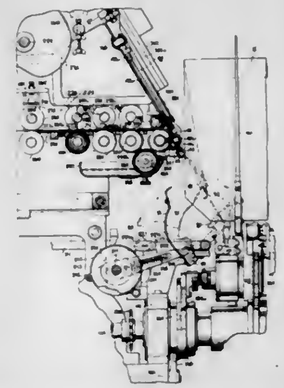


Unitary lump breaker apparatus for securing to spaced side frames of a paper machine having a roll rotatable between said side frames comprising, elongated brackets for securing to said side frames in parallelism and having inner and outer ends, elongated arms disposed over and along said brackets having inner and outer ends, inner ends of said arms pivoted to inner ends of said brackets for movements of the outer ends of the arms up and down relative to the outer ends of the brackets, a lump breaking roll between said arms having end portions journalled therein adjacent the inner ends thereof for cooperating with the roll between said side frames, lower spring supporting means pivotally connected to outer ends of said brackets arranged for up and down movements relative thereto, cylinders pivotally connected to outer ends of said arms for pressure responsive pistons reciprocable in said cylinders, rod means for connection to pistons depending downwardly from said cylinders, arm supports below outer ends of said arms movable downwardly by said rod means and adapted to abut lower ends of said cylinders for moving said cylinders and arms upwardly, compression springs between said spring supporting means and arm supporting means, and lower ends of said rod means axially reciprocable in said spring supporting means for maintaining axial alignment of said spring supporting means and cylinders.

2,643,588
MECHANISM AND METHOD FOR FORMING SLEEVED VALVE BAGS
Edwin E. Burroughs, Brooklyn, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application September 29, 1949, Serial No. 118,545
27 Claims. (Cl. 93—8)

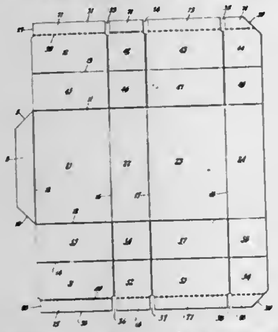
5. Apparatus for forming valves having supplemental sheets in flattened gusseted bags having in combination: a plurality of pairs of clamp elements for holding a succession of flattened bag tubes in side-by-side relation; mechanism for advancing said clamp elements step-by-step for carrying the tubes from a feeding station to succeeding stations including a supplemental sheet applying station and a discharge station; clamp element operating devices operative in timed relation with said mechanism for closing each pair of clamp elements at said feeding station and for opening same at said discharge station to permit discharge of the tubes; and power operated devices operatively associated with said advancing mechanism for acting in timed relationship therewith, said devices comprising: valve corner spreader means positioned for insertion into the gusset of each bag near the corner thereof, said spreader means thereafter being actuated for spreading apart the valve corner to form an accessible valve flap having a valve flap extension, the spreading of the valve corner being effective to spread open at least partially the opposed walls of the tubes at the end thereof; tube end spreader means for thereafter engaging such spread opposed walls adjacent the valve flap and uniformly spreading





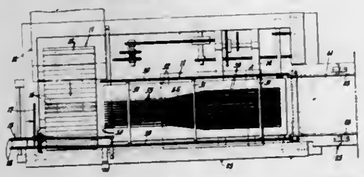
such walls further whereby said valve flap is stretched to a preselected extent, said tube end spreader means having arms which are movable to a position behind the valve flap extension when initially moved into position; means for thereafter pressing the valve flap along a base portion thereof to form a base fold line, said arms being thereafter withdrawable for urging the valve flap extension outwardly of the bag tube; a carrier constructed and arranged to apply a supplemental sheet to each of said flaps at said sheet applying station; and a creaser movable inwardly of the spread bag tube corner and shaped to engage said sheet and valve flap to move same inwardly to restore the corner to a generally closed condition with the valve formed therein.

2,643,589
METHOD OF MAKING CARTONS AND CARTON BLANKS
Arthur J. Weiss, West Englewood, N. J., assignor to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware
Original application September 20, 1945, Serial No. 617,530. Divided and this application September 19, 1950, Serial No. 185,682
5 Claims. (Cl. 93—36)



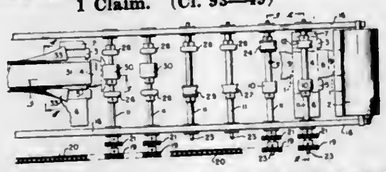
1. The method of forming a carton blank having duplex end flaps which comprises: preparing a carton blank having a side panel portion and, at at least one end thereof, an extension thereof extending beyond a side panel of the blank, folding said extension over on itself and securing it at its free edge portion to said side panel portion at a point spaced from the end thereof, and trimming away a narrow strip of material by cuts through the folded extension on both sides of its bent edge, thereby providing a side panel section with two free end flaps.

2,643,590
MACHINE FOR ASSEMBLING PAPERBOARD PARTITIONS
Heinz Ahlmeyer, Tappan, and Whitney D. Sherman, West Nyack, N. Y., assignors to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware
Application June 21, 1948, Serial No. 34,178
4 Claims. (Cl. 93—37)



1. In mechanism for assembling criss-cross partitions of paperboard and the like, a continuously moving longitudinal conveyor, a continuously moving transverse conveyor having supports for holding partitions in spaced parallel arrangement, a feeding head adjacent the transverse conveyor for feeding partitions into spaced parallel arrangement in said supports, a transfer member intermittently traversing the transverse conveyor in a direction normal to the direction of travel of the transverse conveyor to transfer the partitions in sets from the transverse conveyor to the longitudinal conveyor, a mechanical drive for said transverse conveyor arranged for operation at a predetermined constant speed, and a mechanical drive for said transfer member arranged for operation at a predetermined constant speed, said mechanical drives being interlocked for maintenance of a constant speed ratio therebetween, the mechanical drive for said transfer member consisting of a continuous chain and said transfer member consisting of an arm carried by said chain, the length of said chain being several times greater than the length of the partitions so that said arm traverses the transverse conveyor at intervals spaced to allow accumulation of a predetermined number of partitions on the transverse conveyor while the chain is driven at a substantially constant speed sufficient to cause said arm to clear the transverse conveyor within the space of time that said conveyor advances a distance equal to the distance between the spaced parallel partitions.

2,643,591
AUTOMATIC MEANS FOR MAKING SPECIAL CARDBOARD CONTAINERS
Leo D. Overland, Brooklyn, and Jack W. Levine, Bayside, N. Y.
Application February 15, 1950, Serial No. 144,271
1 Claim. (Cl. 93—49)



A roll press for forming a channel in a cardboard, comprising a first pair of rotatably mounted, cooperating forming rollers and a second pair of rotatably mounted, cooperating forming rollers, the profile of one roller of the first pair of forming rollers having a central channel between two rounded shoulders, the bottom wall of said channel having an arcuate shape, the second roller of said first pair having a projection on its forming profile, said projection fitting into the channel of said first roller and having a fittingly curved bottom wall, the profile of one roller of said second cooperating pair of rollers having a central channel between two outwardly bevelled shoulders, said channel having an arcuate bottom wall, the second roller of said second pair having two channels located opposite and fitting onto the outwardly bevelled shoulders of said first roller and an arcuate central section fitting onto said arcuate bottom wall of said channel in said first roller, means for heating said forming rollers, and means for passing the cardboard between said first pair of rollers and then between said second pair of rollers in aligned positions, whereby first a channel with rounded shoulders is impressed upon the carton and subsequently a channel with bevelled shoulders is superimposed on the first formed channel.

2,643,592
CARTON FORMING MACHINE
Georges Geffroy, Paris, France, assignor to La Cellophane, Paris, France, a French company
Application May 6, 1950, Serial No. 160,515
In France May 10, 1949
1 Claim. (Cl. 93—51)

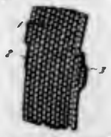
A machine for making folded rectangular open top cartons from flat blanks, comprising a flat plate adapted to receive a flat blank and having

an opening therein through which said blank is pushed for folding and forming the sides and ends, a hollow piston having side and end walls against which the sides and ends of said cartons are formed, a piston rod slidable in said piston, a bottom member carried by said rod adapted to engage and form the bottom of said cartons, a latch plunger carried by said piston and engag-



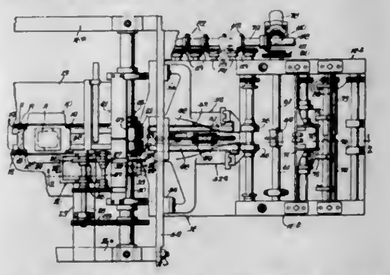
ing a detent in said rod to secure the piston to said rod to move with said rod for forming said cartons, means limiting the forming stroke of said piston, and cam means on said plate operable to engage and release said plunger from said rod in said limit position of said piston, whereby said rod and bottom member can be advanced beyond said limit position for stripping said cartons from the sides of said piston.

2,643,593
METHOD OF PRODUCING MULTIPLY METAL-FOIL-CARDBOARD MATERIAL AND OF PRODUCING ARTICLES FORMED OF SUCH MATERIAL
Frederick Pyne Lenard and Geoffrey William Methven, London, England, assignors to The New Merton Board Mills Limited, London, England, a company of Great Britain and Northern Ireland
Application October 30, 1948, Serial No. 57,524
In Great Britain November 5, 1947
8 Claims. (Cl. 93—55.1)



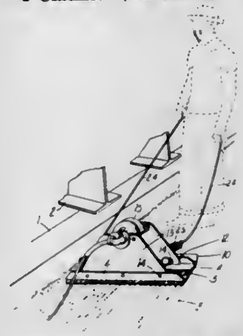
1. A method of producing multi-ply metal-foil-cardboard material comprising first forming a composite web of cardboard permeable by formaldehyde and an impermeable metal foil by adhesively joining the two in face-to-face relationship by means of a liquid soluble adhesive which is convertible to a water insoluble complex by treatment with formaldehyde, then applying precondensed formaldehyde resin adhesive containing uncondensed formaldehyde to the then exposed face of the cardboard, and then subjecting the composite web to temperature conditions for a duration of time dependent upon such temperature; the time being of relatively long duration in the presence of relatively low temperatures such as room temperatures and of relatively shorter duration in the presence of relatively higher temperatures.

2,643,594
ENVELOPE MACHINE
Ernst C. Sauerman, Chicago, Ill.
Application October 28, 1950, Serial No. 192,775
6 Claims. (Cl. 93—62)



1. In an envelope making machine for receiving an envelope blank and gumming, scoring and folding the side and end flaps defined by the score lines to form an end opening envelope, a transverse shaft having means thereon for applying an adhesive to the upper face of one of the side flaps and other means thereon for simultaneously scoring the blank longitudinally and transversely thereof to define the side and end flaps, means for folding the side flaps inwardly and downwardly upon the body of the blank with the flap to which the adhesive is applied being folded over and overlapping the other side flap, means for adhesively securing the side flaps together, means for applying an adhesive to one of the end flaps, a pair of rock shafts having means for folding the last mentioned end flap onto the side flaps, and means for adhesively securing these flaps together to complete the assembly of the envelope.

2,643,595
MACHINE FOR COMPACTING GRANULAR MASS MATERIAL
Corwill Jackson, Ludington, Mich.
Application November 3, 1947, Serial No. 783,709
5 Claims. (Cl. 94—48)



4. In a machine of the class described, the combination of a shoe provided with a plurality of downwardly facing channels having downwardly diverging side walls and open from the front to rear of the shoe, and means for vibrating the shoe at a high frequency comprising a rotor having an unbalancing weight, the axis of said motor being disposed parallel to said channels, and means for supporting the rotor and unbal-

ancing weight on the shoe in substantially vertically spaced relation from the shoe, said unbalancing weight being disposed closer to the forward end of the shoe than to the rear end thereof, said shoe at the forward ends of the channels thereof sloping upwardly to facilitate forward travel of the shoe as the shoe is vibrated, said channels open from the front to the rear of the shoe engaging the compacted material facilitating travel of the shoe forward in a straight line as the shoe is vibrated.

2,643,596

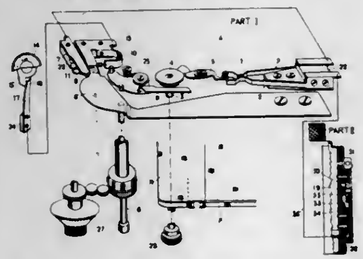
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2,643,597

FLASH SYNCHRONIZER FOR CURTAIN SHUTTER CAMERAS

Hiroshi Suzukawa, Suginami-Ku, Tokyo, Japan, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan, a corporation of Japan

Application September 5, 1950, Serial No. 183,194
In Japan December 21, 1948
9 Claims. (Cl. 95—11.5)



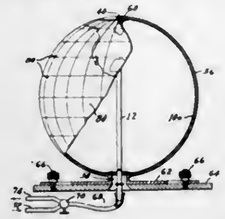
1. A synchronizer for electrically firing a photoflash bulb in one of two selectable time relations with the movement of a camera shutter, comprising a shutter roller shaft, a cam having a single dwell driven by the roller shaft, a first pivoted lever of which one arm is held deflected by the cam dwell in the pre-operated position of the shutter shaft, a second pivoted lever of which one arm extends into a predetermined path portion of the cam dwell, a self-closing electrically conductive switch having two contacts, a source of potential and a flash bulb being adapted to be connected serially from one of said two contacts to ground, the held deflection of said one arm of the first lever maintaining the said one contact disengaged from the other contact, a depressible shutter shaft release mechanism, a switch blade depressable by the shutter shaft release mechanism, a third fixed contact, an electrical connection from the other of the two said contacts to the third fixed contact, a fourth fixed contact adapted to be engaged by the other arm of the second lever when the second lever is deflected at the predetermined portion of the cam dwell path, a flexible arm electrically connected to the fourth fixed contact extending over the third fixed contact and held from engagement therewith in the unoperated condition of the release mechanism by the blade, an electrical connection from the second lever to ground, a shutter speed adjustment shaft, an electrically conductive arm integral with the speed adjustment shaft, a fifth fixed contact electrically connected to the fourth fixed contact, the said conductive arm being adjustably positionable to engage the fifth contact for shutter speeds greater than a predetermined speed and to disengage the fifth contact for shutter speeds less than the predetermined speed, and a connection from the movable integral conductive arm to ground, whereby on depressing the shutter shaft release mechanism the flash bulb is fired in one of the two time relations in accordance with the position of the arm integral with the shutter speed adjustment shaft relative the fifth fixed contact.

2,643,598

FLEXIBLE INFLATABLE AND DEFLATABLE GLOBE AND PROCESS OF MANUFACTURE

Laurence S. Carroll, Great Neck, N. Y.

Application August 17, 1949, Serial No. 110,695
11 Claims. (Cl. 95—76)



1. The method of photographically printing indicia upon an inflatable and deflatable globe, the wall of which is made of flexible material, comprising inflating the globe to approximately the final desired size and applying thereto a light-sensitive photographic material, deflating the globe and inserting it into a rigid hollow transparent globe bearing the indicia to be printed upon the flexible globe, inflating the flexible globe in the rigid globe so that the outer surface of the flexible globe engages the inner surface of the rigid globe, exposing the sensitized surface of the flexible globe to light through the rigid globe, deflating the flexible globe and removing it from the rigid globe, and developing the indicia on the flexible globe, the rigid globe being provided with means for permitting the escape and admission of air therefrom when the flexible globe is inflated and deflated therein, respectively.

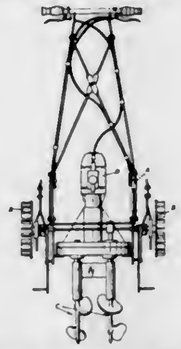
2,643,599

CULTIVATING AND TILLING MACHINE

William Wharton, Hadley Wood, near Barnet, England

Application June 1, 1949, Serial No. 96,590
In Great Britain February 10, 1948
1 Claim. (Cl. 97—38)

An earth-breaking unit for a cultivating and tilling machine, comprising in combination, a pair of spaced parallel downwardly extending rotary tyne spindles adapted to dig into the ground in axial direction, each of said tyne spindles being formed with at least two earth-breaking plates spaced in axial direction of the corresponding tyne spindle, each plate laterally projecting from the corresponding tyne spindle at an angle to the axis of said tyne spindle and to a plane normal thereto, the plates of one of said tyne spindles being arranged opposite to and at the same distance apart as the plates of the other of said tyne spindles and disposed so as to constitute mirror images of the plates of said other tyne spindle with regard to a plane of symmetry parallel to said tyne spindles; a pair of sleeves, each sleeve of said pair of sleeves being loosely mounted for limited axial movement on the upper end of one of said tyne spindles above said earth-breaking plates; and a member rigidly connect-



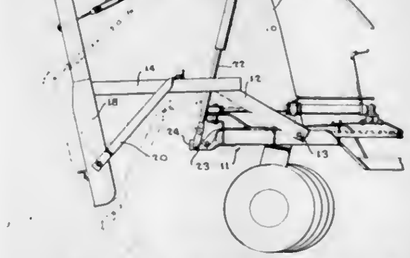
ing said pair of sleeves so as to prevent rotation thereof whereby to prevent accumulation of weeds on the spindles.

2,643,600

GAP FILLER USED FOR IRRIGATION PURPOSES

Louis G. Rinderknecht, Escalon, Calif.

Application October 31, 1950, Serial No. 193,138
2 Claims. (Cl. 97—55)



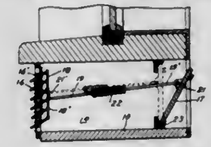
1. In a ridging machine, a frame, a pair of longitudinal drawbar members pivotally secured to said frame and extending rearwardly therefrom, a transverse bar member connecting the intermediate portions of said drawbar members, a pair of transversely extending shovel members secured in side-by-side, spaced relation to the ends of said drawbar members, an arched bar rigidly connecting the top portions of said shovel members, a plurality of tie bars connecting said shovel members to said transverse bar member, a pair of upwardly and inwardly inclined strut bars pivoted to said frame, an extensible hydraulic link connected between said frame and the top ends of said strut bars, the connection of the hydraulic link to the frame being located rearwardly of the pivotal connections of the drawbar members to said frame, and means connecting said strut bars to the arched bar, whereby extension of said hydraulic link elevates said shovel members.

2,643,601

WINDOW CONSTRUCTION

Howard Gyorfy, Milwaukee, Wis.

Application April 13, 1948, Serial No. 20,750
3 Claims. (Cl. 98—88)



1. A window construction of the character described comprising a rectangular frame, panes of glass inserted within said frame, a ventilating compartment integrally constructed within said frame forming a compartment open at its outer and inner face, a plate disposed along the open outer face of said compartment said plate provided with a plurality of louvers pivotally mounted therein, a door forming an enclosure for the inner opening of said ventilating compartment, said door hingedly supported by said frame, and means for adjusting said door to open or close the opening on the inner face of said compartment, a link member, said link member having one end supported by said door and another end supported by said louvers whereby the degree of opening of the louvers is automatically regulated by the degree of opening of said door.

2,643,602

PRESSURE PROTECTED SILOLIKE CONTAINER FOR PRESERVING FARM CROPS

Wesley G. Martin, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

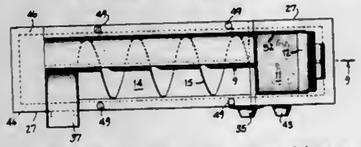
Application July 2, 1949, Serial No. 102,814
1 Claim. (Cl. 99—235)



A storage structure for materials of a type which deteriorate in contact with excessive amounts of air, which comprises a container of substantial capacity for storing said materials and sealed against the entry of air and escape of gases, a foundation supporting the container at the bottom, a supporting member extending transversely of the container adjacent the upper end thereof, an impervious bag suspended within the container from said support and free to slide along said support upon contraction or expansion of the same, and a connection extending through

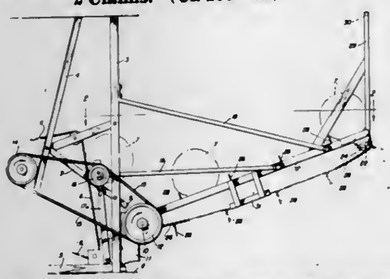
the upper wall of the container from the bag to the outside of the structure for air to flow therethrough into and out of the bag upon expansion and contraction of the gases inside the structure due to changing temperature and barometric conditions and the respiratory action of the materials, and an unloader disposed in the bottom of the container to unload materials from the container through a sealed opening in the lower portion thereof without disturbing the operation of said bag in protecting the structure against rupture and the materials therein against spoilage.

2,643,603
COOKING MACHINE
Musa S. Balluteen, Brooklyn, N. Y.
Application October 19, 1950, Serial No. 191,070
8 Claims. (Cl. 99—404)



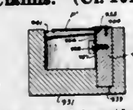
1. In combination in a cooking machine, a container defining a cooking chamber and a searing chamber contiguous therewith, said chambers having therein a quantity of cooking oil through which food may be passed for cooking thereof, a conveyor in said cooking chamber for conveying said food through said oil from one end to the other of a path in said cooking chamber, a pusher in said searing chamber for pushing food from said searing chamber into said cooking chamber for engagement with said conveyor at said one end of said path, a lifter adjacent the other end of said path for lifting said food from said oil upon completion of its conveyance, and means for operating said conveyor, said pusher and said lifter in predetermined timed relation such that said pusher is periodically operated to push said food to said conveyor as aforesaid, and said lifter removes said food from said oil upon completion of its conveyance.

2,643,604
BALE LOADER
Carl Hansen, Calamus, Iowa
Application May 11, 1949, Serial No. 92,569
2 Claims. (Cl. 100—88)



1. For use with a portable baler of the type having an approximately vertical frame, including a pair of laterally spaced-apart frame members, and means for delivering substantially cylindrical bales downwardly along a substantially vertically downwardly movable forming belt, positioned between said frame members, with the axes of the bales, in general, horizontal; the improvement which comprises a bale deflector, including side bars positioned on opposite sides of said forming belt and a transverse structure adapted to extend across in front of said belt, means for securing the side bars of said bale deflector to said frame members in a position therebetween and closely adjacent the discharge portion of said belt with said transverse structure extending downwardly and outwardly from said rear of the forming belt, in order to intercept a bale discharged therefrom, a conveyor frame adapted to be positioned with one end thereof adjacent the lower portions of said frame members and below deflector and in proximity to said belt, said frame extending away and upwardly from said belt and deflector, and means for conveying bales on said frame upwardly along said frame remote from said belt.

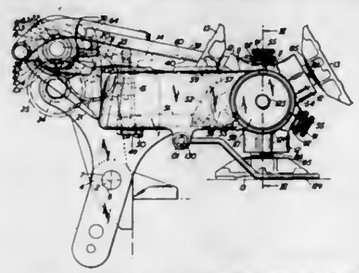
2,643,605
PRINTING EQUIPMENT FOR GUIDING PRINTING PLATES
Walter T. Goliwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Original application August 1, 1946, Serial No. 687,724. Divided and this application June 11, 1948, Serial No. 32,413
7 Claims. (Cl. 101—57)



1. In a printing machine through which a succession of printing plates, each having a longitudinally extending groove formed in one face thereof along a line parallel to and removed from one edge portion thereof, are adapted to be fed, said machine comprising in combination, a magazine for receiving a supply of said plates, printing means to which said plates are to be advanced one by one, guide and holding means defining a path of movement for said plates from the magazine to the printing means, said guide and holding means comprising a horizontally extending channel means in which the said one edge portion of each of said plates is adapted to ride while the plate is being advanced from the magazine to the printing means and also comprising a member presenting a vertical edge for engaging the groove in each of said plates, and feed means for advancing the lowermost one of said plates from the bottom of said magazine accurately on to said guide and holding means.

2,643,606
BED AND PLATEN ADDRESSING MACHINE
Robert Leonard Kerr, London, England, assignor to Adrema Limited, London, England, a British company
Application August 15, 1950, Serial No. 179,504
In Great Britain April 11, 1949
22 Claims. (Cl. 101—65)

1. In an addressing or like printing machine a body mounted for reciprocating movement to and from a printing position, a pad carrier rotatably supported on said body, at least three printing pads mounted on said body at intervals around its axis of rotation, adjustable driving means for effecting partial rotations of said pad carrier upon reciprocating movement of said body, said driving means being effective in one condition of adjustment to cause partial rotations of said pad carrier in opposite directions alternately and in another condition of adjustment to cause unidirectional partial rotations of



said pad carrier, and manually operable control means for adjusting said driving means to either of said conditions.

2,643,607
REGISTRATION MEANS FOR DUPLICATING MACHINES
Carl A. Levin, Park Ridge, and Ored L. Smith, Oak Park, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application February 3, 1950, Serial No. 142,178
14 Claims. (Cl. 101—232)

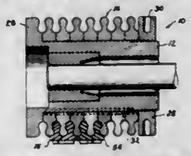
1. In a duplicating machine having a feed roll, a drum and a shaft therefor, means for regulating the registration of a copy sheet as it is fed by said feed roll into operative engagement with said drum, comprising a cam rotating with said drum, a follower for said cam, a gear for driving said feed roll, overrunning clutch means disposed between said gear and said feed roll so as to permit unidirectional rotation of said feed roll, a sector for driving said gear, said follower being adjustably mounted on said sector whereby displacement of said follower by said cam will cause oscillation of said sector, means for adjusting the angular position of said cam with respect to said drum in predetermined increments, said means including a sleeve disposed on the end portion of said shaft, said cam being mounted on the inner end of said sleeve, a manually controlled knob mounted on the other end of said sleeve, and means for locking said knob to the end of said shaft in any one of several predetermined angular positions and means including a manually operated control member for regulating the position of said follower with respect to said sector whereby the cycle of operation of said sector will be shifted with respect to the cycle of operation of said drum in order that the registration of a copy sheet may be regulated without respect to said increments.

2,643,608
PRINTING PLATE SECURING MEANS
Walter T. Goliwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Original application August 1, 1946, Serial No. 687,724. Divided and this application June 11, 1948, Serial No. 32,412
6 Claims. (Cl. 101—369)



1. In combination a printing plate having a marginal plate retaining groove formed in one face thereof and a plate holding frame consisting of a backing element against which said plate may be retained, an overlying element on said frame for retaining said plate in contact with said first named element, groove engaging means projecting from one of said elements into the groove in said plate to prevent lateral displacement of said plate, and means for preventing longitudinal displacement of said plate with respect to said frame.

2,643,609
HOLDER FOR RUBBER TYPE
Ira S. Gottscho, Milburn, N. J., assignor to Adolph Gottscho, Inc., Hillside, N. J., a corporation of New York
Application April 7, 1951, Serial No. 219,867
7 Claims. (Cl. 101—377)



1. In combination; rubber type having a series of like resilient gripping members extending in spaced parallel relationship from the back of the bed thereof, each of said gripping members being formed with a laterally enlarged edge portion so that adjacent gripping members define a channel therebetween opening rearwardly through a resiliently restricted space; and a holder for said rubber type comprising a support, a series of parallel extending like tie knot members carried by said support and movable transversely on the latter, each of said tie knot members being formed of a substantially rigid material and having a gripping portion formed with substantially the same cross-sectional shape as that of said channels and engageable in the latter for holding the rubber type on said support, the distance between the medial lines of said gripping portions of adjacent tie knot members, with the latter abutting, being slightly less than the normal distance between the medial lines of adjacent ones of said gripping members, and means associated with said tie knot members for transversely compacting the latter to thereby compress the gripping members of the type engaged

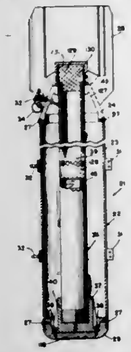
between said gripping portions of the tie knot members so that the latter tenaciously hold said rubber type on said support.

2,643,610

PYROTECHNIC DEVICE

Herbert C. Clauser and Robert S. Long, Westerville, Ohio, assignors, by mesne assignments, to Kilgore, Inc., Westerville, Ohio, a corporation of Ohio

Application May 24, 1947, Serial No. 750,246
1 Claim. (Cl. 102—7)



A pyrotechnic device adapted to be dropped from an aircraft into a body of water and thereafter float in an upright position comprising in combination, an elongated buoyant casing having an open top and a mortar base sealing the entire bottom of the casing, a mortar supported by the base within the casing and sealed therewith at the top of the casing, the peripheral portion of said mortar housed within the casing intermediate the base and top being spaced from the casing to provide a sealed air chamber between the casing and the mortar whereby the assembly is buoyant in water, said mortar base being of sufficient weight whereby the mortar extends vertically when the device is buoyed, an elongated cylindrical projectile contained within said mortar, said projectile having a constant diameter throughout substantially the full length thereof, means for releasably retaining the projectile within the mortar prior to discharging the latter, said means including a removable plug in the upper end of the cylinder and an elongated spacer in said mortar and interposed between the top of the projectile and the bottom of the plug, said projectile containing a powder charge for expelling the projectile from the mortar, a delay fuse for igniting said powder charge housed within the sealed air chamber, and an igniter for firing the fuse.

2,643,611

LARGE GRAIN SMOKELESS POWDER

Alpheus M. Ball, Wilmington, Del., assignor, by mesne assignments, to United States of America as represented by the Secretary of War

No Drawing. Application November 19, 1945, Serial No. 629,710
1 Claim. (Cl. 102—98)

A large smokeless powder grain having an inhibitor strip made of a material selected from the group consisting of ethyl cellulose and cellulose acetate tightly bound to said grain by means of an adhesive region coextensive with the covered surface of the grain, said region being formed by plasticizing a thin layer of the powder and of the strip along this surface with a composition consisting essentially of nitrocellulose dissolved in a high boiling organic compound from the group consisting of diacetone alcohol, mesityl oxide, ethyl acetate, butyl acetate and methyl Cellosolve, said organic compound acting as a mutual plasticizer for the powder and for the material of the inhibitor strip.

2,643,612

FLUID-OPERATED PUMP WITH SINGLE-ACTING DIRECT-CONNECTED BOOSTER PUMP

Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application January 22, 1949, Serial No. 72,108
10 Claims. (Cl. 103—5)



1. In a fluid-operated pumping device, the combination of: a tubular accumulator adapted to be positioned in a well; means providing a pump seat secured to said accumulator; a fluid-operated main pump of the reciprocating type adapted to seat on said pump seat, said main pump being provided with an inlet port; a single-acting, auxiliary pump of the reciprocating type secured relative to said main pump in axial alignment therewith, said auxiliary pump being provided with an intake port adapted to communicate with the well and being provided with a discharge port communicating with said inlet port; means providing fluid communication between said accumulator and said discharge and inlet ports; and means mechanically connecting said auxiliary pump to said main pump for operating said auxiliary pump so as to pump well fluid from the well into said inlet port and said accumulator at a pressure higher than that in said intake port.

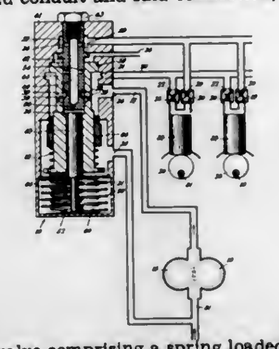
2,643,613

HYDRAULIC PUMP

Roy Westbury, Oldbury, Bridgnorth, and Peter Eric Bray and Edward William Packenham, Compton, England, assignors to Integral Limited, Staffordshire, England, a company of Great Britain

Application May 31, 1950, Serial No. 165,276
In Great Britain June 2, 1949
8 Claims. (Cl. 103—5)

1. A two stage hydraulic pump, comprising a first pumping unit, a second pumping unit including a plurality of radial cylinders, pistons in said cylinders, inlet and outlet valves associated with each of said cylinders, and positively driven means for reciprocating said pistons in said cylinders to cause them to discharge liquid under pressure through said outlet valves, a conduit for supplying liquid under pressure from the first pumping unit to the inlet valves of the second pumping unit, an outlet for receiving the discharge from the outlet valves of the second pumping unit, a connection between said conduit and said outlet, and an off-loading valve, responsive to the delivery pressure in said outlet, for controlling the hydraulic pressure in said conduit and also controlling communication between said conduit and said connection, said off-



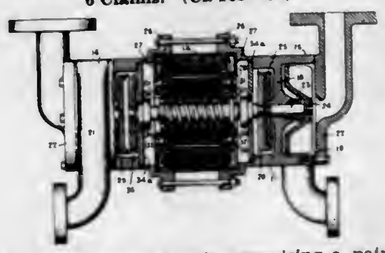
loading valve comprising a spring loaded member controlling a port for initially allowing liquid to flow from said conduit into said connection, said member being arranged to close said port in response to increase in the delivery pressure to a first predetermined value, a pair of spring loaded washers constituting successive abutments for said member, as it moves in response to further increase in the delivery pressure, said abutments yielding successively at predetermined higher values of the delivery pressure, to permit of stepwise movement of the member, and a spring-loaded sleeve surrounding said member and serving, in response to movement thereof, to effect progressive opening of a relief port to reduce, in steps, the hydraulic pressure prevailing in said conduit.

2,643,614

MOTOR-DRIVEN DUAL PUMPING UNIT

Frank A. Rosenkrans, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application September 28, 1949, Serial No. 118,366
6 Claims. (Cl. 103—87)



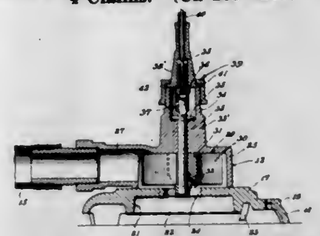
4. A dual pumping unit comprising a pair of pumps designed to pump at respectively different directions of rotation, a clutch device individual to each pump and having clutch elements engageable or disengageable by appropriate axial movement of one of said elements relative to the other, a drive shaft common to said clutch devices, said shaft having a helically threaded portion disposed intermediate its end, and a reversible motor having a stator fixed relative to said shaft and a rotor carried by said shaft, said rotor being cooperatively threaded having a relatively free fit with said shaft threading and mounted to preclude axial movement relative to said drive shaft, whereby the rotor imparts an axial thrust to said shaft.

2,643,615

CENTRIFUGAL PUMP WITH CENTER INTAKE

Raymond J. Murphy and Edward H. Smith, Brooklyn, N. Y.

Application September 1, 1948, Serial No. 47,284
4 Claims. (Cl. 103—103)



1. In a rotary sump pump construction or the like adapted for operation by means of a power source and a flexible shaft having detachable ends for connecting the power source with said pump; said rotary pump comprising a hollow base, including means for spacing the base from a fixed support, means provided in the base to facilitate removable association thereof with a fixed support; said base having at its interior a recess and an inlet passage concentric with the recess, a strainer covering said recess and attaching lugs arranged along the edges of the recess for holding the strainer over the recess; an impeller housing removably secured to said base, a central enlargement projecting from the housing, a central recess in said enlargement, and impeller shaft journaled and suspended within that central recess of said enlargement, a pin passing through the upper shaft end within said recess and being operatively suspended at the bottom of the recess and limiting the downward movement of the shaft, the lower end of the shaft projecting through said inlet passage into the recessed base; an impeller operative in said housing and having a hub reducing in size and extending with its reduced end into said inlet passage, said impeller shaft passing through said impeller hub, and means for detachably securing said hub to said shaft and being accessible through said inlet passage to facilitate positioning of the impeller in respect to the shaft.

2,643,616

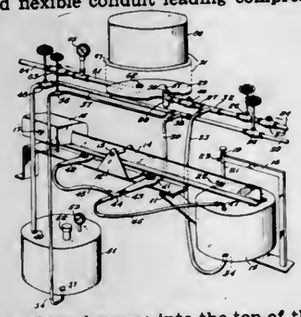
PRESSURE JET APPARATUS

Dewey M. Paxton, Phoenix, Ariz., assignor to Industrial Research, Inc., a corporation of Arizona

Application October 14, 1946, Serial No. 703,236
3 Claims. (Cl. 103—243)

1. Apparatus for delivering a continuous stream of water with intermittent pulses of high pres-

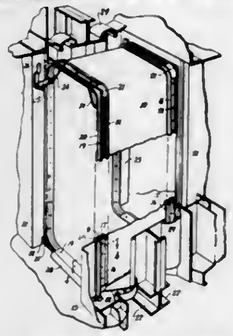
sure, including: conduit means for leading a continuous stream of water from an external source of supply to the apparatus and delivering water from the apparatus for use; check valve means in said conduit means preventing reverse flow of the water in said conduit means; valve means for controlling the supply of water to said conduit means; a pivotally supported beam; a closed tank supported on said beam and spaced from the pivot thereof; means constantly acting to urge said beam to a position in which said tank is raised when relieved of water; a first flexible conduit connecting said conduit means and the bottom of the tank, and serving to lead water at times from, and at other times to said conduit means; a second flexible conduit leading compressed air



from an external source into the top of the tank; and valve means controlling the flow of compressed air through the second flexible conduit and operated by the movement of the beam to admit compressed air through the second flexible conduit to the tank when the tank is in lowered position to expel the water therefrom through said first flexible conduit, and to connect the top of the tank to the atmosphere when the tank is in raised position, the alternate lowering of the tank due to the weight of the water flowing into it and raising of the tank due to the expulsion of water therefrom being automatically and continuously effected to impart a continuous series of high pressure pulses to the stream of water issuing for use from the apparatus.

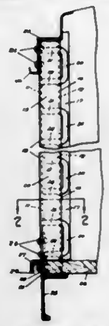
2,643,617
PASSAGEWAY ENCLOSURE FOR RAILWAY PASSENGER CARS
Karl F. Nystrom, Nashotah, and Leonard L. Lentz, Milwaukee, Wis.
Application June 25, 1949, Serial No. 101,354
3 Claims. (Cl. 105—15)

1. A passageway enclosure between aligned railway cars comprising, in combination with vertically disposed frame members at opposite sides of the passageway opening in the car or vestibule end wall of each car and above the car platform, and open top sockets adjacent the bottom of said members; a continuous elastic tube whose ends are folded back on themselves; a pair of continuous rectangular frame forming metallic strips, at each end of the tube provided with longitudinally arranged offset surfaces for gripping the folded ends of the tube therebetween, the lower outer corners of said metallic frame having outwardly disposed projections adapted to extend into said sockets on the car frame and thereby support the lower part of the tube in place, while the upper corners of said metallic frame and within the tube are provided with rigid hand-grasp forming braces, means whereby said frame members and intervening folded tube ends are rigidly secured together; crank-like levers pivotally secured at an end to a vertical face of said car frame members at opposite sides of the passageway; and a hook member eccentrically pivoted on



said levers and adapted to engage said braces whereby the tube upper ends are drawn into weather sealing relation with the car frame members and secured in snug relation therewith when said levers are swung vertically.

2,643,618
LADING STRAP ANCHOR
Clarence R. Jones, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application July 14, 1951, Serial No. 236,800
7 Claims. (Cl. 105—369)

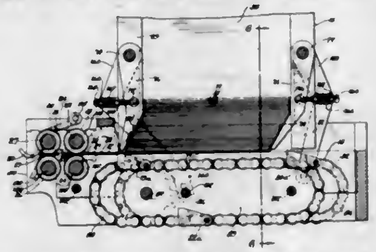


1. In a railway freight car having a side wall embodying a post provided with transversely spaced substantially longitudinally extending flanges, a U-shaped lading strap anchor on said post, the bight of said anchor being disposed in inwardly spaced relationship to the inner of said spaced flanges, the legs of said anchor extending through said latter flange substantially to the other of said flanges, and weld material securing said legs to said spaced flanges.

2,643,619
SEVERING MECHANISM
Gay Monroe Bonebrake, Chicago, Ill., assignor to Wm. Wrigley, Jr. Company, Chicago, Ill., a corporation of Delaware
Application July 5, 1949, Serial No. 102,986
14 Claims. (Cl. 107—7)

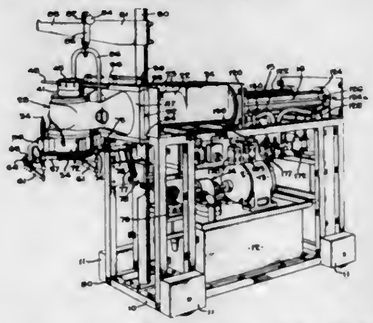
1. A mechanism for severing scored sheets or slabs of material into pieces of predetermined

size and comprising, in combination, a hopper having a top opening for receiving a stack of scored sheet material, said hopper being of a size and disposition such that said material is normally maintained in an orderly stack and tends to gravitate therethrough, means for releasing one sheet of material at a time from the bottom of the hopper, a chain-type feeding mechanism for receiving the sheets of material from the hopper, said mechanism having one end just beyond one end of the hopper, a pair of feed rollers located just beyond said one end of the chain-type feeding mechanism for receiving and gripping each sheet of material from the chain-type feeding mechanism, a second pair of rollers on the opposite side of the feed rollers



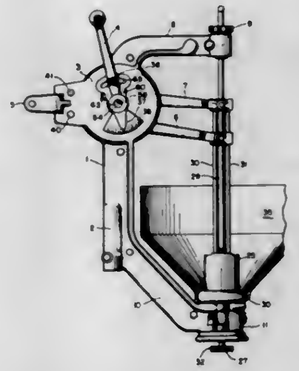
from the chain-type feeding mechanism and disposed in predetermined spaced relationship to the feed rollers to grip the sheet material as it is fed thereto by the latter mentioned rollers, and a driving mechanism for driving the chain-type feeding mechanism, said feed rollers and the second pair of rollers at different and related surface speeds, said feed rollers having a surface speed somewhat greater than that of the chain-type feeding mechanism so as to effect movement of each gripped sheet of material relative to the chain-type feeding mechanism in the direction of travel of the sheet, the surface speed of the second pair of rollers being materially faster than that of the feed rollers so that the material is severed into pieces between the pairs of rollers.

2,643,620
EXTRUSION DEVICE
Leonidas C. Miller, Los Angeles, Calif.
Application November 22, 1948, Serial No. 61,419
21 Claims. (Cl. 107—14)



7. In a device of the class described having an extrusion head provided with a passageway, the combination of: a plurality of reciprocating feed means each operatively connected to deliver material into said passageway, each of said means having a check valve associated therewith automatically acting to prevent return movement of material into the feed means; power means for sequentially actuating said feed means; and timing means associated with said power means adapted to maintain pressure on one feed means at the end of its operative stroke until that pressure is substantially equalled by the pressure on another feed means, whereby the pressure in said passageway is maintained substantially constant throughout the operating cycle of the feed means.

2,643,621
DOUGH FORMER
Thomas E. Belshaw, Seattle, Wash.
Application January 18, 1947, Serial No. 722,904
8 Claims. (Cl. 107—14)

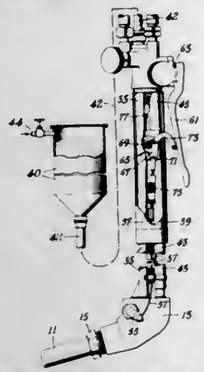


1. A dough dispensing machine having: a forming cylinder and a metering sleeve co-acting therewith, said cylinder and sleeve being relatively movable axially, a forming piston movably mounted in said forming cylinder and rigidly secured to said metering sleeve, and finger and guide means therefor to hold such cylinder and sleeve in alignment as relative movement therebetween brings them into adjacency.

2,643,622
BLOWPIPE
Edward Meincke, Summit, N. J., and Hugh T. Smith, Chicago, Ill., assignors to Union Carbide and Carbon Corporation, a corporation of New York
Original application April 21, 1943, Serial No. 483,874. Divided and this application February 26, 1948, Serial No. 11,195
2 Claims. (Cl. 110—22)

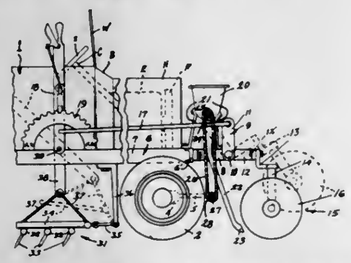
1. In a blowpipe having a handle, a head having a plurality of passages therein, a first conduit extending from a first one of said passages back through said handle for supplying gas to such first passage, and a second conduit in communication with a second one of said passages for supplying powder thereto; a first valve in said handle for controlling said first conduit; a second valve in said head for controlling said second conduit; a lever extending from said handle for operating said first valve; reciprocable valve ac-

tuating means extending from said handle to said second valve; and means linking said lever to said



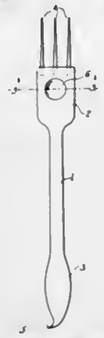
reciprocable means whereby movement of said lever results in movement of said second valve.

2,643,623
SEEDING MACHINE
Mark Soss, Spokane, Wash.
Application November 10, 1949, Serial No. 126,551
1 Claim. (Cl. 111—61)



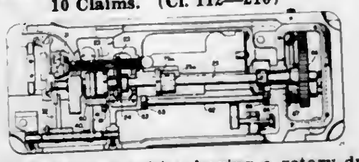
An agricultural implement constituting an attachment for a motor vehicle having a chassis, a power take off and front and rear wheels, said implement comprising a flat frame having side bars of a length adapting them to be mounted longitudinally of the motor vehicle along opposite sides thereof and to project forwardly therefrom, brackets projecting forwardly from front ends of said side bars, a rock shaft extending across the front of said frame and rotatably supported forwardly thereof by said brackets, arms projecting forward from end portions of said rock shaft, furrow opening means carried by and extending downwardly from the front ends of said arms, a lever arm projecting upwardly from said rock shaft, a latch lever pivotally mounted upon and projecting upwardly from the rear portion of said frame, a rod connecting said latch lever with said lever arm, a seed container mounted over the front portion of said frame and having means for feeding seed to delivery ducts extending downwardly therefrom with their lower ends disposed rearwardly of the furrow opening means, said feeding means of the seed container including a rotary shaft and means for transmitting rotary motion to the rotary shaft from said power take off of the motor vehicle, depending brackets carried by said side bars rearwardly of the front wheels of the motor vehicle, a harrow disposed rearwardly of said depending brackets and loosely connected therewith by draft links, and supporting links loosely carried by and extending downwardly from the latch lever and connected with front and rear portions of said harrow and suspending the harrow below the latch lever.

2,643,624
SEWING MACHINE FEEDING DEVICE
Jean E. Sanford, Los Angeles, Calif.
Application September 3, 1949, Serial No. 113,959
1 Claim. (Cl. 112—203)



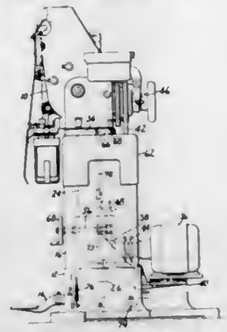
In a device for feeding material to the needle of a sewing machine, an elongated flat body having a head portion wider than the major length of the body, said head portion of the body being provided with a gripping depression in a face thereof, and a plurality of straight rigid prongs of circular cross section fixed to and projecting longitudinally from the outer end edge of said head portion and in a plane coincidental with the plane through the flat body, said prongs being spaced apart transversely of the body.

2,643,625
WORK FEEDING MECHANISM FOR SEWING MACHINES
George M. Reimer, Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application March 21, 1950, Serial No. 150,843
10 Claims. (Cl. 112—210)



1. In a sewing machine having a rotary drive shaft and a work feeding device, connections from said drive shaft to said device for operating the latter which comprises a pair of eccentric elements telescopically arranged on said shaft and adapted for relative rotation to vary the eccentricity of the outer element with respect to said shaft, a member surrounding portions of said elements and secured to said shaft, and a coil spring surrounding said shaft within said member and coacting with said elements to urge the same axially in opposite directions, said member having portions opposing such axial movement of said elements.

2,643,626
SHOE MACHINE FRAME
Alfred R. Morrill, deceased, late of Woodstock, Vt., by Ruth W. Morrill, administratrix, Woodstock, Vt., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 10, 1949, Serial No. 92,407
10 Claims. (Cl. 112—258)



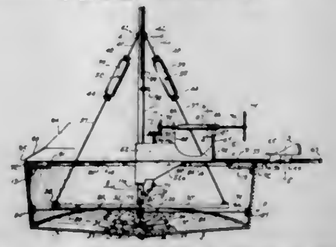
1. A fabricated frame for a machine of the type described, having a rigid base, a hollow column of relatively flexible sheet metal resiliently mounted on the base, a rigid post within the column of substantially smaller size than the internal cross-sectional area of said column to provide vacant space about the post in the column, and a bearing sleeve resiliently mounted on the upper portion of the column fitting the post to enable sliding movement of the post in the sleeve, in combination with means for releasably clamping the post to the sleeve disposed wholly within the space in the column to eliminate external appendages on said column, and a second bearing sleeve secured to the base for receiving the lower end of the post which passes loosely through it to limit the yielding action of the column on the base.

2,643,627
METHOD OF PRODUCING CUSHION IN SEAMS OF CONTAINERS
Delbert E. Wobbe, Maywood, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 28, 1950, Serial No. 203,075
2 Claims. (Cl. 113—120)



1. A method of hermetically sealing double seams formed between flanges of metal container bodies and metal covers where the bodies have side seams terminating in lapped sections producing angularly disposed projecting steps in the body flange layers of the double seam adjacent the radially outer layer of the cover flange, said method comprising application of a resilient gasket between said body and cover flanges, interfolding said flanges into a loose double seam with the gasket confined between the two radially outer layers thereof, and radially compressing said loose seam above and below said angularly disposed steps leaving the intermediate portion of said radially outer layer less compressed, thus bulging said outer layer outwardly and producing a substantial recess inwardly of said outer layer between said compressed sections, said compressing action simultaneously forcing portions of the resilient gasket into said recess to build up an extra thickness of the gasket material and pressing it against said angularly disposed steps to hermetically seal any interstices at said steps.

2,643,628
SAILBOAT CONSTRUCTION
Louis Sveinsson, Baltimore, Md.
Application August 24, 1950, Serial No. 181,169
4 Claims. (Cl. 114—39)



1. In a boat construction, a pivotally mounted step, a mast rising rigidly from said step, radial arms projecting outwardly from the lower end of the step, means pivotally mounting the step on the bottom of the boat so that the mast may rock transversely of the boat, a horizontal bar extending from one side of the boat to and through an opening in the step and terminating in a downwardly curved portion at one side of the mast, a second bar extending from the other side of the boat to the step and in flat engagement therewith and terminating in a downwardly curved portion beyond the other side of the mast, a base plate in the boat secured to the bottom thereof, means pivotally connecting the free ends of the curved portions in spaced relation on the base plate, links having the ends thereof pivotally connected to the arms and to adjacent curved portions of the bars and a stay connecting the outer free end of each bar with an upper portion of the mast.

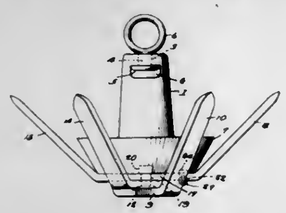
2,643,629
BOAT ANCHOR
Frederick W. Huck, Evansville, Ind.
Application March 26, 1952, Serial No. 278,590
1 Claim. (Cl. 114—206)



A boat anchor of the character specified, comprising a relatively long upper shaft, a shorter lower shaft, a concave disc carried by the outer end of the lower shaft, a universal joint between the adjacent inner ends of the longer and shorter shafts, a tubular housing for said universal joint and associated parts, a loop carried by the upper end of said tubular housing, a rope attached at one end to said loop, a collar carried by the lower end of the longer shaft and fitting against the corresponding end of the tubular housing, a

sleeve slidably mounted on the longer shaft and co-acting with said collar, a coil expansion spring encircling the longer shaft with one end bearing against said sleeve, a nut screwed on the upper end of said longer shaft for regulating the tension of said expansion spring and a collar screwed on said longer shaft and formed with a right-angularly bent loop through which said rope passes before connected to the boat.

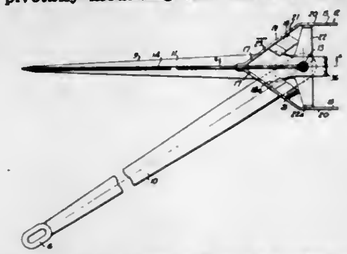
2,643,630
ANCHOR
Herman H. Buck, Grand Rapids, Minn.
Application July 24, 1950, Serial No. 175,531
2 Claims. (Cl. 114—207)



1. An anchor comprising an elongated solid body, a ring carried by said body adjacent one end thereof, a frusto-conical base integral with the body at the end thereof remote from the ring, said frusto-conical base diminishing in cross-section as it recedes from the body, the base having an axial internally threaded recess entering the end thereof remote from the body, an elongated anchor bar, divergent flukes carried by said anchor bar at opposite ends thereof, a stem carried by said anchor bar immediate the ends thereof, said stem projecting perpendicularly from the anchor bar midway between the flukes, a threaded head on the stem remote from the anchor bar and threadedly engaging the threads of the threaded recess in the base to hold the anchor bar on the base and the flukes in upwardly and outwardly disposed relation to the body, outwardly extending ribs carried by the anchor bar on opposite sides of the stem between the flukes, a second elongated anchor bar mounted intermediate its ends on the stem between the first mentioned anchor bar and the base, divergent flukes carried by the second mentioned anchor bar at opposite ends thereof, and said second mentioned anchor bar having elongated grooves therein opening thereinto from the side thereof remote from the flukes for receiving the ribs and holding the anchor bars against relative rotation.

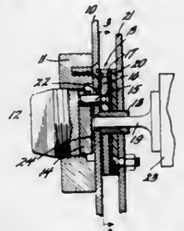
2,643,631
ANCHOR
Richard S. Danforth, Berkeley, Calif., assignor to Robert H. Eckhoff, Piedmont, Calif., as trustee
Application September 10, 1946, Serial No. 696,001
9 Claims. (Cl. 114—208)

1. An anchor of the twin fluke type comprising a shank having a forward and an after end with a cable attachment at its forward end; a pair of flukes; a crown at the after end of said flukes comprising two plates, each of said plates sloping upwardly and rearwardly from the fluke faces to terminate in a plate portion extending rearwardly beyond the flukes and substantially parallel to the plane of the flukes; spacers joining the plate portions together; and a stock mounted in said spacers and joined to the pair of flukes and pivotally mounting said flukes at the after



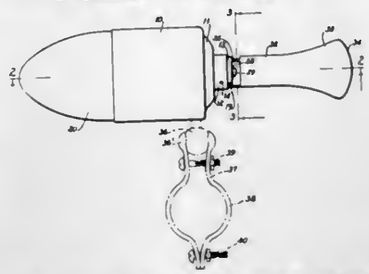
end of said shank with the flukes extending forwardly from the stock.

2,643,632
COAXIAL DIAL LOCKING DEVICE
Ross M. Sigmon, Jr., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 6, 1950, Serial No. 188,711
5 Claims. (Cl. 116—129)



1. A device for locking a dial, comprising a hollow control knob secured to the dial, a stationary friction plate, a movable friction plate slidably connected to the dial and mounted parallel to the stationary plate, and means concentrically movable in the hollow of said control knob to actuate the movable friction plate parallelly toward the stationary friction plate to cause full area contact therebetween to lock the dial against movement.

2,643,633
PNEUMATIC HORN OR SIGNAL
Lawrence Abbondandolo, Brooklyn, N. Y.
Application March 12, 1949, Serial No. 81,055
14 Claims. (Cl. 116—139)



1. The combination with a hollow cylinder, having one of its ends open and a centrally

apertured end wall at its opposite end, of an outwardly projecting flange fixed to the outer face of the end wall of the cylinder to define and surround the central aperture therein, a bearing plate permanently secured to the inner face of said end wall provided with a central aperture registering with the aperture of the end wall and with a plurality of air passages disposed radially about said aperture, each passage at its opposed ends communicating with the space defined by said flange and with said cylinder, a compressor mounted for reciprocation in the open end of said cylinder embodying a piston having sealing contact with the inner surface of the cylinder, a piston rod affixed centrally to the piston of the compressor and extending through the central aperture of the bearing plate, a compression spring interposed between the end wall of the cylinder and the piston of the compressor to normally move the latter in a direction outwardly of the cylinder and away from said end wall, a tube fixed to and projecting outwardly from the flange on the end wall of the cylinder pierced by an opening in its wall near said flange and having its opposite end portion flared outwardly, a permanent closure sealing the extremity of the flared end portion of the tube, a disc mounted in the tube adjacent the opening in the wall thereof, with its periphery spaced from the surrounding structure, said disc having a central aperture in axial alignment with the apertures in the end wall of the cylinder and in the bearing plate for the reception and passage of the piston rod of the compressor, and means on the extremity of said piston rod externally of the disc to limit the movement of said rod and attached compressor outwardly of the open end of the cylinder under the influence of the aforesaid spring.

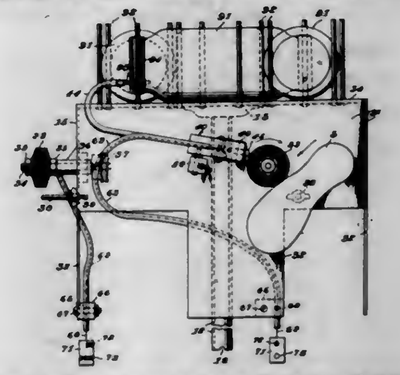
2,643,634
SOUND DEADENER FOR SIGNALING DEVICES
Marion Joseph Hoyka, West Des Moines, Iowa
Application March 3, 1952, Serial No. 274,641
5 Claims. (Cl. 116—149)



1. In a sound deadening device for a housed signal unit having a pair of bells, a clapper for sounding the bells and an opening in said housing, a wedge head member having two forked resilient legs, said wedge head member insertable through said opening so as to wedge between said clapper and one of said bells, and said forked legs frictionally engaging the edge of said opening to hold said wedge in its wedged position.

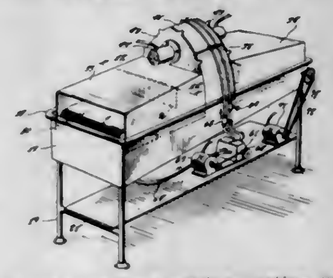
2,643,635
MACHINE FOR INKING THE EDGES OF SHOE SOLES AND HEELS
George S. Shaak, Lebanon, Pa.
Application May 23, 1952, Serial No. 289,598
10 Claims. (Cl. 118—255)

1. A machine for inking the edges of shoe soles and heels and comprising a vertically disposed pedestal supporting a control treadle at an operator's station, power-operated drive means supported by the pedestal, a horizontal rectangular table rotatably supported on a vertical axis by said pedestal, an ink assembly supported by each side of the table cooperating with a respective reservoir and including a rotatable ink-applying



brush, and drive means for each brush adapted to operatively engage said power-operated drive means upon rotation of said table to bring any one of said inking assemblies into position at said operator's station.

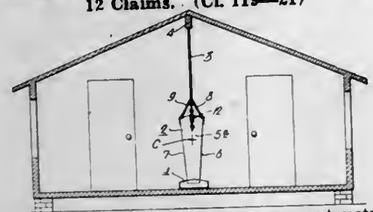
2,643,636
CENTRIFUGAL COATING APPLYING MACHINE
Alois Bauer, Brooklyn, N. Y.
Application July 2, 1951, Serial No. 234,733
1 Claim. (Cl. 118—316)



In a machine for applying coating material upon articles and having a tank with a driven conveyor mounted in the tank having an upper exposed carrying surface at the upper level of said tank, the combination, with a hollow hood mounted upon the tank intermediate the ends thereof and above said conveyor, power driven flinging elements rotatably mounted upon an axis disposed substantially in the direction of movement of the said conveyor beneath said hood above said conveyor for spraying the coating material upon articles passed beneath said elements upon said conveyor, means for supplying the coating material under pressure to the flinging elements, and movable means for closing off the ends of the material applying zone beneath said hood upon said conveyor allowing articles to enter said zone while traveling upon said conveyor and to leave said zone after having been sprayed with the coating material from said flinging elements, wherein the flinging elements are two in number and are spaced apart transversely

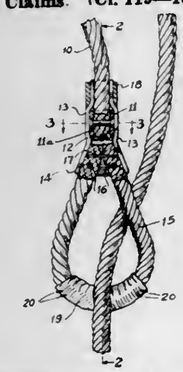
of the longitudinal direction of the conveyor and mutually directed in opposite directions toward the sides of said high dome portion of the hood.

2,643,637
POULTRY FEEDER
Elmer Lewis, Eustis, Fla.
Application August 18, 1950, Serial No. 180,198
12 Claims. (Cl. 119—21)



1. In a poultry pen having a superstructure, a feeder unit consisting of a portable shallow receptacle constituting a base member for dispensing the feed to the poultry; a second member suspended independently above and in alinement with said base member, the lower end of said second member being spaced from the sides of the receptacle at such a distance to permit the fowl to insert their heads into the feeding receptacle, yet close enough to exclude the entry of any other portions of their body, the upper face of said second member being inclined to prevent the fowl from roosting thereon and being substantially coextensive with the base; suspension means extending vertically from the upper part of the second member to the superstructure of the pen; and partition means in operative association with said suspension means and extending substantially continuously from the top of the second member to the said superstructure to afford with said member an effective division of the space within the pen separating one side of the feeder unit from the other side.

2,643,638
SWIVELED HONDOO
Joseph F. Villmer, Los Angeles, Calif.
Application November 26, 1951, Serial No. 258,273
2 Claims. (Cl. 119—153)



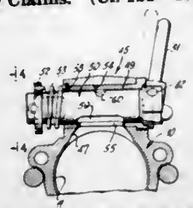
1. The combination with a rope of, a ferrule secured on one end of said rope, a two part housing, split lengthwise, mounted for rotation on said ferrule, a sleeve enclosing the upper end of the two part housing and a hondoo secured to said two part housing.

2,643,639
REFILL UNIT FOR BALL POINT PENS
Paul R. Kuhn, St. Louis County, Mo., assignor to Ritepoint Co., St. Louis, Mo., a corporation of Missouri
Application November 20, 1950, Serial No. 196,594
7 Claims. (Cl. 120—42.4)



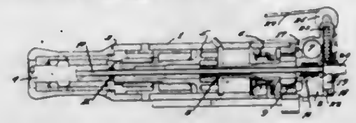
1. In a ball point pen, a head having a ball point tip with a ball rotatably mounted in said tip and a bore extending through said head to said ball, an ink container attached to said head adapted to supply ink to said bore, and an agitator loosely mounted in said bore for free movement longitudinally and laterally with respect to said bore and container, and extending from said container to a point adjacent said ball.

2,643,640
BLOWER VALVE CONTROL ARRANGEMENT
Earl B. Lear, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application January 28, 1950, Serial No. 141,083
10 Claims. (Cl. 121—10)



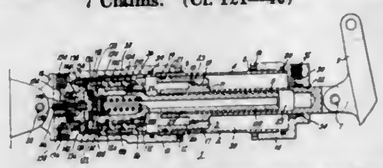
1. In a rock drill, a blower valve control arrangement comprising a bushing having a plurality of slots, a cylindrical valve member rotatably arranged within the bushing and having a pair of grooves disposed in opposition on the periphery thereof, handle means pivotally affixed to the valve member and engageable with end slot means on the bushing to positionally maintain the valve in either of two positions, one of which aligns the bushing slots and the valve grooves whereby the drill is conditioned for blowing operation, the other of which aligns the bushing slots and valve grooves whereby the drill is conditioned for drilling operation, and adjustable resilient means one part of which is affixed to the bushing another part of which engages the valve member to provide for moving said valve member from blowing position to drilling position upon manipulation of the handle means.

2,643,641
ROCK DRILL
Mervin C. Huffman, Denver, Colo., assignor to Gardner-Denver Company, Quincy, Ill., a corporation of Delaware
Application May 13, 1950, Serial No. 161,767
7 Claims. (Cl. 121—10)



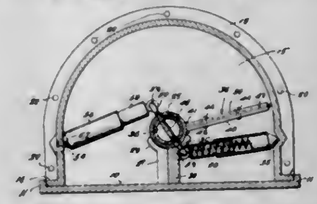
1. A fluid operated drill comprising a casing, a backhead closing the rear end of the casing having connected thereto a fluid supply, a hollow drill steel supported within the front end of the casing, a tube extending from the backhead into the steel, a fluid operated hammer surrounding the tube and movable within the casing to impart blows to the steel, passageways within the backhead leading from the supply to and adjacent the tube, a movable element directing fluid to the tube and steel to blow cuttings from the hole being drilled, and said element movable to a position establishing communication between said tube and atmosphere, permitting fluid adjacent the tube end to pass thereover creating a suction within the tube and steel to draw the cuttings upwardly through the tube and steel to atmosphere.

2,643,642
FLUID PRESSURE ACTUATOR AND LOCKING MEANS THEREFOR
Howard M. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 27, 1952, Serial No. 278,844
7 Claims. (Cl. 121—40)



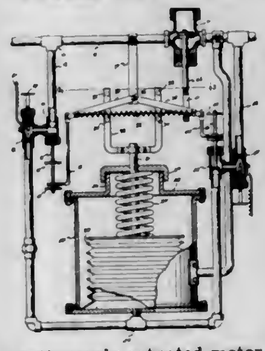
1. In an actuator of the type having a cylinder and a piston disposed in said cylinder and mounted for reciprocal movement therein under the urge of fluid pressure, movement of said piston being dependent upon rotation of a shaft operatively connected to the piston, locking means operatively connected with said shaft for preventing rotation of said shaft and consequent reciprocal movement of said piston, and fluid pressure operated means for releasing said locking means to permit rotation of said shaft and consequent reciprocal movement of said piston upon the application of fluid pressure to either side of said piston, said locking means comprising a locking collar anchored to said cylinder, a locking ring operatively connected with said shaft, said locking collar having an axially extending skirt and an oppositely extending flange provided with a plurality of radially extending teeth, said locking ring having a plurality of radially extending teeth disposed in contiguous relation to the teeth of said locking collar, and resilient means normally maintaining said teeth in engagement, said release means comprising a cylinder having side walls and an end wall formed by the axially extending skirt of said locking collar, a piston disposed in said cylinder and mounted for reciprocal movement therein, and means integral with said piston for moving said locking ring axially relative to said locking collar to disengage said teeth upon application of fluid pressure to one side of said lock release piston.

2,643,643
HYDRAULICALLY OPERATED SPRINKLER
Lewis R. Swank, Lewiston, Idaho
Application November 10, 1950, Serial No. 195,055
2 Claims. (Cl. 121—99)



1. A device of the character described comprising a housing, a supply pipe revolubly and horizontally disposed in said housing, a fin affixed to said supply pipe and snugly fitting the inner walls of said housing and adapted to oscillate in said housing, valves for alternately supplying fluid to opposite sides of said fin to oscillate the same, and means for absorbing conventional shock at the end of each oscillation of said fin, said means including a pair of shock absorbers each extending outwardly from said pipe at opposite sides of said fin and each bearing against the inner walls of said housing and each composed of an outer cylinder, an inner cylinder longitudinally slidable in said outer cylinder, and a compression spring encompassed by said inner and outer cylinders, said outer cylinders each having a conical outer end and said inner walls of the housing having outwardly extending indentations for receiving said conical outer ends therein.

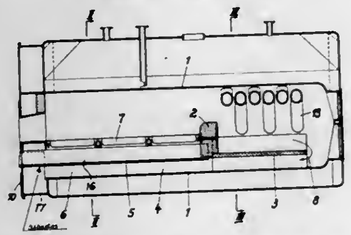
2,643,644
PRESSURE GOVERNED TIME VALVE
Walter C. Way, Burke, Idaho
Application November 26, 1947, Serial No. 788,101
2 Claims. (Cl. 121—164)



1. In a continuously actuated motor, the combination which comprises a horizontally disposed main pipe line, an enclosed vertically disposed housing positioned below said main pipe line, a bellows in said housing, a rod extended from the

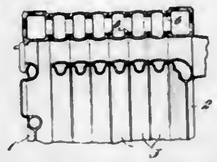
bellows upwardly through the upper end of the housing, a U-shaped member having spaced upwardly extended legs mounted on the upper end of the rod, a strip for use on a main pipe line and adapted to be positioned in alinement with the rod extended from the bellows and whereby the extended end thereof extends downwardly, toggle acting levers pivotally mounted on the said strip, inlet and outlet connections extended from the housing and communicating with the interior of the bellows therein, valves in said connections, means actuating said toggle acting levers by the legs of the U-shaped member extended upwardly from the rod extended from the bellows, means closing the valve of the inlet connection and opening the valve of the outlet connection as the rod extended upwardly from the bellows reaches the limit of its upward movement, a spring in the housing for urging the bellows and rod extended therefrom downwardly, means actuating the valves of the inlet and outlet connections by the toggle levers whereby the valve of the inlet connection is opened and the valve of the outlet connection closed as the said rod reaches the end of its downward travel, said inlet and outlet connections extended to said main pipe line and connected thereto at points on opposite sides of a main valve of the main pipe line, means for actuating said main valve with one of said toggle levers, and adjusting valves in the said inlet and outlet connections for regulating the flow of fluid through the said connections.

2,643,645
HORIZONTAL FLUE BOILER WITH COMBUSTION PREHEATER
Theodor Kleinen, Duisburg, Germany
Application February 23, 1952, Serial No. 273,119
In Germany August 4, 1950
1 Claim. (Cl. 122—1)



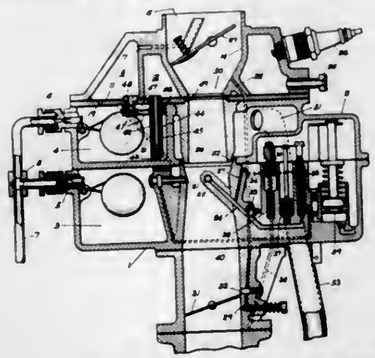
In a fire tube boiler, in combination, an elongated, horizontal tank, a cylindrical flue horizontally disposed inside said tank and extending from the front toward the rear of the latter, said flue having an open front end and a closed rear end, grate means in said flue extending rearwardly from said front end thereof, arcuate partition means inside said flue forming a segmental first duct immediately below said grate means and a crescent-shaped second duct below said first duct, a fire bridge back of said grate means blocking said first duct and deflecting air, entering said first duct from said open front end, upwardly through said grate means, and baffle means back of said fire bridge in line with said partition means and forming a rearward extension thereof, said extension terminating short of said closed rear end, thereby forming a passageway for flue gases returning to said front end by way of said second duct, said flue gases preheating said air upon passing below said arcuate partition means.

2,643,646
PUSH NIPPLE
William J. Dunn, Westfield, Mass., assignor to The H. B. Smith Company, Incorporated, Westfield, Mass., a corporation of Massachusetts
Application August 18, 1948, Serial No. 44,928
8 Claims. (Cl. 122—231)



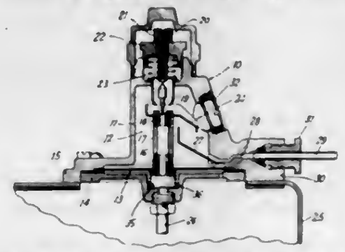
1. A cast iron sectional boiler comprising sections and connecting push nipples, adjacent sections having axially aligned, conically tapered ports for the reception of the ends of the push nipples, each nipple having an axial bore of substantially uniform diameter, the peripheral surface of the nipple at opposite sides of its transverse mid-plane being convexly curved in longitudinal section, the diameter of each convexly curved portion progressively increasing toward said midplane, the minimum diameter of each convexly curved portion being less than the diameter of the larger end of the port, and the maximum diameter of each convexly curved portion being greater than the diameter of the larger end of the port, the nipple having a pilot portion at each end of a diameter slightly less than the diameter of the smaller end of the port.

2,643,647
MULTIFUEL CARBURETOR
Andre J. Meyer, Lexington, Ky., and Ralph E. Davis, Jamestown, Ind.; said Davis assignor to Joseph E. Seagram & Sons, Inc., Shively, Ky., a corporation of Indiana
Application August 3, 1948, Serial No. 42,298
16 Claims. (Cl. 123—127)



1. A liquid fuel carburetor for an internal combustion engine comprising: a fuel charge forming conduit having an opening for admission of air, and adapted to be connected to the engine, said conduit having means for aspirating fuel to produce a fuel charge: a throttle valve between said means and the engine to control the fuel supplied to the engine; means on the upstream side of said throttle valve for producing a low pressure zone responsive to air velocity; a conduit adapted to connect said zone with the exhaust line to the engine for introducing exhaust gas; and a second conduit communicating between said fuel charge forming conduit on the opposite side of said throttle valve and the exhaust line of the engine for introducing exhaust gas.

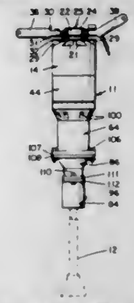
2,643,648
LIQUID FEEDING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
William C. Pierce, New Canaan, Conn., assignor to Emerol Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois
Application June 2, 1950, Serial No. 165,698
4 Claims. (Cl. 123—196)



1. A device for feeding liquid from a source of supply thereof to the cylinders of an internal combustion engine or the like, said device comprising a casing, valve means for regulating the flow of said liquid to said cylinders, a diaphragm of thin resilient metal transversely disposed in said casing and retained therein around its marginal edges, said diaphragm being connected to said valve means and moved by the suction created by the displacement of the pistons of said engine for automatically adjusting the opening of said valve means so as to draw said liquid through said opening into said cylinders in an amount depending upon said suction, said casing being formed with an outlet for admitting said suction into said casing and on one side of said diaphragm so as to urge it in one direction and a spring disposed on the other side of and acting against said diaphragm so as to maintain it normally flexed in the same direction as urged by said suction, said diaphragm being free of any external opposing spring force urging it in the opposite direction.

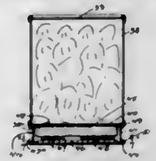
2,643,649
ELECTRIC TIE TAMPER
Lawson Tarwater, Redlands, Calif., assignor to Tarwater Railway Supply Co., a corporation of California
Application August 20, 1949, Serial No. 111,421
1 Claim. (Cl. 125—31)

In an electric tamping machine, a motor housing having handle means thereon at its outer end, a gear housing secured to the inner end of said motor housing, a motor in said motor housing having a shaft projecting into said gear housing, a gear plate at the end of said gear housing farthest from said motor housing, a cam housing beyond said gear plate and secured to said plate and said gear housing, a drive shaft rotatably supported in said cam housing and extending into said gear housing, gear means connecting said motor shaft and said drive shaft, a striker housing secured to the end of said cam housing, a striker bar mounted in said striker housing for axial movement, said bar projecting into said cam housing, a cam carried by said bar having a circular cam track facing said drive shaft, a cam follower on said drive shaft for operative engagement with said cam, a spring in



said cam housing urging said cam toward said drive shaft, and means beyond said striker bar for attaching a tamping tool for abutting end-to-end relation to said striker bar.

2,643,650
FOOD CONTAINER AND HEATING MEANS THEREFOR
Jacques Miron, St. Laurent, Quebec, Canada
Application June 7, 1950, Serial No. 166,653
2 Claims. (Cl. 126—262)



1. In a container for food and heating means therefor, a metal container having a food product hermetically sealed therein, means for heating said container and contents thereof located on the outside of the container in fixed attachment thereto, said means comprising a receptacle fixedly secured to the bottom of said container, a body of inflammable material located within said receptacle, elements wihin said recepacle adapted, when brought into frictional engagement with one another, to ignite the said body of inflammable material, and means forming a part of said receptacle and movable thereon adapted to be manually manipulated for bringing said elements within the receptacle into frictional engagement with one another.

2,643,651
THERAPEUTIC TABLE
Arthur Larron Colston, Manhattan Beach, Calif.
Application January 22, 1951, Serial No. 207,130
10 Claims. (Cl. 128—33)



1. A physical therapy table comprising a pair of parallel longitudinal members, a platform on said members, a stand for said members, said members being resiliently mounted on said stand,

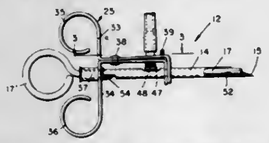
and a motor attached to said platform for imparting vibrations thereto, the axis of said motor being at an angle to the plane of said platform.

2,643,652
MOUTH PROTECTOR
Jack F. Cathcart, Berkeley, Calif., assignor of one-half to Fred P. Moffett, Berkeley, Calif.
Application April 9, 1951, Serial No. 220,061
16 Claims. (Cl. 128—136)



1. A mouthpiece for application to the upper teeth, comprising a U-shape trough portion adapted to accommodate the upper teeth of individuals within a substantial range of variations in mouth size and shape; and a soft flexible palatal membrane spanning the lingual area defined by said U-shape trough portion, said palatal membrane terminating in a rear edge adapted to engage the hard palatal region of an individual just anterior of the junction of the hard and soft palates and being sufficiently thin to conform to the contour of the roof of the mouth of a wearer upon removal of air from between said palatal membrane and said roof.

2,643,653
PILL INJECTOR
John Heidrich, Los Angeles, Calif.
Application July 19, 1951, Serial No. 237,571
6 Claims. (Cl. 128—217)



1. An instrument for injecting pills, comprising a handle member, a hollow needle mounted on said member, a plunger supported in said needle for axial movement therein, said needle having an opening in the side thereof intermediate its ends, a pill delivery tube supported on said handle member and terminating adjacent said opening, and a spring-biased axially movable tubular extension forming a continuation of said delivery tube constructed and arranged to partially enter said needle through said opening therein and trap a pill delivered to said needle from substantial movement in said needle, said extension being movable out of said needle by camming action of said plunger.

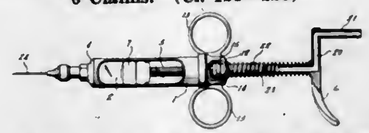
2,643,654
HYPODERMIC SYRINGE
Thorsten Åberg, Goteborg, Sweden
Application May 2, 1951, Serial No. 224,187
In Sweden August 11, 1949
1 Claim. (Cl. 128—218)

A hypodermic syringe which can be loaded with an ampule, the ends of which are closed off by rubber stoppers and which is capable of being emptied of its contents through a needle inserted in one of the stoppers upon the application of pressure on the other stopper by means of a plunger, fitted within the syringe, which plunger at that end bearing against the upper rubber stopper, is provided with two sharply pointed, diametrically opposing gripper claws shaped in the form of a cylindrical screw of approximately a quarter turn which, upon turning the plunger,



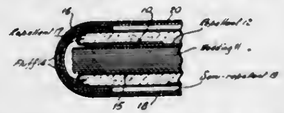
are adapted to penetrate into and engage said rubber stopper so that the latter not only may be depressed into the ampule but can also be withdrawn thus producing a suction effect at the time of the injection.

2,643,655
HYPODERMIC AND OTHER SYRINGES OR DRENCHERS
Angus Conrad McKay, Forrest, Canberra, New South Wales, Australia
Application September 12, 1950, Serial No. 184,403
In Australia September 19, 1949
6 Claims. (Cl. 128—220)



1. A syringe or the like comprising a barrel, a discharge valve at one end of the barrel, a piston in the barrel having an inlet valve, a hollow piston rod attached at one end to the piston and through which fluid is fed to the barrel, an approximately thimble-shaped headpiece with its open end detachably secured to the other end of the barrel, an opening in the closed end of the headpiece through which the piston rod extends, a dosage adjusting nut adjustably secured to the piston rod and inside the bore of the headpiece, cut-away openings in the cylindrical side of the headpiece to enable ready access to the dosage adjusting nut, and a handpiece at the other end of the piston rod.

2,643,656
SANITARY NAPKIN
Ralph L. Atkinson, Westfield, N. J., assignor to Personal Products Corporation, a corporation of New Jersey
Application October 31, 1950, Serial No. 193,175
9 Claims. (Cl. 128—290)



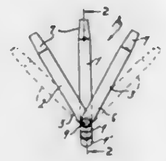
9. A sanitary napkin comprising an elongated absorbent form-retaining pad of soft feel and an outer wrapper therefor, said absorbent pad comprising a center layer composed of a substantial number and weight of absorbent tissues and including fluid-repellent tissue, and, superposed on each face of said center layer, and contacting it, a form-retaining soft fluff layer of substantial weight, the combination of said three layers being covered at both edges of the napkin and within said outer wrapper by fluid-repellent side strips to prevent penetration of fluid from said napkin through said edges, said fluid-repellent tissue being arranged on one side of the absorbent tissue layer.

2,643,657
CORN SNAPPING AND HUSKING ROLLS
Rector C. Fergason, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Original application June 15, 1942, Serial No. 447,025. Divided and this application January 12, 1948, Serial No. 1,879
10 Claims. (Cl. 130—5)



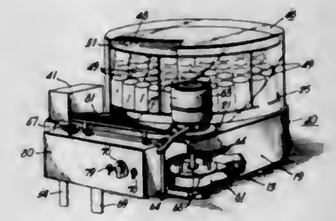
2. A corn harvester ear snapping and husking apparatus comprising a supporting frame, and a pair of forwardly extending rolls rotatably mounted on said frame in cooperative side opposed relation, said rolls presenting forward picker sections including a pair of forwardly extending tapered points joined to rearwardly extending longitudinally ribbed portions wherein the ribs of one roll are in substantial alignment with the corresponding ribs on the other roll as the ribs pass a point between the rolls, trash sections to the rear of and aligned with the picker section and including a pair of longitudinally ribbed portions wherein the ribs of one roll are out of alignment with the ribs of the other roll as the ribs pass a point at the opposed sides of the rolls, and presenting husking sections to the rear of and in alignment with said trash sections and including a pair of smooth surfaced portions with the opposed sides thereof in contact.

2,643,658
HAIR RINGLET HOLDER
Anna Cecelia Koke, St. Louis, Mo.
Application September 10, 1951, Serial No. 245,813
4 Claims. (Cl. 132—46)



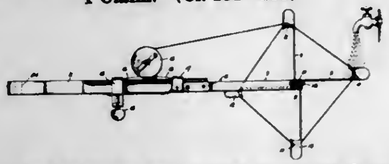
1. A device for fashioning hair ringlets by retentively holding same at three spaced points during the formative period comprising a main clamp member and two companion clamps members, each of said clamp members having opposed, normally inner and outer gripping legs connected at corresponding ends by a resilient loop and being free at their opposite ends, the outer gripping legs of said companion clamp members being pivotally secured in superimposed relation to the outer leg of the main clamp member adjacent their free ends and the inner gripping legs of said companion clamp members being pivotally secured in superimposed relation to the inner gripping leg of the main clamp member adjacent their free ends, the gripping legs of the main clamp member extending beyond the point of attachment to the gripping legs of the companion clamp members, the extended portion of the gripping legs of the main clamp member being formed to provide a widened entrance to the space between the gripping legs.

2,643,659
DEVICE FOR WASHING ARTICLES SUCH AS DRINKING GLASSES
Noel E. Auten, Wyndmoor, Pa., assignor to Metal Specialties, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application September 22, 1949, Serial No. 117,234
5 Claims. (Cl. 134—80)



1. A device for washing and rinsing articles such as drinking glasses, comprising a stationary base tank having a circular top opening and having a partition extending diametrically of said opening and dividing the tank into two compartments one for wash water and the other for rinse water, a rotatable circular carrier at the top of said tank and substantially coextensive with said circular opening, said carrier having a water-pervious bottom to support said articles and also including a wheel-like support having radial spokes and a plurality of radial partitions supported by said spokes and dividing the carrier into a plurality of substantially similar sectors, means rotatably supporting said carrier at its center, means for driving said carrier, a stationary cover having an opening for insertion of said articles into each of said sectors, stationary spray means in the wash water compartment of said base tank, arranged to project wash water upwardly through the bottom of said carrier, stationary spray means in the rinse water compartment of said base tank, arranged to project rinse water upwardly through the bottom of said carrier, means for circulating wash water through the first-recited spray means, means for conveying rinse water to said last-recited spray means, and means for continuously draining the rinse water from the rinse water compartment.

2,643,660
FISHING LINE WASHING AND DRYING REEL
William M. Buchholz, Miami, Fla.
Application November 22, 1949, Serial No. 128,714
1 Claim. (Cl. 134—138)



A line washing and drying structure for use with a source of fluid supply, a support, means on said support for attaching a fishing line reel thereto, an elongated hub rotatably mounted on said support in spaced relationship with said reel and parallel with the latter, flat impeller blades equal in width to the length of said hub secured at their inner ends to the latter and projecting radially therefrom, and the outer ends of said blades bent upon themselves throughout their widths to provide buckets on their inner surfaces and to be engaged on their outer rounded surfaces by fishing line to be wrapped upon said reel.

2,643,661
JEWELRY CLEANING DEVICE
Thomas J. Shanahan, Jr., Chicago, Ill.
Application November 1, 1950, Serial No. 193,444
2 Claims. (Cl. 134—143)



1. A device for cleaning finger rings which comprises a wide-mouthed jar for containing fluid solvent and adapted for screw-top closure, a closure element for said jar having a flat interior seating surface, a plate disposable between said closure element and said screw-adapted mouth of said jar, said plate being formed with a shallow central dished indentation and having within said indentation an elongated slot of predetermined width, and a support element which comprises a member formed of wire stock smaller than said slot width and provided with a transverse looped base portion adapted to reside within said plate indentation and two springably diverging leg elements symmetrical and opposite in formation, each of said leg elements having a semi-circular inwardly bent hook extremity, and both of said hook extremities constituting the sole support for a finger ring or similar article placed therewithin for submergence within said jar.

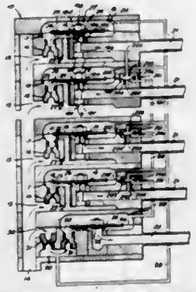
2,643,662
CONTAINER HAVING A MOVABLE BOTTOM
John P. Bunce, Rochester, N. Y.
Application April 9, 1948, Serial No. 20,043
2 Claims. (Cl. 134—164)

1. In a tank having a bottom wall and first and second end walls rising therefrom and means for spacing the bottom wall of the tank from a surface on which the tank is supported, a false bottom positioned within the tank, pairs of laterally spaced upper pulleys mounted on and rising above the upper ends of said end walls, pairs of laterally spaced lower pulleys mounted on and depending from the lower ends of said end walls to a level below the tank bottom wall, a cable drum mounted centrally on said first end wall at the side thereof remote from the false bottom, said cable drum being positioned with its axis perpendicular to the said side of said first end wall, a pair of cables at each side of the tank, each pair consisting of a first cable trained over the upper pulley on said first end wall at the related side of the tank and secured at one end to the drum and at its other end to the adjacent end



of the false bottom at the side thereof adjacent to such upper pulley, a second cable trained under the lower pulley on said first end wall at the same side of the tank as said first cable and beneath the tank bottom wall and under the lower pulley on the second tank end wall at the same side of the tank and over the upper pulley of the second tank end wall at the same side of the tank, the second cable being secured at one end to the cable drum and at its other end to the other end of the false bottom at the related side of the tank, and means for rotating said drum to raise and lower the false bottom in the tank.

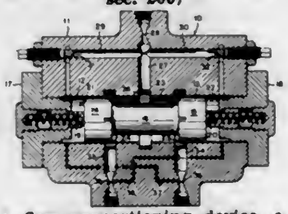
2,643,663
FLUID CONTROL SYSTEM
Harold Gold, East Cleveland, and David M. Straight, Cleveland, Ohio
Application May 24, 1948, Serial No. 28,959
10 Claims. (Cl. 137—101)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination in apparatus for controlling the flow of fluid through a plurality of fluid passages, pressure-sensitive means for individually controlling each of said passages, a single pilot passage, spaced pressure controlling orifice means in said pilot passage defining therebetween a static pressure head, means effecting communication between said static pressure head and each of the pressure-sensitive control means for said plurality of passages for coordinating the flow through said plurality of passages with the flow through said pilot passage, a pressure-sensitive valve for adjusting the flow through said pilot passage, and means effecting

communication with said pressure-sensitive valve and each of said plurality of passages to render said pressure-sensitive valve responsive to the greatest departure in pressure in any of said plurality of passages from the relative pressure condition established in said plurality of passages as a result of said coordinating of flow therein with flow through said pilot passage.

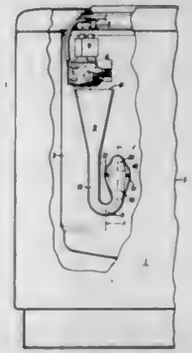
2,643,664
FLOW DIVIDING VALVE
Warren P. Willett, Westmoreland Hills, Md.
Application October 20, 1948, Serial No. 55,523
3 Claims. (Cl. 137—101)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a flow proportioning device, a housing defining a chamber including opposite end zones and an intermediate zone, a main hydraulic duct communicating with said intermediate zone, two branch hydraulic ducts having spaced ports communicating with said intermediate zone, each of said spaced ports being adjacent one only of said end zones, valve means including two spaced connected members in said intermediate zone and movable toward a given one of said end zones to respectively increase and decrease the effective areas of said spaced ports adjacent and remote from said given end zone, spring biasing means urging said valve means to a central balanced position, said branch ducts each including a flow restricting Venturi portion, two passageways each respectively extending from one of said end zones to the flow restricting section of that branch duct whose port is remotely spaced from said one end zone, said main duct having a flow restricting Venturi portion for producing a back pressure within the housing when said main duct is serving as a hydraulic outlet for the housing, and two passageways each respectively extending from one of said end zones to said Venturi portion of said main duct.

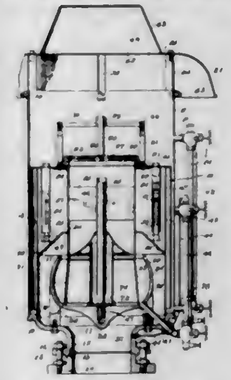
2,643,665
WATER INLET SYSTEM FOR AUTOMATIC WASHING MACHINES
Harold E. Stocking, Trenton, N. J., assignor to General Electric Company, a corporation of New York
Application September 24, 1949, Serial No. 117,565
1 Claim. (Cl. 137—216)

As a new article of manufacture, a combined inlet conduit and suds trap for attachment to a tub, comprising a substantially flat backing plate for direct attachment to the side wall of said tub, said plate being generally U-shaped with one leg predominantly longer than the other and having an aperture provided in the shorter leg below the end thereof, a rounded front plate having an elevational shape corresponding to the back plate and being of coextensive length therewith, said front and back plates being secured about their common margins to provide a tubular conduit having an open end and a closed end, and a nipple having a relatively thick, deformable, end portion fitting tightly about the edge of said back plate opening and extending outwardly from



said back plate to provide a flow connection between said conduit and said tub.

2,643,666
VENTING APPARATUS FOR TANKS OR THE LIKE
Joseph F. Lee, Lynwood, and George E. Denny, Compton, Calif., assignors to Frank V. Long, Compton, Calif., doing business as The Vapor Recovery Systems Company
Application May 6, 1947, Serial No. 746,402
11 Claims. (Cl. 137—248)



1. In gas venting apparatus for relieving a variable pressure within a tank or the like, the combination of a bell having a duct for receiving gas at the variable pressure, a valve-closure for the duct, the inner surface of which is exposed to the pressure within the duct, for normally closing off flow through said duct; means for maintaining a liquid seal for the duct, and a liquid seal for the bell; said bell having a head carrying said valve-closure, and having an area exposed to the pressure within the tank, and an area exposed to an external pressure, said bell operating to rise and break the duct's liquid seal at a predetermined differential pressure between the variable pressure and the external pressure; all of said parts cooperating when said duct's liquid seal is broken to admit gas to the said duct from the interior of the tank, to flow

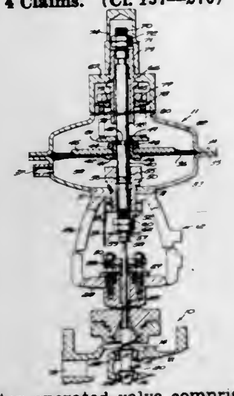
past the valve closure; and a load picked up by the bell when it rises after breaking the said seal.

2,643,667

REVERSIBLE APPLICATION OF POWER TO MOTOR-OPERATED VALVE

Edward T. Dahl, Warwick Neck, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States

Application September 22, 1951, Serial No. 247,784
4 Claims. (Cl. 137—270)



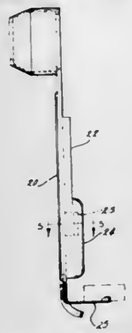
1. A motor-operated valve comprising a body, a plug axially movable in said body to and from a seat, a support on said body for a motor, a motor having a casing, a shaft extending through said casing with its opposite ends projecting therefrom, said shaft being spring loaded in one direction with reference to said casing, means to axially move said shaft against the spring loading, duplicate means at the ends of said casing through which said shaft extends to selectively engage said support and means to connect the shaft at the selected end to said plug.

2,643,668

HOSE NOZZLE SHIELD

Albert J. Ackermann, Kirkwood, Mo., assignor to Viko, Inc., Clayton, Mo., a corporation of Missouri

Application December 27, 1948, Serial No. 67,539
3 Claims. (Cl. 137—379)



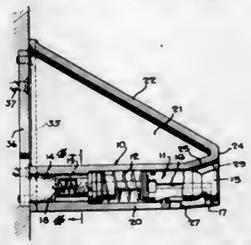
3. The combination of a liquid dispensing nozzle including a dispensing tube and a valve housing and a guard having an outer face with upstanding side faces, there being a slot in said outer face, and a nozzle shield of rubber-like material having a relatively short collar portion at one end surrounding the dispensing tube, having an elongated part applied to the outer face of the guard, having reentrant flanges extending from said elongated part and engaging over the side faces of the guard, there being a rib on said elongated part extending substantially parallel to and intermediate said flanges and through said slot for securing the elongated part to the guard.

2,643,669

SOAP DISPENSER

Hugh H. Logan, La Canada, Calif.

Application January 17, 1949, Serial No. 71,296
3 Claims. (Cl. 137—382)



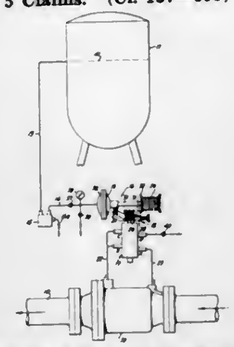
2. A casing for a liquid soap dispenser, comprising: a horizontally disposed plunger-receiving barrel having means at its rearward end for connection with a supply pipe, a hood of generally arch-shaped cross section over said barrel and projecting forwardly therefrom, said hood having a substantially arch-shaped front end wall, a top wall which slopes upwardly at a substantial angle to horizontal from said forward end wall to the rearward end of the hood, and having also side walls on opposite sides of and spaced horizontally from said barrel, and a bottom wall joining the lower edges of said side walls with said barrel.

2,643,670

LIQUID FLOW SYSTEM AND APPARATUS

Austin U. Bryant, Berkeley, Calif., assignor to Grove Regulator Company, Oakland, Calif., a corporation of California

Application November 14, 1950, Serial No. 195,580
5 Claims. (Cl. 137—393)



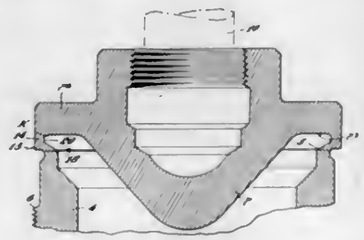
1. In a liquid flow control system including an elevated liquid storage tank and a main liquid flow line, valve means adapted to control flow of liquid through said line, operating means for said valve means including a chamber adapted to receive fluid under pressure to control operation of the same, a depending pipe line having its upper end connected to said tank, a bleed orifice communicating with the lower end of said pipe line and through which liquid is adapted to continuously bleed when the upper end of the pipe line is immersed by liquid in the tank, ported means connected to the upper end of the pipe line for flow of liquid from the tank to said line, said means providing flow communication over a vertical distance substantially greater than the flow passage through the pipe, and a pressure connection from the lower portion of said pipe line to said chamber.

2,643,671

SPRING LOADED POP-SAFETY VALVE

Russell W. Dayton, Columbus, Ohio, assignor, by mesne assignments, to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey

Application June 21, 1952, Serial No. 294,879
7 Claims. (Cl. 137—469)



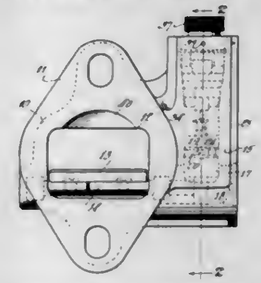
1. A pop safety valve for use with high pressure gaseous fluid, said valve comprising a rigid annular seat, an upwardly movable valve head normally exposed at its underside to pressure fluid tending to lift it from the seat, and a loading spring arranged to exert downward force against the head thereby normally to keep the head seated, the head being free to lift from the seat except for the force exerted by the spring, the head comprising a rigid body capable of withstanding, without substantial distortion, the loads imposed by the pressure fluid and spring, the head comprising an annular flange which is joined at its root portion to the body of the head and which extends downwardly and inwardly with its free inner edge portion spaced below the body, the flange having a finished under surface for contact with the seat, the upper surface of the flange merging with the under surface of the body of the head to form an annular channel which is filled with the pressure fluid when the valve is closed, the free edge portion of the flange being of lesser diameter than its root portion and so thin as rapidly to transmit heat from the pressure fluid within said channel to the seat-contacting surface of the flange, the radial depth of the annular channel, measured outwardly from a geometrical, cylindrical surface defined by the inner edge of the seat-contacting surface of the flange, exceeding the radial width of the surface of contact between the flange and seat.

2,643,672

GOVERNOR

William Laubach, Houston, Tex.

Application October 2, 1948, Serial No. 52,525
12 Claims. (Cl. 137—484)



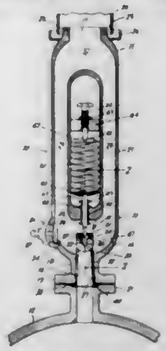
1. A speed governor comprising, a housing having a fuel passage therethrough and having a threaded bore communicating with said passage; a valve in said passage movable toward a closed position by the force of the fuel flowing therethrough; a piston connected to said valve and reciprocable within said bore by movement of said valve, the threads in said bore including two threaded portions of different pitch; an abutment threadedly engaging one of said portions; a first spring confined between said piston and said abutment to resist closing of said valve; a screw threadedly engaging the other of said portions and linked for unitary rotation with said abutment; a second spring disposed between said screw and said piston and being compressed therebetween after the valve has partially closed, the rotation of said screw simultaneously but unequally adjusting the spacings of both the abutment and the screw with respect to the piston.

2,643,673

PRESSURE RELIEF VALVE HAVING ITS INLET AND OUTLET IN ALIGNMENT

Glen J. Schoessow, Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application January 14, 1948, Serial No. 2,225
7 Claims. (Cl. 137—536)



1. In a relief valve, a valve body having a valve chamber therein, means forming an inlet to said chamber comprising a bushing removably assembled within an opening in a wall of said cham-

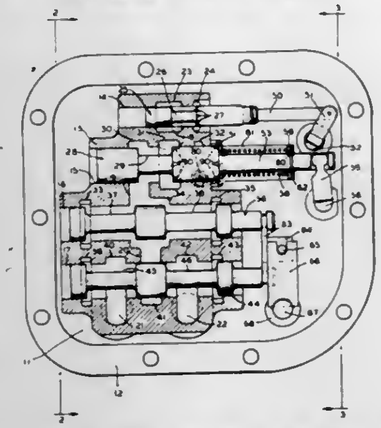
ber and terminating inwardly of said chamber, a valve disc within said chamber axially movable with respect to an annular seat at the inner end of said bushing, a valve stem connected to said disc and extending to the exterior of said body through an opposite wall of said chamber, said wall opening for said bushing being of large enough area to permit insertion and removal of said valve stem and disc therethrough, and a valve loading mechanism engaging an exteriorly positioned portion of said stem.

2,643,674

MULTIPLE VALVE UNIT

Robert Lapsley and George L. Turner, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application November 30, 1950, Serial No. 198,454
8 Claims. (Cl. 137—621)



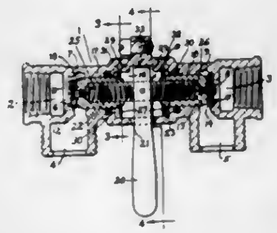
1. A control mechanism for use with a sump housing, a fluid pump and a fluid motor comprising, a valve block having first, second and third openings formed therein, first and second axially spaced annular grooves formed in said valve block coaxially of said first opening, third, fourth and fifth axially spaced annular grooves formed in said valve block coaxially of said second opening, sixth, seventh, eighth, ninth and tenth axially spaced annular grooves formed in said valve block coaxially of said third opening, an inlet fluid passageway in said valve block communicating at one end thereof with said first annular groove and at the other end thereof being adapted to be connected to the fluid pump, said second, third, fifth, sixth and tenth annular grooves being adapted to be placed in communication with the sump housing, first fluid passageway means in said valve block communicating at one end thereof with said inlet fluid passageway and at the other end thereof communicating with said fourth annular groove, second fluid passageway means in said valve block communicating at one end thereof with said seventh annular groove and at the other end thereof being adapted to be connected to the fluid motor, third fluid passageway means in said valve block communicating at one end thereof with said ninth annular groove and at the other end thereof being adapted to be connected to the fluid motor, fourth fluid passageway means in said valve block communicating at one end with said fourth annular groove and at the other end thereof communicating with said eighth annular groove, a first rectilinearly movable valve disposed in said first opening and having a first annular channel formed therein, a second rectilinearly movable valve disposed in said second opening and having second and third axially spaced annular channels formed therein, a third rectilinearly movable valve disposed in said third opening and having fourth and fifth axially spaced annular channels formed therein, said second valve in one position being adapted to place said third, fourth and fifth annular grooves in communication through said second and third annular channels, said third valve being adapted in one position to place said sixth and seventh annular grooves in communication through said fourth annular channel and said ninth and tenth annular grooves in communication through said fifth annular channel, said third valve being adapted in a second position to place said seventh and eighth annular grooves in communication through said fourth annular channel and said ninth and tenth annular grooves in communication through said fifth annular channel, said third valve being adapted in a third position to place said sixth and seventh annular grooves in communication through said fourth annular channel and said eighth and ninth annular grooves in communication through said fifth annular channel, and said first valve in one position being adapted to place said first and second annular grooves in communication through said first annular channel.

2,643,675

DUPLEX VALVE

Paul C. Symmons, Boston, Mass.

Application June 5, 1951, Serial No. 229,997
3 Claims. (Cl. 137—630.18)



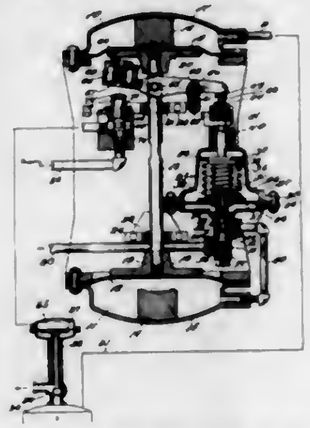
1. A valve structure comprising a valve casing provided with two separate inlet openings and a separate discharge opening communicating with each inlet opening through a separate port, two separate axially alined oppositely disposed valves, one controlling the port connecting one inlet opening and its discharge opening and the other controlling the other port connecting the other inlet opening and its discharge opening, both valves being movable in the direction of their common axis to open and close the ports, a valve operating member situated between said valves and mounted for turning movement about the common axis of the valves, said valve operating member having means cooperating with both valves by which turning movement of said member in one direction will move the valves away from each other in the direction of their common axis to close both valves and turning movement in the opposite direction will move the valves in an opposite axial direction to open both valves, said valve operating member being free to move longitudinally of the common valve axis, whereby when the valves are closed both valves will be subjected to the same valve-closing pressure.

2,643,676

CONTROL MECHANISM FOR RELIEF VALVES

John R. Curran, Greenwood, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States

Application April 19, 1948, Serial No. 21,997
12 Claims. (Cl. 137—658)



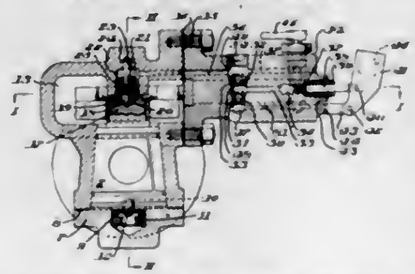
12. A control mechanism comprising a chamber having a wall which is movable in response to pressure in the chamber, fluid chamber means operatively connected to said wall for urging the same to contract the volume of said chamber, and second means operatively connected to said first means and responsive to the initial movement of said wall against the action of said first means to relieve the pressure of said first means and permit more rapid movement of said wall and means operable by said movement to control an air supply conduit.

2,643,677

APPARATUS FOR OPERATING ROTARY VALVES

Allen D. MacLean, Pittsburgh, Pa., assignor, by mesne assignments, to The Ohio Injector Company, Wadsworth, Ohio, a corporation of Ohio

Application September 14, 1948, Serial No. 49,181
2 Claims. (Cl. 137—658)



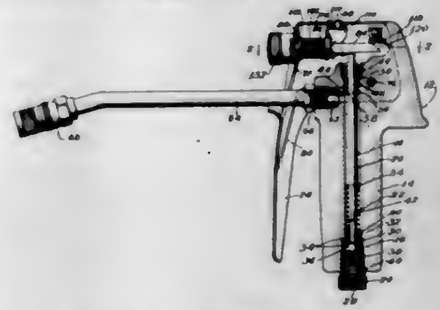
1. Apparatus for operating a tapered rotary plug valve comprising first means adapted to be fluid actuated to unseat the plug valve for turning, second means adapted to be fluid actuated to turn the plug valve, fluid pump means, a duct from the fluid pump means to the first means, a control valve, a passage from the fluid pump means to the control valve, two ducts from the control valve to the second means through which selectively, depending on the position of the control valve, fluid under pressure created by the fluid pump means is conducted from the control valve to the second means to turn the plug valve in one or the other direction, a return passage from the control valve to the fluid pump means for delivering to the fluid pump means fluid returning to the control valve from the second means, means inhibiting retrograde movement of fluid through said passages and a relatively small duct connecting said two ducts to each other.

2,643,678

ADJUSTABLE STROKE LUBRICANT DISPENSING VALVE

Francis C. Paradise, Fox Lake, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application September 16, 1949, Serial No. 115,985
15 Claims. (Cl. 137—749)



2. A lubricant dispensing valve comprising a body member having a lubricant passageway therein with an outlet adapted to be connected to a part to be lubricated and an inlet adapted to be connected to a source of lubricant under pressure, a check valve to prevent flow of lubricant through said passageway, resilient means biasing the check valve to close the latter, a valve operating plunger biased to inoperative position, an operating handle, means to establish an operative driving connection between the handle and the plunger for moving the latter in a direction to open said valve when said handle is operated including delayed action means to release said plunger for return to inoperative position during the stroke of said handle, and means to adjust the point in the stroke of said handle at which said delayed action means becomes effective to release the plunger to vary the length of time said valve is held open during a complete stroke of the handle.

2,643,679

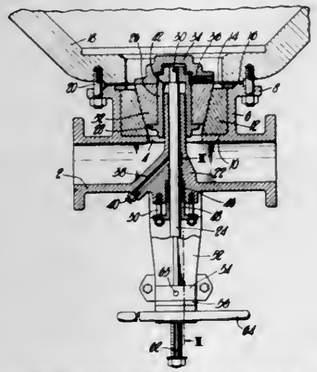
CORROSION RESISTANT VALVE

Roy P. Keammerer, Gary, Ind., assignor to United States Steel Corporation, a corporation of New Jersey

Continuation of application Serial No. 5,951, February 3, 1948. This application April 27, 1949, Serial No. 89,971
6 Claims. (Cl. 137—775)

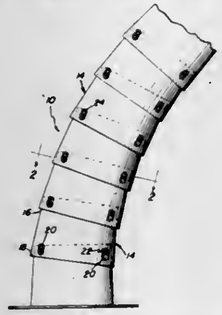
1. In a plug type valve, a valve body having a drain opening, an annular housing on said body around said opening, said housing being spaced from said opening to provide a seat between said opening and housing, a removable brittle corrosion resistant insert having a tapered central opening disposed on said seat, the bottom of said insert having substantially the same area as the top of said seat, said seat providing a support for the entire bottom of said insert and said housing a support for its periphery, a valve stem extending through said opening, a hollow cylindrical bushing secured to the upper end of said stem, a

brittle corrosion resistant insert plug having a tapered exterior carried by said bushing, an uninterrupted cap member secured to said bushing contacting the entire top of said insert plug, said



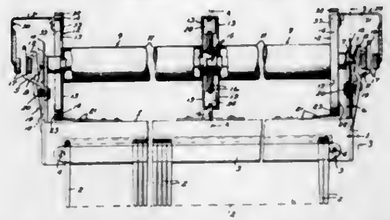
cap providing a support for the entire top of said plug when it is forced against the first mentioned insert to close the drain opening and means to reciprocate said stem to open and close said drain opening.

2,643,680
FLEXIBLE ELBOW
Henry Kaiser, Kiel, Wis.
Application January 30, 1950, Serial No. 141,192
1 Claim. (Cl. 138—52)



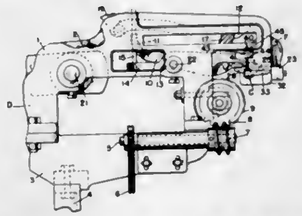
A flexible conduit comprising a plurality of telescoping frusto-conical sections, each of said sections having three axially extending slots adjacent one end arranged in equally spaced circumferential relation to one another, three circumferentially arranged equally spaced pins adjacent the other end of each section, said pins being received in the corresponding slots of an adjacent section to flexibly connect said sections for angular movement with respect to one another, said pins each having a head on the inner end thereof and a retainer on the outer end thereof, said sections having a concavo-convex guide flange surrounding each of said pins, the concave face of each of said guide flanges opening inwardly and receiving the head of one of said pins, an outwardly flared, axially extending rim on each of said sections around each slot providing a reinforcing flange, the convex face of each of said guide flanges being slidingly received within one of said rims.

2,643,681
YARN CARRIER FOR AXMINSTER LOOMS
Leslie A. Runton, Port Chester, N. Y., assignor to Alexander Smith, Incorporated, Yonkers, N. Y., a corporation of New York
Application August 9, 1952, Serial No. 303,545
11 Claims. (Cl. 139—10)



1. A tube frame for Axminster looms comprising a carrier bar, a yarn spool having an end drum rotatably mounted on said bar, braking means for retarding the rotation of said spool comprising a permanent magnet attached to said carrier bar and positioned to exert a magnetic influence on said end drum.

2,643,682
CONTROLLER FOR LOOM DOBBY FINGERS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application May 10, 1952, Serial No. 287,131
9 Claims. (Cl. 139—56)



1. In a loom dobby having a set of harness lifter hook controlling fingers each capable of being either in low or high position but normally in low position, a controller under the fingers mounted on the dobby for angular movement about an axis transverse of and below said fingers, said controller having a wing effective when the controller is turned in one direction around said axis to insure location of all of said fingers in high position and said controller having a second wing effective when the controller is turned in the opposite direction around said axis to locate certain only of said fingers in high position.

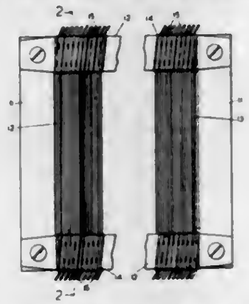
2,643,683
REPAIR HEAD FOR HEDDLES
William H. Thorpe, Philadelphia, Pa., assignor to Walker Manufacturing Company, Philadelphia, Pa.
Application April 18, 1951, Serial No. 221,579
3 Claims. (Cl. 139—96)

1. The combination of a heddle shank provided with an aperture, with a repair head comprising a portion adapted to receive a heddle bar, a body portion having an upwardly directed shoulder, and an initially depending tongue extending through said aperture, said tongue being bent reversely into parallelism with said body portion



and its free end being reversely bent over said shoulder.

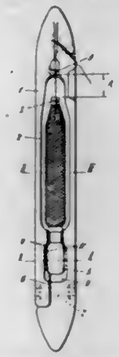
2,643,684
REED FOR TEXTILE PURPOSES AND METHOD OF MAKING SAME
Matthew Michael Taylor, Spondon, near Derby, England, assignor to British Celanese Limited, a corporation of Great Britain
Application April 17, 1951, Serial No. 221,360
In Great Britain April 27, 1950
13 Claims. (Cl. 139—192)



1. A method of making a reed for textile purposes, said method comprising securing a series of reed wires at the top and at the bottom of said wires between a pair of longitudinal members by binding round and round said pair of members a yarn having a content of thermoplastic textile fibres and a content of other textile fibres while disposing each reed wire between two successive turns of said yarn, and then softening the thermoplastic fibres of said yarn so as to fix the yarn, the reed wires and the longitudinal members relatively to one another.

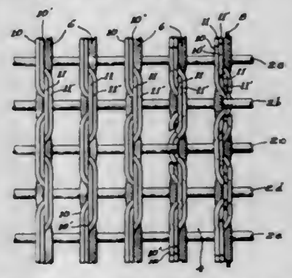
2,643,685
WEAVING SHUTTLE WITH ROUND BOBBIN
Ernst Egli, Ruti, Switzerland, assignor to Maschinenfabrik Rüti A. G., vormals Caspar Honegger, Ruti, Switzerland, a Swiss joint-stock company
Application October 23, 1950, Serial No. 191,598
In Switzerland October 22, 1949
1 Claim. (Cl. 139—207)

A weaving shuttle having a cavity extending entirely therethrough for the reception and accommodation of a bobbin having a cylindrical base, comprising separable walls and resilient means urging said walls together, said walls including cooperating oppositely disposed surfaces forming entry and exit passages and retaining means for the bobbin base, said retaining means being disposed between said entry and exit passages and comprising opposite arcuate surfaces having a curvature corresponding to the curvature of the cylindrical base of the bobbin, the surfaces forming the entry passage having mutually opposed projections thereon affording a restricted entrance into said retaining means, the distance between said projections being less than the diameter of the bobbin base and less than the distance between the surfaces forming the exit passage, whereby the base of a fresh bobbin



as it is forcefully inserted into the entry passage and contacts said mutually opposed projections will effect separation of the walls of the cavity sufficiently to permit the old bobbin to fall freely out of the shuttle as the new bobbin takes its place.

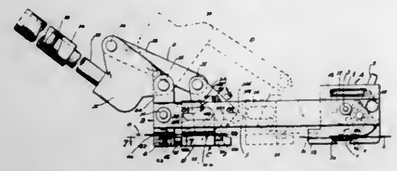
2,643,686
WOVEN ELASTIC FABRIC
Albert J. Richards, Lowell, Mass., assignor to United Elastic Corporation, Easthampton, Mass., a corporation of Massachusetts
Application December 18, 1950, Serial No. 201,409
6 Claims. (Cl. 139—421)



1. A woven elastic fabric woven under warp tension comprising spaced weft strands, spaced sinuous elastic warp strands crossing said weft strands entirely on one face of the weft strands without interweaving therewith, and a pair of binder warps associated with each elastic warp strand and binding it to the weft strands, the binder warps of a pair being symmetrically disposed with respect to each other and to the associated elastic warp strand, and crossing their associated elastic warp strand on its face opposite said weft strands between successive picks, one binder warp of a pair passing under alternate weft strands on one side of the associated elastic warp strand and over the intermediate weft strands on the other side of the associated elastic warp strand, and the other binder warp of the pair passing under said intermediate weft strands on said other side of the associated elastic warp strand and over said alternate weft strands on said one side, said elastic warp strand thus cross-

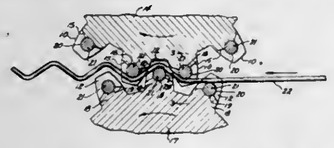
ing both of its associated binder warps between every two adjacent weft strands, and said binder warps crossing each other between every two adjacent weft strands, whereby the elastic warp strands when relaxed of weaving tension contract and coact with their associated binder warps at the weft crossings to lock the elastic warp strands against displacement with respect to the weft strands.

2,643,687
STRAP FASTENING TOOL
Ernest L. Schlage, Burlingame, Burnie M. Craig, Pasadena, and Michael J. McAneny, Los Angeles, Calif.; said Schlage and said Craig assignors to said McAneny
Application November 14, 1945, Serial No. 628,442
12 Claims. (Cl. 140—93.4)



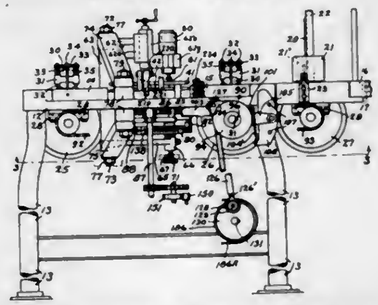
3. In a strap fastening tool for fastening a strap to a buckle, a frame having a head at one end with means for securing the buckle and for receiving an end of the strap to be fastened to the buckle, a slide mounted on the frame, a member pivotally mounted on the slide and provided at one side of the member pivot with a pawl portion on one side of the member pivot for cooperation with a portion of the slide for securing the strap to the slide, and means for rocking said member about its pivotal axis on the slide, the slide and said member having co-operating shear members on the other side of the member pivot for severing the strap when the member is rocked in a direction opposite to the strap holding action of the pawl, the slide and the member having also co-operating forming die means for bending the ends of the strap after it is cut, by continuous rotation of the member about its pivotal axis, the member having a folding end portion at the end nearest the head for folding the bent portion of the strap over and into the buckle, said forming end of the member having also a portion for compressing the buckle over the bent end of the strap.

2,643,688
DEVICE FOR CORRUGATING WIRE
David E. Crooker, Ontonagon, Mich., assignor of one-half to Lloyd L. Felker, Marshfield, Wis.
Application July 20, 1949, Serial No. 105,691
10 Claims. (Cl. 140—105)



6. In a device for corrugating wire or the like, a pair of spaced parallel rotatable shafts, a first gear fixedly mounted on the first of said shafts, roller backing means fixed to said first shaft adjacent said first gear, the end surfaces of the teeth of said first gear which are adjacent said roller backing means being formed with bearing recesses, a plurality of freely rotatable rollers each having one end journalled in one of said bearing recesses, said rollers extending parallel with said shafts, a second gear fixedly mounted on the second of said shafts and meshing with said first gear, roller backing means fixed to said second shaft adjacent said second gear, said second gear being formed with bearing recesses, a plurality of freely rotatable rollers each having one end journalled in the last-mentioned bearing recesses, the roller backing means of each shaft having outwardly open seats located between the rollers and the shaft and rotatably supporting the rollers intermediate their length.

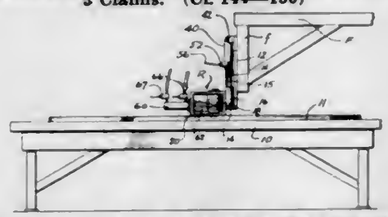
2,643,689
VENEER PATCH ROUTING AND PATCH HOLDING DURING ROUTING MECHANISM
Charles A. Sherman, Tacoma, Wash.
Application December 27, 1949, Serial No. 135,197
13 Claims. (Cl. 144—2)



2. In a machine of the class described, a frame; a patch veneer stock clamping means mounted on said frame having an opening extending through said means of substantially larger size than the patch to be cut from said stock; an automatically mechanically actuated and guided routing tool swingingly mounted on said frame on one side of said stock clamping means; an automatically separate movable patch section holding arm pivotally mounted adjacent said patch stock clamping means out of the path of said routing tool, having a vacuum cup opening; a vacuum cup mounted in said opening engageable continuously with said stock while said routing tool is caused to progressively advance in the cutting path of the patch pattern while said clamping means is holding the stock on the outside of the cutting path, whereby said patch section may be firmly held by the simultaneously cooperative action of the clamping means and the suction cup while being formed into a cut-out patch; and an actuating means for said arm whereby said arm may be moved into engagement with one surface of the patch veneer stock.

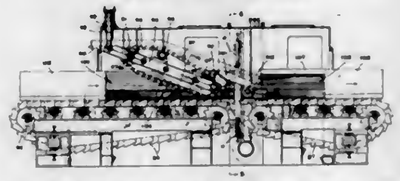
10. In a routing machine, a patch pattern determining cam; a driven routing tool; material supporting means positioned between said driven routing tool and said cam; a clamping plate positioned adjacent to and in spaced relation from said material supporting means on the side thereof toward the driven routing tool; material feeding means operable whereby material is fed between said material supporting means and said clamping plate; supporting means moving devices connected with said material supporting means, whereby the supporting means can be moved toward the routing tool to clamp material against the clamping plate and apply said material to the routing tool; a patch holding member swingingly movable toward and away from material held by said material supporting means at the side of the material opposite said routing tool; vacuum cups carried by said patch holding member and positioned to engage said material; protruding needles carried by said patch holding member adjacent said vacuum cups arranged to be pressed into the material by the pull of the cups; and vacuum exerting means communicatively connected with the cups.

2,643,690
POCKET ROUTING MACHINE
Le Roy White, North Bend, Oreg.
Application August 25, 1951, Serial No. 243,708
3 Claims. (Cl. 144—136)



1. In combination, a table for the support of a panel flatly thereon, and a pocket router mechanism comprising a main frame that is fixed relative to and located above the table, a guide frame mounted on the said main frame for vertical movement downwardly against and upwardly from a panel as disposed on the table, a motor carrier frame mounted in the guide frame for horizontal shifting therein between definite limits, a motor rigidly mounted on the motor carrier frame and having a router head fixed to its drive shaft in position to cut a pocket in the panel to a predetermined depth by the movement of the said guide frame downwardly on the main frame and against the panel, a power means for effecting the vertical actuation of the guide frame, power means for effecting the horizontal actuation of the motor carrier frame in the guide frame, means for energizing the said power means including a means for controlling their sequence of operations that results in the movement of the guide frame downwardly and against the panel before the motor carrier frame is shifted.

2,643,691
HYDRAULIC LOG DEBARKER
Arthur G. Rockwood, Nutley, N. J., assignor to Worthington Corporation, Harrison, N. J., a corporation of Delaware
Application April 9, 1952, Serial No. 281,382
7 Claims. (Cl. 144—208)



4. In a hydraulic log debarker, an entrance conveyor for moving logs into and partly through the debarker, means for preventing displacement of logs on said conveyor comprising a pressure member including a pivoted frame, an endless log engaging chain carried by said pivoted frame and movable by engagement with a log as the log is moved by said entrance conveyor, an exit conveyor for moving logs out of said debarker, an extension on said pivoted frame, and a pressure roller carried by said extension for engagement with a log at the receiving end of said exit conveyor.

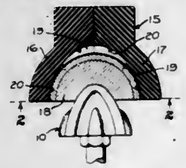
2,643,692
COMPOUND BORING TOOL
John J. O'Brien, Elmhurst, N. Y.
Application March 7, 1951, Serial No. 214,315
2 Claims. (Cl. 145—125)



2. A boring tool comprising a rigid straight rod having a drill at one end and means at its other end for connection of the rod to a rotating power mechanism, a disk fixed on the rod adjacent to said drill, a cutting tool mounted at a peripheral location on said disk and having a cutting portion tapering to a mere point which is disposed slightly outward of the circumference of the disk and obliquely forward in the direction of rotation of the disk, said drill being adapted to drill a pilot hole and to pilot a concentric cutting by said cutting tool, a larger diameter disk adjustably fixed on said rod and adapted to be adjusted axially toward and from the first mentioned disk, pilot means on the larger disk having exterior diameter for nicely fitting within the circle of cutting of said cutting tool on the first mentioned disk, said larger diameter disk being adapted to be fixed on said rod at a location relative to the first mentioned disk whereby said pilot means can enter the hole bored by the cutters of the first mentioned disk while the latter said disk continues in said hole, a cutting tool mounted at a peripheral location on the larger disk and having a cutting point disposed slightly outward of the circumference of the larger disk and projected obliquely outward relative to the peripheral surface of the larger disk to a point appreciably in advance of the larger disk and projected obliquely forward in the direction of rotation of the said disks, and a plurality of cutting blades on each disk having radially disposed cutting edges slightly in advance of the respective disks, the said cutting edges of the blades on the smaller disk being in a common plane and having radial extent for gradual removal of material outward of said pilot hole and within the circle of cutting of the cutting tool on the smaller disk, and the

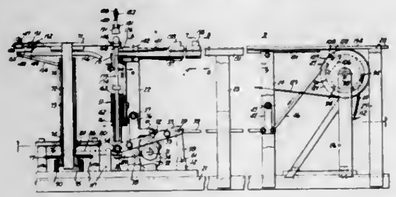
said cutting edges of the blades on the larger disk being in a common plane and having radial extent for gradual removal of material outward of the hole bored by the cutters on the smaller disk and within the circle of cutting of the cutting tool on the larger disk, said pilot means on the larger disk fitting and entering the hole bored by the cutters on the smaller disk while said smaller disk is within said hole.

2,643,693
REAMER
Carl Harden, Pasadena, Calif., assignor to Brown Citrus Machinery Corp., Whittier, Calif., a corporation of California
Application January 15, 1951, Serial No. 206,010
5 Claims. (Cl. 146—3)



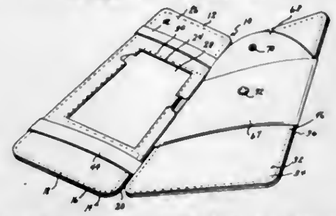
1. A reamer having a substantially paraboloid outer surface, the sides of the paraboloid having a plurality of spaced flutes extending longitudinally and terminating short of the crest of the reamer, the width of the flutes being substantially equal to that of the lands between the flutes, and pairs of said flutes being joined adjacent said crest.

2,643,694
MACHINE FOR STUFFING OLIVES
George W. Ashlock, Jr., Oakland, Calif.
Application May 31, 1949, Serial No. 96,324
18 Claims. (Cl. 146—27)



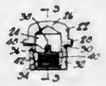
1. A machine for stuffing olives and the like comprising a pair of flat belts each having a carrying surface thereon; means for moving the belts over a path between a feeding station, whereat the carrying surfaces on the belts are substantially horizontal and in a side by side relation in a common plane, and a stuffing station, whereat the carrying surfaces on the belts are in a vertical plane and substantially parallel to one another and spaced apart only the width of a folded strip of stuffing material which is carried by the belts, means for advancing the belts toward the stuffing station to advance a strip of material to said station and project a portion of said strip beyond said belts; means for cutting a plug from that portion of the folded strip projected beyond said belts; means for positioning a fruit having a cavity therein in a position to receive said cut plug; and means for inserting the cut plug into the cavity in the positioned fruit.

2,643,695
SECRETARY TYPE POCKET WALLET
Robert M. Smith, Brownwood, Tex.
Application September 12, 1951, Serial No. 246,262
3 Claims. (Cl. 150—35)



1. A wallet comprising a first and second section having adjoining inner side edges, means formed on the inner face of the first section for retaining cards in an exposed fashion, said second section having a pocket in its outer face for retaining currency, means for closing said pocket, means hingedly connecting said sections together at their inner side edges so that they are foldable about their inner adjoining side edges to bring their inner faces into engagement, and a coin purse having side edges and transversely overlying in detached relation the inner face of the second section and secured at one of its side edges to the outer side edge of the second section and at its other side edge to the inner side edge of the first section.

2,643,696
DOMED LOCK NUT WITH CONTRACTABLE CORE
Otto R. Misch, South Bend, Ind.
Application October 13, 1947, Serial No. 779,527
3 Claims. (Cl. 151—19)

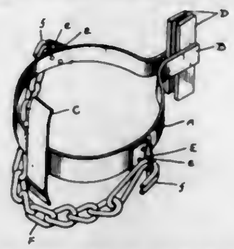


1. A lock nut of the domed type comprising a rigid cup-shaped outer part and a contractible inner part, said outer part having a bore extending partly therethrough and tapered from one end thereof for a portion of its length greater than the length of said inner part and of reduced diameter at its inner end portion to define a shoulder, said reduced bore being interrupted by a longitudinal notch open at said shoulder, said inner part being longitudinally split and having a tapered outer peripheral surface and a screw-threaded bore, and a lug projecting longitudinally from the large diameter end of said inner part and slidably received in said notch, the small diameter end of said tapered bore being smaller than the small diameter end of said inner part.

2,643,697
ANTISKID OR TRACTION DEVICE
Alexander C. Shill, New York, N. Y.
Application May 28, 1952, Serial No. 290,508
3 Claims. (Cl. 152—224)

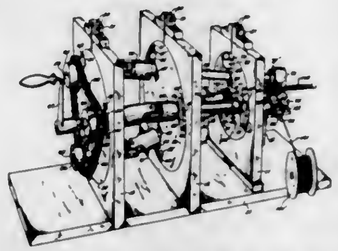
1. A traction device for detachable connection to a vehicle wheel comprising a disc having a rim and a tire mounted thereon, wherein the tire is of relatively large cross sectional area and the disc is relatively narrow, said device comprising a strip of spring metal bent to fit about the tire and rim and having juxtaposed end portions and lateral transverse extensions on

said end portions arranged to bear directly against the opposite sides of said disc and having other lateral extensions from a central portion of said strip arranged to bear against the tread of said tire at points displaced from said



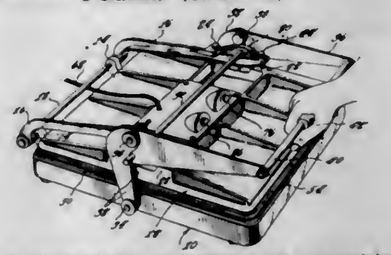
strip, and a chain having its ends connected to said strip at points at the opposite side of said tire, said chain being of such length that the portion thereof engaging the tread of the tire may trail slightly behind the portion of said strip adjacent the portion of the tread.

2,643,698
MACHINE FOR FORMING CONTINUOUS WIRE COILS
David E. Crooker, Ontonagon, Mich., assignor of one-half to Lloyd L. Felker, Marshfield, Wis.
Application January 12, 1950, Serial No. 138,225
8 Claims. (Cl. 153—64)



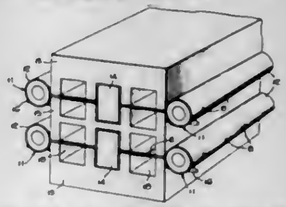
1. In a machine for manufacturing continuous wire coils, a freely rotatable mandrel having an exposed end portion which is adapted to receive an extent of wire therearound forming one convolution of a coil; a source of supply of wire; a plurality of spaced rollers disposed adjacent said end portion of the mandrel and biased with respect thereto on convergent axes, said rollers being located so that their peripheries engage said coil convolution as well as portions of the coil beyond the end of the mandrel; and means for causing simultaneous rotation of said rollers, said rollers being so disposed with respect to said mandrel and coil that when said rollers are rotated the coil and mandrel are rotated to draw wire around the mandrel from said source of supply and to deliver coiled wire longitudinally off of the mandrel end portion, the axially convergent disposition of said rollers being such that the peripheral portions of said rollers which are in engagement with portions of the coil beyond the end of the mandrel are positioned closer to the mandrel axis than the portions engaging the coil convolution on the mandrel, to thereby provide a gripping action on the portion of the coil beyond the end of the mandrel.

2,643,699
DRY MOUNTING PRESS
Theodore H. Krueger, Stratford, Conn., assignor to Seal Incorporated, a corporation of Connecticut
Original application July 29, 1948, Serial No. 41,378. Divided and this application August 22, 1950, Serial No. 180,734
8 Claims. (Cl. 154—1)



1. A photographic mounting press, comprising a bed, a platen, hinge members hinged to the bed to which the platen is adjustably secured, toggle links pivotally connected to opposite sides of the bed near the longitudinal center thereof, toggle levers pivotally connected to the toggle links, means for manually operating said togggle levers, and means for pivotally connecting the toggle levers to the hinge members at points so near to the longitudinal center of the platen that a substantially balanced closing pressure is applied by direct action of the toggle levers without substantial strain on the hinge connection between the bed and platen.

2,643,700
METHOD AND APPARATUS FOR MANUFACTURING CYLINDRICAL BODIES
Glenn G. Havens, San Diego, Calif., assignor to Narmco, Inc., San Diego, Calif., a corporation of California
Application October 22, 1951, Serial No. 252,527
14 Claims. (Cl. 154—1)



1. A process for forming cylindrical bodies comprising wrapping a resin-impregnated material about a mandrel, positioning a sheet of binding material on a section having a keyway therein, clamping said sheet in said section with a mating key, drawing said sheet around the wrapped mandrel and over the said mating key, clamping said mandrel and said sheet by positioning over said mating key a second section having a keyway adapted to receive said key, maintaining said sections tightly together, and heating the wrapped mandrel to cure the resin-impregnated material.

11. In a device of the class described for curing a resin-impregnated material while enclosed by a binding sheath the combination of a curing fixture comprising one section having a longitudinal keyway therein; a mandrel about which

said impregnated material is wrapped; said binding sheath enclosing said mandrel and a binding bar adapted to fit within said keyway to bind said sections, sheath and mandrel together.

2,643,701

REACH ASSEMBLY FOR CYCLE SADDLES

Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio

Application November 1, 1949, Serial No. 124,801

2 Claims. (Cl. 155—5.24)



2. A reach rod and saddle post connection comprising a reach rod of the generally V-shaped type having a pair of generally longitudinally extending legs substantially parallel throughout the length thereof, each of said legs being provided with a hump portion in its foremost portion, a concave depression centrally thereof and a hump at its rearmost portion, said legs extending laterally of the said rearmost hump, a substantially vertically extending post, a reach rod receiving plate member having an aperture therein, said plate being provided with a forwardly disposed hump portion and a rearwardly arched portion, said plate having a pair of grooved generally longitudinally extending guideways disposed therein adjacent the lateral sides thereof, the longitudinally extending portions of said legs being seated therein, a generally rectangular washer element having an opening centrally therein corresponding to the aperture in said plate member, the post being projected through the aligned aperture in said plate member and said washer element, the upper end of the post being riveted over said washer element distorting said element to approximate in cross-section the formation of the underlying plate portion whereby guideways are formed in said washer element, said plate member being provided with a pair of flared ends and a rearwardly disposed lip portion extending downwardly and outwardly from said pair of flared ends, adapted to seat the laterally extending ends of said reach rod legs whereby the reach rod assembly is supported by said plate throughout its longitudinal and laterally extending portions.

2,643,702

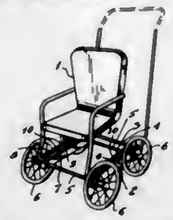
RUNNING GEAR UNIT WITH REMOVABLE CHAIR

Jacob Berger, New York, N. Y.

Application May 11, 1950, Serial No. 161,327

3 Claims. (Cl. 155—41)

1. A vehicle having a running gear, a seat and a back, two arm supports disposed from the said back in forward direction above said seat, two leg members extending from said seat downwardly, said leg members being bent into two parallel and substantially horizontally disposed portions spaced apart a predetermined distance, adapted to rest on the ground when used as a chair, and said running gear having two parallel axles, each having two wheels, two longitudinally extending members connecting the axles, one of said members including a channel member of predetermined length, the channel facing inwardly, the other of said longitudinally extending members including a bar the portion thereof facing the said channel member being of non-channel configuration, said channel member receiving one of said horizontally disposed leg portions of the chair, the other horizontally disposed leg portion being supported by said axles in abutting relationship to the other longitudinal member, whereby said chair is secured to said running gear substantially by a downward movement of the said chair followed by a subsequent side movement towards and into the said channel member.



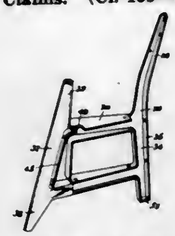
2,643,703

SIDE FRAME FOR CHAIR-DESKS

Sumner C. Willis and Laurence W. Brulin, New York, N. Y., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey

Application March 2, 1950, Serial No. 147,282

2 Claims. (Cl. 155—128)



1. A side frame for a chair-desk, said side frame comprising a unitary metal sheet fabricated to form a substantially horizontal middle portion forming a chair seat support, a continuous rear portion depending below the seat support to form a rear chair leg and extending above the seat support to form a chair back support, and a continuous front portion depending below the seat support to form a front chair leg and extending above the seat support to form a desk top support, the forward marginal edge of said continuous front portion being curled inwardly from the plane of the aforesaid portions and thence rearwardly and outwardly to form a continuous tubular column.

2,643,704

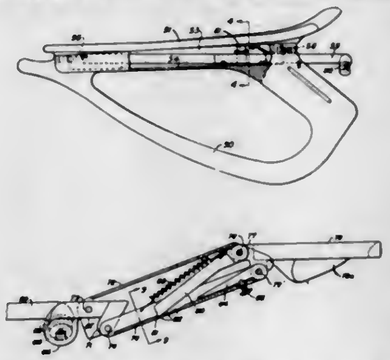
MEDICAL PRACTICE CHAIR WITH FOOT SUPPORTING STIRRUPS

Norman E. Lauterbach, Newark, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware

Original application July 2, 1946, Serial No. 680,983. Divided and this application October 1, 1949, Serial No. 119,097

4 Claims. (Cl. 155—172)

1. A chair comprising a seat, guideways extending forwardly at the sides of said seat, rods slidable in said guideways, extensions hinged at the forward ends of said rods, stirrups hinged on said extensions, and means for maintaining said stirrups substantially horizontal during vertical movement of said extensions, said stirrups being adjustable forwardly and rearwardly and in elevation relatively to said seat by said sliding and hinged movements of said rods and extensions.



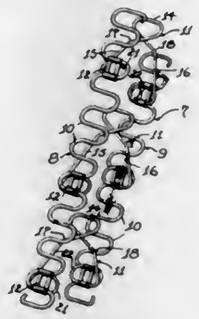
2,643,705

WIRE SPRING STRUCTURE

William H. Neely, Cleveland, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio

Application April 15, 1948, Serial No. 21,141

3 Claims. (Cl. 155—179)



1. In a wire spring structure axially spaced, elongated, zig-zag shaped wire strips and V-shaped integrally formed wire members arranged between said wire strips for spacing same, each of said wire members including a V-shaped middle portion formed by two laterally spaced, cooperating loop portions and providing the V-shaped wire member with a sharp-edged apex positioned in symmetrical, angular relation midway between the ends of the wire member, straight wire arm portions integrally extended from the cooperating loop portions of said middle portion and loop portions integrally extended from the ends of said wire arm portions in angular relation with respect thereto to permit proper engagement of such loop portions with the said zig-zag shaped wire strips.

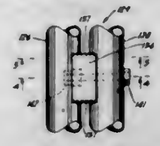
2,643,706

TUBULAR FURNITURE CONSTRUCTION

William N. Brown, Fort Wayne, Ind., assignor to Arnolt Corporation, Warsaw, Ind., a corporation of Indiana

Original application February 10, 1948, Serial No. 7,332. Divided and this application October 6, 1949, Serial No. 119,922

5 Claims. (Cl. 155—194)



5. In a furniture frame structure, a pair of separately formed tubular frame members respectively affording elongated securing portions, said securing portions being disposed in spaced parallel relation, a substantially U-shaped spacer element having limb portions lying between said portions in a transverse relation thereto, said portions being provided with spaced locating holes on the proximate faces thereof, said spacer element having lugs thereon complemental to and extended into said spaced locating holes, a nut fixed in such face of one of said frame members, and a clamping bolt extended diametrically through the other of said frame members and threaded into said nut to clamp said portions together with the spacer element therebetween whereby the portions are held against rotation about their axes.

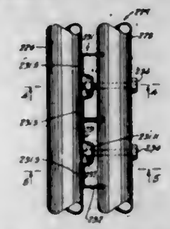
2,643,707

TUBULAR FURNITURE CONSTRUCTION

William N. Brown, Fort Wayne, Ind., assignor to Arnolt Corporation, Warsaw, Ind., a corporation of Indiana

Original application February 10, 1948, Serial No. 7,332. Divided and this application October 6, 1949, Serial No. 119,923

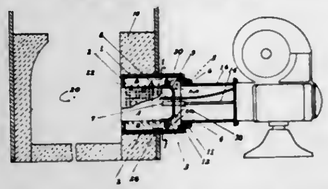
4 Claims. (Cl. 155—194)



1. In a furniture frame structure, a pair of tubular frame members having securing portions disposed in transversely spaced side by side relation to each other, a bracket having a base extending along and rigidly secured to the inner side surface of one of said securing portions and provided at its ends with limbs extending from the base laterally of the said securing portion toward the second securing portion and having V-shaped notches formed in their outer ends, the second securing portion having its inner side portion formed with transversely extending wedging surfaces fitting into the V-shaped notches of the said limbs, the base of said bracket having a portion offset from the first securing portion midway the limbs and formed with an opening, the second securing portion being formed in inner

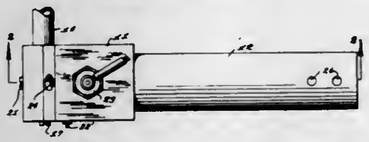
and outer side portions with openings aligned with the opening in the said offset portion, a nut in the space between the said offset portion and confronting surface of the first securing portion, and a bolt passed through the said aligned openings and threaded through said nut and tightened to apply pressure to and firmly hold the second securing portion in the V-shaped notches of the limbs.

2,643,708
OIL BURNER CARBURETION
Morris Sherman, Port Washington, N. Y., assignor to Preferred Utilities Manufacturing Corp., New York, N. Y., a corporation of Delaware
Application May 4, 1945, Serial No. 591,957
3 Claims. (Cl. 158—28)



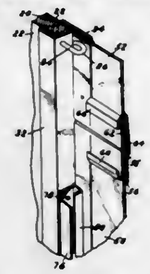
2. In an oil pressure atomizing burner, an atomizing nozzle, adjacent ignition means, means for pumping oil through said nozzle, an air tube, fan means for supplying air to said tube to meet the oil adjacent the nozzle, a tubular cylinder provided with many perforations closely spaced both circumferentially and axially and generally distributed over substantially the whole cylindrical surface, said cylinder being positioned within the air tube to form a jacket, the jacket being connected to the fan for receiving substantially all of the air supply to be directed through the cylinder perforations in many small pressure jets, said nozzle being positioned axially to discharge directly into the rear portion and generally lengthwise of the cylinder across such jets, the perforated part of said cylinder extending from the place of oil discharge and far enough inside the air tube to substantially complete oil and air mixture inside the cylinder for both starting and continuing a substantial part of the fuel combustion in said cylinder before the mixture leaves the cylinder.

2,643,709
ELECTRICALLY IGNITED GAS PILOT
Frank J. Haverland, Chicago, Ill.
Application April 21, 1950, Serial No. 157,356
3 Claims. (Cl. 158—115)



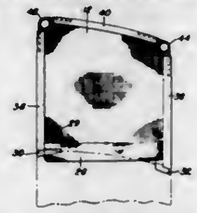
1. An igniter for fuel burners comprising a hollow body open at one end and closed at the other end, a partition extending transversely of and spaced from the closed end of said body and forming with the closed end and adjacent portion of said body a mixing space, said body having an air port intermediate its closed end and said partition and in communication with said mixing space, a first tube shaped to comformably fit the open end of said body having one end extending into the open end of said body and abutting said partition and secured to said body, a second tube disposed coaxially of and within and spaced from said first tube, said second tube extending through said partition and said mixing space and having one end secured to the closed end of said body, the other end of said second tube terminating at a point positioned within and spaced from the other end of said first tube, said body adjacent the closed end thereof being provided with a fuel admission passage having one end adapted to be connected to a fuel supply line and having the other end in communication with said one end of said second tube, there being a passage extending longitudinally through said partition intermediate said first and second tubes and forming an ignition space, said ignition space being in communication with said mixing space and the space between said first and second tubes, and spark means within said ignition space and supported in said body, said second tube in the portion within said mixing space being provided with a plurality of apertures for the discharge of fuel from said second tube into said mixing space and in the portion intermediate its other end and said partition being provided with a plurality of longitudinally spaced apertures.

2,643,710
WINDOW ASSEMBLY
Joseph Sylvan, Berkley, Mich.
Application May 14, 1949, Serial No. 93,385
6 Claims. (Cl. 160—90)



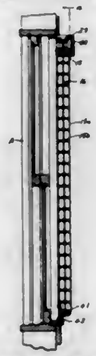
1. In a window sash carrying frame having a pair of side rails, a bottom rail and a top rail, said side rails provided with opposed complementary outer guide walls for the sash, a pair of sashes disposed in superposed relationship within the frame bearing against said guide walls, each side rail of the frame provided adjacent one end of the frame with a sash guide channel having a wall spaced laterally inwardly from said guide wall forming therewith a second window channel for one of said sash, said first mentioned guide channel having walls of a height not greater than the window sash for which it forms with the outer guide wall the second mentioned channel, a window sash retaining element rotatably mounted upon each side rail of the frame intermediate the end of said first mentioned guide channel and the adjacent end of the frame, said window sash retaining element having a part adapted upon rotation of the element to one position to be substantially in line with the inner window sash engaging face of the second mentioned channel and adapted in another position of rotation to be offset inwardly and out of line with the inner window sash engaging face of the second mentioned channel.

2,643,711
SCREEN FOR VEHICLES
Lucy H. Smith, Naval Base, S. C.
Application October 9, 1950, Serial No. 189,186
2 Claims. (Cl. 160—105)



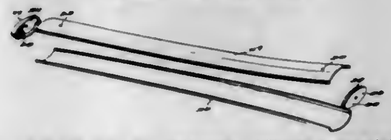
1. A screen for vehicle windows comprising a body of pliable reticulated material, a frame secured to said body for mounting the same, said frame having side and top members adapted to seat in the channel members of a vehicle window, spaced shoes respectively on said side members for embracingly engaging the upper edge of a window glass, and resilient means connecting said top to said side members for yieldingly urging said members against said window channel members.

2,643,712
VENETIAN BLIND
John W. Dunn, Alhambra, Calif., assignor to Cal-Alloy Castings, Inc., Glendale, Calif., a corporation
Application June 24, 1946, Serial No. 678,828
3 Claims. (Cl. 160—167)



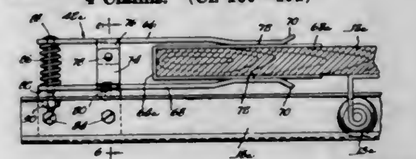
1. In combination, a window or the like, a window frame, a Venetian blind comprising tiltable slats, supporting means for mounting the blind upon the window frame, and means for tilting the slats and simultaneously operating the blind to move it bodily relatively toward and away from the window, the blind comprising also a tiltable bottom rail, tiltable with the slats, and hold down means for the bottom rail comprising a pair of guide brackets, each bracket having a guide slot having a horizontally extending portion and a vertically extending portion, and a pair of hold down pins at each end of the bottom rail and receivable in the guide slot of a respective guide bracket, one pin of each pair being arranged on the tilting axis of bottom rail and slidable in the horizontally extending portion of its respective guide slot, the other pin of each pair being spaced from the first pin so as to be disposed inwardly of the guide slot relatively to the first pin and slidable in the vertically extending portion of its respective guide slot while the first pin is disposed in the horizontally extending portion of its respective guide slot.

2,643,713
VENETIAN BLIND
Siegfried F. Mayer, Lock Haven, Pa., assignor to May-Sloan, Inc., Lock Haven, Pa., a corporation of Pennsylvania
Application August 1, 1950, Serial No. 177,112
4 Claims. (Cl. 160—178)



1. A base bar for Venetian blinds comprising a pair of transversely rounded complemental sections adapted for interfitting engagement to form a tubular member, one of said sections being formed of a resilient material and in its free condition being bowed along its length, and removable cap means adapted to engage the ends of the sections to bow the one section in an opposite direction to tensionally hold said sections in assembled relation.

2,643,714
OVERHEAD DOOR STRUCTURE
Cecil R. Wolf, Rock Falls, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application August 10, 1950, Serial No. 178,671
4 Claims. (Cl. 160—191)

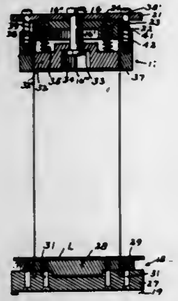


2. In a door construction, a door shiftable substantially edgewise between closed and opened positions, means providing substantially parallel braking surfaces on opposite faces of said door, a pair of tracks having substantially horizontal portions for guiding said door from closed to opened position, means providing a pair of spaced parallel braking surfaces carried by said tracks and positioned to engage the braking surfaces on said door as said door approaches one of said positions, and means resiliently biasing the braking surfaces carried by said tracks toward one another, positive means controlling the extent of said resilient biasing, the contacting areas of said surfaces and hence the braking areas thereof increasing with movement of said door following initial engagement of said braking surfaces.

2,643,715
CUTTING DIE MOUNTING AND EJECTOR
Joseph E. McClellan, Oakland, Calif., assignor to himself and La Verne S. McClellan, Oakland, Calif., as joint tenants
Application June 10, 1948, Serial No. 32,097
2 Claims. (Cl. 164—33)

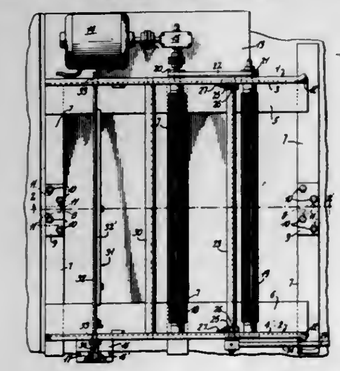
1. In a machine for cutting blanks from workpieces of fibrous sheet material, a support mem-

ber carried by the machine for its axial reciprocation toward and from the workpiece and comprising a rod mounting a nut at an end thereof and providing a shoulder opposite said nut in spaced facing relation thereto, and a cutting die comprising a base member intermediately aind slidably receiving the rod portion between the shoulder and nut and normally seated against the shoulder, a continuous cutting blade extending fixedly from said base member, a presser-foot member having a forward face for engaging the opposed face of a work-piece and normally having its forward face disposed be-



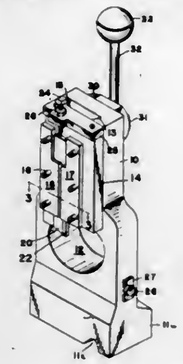
yond the blade edge, said presser-foot member being reciprocable within the blade-bounded space of the blade and slidably receiving the rod portion between the base member and the nut and being displaceable along said rod portion toward the base member to a limiting position in which it contacts the base member and being provided with a recess extending inwardly from its forward face for constantly and freely receiving the nut, and means yieldingly urging a mutual separation of the base and presser-foot members to a limit imposed by the shoulder and nut of the rod.

2,643,716
MEANS FOR CUTTING THE WRAPPER FROM ROLLS OF NEWSPRINT AND THE LIKE
Willard L. Oelkrue, Oil City, Pa.
Application December 4, 1950, Serial No. 198,952
4 Claims. (Cl. 164—39)



1. In a wrapper cutter for wrapped rolls of newsprint and the like of the type which includes a guiding frame for a roll adapted to operatively support a knife for longitudinally slitting the wrapper of a roll guided by said frame, a pair of opposite parallel side members of angular cross-section constituting the guiding elements of said frame, having supporting base flanges and upstanding side flanges spaced apart a distance substantially the width of a roll, defining between them a passage for guiding the roll, frame cross members bridging the space between said side members and secured thereto, wrapper end severing means carried by said frame including spaced parallel driven rollers transversely bridging said frame, journaled in bearings in said upstanding side flanges, by means of which rollers the roll is stably supported, and revolved, an oscillatable knife shaft journaled in said side flanges between and below said rollers and parallel thereto, knives at opposite ends of said knife shaft within said frame, in the same phase, an operating lever at one end of said shaft outside said roll passage, a stop carried by said frame for supporting said lever with the knives in abstract cutting position, said shaft being yieldable under contact pressure of a roll resting upon said rollers, with said knives, to displace the latter from cutting position and raise said lever from its support, whereby cutting of the ends is effected at will by forcing said lever against said stop.

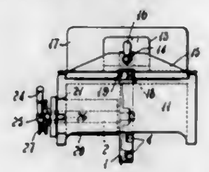
2,643,717
LATHE ATTACHMENT
Jasper Mazar, Binghamton, N. Y.
Application September 30, 1946, Serial No. 700,212
9 Claims. (Cl. 164—47)



1. A lathe cutting-off attachment adapted to be mounted from the bed-ways of an existing lathe and to be positioned in forwardly spaced relation with respect to the head stock and about the spindle nose of the lathe comprising an upright frame having an opening for the reception of the spindle nose and work securing collet contained therein, said frame including a base having provision for adapting the frame to the lathe bedways and for securing it in position wherein the collet extends a small distance forwardly of the frame front-face, a cut-off blade carried by said frame forwardly of the front face thereof to operate in a vertical plane which clears but is close to the collet and being normally disposed above the work, means mounting said blade for vertical travel and in position such that its cutting edge is vertical to the spindle and collet axis and hence to the center line of the work, manual means operative in the space between the head stock of the lathe and said upright frame

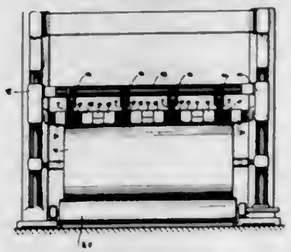
for positively actuating said blade downwardly into engagement with the work secured by said collet, and means for effecting return of said blade to its normal raised position upon release of said manual means.

2,643,718
MACHINE FOR CODE MARKING LABELS, WRAPPERS, CARTONS, OR THE LIKE
Maurice Oswald Sauven, Ealing, London, England
Application November 13, 1950, Serial No. 195,244
In Great Britain August 3, 1949
13 Claims. (Cl. 164—61)



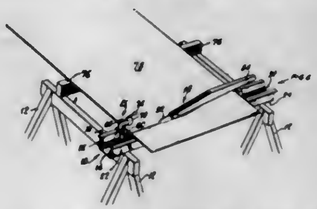
1. A machine for code marking labels, wrappers, cartons or the like, wherein the coding member comprises a rotary disc which is formed in one side face with a plurality of radially directed recesses of different depths measured from said side face of the disc, a series of cutting blades each mounted in a recess and in different planes parallel with the said side face of the disc and with their cutting edges in juxtaposition to the periphery of the disc, and means for mounting each of said blades for radial adjustment so that each blade can be selectively set with its cutting edge projected to an operative position beyond the periphery of the disc or retracted to an inoperative position beneath the periphery of the disc.

2,643,719
WEB-SLITTING MACHINE WITH MINUTELY VARIABLE CUTTING-ROLL EQUIPMENT
Max Schneider, Dusseldorf, Germany
Application April 20, 1950, Serial No. 157,032
In Germany May 30, 1949
12 Claims. (Cl. 164—70)



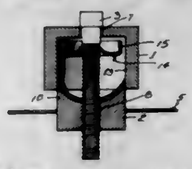
1. A cutting roller equipment for web-slitting machines designed to slit running webs of paper, carton or the like, in any width whatever above a minimum, said equipment being adjustable in steps, for instance from millimeter to millimeter, comprising a roller and individual cutting sleeves arranged in spaced fashion on the roller, each of said sleeves being of equal width and having cutting grooves of equal width, the cutting grooves on each cutting sleeve being variably spaced with respect to the outer edges of the sleeve.

2,643,720
APPARATUS FOR CUTTING SHEET MATERIAL
William S. Miles, Hastings on Hudson, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application May 27, 1948, Serial No. 29,583
4 Claims. (Cl. 164—73)



1. An apparatus for cutting hard frangible sheet material comprising, a base including opposed members defining a generally channel-shaped track, said track having laterally directed flanges providing flat substantially co-planar upper surfaces for supporting the sheet material, a carriage including opposed, laterally directed flange strips providing flat substantially coplanar upper surfaces and the opposed edges of which define a slot, said carriage having additional laterally directed flanges engaging the track and supporting the carriage for traveling movement on said track with the upper surfaces of said carriage flange strips substantially coplanar with the upper surfaces of the track flanges, a cutting blade, and means supporting said cutting blade from said carriage for swinging movement in said slot and shearing cooperation with said opposed carriage flange strips.

2,643,721
PUNCH WITH SLUG EXTRACTING MEANS
Frederick M. Arbuckle, Allenhurst, N. J., assignor to Radio-Television Institute, Inc., New York, N. Y., a corporation of New York
Application March 6, 1947, Serial No. 732,811
4 Claims. (Cl. 164—101)



3. In a sheet metal punch, a combination of a female member having a cavity therein and an end wall having a hole therethrough, the edge of the cavity forming a cutting edge, a headed bolt projecting loosely through the hole in the end wall of the female member, the hole in the end wall being smaller than the bolt head to limit its movement in one direction by the head of the bolt, a male member threadedly engaging the bolt and having a cutting edge slidable within the cavity and cooperating with a cutting edge on the female member, an extracting means of a size to be insertable inside the cavity of the female member above the metal to be punched, yielding projections on the extracting means engaging the threads of the bolt at an angle with respect thereto to flex outwardly when the bolt is moved in one direction axially relative to the

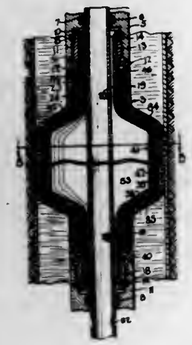
extracting means and non-flexibly engaging the threads on the bolt when the bolt is moved in the opposite direction, said extracting means adapted to engage and eject a punched slug from the cavity of the female member upon driving of the bolt in the ejecting direction through the female member.

2,643,722

HYDRAULICALLY INFLATABLE PACKER

John Lynes, George H. Allen, and Jimmy D. Gardner, Houston, Tex., assignors to Lynes, Inc., Houston, Tex., a corporation of Texas

Application February 26, 1948, Serial No. 11,214
11 Claims. (Cl. 166—10)



1. A hydraulically inflatable packer for providing a seal in wells comprising, end heads, a skirt extension on each head, a reinforcing flexible, annular sheath between said heads and having its ends bearing against the inside of the skirt of each head, an inner, elastic sealing tube confined by said sheath, a cover of elastic material overlying said sheath and said skirt, and means to clamp the ends of said sheath inside said skirt so as to retain said sheath against the inflating pressure comprising a radially tapered collar in each end of said sheath.

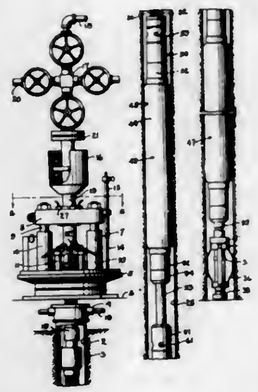
2,643,723

OIL WELL TOOL

John Lynes, Houston, Tex., assignor to Lynes, Inc., a corporation of Texas

Continuation of application Serial No. 510,293, November 15, 1943. This application December 11, 1947, Serial No. 791,120
1 Claim. (Cl. 166—11)

A well packer tool comprising a hollow operating control pipe, a housing about said pipe and slidably mounted on said pipe, an inflatable packer carried by said housing, there being an opening in said pipe for communicating with the interior of said packer for inflation and deflation thereof, said pipe having an opening in the lower end thereof below said packer, a head slidably mounted on said pipe below said packer for covering and uncovering said port in the lower end of said pipe, drag spring means on said head for engaging the wall of the well as the tool is lowered to maintain said head in a position on said pipe to uncover said port as the tool is lowered into the wall, said spring means acting to retard movement of said head relative to said pipe as the tool is raised in the well so as to cover said port in the lower end of said pipe.

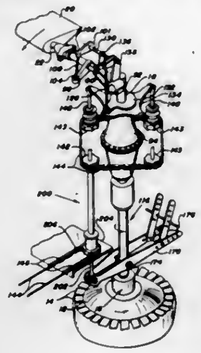


2,643,724

HELICOPTER ROTOR

Igor I. Sikorsky, Bridgeport, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application February 21, 1947, Serial No. 730,049
3 Claims. (Cl. 170—135.72)



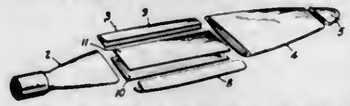
1. In a helicopter, in combination, an engine driven shaft, a rotor drive shaft, a blade pivotally mounted on said drive shaft for lagging and leading movements in the plane of its rotation and for pitch changes, a blade pitch changing horn on said blade, torque responsive means connecting said shafts, means for increasing blade pitch upon torque increase and decreasing blade pitch upon torque decrease toward an optimum auto-rotational no-torque pitch including linkage means operatively connecting said torque responsive means with said blade horn, said linkage means also including means for decreasing the pitch of said blade as the latter lags back in its plane of rotation and for increasing the pitch thereof as said blade moves forward.

2,643,725

ELECTRICALLY WELDED HOLLOW STEEL PROPELLER BLADE AND METHOD OF MAKING SAME

William C. Heath, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Original application March 26, 1942, Serial No. 480,682. Divided and this application January 12, 1950, Serial No. 138,142
26 Claims. (Cl. 170—159)



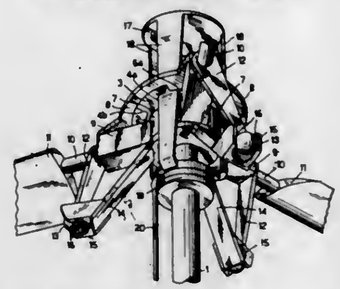
21. A hollow metallic propeller blade comprising a pair of plates comprising flattened thrust and camber members disposed in facing relation and defining an interior chamber, and a reinforcing rib integral with one of said plates and extending into said chamber from the inner side only of said plate, said reinforcing rib being uninterrupted and disposed crosswise with respect to the longitudinal axis of said propeller blade and extending from a point adjacent the blade trailing edge to a point adjacent the blade leading edge, the surface of said reinforcing rib which faces the other plate being spaced from the interior surface thereof.

2,643,726

EMERGENCY LANDING PITCH CONTROL MEANS ON A HELICOPTER ROTOR

Adolf Muther, Zurich, Switzerland

Application February 7, 1950, Serial No. 142,909
In Switzerland January 7, 1950
4 Claims. (Cl. 170—160.46)



1. In a helicopter, a drive shaft, a set of blades extending radially from said shaft at angularly spaced positions, said blades having shanks at their inner ends, a first clutch portion mounted on said shaft and provided with a set of bearings for the shanks of said blades, a second clutch portion mounted on said shaft in operative relation to the first clutch portion, both of said clutch portions having sets of inter-engageable surfaces facing respectively in both directions of drive, said surfaces of one set being spaced apart in one direction when the other set is in driving engagement, so that the clutch portions are relatively turnable to a limited extent about the drive shaft, axial wedge-shaped elements located in the spaces between the engageable surfaces of the clutch portions, for gradually positioning the blade shanks, a blade setting mechanism mounted axially slidably on the drive shaft and connected with said wedge-shaped elements and comprising an operating lever and control devices connected with the blade shanks to turn said shanks and their blades about their individual longitudinal axes to change their angles when the operating lever is actuated, and springs connected between said clutch portions to be put under stress upon relative turning of the clutch portions, for returning clutch portions and blades to the opposite position.

2,643,727

SOUND TRANSMITTING DEVICE WITH AN ELLIPSOIDAL REFLECTOR

Joseph Léon, Choisy-le-Roi, France, assignor, by mesne assignments, to "Elipson" S. A., Paris, France, a society of France

Application May 20, 1950, Serial No. 163,241
In France January 31, 1950
3 Claims. (Cl. 181—31)



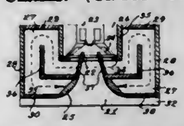
1. A sound transmitting device which comprises, in combination, a loud speaker diaphragm and a concave sound reflector in the form of a portion of an ellipsoid having one focus located at the center of said diaphragm, said ellipsoid portion being limited by a plane at right angles to the general plane of said diaphragm and which intersects the ellipsoid axis between said focus and the other one, whereby the second focus is located on the outside of said reflector, the line extending from the center of said diaphragm at right angles to the general plane thereof toward said sound reflector making with the line extending from said diaphragm center toward the other focus an acute angle such that said other focus is located at a short distance ahead of the surface which limits the ellipsoidal surface of the sound reflector.

2,643,728

HIGH FIDELITY LOUD-SPEAKER CABINET

William R. Anthony, San Juan, P. R.

Application August 15, 1951, Serial No. 241,943
4 Claims. (Cl. 181—31)



1. A loud speaker cabinet comprising a main housing having a top wall, a bottom wall, respective side walls connecting said top and bottom walls, wall means extending between said top and bottom walls connecting the rear portions of said side walls, and a front wall extending between said top and bottom walls and connected to the forward portions of said side walls, said means including a chamber arranged to receive an acoustic driver unit, said chamber having a forward wall formed with an opening, said front wall including a pair of rearwardly convergent vertical wall elements extending between said top and bottom walls, said vertical wall elements having rear end portions which are reduced in

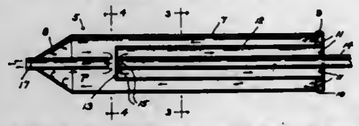
height and which extend into but are spaced from the side edges of said opening, and respective inner vertical baffles connected to and extending from the intermediate portions of said convergent wall elements into the opposite side portions of the main housing between the respective side walls thereof and said chamber, said baffles extending between said top and bottom walls and being spaced at their free vertical edges from the inner vertical surfaces of the housing to define respective folded air conduits of relatively low resonant frequency communicating with said opening, the vertical height of said reduced rear end portions being substantially less than the vertical height of the opening, whereby said folded air conduits communicate with each other adjacent said opening and define a resultant air chamber having a still lower resonant frequency.

2,643,729
AUDIO PICKUP DEVICE
Charles C. McCracken, Chicago, Ill.
Application April 4, 1951, Serial No. 219,243
1 Claim. (Cl. 181—34)



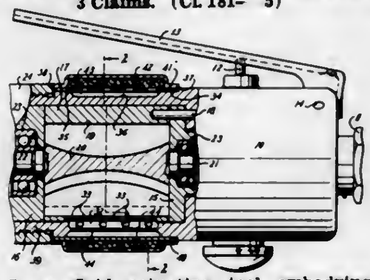
In a hearing aid having a microphone element, the combination of a case for the hearing aid and an audio pickup device, the latter comprising means defining a canal for conducting an audio wave to the microphone element disposed within said case, and an audio filter shield arranged at the outer end of said canal and generally surrounding the same, said filter shield including a flared portion lying predominantly on one side of said canal and including a tablike projection on the opposite side of said canal partially overlying its outer end, the outer surface of said flared shield portion being interrupted by smoothly merging arcuate ridges and valleys and terminating in a curled peripheral flange, said filter shield being integrally formed with said case and lying generally in a plane parallel and closely adjacent the outer surface of said case.

2,643,730
RETROVERTED PASSAGE TYPE EXHAUST SILENCER
Arthur Beattie, San Bernardino, Calif.
Application November 23, 1951, Serial No. 257,891
1 Claim. (Cl. 181—53)



A silencer for the exhaust conduit of an automobile grease rack operated by fluid pressure comprising an elongated outer jacket having a tapered outer end and an annular outwardly bulged inner end forming an increased internal air passage communicating with an enlarged air passage within said jacket, an inner jacket centrally secured to the inner surface of the inner end of the outer jacket in spaced relation thereto and having a plurality of exhaust ports opposed to the aforesaid annular bulged inner end of the outer jacket, a main exhaust tube centrally extending into the inner jacket with its outer end sealed against and secured to the inner surface of the outer closed end of the inner jacket and provided with a plurality of exhaust ports adjacent the closed outer end of the inner jacket, a discharge tube secured to the apex of the outer jacket in axial alignment with the inner and outer jackets and extending inwardly with its inner open end spaced from the adjacent and opposed closed outer end of the inner jacket, and means securing the silencer to the aforesaid exhaust conduit.

2,643,731
ROTATABLY MOUNTED MUFFLER ASSEMBLY
Paul E. Schmid, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application October 30, 1948, Serial No. 57,570
3 Claims. (Cl. 181—5)

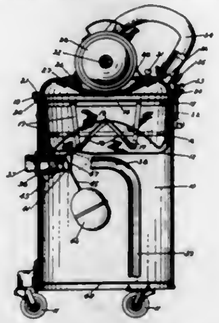


1. In a fluid actuating tool embodying a housing having two longitudinally spaced cylindrical bearings and an exhaust chamber into which flows exhaust fluid, the combination of an exhaust muffler comprising a sleeve, rotatably mounted on said bearings in concentric relation with said exhaust chamber to define between said bearings an intermediate chamber, said housing having ports therein providing communication between said exhaust chamber and said intermediate chamber, a ring secured to said sleeve in concentric relation therewith and defining a muffler chamber, porous material disposed in said muffler chamber, said sleeve having ports therein providing communication between said intermediate chamber and said muffler chamber, said ring having ports therein communicating with said muffler chamber, said intermediate chamber having a volumetric capacity greater than that of the exhaust chamber and said muffler chamber having a volumetric capacity greater than that of said intermediate chamber for discharging the exhausting fluid through the ports of said ring at a reduced pressure.

2,643,732
VACUUM CLEANING MACHINE
Hermon C. Keen, Brazil, Ind., assignor to Continental Car-Na-Var Corporation, Brazil, Ind., a corporation of Indiana
Application September 27, 1951, Serial No. 248,479
6 Claims. (Cl. 183—35)

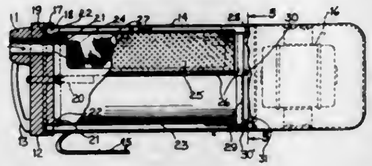
1. In a vacuum cleaning machine, a tank having a floor and a side wall; a filter medium in

the upper portion of the tank; an air pump carried by said tank; means selectively interconnecting the intake and the discharge of said pump for air flow through said filter respectively from and into said tank; a conduit leading downwardly by a length from an opening through the tank wall on the side of said filter removed from said pump intake and discharge flows to a lower end adjacent to but spaced above the tank floor; passageway means at a level in the tank above said conduit lower end opening to the exterior of the tank; a valve



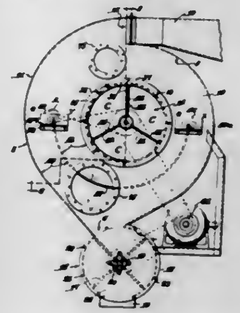
across said passageway means normally biased to a position closing said means, opening under a tank external pressure exceeding the tank internal pressure, and closing upon a tank internal pressure in excess of the external pressure providing a tank discharge passageway flow from said conduit lower end opening through the conduit and out said tank wall opening; and float operated means breaking the vacuum within said tank upon a predetermined degree of filling of the tank with liquid entering through said conduit.

2,643,733
DUST COLLECTOR
Norman C. Shellman, Rye, N. Y., assignor of one-half to Edward H. Yonkers, Jr., Glencoe, Ill.
Application July 14, 1949, Serial No. 104,735
1 Claim. (Cl. 183—37)



A device of the class described comprising an elongated housing substantially circular in cross section and having a suction motor arranged within and at one end portion thereof, a suction intake cap removably secured to the housing at the end opposite said one end portion and having an opening therethrough extending substantially parallel with and at one side of the transverse axis of the cap, a collector substantially elongated and circular in cross section removably arranged within the housing and supported therein by the cap with the side walls thereof in parallel spaced relation to the side walls of the housing, said collector having an elongated opening formed in its side walls in its upper half portion, a filter plate hingedly secured to the collector and closing said opening, said collector having an end wall the lower half of which provides an opening, and a trap door closing the opening of said end wall, said opening of said cap having its long axis on a line parallel and adjacent to the inner surface of the filter plate to direct air directly from said opening across said inner surface to remove dirt particles or the like therefrom.

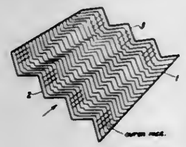
2,643,734
TANGENTIAL PNEUMATIC SEPARATOR
Lorne A. Rowell, Lachine, Quebec, Canada, assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada, a company of Canada
Application January 4, 1951, Serial No. 204,307
2 Claims. (Cl. 183—63)



1. A cyclone separator for pneumatic conveying systems comprising a separating chamber having an unobstructed vortex space in which the material-conveying air stream is repeatedly whirled around a horizontal axis to produce a vortex spiralling toward said axis, said chamber being defined and enclosed by a casing presenting substantially flat vertical side walls and a curved circumferential wall, the latter being provided with an upper tangential inlet through which the material-conveying air stream is tangentially directed into the top of the separating chamber in a stream flowing in a direction parallel to said side walls and being also provided with a bottom outlet opening through which the material separated from the air stream is discharged from the separating chamber, the curvature of said circumferential wall being such that the material-conveying stream of air entering the unobstructed vortex space through said inlet is repeatedly whirled around said space in a vertical plane and eventually escapes horizontally from the separating chamber through a central air discharge outlet provided in one of said side walls, an air lock outlet comprising an external casing secured to the circumferential wall of the separating chamber over the bottom outlet of said chamber and a rotor rotatably journalled in said air lock outlet casing, the latter being provided with a bottom discharge opening for the material delivered thereto from the separating chamber, a cylindrical screen extending between and supported by the side walls of the separating chamber in spaced relation to the circumferential wall of said chamber, one end of said screen being closed and the other end being in open communication with the aforesaid central discharge outlet opening provided

in one of the side walls of the separating chamber, a curved baffle encircling the lower half of the screen in spaced relation thereto and in spaced relation to the lower portion of the circumferential wall of said chamber, and a rotating member mounted above and adjacent the upstream side edge of said baffle to prevent undesirable building up of solid material on said edge.

2,643,735
CORRUGATED SCREEN GAS IMPINGEMENT FILTER
Robert F. Logsdon, Louisville, Ky., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware
Application June 26, 1951, Serial No. 233,665
27 Claims. (Cl. 183—69)



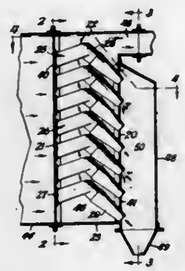
1. A trough filter screen for a high-velocity impingement gas filter comprising: an open mesh screen, having inner and outer faces and opposite front and rear gas flow edges; said screen being formed with a succession of troughs which individually extend longitudinally in the general direction of the gas flow and which collectively present, on the inner face, a series of longitudinal edges; each trough having its open longitudinal side between its longitudinal edges and along said inner face; said longitudinal edges individually extending longitudinally in the general direction of the gas flow and collectively proceeding transversely across said inner face in relative zig-zag fashion so that each trough is narrow at its converging end and wide at its opposite end while the longitudinal edges of the alternate troughs converge in a direction toward one gas flow edge and those of the intermediate troughs converge in a direction toward the other gas flow edge; each trough increasing in width and depth in a direction proceeding from its narrow converging end toward its wide end where it presents a relatively large gas flow area with the bight of each trough correspondingly sloping between the wide and narrow ends.

2,643,736
STRIPPING VANE FOR SEPARATORS
Edwin W. Smith, Dallas, Tex.
Application July 30, 1951, Serial No. 239,299
11 Claims. (Cl. 183—75)

1. An elongate stripper vane section comprising, a straight end portion lying in a vertical plane and extending from one side edge of the section; an inclined portion extending at an obtuse angle in one direction from said straight end portion; an intermediate straight portion of lesser width than the straight end portion extending at an obtuse angle from the inclined portion and lying in a plane parallel to said first mentioned vertical plane; and a second inclined portion of lesser width than said first inclined portion extending at an obtuse angle in the same degree and on the same side of the intermediate straight section as the first inclined portion and having an end remote from said straight end portion provided with a curved channel portion disposed within the obtuse angle formed between said second inclined portion and said intermediate straight portion, said obtuse angles all being equal in degree.

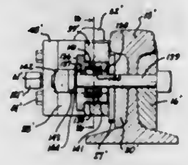


2,643,737
APPARATUS FOR SEPARATING PARTICLES FROM GASES
Frank Bowers, Williamsville, and Roger S. Brookman, East Aurora, N. Y., assignors to Dustex Corporation, Buffalo, N. Y., a corporation of New York
Application July 6, 1950, Serial No. 172,294
7 Claims. (Cl. 183—83)



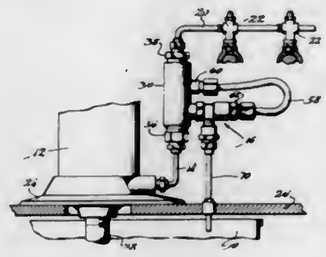
1. In apparatus for separating suspended particles from gases, the combination comprising a plurality of pairs of spaced channel members each having spaced flanges connected by a web, said webs being provided with openings, and a series of centrifugal separators arranged between each of said pairs of channel members, the inlets of said series of centrifugal separators being connected with the openings in the web of one of said channel members and their outlets for the separated particles being connected with the openings in the web of the other of said channel members in the corresponding pair of the same, channel members of adjacent pairs of the same having their said flanges engaging one another so that the webs of said channel members provide a pair of spaced walls, the cleaned gases being exhausted by said centrifugal separators into the space between said spaced walls.

2,643,738
PUMP ACTUATING SYSTEM FOR RAIL AND FLANGE LUBRICATORS
Oscar F. Magnus, Chicago, Ill., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware
Application March 12, 1949, Serial No. 81,096
3 Claims. (Cl. 184—3)



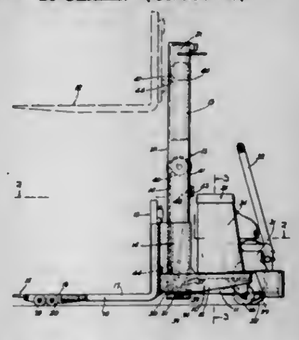
1. In a rail lubricator, operating mechanism actuable by trains running on the track structure, said operating mechanism including a housing secured to the track structure, an operator movable in said housing, said housing having a mounting opening, a bolt passing through the track structure and through said opening, and adjusting devices for adjusting the height of said housing, said adjusting devices comprising a shim located between said bolt and said housing.

2,643,739
RELIEF DEVICE FOR LUBRICATING SYSTEMS
Harry R. Tear, Evanston, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application July 13, 1949, Serial No. 104,544
4 Claims. (Cl. 184—7)



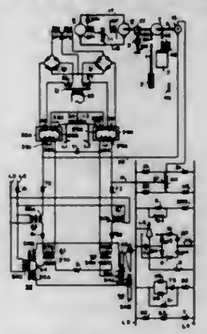
3. In a lubricating system, an intermittently operated pump having means forming an outlet passageway, a check valve in said passageway for preventing return flow of lubricant to the pump, means forming a pressure relief channel for the flow of lubricant from the outlet end of the outlet passageway to a low pressure space, a poppet type valve of relatively small diameter operable to close said channel, means forming a cylinder of diameter substantially greater than that of the poppet valve and having one end in communication with the inlet end of said outlet passageway and having its other end in communication with a low pressure space, a piston freely slidable in the cylinder, and an operative connection between the piston and the poppet valve to hold the latter closed during the time that the pump is operating to maintain a substantial pressure at the inlet end of the outlet passageway.

2,643,740
LIFT TRUCK
George F. Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application November 26, 1949, Serial No. 129,567
15 Claims. (Cl. 187—9)



15. A truck of the class described, comprising a main frame, an elevating platform mounted on said main frame for lifting movement relatively thereto, a traction unit coupled to said main frame whereby said truck is capable of vertical articulation between said main frame and said traction unit, a hydraulic ram for lifting said elevating platform relatively to said main frame, and means whereby the reaction of said ram is accepted by said traction unit.

2,643,741
ELEVATOR SYSTEM HAVING SPEED REGULATION AND POSITION CONTROL
Walter H. Esselman, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 26, 1951, Serial No. 217,635
25 Claims. (Cl. 187—29)



24. In a position responsive system, a structure, a body mounted for movement relative to the structure along a predetermined path, motive means for moving the body in either of opposite directions along the path in accordance with the polarity of an energization supplied thereto, and control means for energizing the motive means to move the body and for stopping the body at spaced stations along said path, said control means comprising a separate control device associated with the structure for each of said sta-

tions, and a control unit including a pickup mounted for movement in accordance with movement of the body, said pickup when the body is at one of the stations being registered with the control device for such station, said control unit including means producing an energization for the motive means which changes in polarity as the pickup passes the control device associated with a station at which the body is to stop, and which increases in magnitude as a continuous function of the displacement of the pickup from the last-named control device for a substantial range of such displacement, the polarity of the last-named energization being selected to energize the motive means to move the body towards the station at which it is to stop.

2,643,742

BRAKE PLATE AND CYLINDER ASSEMBLY

William M. Venner, Ladue, and Percy L. Bowser, Jr., University City, Mo.

Application June 21, 1950, Serial No. 169,362
5 Claims. (Cl. 188—152)



3. In a fluid brake plate and cylinder assembly, the improvement which comprises a cast brake plate and an integral unit consisting of two cylinders of non-porous material, connected by a tube of non-porous material and provided with nipples for connection to fluid conduit, said integral unit being cast within said brake plate.

2,643,743

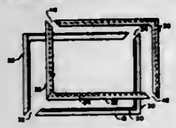
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2,643,744

SASH CONSTRUCTION

Theodore H. Pickering, New Rochelle, N. Y., and Herbert N. Maier, Pottstown, Pa., assignors, by mesne assignments, to National Lead Company, New York, N. Y., a corporation of New Jersey

Application January 15, 1947, Serial No. 722,248
6 Claims. (Cl. 189—76)



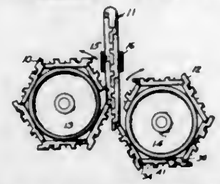
3. A slidable metal sash for a double hung window, said sash comprising an outside section including a face and a web, and an inside section including a face and a web, said sections being assembled with the webs overlapping with heat insulation therebetween, said outside and inside sections each being made of two pieces meeting at opposite points, the two pieces of the inside section meeting at points remote from those at which the two pieces of the outside section meet, whereby the sash is held rigidly in square formation.

2,643,745

SECTIONAL MEMBER

Thaddeus Olszewski, Mamaroneck, N. Y.

Application April 7, 1950, Serial No. 154,471
11 Claims. (Cl. 189—34)



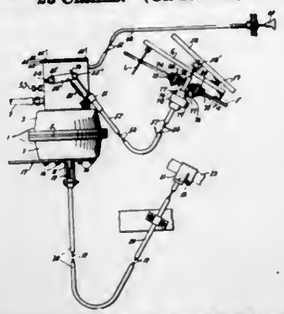
3. In an elongated collapsible unit, a series of interlocking cooperating substantially identical interchangeable members arranged transversely of each other in longitudinal staggered relation, each of the members having a first projection arcuate about a center at the end of one member and having a second projection having one edge thereof arcuate about said center and having the other edge thereof arcuate about another center at one end of the adjacent member and intermediate the ends of said one member there being recesses between the projections of each member shaped to fit and receive frictionally and to be filled removably by projections of two others of said members throughout the areas of the recesses.

2,643,746

VACUUM OPERATED BRAKE ACTUATOR

Walter H. Righter, Glendale, Calif.

Application December 31, 1948, Serial No. 68,713
23 Claims. (Cl. 192—3)



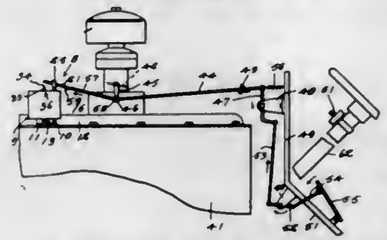
1. A vacuum operated vehicle brake actuating apparatus comprising a vacuum cylinder having a reciprocable piston adapted to be connected to the brake pedal of the vehicle and having a vacuum chamber adapted to be connected with and disconnected from a suction producing element, a vacuum responsive valve yieldingly connected to a foot pedal controlled by the operator and operable thereby to effect said connection and disconnection, and other devices separately responsive to vacuum in said chamber yieldingly connected to said valve element and also non-yieldingly connected to said foot pedal effective through said non-yielding connection to transmit a vacuum initiated, load-feel type of reaction on said foot pedal proportional to the braking effort exerted by said apparatus during a braking operation.

2,643,747

ELECTRIC THROTTLE CONTROL

Carl D. Comstock, Levittown, N. Y.

Application April 30, 1952, Serial No. 285,175
11 Claims. (Cl. 192—3)



1. The combination with an internal combustion engine and throttle control linkage including means for normally urging the linkage to an idling position of the throttle valve, of an electric throttle control comprising a mounting frame fixedly positioned relatively to the throttle linkage, an actuating solenoid secured to the mounting frame and adapted to be electrically connected to a source of current, a normally open switch normally deenergizing the actuating solenoid, a core having one end slidably disposed in said solenoid, a spring urging the core outwardly of the solenoid, a ratch having one end pivotally connected to a part of the throttle linkage, said ratch having a series of ratch teeth formed in another part thereof, a portion of said ratch extending slidably through a part of the core disposed outwardly of the solenoid, and a detent supported by the mounting frame, said core being drawn inwardly of the solenoid when the solenoid is energized for swinging the toothed portion of the ratch toward the detent, said detent being disposed to engage between selected teeth of the ratch when the ratch is swung toward said detent, said ratchet teeth and detent being constructed and arranged to cooperate with said means for normally urging the throttle linkage to an idling position of the throttle valve for frictionally retaining said ratchet teeth in engagement with the detent against the action of said solenoid spring when said switch is opened to deenergize the solenoid whereby momentary closing of said switch and energizing of the solenoid will set the throttle control unit in an operative position for maintaining the throttle valve in a desired open position, said ratch being disengaged from the detent by a movement of the throttle linkage to effect a further opening of the throttle valve.

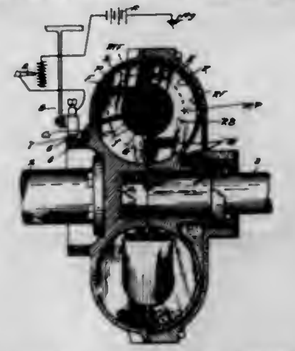
2,643,748

MAGNETIC FLUID COUPLING DEVICE

Paul H. White, Jr., Los Angeles, Calif.

Application December 19, 1949, Serial No. 133,723
12 Claims. (Cl. 192—3.2)

1. A rotary coupling machine having, in combination, an input power element and an output power element, a magnetic fluid medium orbitally circulated by the input element against the output element for transferring power from the input to the output element, by kinetic energy of the effective medium whereby to effect controllable positive drive connection of driving and driven rotary elements of the machine when the fluid body is subjected to action of a magnetic field, and in which machine, momentum of said body is the normal transfer-factor between said elements; one of said elements having a circuit controlled magnet whereby to magnetically excite said medium and thereby create a positive mechanical connection of the said elements.

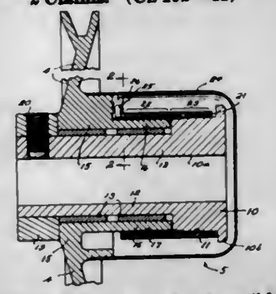


2,643,749

SPRING TYPE CLUTCH

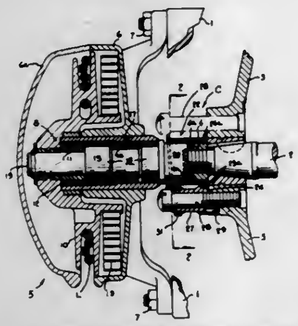
Harry R. Greenlee, Indianapolis, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio

Application December 31, 1948, Serial No. 68,627
2 Claims. (Cl. 192—41)



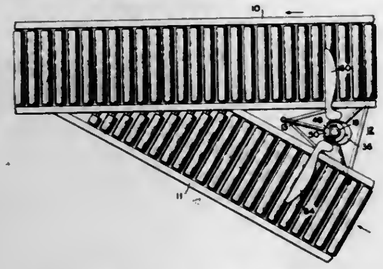
1. In combination with a reversible electric motor and a torque transmitting driving or input clutch member continually connected therewith, a load having a high breakaway torque and a driven or output clutch member continually connected therewith and axially aligned with the driving clutch member, one of said clutch members having a circular clutch drum surface, a helical clutch spring with coils always in self-energizing relation to the drum surface for gripping the same during forward driving of the motor in relation to said load but capable of overrunning thereon during reverse operation of the motor, the other of the clutch members having a drum surface positioned to be gripped by other coils of the spring and having an action-delaying energizing abutment connection with a free end of one of said other coils, said connection providing sufficient wholly free angular lost motion in respect thereto so that the motor after reverse driving can attain substantial forward-direction running speed before energization of the clutch spring takes place.

2,643,750
SPRING CLUTCH TYPE COUPLING
Lloyd Jackson Moulton, Mentor, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application October 24, 1951, Serial No. 252,962
5 Claims. (Cl. 192—48)



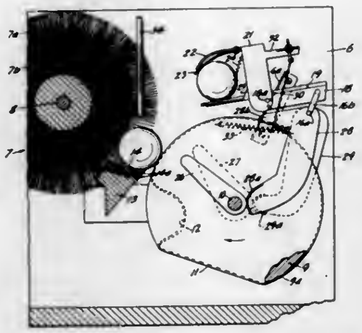
1. A coil clutch device adapted for centrifugal release action, comprising two coaxial rotary members and a friction coil assembly including a plurality of interwound helical friction coil elements of equal diameter each anchored to one of the members to turn always therewith, free end coils of said elements being preloaded on a drum portion of the other member so as to be self energizing thereon to transmit torque and be releasable therefrom by centrifugal force, the terminals of the free end coils being equidistantly spaced circumferentially of the rotational axis and in the same plane transverse to said axis for dynamic balance.

2,643,751
DELIVERY CONTROL MECHANISM FOR CONVEYERS
Harry J. Ferguson, Elkins Park, Pa., assignor to Harry J. Ferguson Co., Jenkintown, Pa., a corporation of Pennsylvania
Application April 11, 1951, Serial No. 220,405
6 Claims. (Cl. 193—35)



1. In control mechanism, a vertical support, a movable member pivotally mounted on said support and adapted to extend outwardly in a predetermined position, a cam member supported by said movable member and having a locking end face and a vertical control face, a second movable member pivotally mounted on said support and adapted to extend outwardly in a predetermined position, a second cam member supported by said second movable member and having a locking end face and a vertical control face, a shiftable control member having spaced followers for engagement with the faces of said cam members, said control member upon movement of one movable member from its predetermined position having one follower positioned by the vertical face of one cam member to dispose the other follower in engagement with the locking end face of the other cam member and thereby hold said other movable member against movement from its predetermined position.

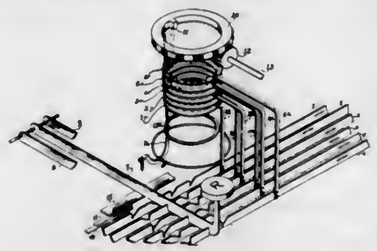
2,643,752
FEEDER DEVICE FOR EGG CLEANING MACHINES
Delbert M. Smith, Morton, Minn.
Application December 9, 1948, Serial No. 64,294
2 Claims. (Cl. 193—40)



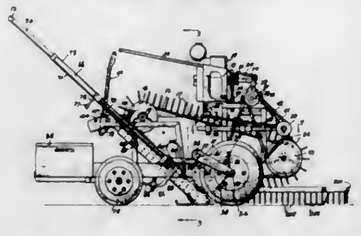
1. A feeder device for successively feeding, one at a time, articles having a continuously rounded outer periphery, said device comprising a supporting structure, a crank shaft journalled for oscillation on said structure, a projectable article-carrying chute disposed in slightly inclined relation to position articles carried thereby at the lower discharge end thereof and having a portion thereof connected to said crank shaft for oscillation therewith, an actuating cam mounted on said structure and adapted to be driven, a cam follower connected to said crank shaft for oscillating the same and riding on said actuating cam, said follower being connected with said crank shaft to periodically shift the inclined projectable chute into projected discharge position, and releasable stop means for normally holding the article at the discharge end of said chute but releasable when said chute is in projected position.

2,643,753
ELECTRIC TYPEWRITER
Adolph J. Wohlgemuth, Westfield, N. J.
Application April 29, 1950, Serial No. 158,988
12 Claims. (Cl. 197—18)

1. A typewheel typewriter comprising an electric motor, a driving shaft, a friction clutch connecting said shaft to said motor, a typewheel driven by the driving shaft and having a stop thereon, a set of rings having their inner edges notched according to a predetermined code, a plurality of identical rods mounted to engage the inner edges of said notched rings, a set of letter keys, levers operated by the letter keys for positioning the notched rings to allow one of said rods to move into a position to engage the stop on said typewheel, and a ring for holding the rods away from the notches while said rings are being positioned.



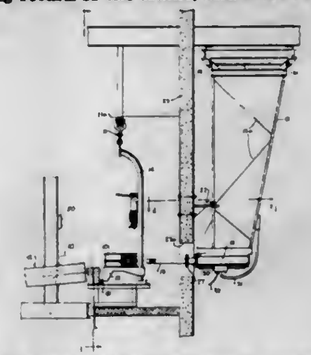
2,643,754
FRUIT GATHERER
Edmond R. Doak, Los Angeles, Calif.
Application November 3, 1947, Serial No. 783,722
2 Claims. (Cl. 198—11)



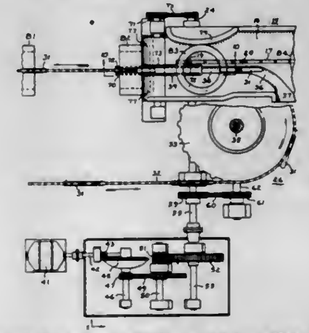
1. In a machine of the character described, a vehicle, an endless belt having fruit engaging means movably mounted on said vehicle, the path of movement of said belt being parallel to the direction of movement of the vehicle, means arranged to drive said belt at a greater linear speed than the linear speed of said vehicle and a pair of forwardly disposed arcuate fruit guiding means comprising a plurality of downwardly extending elongated inherently resilient fingers arranged to guide fruit in the direction of said belt.

2,643,755
TRANSFER DEVICE FOR TRAVELING CONVEYERS
John C. Whitesell, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 28, 1950, Serial No. 203,082
5 Claims. (Cl. 198—24)

5. Apparatus for transferring articles relative to a travelling conveyor having uprights at article positions, comprising in combination, a pendulum frame mounted on overhead supporting means on an axis transverse to the line of travel of the conveyor, a push-out power device including a push-off ram mounted on the frame at the level of the articles on the conveyor, said ram being bifurcated to straddle the upright and being spread at the outer end to engage the corner of an article and assist passage past said upright, means for initiating outward movement of the ram to move an article relative to the conveyor, means for causing withdrawal of the ram after an article has been pushed, means for causing return of the frame, and means for stopping the frame after its return movement in proper position to engage another article.



2,643,756
HANDLING OF ROD BUNDLES OR SIMILAR ANNULI
Richard W. Young and Roger Kinnicutt, Jr., Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application April 21, 1949, Serial No. 88,712
14 Claims. (Cl. 198—25)



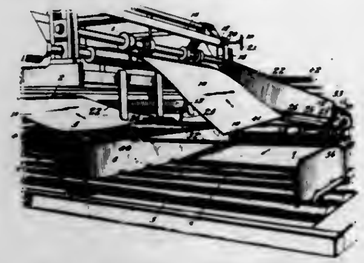
1. Apparatus for handling rod bundles or similar annuli comprising a sprocket wheel rotatable about a horizontal axis, an endless chain extending around the sprocket wheel and having a substantially horizontal upper portion which travels toward the sprocket wheel as the latter rotates, the chain having dogs along its length, the dogs on the upper portion of the chain engaging the bundles to move the same forwardly along with the chain with the axes of the bundles upright until the bundles are above the sprocket wheel, a transfer wheel rotatable about an axis parallel with the axis of the sprocket wheel, the axis of the transfer wheel being spaced forwardly from the axis of the sprocket wheel, and means to rotate the sprocket wheel and the transfer wheel in the same direction, the transfer wheel including an arm arranged to move upwardly into the central opening of a bundle as the bundle arrives above the sprocket wheel, the transfer wheel serving to swing the bundle forwardly and downwardly while the arm prevents the bundle from sliding forwardly relative to the transfer wheel.

2,643,757

SHEET TRANSFER AND GUIDE

Robert J. Kovatch, Baltimore, Md., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application July 16, 1949, Serial No. 105,225
4 Claims. (Cl. 198—27)



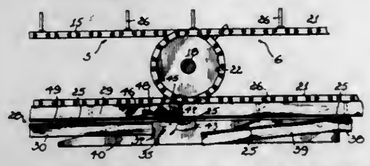
1. Apparatus for delivering lengths of sheets to a feeding table, a conveyor for delivering sheets in sequence to the feeding table to advance the sheets in a path at right angles to that of the conveyor, a stationary means mounted above the feeding table for supporting one side of the sheet during delivery from the conveyor, a sheet balancer for supporting the other side of the sheet comprising a main frame having a hanger bracket attached to the frame of the conveyor mounted above the feeding table, spaced arms extending from the main frame, a journal box formed in each spaced arm, said sheet balancer having an inner horizontally extending rod member and an outer horizontally extending rod member, end rods connecting the ends of the inner and outer rod member, an axle extending from each of the end rod members journaled in the boxes of the spaced arms, said outer horizontally extending rod member engaging and initially supporting the other side of the sheet and adapted to yield under the weight of the side of the sheet and disengage the other side of the sheet from the stationary support and drop the sheet on the feeding table.

2,643,758

APPARATUS FOR WIRE SPRINGS

Svend G. Blumensaadt, Beachwood Village, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio

Application September 2, 1947, Serial No. 771,592
4 Claims. (Cl. 198—33)



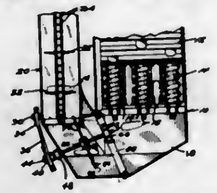
1. In a machine for forming wire springs from sinuously corrugated wire strips having left and right-handed open loops, a pair of laterally spaced, parallel track members lengthwise of the machine, a chain conveyor above said track members in parallel relation with respect thereto including jointly driven chain conveyor sections formed by studded conveyor chains arranged to longitudinally overlap each other, and wire strip inverting means including open breaks in said track members below the overlapping portions of the conveyor chains and elongated, narrow supporting and guiding means below the overlapping portions of said conveyor chains, said supporting and guiding means extended into the plane of the track members and positioned to align with left-handed loops of wire strips advancing on the track members, the conveyor chains of one of the conveyor sections being aligned with right-handed loops of such wire strips and the conveyor chains of the other one of said conveyor sections being aligned with left-handed loops of such wire strips.

2,643,759

CONVEYER FOR CORN HARVESTERS

Melvin L. Swanson, Mission, S. Dak.

Application January 24, 1949, Serial No. 72,307
6 Claims. (Cl. 198—44)



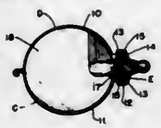
6. In a connecting end feeder for a pair of conveyors, the combination which comprises a forwardly traveling feeder conveyor, a rearwardly extending upwardly inclined receiving conveyor positioned parallel to the feeder conveyor, a horizontally disposed open top hopper U-shape in plan and positioned with one side in communication with the feeder conveyor and the other in communication with the receiving conveyor, the intermediate part of said hopper having diagonally disposed vertically positioned walls at the corners and the outer part of the lower surface sloping downwardly toward the center of the hopper, a bearing positioned on a bar extended across the intermediate part of the hopper, a coacting bearing adjustably mounted on the diagonally disposed wall on the side of the hopper corresponding with the receiving conveyor, a shaft journaled in said bearings, a plurality of radially disposed blades carried by said shaft, said shaft diagonally disposed in the hopper with the said blades positioned to feed products in the hopper from the intermediate part thereof toward the said receiving conveyor, and driving means for rotating the shaft from a rotating part of said receiving conveyor.

2,643,760

ENDLESS CONVEYER

David C. Bortner, York, Pa., assignor to Read Standard Corporation, a corporation of Delaware

Application May 2, 1951, Serial No. 224,134
2 Claims. (Cl. 198—168)



2. In an endless tubular conveyor, the combination of a curviform-shaped tubular turn casing horizontally divided into two complementary

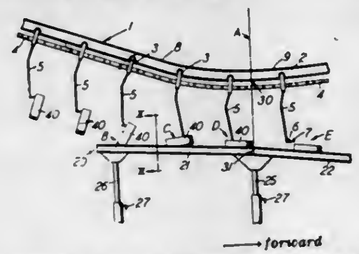
sections, each of said sections having a web, curviform grooves formed on each of said webs along the peripheral contour of said webs, curviform troughs connected to said webs and extending outwardly beyond said grooves and arranged in parallelism thereto, said grooves and troughs disposed in the same horizontal plane, said webs, grooves and troughs in superposed relation providing two parallel tubular passages about said webs, said troughs having their inner edges spaced apart to provide a slot lengthwise of said troughs, a sheave mounted for rotation between said webs with the periphery thereof adjacent said slot, a belt having a plurality of ribs, two of said ribs received in and supported by said grooves, a third rib of said ribs having engagement with the periphery of said sheave, said grooves maintaining said belt in engagement with the walls of said slot to provide a seal between said troughs, and flights in said troughs connected to said belt.

2,643,761

MEANS FOR UNLOADING ARTICLES FROM OVERHEAD CONVEYERS

Frederick A. Wagner, East Lansing, and Albert D. Pierce and John Gedmin, Lansing, Mich., assignors to Campbell, Wyant and Cannon Foundry Co., Muskegon Heights, Mich., a corporation of Michigan

Application March 16, 1950, Serial No. 149,918
1 Claim. (Cl. 198—177)



In means for automatically unloading articles from a conveyor, the combination comprising: a continuously moving, powered, upper conveyor including a track having a downwardly inclined portion; a lower conveyor having a plurality of freely rotatable article supporting rollers; said lower conveyor having a first downwardly inclined portion and a second downwardly inclined portion, said second portion inclined at a steeper angle than said first portion; said upper conveyor and said lower conveyor vertically aligned and extending in the same direction; a plurality of depending, spaced hangers movable along said upper track in the direction of inclination of said upper track; an article engaging hook on the end of each of said hangers, each of said hooks extending from its hanger in the direction of movement of said hangers; said upper conveyor at the lower end of its downwardly inclined portion and said lower conveyor substantially at the juncture of its first portion and its second portion having their point of closest convergence; at their point of closest convergence said upper conveyor and said lower conveyor spaced apart a distance greater than the length of said hangers and less than the length of said hangers plus the width of one of said articles; said upper conveyor and said lower conveyor diverging from each other on each side of said point of closest convergence whereby an article carried by one of said hangers will be deposited upon said lower conveyor as the hanger supporting said article approaches said point of closest convergence and said hanger will be further lowered to disengage said hook from said article as the movement of said article accelerates in the direction of downward inclination of said lower conveyor; said upper conveyor and the first portion of said lower conveyor upstream from said point of closest convergence, relative to the movement of said upper conveyor, being for a substantial distance spaced apart less than the length of one of said hangers plus the length of one of said articles whereby said rollers engage and retard the lower end of said article while the upper end of said article is simultaneously carried downstream and lowered by the movement of said upper conveyor.

2,643,762

COIN CONTAINER

Hildaur L. Neilsen, Metuchen, N. J.

Application September 22, 1950, Serial No. 186,168
2 Claims. (Cl. 206—0.83)



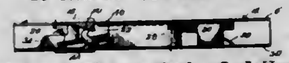
3. A coin container comprising, in combination, an elongated body portion having a pair only of flat sides at least one of which is formed of transparent material, said sides being secured together and extending from one another in planes lying at right angles to one another, a plurality of partitions in said body portion subdividing it into coin receiving compartments, a rail secured to one of said sides and extending outwardly therefrom to preclude coins rolling out of said body portion when said container is resting on said last-mentioned side, and a lid slidably mounted on said body portion.

2,643,763

BLADE DISPENSING MAGAZINE

Vincent R. Bailey, Chestnut Hill, Mass., assignor to The Gillette Company, a corporation of Delaware

Application October 2, 1948, Serial No. 52,541
10 Claims. (Cl. 206—16)



5. A casing having a stack of slotted blades arranged in alternately and oppositely overlapping relation to present front and rear blades, the stack being held at its ends and resiliently stressed at its central overlapping blade portions, a reciprocating slide mounted on the casing and including a blade advancing element projecting downwardly from an under side thereof, and a latch in the casing projecting into the path of the slide and operated thereby to selectively release front blades into the path of movement of the blade advancing element.

2,643,764

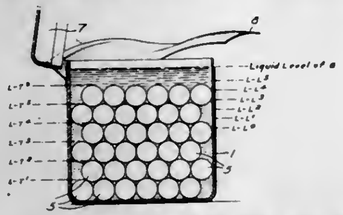
RECTANGULAR PACKAGE OF SURGICAL ARTICLES IN STERILIZING LIQUID

Charles T. Riall, Floral Park, N. Y., assignor to Davis & Geck, Inc., Brooklyn, N. Y., a corporation of New York

Application May 12, 1949, Serial No. 92,975
2 Claims. (Cl. 206—63.3)

1. A rectangular container having a base, a plurality of sealed elongated tubes therein, each

containing a surgical article, said tubes being arranged in horizontal layers and parallel to the container base, a sterilizing liquid covering all



the tubes, the volume of sterilizing liquid above the top layer of tubes being greater than the volume of the top layer of tubes minus one, and a cover sealed on to the container.

2,643,765

SUTURE PACKAGE

Sidney B. Bradshaw, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

Application September 24, 1949, Serial No. 117,530

4 Claims. (Cl. 206—63.3)



3. An easily opened container containing a sterilized surgical suture, comprising a pair of manually twistable disks having inwardly turned annular skirt portions, one of said disks being of a slightly greater diameter than the other of said disks, the skirt portion of the smaller of said disks being received inside of the skirt portion of the larger of said disks, thereby providing a small circular chamber between said disk, the lower edge of the skirt of the smaller of said disks being rounded to provide an arcuate annular contact surface, an annular gasket disposed about the inner peripheral portion of the larger of said disks beneath said contact edge of the skirt of the smaller of said disks so that said contact edge seats on said gasket, the larger of said disks having a depressed circular portion inwardly of said gasket extending toward the smaller of said disks, a sterile surgical suture coiled within said chamber so as to leave the central region of said chamber open, and an antiseptic carrying fluid within said chamber and substantially covering said suture, the central portions of said disks being flexed towards each other under force of atmospheric pressure so that the contact edge of the smaller skirt portion is held in air-tight engagement with said gasket and said disks are contiguous at their centers, said container being manually twistable to change the alignment of said disks relative to each other, whereby said air-tight seal can be broken by merely grasping said container between the hands and applying a twisting force.

2,643,766

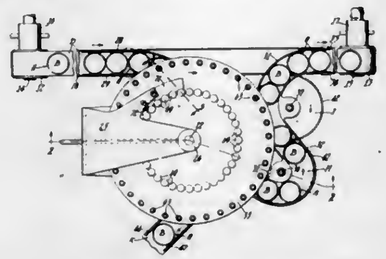
ARTICLE SORTING MACHINE

Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application June 29, 1950, Serial No. 171,013

8 Claims. (Cl. 209—90)

1. In a machine for sorting articles of abnormal dimensions from those of normal dimensions, the combination of a rotatable support member for receiving articles to be sorted, means for rotating said support member at a speed sufficient to remove said articles by centrifugal force, pressure means movably mounted adjacent the path of travel of articles on said support member, said pressure means being so positioned as to engage only articles of abnormal dimensions, means for engaging said pressure means with articles of



abnormal dimensions only for holding said abnormal articles against removal by centrifugal force to sort such articles from normally dimensioned articles, and means for holding said pressure means out of engagement with said normally dimensioned articles on said support member to permit the normal articles to be removed by said centrifugal force.

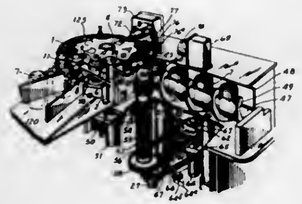
2,643,767

APPARATUS FOR DETECTING CHECKS IN THE RIM OR FINISH PORTIONS OF GLASS CONTAINERS

Theodore C. Baker, Perrysburg, Ohio, assignor to Emhart Manufacturing Company, a corporation of Delaware

Application August 24, 1945, Serial No. 612,484

11 Claims. (Cl. 209—111)



3. In an inspection apparatus for detecting checks in the rim portions of hollow glass articles, such as jars, a carrier for presenting such an article in an upright position at an inspection station, means for rotating the article about its vertical axis while it is being inspected at said station, means for directing a beam of light against one side of the wall of the rim portion of the rotating article at an acute angle to a radial plane thereof, and a normally inactive photoelectric cell unit located adjacent to said inspection station with its line of vision at approximately right angles to the beam of light and intersecting said beam at the rim of the article, whereby said photo-electric cell unit will be activated when said beam strikes the face of a check in said wall of the rotating article and is reflected thereby into said photo-electric cell unit.

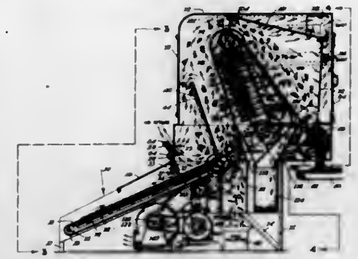
2,643,768

SEPARATING APPARATUS

Oswald Erich Eissmann, Richmond, Va., assignor to American Machine Development Corporation, a corporation of New York

Application February 20, 1947, Serial No. 729,818

3 Claims. (Cl. 209—135)



1. A tobacco classifier unit having a housing for separating torn tobacco leaf into different categories comprising an enclosed passageway having a vertical current separator having an inlet for receiving into said passageway torn tobacco to be separated, settling areas connected with said passageway for separating the torn tobacco into different categories received from said vertical current separator, a plurality of small diameter cyclone filters having diameters of less than 12 inches mounted on said classifier and connected with said passageway subsequent to the settling areas for receiving the air stream after it has had the torn tobacco removed therefrom to remove fine dust from the air stream and fan means connected with said cyclone filters for causing a stream of air to flow through the vertical current separator, the settling areas, said passageway and said cyclone filters to act as a carrier for said torn tobacco and to discharge clean air into the room.

2,643,769

METHOD AND APPARATUS FOR SEPARATING SOLIDS FROM GASES

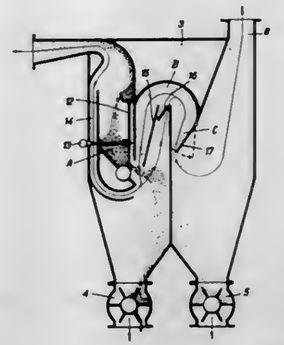
Fritz Tanner, St. Gallen, Switzerland, assignor to Gebruder Buhler, Uzwil, Switzerland

Application December 16, 1949, Serial No. 133,399

In Switzerland January 10, 1949

6 Claims. (Cl. 209—143)

1. In an apparatus for pneumatically transporting loose bulk material, such as grains or seeds, having a tubular conduit for the reception of such material, and a discharge end, and means for passing air through said conduit, and a separator interposed in said conduit, said separator including the combination of a casing having an air inlet opening and an air outlet opening at its upper portion, a concave curved wall across the inlet opening and spaced therefrom in the path of the incoming air and material for separating the material from said air, means for collecting said material, said means having a restricted outlet for said material and forming with the material a seal against an air flow, the material passing out of said restricted outlet forming a veil of material when descending by gravity to the lower part of said casing, an air conduit in said casing separate from said collecting means extending vertically along said collecting means and below the same and having its inlet orifice in the upper part of said casing spaced from said concave curved wall for the air separated from said incoming material, and having its exit orifice below said restricted outlet of said material shaped to direct



its air transversely across the said veil of material for blowing the lighter particles of the veil of material out of said casing, the heavier particles being permitted to descend to the lower part of said casing.

2,643,770

FLOTATION OF MICA WITH SULFONATES

Elmer William Gieseke, Fountain City, Tenn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 26, 1949, Serial No. 129,704

5 Claims. (Cl. 209—166)

1. An improved process of beneficiating mica ore which is substantially free of garnet, which comprises forming an aqueous pulp of the size-reduced ore, conditioning the ore pulp with a reagent combination comprising a strong inorganic mineral acid other than hydrofluoric, an oiling agent, a frother, and an anionic collector selected from the group consisting of water-soluble sulfonated petroleum hydrocarbons of the green acid type, water-insoluble petroleum sulfonates of the mahogany acid type, and mixtures thereof, obtained in the refining of lubricating oil stocks, and the water-soluble salts of such sulfonates; subjecting the conditioned ore to aeration and agitation at a pH of less than 6 and collecting the purified mica as a froth concentrate, substantially free of gangue.

2,643,771

LIQUID TREATMENT DEVICE

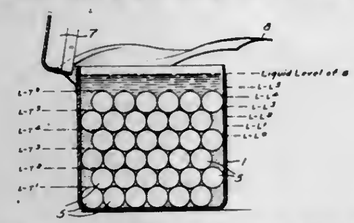
Eric Pick, East Rockaway, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware

Application February 18, 1950, Serial No. 145,069

1 Claim. (Cl. 210—149)

A liquid treatment device comprising a collapsible bag having sides made of a tube of pliable plastic material and a bottom element made of rigid plastic material joined to the bottom end of said tube, a rectangular frame integrally formed on said bottom element and having two opposite open sides extending into said tube, filter means wholly within said bag and mounted on said frame and extending over said open sides,

containing a surgical article, said tubes being arranged in horizontal layers and parallel to the container base, a sterilizing liquid covering all



the tubes, the volume of sterilizing liquid above the top layer of tubes being greater than the volume of the top layer of tubes minus one, and a cover sealed on to the container.

2,643,765

SUTURE PACKAGE

Sidney B. Bradshaw, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

Application September 24, 1949, Serial No. 117,530

4 Claims. (Cl. 206—63.3)



3. An easily opened container containing a sterilized surgical suture, comprising a pair of manually twistable disks having inwardly turned annular skirt portions, one of said disks being of a slightly greater diameter than the other of said disks, the skirt portion of the smaller of said disks being received inside of the skirt portion of the larger of said disks, thereby providing a small circular chamber between said disk, the lower edge of the skirt of the smaller of said disks being rounded to provide an arcuate annular contact surface, an annular gasket disposed about the inner peripheral portion of the larger of said disks beneath said contact edge of the skirt of the smaller of said disks so that said contact edge seats on said gasket, the larger of said disks having a depressed circular portion inwardly of said gasket extending toward the smaller of said disks, a sterile surgical suture coiled within said chamber so as to leave the central region of said chamber open, and an antiseptic carrying fluid within said chamber and substantially covering said suture, the central portions of said disks being flexed towards each other under force of atmospheric pressure so that the contact edge of the smaller skirt portion is held in air-tight engagement with said gasket and said disks are contiguous at their centers, said container being manually twistable to change the alignment of said disks relative to each other, whereby said air-tight seal can be broken by merely grasping said container between the hands and applying a twisting force.

2,643,766

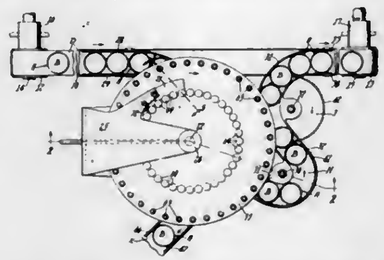
ARTICLE SORTING MACHINE

Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application June 29, 1950, Serial No. 171,013

8 Claims. (Cl. 209—90)

1. In a machine for sorting articles of abnormal dimensions from those of normal dimensions, the combination of a rotatable support member for receiving articles to be sorted, means for rotating said support member at a speed sufficient to remove said articles by centrifugal force, pressure means movably mounted adjacent the path of travel of articles on said support member, said pressure means being so positioned as to engage only articles of abnormal dimensions, means for engaging said pressure means with articles of



abnormal dimensions only for holding said abnormal articles against removal by centrifugal force to sort such articles from normally dimensioned articles, and means for holding said pressure means out of engagement with said normally dimensioned articles on said support member to permit the normal articles to be removed by said centrifugal force.

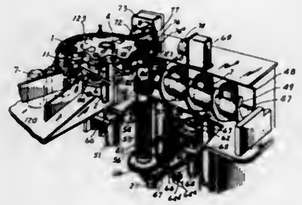
2,643,767

APPARATUS FOR DETECTING CHECKS IN THE RIM OR FINISH PORTIONS OF GLASS CONTAINERS

Theodore C. Baker, Perrysburg, Ohio, assignor to Emhart Manufacturing Company, a corporation of Delaware

Application August 24, 1945, Serial No. 612,484

11 Claims. (Cl. 209—111)



3. In an inspection apparatus for detecting checks in the rim portions of hollow glass articles, such as jars, a carrier for presenting such an article in an upright position at an inspection station, means for rotating the article about its vertical axis while it is being inspected at said station, means for directing a beam of light against one side of the wall of the rim portion of the rotating article at an acute angle to a radial plane thereof, and a normally inactive photoelectric cell unit located adjacent to said inspection station with its line of vision at approximately right angles to the beam of light and intersecting said beam at the rim of the article, whereby said photo-electric cell unit will be activated when said beam strikes the face of a check in said wall of the rotating article and is reflected thereby into said photo-electric cell unit.

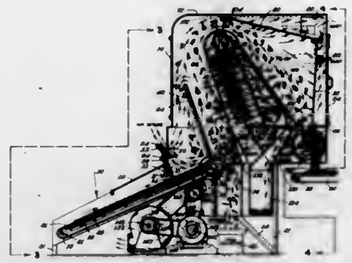
2,643,768

SEPARATING APPARATUS

Oswald Erich Eissmann, Richmond, Va., assignor to American Machine Development Corporation, a corporation of New York

Application February 20, 1947, Serial No. 729,818

3 Claims. (Cl. 209—135)



1. A tobacco classifier unit having a housing for separating torn tobacco leaf into different categories comprising an enclosed passageway having a vertical current separator having an inlet for receiving into said passageway torn tobacco to be separated, settling areas connected with said passageway for separating the torn tobacco into different categories received from said vertical current separator, a plurality of small diameter cyclone filters having diameters of less than 12 inches mounted on said classifier and connected with said passageway subsequent to the settling areas for receiving the air stream after it has had the torn tobacco removed therefrom to remove fine dust from the air stream and fan means connected with said cyclone filters for causing a stream of air to flow through the vertical current separator, the settling areas, said passageway and said cyclone filters to act as a carrier for said torn tobacco and to discharge clean air into the room.

2,643,769

METHOD AND APPARATUS FOR SEPARATING SOLIDS FROM GASES

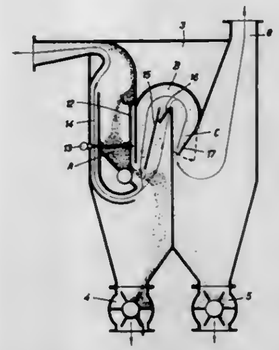
Fritz Tanner, St. Gallen, Switzerland, assignor to Gebruder Buhler, Uzwil, Switzerland

Application December 16, 1949, Serial No. 133,399

In Switzerland January 10, 1949

6 Claims. (Cl. 209—143)

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its air transversely across the said veil of material for blowing the lighter particles of the veil of material out of said casing, the heavier particles being permitted to descend to the lower part of said casing.

2,643,770

FLOTATION OF MICA WITH SULFONATES

Elmer William Gieseke, Fountain City, Tenn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 26, 1949, Serial No. 129,704

5 Claims. (Cl. 209—166)

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2,643,771

LIQUID TREATMENT DEVICE

Eric Pick, East Rockaway, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware

Application February 18, 1950, Serial No. 145,089

1 Claim. (Cl. 210—149)

A liquid treatment device comprising a collapsible bag having sides made of a tube of pliable plastic material and a bottom element made of rigid plastic material joined to the bottom end of said tube, a rectangular frame integrally formed on said bottom element and having two opposite open sides extending into said tube, filter means wholly within said bag and mounted on said frame and extending over said open sides,

an outlet passage in said bottom element communicating with the space within said frame,



valve means in said outlet passage, and means for closing the top end of said tube.

2,643,772
FILTER
Michael James Martin, Armadale, Victoria, Australia
Application January 7, 1948, Serial No. 852
In Australia February 27, 1947
8 Claims. (Cl. 210—183)



1. A filtering member comprising a rigid support having on one side thereof a liquid entry surface formed with a plurality of substantially straight elongated parallel grooves the sides of which converge inwardly from said surface, said support being also formed with filtrate discharge openings which communicate with the inner portions of said grooves, an elongated preformed self-sustaining filler member individual to, and arranged longitudinally within, each of said grooves and extending from end to end thereof, the thickness of each filler member being less than the maximum, and greater than the minimum, width of the respective groove whereby said filler member normally engages the opposite sides of the grooves and said filler member having small surface irregularities whereby minute strainer openings are formed between it and said sides of the groove.

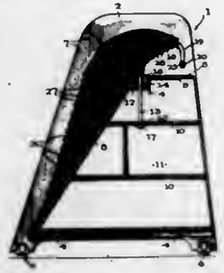
2,643,773
HAT HOLDER AND HANGER SUPPORT
Dean Nicholson, Klondyke, Ariz.
Application September 17, 1951, Serial No. 246,960
1 Claim. (Cl. 211—32)

A hat holder and hanger of the character described comprising a supporting clip and a hat holding loop; said clip comprising a flat body portion, formed along the top and lower edges with hook forming portions turned in opposite directions, said clip being provided at opposite sides and between the oppositely turned hooks, with spaced, horizontally and axially aligned tubular sockets, and the hat holding loop comprising a single piece of wire bent to provide an oval loop in which a hat can be received and held, and to provide leg portions extending from each end of



the loop, and formed at their ends with toe portions, bent to axial alignment and pivotally contained in said sockets; said socket forming portions having shoulders at their ends against which the leg portions of the wire can be rested, for the horizontal support of the loop, and from which they can be disengaged to permit the loop to depend freely for the clip.

2,643,774
RUG SAMPLE DISPLAY RACK
Oliver Ware Patterson, Oswego, Ill., and Kenneth H. Bowen, Auburn, N. Y., assignors to Nye-Wait Company, Inc., Auburn, N. Y., a corporation of New York
Application June 14, 1950, Serial No. 167,946
2 Claims. (Cl. 211—45)



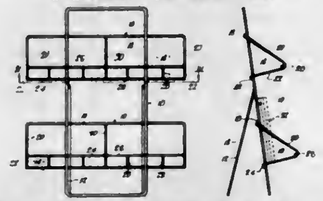
1. A rug sample display rack of the class described, comprising a rack body having a flat front face inclined upwardly and rearwardly, sample supporting means forming an upwardly directed continuation of the front face aforesaid for a substantial distance beyond the upper end thereof and disposed at a greater angle of inclination than said front face for shiftably supporting rug samples thereon in an overlying relationship one-to-the-other, with said samples lying on the front face in echelon, and detachable sample retaining means carried by the sample supporting means aforesaid, said sample supporting means comprising a plurality of sample supporting rods, one end of each of said rods being connected to said rack body, and the opposite end of each of said rods terminating in a vertically disposed free end, and the sample retaining means comprising a rod detachably carried by the vertically disposed free ends of the sample supporting rods aforesaid, and a locking member interengaged with said sample supporting and retaining rods for interlocking said rods together.

2,643,775
NECKTIE RACK
Edward W. Franklin, Hyattsville, Md.
Application October 12, 1951, Serial No. 251,039
2 Claims. (Cl. 211—87)



1. In a necktie rack, a slide bar of non-circular cross section, in combination with a plurality of substantially flat tie suspension members, each of said members comprising a lower body portion having a tie receiving recess open at the front of said member, and an upper portion having a recess open at the back to receive said bar, said bar being provided adjacent each end with a pair of aligned notches extending inwardly from the upper and lower edges thereof, respectively, the edges and surface of said bar between said pairs of notches being smooth and unbroken, and a pair of lugs on each of said suspension members to normally engage the inner face of said bar to maintain said member on said bar, the ends of said lugs being spaced apart a greater distance than the distance between the inner ends of said notches.

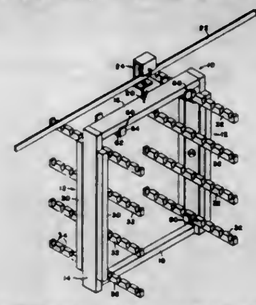
2,643,776
RACK FOR DISPLAYING ARTICLES OF MERCHANDISE
Harry J. Rubenstein, Kansas City, Mo.
Application July 9, 1951, Serial No. 235,809
5 Claims. (Cl. 211—106)



2. A display rack comprising a mounting frame; and a plurality of superimposed, elongated article holders carried by said frame, each holder including a U-shaped wire member having a horizontal bight and a pair of spaced, inclined legs, a laterally extending, integral projection on the free end of each leg respectively, a number of spaced rods joining the projections, article-receiving cross-elements interconnecting the rods, and a number of V-shaped partitions between the legs and the projections thereof and joined to said bight and said rods, providing a number of article-receiving pockets.

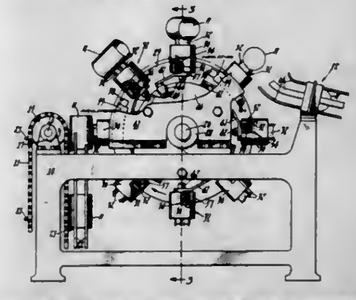
2,643,777
SMOKE TREE
Clifford J. Pickens, Sr., Cheviot, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application February 12, 1951, Serial No. 210,459
3 Claims. (Cl. 211—118)

1. A smokehouse rack comprising a frame including a pair of laterally spaced uprights, a support assembly for each upright including a pair of laterally spaced elongate members and a plurality of vertically spaced vertically aligned cross members secured to and carried by said elongate members, means for releasably securing a support assembly to an upright for locating a



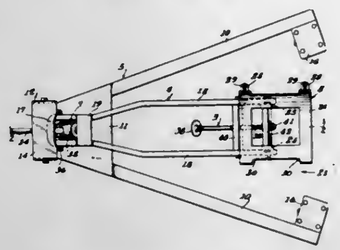
pair of such assemblies in laterally spaced relationship with corresponding cross members in substantial horizontal alignment.

2,643,778
CONVEYER MECHANISM WITH ARTICLE TURNING UNITS
John E. Socke, Pelham Manor, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 30, 1948, Serial No. 68,125
5 Claims. (Cl. 214—1)



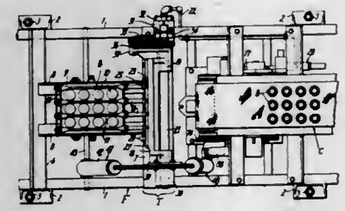
3. In a mechanism for conveying and positioning articles such as tubular can bodies and the like, the combination of feeding means for advancing said articles in a direction longitudinally of their axes, discharge means for receiving said articles with their axes in a substantially horizontal position at right angles from that in which they were advanced by said feeding means, a transfer wheel mounted for rotation in a vertical plane and disposed between said feeding means and said discharge means, means for rotating said transfer wheel adjacent said feeding means in the same direction as said articles are advanced by said feeding means, a gripper unit mounted on said transfer wheel for movement relative thereto, means on said gripper unit for receiving and holding an article, and turning means operable upon said gripper unit as it travels with said transfer wheel for turning said receiving and holding means into alignment with the longitudinal axis of an advanced article for receiving and holding said article, said turning means also acting upon said unit for shifting it relative to said transfer wheel for moving the axis of the article into said right angled position to reposition the article for discharge into said discharge means.

2,643,779
AUTOMOBILE TRANSMISSION HANDLING JACK
Vinton L. Hamlin, Sherman Oaks, Calif., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio
Application January 15, 1949, Serial No. 71,165
1 Claim. (Cl. 214—1)



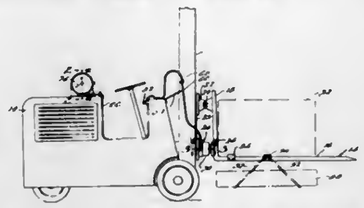
A jack of the character described, comprising a wheel-borne base having a pair of diverging horizontal members and an erect frame at the end where said members meet, an arm on a horizontal pivot carried by said frame, a jack unit for moving the free end of said arm in a vertical plane between a position between said diverging members and a position above the pivot thereof, a horizontal pivot on the free end of said arm, a cradle carried by said pivot, and separate adjusting means for adjusting said cradle on its pivot in the plane of movement of the arm, said latter means comprising a crank having a threaded shank, a pivotal bar on and arranged transversely of the arm and through which said shank passes, a second pivotal bar extending transversely of and carried by the cradle, and abutments on said shank on each side of the latter bar.

2,643,780
APPARATUS FOR HANDLING GLASSWARE
George E. Rowe, Wethersfield, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application May 11, 1946, Serial No. 669,052
4 Claims. (Cl. 214—1)



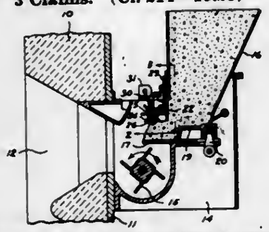
1. Apparatus for handling a row of bottles comprising gripper means including a pair of gripping arms disposed at either side of said row of bottles at a bottle receiving station, said gripping arms being inflatable and deflatable and cooperating when inflated to resiliently and uniformly grip said row of bottles therebetween and when deflated to release said bottles simultaneously, means acting to invert and transfer said arms and bottles gripped therebetween as a unit from the receiving station to a discharge station and to reinvert and return the arms to the receiving station, means acting to effect deflation of the arms and release of the bottles at the discharge station and to effect inflation of the arms and gripping of the bottles therebetween at the receiving station, and means effecting a dwell in the movement of said gripper arms and restraint of the bottles gripped therebetween in cooperative relation at one of said stations.

2,643,781
LOAD WEIGHING SYSTEM FOR LIFT TRUCKS AND THE LIKE
William M. Wise, Detroit, Mich.
Application February 21, 1951, Serial No. 212,124
1 Claim. (Cl. 214—2)



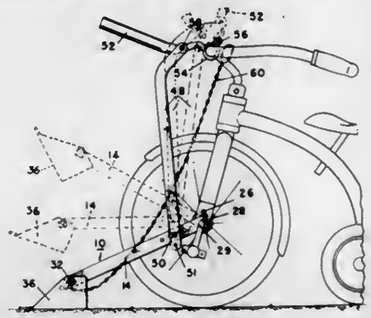
In a load weighing system for lift trucks and the like having a vertical boom, a carriage vertically slidably carried by said boom, and a load supporting fork structure pivoted on and depending from said carriage, hydraulic pressure means on said carriage and spaced below the pivot means for said fork structure and including a horizontally movable portion for displacing the hydraulic medium, a portion of said fork structure bearing substantially horizontally inwardly against said movable portion of the hydraulic pressure means, and a hydraulic circuit, including indicator mechanism, operatively associated with said hydraulic pressure means so as to indicate the load imposed against said movable member by the said fork structure.

2,643,782
SPREADER STOKER
Earle C. Miller, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application March 18, 1948, Serial No. 15,639
3 Claims. (Cl. 214—18.28)



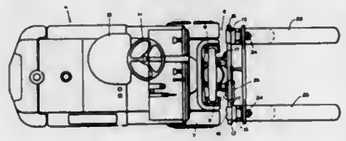
1. A spreader stoker comprising a rotatable fuel distributor, a fuel hopper located above and in front of the distributor, mechanism to feed fuel rearwardly from the bottom of the hopper to the distributor in a stream of predetermined width and depth, a rotatable bladed wheel in position to engage the upper portion of the stream and to be driven thereby, and mechanism connected to the wheel to count the revolutions thereof, said wheel being mounted for movement about an axis parallel to and spaced from its axis of rotation.

2,643,783
ATTACHMENT FOR VELOCIPEDES
Everett J. Tasset, Pratt, Kans.
Application September 14, 1949, Serial No. 115,693
9 Claims. (Cl. 214—131)



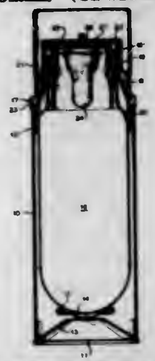
1. A velocipede attachment comprising a principal load-handling lever adapted to be fulcrumed upon the front axle of a vehicle, a load-handling implement carried upon the outer extremity of said lever, an actuating arm adapted to be fulcrumed in overlying position to said lever, and a toggle link connecting said lever and arm in toggle relationship, the relationship of parts constituting said lever as a lever of the third class and said arm as a lever of the second class.

2,643,784
FORK CONSTRUCTION FOR INDUSTRIAL TRUCKS
George L. Turner and Robert Lapsley, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application June 22, 1949, Serial No. 100,684
2 Claims. (Cl. 214—731)



1. An industrial truck having a vertically extending mast and a carriage including a pair of upper and lower plate members extending transversely of the truck, load supporting means therefor comprising fork supporting frames adapted to be secured to said plate members at either end thereof, said frames comprising vertically and horizontally extending legs, vertical stub shafts pivotally mounted on the horizontally extending legs of said fork supporting frames, forks rigidly secured to stub shafts, pinion means carried by said stub shafts, a lever disposed centrally of the fork supporting frames, a hydraulic actuating assembly pivotally secured at its one end to said lower plate member and at its other end to the upper end of said lever, said lever being pivotally secured intermediate its ends to said lower plate member, a shifter bar pivotally secured intermediate its ends to the lower end of said lever, rack means at the opposite ends of said shifter bar, and said rack means being adapted to engage with said pinion means to effect rotation of the same and of said forks.

2,643,785
VACUUM NURSING BOTTLE
Leonard Wood Rust, Sr., Hopewell, Va.
Application October 24, 1950, Serial No. 191,839
1 Claim. (Cl. 215—11)

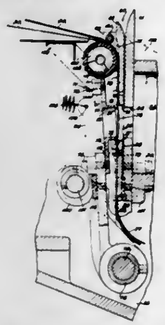


A vacuum nursing bottle comprising an outer cylindrical casing closed at one end and internally threaded at the other, a double wall vacuum receptacle open at one end and adapted to be received in the casing, and an adapter for holding the receptacle in the casing, said adapter comprising first, second and third substantially cylindrical externally threaded connected sections, said first section being adapted to engage the internally threaded end of the casing, a flange separating the second section from the first, the third section being of smaller diameter than the second, the open end of the said receptacle projecting beyond said adapter, a first internally threaded cap having a central aperture and adapted to engage the third section, a flanged nipple being adapted to be selectively assembled to extend through said aperture in said first cap or to extend into said receptacle, its flange being clamped directly between said cap and the mouth of said receptacle, and a second internally threaded cap adapted to engage the second section and cover the first cap and third section, said second cap abutting the first named flange when completely engaged with said second section.

2,643,786
APPARATUS FOR MOUNTING INSERTS IN CARDS
Leonard Baker, Hillsdale, N. J., assignor, by mesne assignments, to Filmsort Inc., a corporation of Delaware
Application November 2, 1949, Serial No. 125,017
11 Claims. (Cl. 216—25)

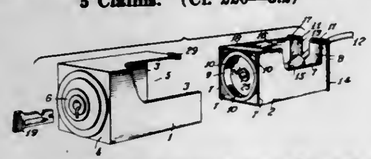
1. In apparatus for cutting from a record supply strip longitudinally spaced record bearing sections and mounting said sections in apertures in cards, a planar die member having a portion undercut at one side thereof and having a die opening extending therethrough and registering with said undercut portion, rotary means disposed above said die opening for feeding said strip downwardly along said undercut portion and across the die opening and for bringing said record bearing sections successively into registry with said die opening, said rotary means extending into said undercut portion and being spaced from the adjacent surface of said die member a distance substantially equal to the thickness of said strip, said rotary means being capable of rotation in opposite directions to impart a back and forth movement to the fed strip rela-

tive to said die opening, means for rotating said rotary means at will to feed said strip and to impart said back and forth movements thereto, means for supporting a card in close proximity to the opposite side of said die member and with the aperture in said card aligned with said die



opening, and pivoted punch means operable independently of said rotary means and cooperating with said die opening for cutting a record bearing section from said strip and moving said section through said die opening into the aperture in said card.

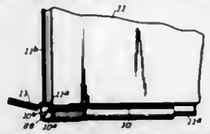
2,643,787
LOCKABLE CONTAINER FOR ELECTRICAL CONNECTORS
Benjamin W. Rockman, Takoma Park, Md.
Application November 24, 1950, Serial No. 197,413
5 Claims. (Cl. 220—3.2)



1. A lockable container for an electrical connector, comprising an outer sleeve having means for closing one of its ends, an inner sleeve and a suitable locking means; the sleeves being so adapted as to permit the inner sleeve to be locked in telescoping relationship within the outer sleeve and said inner sleeve being provided with a wall at one end, said wall being provided with a wire receiving cutout, a spring pressed plunger supporting means at the opposite end of said inner sleeve, a spring pressed plunger in said supporting means, said outer sleeve having a closed wall at one end thereof and said plunger being adapted to engage the wall of said outer sleeve when the sleeves are in telescoped position, and a keyhole slot on the opposite side of said last-named wall, said slot forming part of said lock means.

2,643,788
COLLAPSIBLE CONTAINER
Miles Govan Burrows, Bradford, England
Application March 16, 1951, Serial No. 215,894
In Great Britain November 2, 1949
1 Claim. (Cl. 220—4)

A collapsible container comprising, in combination, a base element having a contiguous gutter disposed around its periphery of generally sector-like cross section but truncated adjacent its apex to provide a slit aperture, said gutter depending from said base element so as to support said base element in a raised position, side walls having outwardly concave dependent hooks at the lower edges, open outwardly convex curved flanges of inverted J section at the upper edges thereof, open outwardly convex curved flanges of substantially 90° curvature at the side edges thereof, said hooks being insertable within the said slit aperture at the truncated apex of the peripheral gutter so that, in the upright position



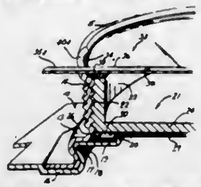
of the side walls, the ends of said hooks abut the inside of said gutter to prevent the side walls from falling past the said upright position in an inward direction, lugs pivoted to each of one pair of opposing side walls to maintain said side walls upright in the assembled position, and a lid having a downwardly projecting peripheral flange of inverted J section adapted to engage snugly with and seat upon the complementary open outwardly convex curved flange of inverted J section extending along the upper edge of each side wall.

2,643,789
CAN CAP WITH RECEPTACLE
Louis R. Theobald, Sr., Hattiesburg, Miss., assignor of fifty per cent (50%) to James W. McCleskey, Sr., Hattiesburg, Miss.
Application December 2, 1949, Serial No. 130,774
5 Claims. (Cl. 220—23)



1. A cap for a lighter fluid can comprising a body having a bottom wall and an axial internally threaded dispenser spout receiving bore therein communicating with said bottom wall, said body having a lighter flint receiving passage therein communicating with said bottom wall, a flint in said passage, and a frangible member attached to said bottom wall and overlying said passage to retain said flint therein.

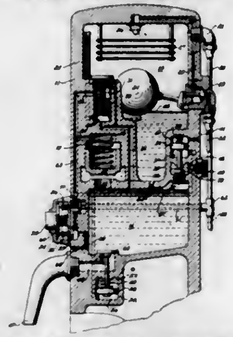
2,643,790
BUNG CONSTRUCTION
Michael J. Quillinan, Bronx, N. Y.
Application May 15, 1950, Serial No. 162,013
9 Claims. (Cl. 220—39)



8. A bung having in combination a container wall mouth and a fitting mounted thereon, said fitting comprising a recess flaring upward and outward having a base projecting from its lower edge and a return projecting inward from its upper edge, a neck projecting upward from said

return, said mouth comprising a complementary flaring open throat within said recess and return having a lip projecting inward from its upper edge clearing the inner face of said neck and a skirt projecting from its lower edge, said base countersunk in said skirt, sealing means seated on said lip including a capseal having a flat bottom and at least one tearing ear projecting from the periphery of said bottom, said neck having a gap permitting said ear to pass therethrough, a pair of lines of weakness terminating at sides of said ear, said gap, and said bottom's periphery, a capseal wall projecting upwardly from the peripheral edges of said bottom commencing at either side of said pair of lines and said gap, said capseal wall embraced by and immovable with respect to said neck's free edge.

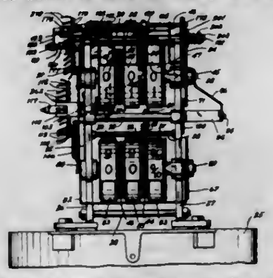
2,643,791
APPARATUS FOR DISPENSING CARBONATED BEVERAGES
Paul Kolisman, New York, N. Y.
Application February 15, 1946, Serial No. 647,806
5 Claims. (Cl. 222—1)



1. A beverage dispenser comprising, in combination, a supply chamber for beverage under CO_2 pressure; a beverage chamber below said supply chamber; an admission valve between said chambers for admitting beverage from said supply chamber into said beverage chamber by gravity; a dispensing spout; a discharge valve between said beverage chamber and said spout; a vent valve for relieving pressure from said beverage chamber to the atmosphere, a supply duct for CO_2 under pressure; a pressure supply valve between said duct and said beverage chamber; a restricted passage bypassing said supply valve to admit a restricted flow of CO_2 into said chamber while said pressure supply valve is closed; and means for operating said admission, discharge, vent and supply valves in timed relationship.

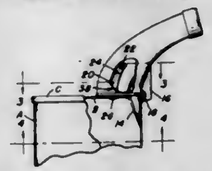
2,643,792
LIQUID DISPENSING DEVICE
Edward A. Daley, Belleville, Ill., Henry J. Mueller, St. Louis, Mo., and Benjamin F. Bracy, Belleville, Ill.
Application October 21, 1946, Serial No. 704,766
16 Claims. (Cl. 222—14)

1. In a control for liquid dispensers having a power means operating the same, the combination of a pair of members moved in accordance with movement of the power means but at different rates relative thereto, each member having associated therewith a plurality of connection operating means disposed successively in the path of the movable members, selector switch means separately movable and having a plurality of connections with the several connection operating means of the movable members, whereby upon selecting by the selector means particular connection operating means of both movable members may be made effective, means adapted for connection with the power means to



start the same and to continue its operation, the movable members being adapted to stop the same when the particular connection operating means selected as aforesaid by the selector means is engaged by the movable member, and switch means to control which movable member shall be operable to effect the stopping.

2,643,793
CAN SPOUT WITH PUNCH AND HOLDDOWN LATCH
Joe H. McIlroy and William N. Lampe, Amarillo, Tex.
Application April 15, 1952, Serial No. 282,294
4 Claims. (Cl. 222—90)

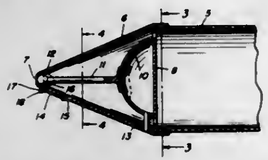


1. A readily attachable and detachable can attachment comprising a tubular open ended pouring spout, one open end of the latter having an endless circular pliant gasket encircling and attached thereto and designed to bear against an end of the can to effect a seal between the latter and said spout, the surface of said gasket contactable with said can-end having an endless groove providing a vacuum channel, said spout having a can penetrating and opening punch projecting beyond said one end and adapted to be forcibly pressed through the cooperating end of the can, a bead attaching and spout fulcruming hook fixedly carried by said spout and situated in close operative relation to said punch, and manually engageable and releasable holddown latches also carried by said one end of the spout and engageable with marginal edge portions of the can opening formed by said punch.

2,643,794
SELF-SEALING COLLAPSIBLE TUBE
Roscoe Perkins, Fort Smith, Ark.
Application June 17, 1948, Serial No. 33,495
3 Claims. (Cl. 222—92)

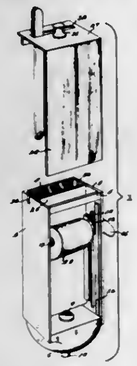
1. A closure for collapsible tubes comprising a rigid neck on a tube having a discharge opening,

a compressible member supported in an internal centrally spaced apart relation with respect to the neck, a vent tube connected to the compressible member and leading outwardly through the



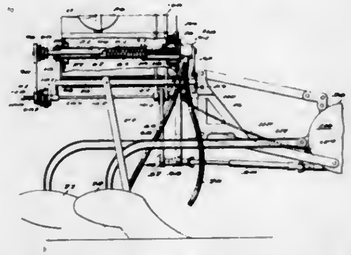
neck to the atmosphere, and a closure member for the opening engaged with the compressible member and movable into an open position by internal pressure in the tube subjected to the compressible member to collapse the latter.

2,643,795
DISPENSER FOR COLLAPSIBLE TUBES
Roy H. Teal, La Grange, Ga.
Application May 24, 1948, Serial No. 28,819
1 Claim. (Cl. 222—93)



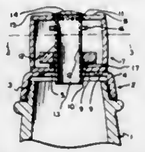
In an apparatus for dispensing the contents of a collapsible tube, a base provided with a discharge outlet, a casing adapted for detachable association with said base, said casing comprising a rear wall and a pair of interconnected parallel side walls, each of said side walls having a vertically extending recess, a removable vertical transverse partition having its side edges adapted to seat in the vertically extending recesses in said parallel side walls and arranged in spaced relation to said rear wall, said parallel side walls being connected at their upper forward edges by a relatively narrow cross-member, means associated with said base for holding the collapsible tube in inverted position, each of said parallel side walls being provided with a vertically extending rack, one of said side walls having a vertical slot disposed rearwardly of its vertically extending rack, a horizontal shaft disposed within said casing and extending through said vertical slot, vertical guides on said side walls rearwardly of said racks engageable with said shaft, a pair of gears on said shaft adapted for rotatable engagement with said racks, means disposed exteriorly of said casing for enabling manual rotation of said shaft, a friction member mounted on said shaft for compressing a collapsible tube, a one-piece L-shaped cover adapted to enclose the front and top of said casing, said side walls being provided with oppositely disposed vertical slots in their upper edges, a depending transverse member on said L-shaped cover receivable in said slots, and said L-shaped cover having a slot in the horizontal portion thereof which is positioned over the compartment formed between the rear wall and the vertical partition, said last-named slot being adapted to receive at least one toothbrush, and means for retaining said cover on said casing.

2,643,796
APPARATUS FOR DISTRIBUTING FERTILIZER OR THE LIKE
August W. Gustafson, Corpus Christi, Tex.
Application May 29, 1950, Serial No. 165,092
7 Claims. (Cl. 222—167)



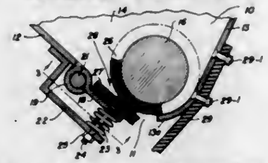
1. In apparatus for discharging pulverulent material, a rotatable drum, a stationary feed barrel within and extending along the axis of the drum, a flexible sleeve within said barrel, said barrel and sleeve having an aperture therein through which the pulverulent material may pass to the interior of the sleeve, means for distorting said sleeve inwardly, and a flexible feed member within the sleeve for moving the pulverulent material axially within the sleeve.

2,643,797
MOISTUREPROOF SALT CELLAR
Joaquim P. Soares and Stanley J. London, Norfolk, Mass.
Application September 19, 1950, Serial No. 185,546
3 Claims. (Cl. 222—196.5)



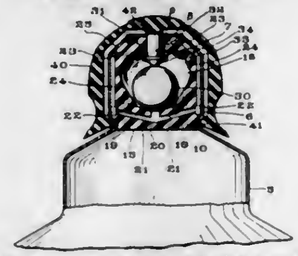
1. A salt cellar and the like comprising a salt container having a cap member with an opening therein, a sleeve element fitted in said opening with a flange on the end of the sleeve member adapted to rest and fit closely over the periphery of the hole on the top of the cover, means mounting the sleeve element for longitudinal motion coaxial with the axis of the hole, a ring of heavy metal slidable on said sleeve, means limiting the motion of the ring on the sleeve, means limiting the motion of said sleeve, said sleeve being provided with a series of holes around the top just beneath said flange.

2,643,798
DISPENSING AND DISTRIBUTING DEVICE FOR FINELY DIVIDED MATERIALS
William H. Neff, Salt Lake City, Utah
Application March 13, 1950, Serial No. 149,237
10 Claims. (Cl. 222—313)



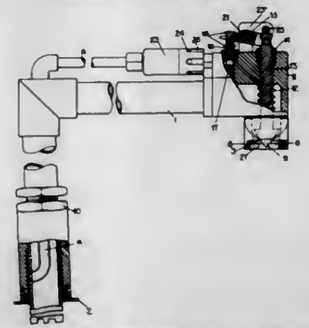
1. In a dispensing and distributing device for finely divided materials, said device having a rotatably mounted roller, substantially stationary reactions means disposed in close adjacency to the circumferential surface of said roller and being substantially coextensive in length therewith, means for rotating said roller toward said reaction means, and feed means for supplying finely divided materials between said roller and said reaction means in the direction of rotation of the roller, pile material covering the circumferential surface of the roller in fixed relationship therewith, and pile material covering opposing surface areas of the reaction means in fixed relationship therewith, the pile material of the roller engaging that of the reaction means and wiping across the latter as the roller rotates.

2,643,799
VALVE MECHANISM FOR PRESSURE DISPENSER
James H. Countryman, West Middletown, Ohio
Application September 1, 1950, Serial No. 182,747
2 Claims. (Cl. 222—394)



1. In a pressure dispensing device, a metal container comprising a body portion and a reduced top portion provided with an opening through its top wall, a flexible cylindrical valve container located within the neck portion of the container and provided with a cavity, a discharge port opening into the lower end of the cavity, a ball weight freely mounted in the cavity and movable by gravity to control the discharge port opening, an opening through the upper end of the valve container in register with the opening through the top portion, a plunger movable in the opening in the casing into and out of engagement with the ball in the cavity, a spring locked closure cap adapted to fit over the reduced portion of the container, a projection in the cap engaging the plunger to lock the ball in the cavity in a seated position, fluid discharge passages in the periphery of the valve container opening into the discharge port, and an outlet in the upper end of the container opening into the peripheral discharge passage.

2,643,800
APPARATUS FOR USE IN THE DELIVERY OF LIQUIDS FROM CONTAINERS
Bryan James Todd, Robert Edmund Turner, and Robert E. Broberg, Wellington, New Zealand, assignors to Associated Motorists Petrol Company Limited, Wellington, New Zealand
Application March 20, 1947, Serial No. 735,990
In New Zealand March 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 11, 1966
7 Claims. (Cl. 222—400.7)



1. Apparatus for use in delivering liquid from containers, wherein compressed air is injected into the latter for the purpose of ejecting liquid therefrom, comprising a liquid discharge pipe and a dispensing head having a valve controlled liquid outlet, said pipe being insertable within a container so as to extend therefrom; an air transfer pipe having a non-return valve, and an air injector therein, said injector having therein holes for admitting a proportion of air at atmospheric pressure to the compressed air stream, and atmospheric air leads to said holes from different surfaces of the injector, to admit atmospheric air during the induction of same and to provide for the by-passing of surplus high pressure compressed air when the pressure in the container has reached the predetermined safe limit before the supply of high pressure compressed air may have been cut off, an air admission control valve in said head in communication with said air transfer pipe for controlling the passage of compressed air from the head to the container; a rocking lever on the head for operating both the fuel outlet control valve and the air admission control valve; a fixed hand grip, and a trigger for actuating the rocking lever both on said head; lugs on the latter, and a pin for inserting in said lugs, for preventing operation of said valves, and a guide on the head adjacent the liquid outlet for receptacles placed below the latter.

2,643,801
WATCH OILER
Herman R. Kollmeyer, Arlington, Va.
Application December 22, 1948, Serial No. 66,691
5 Claims. (Cl. 222—420)

1. A watch oiler comprising a tubular main casing, a capillary tube in communication therewith and extending longitudinally from one end thereof, a closure cap carried by the other end of said casing and extending longitudinally therefrom, said closure cap having an axial aperture and an air vent passage open to the interior of said casing adjacent to said aperture, a rod extending through said aperture and into said cas-

ing, a collar on said rod within said cap normally engaging said cap and closing said vent passage, a spring operating on said collar to yieldably maintain the rod at the outer end of its stroke against the inner portion of the cap so as to seal said vent passage in the cap, and an oiler wire secured
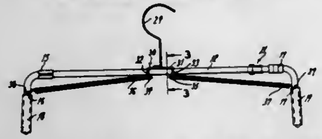


to and extending from the inner end of the rod through said casing and normally disposed with its free end in said capillary tube and adapted to be projected through and beyond the end of the capillary tube by depressing the rod against the action of said spring.

2,643,802

ADJUSTABLE CLOTHES HANGER

Daniel A. Eberhardt, St. Louis, Mo.

Application January 25, 1950, Serial No. 140,387
9 Claims. (Cl. 223—95)



1. In an adjustable clothes hanger having in combination a pair of parallel rods movable longitudinally with respect to one another, a pair of keepers holding the rods in abutting relationship, a saddle carried slidably on the said rods between the keepers, a hook secured to the saddle and operable to engage a clothes rack and the like, a pair of arms formed on the outer opposing ends of the rods to engage an inner side of a skirt waist band, a releasable lock on the rods to prevent movement of the arms toward the saddle and a pair of tension springs mounted between the saddle and the arms, respectively, to center the saddle on the rods and return the arms to a collapsed position when the lock is released.

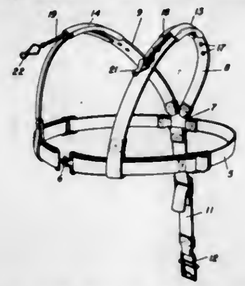
2,643,803

SUPPORTING STRAP FOR CAMERAS OR BINOCULARS

Jack R. Bates, San Anselmo, Calif.

Application March 15, 1951, Serial No. 215,768
3 Claims. (Cl. 224—5)

1. A device of the character described to be worn by a person and comprising a belt adapted to encircle a person at a point adjacent the armpits, a pair of shoulder straps slidably and adjustably secured to said belt, a retainer slidably and adjustably mounted on each of said shoulder straps, a resilient member mounted in each of said retainers and substantially covered thereby and having one end thereof secured to its re-



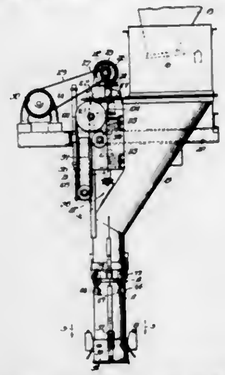
tainer, the free end of each of said resilient members having a clasp for attaching an article suspended between the free ends of said resilient members.

2,643,804

BAG FILLING TUBE AND ASSOCIATED BAG TOP GRIPPING APPARATUS

Norman Amos Scranton and Mathias Andrew White, Decatur, Ill., assignors to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware

Application November 2, 1948, Serial No. 58,006
13 Claims. (Cl. 226—23)



1. In a bag filling apparatus wherein an empty bag is positioned on a filling spout and then withdrawn therefrom as the filling material is forced into the bag, mechanism for gripping the bag margins adjacent the mouth thereof and controlling the movement of the bag, said mechanism comprising a pair of spout encircling frame members, said frame members comprising upper and lower members which are initially separated, means mounting said frame members for axial movement on said spout, movable bag grippers mounted on said frame members, and means for moving said bag grippers and said frame members in timed relation, said means for moving said frame members comprising a movable counterweight, means connecting the counterweight with said upper and lower frame members whereby predetermined movement of the counterweight moves said upper and lower frame members relative to each other, and control

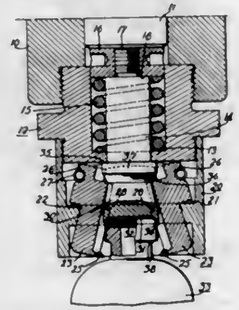
means for said counterweight, whereby to position the mouth of an empty bag over the spout, thereafter to retard the movement of the bag as it is forced from the spout by the filling operation and finally to automatically release the filled bag.

2,643,805

CAPPING HEAD

Josef Müller-Strobel, Zurich, Switzerland, assignor to The West Company, Inc., Phoenixville, Pa., a corporation of Pennsylvania

Application February 14, 1952, Serial No. 271,517
In Switzerland March 14, 1950
4 Claims. (Cl. 226—86)



1. In a device for the capping of a container with a closure cap which fits over the top of the container and has a portion to be crimped inwardly to secure it to the container, a plurality of crimping die segments pivotally supported intermediate their ends, each of said segments having a crimping flange at its lower extremity, spring means engaging said die segments above their pivot points to spread the lower extremities of said segments outwardly for insertion within said segments of the top of the container and an associated cap, a vertically movable plunger, a pressure face at the lower end of said plunger to engage the top of the container cap upon downward movement of the plunger, an upwardly-divergent camming surface on said plunger engageable with the upper portions of said die segments and located on the plunger in relation to said pressure face to move the lower extremities of said die segments inwardly beneath the container cap substantially coincidently with the engagement of said pressure face with the top of the container cap, and a surface on said plunger above said camming surface engageable with the upper portions of said die segments to retain the segments in their closed operative position for engagement of their crimping flanges with the container cap during continued downward movement of said plunger, whereby the crimping operation takes place while the cap is pressed tightly on the container by said plunger.

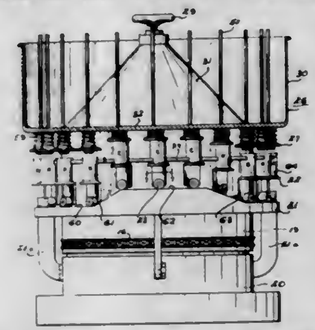
2,643,806

AUTOMATIC CONTAINER-FILLING MACHINE

Arthur C. Milne, Collingswood, N. J., assignor to Central Machine Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application May 20, 1948, Serial No. 28,098
10 Claims. (Cl. 226—98)

1. In an automatic container-filling machine; a rotatable reservoir having a generally-cylindrical outer wall and a generally frusto-conical inner wall and an annular bottom-wall of relatively small radial dimension providing an annular liquid-compartment tapering downwardly in cross-section, said bottom-wall having a plurality of circumferentially-distributed openings formed therein, and a plurality of individual filling-valves mounted in the bottom openings of said reservoir and communicating with the lowermost portion of said liquid-compartment, each of said filling-valves being insertable from within said reservoir and having an uppermost out-



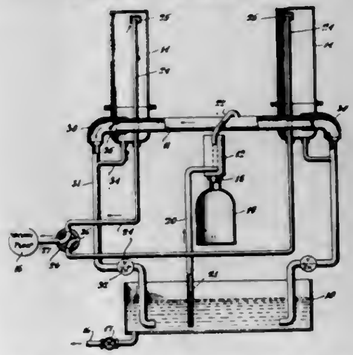
wardly-protruding annular flange constructed and arranged to rest on a correspondingly-shaped inwardly-protruding annular shoulder formed at its opening with a compressible sealing-gasket disposed therebetween, and a plurality of lugs screw-threadedly carried by said filling-valves and adapted to bear against the underside of said reservoir whereby tightening of said lugs will lock said flange against said shoulder in fluid-tight relationship therewith.

2,643,807

CONTAINER FILLING MACHINE

Joseph Gialanella, Newark, N. J., assignor of one-half to Gennaro De Rogatis, Orange, N. J.

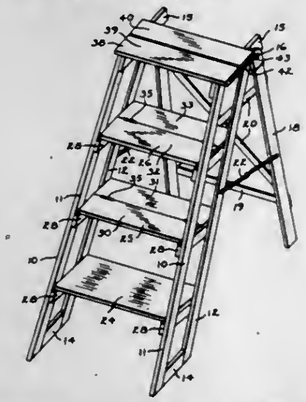
Application February 27, 1952, Serial No. 273,653
15 Claims. (Cl. 226—116)



1. In a container filling machine of the class described, the combination of a liquid supply tank; a substantially horizontal header above said tank; a filling head having an inlet, an outlet and means for communicating with the opening of a container to be filled; conduit means for supplying liquid from said tank to said inlet; a flow communicating connection between said outlet and said header; pipe means connected

to said header including a downwardly extending section in communication with said tank; a chamber above said supply tank having its upper end above said header; vacuum producing means; means for establishing communication between said vacuum producing means and the upper end of said chamber; and a tube connecting the lower end of said chamber and said pipe means section at a point below the bottom of said chamber.

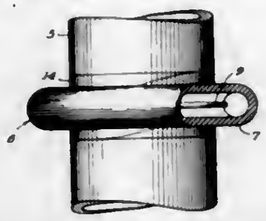
2,643,808
STEPLADDER
Henry McAlister, Worcester, Mass.
Application April 29, 1950, Serial No. 158,945
1 Claim. (Cl. 228—17)



A stepladder comprising a pair of laterally spaced front legs, prop means to support the legs at an upward and rearward inclination, the legs being slightly inclined toward one another, a series of steps located between the legs, the steps being relatively wide so that each step overlies a considerable portion of the step therebeneath, each step except the lowermost being divided longitudinally into a rear portion and a front portion, hinge means pivotally connecting each of said front portions to the corresponding rear portion so that the front portion can be swung upwardly and rearwardly to rest on the top of the corresponding rear portion to make substantially the full width of the step therebeneath available for use, the end surfaces of the hinged front portions of the steps converging in a forward direction at a sufficient angle to avoid interference with the legs as the front portions are swung upwardly and rearwardly, a top platform at the top of the legs overlying a considerable portion of the top step therebeneath, the said platform being divided longitudinally into a rear portion and a front portion, and means pivotally connecting the front portion of the platform to the rear portion thereof and so constructed that the front portion can be swung upwardly and rearwardly into a position behind the rear portion and thereby make substantially the full width of the top step available for use while retaining the full width of the platform.

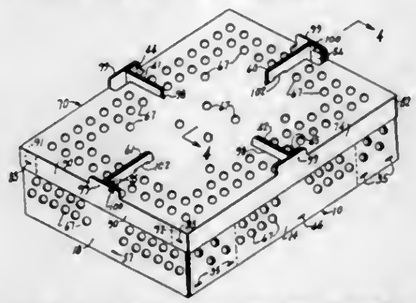
2,643,809
STEP DEVICE FOR PLAYGROUND EQUIPMENT
Robert J. Hoy, North Hollywood, Calif.
Application October 31, 1951, Serial No. 254,154
2 Claims. (Cl. 228—34)

1. A step device for a post element, said device comprising a length of tubular resilient and flexible material substantially encircling the post element, a length of bendable metal having a cross-section substantially smaller than the passage in the tube and disposed within the tube passage and having ends extending beyond the ends of said tube, and means to connect the ends of the length of metal to draw the same tightly



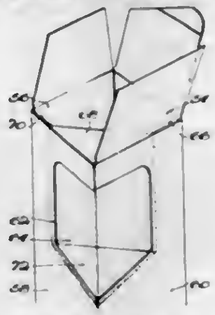
against the wall portion of the tube that is engaged with the post element to, thereby, draw said wall portion tightly around the post element, the remaining wall portion of said tube extending laterally outward from the length of bendable metal to constitute a downwardly and inwardly flexible and resilient annulus.

2,643,810
CHICK BOX
Hugh P. Fleming, Charlotte, N. C., assignor to Fleming Specialty Company, Charlotte, N. C., a partnership
Application September 13, 1949, Serial No. 115,337
1 Claim. (Cl. 229—15)



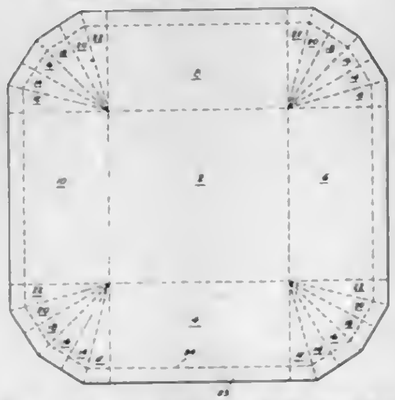
A chick box and a lid portion therefor, the box being substantially rectangular and having side walls and end walls and having a longitudinally extending partition and a transversely disposed partition, the central portions of the partitions being of substantially the same height as the side and end walls of the box and the end portions of the partitions being substantially higher than the side walls and end walls of the box, the partitions at their ends each having a right angular portion of the same height as the ends of the partitions and secured to the inside surfaces of the end walls and the side walls of the box, a lid member having downturned side wall portions extending from fold lines near each edge of the lid member, said lid member having slots cut therein for receiving the end portions of the partitions and the lid also having a plurality of the tabs cut therefrom and each tab being provided with a free end and said tabs being foldable upwardly along the fold lines of the side and end portions of the lid, and lying against the right angular portions of the ends of the partitions and said tabs having their upper edges terminating within the same plane, at least two of the end portions of the partitions and the upturned tabs on the lid portion being secured together.

2,643,811
DISPLAY CARTON
Hubert Velman Bolding, Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky., a corporation of Kentucky
Application April 14, 1949, Serial No. 87,430
3 Claims. (Cl. 229—27)



1. A carton having a main body portion comprising side walls and end closure flaps, two adjacent side walls being apertured to provide a continuous opening extending across a corner of the carton, a utility panel of such width as to extend diagonally across the open corner and engage the side walls adjacent said opening, and flaps on opposite sides of said panel and integral therewith for engagement with said side walls adjacent said opening, one of said flaps being integral with both the utility panel and a side wall of the carton.

2,643,812
BOX CONSTRUCTION
Ferdinand Lange, Minden in Westphalia, Germany, assignor to Werner Bahlsen, Hannover, Germany
Application July 24, 1950, Serial No. 175,597
In Germany September 5, 1949
4 Claims. (Cl. 229—31)



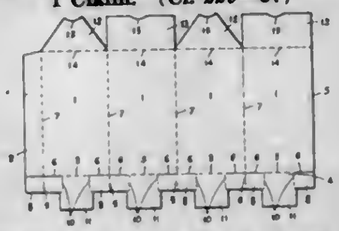
1. In a container having bottom side and end wall panels, each corner between a side wall panel and the adjacent end wall panel comprising a plurality of an odd number of pleats integral with the material of the side and end wall panels, at least one of said pleats lying folded against a side wall panel and at least one other pleat lying folded against an end wall panel, and another of said odd number of pleats lying inside the fold of one of the pleats folded against one of said wall panels.

2,643,813
CARTON
Oscar L. Vines, New York, N. Y., assignor to Alford Cartons, Ridgefield Park, N. J., a corporation of New Jersey
Application August 24, 1951, Serial No. 243,435
5 Claims. (Cl. 229—31)



1. A carton blank of substantially rectangular shape provided with two parallel fold lines extending longitudinally the full length of the blank, each of said longitudinal fold lines being disposed substantially the same distance from and parallel to the longitudinal sides of the blank, the blank being further provided with a first pair of parallel fold lines each of which extends transversely across a separate end portion of the blank at substantially the same spaced distance inwardly therefrom and with a second pair of parallel fold lines each of which extends transversely across a separate end portion of the blank at substantially the same distance inwardly from the proximate fold line of the first pair as the distance between said proximate fold line and the proximate end of the blank, the blank further having four separate fold lines extending diagonally outwardly to the two sides of the blank at an angle of about forty-five degrees thereto from each of the four intersections of the two longitudinal fold lines and the two transverse fold lines of said second pair thereof, the portion of each end of the blank defined by the two longitudinal fold lines, the end of the blank and the transverse fold line proximate thereto being provided with an outwardly arched cut line having its ends positioned adjacent the intersections of said longitudinal fold lines with said proximate transverse fold line, the ends of the blank being provided with an outwardly projecting tongue portion, and the body of the blank being provided with a substantially centrally disposed transverse cut line adjacent the inboard side of each of the transverse fold lines of said second pair thereof.

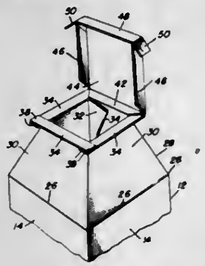
2,643,814
CARTON FOR ROUND-ENDED ARTICLES
Harry Bradley, Leeds, England, assignor to John Waddington Limited, Leeds, England
Application October 17, 1949, Serial No. 121,745
In Great Britain November 6, 1948
1 Claim. (Cl. 229—37)



A carton for round-ended articles, such as electric light bulbs, having a four-sided body open at one end, a peripheral flap having hinged connections with only the central part of one end of each of at least two of the four sides and

folded into the body of the carton at said open end, the flap being separated from the sides between the hinged connections adjacent to at least two of the corners of said body end by slits in line with the hinged connections of the flap to the said sides, the separated portions of the flap being folded inwards about scored lines parallel to the longitudinal axis of the body of the carton to provide supports for the rounded end of the article, the peripheral flap also being provided with extensions in substantial longitudinal alignment with said hinged connections and extending beyond the separated portions of the flap into the body of the carton parallel to its sides to engage the periphery of the rounded end of the article and thereby insure that the flap remains in folded position.

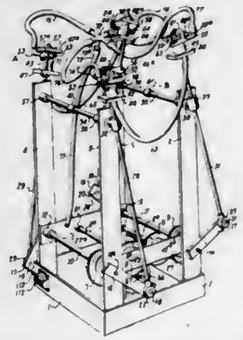
2,643,815
SANITARY MILK CARTON
Oscar Komeo, Linden, Mich.
Application January 26, 1951, Serial No. 207,873
2 Claims. (Cl. 229—44)



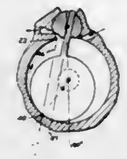
1. A cardboard paraffin coated milk carton comprising a vertically elongated rectangular carton having a flat closed bottom, the upper end portion of said carton having a truncated pyramidal pouring neck, the truncated end of said neck having lateral outstanding flanges joined and providing a lip forming rim, and a flat lid having one marginal edge creased and integrated with a corresponding marginal edge of said neck and hingedly joining the lid with said neck, the remaining marginal edges of said lid having inbent flanges hooked over corresponding portions of said rim and separably interlocked therewith, the flange on the forward free edge of said lid having bendable tabs at opposite ends, said tabs being folded inwardly toward each other and separably sealed to the top surface of said lid, whereby to provide finger-grips which assist in unfastening the lid as a step preparatory to opening the lid and uncovering the pouring mouth of the neck.

2,643,816
PUMP
Louis W. Lewis, Dallas, Tex.
Application April 26, 1948, Serial No. 23,205
9 Claims. (Cl. 230—74)

1. In a pump of the class described, a pair of gravity biased liquid operated valves, each of said valves having an inlet and an outlet and a common conduit connecting the inlet and outlet; a cylinder extending below each of the valves; a tube connecting the upper portion of each cylinder with the upper side of the common conduit of the valve associated with such cylinder; a flexible conduit providing communication between the two cylinders; a liquid piston arranged within said flexible conduit; means for rotating said cylinders out of phase and in a substantially common plane and for tilting the valves back and forth.

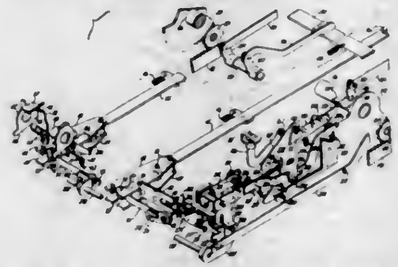


2,643,817
COMPRESSOR
Vadim S. Makaroff, New York, N. Y., and Alexis E. Jackson, Norwalk, Conn.
Application November 22, 1952, Serial No. 321,965
5 Claims. (Cl. 230—147)



1. A rotary compressor comprising a casing having a main cylindrical chamber, a valve chamber intersecting said main chamber and forming a pair of lips therewith, an eccentrically gyrating piston in said main chamber, an oscillatory valve member in said valve chamber, a discharge port in the valve member adjacent one of the lips, a tail blade on said piston and integral therewith, said valve member having a slot in which said tail blade reciprocates, said casing having a low pressure inlet duct and a high pressure outlet duct, said inlet duct communicating with said main chamber, said discharge port being adapted to connect said high pressure duct and said main chamber at times and to disconnect said high pressure duct and said main chamber at other times, as the valve member oscillates, characterized in this that the center line of the tail blade has such a position with respect to the center of the piston and with respect to the center of the valve member that, at any selected contact point of the piston with the wall of the main chamber on the compression stroke of the piston, predetermined for the beginning of the opening of the outlet duct, the center line of the tail blade is parallel to a line drawn from said contact point to the tip of the lip adjacent the discharge port whereby the closing of the outlet duct is completed when the point of contact of the gyrating piston with the wall of the main chamber reaches the said tip of the lip adjacent the discharge port.

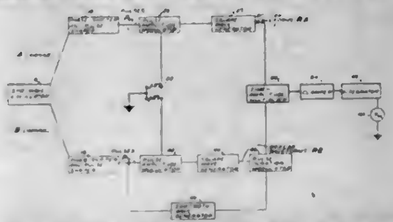
2,643,818
TOTALIZER FUNCTION SELECTION AND SYMBOL PRINTING MECHANISM
Arthur H. Sharpe, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application September 15, 1948, Serial No. 49,345
6 Claims. (Cl. 235—60.18)



5. In a credit balance computing machine wherein amounts are printed seriatim, a traveling carriage, a normally inactive totalizer comprising a plurality of axially aligned wheels, a cycling general operator, a group of indexable differential operator racks for running amounts into the wheels of said totalizer, a group of idler gears in mesh with said racks, a rock shaft, a ball member keyed to said rock shaft and movable to different lateral positions thereupon, means to rock said rock shaft and ball member during the early part of a cycle of the general operator, devices associated with said totalizer and said ball member whereby when said ball member is in one lateral position on said rock shaft, rocking of said shaft will cause the totalizer to be moved into direct engagement with the differential operator racks for "addiiton" and when said ball member is in another lateral position, rocking of said shaft will cause the totalizer to be moved into engagement with the idler gears for "subtraction," means operable by the traveling carriage to move said ball member to either an "addition" or a "subtraction" determining position in accordance with a preselected schedule, manually controlled means to reverse the position of said ball member so that even though "addition" may be selected by the carriage, the ball member will be moved to a "subtraction" determining position and vice versa, minus sign printing mechanism, means operable by the movement of said ball member to a "subtraction" determining position to condition said printing mechanism for actuation, and means operable by said general operator during a cycle thereof to actuate said minus sign printing mechanism.

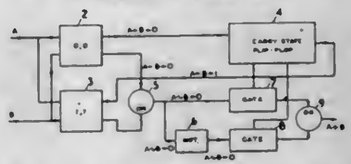
2,643,819
APPARATUS FOR COMPUTING CORRELATION FUNCTIONS
Yuk Wing Lee and Jerome B. Wiesner, Belmont, and Thomas P. Cheatham, Jr., Marlboro, Mass., assignors, by mesne assignments, to Research Corporation, New York, N. Y., a corporation of New York
Application August 11, 1949, Serial No. 109,786
9 Claims. (Cl. 235—61)

5. Apparatus for computing correlation functions of time series comprising means for generating two pulse trains, means for delaying the pulses of one train with respect to the pulses of the other train by a definite delay time, a pulse amplitude modulator for each train, said modulators operating on the pulse trains in accordance with instantaneous values of the time series, a square wave generator for each train, said square wave generators producing waveforms of constant duration and amplitudes corresponding to the amplitudes of the said modulated pulses, a sawtooth wave generator producing sawtooth-shaped waveforms at the same frequency as the pulse trains, a pulse duration modulator to which both the saw-tooth wave form



and one of the square wave forms are inputs, and whose output becomes zero when the sawtooth amplitude rises to a selected proportion of the square wave amplitude, whereby pulses are produced from the said sawtooth waveforms varying in duration as the amplitudes of one of the series of square waves, a duration-amplitude multiplier for obtaining pulses of varying durations and amplitudes and integrating means for said last-mentioned pulses.

2,643,820
CIRCUIT FOR ADDING BINARY NUMBERS
Frederic C. Williams, Timperley, Arthur A. Robinson, Scunthorpe, and Tom Kilburn, Davyhulme, Manchester, England, assignors to National Research Development Corporation, London, England
Application December 12, 1949, Serial No. 132,581
In Great Britain December 23, 1948
14 Claims. (Cl. 235—61)



10. A circuit arrangement for producing an output train of pulses representative of the sum of two input trains of pulses each of which is representative of a number in the binary digital code and consists of a plurality of sequential digit-representing intervals wherein the binary digit value "1" is represented by the presence of a pulse of predetermined polarity and the binary digit value "0" is represented by the absence of such a pulse, said arrangement comprising separate input circuits respectively receiving the signal content of corresponding digit intervals of said input trains, a comparison circuit coupled to said input circuits including pulse providing means operating when the signal contents of corresponding digit intervals are representative of the same binary digit value to produce a first output pulse together with either a first control pulse in response to like input signal contents of one binary digit value or a second control pulse in response to like input signal contents of the other binary digit value, switching means coupled to said comparison means including means respon-

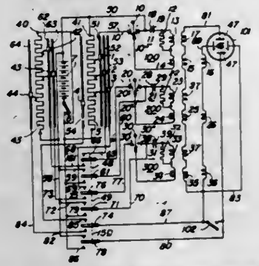
sive to said first and second control pulses and assuming a first switching mode in response to the termination of said first control pulses and assuming a second switching mode in response to the termination of said second control pulses, a first output circuit coupled to said comparison circuit and to said switching means, a second output circuit coupled to said comparison circuit and to said switching means including pulsing means generating a second output pulse when said corresponding input signal contents are of different states, said first and second output circuits including means responsive to the modes of said switching means to permit said first output pulse to pass through said first output circuit only when said switching means is of said first mode and to permit said second output pulse to pass through said second output circuit only when said switching means is of said second mode.

2,643,821

DEVICE FOR COMPUTATION OF ROOTS OF POLYNOMIALS

Louis C. Frager, Paris, France, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France, a corporate body of France

Application June 8, 1950, Serial No. 166,918
In France June 11, 1949
3 Claims. (Cl. 235—61)



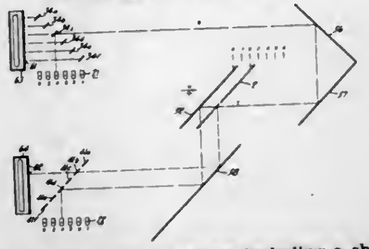
1. A computing device for determination of the roots of polynomials and of the sign of the real portion of the same comprising in combination a first circuit corresponding to the variable of the polynomial to be solved and comprising at least a first resistor and a first capacitor, a second circuit corresponding to the square of the variable and comprising at least a second resistor having a value equal to half the value of the first resistor and a second capacitor, a *n*th circuit corresponding to the *n*th power of the variable and comprising at least a *n*th resistor having a value equal to the *n*th fraction of the first resistor, and a *n*th capacitor, whereby all the circuits have attenuation factors proportional to the terms of an arithmetic series of a ratio 1, commutation means for respectively charging the capacitors of these circuits under voltages proportional to the constant coefficients of the first, second, *n*th powers of the variable in the polynomial to be solved, commutation means for simultaneously discharging the capacitors of said circuits, means for picking-up a first fraction of the discharge current of the first circuit equal to the cosine of a given angle and a second fraction of said discharge current equal to the sine of the said angle, means for picking-up a first fraction of the discharge current of the second circuit equal to the cosine of two times the given angle and a second fraction of said discharge current of the second circuit equal to the sine of two times the given angle, means for picking-up a first fraction of the discharge current of the *n*th circuit equal to the cosine of *n* times the given angle and a second fraction of said discharge current of the *n*th circuit equal to the sine of *n* times the given angle, means for obtaining a first sum of voltages comprising the voltage fractions equal to the cosine of the given angle and to the cosines of its integer multiples and a D. C. voltage proportional to the constant coefficient of the polynomial, means for obtaining a second sum of voltages comprising the voltage fractions equal to the sine of the given angle and to the sines of its integer multiples, a cathode ray tube, means for applying the first sum of voltages to the first pair of deflecting plates and the second sum of voltages to the second pair of deflecting plates of said cathode ray tube, means for varying the given angle until the curve drawn by the spot on the tube screen passes over the center of the screen and means for measuring the time interval between the beginning of the discharge and the passage over the center of the screen, whereby the phase of one root of the polynomial is equal to the angle for which the curve passes over the center of the screen and the modulus of said root is proportional to the logarithm of said interval.

2,643,822

OPTICAL SUMMATION AND DECIMAL STRUCTURE

Philip H. Allen, Orinda, Calif., and Benjamin J. Chromy, Washington, D. C.

Application April 24, 1946, Serial No. 664,476
25 Claims. (Cl. 235—63)



1. In a calculating machine including a shiftable register carriage having a register therein and a body containing a source of light for producing a light ray, a selection mechanism for effecting entry of values in said register, an optical system for indicating the decimal point of a result in said register including differential optical elements on said body and optical elements on said carriage, and means for transmitting said light ray from the optical elements on the carriage to the optical elements on the body and vice versa during shifting of said carriage without changing the direction of and without shifting the path of the light ray.

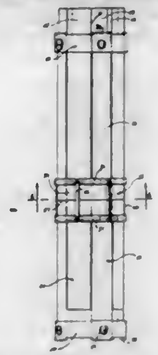
2,643,823

SLIDE RULE

Michael J. Quillinan, Bronx, N. Y.

Application November 24, 1950, Serial No. 197,286
15 Claims. (Cl. 235—79.5)

1. In a rule of the character described, stationary and sliding scales acting in combination, said stationary scale comprising a series of independently radially displaceable segments, said segments matingly contained in coaxial grooves provided on the face of said sliding scales along the length thereof, automatic adjusting and compensating means provided on each of said segments, said means maintaining said scales independently resiliently engageable with said grooves throughout the extremes of reciprocation.

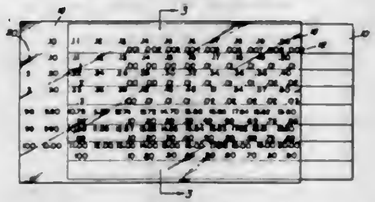


2,643,824

POCKET CALCULATOR

Hilmer Storbakken, Viroqua, Wis.

Application August 7, 1952, Serial No. 303,133
3 Claims. (Cl. 235—89)



1. A pocket calculator comprising a base sheet card having parallel rows of numbers thereon, said numbers representing the product for a given number of units per tenths of a cent per unit, and a transparent covering slidable over the base sheet and also having parallel rows of numbers thereon, the numbers on the covering representing the product for the same, number of units at whole cents per unit, the rows of numbers on the base sheet alternating with the rows of numbers on the covering, whereby a number on the covering may be added to a number on the base directly therebeneath.

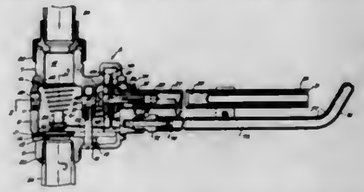
2,643,825

THERMOSTATIC DEVICE

Donald F. Drow, Los Angeles, Calif., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, a corporation of Delaware

Application February 10, 1950, Serial No. 143,555
10 Claims. (Cl. 236—48)

1. A thermostatic device comprising, a casing formed with an interior chamber having inlet and discharge openings and provided with a valve seat between said openings, a concavo-convex ring formed to snap through a center position in said chamber, a hub member supporting the inner periphery of said ring, means engaging the outer periphery of said ring on the concave side to afford snap action of said ring upon displacement relative to said hub member, thermostat elements having different coefficients of thermal expansion connected to said hub member and means for effecting relative displacement thereof and snap action of said ring means with temperature changes, an arm formed integrally with said ring and extending from the outer periphery thereof, the outer end of said arm being mounted in



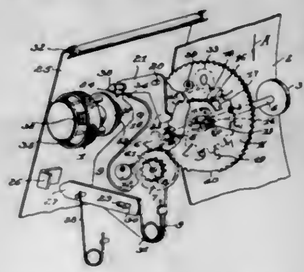
juxtaposition to said seat and being abruptly displaced to and from said seat upon snap action of said ring, a valve mounted for movement to and from said seat and actuated by the outer end of said arm, and guide means carried by said casing and coacting with said arm to maintain alignment of said arm and valve seat.

2,643,826

FILM FEEDING AND POSITION INDICATING MECHANISM FOR PHOTOGRAPHIC CAMERAS

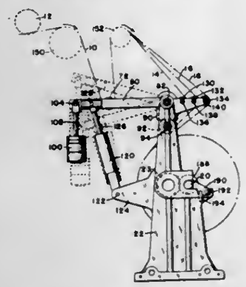
Wilhelm Knauf, Braunschweig, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Praxisions - Apparate, Braunschweig, Germany, a firm of Germany

Application February 7, 1951, Serial No. 209,765
In Germany February 23, 1949
13 Claims. (Cl. 242—71)



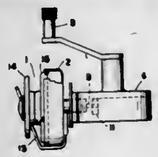
1. A photographic camera including a camera back movable between open and closed positions, film winding means, a rotary film position indicator, spring means tending to turn said position indicator individually in one direction to an initial starting position, a driving member turned by advancing movement of the film, an engageable and disengageable but normally disengaged operative connection between said driving member and said position indicator held engaged by the back when the latter is in closed position to turn said position indicator in a spring tensioning and opposite direction when said driving member is turned by an advancing movement of the film, and means for disengaging said operative connection when said camera back is moved to an open position, so that said spring means may restore said position indicator to its initial starting position.

2,643,827
WINDING APPARATUS
William H. Franzmann, Hamilton, Ohio, assignor to The Hamilton Tool Company, Hamilton, Ohio, a corporation of Ohio
Application January 25, 1951, Serial No. 207,817
5 Claims. (Cl. 242—75)



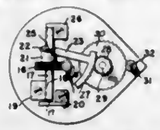
1. In a rewinding apparatus, the combination of rotatable means upon which a plurality of laterally spaced rolls of material are adapted to be wound, means for driving said rotatable means including an electromagnetic clutch, means for rotatably mounting a roll of material to be slit and rewound, means for slitting the material into continuous strips of lesser width, means for simultaneously applying a predetermined tension to said strips comprising a member extending across and suspended from said strips, means for utilizing movement of said member for varying the magnetization of said clutch, and a plurality of idler rollers, one for each strip of material, over which a strip passes prior to being wound onto said rotatable means, wherein the axis of rotation of each of said rollers is inclined relative to the other for effecting uniform lateral separation of adjacent edges of adjoining strips wound on said rotatable means.

2,643,828
NONFOULING SPOOL FOR FISHING REELS
Edwin E. Vincent, Springfield, Mass.
Application March 2, 1951, Serial No. 213,592
2 Claims. (Cl. 242—84.4)



2. A fishing reel construction comprising in combination, a frame, a rotatable cup-shaped flyer mounted on said frame, a shaft slidably mounted on said frame, and movable back and forth with respect to said flyer, a spool mounted on said shaft, and comprising spaced flanges for receiving a line therebetween, with one of said flanges providing edge notches, and a length of soft fibrous material laced between said notches, with said material being located entirely within said flange except where it provides short tufts of material projecting into the space between said flyer and said spool flange.

2,643,829
FISHING REEL
William E. Stanton, Corpus Christi, Tex.
Application December 16, 1947, Serial No. 791,987
3 Claims. (Cl. 242—84.4)



1. In a fishing reel having on-hand and off-hand gear casings maintained in parallel spaced relationship by supporting members, a rotatable spool shaft mounted in said casings, a worm on said spool shaft located within the off-hand casing, a worm wheel in mesh with said worm, an extension on the worm wheel, a single angular flat surface on the free end of said extension defining a cam surface, an oscillatably mounted arm actuated by said cam surface, a gear segment on said arm, a gear train actuated by the gear segment, a line guide mounted for rotation between said on-hand and off-hand casings, and means for imparting movement from the gear train to said line guide.

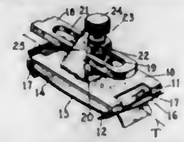
2,643,830
PACKAGE ADAPTER
Earl William Paeplow, Chester, and Messoud Kiachif, Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 7, 1949, Serial No. 97,527
1 Claim. (Cl. 242—124)



A removable flange, self-locking uptwister package assembly comprising a cylindrical core for supporting a square-ended yarn package; longitudinal lands along the full length of the inside surface of said core; a flanged adapter base having grooves to receive said lands at the bottom end of said core, said base having a recess to receive an end of said core which will substantially cover and substantially contact the bottom end of a supported square-ended yarn package; a cylindrical upstanding extension on said base bearing ribs, bracing and centering said base in said core; on the bottom side of said base a keyway cooperating with a driven spindle, a flanged adapter cap having grooves to receive said lands at the top end of said core, said cap having a recess to receive an end of said core and substantially covering and substantially contacting

the top end of said yarn package; and a downward extending cylindrical extension on said cap bearing ribs, backing and centering said cap in said core; a bore being provided through the aligned centers of the assembled said base, said core and said cap to permit mounting on said spindle.

2,643,831
YARN TENSION
Maurice R. Flamand, Central Falls, R. I., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application December 21, 1951, Serial No. 262,685
7 Claims. (Cl. 242—149)



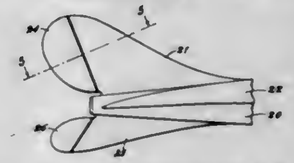
1. A yarn tension device comprising in combination a holder, flexible, thin, flat yarn engaging members each of which is restrained at both of its ends by said holder and between which a yarn to be tensioned is drawn, and a means for deflecting said yarn engaging members to bow them lengthwise thereby to increase the amount of tension to be imposed thereby.

2,643,832
AERODYNAMIC LIFT-PRODUCING DEVICE
Bryan Thwaites, London, England, assignor to The Imperial Trust for the Encouragement of Scientific and Industrial Research, London, England
Application January 26, 1949, Serial No. 72,812
18 Claims. (Cl. 244—40)



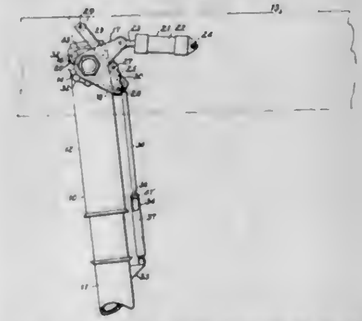
1. An aerodynamic device for producing variable lift, said device comprising an aerofoil having a leading portion and a trailing portion, the chordwise section of said trailing portion of the aerofoil being of rounded form, a porous skin on at least the trailing portion of the aerofoil, and means at least partially contained within said device and applied to the under-side of said porous skin for applying suction to the air flowing over said porous skin through the pores thereof; in combination with a spanwise thin plate-like trailing flap, means adjustably and revolubly mounting said flap on the aerofoil adjacent said trailing portion for movement peripherally of the trailing surface of the aerofoil in a direction substantially normal to the span of the aerofoil, guiding means included in said mounting means, said guiding means confining the movement of the flap to follow the contour of the surface of the trailing portion of the aerofoil, and means included in said guiding means for maintaining said flap, at all points of its operative movement, substantially normal to said surface.

2,643,833
EMPENNAGE CONTROL STRUCTURE
Edmond Ambroise, Rennes, France
Application September 22, 1949, Serial No. 117,241
4 Claims. (Cl. 244—83)



1. In an airplane, in combination, a wing structure, a central longitudinal body attached to said wing structure, a vertical split rudder attached to the rear of said body above the plane of said wing structure, a second vertical split rudder attached to the rear of said body below the plane of said wing structure and underlying said first rudder, each of said split rudders comprising right and left normally engaged fins, a single manually operable control member movably attached to said body, individual moving means attached to each of said four fins and adapted to swing the same outward, all said moving means being operatively connected to said control member, and means on said control member and operable by selective movements thereof to simultaneously actuate any two of said moving means, whereby said selective movement of said single control member may effect outward movement of any two of said four fins in combination.

2,643,834
MECHANICAL SHRINK STRUT FOR AIRCRAFT LANDING GEARS
Irving Watman, Hempstead, N. Y., assignor to Republic Aviation Corporation, near Farmingdale, N. Y., a corporation of Delaware
Application November 14, 1949, Serial No. 127,224
18 Claims. (Cl. 244—102)



6. The combination with the shock strut of a retractable landing gear consisting of an upper member and a lower member telescoped with and movable relative to the upper member and a power unit operatively associated with said upper member for retracting said shock strut by moving it a distance of predetermined magnitude, of means for reducing the length of said shock strut during its retracting movement comprising a laterally rigid, telescopic shrinking mechanism attached to the lower strut member and a differential operating mechanism connected to the shrinking mechanism and actuated

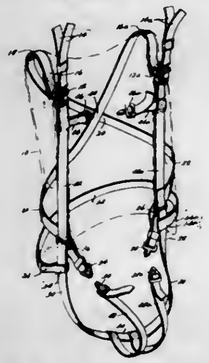
by the power unit to establish a fixed ratio between magnitude of movement of the shrinking mechanism and that of the strut in being retracted.

2,643,835
WATER PLANING UNDERCARRIAGE WITH FLOTATION MEANS FOR AIRCRAFT
Raymond B. Janney II, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware
Application July 11, 1950, Serial No. 173,094
6 Claims. (Cl. 244—107)



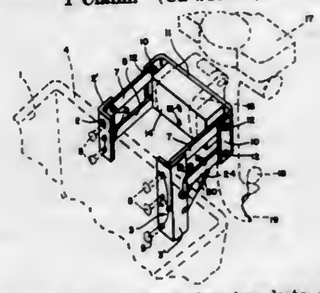
1. In combination with an aircraft undercarriage equipped with water planing landing members, said members having storage space on each of their respective upper surfaces for inflatable flotation means, formed with a plurality of separate compartments, a housing formed from the upper surface of said members between the storage spaces, a fluid pressure reservoir in said housing, an outlet valve forming a closure for said reservoir, said valve having a plurality of outlet connections, a fluid transfer hose connected with each outlet connection from one of each of the compartments of said flotation means, flexible means for tethering said flotation means to said upper surface of said members, and quick-detachable holders for said flotation members while they are deflated adapted to be released by said members as they inflate.

2,643,836
PERSONNEL PARACHUTE HARNESS
Charles E. Carroll, Dayton, Ohio
Application July 22, 1952, Serial No. 300,365
3 Claims. (Cl. 244—151)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a parachute harness, parachute riser fittings adapted to be spaced apart on a wearer's chest, a front strap depending from each riser fitting, a front strap lower link on the lower end of each front strap, a single strap connected to and starting from one of said fittings and extending upward and rearwardly over one shoulder, then downwardly and diagonally across the back toward one hip, around the waist above the hip and then diagonally downward and back up to form an adjustable leg strap portion then through one front strap lower link and downwardly and around the buttock of a wearer, then upwardly and through the other front strap lower link to form a seat sling, then diagonally downward and upward to form a second adjustable leg strap portion, then diagonally upwardly around the waist above other hip and rearward diagonally across the back and the other diagonal strap portion and over the other shoulder, then downwardly and secured to the other riser fittings, adjustable leg straps sewn to the buttocks portion of the said single strap midway of its length and extending forwardly in spaced relation to each other, complementary leg strap separable connector links on said forwardly extending leg straps and on the said main strap leg strap portions for connecting the main strap leg portions and said leg strap portions together to encircle the legs of a wearer.

2,643,837
MOTOR MOUNT
Walter Rivers, Coeur d'Alene, Idaho
Application April 28, 1950, Serial No. 158,811
1 Claim. (Cl. 248—4)

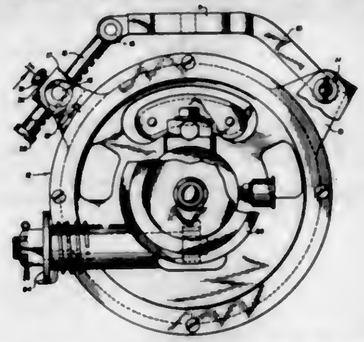


A motor mount comprising brackets adapted to be secured against a boat, upper and lower arms pivoted at front ends to said brackets and extending rearwardly therefrom, a plate extending between said arms and having ends bent forwardly and forming flanges to which rear ends of said arms are pivotally mounted to said plate for vertical movement to lowered and raised positions, said arms having front ends formed with lips constituting abutments for engaging said brackets and limiting downward tilting movement of the arms, a block secured against the front face in said plate, one of said arms having its lower edge formed with rack teeth facing forwardly, a pawl pivoted to the bracket to which the toothed arm is pivotally connected and disposed under the toothed arm, and a spring carried by said pawl and anchored to said bracket and urging the pawl upwardly into engagement with the rack teeth.

2,643,838
MOUNTING FOR SEWING MACHINE POWER UNITS
Albert M. Schweda, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Original application May 7, 1948, Serial No. 25,605. Divided and this application October 1, 1949, Serial No. 119,048
4 Claims. (Cl. 248—16)

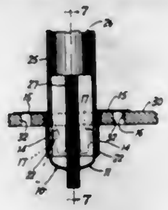
1. A mounting for a sewing machine power unit provided with a motor housing having flanges

projecting therefrom at opposite sides of a vertical plane containing the axis of said housing, said mounting comprising a supporting member, means pivotally connecting said member to one of said flanges at one side of said plane, a rack bar swivelly connected with said member at the opposite side of said plane, a block swivelly connected with one of said flanges at said opposite



side of said plane, said block having a passage therethrough arranged to receive said rack bar and having sliding engagement therewith, and a manually operable tooth carried by said block and urged yieldably into engagement with said rack bar to retain said block in a selected position in relation to said rack bar, said tooth upon manual operation serving to release said block for sliding movement along said rack bar.

2,643,839
TUBE MOUNT
Ivan Sislik, Irvington, N. J., assignor to The Palnut Company, Irvington, N. J., a corporation of New Jersey
Application July 29, 1948, Serial No. 41,290
7 Claims. (Cl. 248—27)



1. In a one-piece fitment of springy sheet metal for attaching a tube to an apertured plate and for adjustably positioning a threaded stem extending into the tube, said fitment having a bottom portion provided with a central hole the boundary of which is formed as female thread means for screw-threaded mating with the stem, having a pair of oppositely-positioned arms of arcuate cross section extending upwardly from the periphery of said bottom portion for clasping the side wall of the tube, having wings extending outwardly from said arms for yieldingly engaging the top surface of said plate when the fitment is telescoped into the aperture therein, and having oppositely-positioned latching tongues located between said arms and extending upwardly from the periphery of said bottom portion in position to engage the under surface of said plate when the fitment is telescoped into the aperture therein; the improvement which comprises: said bottom portion being severed through said hole in a diametrical zone which extends completely across the bottom portion and divides the bottom portion into two segments, and the zone of severance being disposed crosswise of the zone extending from one latching tongue to the other whereby the reactive forces exerted downwardly on the latching tongues by said plate when the fitment is mounted in the aperture therein act to urge the two segments of the bottom portion toward one another and establish substantial frictional engagement with the threaded stem.

2,643,840
HANGING OBJECT ANCHOR
Guy R. Lanman, El Reno, Okla.
Application January 4, 1949, Serial No. 69,185
1 Claim. (Cl. 248—29)



In an anchoring device, for a picture frame or any hanging object adapted to be suspended from a wall, means operatively connected to said picture frame or other hanging object for steadying the latter, said means comprising a headed nail projecting from said wall at a point lower than the point of suspension of the object against the wall, said anchoring device being releasably secured to the bottom of said picture frame or hanging object and to said headed nail, said anchoring device embodying a pair of elongated retaining members spaced apart for a distance greater than the diameter of the body of the nail and less than the diameter of the head of the nail, the said members being arranged substantially parallel with the frame and spaced therefrom, said members being adapted to be engaged with the head of the nail to hold the picture against lateral displacement with relation to its point of suspension, said retaining members defining sockets of arcuate formation therebetween.

2,643,841
VEHICLE STANDARD
Lee Wallace, Fort Worth, Tex.
Application March 1, 1948, Serial No. 12,449
2 Claims. (Cl. 248—43)

1. In a flag standard for detachable securement to the rain trough of a motor vehicle, in combination, a substantially triangular body member formed with a tubular socket at its apex, an offset flange formed along the base of said triangular body member and curved longitudinally to conform to the contour of the rain trough of a motor vehicle body forwardly thereof and extending therebeneath, a clamp hinged to said body and having means thereon for engaging said

rain trough behind said body and secure the same to said trough, and a spring engaging said clamp



for detachably retaining the same against said trough.

2,643,842
SACK HOLDER
John D. Discrens, La Russell, Mo.
Application September 5, 1950, Serial No. 183,216
3 Claims. (Cl. 248—97)



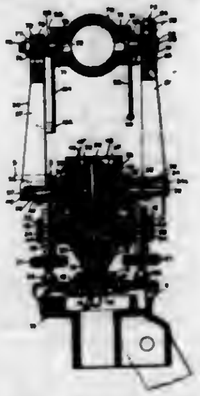
1. A sack holder comprising an elongated, upright standard having a base at the lowermost end thereof; a horizontal shaft rotatably carried by said base and said standard; a foot pedal secured to one end of said shaft; a head on the uppermost end of the standard; a pair of arcuate, sack-holding arms mounted at one end thereof on said head for swinging movement on spaced, vertical axes toward and away from each other; and structure operably interconnecting the shaft and said arms for swinging the latter on actuation of said foot pedal.

2,643,843
SAND-ANCHORING DEVICE
David Brown, New York, N. Y.
Application April 7, 1948, Serial No. 19,549
1 Claim. (Cl. 248—156)

A device for inserting and supporting a table, umbrella, or like implement in the ground, comprising a pole, an anchoring member fixed to the bottom end of said pole, and a handle assembly fixed to the top end of said pole, said handle assembly comprising a ring encompassing said pole and adapted to be attached to said implement, a pair of ears projecting laterally from opposite sides of said ring, and a pair of handles having respective bifurcated ends pivotally connected to a respective ear, each of said handles being adapted to be pivoted between a retracted position in which said handle is parallel to said pole to an extended position in which said handle is perpendicular to said pole, the outer end of each ear being downwardly and outwardly arcuated and being positioned to engage the bifurrated end of the respective handle member and prevent said handle member from being moved below its extended position, said anchoring member comprising a downwardly tapered body which has a pair of external lateral wings fixed thereto between the top and bottom of said body, the top of said body being fixed to said pole with the longitudinal axes of said pole and said body being on common line, the bottom end of said body being pointed, said wings being spaced circumferentially from each other, said wings being in respective planes which are inclined oppositely to a plane in which the longitudinal axis of said body is located, said wings being downwardly tapered and having sharp bottom edges.



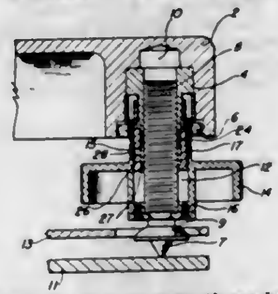
2,643,844
VERNIER CONTROL AND PIVOT MOUNTING FOR TRANSITS AND LIKE INSTRUMENTS
Henry C. Nette, Pasadena, Calif.
Application July 12, 1948, Serial No. 38,335
10 Claims. (Cl. 248—180)



1. In a transit construction of the character described, including a tripod plate, a leveling head, the leveling head having a central downwardly extending foot, a half ball bearing disposed beneath and supporting the foot and having rotational connection with the tripod plate, means connecting the tripod plate and leveling head together facilitating leveling of the head

with respect to the plate, said leveling head having an upwardly opening chamber, a standard plate having a tubular hub adapted to extend into said chamber coaxially therewith, a pair of half ball bearings at the upper and lower ends of the hub and having their circular faces in opposed relation, the lower one of the half ball bearings resting upon the bottom of said axial chamber, and means passing through the half ball bearings and through the hub and drawing said bearings together, said last means being secured in said foot.

2,643,845
ADJUSTABLE LEVELING SCREW
Allister L. Baker, Jersey City, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application July 28, 1947, Serial No. 764,106
5 Claims. (Cl. 248—180)



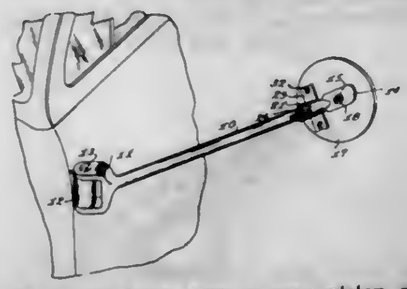
1. The combination of two threaded members engaging each other for holding and levelling an instrument over a base member, one of said threaded members being secured to the instrument and the other of said members being secured to the base member, one of said threaded members having two threaded portions engaging the other threaded member, and a third member threadably engaging one of said threaded portions and also engaging the other of said threaded portions for moving said threaded portions relative to each other so that opposite sides of the threads, in the axial direction, on the two threaded portions come in contact with the threads of the other threaded member to compensate for play in the engaging threads of the two threaded members.

2,643,846
CURTAIN ROD BRACKET
Ida Lundstrom, St. Louis, Mo.
Application July 22, 1947, Serial No. 762,656
2 Claims. (Cl. 248—262)



2. A curtain-rod carrier comprising an elongated flat plate-like member of greater height than width having a front face with parallel side edges and having parallel upper and lower edges, the upper edge of the plate-like member terminating in a forwardly projecting horizontally disposed flange having an opening therethrough and the upper end portion of one of the side edges of the plate-like member terminating in an arm projecting forwardly beyond the front edge of the flange.

2,643,847
MIRROR SUPPORT
Leo G. McDevitt, Lincoln Park, Mich.
Application April 6, 1951, Serial No. 219,632
3 Claims. (Cl. 248—276)



1. In combination with a rear vision mirror assembly including a supporting arm, a mirror having a sheet metal back and a universal joint connection between one end of said arm and the back of said mirror, a split clamp of resilient material secured around said arm at a location spaced from said universal joint connection and having an aperture in the portion thereof adjacent the back of said mirror, a screw threaded at one end into the aperture in said clamp and having a head on its other end, and means providing a joint of limited freedom of frictionally resisted movement between said screw head and said mirror back at a location spaced from said universal joint connection and about an axis substantially parallel to said arm.

2,643,848
WEDGE-ACTUATED CLAMP FOR RESILIENT TUBING AND THE LIKE
Joseph Hoffmann, Waterbury, Conn.
Application September 12, 1949, Serial No. 115,221
1 Claim. (Cl. 251—5)



In a clamp for adjustably gripping and compressing an elongated resilient yieldable round object, a U-shaped frame of thin rigid sheet material comprising a wide flat base and a pair of integral parallel legs perpendicular to said base, said legs having narrow central slots of unequal lengths being formed perpendicular to said base and extending from points adjacent said base, said legs having rounded outer ends, the ends of said slots remote from the base providing bearing points, a flat thin elongated wedge shaped member of rigid thin sheet material slidably fitted within said slots, the wedge shaped member having an outer edge engaging said bearing points in such manner that the inner edge of the wedge shaped member is in opposing parallel relationship with the base in all positions of the wedge shaped member, the outer ends of said wedge shaped member having rounded finger pieces bent over parallel to said legs, a U-shaped follower jaw of thin rigid sheet material fitted about the inner edge of said wedge mem-

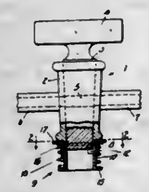
ber and having its side edges abutting the inner sides of said parallel legs, said jaw having a rounded looped edge for engagement with said round object.

2,643,849
SCREW ACTUATED VALVE WITH AUXILIARY THREADED STEM SUPPORT
Charles A. Davis, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application May 9, 1947, Serial No. 746,939
9 Claims. (Cl. 251—43)



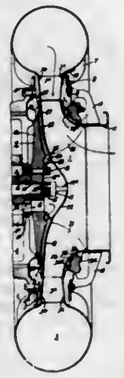
2. A valve comprising in combination a hollow body having a main portion and a branch portion, the main portion having an inlet port and an outlet port in axial alignment, an obliquely disposed wall in said main portion intermediate the said ports, the wall provided with an opening in alignment with the ports, the diameter of the opening in the wall being at least as great as the inside diameter of the said ports, the wall provided on its side toward the outlet port with a raised seat surrounding the opening and having an inside diameter greater than the diameter of the opening in the wall, the seat provided with a seating surface out of the flow path formed by the said ports and opening, a bonnet closing the branch portion of the body, a screw-threaded stem extending through and projecting from the ends of the bonnet and rotatable relative thereto, a valve disc secured to the stem and engageable with the seating surface, an elongated sleeve interposed between the bonnet and the stem and having threaded connection with the bonnet and with the stem, means on the stem to engage means on the sleeve when the stem moves from a closed position to an open position, and means on the stem to engage means on the sleeve when the stem moves from an open position to a closed position whereby the stem and sleeve rotate in unison after said engagements.

2,643,850
STOPCOCK MECHANISM
Aristodeme J. Cosmetto, White Plains, N. Y.
Application July 29, 1949, Serial No. 107,588
3 Claims. (Cl. 251—112)



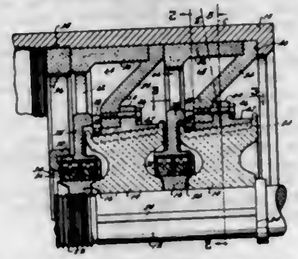
1. A device for urging a tapered stop cock stem having a circumferential groove formed at the lower end thereof to seated position in a tapered stop cock seat member comprising, in combination, an inner sleeve provided with an inturned flange at its upper end for engagement in the circumferential groove of the stem, the upper end of said inner sleeve being cut away at one side to enable the flange to be inserted laterally in the stem groove, the inner sleeve also having an outturned flange at its lower end, an outer sleeve slidingly mounted upon the inner sleeve and engageable with the stop cock seat member, said outer sleeve having an outturned flange which overlies the outturned flange of the inner sleeve, and a compression coil spring disposed around the sleeves between the outturned flanges to urge said flanges apart.

2,643,851
TURBO-MACHINE ROTOR WITH COOLING MEANS
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1948, Serial No. 29,456
5 Claims. (Cl. 253—39.15)



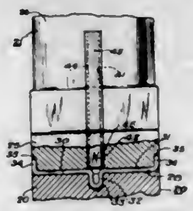
5. A centrifugal turbo-machine rotor for high-temperature operation comprising a hub portion, a web portion, an annular member supported on the web and defining a central axially directed opening and a plurality of radially extending passages for hot fluid communicating at their innermost portions with said central opening, the web and a portion of said annular member defining a plurality of circumferentially spaced radially extending coolant passages, means for detachably securing the hub to a supporting shaft in overhung relation thereto, a substantially conical shroud spaced axially from the hub to define a coolant inlet chamber communicating with the radially inner portions of said coolant passages, said conical shroud having a circumferential portion contacting the innermost circumferential portion of said annular member at a location radially outwardly from the shaft fastening means and the coolant passage inlets, means detachably securing the shroud to the hub for ready access to the hub securing means, the hub defining at least one coolant supply passage extending axially through the hub and communicating with said coolant inlet chamber, whereby cooling fluid may be supplied to the rotor from the shaft side thereof.

2,643,852
HIGH-SPEED TURBINE
Hans T. Holzwarth, Westfield, N. J., assignor to the United States of America as represented by the Secretary of the Air Force
Application January 9, 1950, Serial No. 137,615
6 Claims. (Cl. 253—48)



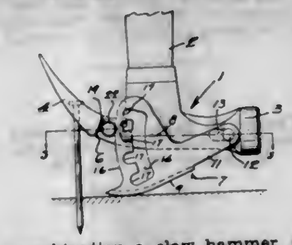
1. An elastic fluid turbine comprising a housing, a shaft centrally disposed in said housing, a bucket wheel of ceramic material fast on said shaft for rotation therewith, buckets formed in said ceramic on said bucket wheel, an axially-transverse section through said buckets midway of their axial width being in the form of ratchet teeth and the bottoms of said buckets being semi-circular in plan view, a ceramic diaphragm having inlet openings enclosing the inlet end of said housing, a second ceramic diaphragm axially spaced from the first leaving an inlet ring therebetween, shroud means of ceramic material overlying said buckets carried at the inner periphery of said second ceramic diaphragm constructed for confining the elastic fluid to the buckets, and tangential nozzles formed in said shroud means forming a connecting passage from the inlet ring to the buckets at the extreme forward edge of said buckets.

2,643,853
TURBINE APPARATUS
Arnold H. Redding, Swarthmore, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1948, Serial No. 40,731
5 Claims. (Cl. 253—77)



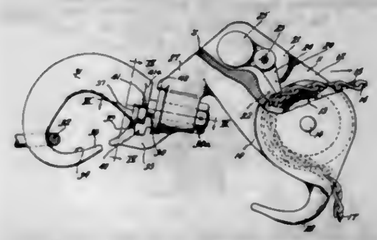
1. A blade for the rotor of a fluid pressure machine comprising a body having a root portion, said root portion having a pair of parallel slots disposed parallel to the blade axis radially of the rotor and forming a relatively narrow inner tongue portion flanked by lateral portions having surfaces of greater area in planes parallel to said slots, the sides of said tongue portion being disposed inwardly of the outer surfaces of said root portion, and vibration absorbent solid plastic material filling said slots and enveloping said tongue portion between said lateral portions.

2,643,854
ADJUSTABLE LEVERAGE CLAW HAMMER
Ray W. Johnson, San Jose, Calif., assignor to Le Tourneau, Inc., Longview, Tex.
Application August 24, 1951, Serial No. 243,569
6 Claims. (Cl. 254—26)



1. In combination a claw hammer, a heel at one end thereof, claws at the other end thereof, said claw hammer having a hole therethrough adjacent said heel extending from one face to the other face of said hammer head, said hole being elongated from said heel toward the middle of said hammer head, a fulcrum member, a pivot of said fulcrum member being slidable in said elongated hole, said fulcrum member including a bearing top generally conforming to the contour of the hammer head, a pair of spaced wings extended from said top over the opposite sides of the hammer head, each of said wings having an arcuate slot the arc of which is generally centered about the fulcrum of said fulcrum member, a plurality of keeper notches on the edge of said slot farthest from said fulcrum; an engagement pin extended through said hammer head and projecting beyond the opposite sides thereof and being generaly longitudinally aligned with the fulcrum hole, and being adapted to be engaged by a selected keeper notch in said arcuate slot to prevent the pivoting of said fulcrum member; and resiliently yieldable means to hold said fulcrum member in engagement with said engagement pin.

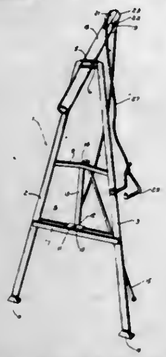
2,643,855
CAR DOOR OPENER AND CLOSER
Glenn W. Merritt, Bowerston, Ohio, assignor to The Nolan Company, Bowerston, Ohio, a corporation of Ohio
Application November 16, 1950, Serial No. 196,038
3 Claims. (Cl. 254—135)



1. A car door opening and closing device comprising: a pulley block including a housing formed at one end with a hook-carrying extension having a bore, an attaching hook for said block, a shank formed with and projecting longitudinally from the inner end of said hook, said shank being mounted for rotation and limited sliding movement in the bore formed in

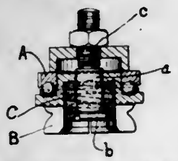
said housing extension; a flange integrally formed with the shank-carrying end of said hook, said flange being provided intermediately thereof with a notch, and a rigid finger projecting laterally from the forward end of said extension and engageable with the walls of the flange defining said notch to restrain said hook against turning movement when said hook and pulley block are subjected to oppositely directed pulling forces.

2,643,856
HOIST
Charles M. Sales, Seymour, Iowa
Application November 1, 1948, Serial No. 57,670
8 Claims. (Cl. 254—139)



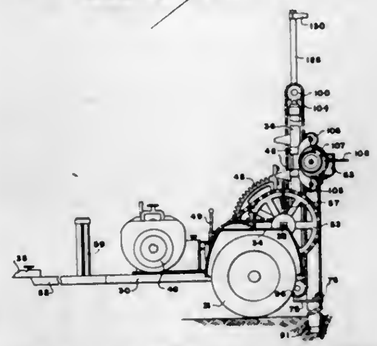
1. A hoist comprising a main body portion, a ledge on the main body portion below the top thereof and receiving a jack thereon, said jack having an extensible lifting element, a boom mounted on the main body portion and longitudinally movable through the top of the main body portion which latter provides a surrounding guide for the boom, said boom seated on the lifting element of the jack and movable with said lifting element, a line passing over the top of the boom having one end anchored and the other end of the line attached to a member to be lifted.

2,643,857
FILAMENT TENSIONER
John Oliver Reece and Stanley Henry Reece, Wandsworth, London, England
Application August 30, 1950, Serial No. 182,304
In Great Britain August 30, 1949
2 Claims. (Cl. 254—161)



1. A filament tensioning device comprising a rotary annular element having at least one end open and adapted to receive and hold one end of the filament, a spindle carrying said element rotatably thereon, the end of the spindle being spaced from an end of said element so as to leave the interior of said element accessible from said end thereof, said element carrying a first annular abutment surrounding the spindle, a second annular abutment surrounding the spindle and spaced from said first abutment, said abutments having surfaces which face each other and have an annular set of recesses in each of said surfaces, balls located between said surfaces, each ball being partly engaged in a recess of one abutment and partly engaged in a recess of the other abutment, a spring surrounding said spindle which urges said abutments towards each other, means on said spindle to transmit the force of said spring to said second annular abutment and a spring adjustment means including a portion located within the annular element and readily accessible at said open end of said element for adjustment whereby when the second abutment is rotated it will drive the said element until the tension on the filament reaches a predetermined limiting value according to the setting of the adjustment member whereupon the abutments separate against the action of the spring and ride over the balls.

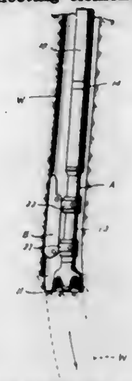
2,643,858
SOIL SAMPLING MACHINE
James A. Hardman, Logan, Utah, assignor to Utah Scientific Research Foundation, Logan, Utah, a corporation of Utah
Application June 14, 1948, Serial No. 32,847
19 Claims. (Cl. 255—1.4)



17. A drill tube assembly for use in obtaining core samples of soil, comprising an external drill tube; a soil sample tube concentrically disposed within said drill tube for receiving core samples of soil cut by said drill tube, said soil sample tube having an external collar at its drill end which is longitudinally slotted at intervals about the inner circumference thereof; arcuately formed and resilient fingers slidably disposed within the respective slots of said collar; a control tube snugly and concentrically fitted about said soil sample tube for telescopic movement relative thereto, said control tube terminating sufficiently short of said collar in its normal position to provide retracted positioning for said fingers; and means for telescoping said control tube downwardly relative to said sample tube for pushing said fingers into core-retaining extended position.

2,643,859
DEFLECTING TOOL
Guy Eastman Brown, Houston, Tex.
Application November 12, 1949, Serial No. 126,730
15 Claims. (Cl. 255—1.6)

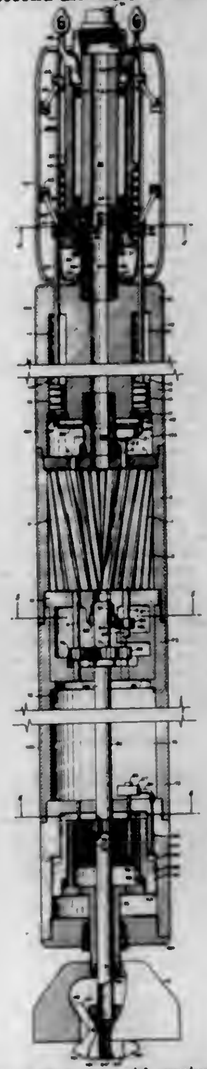
1. A deflecting tool including, a tubular body, an anchoring collar rotatably confined on the lower portion of the body, an actuating collar rotatable and longitudinally movable with respect to the body and spaced from the anchoring collar, an arcuate deflecting element, pivoted links connecting the deflecting element to the anchoring



collar and to the actuating collar, and means for moving the actuating collar with respect to the anchoring collar for swinging said links to effect an outward radial movement of the deflecting element.

2,643,860
ROTARY DRILLING MECHANISM
Carl W. Koch, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 22, 1950, Serial No. 163,350
13 Claims. (Cl. 255—4)

1. A bottom hole drilling assembly adapted to drill a bore hole comprising, in combination, a cylindrical casing, a hollow tube attached by a nipple to one end of said casing to form a fluid passageway through said tube and said nipple into said casing, said nipple and said tube having an annular groove at their juncture, a frame rotatably supporting said tube and said nipple, a plurality of dogs laterally expansible from said frame means of upper and lower arms and adapted to press against the walls of said bore hole when in an expanded position to prevent rotation of said frame, an annular lip extending from said frame into said annular groove at the juncture between said tube and said nipple, an annular cam depending from the lower surface of said lip, a screw-type fluid motor situated in a fluid-tight compartment in said casing, said compartment being connected to said fluid passageway in said tube and said nipple, said motor being adapted to be driven by fluid passing into said fluid-tight compartment from said tube and comprising a pair of oppositely rotating rotors, a hollow inner bit driving shaft rotatably depending from said fluid-tight compartment containing said rotors and extending through the lower end of said casing, an inner drilling bit attached to said inner bit driving shaft externally of said casing, said inner bit comprising a cutting bit having a plurality of laterally expansible equalizing reamers pivotally mounted thereon, said inner bit further having a fluid passageway therein connecting internally to said inner bit drive shaft so that fluid discharged from said fluid motor will pass through said inner bit drive shaft and out said fluid passageway in said bit, a means for driving said inner bit drive shaft comprising a driven gear attached to said inner bit driving shaft, a driving gear coacting therewith to transmit rotative force from one of said rotors of said motor to said inner bit driving shaft, a second driving gear likewise coacting with said driven gear on said inner bit driving shaft, a reversing gear driving said second driving gear and being driven



by a second rotor of said motor turning oppositely from the first said rotor through a third driving gear whereby said oppositely rotating rotors of said motor coact to drive said inner bit drive shaft, an outer bit adapted to rotate in an opposite direction around said inner bit and to be extended and retracted longitudinally with respect to said inner bit, said outer bit having an inner surface which coacts with the arms of said reamers so as to extend the opposite cutting ends of said reamers laterally from said

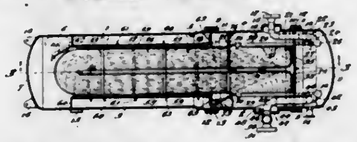
inner bit when said outer bit is retracted and to contract said cutting ends toward said inner bit when said outer bit is extended, a rotatable outer bit driving shaft attached to said outer bit and slidably extending through said casing, a means for rotating said outer bit driving shaft in a direction opposite to that of said inner bit shaft comprising a female ring gear attached to said outer bit drive shaft, a plurality of reverse idler gears slidably coacting with and rotatably driving said female ring gear and being driven by a drive gear attached to said inner bit drive shaft whereby said inner bit drive shaft rotates said outer bit drive shaft in an opposite direction from its own rotation, a hydraulic piston attached to said female ring gear and forming a hydraulic cylinder with a portion of said casing, a centrifugal pump driven by one of said reverse idler gears and adapted to pump fluid from a lower hydraulic reservoir in said casing into said hydraulic cylinder to thereby cause said piston to extend said outer bit with respect to said inner bit, a first fluid passageway from said hydraulic cylinder through said casing and through said nipple to said annular groove between said tube and said nipple, a valve in said passageway, said valve having a stem adapted to be pushed down to unseat said valve and being further adapted to coact with said annular cam so that rotation of said nipple and said casing by the unbalanced torque of said counterrotating bits will cause said valve to become seated and unseated responsive to the rotation of said nipple and said casing to thereby regulate the flow of fluid through said pump and said passageway, a second fluid passageway connecting said annular groove with said lower hydraulic reservoir, a means for expanding said dogs against the walls of said bore hole comprising a plurality of hydraulic cylinders actuated by hydraulic fluid from a pump driven by said mud motor, last said pistons having piston rods coacting with a collar slidably mounted on said frame, and pivotally mounted arms connecting said collar and said dogs so that when last said hydraulic pistons are actuated by fluid pressure, said piston rods push said collar along said frame to extend said dogs to grasp the walls of said bore hole.

2,643,861
FABRICATED KELLY
Thomas B. Losey, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware
Application July 11, 1947, Serial No. 760,323
8 Claims. (Cl. 255—28)



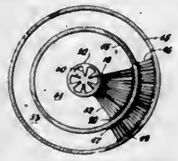
8. In a well kelly, an elongated poly-sided casing having a plurality of slotted openings arranged in each end thereof; a cylindrical liner arranged within the casing and extending therethrough, the external diameter of the liner being sufficient to cause engagement between the liner and the inner faces of the casing; attachment subs overlapping each end of the liner and extending inwardly of the casing, each such slotted opening being sufficient in extent to allow projection of a part of the sub wall therein.

2,643,862
STEAM REHEATER
John Henry Stelling, Quincy, Mass., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application February 18, 1949, Serial No. 77,257
4 Claims. (Cl. 257—239)



4. In a steam reheater for marine use, the combination of a horizontal shell divided into two sections removably secured together, an inlet connection for the steam to be reheated in the upper part of one end of the shell, an outlet connection for the reheated steam in the upper part of the opposite end of the shell, an inlet connection for reheating steam adjacent the reheated steam outlet, an outlet connection for said reheating steam in the bottom part of the shell vertically beneath the reheating steam inlet, a plurality of unitary U-tube elements including inlet and outlet manifolds connected to the inlet and outlet connections for the reheating steam and comprising a horizontal tube bundle, tube support means providing a serpentine path for the steam to be reheated across the tube bundle, horizontal plates above and below the tube bundle to confine the steam to be reheated to the desired path, and an impingement baffle interposed between the inlet connection for the steam to be reheated and the tube bundle.

2,643,863
RECUPERATIVE HEAT EXCHANGER AND PROCESS OF PRODUCING SAME
Herman F. Buschow, North Arlington, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application September 9, 1948, Serial No. 48,508
7 Claims. (Cl. 257—246)

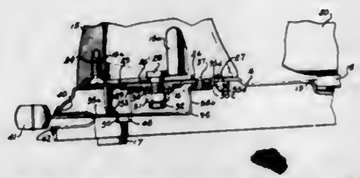


1. The process of producing a heat exchange element, which comprises rotating a metal tube, feeding a thin, flat metal strip toward the rotating tube in a plane substantially normal to said rotating tube, forming flanges on the opposite longitudinal edges of said strip, cutting the portion of said strip between said flanges along closely spaced lines extending substantially the full distance between said flanges and deflecting

the material between each pair of said lines to provide vanes defining closely spaced, open passages in said strip, substantially the entire portion of said strip between said flanges being thus deflected out of its original plane to provide said vanes without waste and being thus utilized as heat exchange surface, crimping one of said flanges to produce closely spaced successive crimps substantially at right angles to the length of said flange, and after flanging, cutting, deflecting and crimping said strip winding said strip on said rotating tube to form a helix in which the successive convolutions are at least substantially abutting and the crimped flange of said strip is in contact with the exterior surface of said rotating tube.

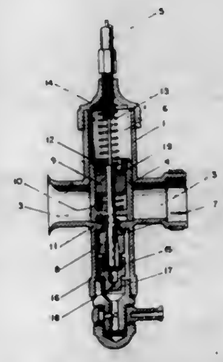
4. A heat exchange element comprising a metal tube and a helix of metal ribbon wound on the exterior surface of said tube, said ribbon comprising a crimped flange portion in contact with the exterior surface of said tube, a smooth continuous flange portion along the edge of said ribbon opposite the edge with said crimped flange portion and an integral body portion between said crimped and smooth continuous flange portions, said integral body portion having the form of a multiplicity of closely spaced vanes deflected into planes substantially at right angles to the original plane of said ribbon and each vane extending substantially equidistantly above and below said original plane, said vanes defining closely spaced, open passages through substantially all of said integral body portion, said passages being substantially at right angles to the original plane of said ribbon and extending through said helix longitudinally of said tube, and said smooth continuous flange portion forming a quasi-cylindrical shell enclosing said tube and helix.

2,643,864
FOOD MIXER
Bernard Alton Graham, Chicago, and Ivar Jepson, Oak Park, Ill., assignors to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application January 31, 1951, Serial No. 208,709
8 Claims. (Cl. 259—84)



1. In a food mixer, the combination of a base, a turntable mounted on said base and shaped to support a mixing bowl, a mixing bowl supported by said turntable, an upright rotatably supported on said base to turn about a vertical axis, a beater supported on the upright and disposed to be received in said bowl, a disk having a gear formed thereon and secured to said upright with the gear concentric with respect to said axis, a shaft rotatably mounted on said base to turn about an axis eccentric with respect to the first mentioned axis, a gear rigidly affixed on one end of said shaft and disposed to mesh with the gear on said disk, a lever rigidly secured to the opposite end of said shaft and arranged to be accessible from the exterior of the base, said gears and lever being so arranged that a large adjustment of the lever effects a small powerful movement of the upright whereby to positively shift the beaters relative to the bowl.

2,643,865
CARBURETOR FOR INTERNAL-COMBUSTION ENGINES
Cyril R. B. Smith, Sutton Coldfield, and Frank H. T. Izon, Birmingham, England, assignors, by mesne assignments, to Amal Limited, Birmingham, England, a British company
Application August 23, 1950, Serial No. 180,964
In Great Britain September 5, 1949
1 Claim. (Cl. 261—44)

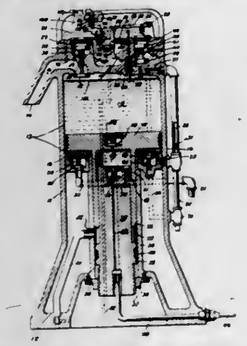


A carburettor for internal combustion engines having in combination a substantially vertical tubular body portion, a substantially horizontal induction chamber disposed therethrough, an air throttle sleeve arranged slidably within said body portion, a taper needle fuel valve arranged slidably within the throttle sleeve, and adapted to regulate the flow of fuel through a metered orifice, the lower tip of said needle being adapted to cooperate with a valve seating to constitute a shut-off valve for the supply of fuel to said orifice, said throttle sleeve being resiliently mounted in relation to said needle valve, means for actuating said needle valve, an abutment associated with said needle valve, an abutment associated with said throttle sleeve, said abutments being slightly spaced from each other when said needle valve is in fuel shut-off position, and said abutments being disposed for engagement after initial movement of said needle valve from fuel shut-off position, whereby subsequent movement of said needle valve effects simultaneous movement of said throttle valve.

2,643,866
APPARATUS FOR DISPENSING CARBONATED BEVERAGES
Paul Kollsman, New York, N. Y.
Application February 15, 1946, Serial No. 647,805
10 Claims. (Cl. 261—76)

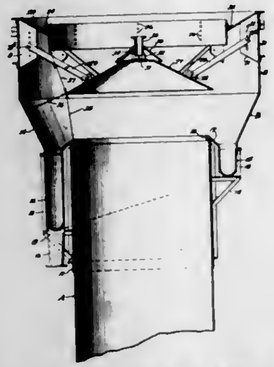
1. A beverage dispenser comprising, in combination, a variable volume chamber; a source of supply of beverage under CO_2 pressure; an admission valve between said chamber and said source; a discharge spout; a discharge valve between said chamber and said spout; a servomotor operable by CO_2 under pressure for actuating each

of said valves; a control valve for operating both of said servo-motors; and means for urging said



chamber towards the adjustment of minimum volume.

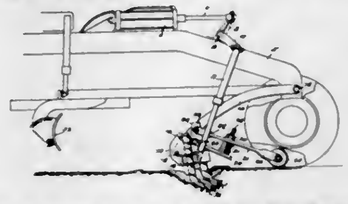
2,643,867
CUPOLA STACK OR TOWER
Claude B. Schneible, Detroit, and Alvin S. Lundy, Huntington Woods, Mich., assignors to Claude B. Schneible Company, Inc., Detroit, Mich., a corporation of Michigan
Application January 26, 1950, Serial No. 140,568
4 Claims. (Cl. 261—126)



1. In a tower structure, a shell forming an upper extension of said tower and providing an upwardly and outwardly-inclined annular wall, a deflector flange extending inwardly from the top of said wall, a deep ring abutting the inner edge of said deflector flange, means for supporting said ring in vertically adjustable position upon said flange, a deflector plate vertically aligned with the top of said tower, and means for suspending said deflector plate at different heights to vary the distance between the plate, said inclined wall and said deep ring.

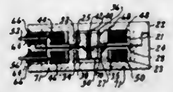
2,643,868
DEPTH CONTROL MEANS FOR SCARIFIERS
Carl B. Covington, Fredericksburg, Va.
Application May 4, 1950, Serial No. 160,074
1 Claim. (Cl. 262—10)

A scarifier attachment for road machines, comprising a horizontal frame having openings in which scarifying teeth are mounted, pairs of spaced supporting plates rising from said frame, said plates having elongated openings, supporting arms having their forward ends connected with the road machine, means for pivotally connecting the rear ends of the supporting arms between said supporting plates, bolts extending through said arms and elongated openings of said supporting plates, securing said frame in various angular positions with respect to the supporting



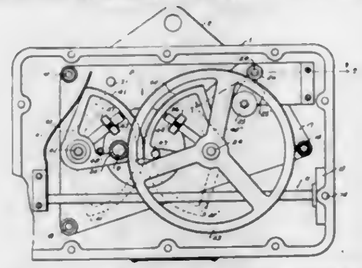
arms, a gauge arm connected to said frame at a point intermediate the ends of the frame and between said supporting arms, said gauge arm extending forwardly from the scarifier frame, a roller mounted on the forward end of the gauge arm, and said roller being movable over the road surface in advance of the scarifier, raising and lowering the scarifier as the roller moves vertically.

2,643,869
ACCELEROMETER
James Clark, Dayton, Ohio
Application January 15, 1948, Serial No. 2,384
25 Claims. (Cl. 264—1)



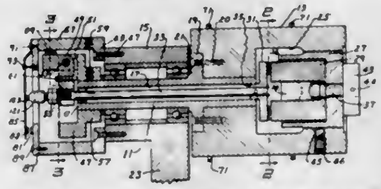
1. An accelerometer containing a pair of magnetic circuits including a rigid member of magnetic material for each circuit and a spring member of magnetic material common to and forming an integral part of the two circuits, each of said rigid members having thereon a pole piece, and said spring member being located between the two rigid members and engaging them at corresponding parts of the two circuits and being separated from the pole pieces to form air gaps therewith, one on each side of the spring member, said spring member flexing in response to accelerations to simultaneously increase one air gap and decrease the other air gap, thereby varying the reluctance of the magnetic circuits according to accelerations; two transformers, one for each magnetic circuit, each transformer mounted on the pole piece of its related magnetic circuit, which pole piece serves as a core therefor and magnetically couples the primary and the secondary of the transformer so that voltages induced in the secondary coil will vary when the reluctance of the magnetic circuit varies in response to accelerations; means supplying alternating-current operating potential to the primaries of both transformers; means connecting the secondaries in an output circuit whose output varies with variations in induced voltages in the secondary coils; and means controlled by the output circuit for manifesting the variations therein, the manifestations, when compared with a calibration chart made with known accelerations, giving the magnitude of the accelerations.

2,643,870
INTEGRATING ACCELEROMETER
John H. Andresen, Jr., Greenwood Lake, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force
Application December 11, 1951, Serial No. 261,093
2 Claims. (Cl. 264—1)



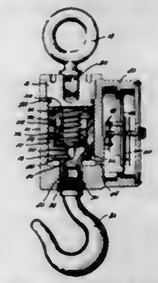
1. An integrating accelerometer comprising, a pair of similarly shaped rotatably mounted gear sectors in meshing relation and having a sensitive direction of movement under the force of acceleration extending along the common tangent at the point of meshing engagement, a rotatably mounted indicating means, a gear wheel concentrically mounted for rotation with respect to one of said gear sectors and having a portion engageable by a projection on said one gear sector for rotating said gear wheel in one direction of rotation on rotation of said one gear sector in said one direction, a spring latch adjacent to said one gear sector and adjacent to said gear wheel to engage one side edge of said one gear sector and retain said gear sectors in an inactive position, a shaft slidably and rotatably mounted adjacent to said gear wheel, a first pinion on said shaft adapted to engage said gear wheel in meshing relation and also adapted to engage said latch for releasing the latch from said one gear sector, a second pinion in meshing relation with said gear wheel and connected to said indicating means, and a magnetically damped metallic member connected to said indicating means, and rotatable simultaneously therewith to integrate the displacement of said indicating means due to acceleration of said gear sectors in said sensitive direction, whereby said indicating means will indicate the velocity attained by the accelerometer during a particular limited course of travel extending in said sensitive direction.

2,643,871
MAGNETICALLY BIASED CENTRIFUGAL SPEED SENSING MEANS
Frederick P. Warrick, Birmingham, Mich.
Application November 30, 1951, Serial No. 259,057
8 Claims. (Cl. 264—3)



1. Speed responsive control apparatus comprising, rotary means adapted to be rotatively supported and rotated in accordance with a speed to be observed or regulated, speed sensitive means, means movably mounting said speed sensitive means on said rotary means for rotation therewith and having a movement relatively thereto in accordance with the speed of rotation, an armature mounted movably on said rotary means by connection means connecting it to said speed sensitive means to be moved in a predetermined direction parallel to the axis of rotation by movements of said speed sensitive means, a source of magneto-motive-force mounted adjacent said armature to attract the armature in a direction opposite to said predetermined direction for resisting such movements of the armature by said speed sensitive means until a predetermined speed has been reached to cause the speed sensitive means to apply sufficient force to move with the armature thereby causing the magnetic force on the latter to suddenly collapse thus releasing the speed sensitive means which completes a predetermined movement in response to such predetermined speed, and control means actuated by said predetermined movement of the speed sensing means.

2,643,872
HYDRAULIC LIFT SCALE
William M. Wise, Royal Oak, Mich.
Application May 4, 1948, Serial No. 25,006
14 Claims. (Cl. 265—47)

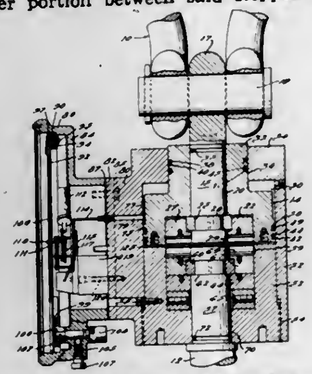


1. A weighing scale comprising a housing having a closed pressure cylinder therein, a piston within the pressure cylinder and movable relative thereto, a fluid pressure medium within said cylinder between said piston and one end wall of the cylinder, a fluid pressure gauge in communication with the pressure medium, said piston having a closed air pressure chamber therein, a pressure release valve for admitting fluid under pressure through said piston from the pressure cylinder to the air chamber when the pressure in said cylinder rises above a predetermined value, and a check valve in said piston for returning the fluid from the air chamber to the pressure cylinder.

2,643,873
HYDRAULIC WEIGHING SCALE AND METHOD OF CHARGING AND CONDITIONING THE SAME
William M. Wise, Royal Oak, Mich.
Application January 19, 1950, Serial No. 139,446
7 Claims. (Cl. 265—47)

1. In a hydraulic weighing scale, a piston, suspension means connectible to the piston from one end, a casing incorporating a cylinder portion slidably fitted over the piston, suspension means connectible to the casing in substantial axial alignment with the piston, said piston being of

stepped formation and the casing having a head wall overhanging a stepped portion of the piston, resilient annular sealing gaskets engaging the piston and casing upon opposite sides of said last-mentioned stepped portion of the piston, and a cylinder portion between said stepped portion



and the overhanging head wall defining a pressure chamber, said sealing gaskets being housed in peripheral grooves which are substantially longer in an axial direction than the gaskets and being arranged at the opposite outer ends of such grooves.

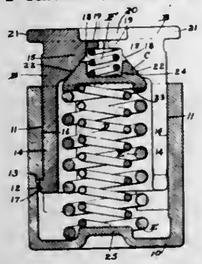
2,643,874

FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application April 12, 1950, Serial No. 155,474

1 Claim. (Cl. 267—9)



In a friction shock absorber, the combination with a friction casing; of a plurality of friction shoes slidingly telescoped within the casing, said shoes having their outer ends projecting beyond the outer end of the casing to receive the actuating force, said shoes having wedge faces thereon, all of said wedge faces of said shoes facing inwardly only; a combined spring follower and wedge member having wedge faces at its outer end in wedging engagement with the wedge faces of said shoes throughout the compression stroke of the mechanism, said member having an upwardly opening spring pocket therein, said shoes having laterally inwardly projecting flanges at their upper ends; spring elements within the casing bearing on said member for yieldingly opposing inward movement of the latter and a release spring under initial compression having one end seated in said pocket and the other end bearing on the flanges of said shoes.

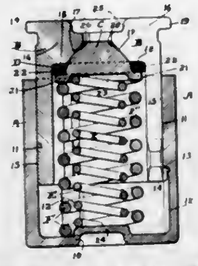
2,643,875

FRICTION SHOCK ABSORBER FOR TRUCKS OF RAILWAY CARS

George E. Dath, Mokena, and Edward H. Lehman, Chicago, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application May 1, 1950, Serial No. 159,348

1 Claim. (Cl. 267—9)



In a friction shock absorber, the combination with a friction casing; of a plurality of friction shoes slidingly telescoped within the casing, each shoe having a downwardly facing abutment shoulder thereon; a combined wedge and spring follower member in wedging engagement with said shoes; an outwardly projecting, annular flange on said member; a rubber ring between said flange and the shoulders of the shoes, said ring bearing at its top and bottom sides on said shoulders and said flange, respectively, said ring being under initial compression; and spring means within the casing yieldingly opposing movement of said member inwardly of the casing.

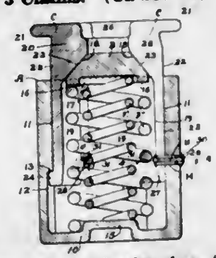
2,643,876

FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application May 12, 1950, Serial No. 161,685

3 Claims. (Cl. 267—9)



1. In a friction shock absorber, the combination with a casing open at one end, said casing having interior friction surfaces; of a unit, composed of a plurality of friction shoes telescoped within the casing in sliding engagement with the friction surfaces thereof; a combined wedge and spring follower member in wedging engagement with the outer ends of the shoes; removable pins secured to said casing and extending between adjacent shoes engageable by the opposite side edges of adjacent shoes to limit circumferential contraction of said unit and thereby restrict inward tilting of said shoes of the latter at the lower ends thereof; and spring means within the casing bearing on said member to yieldingly oppose inward movement thereof.

2,643,877

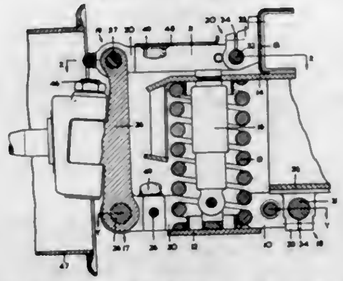
INDEPENDENT SUSPENSION FOR MOTOR VEHICLE ROAD WHEELS

Archie John Hirst, Leicester, England

Application March 28, 1951, Serial No. 218,013

In Great Britain April 4, 1950

4 Claims. (Cl. 267—20)



1. Independent suspension for a motor vehicle road wheel comprising in combination with a wheel hub carrying member and supporting means on the motor vehicle chassis at least one divisible swinging wishbone link comprising a pair of side members, inner and outer hinge pins, the ends of which are reduced in cross-sectional area and connected to the side members, the hinge pins being supported intermediate their ends, the inner hinge pin by the supporting means on the motor vehicle chassis, and the outer hinge pin by the wheel carrying member, tying means for uniting the side members of the divisible swinging wishbone link, spacing means for preserving the distance apart of the side members, and conical rubber bushes, each conical rubber bush having a rubber element and inner and outer metal sleeves bonded to the rubber element, the conical rubber bushes being mounted one on each end of each hinge pin, their larger ends being inwardly directed and adjacent the plane of maximum bending moment on the hinge pin due to the overhanging load of the side members, the side members being supported on the ends of the hinge pins by the exterior surfaces of the conical rubber bushes, the conical rubber bushes being axially compressed in assembly by the side members of the divisible swinging wishbone link urged together by the tying means, the amount of precompression being limited by the spacing means.

2,643,878

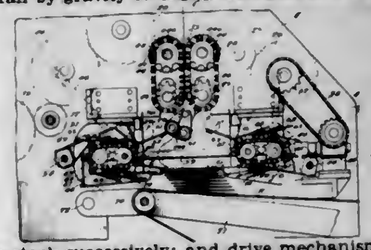
FOLDING MACHINE FOR CONTINUOUS STRIPS OF STATIONERY

John Lach, Chicago, Ill., assignor to Uarco Incorporated, a corporation of Illinois

Application August 14, 1950, Serial No. 179,152

6 Claims. (Cl. 270—39)

1. A folding machine for continuous strips of stationery, comprising: a frame provided with a feed wheel with pins to engage marginal perforations in the strips and align the strips; a pair of opposed creasing devices mounted on the frame and having a plurality of complementary tongue and groove members to form creases alternately in opposite directions in the advancing strips of stationery; a driven distributing device for drawing the creased strips from the creasing devices; a pair of pressure arms for alternately engaging the strips adjacent to each advancing crease and compressing said strips into a zig-zag folded stack; a plurality of hingedly supported holding arms mounted adjacent the stack so as to fall by gravity to engage and press the top of



the stack successively; and drive mechanism for operating said creasing devices, pressure arms and holding arms in timed relation.

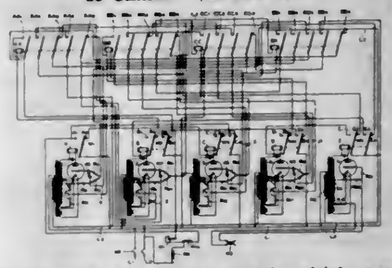
2,643,879

CONTROL SYSTEM FOR FOLDING MACHINES

Edwin Henry Spreckelmeier, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio

Application December 26, 1947, Serial No. 794,049

15 Claims. (Cl. 270—81)



1. In apparatus of the type in which operating means performs an operation, proportionate to article length, upon each of a series of articles fed in succession along a path, improved controlling means for said operating means, comprising a plurality of article measuring units, each capable of independently performing a measuring operation, each operatively associated with said operating means to control and cause actuation thereof, a single trip device cooperating therewith and so located as to be sensitive to travel of an article along said path, movable selector means controlled by said trip device and operatively connected to said measuring units and adapted by its movement to cause one of said units in cooperation with said trip device to first measure an article and then to cause actuation of said operating means, and a controller also sensitive to travel of an article along said path for designating which of said units becomes operative upon operating movement of said selector means in response to the next following article.

2,643,880

SHEET TRANSFER MEANS

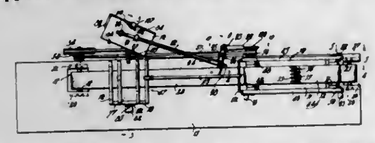
Frank S. Eisaesser, Cincinnati, Ohio

Original application May 11, 1945, Serial No. 593,285. Divided and this application November 14, 1947, Serial No. 786,121

8 Claims. (Cl. 271—42)

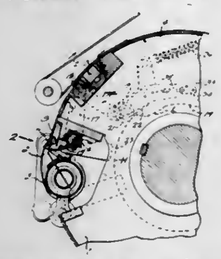
1. In a device of the class described, the combination of a stationary support for a stack of

individual paper articles, a second support to one side of the stack for receiving, by transfer, the articles, individually, from the stack, the uppermost article of the stack being at all times above the transfer support, means for transferring said upper-most article from the stack to the transfer support comprising an oscillatable arm overlying the stack and in engagement with the uppermost article for sliding the same to the support upon oscillation to a position over said support, means for supporting said arm and oscillating same for raising said arm from the transfer support to the stack level upon return oscilla-



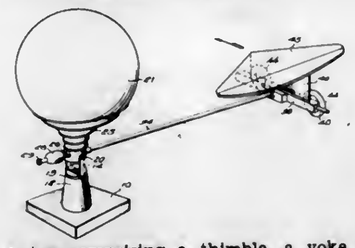
tion of the arm, said arm supporting means comprising a post, a cross arm pivotally mounted intermediate its ends to the post, said cross arm having secured to its one end the oscillatable arm, and actuating means connected to the cross arm other end operable for oscillating the cross arm and biasing the said arm to cause a dropping of the oscillatable arm from the stack height to the transfer support height during transfer of the individual article and for biasing said cross arm for raising the oscillatable arm from the transfer support to the stack level upon return of the oscillatable arm to the stack height.

2,643,881
FRONT STOP ASSEMBLY
Alexander J. Albrecht, West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application July 1, 1949, Serial No. 102,681
7 Claims. (Cl. 271—53)



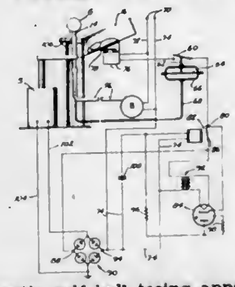
1. In a sheet registering mechanism comprising a rotatable registering cylinder and means for advancing a sheet thereon for registering the same, and in combination, preliminary register mechanism within the registering cylinder and movable between a protracted position for stopping the advance of a sheet over the cylinder and a retracted position below the surface of the cylinder and final register mechanism operable while the sheet is so stopped and comprising means for forcing the leading edge of the sheet backwardly with reference to the cylinder into a predetermined position for registering the same with reference to the cylinder, and means operable in timed relation to the rotation of the cylinder for operating first the preliminary register mechanism, and thereafter and after rotation of the cylinder through a predetermined angle operating the final register mechanism.

2,643,882
JET-PROPELLED TOY
Daniel C. Dozier, Norfolk, Va.
Application July 8, 1948, Serial No. 37,572
5 Claims. (Cl. 272—31)



1. A toy comprising a thimble, a yoke supported for rotation on a vertical axis and having arms connected to said thimble to support the latter for rocking movement on a horizontal axis, an arm connected at one end to said thimble perpendicular to said horizontal axis and extending radially outwardly of said thimble, a vehicle connected to the other end of said arm for movement over a supporting surface around a circle having its center at said vertical axis, a jet nozzle carried by said vehicle and adapted to discharge a fluid jet in a direction tangential to a circle having its center at said vertical axis, a source of pressure fluid carried by said thimble and communicating with said jet, and a single pin supporting said yoke for rotation on said vertical axis.

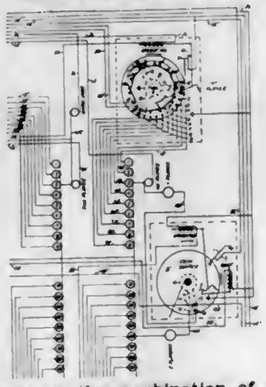
2,643,883
AIR-CONTROLLED SOLENOID GOLF TEE
Bart A. Hogeberg, Seattle, Wash.
Application October 16, 1950, Serial No. 190,411
7 Claims. (Cl. 273—33)



5. Automatic golf ball teeing apparatus comprising a tee element reciprocable between ball-teed and ball loading positions and having therein a normally open air orifice adapted to be closed by seating of a golf ball on such tee element, ball loading means cooperating with such tee element to deliver a golf ball to such element automatically in loading position thereof, pneumatic means connected to said tee element to blow air under positive pressure outward through such tee element orifice when open and to build up back pressure therein when closed, pressure-sensitive control means connected with said pneumatic means for actuation of such control means oppositely by corresponding reverse changes in pressure in said pneumatic means effected by seating and removal of golf balls upon and from said tee element, respectively, and tee element motivating means controlled by said control means to move said tee element from

ball-teed position to ball loading position in response to pressure decrease accompanying removal of a golf ball from said tee element, and reversely in response to pressure increase accompanying loading of a golf ball on said tee element by said loading means.

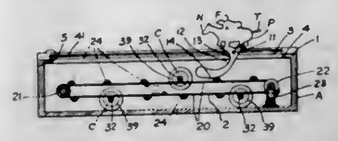
2,643,884
MINIATURE BOWLING ALLEY
Jerry C. Koci, Barrington, Ill., assignor to Chicago Coin Machine Co., Chicago, Ill., a corporation of Illinois
Application June 3, 1950, Serial No. 166,000
14 Claims. (Cl. 273—41)



1. In a game, the combination of a playing area in which movable game elements may travel, game element switches disposed in said area to be actuated by a game element, two separate complete player scoring systems including stepping switches, circuits and relays connecting said game element switches and scoring systems, a play-count stepping switch, connections between said game element switches and play-count stepping switch for stepping up the latter for a play unit, said play-count stepping switch having solo and dual play ranges respectively, manually controlled means for selecting the desired play-count switch range at the beginning of a game, additional relays, connections between said last named relays and said scoring systems for establishing operating circuits for one or other scoring system so that such scoring system will register the score made during a play unit and connections between the play-counting switch and said last named additional relays for maintaining said last named additional relays in solo position during a solo game with only one scoring system operating when a solo game has been selected by said manual means, and additional connections between the play-counting switch and said additional relays for moving said additional relays alternately from one position to another position during a dual game after each play unit so that one scoring system and then the other scoring system operates during successive play units.

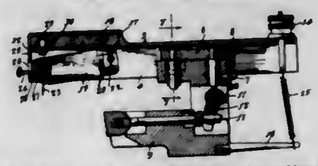
2,643,885
RACING APPARATUS
William C. Ford, Andover, Mass.
Application April 3, 1950, Serial No. 153,535
15 Claims. (Cl. 273—86)

12. In a figure racing apparatus having an upper member with elongated track slots, a lower member, co-extensive with said upper member, means for moving one member relative to the other in a closed path at least some of which path is in a plane parallel to said other member and a plurality of racing figures, each rockably and slidably mounted in a slot and having a single integral arm depending downwardly through said slot to rest on said lower member, the combination of means on said lower member for repeat-



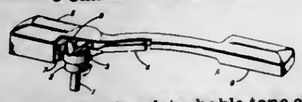
edly engaging the arms of said figures and rockably advancing each figure an equal amount in its slot and means on said lower member for repeatedly engaging the arms of said figures and rockably advancing each figure an unequal amount in its slot, said last named means including mechanism for continuously changing the amount of actuation imparted thereby to each figure with each circuit of the path of said moving member.

2,643,886
ARM FOR RECORDING AND REPRODUCING APPARATUS
Ulrich L. di Ghilini, deceased, late of Beverly Hills, Calif., by Alexander E. di Ghilini and Leo E. di Ghilini, administrators, Beverly Hills, Calif.
Application September 25, 1948, Serial No. 51,241
1 Claim. (Cl. 274—23)



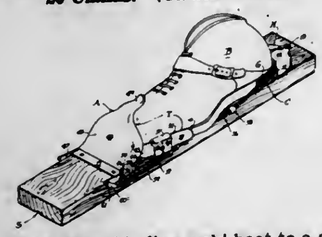
In a sound reproducing and recording apparatus, an arm having a pair of spaced apart upright side walls connected at one end by an upright end wall; means supporting said arm and limiting pivotal movement thereof to rotation about a horizontal axis; a recording and reproducing head having one end portion thereof disposed adjacent said end wall and being positioned between said side walls; means pivotally connecting said head directly to said side walls for free rotary movement relative thereto about a horizontal axis and for very slight horizontal movement relative to said arm limited by said side walls of said arm, there being a clearance of only a few thousandths of an inch between said head and said side walls to permit said slight horizontal movement of said head relative to said arm, said head having a vertical slot formed therein in the end adjacent said upright end wall, said slot being open at its lower end only; and a pin carried by said end wall, said pin being engageable with said slot through its lower open end for locating said head in predetermined transverse relation to said arm to insure a desired alignment of a stylus carried by said head with said arm so that the stylus upon initial engagement with a record for playback will engage with a groove rather than a land.

2,643,887
PHONOGRAPH TONE ARM
Lloyd J. Andres, Chicago, Ill., assignor, by mesne assignments, to United Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 18, 1950, Serial No. 180,291
3 Claims. (Cl. 274—23)



1. A self-positioning detachable tone arm comprising a rigid arm member, a paramagnetic support means normally pivoted for horizontal rotation, a pair of V-grooves oppositely disposed in the upper end of said support means, a permanently magnetized bearing having a linear contact edge secured in said arm member, said edge projecting downwardly and positioned transverse to said arm, said edge of said bearing adapted to rest by gravity and magnetic attraction in line contact on the apex of said V-grooves, whereby said arm is fulcrumed for vertical movement normal to said contact edge, and means secured to said support means and extending at least partially of the length of said detachable arm member having means located beneath said arm for limiting the downward pivotal movement thereof, said means secured to said support means having a part engageable with the permanently magnetized bearing for limiting the lateral movement of said permanently magnetized bearing in a direction in alignment with the apex of said V-grooves.

2,643,888
SKI BINDING
William H. Hargis, Jr., Salinas, Calif.
Application March 3, 1951, Serial No. 213,779
20 Claims. (Cl. 280—11.35)



4. A device for binding a ski boot to a ski blade comprising a pair of clamping jaws pivotally mounted on said ski blade for swinging movement parallel to the top surface thereof and toward and away from each other, a lever having trunnionlike arms straddling the ski blade, means for pivotally mounting said trunnionlike arms to said ski blade so that said lever will swing between a position forwardly against said ski blade and rearwardly overlying the toe portion of said ski boot, each said trunnionlike arm having a cam edge for engaging said clamping jaws for urging the latter into clamping engagement with the sole of said ski boot when said lever is disposed in its rearward position, and a yieldable heel cable having its bight portion engageable with the heel of said ski boot and its ends pivotally secured to said trunnionlike arms at a point to tauten said cable and effect an over center action to said trunnionlike arms relative to their pivotal mountings under the influence of said tautened cable for maintaining said lever in its rearward position.

2,643,889
SKI POLE RING
Finn Ronne, Chevy Chase, Md.
Application November 22, 1949, Serial No. 128,898
2 Claims. (Cl. 280—11.37)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A molded ski pole ring consisting of a metal-free, rigid annulus having a shallow annular channel on the underside with a narrow annular flat surface surrounding the channel, a circular edge bounding the narrow annular flat surface on the outside and acting as a cutting edge to give a gripping action on hard snow, a plurality of flat fins molded integrally with the annulus and each extending a very short distance inwardly thereof on its inner periphery, each fin having its bottom surface in the same plane as the bottom surfaces of the annulus and having a slot extending from top to bottom and adapted to receive a strap to secure the ring flexibly to a ski pole.

2,643,890
TANDEM TRAILER DEVICE
Otho Wayne Smith, Bedford, Ind.
Application April 19, 1950, Serial No. 156,783
3 Claims. (Cl. 280—33.05)



1. A device of the kind described comprising a frame having a pair of side members spaced apart to receive the end of a tractor frame inserted therebetween, a cross support fixed to said side members for engagement with a mount means carried by the tractor frame, said side members having a load support means disposed rearwardly of said mount, a vertical pivot member connecting said cross support to said mount, a pair of spring mounted supports dependably attached to said side members, an axle means attached to said mounts, and vertical guide members extending below said side members of the frame and spaced to each side of the tractor frame for engagement with either side thereof on the angle between said frame and the tractor exceeding a predetermined degree.

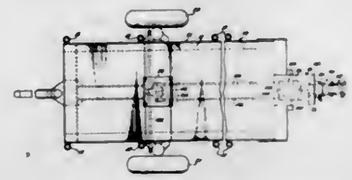
2,643,891
TRAILER HITCH STRUCTURE
William D. Mosley, El Paso, Tex.
Application January 25, 1952, Serial No. 268,199
2 Claims. (Cl. 280—33.9)

2. A hitch structure for connecting a trailer to an automobile comprising a longitudinal drawbar rigidly connected to the frame of the automobile, a ball member mounted on said drawbar, a tongue member pivoted to said drawbar beneath said ball member for horizontal rotation around the vertical axis of the ball member, bracket means hingedly secured to said tongue member for rotation around a horizontal transverse axis relative to said tongue member, a set screw threaded



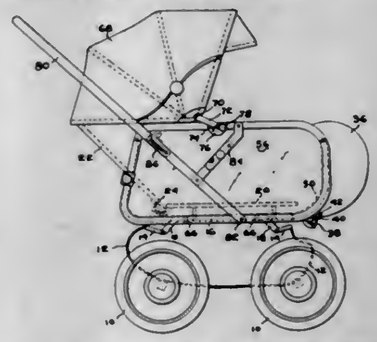
through said tongue member and being engageable with said bracket means, said set screw being arranged to elevate the tongue member relative to said bracket means, a transversely extending bar member adapted to be secured to the trailer drawbar, a cantilever spring connected to said bracket means and extending adjacent said bar member, and means pivotally connecting the end of said spring to said bar member.

2,643,892
TRAILER STEERING LINKAGE
James H. Fletcher, Wilmette, Ill., and James R. Fletcher, Huntington, W. Va., assignors to J. H. Fletcher and Co., Chicago, Ill., a corporation of Illinois
Application March 26, 1948, Serial No. 17,233
16 Claims. (Cl. 280—33.55)



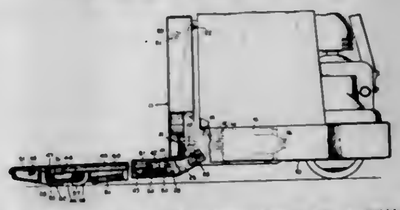
1. In a vehicle, a body having steerable wheel means, a steering control member rotatably secured on said body, linkage means between said steering control member and said steerable wheel means, said linkage means including a rotating driving member driven by said steering control member, a driven member rotatably mounted adjacent said driving member, one of said members having a generally radial slot therein and the other of said members having a projection engageable in said slot only throughout a predetermined substantially central range of angular movement of said driving member with respect to the longitudinal axis of the vehicle whereby said steerable wheel means is angularly shifted responsive to angular movement of said steering control member throughout said predetermined range, said driving member having a concentric surface portion, said driven member having a locking surface for engagement with said concentric surface when said driving member has been turned beyond said predetermined range, whereby said steerable wheel means is held at its maximum turned position irrespective of further angular movement of said steering control member beyond said range.

2,643,893
CONVERTIBLE FOLDING BABY CARRIAGE
William C. Troendle, Gardner, Mass., assignor to Thayer Company, Gardner, Mass., a corporation of Massachusetts
Application November 1, 1951, Serial No. 254,351
5 Claims. (Cl. 280—36)



1. A folding convertible carriage and stroller comprising a wheeled support, frame members thereon in substantially fixed relation thereto, a carriage body bottom member on the frame members, a pair of vertically swinging spaced levers at each side of the frame members, rigid carriage body sides, each mounted to swing on a pair of said levers, means latching the sides in the uppermost position thereof and cross braces connecting the carriage body sides and located below the carriage body bottom.

2,643,894
LINKAGE FOR LIFT TRUCKS
Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application September 4, 1948, Serial No. 47,860
15 Claims. (Cl. 280—44)



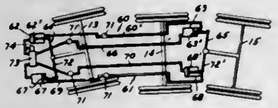
1. In a truck of the class described, a lifting head, an elevating platform, a link pivoted at one end to said lifting head, a connector, means pivoting the other end of said link to said connector, means mounting said connector for swinging movement with said elevating platform on said link relatively to said lifting head, coacting parts through which said connector adjusts itself on said mounting means relatively to said elevating platform and said pivot between said connector and said link, a rod pivoted to said link, said rod extending rearwardly from its pivot to the rear end of said elevating platform, a lifting wheel link pivoted relatively to the rear end of said elevating platform, and means of connection between said rod and lifting wheel link whereby movement of said rod contributes swinging lift movement to said lifting wheel link.

2,643,895

SWINGABLE AXLE STABILIZER SYSTEM FOR PARALLELING NATURAL STEERING FORCES

Ancil C. Stover, Van Wert, Ohio, assignor to William W. Eisenhauer, William P. Ellwood, Ida J. Eisenhauer, and Leigh E. Eisenhauer, copartners, doing business as The Eisenhauer Manufacturing Company, Van Wert, Ohio

Application October 3, 1949, Serial No. 119,222
2 Claims. (Cl. 280—81)



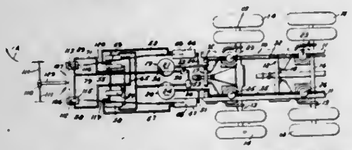
2. A vehicle having in combination a frame, means for supporting the frame including a pair of axles extending in a direction transverse to the frame and spaced from each other lengthwise of the frame, means respectively pivotally supporting the axles on the frame for turning movement relative to the frame about substantially vertically extending axes, said axes being spaced from the respective axles lengthwise of the frame to enable said axles to turn in appropriate directions and conform to a natural steering pattern established upon turning of the frame from a straight course of travel, the center of support established by said means for supporting the frame being midway between said axles, whereby said axles turn in opposite directions throughout substantially the same angular extent in conforming to a natural steering pattern, and a closed hydraulic displacement system interconnecting said axles so that turning movement of one axle in one direction imparts a turning movement to the other axle in the opposite direction throughout substantially the same angular distance of travel, said system having a pair of cylinders supported on the frame and having pistons respectively slidably supported in the cylinders, fluid conduits respectively connecting the cylinders at opposite sides of the pistons, whereby sliding movement of one piston in its cylinder imparts a sliding movement to the other piston by the displacement of hydraulic fluid, and connections between the pistons of each cylinder and the respective axles responsive to displacement of hydraulic fluid to cause a turning movement of the axles about their respective vertical axes in opposite directions and throughout substantially the same angular distance of travel.

2,643,896

SUSPENSION FOR ROAD VEHICLES

Ancil C. Stover, Van Wert, Ohio, assignor to William W. Eisenhauer, William P. Ellwood, Ida J. Eisenhauer, and Leigh E. Eisenhauer, copartners, doing business as The Eisenhauer Manufacturing Company, Van Wert, Ohio

Application November 14, 1949, Serial No. 127,072
5 Claims. (Cl. 280—112)



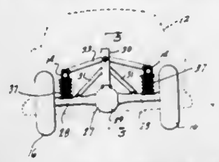
1. In a vehicle, a frame, an axle extending transversely of the frame, means supporting the frame on the axle permitting relative movement of the axle and frame toward and away from one another, said supporting means including fluid displacement devices respectively connecting opposite sides of the frame to the axle, each device comprising a cylinder member, a piston member slidably supported in the cylinder member and cooperating with the latter to provide a variable volume space in the cylinder member at one end of the piston member, means operatively connecting one member of each device to the frame, means for connecting the other member of each device to the axle, a pair of reservoirs containing a non-compressible fluid medium under a yielding pressure and respectively communicating with the variable volume spaces of the displacement devices at opposite sides of the vehicle, a pair of cylinders having pistons slidably supported therein and having the ends at one side of the pistons respectively communicating with said reservoirs, a third reservoir and a source of fluid under pressure, and means responsive to turning movement of the vehicle in either direction from a straight line course of travel to alternatively connect the third reservoir and source of fluid under pressure to the end portions of the pair of cylinders at the sides of the pistons opposite the sides aforesaid thereof.

2,643,897

MOTOR VEHICLE FRAME MOUNTING MEANS

Dale K. Chowning, Mountain View, Mo.

Application November 2, 1951, Serial No. 254,497
2 Claims. (Cl. 280—112)



1. In a vehicle, an under frame including a pair of longitudinal frame bars, a supporting frame structure including a pair of axle housings connected together by a differential housing and carrying a pair of drive wheels arranged transversely of and below said frame bars adjacent the rearward ends of the latter, an upstanding guide bar having the lower end connected to the midway portion of said differential housing for rocking movement about an axis transverse of said housing, a crossbar having each of its ends connected to the adjacent frame bar, the center of said crossbar being bowed upwardly and being above the center of gravity of said under frame, a pin extending transversely through and carried by the center of said crossbar and having one end slidably engaging said guide bar, and a cushioning spring disposed between and operatively connected to each axle housing and the adjacent frame bar.

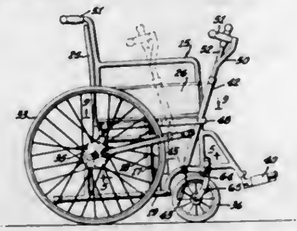
2,643,898

SELF-PROPELLED WHEEL CHAIR

Herbert A. Everest and Harry C. Jennings, Los Angeles, Calif.

Application June 25, 1948, Serial No. 35,198
5 Claims. (Cl. 280—240)

3. In a wheel chair, a traction wheel rotatably mounted upon a side frame of the chair, a caster wheel mounted upon said side frame, a propelling arm mounted for oscillation upon the side frame, means providing a driving connection between the propelling arm and the traction wheel whereby the traction wheel may be rotated by oscillating the propelling arm, a spline mounted for rotation within the propelling arm and oscillatable therewith, means connecting



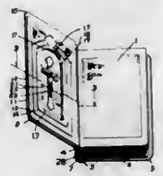
the spline to the caster wheel whereby upon rotation of the spline the caster wheel may be rotated to steer the wheel chair, and an extension telescopically connected to the propelling arm having a sliding but non-rotatable fit with the spline.

2,643,899

RECESSED BOOK COVER

John V. Cavalero, Bloomfield, N. J.

Application March 1, 1950, Serial No. 147,015
2 Claims. (Cl. 281—31)



1. In a book, a cover having its marginal edges disposed on a plane substantially above the inside portion of the cover within said marginal edges, a substantially flat lamina having a cut out center, and a member having a figure visible through said cut out center and having an embossed raised margin fixed at a predetermined distance from said figure substantially conforming to and lying under the overlying edges of said cut out center, one side of said embossed marginal edges being visible through said cut out center, said substantially flat lamina being secured to said marginal edges of said cover and to the binding of the book.

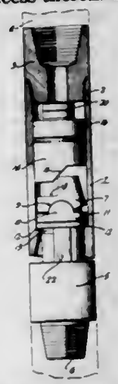
2,643,900

KNUCKLE JOINT

Emerson L. McBride, Bakersfield, Calif.

Application August 24, 1950, Serial No. 181,285
2 Claims. (Cl. 285—93)

1. A knuckle joint comprising a housing, a threaded box on the upper end of said housing, a sub tiltably mounted in the lower end of said housing, said sub projecting from the housing, a piston in the housing above the sub, a cam surface on the bottom of said piston, a shoulder on the sub engageable by the cam surface to tilt said sub, a trunnion ring removably mounted in the housing, a head on the sub, said head having arcuate bearing surfaces thereon engaging the trunnion ring to support the sub in the housing, a packing ring positioned under the trunnion ring and supporting said trunnion ring, said sub having an arcuate recess therein on one side thereof,



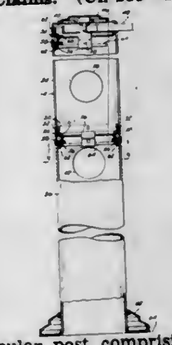
said packing extending into said recess in the tilted position of the sub.

2,643,901

CONNECTING MEANS FOR TUBULAR SECTIONS

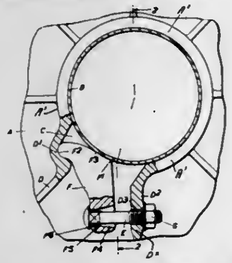
Harold M. Manoogian, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut

Application April 28, 1949, Serial No. 90,087
3 Claims. (Cl. 285—197)



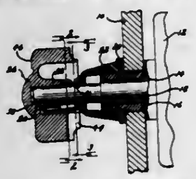
1. In a tubular post comprising two tubular straight wall sections of substantially equal diameter, means disposed interiorly of the post and adjustable from the exterior thereof for releasably securing the sections in end abutting relationship and with the sections in any rotated position relative to each other comprising an annular ring secured to the interior of one tubular section and having a portion extending axially therefrom adapted to be telescopically received in the abutting end of the other tubular section, said ring having an inwardly extending inclined shoulder converging toward the end of said one tubular member, a plurality of clamps spaced about the interior of the other tubular section adjacent its abutting end, each of said clamps having an inclined nose portion engageable with said shoulder when the sections are in end abutting relationship, means for retaining said clamps in axially aligned position, and screw means associated with each clamp extending through an opening in said other tubular section for moving the nose of the clamp radially of the post.

2,643,902
MANUFACTURE OF WARP AND OTHER FLANGED BEAMS
Stephen Stanworth, Burnley, England, assignor to Thomas Ashworth and Company Limited, Rosegrove, Burnley, England, a corporation of Great Britain
Application June 1, 1950, Serial No. 165,441
In Great Britain October 22, 1948
3 Claims. (Cl. 287—20)



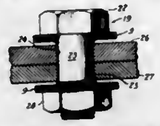
2. In a warp beam or the like for use in the textile industry and having at least one shiftable end flange, said end flange having a gap-defining pocket exposing a portion of said beam, said pocket having generally opposed walls, a device for clamping said beam flange to the beam barrel and comprising at least one lever as a separate element from the beam flange and beam barrel and located in said pocket, said lever having toe, heel and leg portions, one wall of said pocket having a hook form recess in which the lever toe engages, the heel portion of said lever being disposed in close opposition to the beam barrel, and clamp means carried by one of said pocket walls and engaging the leg portion of said lever and operable to actuate said lever leg toward said last mentioned pocket wall whereby to clamp said heel portion against said exposed portion of said beam barrel.

2,643,903
KNOB AND SHAFT CONNECTION
Edward Nathan, New York, N. Y., assignor to Lectra Products Co., New York, N. Y.
Application May 18, 1949, Serial No. 94,014
2 Claims. (Cl. 287—53)



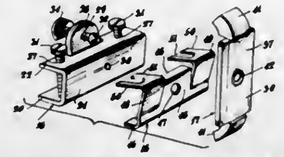
1. In a connection, a part including a slot and an axial recess provided with a flat side wall, a co-operating part comprising a shaft having a recess therein and a flat side face adapted to abut the flat side wall of said axial recess, and a fastener comprising a body portion in a substantially flat plane, a reversely bent portion extending beyond said body portion and bent at right angles to the plane of said body portion, the last named portion provided with an aperture, said fastener secured within said slot permitting a surface of said body portion to frictionally engage the flat side face of said shaft, and an edge of the aperture of said fastener adapted for engaging in the recess of said shaft.

2,643,904
SEALING ELEMENT
Oscar Y. Wehmanen, Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application February 14, 1947, Serial No. 728,471
1 Claim. (Cl. 288—20)



A composite sealing element for a bolt having a head portion and a shank portion, comprising a backing element having an opening passing centrally therethrough, with the wall defining said opening having a bevel formed therein, a gasket member comprising a body portion formed of resilient material coextensive in area to said backing element, and which body portion is bonded to one face of said backing element, said body portion having a circular opening therein of constant diameter throughout its height aligned with the opening in said backing element, and an integral bead formed on said body portion about the periphery of the opening therethrough and extending into the bevel in said backing element.

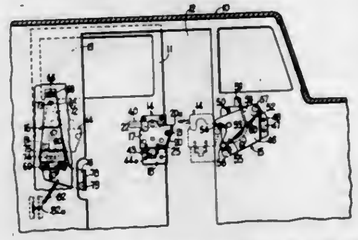
2,643,905
AUTOMOBILE DOOR SAFETY LOCK
Charles W. Hummer, Woodhaven, N. Y.
Application March 27, 1952, Serial No. 278,881
8 Claims. (Cl. 292—209)



1. An automobile door safety lock adapted for use on an automobile of the closed type having outwardly swinging doors and having a roof provided with projecting structure at the edge thereof adjacently above the doors, said lock comprising a body, means for securing said body to the projecting structure, a locking member pivotally mounted on said body having a pair of opposed arms one of which is adapted to be positioned over the upper edge of a door to prevent opening of the door, and a pair of spaced tabs providing a recess for receiving the other arm of said member when the first arm is in the aforementioned position and thereby serving to retain said arms in their respective positions.

2,643,906
DOOR LATCHING AND OPERATING MECHANISM
Glenn W. Way, Delaware, Ohio
Original application April 6, 1950, Serial No. 154,253. Divided and this application August 10, 1951, Serial No. 245,386
2 Claims. (Cl. 292—341.17)

2. A latch assembly for normally holding a door in open position but operable to start the door towards closed position comprising a base plate fastened in upright position to a support adjacent the path of movement of the door, a latch lever having its upper end pivoted to said plate, a door-closing handle on the lower end of said lever and extending in the direction in which the door moves towards closed position, said handle engaging a stop on said support when the door is moved into completely open position, a keeper-engaging anti-friction roller carried by said lever adjacent its forward edge intermediate its upper and lower ends, a door-closing anti-friction roller carried by said lever adjacent its



rear edge at a lower level than said first roller, a spring attached to said support and to said lever for normally holding said handle in engagement with said stop, said keeper-engaging roller engaging a retaining notch in a keeper carried by the door as the door moves into closed position to latch the door in such position, said door-closing roller engaging said keeper upon movement of said handle away from said stop to start the door towards closed position.

2,643,907
CULINARY UTENSIL
Johnie B. Thomas, Bamberg, S. C.
Application September 14, 1951, Serial No. 246,578
1 Claim. (Cl. 294—7)



In a cooking utensil, the combination of a longitudinally extensible body portion including a handle at one end and a food-supporting means at its other end, said body portion including a tubular body, an extension member telescoping therein, and means for clamping the extension member to the body in selected positions of telescopic adjustment thereof, said handle being mounted upon the tubular body and the food supporting means being mounted on said extension member; a longitudinally extensible slide mounted upon the body portion in parallelism therewith and having straight-line movement in opposite directions longitudinally of the body portion, the slide including a tubular member slidably mounted upon said tubular body exteriorly of the body, an extension arm telescoping within the tubular member, and means for clamping the extension arm to the tubular member in selected positions of telescopic adjustment thereof; a spring held under compression between the tubular member and the handle and normally biasing the slide in one direction away from the handle; and a jaw adapted at one end for coaction with the food-supporting means to grip an article of food therebetween, the jaw being pivoted near its other end upon the extension member of the body portion in close proximity to said means to swing about an axis related perpendicularly to the line of movement of the slide and having a pivotal connection at said other end of the jaw to the extension arm of the slide, for rocking of the jaw to an operative food-gripping position responsive to movement of the slide toward the handle against the action of the spring, and to a normal inoperative position in which it is in spaced relation to the food-supporting means, the jaw, in the normal inoperative position thereof, having that part of its length disposed between its pivot point and its food-gripping end positioned substantially flat against the extension member of the body portion at that side of the pivot point remote from the food-supporting means, said jaw swinging to its normal inoperative position responsive to movement of the slide away from the handle under the action of the spring, said slide being extensible to selected lengths independently of the body portion to pre-set the jaw at a selected inoperative position relative to the food-supporting means, the jaw being spaced a greater distance from the food-supporting means when disposed in its normal inoperative position, than in any of said selected inoperative positions thereof, withdrawal of the extension member from said body portion being effective to cause withdrawal of the extension arm from the tubular member of the slide, through the medium of the connection of the jaw to the extension member and extension arm respectively, whereby the body portion and slide may be extended simultaneously to adjust the utensil as to the overall length thereof.

2,643,908
TOOL FOR ADJUSTING ORTHODONTIA APPLIANCES
Willis H. Grinnell, Boston, Mass.
Application April 26, 1950, Serial No. 158,136
1 Claim. (Cl. 294—25)

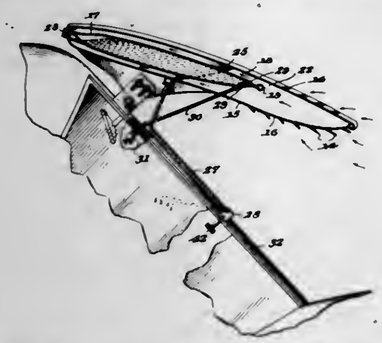


An instrument for use in adjusting an orthodontia appliance consisting of a length of metal wire whose major portion is bent retrorsely upon itself with its end united to said wire intermediate the ends thereof and with said major portion formed into a thimble-like body structure comprising two longitudinally spaced-apart transverse loops to embrace and underlie the finger of the user, and also comprising two oppositely disposed side loops to engage and overlie opposite side portions of the finger, the free end of the wire being extended longitudinally beyond said body structure to provide a stem for engagement with the orthodontia appliance.

2,643,909
COMBINED WINDSHIELD VISOR AND WASHER
Edwin E. Foster, Austin, Tex.
Application October 29, 1948, Serial No. 57,246
6 Claims. (Cl. 296—95)

1. A combination windshield visor and air cooler for automobiles and the like comprising a visor casing having an opening along the front edge thereof for entry of air and an opening at least one rear end of the visor to direct the air

entering the front opening from the interior of the visor and into the automobile, and at least



one fabric water reservoir in the visor casing in the path of the air stream.

2,643,910
TOP SHIELD FOR AUTOMOBILES
George Albert Lyon, Detroit, Mich.
Application October 22, 1949, Serial No. 122,992
8 Claims. (Cl. 296—95)



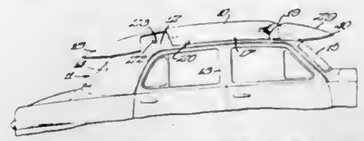
1. In a roof construction for an automobile having a body comprising front, side and rear windowed walls and a roof panel, a turtle-back-like shield constructed to protectively overhang said windowed walls, front and rear securing means adapted to be disposed between said roof panel and said shield to secure said shield in spaced relation to said roof panel, baffle means defined by said front securing means to baffle air from beneath said shield upwardly, and means defining an opening above and forwardly of the baffle means.

2,643,911
TOP SHIELD FOR VEHICLES
George Albert Lyon, Detroit, Mich.
Application October 22, 1949, Serial No. 122,993
4 Claims. (Cl. 296—95)



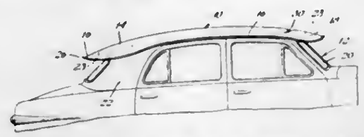
1. A vehicle top shield panel comprising a body panel, said panel having adjacent to but spaced rearwardly from the forward margin a pair of downwardly struck transversely elongated flanges attached to the panel along the rear margins defining the apertures resulting from the striking out of the flanges, the adjacent ends of the flanges being separated by a solid bridge between the apertures and defining an air space gap therebetween for movement of a limited volume of air rearwardly between the adjacent flange ends and under the panel while the flanges divert a substantial volume of air upwardly through said apertures in the forward movement of the panel with a vehicle top in service.

2,643,912
TOP SHIELD FOR VEHICLES
George Albert Lyon, Detroit, Mich.
Application November 5, 1949, Serial No. 125,691
8 Claims. (Cl. 296—95)



2. In a top shield for vehicles, a panel dimensioned to overlie a vehicle roof in spaced relation and having side and rear overhanging portions to serve as protective visors for the sides and rear of the vehicle, a forwardly projecting visor at the forward end of the panel for protecting the windshield of the vehicle, and a supporting bracket securing the forward end of the panel in position and also adjustably supporting the front visor.

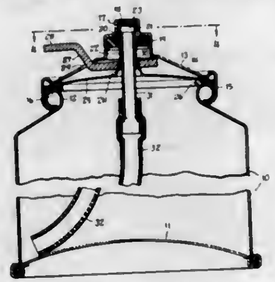
2,643,913
AUTOMOBILE ROOF CONSTRUCTION
George Albert Lyon, Detroit, Mich.
Application October 13, 1949, Serial No. 121,120
11 Claims. (Cl. 296—137)



3. In an automobile, a body comprising front, rear and side walls having windows, a top panel of generally turtle-back configuration having outwardly and downwardly sloping margins, upwardly and outwardly flanged portions on said body walls, means on said body wall flanges and said top panel margins providing a curled edge gutter for said top panel and securing said top panel to said side walls, said gutter sloping downwardly towards the front and rear portions of said top panel, and means at the front end of said top panel inwardly from said gutter providing an aperture adjacent and above the front wall of said body for the passage of air, and means spaced from said aperture for the drainage of liquids from said gutter at the lowermost portions of the gutter slope.

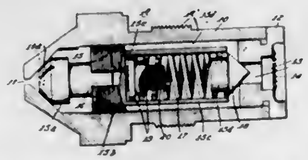
2,643,914
VALVE MEANS FOR AEROSOL SPRAY DISPENSERS
James B. Reswick, Newtonville, Mass., assignor to The Risdon Manufacturing Company, Naugatuck, Conn., a corporation of Connecticut
Application June 24, 1950, Serial No. 170,225
9 Claims. (Cl. 299—95)

1. In a dispenser having an end-closure and a nozzle, the combination including: a valve-seat in said end-closure; an apertured resilient gasket secured in said end-closure and spaced vertically below said valve-seat to form an expansion-chamber opposite said nozzle; a valve comprising a valve-nose having a passage therethrough, an apertured wall at one end thereof and an integral resilient diaphragm at its opposite end, said resilient diaphragm being arranged to support said valve in said dispenser and normally to hold the apertured end wall of said valve-nose on said valve-seat; feed-means



arranged to connect the passage of said valve-nose with the interior of said dispenser for delivering a liquid solution under pressure into the passage of said valve-nose; and means arranged to actuate said valve to move the apertured end wall of said valve-nose off of said valve-seat so as to release the solution under pressure within the passage of said valve-nose for dispersion into the atmosphere through the nozzle of said end-closure.

2,643,915
OIL BURNER NOZZLE
Bruno Pieroni, Bronx, N. Y.
Application June 27, 1951, Serial No. 233,769
1 Claim. (Cl. 299—118)



In a nozzle for use with liquids discharged under pressure, the combination of an external housing having a discharge aperture, an inlet port, a valve, a unitary internal structure threadably coupled to said external housing, said unitary internal structure having at one end a head portion adjacent the discharge aperture, a coupling portion, and an open ended stem of tubular cross section arranged adjacent said valve, said stem having therein a threaded stud abutting its rearward wall, a sleeve adjustably threaded upon said stud, a yielding member arranged between said sleeve and said valve, said sleeve being capable of endwise adjustment upon said stud with respect to said yielding member to exert pressure upon said yielding member of a predetermined and adjustable value, a passageway formed between the outer periphery of said stem and the inner periphery of said external housing and channels through said coupling portion and said head portion, said passageway and said channels providing a continuous and unobstructed path between said valve and said discharge aperture.

2,643,916
FUEL BURNER
Gerald A. White, Los Angeles, and Lewis W. Williamson, Wilmar, Calif., assignors to C. F. Braun & Co., Alhambra, Calif., a corporation of California
Application April 25, 1949, Serial No. 89,418
1 Claim. (Cl. 299—141)

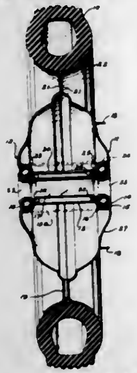


In a fuel burner, the combination of: a tubular member having an outwardly and forwardly extending flared circular lip at one end, said member having a central axial bore and an external cylindrical surface, the flared lip having a curved outer surface merging with said external cylindrical surface and a curved inner surface merging with said central axial bore, the said outer and inner surfaces on the flared lip tapering to a thin edge, said surfaces being substantially parallel adjacent said thin edge, an axially extending rod slidably mounted within said bore, an outwardly extending head at one end of the rod cooperating with said outer surface on the tubular member to define a first ring orifice to emit a forwardly extending cone of atomizing fluid, a shell mounted for axial sliding movement with respect to said tubular member, the shell having a central bore, one end of the shell being shaped to cooperate with said inner surface on the tubular member to define a second ring orifice to emit a forwardly extending cone of fuel intersecting the cone of atomizing fluid, and means for supplying a fuel to one of said bores and an atomizing fluid to the other, whereby atomization of the fuel by the atomizing fluid occurs on a full circle exteriorly of the lip between the forwardly extending intersecting cones of fuel and atomizing fluid.

2,643,917
WHEEL
Alvin P. Douglas, Cleveland, and Leonard J. Walters, Shaker Heights, Ohio, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1950, Serial No. 184,621
2 Claims. (Cl. 301—63)

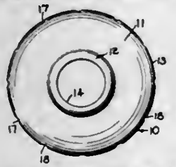
1. A wheel for juvenile vehicles and the like comprising a pair of similarly shaped, outwardly dished sheet metal side disks joined to each other on their inner sides adjacent rim formations thereon, each of said disks having a flat joining portion concentric to the wheel axis, a rim flange extending outwardly from the outer circumference of the said joining portion, an inwardly extended bearing socket formed in the center portion of the disk having a cylindrical side wall

and a centrally apertured shoulder, said shoulder being provided with an integrally formed inward cylindrical extension about the aperture of said shoulder, and a web connecting the said joining portion to said bearing socket, said disks being secured to each other along said joining portions; bearing means in each of said bearing socket formations, said bearing means each including an outer race and an inner race providing radial and thrust bearing surfaces with a plurality of



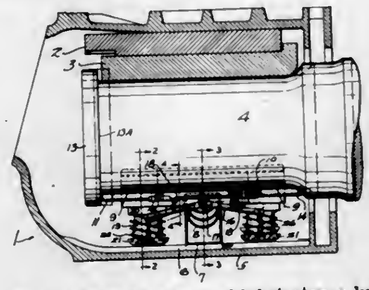
ball bearing elements therebetween, each said outer race being pressed into the corresponding bearing socket against the shoulder thereof; a tubular sleeve with ends disposed about the cylindrical extensions on said bearing socket formations of the disks and bearing outwardly against the bearing sockets in substantial alignment with the balls of the two bearings to hold the sockets in spaced relation; and an inner race retaining sleeve extending through said inner races to retain them in position.

2,643,918
DEVICE FOR ATTACHING HUBCAPS
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 16, 1949, Serial No. 99,422
6 Claims. (Cl. 301—108)



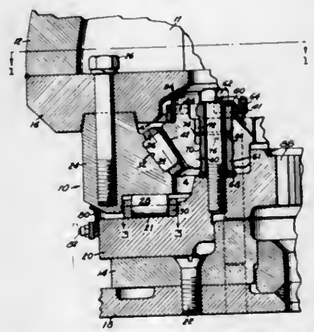
1. A hub cap adapted to be attached to the spokes of a wire wheel comprising a cup-shaped body portion adapted to cover the hub portion of a wheel, a concentric coaxial rim portion extending laterally from the outer edges of said cup-shaped portion and having a plurality of diagonally arranged notches therein providing a plurality of tongues on said outer edges of said cup-shaped portion, said notches having seats therein for receiving the spokes of a wire wheel, the side edges of said notches being inclined in the same general direction in relation to the axis of the hub cap, the side edges of each notch extending at an angle to each other from the seat of the notch to provide an enlarged entrance to the notch, the corresponding side edges of said notches being inclined at substantially the same angles with relation to the axis of the hub cap, whereby the hub cap may be mounted on the hub of a wire spoked wheel with the inclined flaring notches in the rim portion facilitating the application of the hub cap and the insertion of the tongues formed by said notches between the spokes and permitting the tongues to be curled over to engage the spokes of the wheel.

2,643,919
RAILWAY JOURNAL LUBRICATOR
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application October 9, 1950, Serial No. 189,231
15 Claims. (Cl. 308—84)



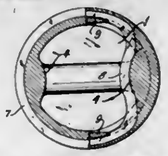
1. In a railway axle journal lubricator, a lubricant distributor arranged for application to the surface of a journal to be lubricated, a member movably mounted on said distributor, a pump comprising parts movable relative to each other to actuate the pump, one of which parts is secured to said distributor and the other of which is secured to said member, structure for supporting said distributor, and an operating element on the distributor arranged for engagement with the journal for moving said movable member on the distributor.

2,643,920
TURRET ROLLER BEARING
Stephen C. Olszewski, Detroit, Mich.
Application September 10, 1948, Serial No. 48,544
12 Claims. (Cl. 308—231)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Turret roller bearing structure for supporting a turret rotatably at its base and about its vertical axis on a base support, said structure comprising a base ring member on said base support, a turret ring member on said turret base above said base ring member, a locking ring member secured to said base ring member and radially inward of said turret ring member, a horizontal roller retainer with rollers therein between said base ring member and said turret ring member, and a tapered roller retainer with rollers therein inclined at an angle of about 30° to 40° from the vertical in extending upwardly and radially outwardly between said turret ring member and said locking ring member, each of said roller retainers comprising a plurality of adjoining sector portions each containing a plurality of unequally spaced rollers therein, said adjoining sector portions forming a ring with a gap therein.

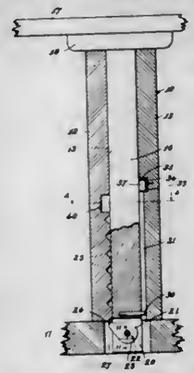
2,643,921
TRUNK PISTON
William M. Venner, Clayton, and Percy L. Bowser, Jr., University City, Mo.
Application December 12, 1947, Serial No. 791,186
3 Claims. (Cl. 309—13)



1. A piston of a light metal of a relatively high coefficient of thermal expansion, comprising, a head, a skirt depending from said head and provided with thrust faces one of which is separated from said head by a circumferential slot, provided with wrist pin bosses and with thrust ribs connecting said head and said bosses, and a control ring embodying parts extending circumferentially entirely along said thrust faces and anchored therein but only at the middles thereof and having parts extending along but entirely inside of said ribs and free thereof so as to be unaffected by expansion with the skirt along the wrist pin axis.

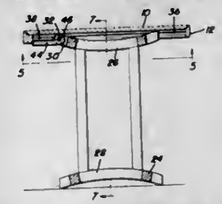
2,643,922
VERTICALLY ADJUSTABLE TABLE TOP
Edward G. Rudman, Nashua, N. H.
Application April 13, 1951, Serial No. 220,865
1 Claim. (Cl. 311—39)

A table comprising a pedestal and base, a top, a depending shaft fixed to said top and telescoping within said pedestal, said pedestal being provided on its inner face, with a vertical series of notches, an eccentrically weighted pawl pivotally mounted in the lower portion of said shaft and adapted to selectively engage said notches to support said top at the desired height, a tripping recess above the uppermost of said notches, a strike-pin projecting from said shaft, said pedestal having a vertical groove in which said pin travels, a spring clasp at the upper end of said groove and comprising a stop member and a pair of downwardly extending reversely curved arms located in the path of said strike-pin, said arms terminating in outwardly flared portions with the inner parts of said flared portions being spaced apart less distance than the diameter of said strike-pin whereby said arms provide appreciable yielding resistance to the upward movement of said top prior to the pawl reaching said tripping recess, and said spring arms being of



insufficient tension to support the weight of said top and shaft.

2,643,923
VERTICALLY ADJUSTABLE TABLE
Floyd E. Beall, Mount Shasta, Calif.
Application June 4, 1951, Serial No. 229,738
1 Claim. (Cl. 311—39)
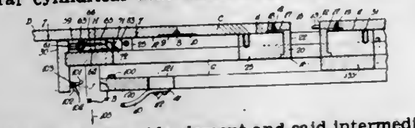


An adjustable table comprising a supporting frame, said frame including two longitudinally spaced parallel leg members, brace members maintaining said leg members in rigid spaced relation, said leg members being of less width than length, a rod journaled in opposed corners of said leg member, a table top, depending skirt boards secured adjacent the edges of said top, inwardly directed grooves in a pair of oppositely disposed skirt boards, a slat slidably mounted in said grooves, said slat being non-rotatable in said grooves, a pair of hinge members rigidly secured on said slat, said hinge members being journaled on said rods, extending corners on said leg members, said skirt boards transverse to said slotted skirt boards having recesses adapted to receive said extending corners.

2,643,924
MULTIPLE EXTENSION DROP-LEAF TABLE
Edmond Albano, New York, N. Y.
Application June 2, 1948, Serial No. 30,625
4 Claims. (Cl. 311—51)

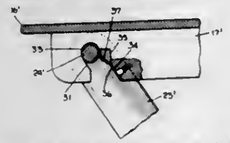
1. A multiple purpose table construction to serve either as a drop-leaf type table or to be rotated into position to serve as a sliding extension table comprising a basic table support structure, a slidably mounted intermediate structure on said support structure having two sliding assemblies which are designed to slide toward and

away from each other upon the support structure when the table is to be used as an extension table and a plurality of table-top leaf elements rotatably mounted on said slidably mounted intermediate structure, said elements each having a one-half section of a split vertical central cylindrical axle element and an eccentric



depending pin guide element and said intermediate structure having two separable sliding blocks one for each table top element, said blocks having central half-cylindrical recesses to receive said axle elements and form pivotal mounts for said table top elements and having outside arcuate slots to receive said depending pins.

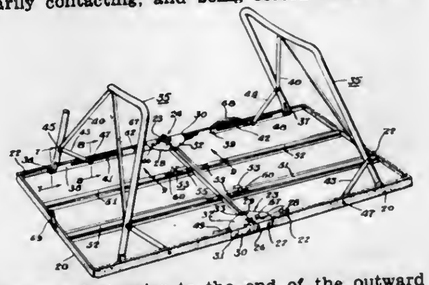
2,643,925
COLLAPSIBLE SERVICE TABLE ENSEMBLE
Harry Derman, Great Neck, N. Y.; Henrietta Derman, Sam Derman, and Sidney Derman, executors of said Harry Derman, deceased
Application December 29, 1950, Serial No. 203,365
1 Claim. (Cl. 311—83)



A collapsible table comprising a table top having reinforcing rails arranged in wide spaced parallel relationship to each other on the lower surface on the table top, a collapsible leg frame, said frame comprising two pairs of leg members, spaced alined means for pivoting the leg members together substantially centrally thereof, the upper end of one pair of leg members being pivotally mounted in connection with one end of said rails, the upper end portion of the other pair of leg members being joined and spaced by a cross-rod, the other end of said rails having opposed sockets of irregular cross-sectional form and each including a notch, a spring detent mounted wholly within each socket and having an offset portion movable into said notch, and said cross-rod being adapted to enter said opposed sockets and engage the offset of said springs, said offset yieldably retaining the cross-rod against displacement from said sockets when the table is in set-up condition.

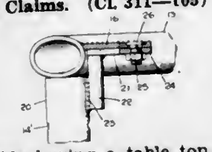
2,643,926
FOLDABLE TABLE WITH AUTOMATIC LOCKING MECHANISM
Joseph Pucci, Philadelphia, Pa., assignor to P. B. E. Manufacturing Co., Philadelphia, Pa., a partnership
Application October 25, 1951, Serial No. 253,099
5 Claims. (Cl. 311—90)

1. For use in a foldable table having a longitudinally shiftable elongated bracing-member for underlying and supporting a pair of hingedly-connected top sections; manually-releasable means for automatically locking said bracing-member in extended top-bracing position, said locking means comprising a vertically disposed stop mounted on the underside of one of the top sections adjoining the bracing-member, a locking member movably mounted on the bracing-member and provided with means normally urging it to locking position, said locking-member having a horizontally-disposed locking-shoulder normally disposed in a plane intersecting the plane of the stop, said locking-member momentarily contacting, and being forced inward by,



the stop just prior to the end of the outward longitudinal top-bracing movement of the bracing-member and thereafter springing outward to locking position with the locking-shoulder disposed behind the stop, and a manually-operable release-button mounted adjacent said stop and designed to force the locking-member inward and clear of the stop so as to permit top-freeing return movement of the bracing-member.

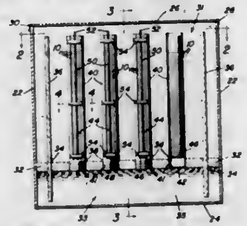
2,643,927
BRACKET COUPLING FOR KNOCKDOWN TABLE-TYPE FURNITURE
Charles P. Molla, New Hyde Park, N. Y., assignor to Molla Incorporated, Westbury, N. Y., a corporation of New York
Application December 29, 1950, Serial No. 203,328
4 Claims. (Cl. 311—105)



1. In a table having a table top frame with spaced corner portions and apertured brackets fixed in said corner portions, said brackets being spaced from upper and lower surfaces of the frame, leg members supporting said corner portions, each leg member having, at its upper end, a bracket comprising an apertured plate extending above and spaced from the upper end of the leg member, and a depending rod extending onto and fixedly secured to the inner surface of the leg member at said upper end.

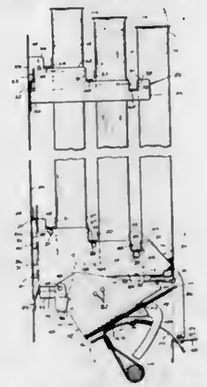
2,643,928
CONTAINER FOR HOLDING AND DISPERSING INCENDIARY ARTICLES WHICH CONTAIN PHOSPHOROUS
Maurice E. Barker, Washington, D. C.
Original application April 9, 1941, Serial No. 387,553, now Patent No. 2,558,726, dated July 3, 1951. Divided and this application February 1, 1951, Serial No. 211,204
1 Claim. (Cl. 312—31.01)
(Granted under Title 35, U. S. Code (1952), sec. 266)

A container for holding and dispensing incendiary articles containing phosphorus and which are stable in relatively moist air but spontaneously ignite in relatively dry air; said container being provided with a movable cover and having a horizontal partition separating said container into a plenum chamber adapted to serve as a water tank and an air chamber above said plenum chamber, said partition being threaded with a wick element extending both in-



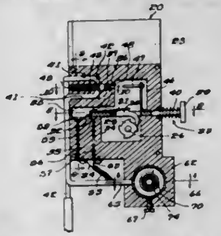
to the water tank and air chamber and being provided with an interiorly threaded recess portion threadly receiving an exteriorly threaded dispensing tube adapted to hold a stack of said articles, said tube being provided with a movable support for said stack to the end that articles in said stack may be raised one at a time, above the upper level of said tube.

2,643,929
DISPENSING DEVICE
Lincoln M. Keefe, Woodside, N. Y.
Application November 10, 1948, Serial No. 59,235
4 Claims. (Cl. 312—67)



1. In a dispensing machine having a stepped support, a plurality of article columns mounted on said support so that the lower end of each has a lateral exit on a different level from the others, aligned lateral slots in said support, a single ejector member carrying studs at one end thereof positioned in said slots, means to move said ejector member along a path defined by said slots beneath all said columns, a plurality of article engaging members rigidly secured to said ejector member in spaced relation to each other, the spacing between them being equal to the spacing of said columns, and spring means urging the other end of said ejector member upwardly to move a succeeding engaging member thereon to a position to engage and deliver articles from a succeeding column after the articles in the preceding one have become exhausted.

2,643,930
CIGARETTE LIGHTER
Walter S. Nissly, York, Pa.
Application March 28, 1950, Serial No. 152,446
1 Claim. (Cl. 312—84)

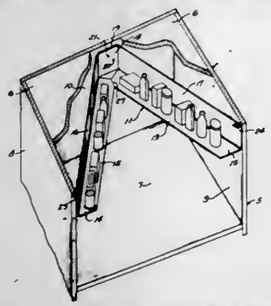


In a cigarette dispenser for an automobile, a housing including a front wall, a back wall, a top wall secured to the upper end of said back wall, and a pair of spaced parallel side walls, there being a compartment arranged in said housing for holding a plurality of cigarettes, a shaft extending between said side walls and rotatably supported thereby, a feeder roller mounted on said shaft for receiving cigarettes from said compartment, said feeder roller being provided with a plurality of spaced parallel longitudinally extending recesses, a casing arranged adjacent one side of said housing and secured thereto, there being a chamber arranged in said casing, a ratchet wheel mounted on an end of said shaft and positioned in said chamber, there being a channel arranged in said casing, a plate slidably arranged in said channel, a plunger arranged exteriorly of said casing and connected to said plate for causing sliding movement of the latter, a cam follower carried by said plate for engagement with said ratchet wheel, a spring for normally urging said plunger to its outermost position, a bracket projecting upwardly from said plate, a pin carried by said bracket, there being a groove arranged in said casing, said casing having a passageway extending therethrough and communicating with said groove, a valve slidably arranged in said groove and adapted to be actuated by said pin, said valve serving to selectively open and close said passageway upon actuation of said plunger, a conduit for connecting one end of said passageway to a vacuumatic source, an electrically operated lighter element supported by the lower end of said housing, an inclined partition for guiding a cigarette from the feeder roller toward said lighter element, a pair of spaced arms arranged on the lower end of said partition for supporting the cigarette during the lighting thereof, a body member arranged along the bottom of said casing, a hollow sleeve mounted in said body member, a piston reciprocably arranged in said sleeve, a line connecting said passageway to said sleeve for causing selective reciprocation of said piston upon movement of said valve by said plunger, and a block carried by said piston for urging an end of the cigarette into engagement with the lighter element upon depression of the plunger.

2,643,931
SHELF
Tilman R. Anderson, Viroqua, Wis.
Application July 29, 1949, Serial No. 107,472
1 Claim. (Cl. 312—351)

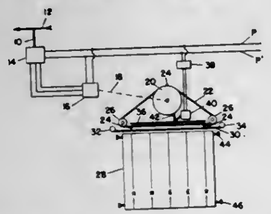
In combination, an auxiliary shelf, a kitchen cabinet or the like having conventional shelves and having a rear wall and having a front open-

ing, said auxiliary shelf being V-shaped in plan view and having an apex portion and having an open front opposite said apex portion and accessible for storage of articles from said front opening of the cabinet, said auxiliary shelf also having elongated rearwardly converging horizontal shelf portions each of a length and size to independently hold a row of articles and having an upright wall portion; and means for attaching the upright wall of said V-shaped auxiliary shelf to the



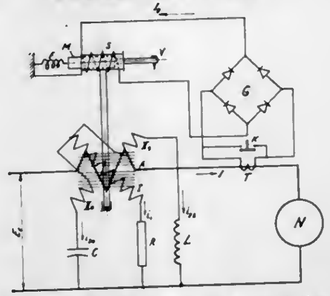
under side of one of said cabinet shelves and to the rear wall of said cabinet with the open front of said auxiliary shelf facing the forward edge of said cabinet shelf, said converging horizontal shelf portions providing a V-shaped space therebetween of substantial width and depth so that tall articles in the kitchen cabinet may project upwardly into said V-shaped space above the level of the horizontal shelf portions of the auxiliary shelf.

2,643,932
WIND DIRECTION RECORDER
Augustine F. S. Musante, Media, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application August 1, 1950, Serial No. 177,090
1 Claim. (Cl. 346—8)



A wind direction recording instrument which comprises, in combination, a weather vane mounted for rotation in response to the change in wind direction, an electric circuit, an electrically-controlled responsive device, within said electric circuit, to which the movement of the vane is transmitted, a second electrically-controlled responsive device within said electric circuit to which movement is transmitted by the first responsive device, a rotatable drum, a mechanical drive from the second responsive device to said drum, a chart and means to move the same longitudinally at a predetermined speed, the chart having inscribed thereon five parallel longitudinally extending lines of which the end lines have the same compass insignia and the other three lines the other three compass insignia, an inked ribbon located above and close to the record chart, a transversely extending presser bar located above the inked ribbon, idler pulleys above the opposite edges of the traveling record, an endless belt engaging said drum and the idler pulleys, one reach of which belt extends transversely between the inked ribbon and the presser bar and provided with three markers spaced apart longitudinally of the belt distances corresponding to the distance between the end lines of the chart, a timing device and a solenoid operable thereby, and within said electric circuit, adapted to periodically move said presser bar against said inked ribbon and thereby move the inked ribbon toward the traveling chart and thus cause a marker to impress a mark upon the traveling chart.

2,643,933
CIRCLE DIAGRAM RECORDER
Viktor A. Kinickij, Sao Paulo, Brazil
Application April 27, 1951, Serial No. 223,348
In Brazil March 28, 1951
8 Claims. (Cl. 346—29)



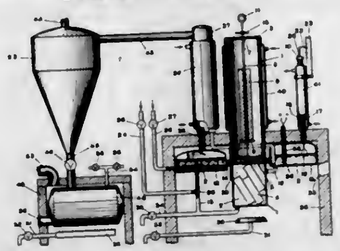
7. A device for recording on a card the circle diagram of an alternating current machine comprising, a pivotally mounted frame; means actuated by the voltage and current input to said machine for varying the angular position of said frame in accordance to the power-factor of said voltage and current; a plunger on said frame movable in a direction normal to the axis of the pivots thereof, a recording stylus on said plunger and engaging said card; and means for extending said plunger to an extent proportional to the instantaneous magnitude of current through said machine.

CHEMICAL

2,643,934
STABILIZED BLEACHED POLYACRYLONITRILE ARTICLES
Robert Albert Scheiderbauer, Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 23, 1949, Serial No. 134,861
11 Claims. (Cl. 8—108)

1. A process for stabilizing a polyacrylonitrile article against discoloration by light which comprises bleaching the said article with a bleaching agent containing available chlorine; impregnating the resultant bleached article with a phosphorous acid compound selected from the group consisting of hypophosphorous acid and organic phosphites; and heating the resultant impregnated article.

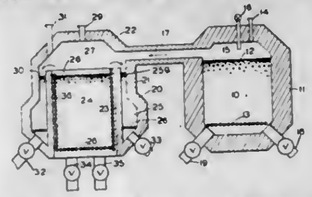
2,643,935
PROCESS FOR MAKING ALUMINUM OXIDE
Roy A. Halversen, Cleveland Heights, Ohio, assignor to Parker Halversen Company, Niles, Mich., a corporation of Michigan
Application April 1, 1948, Serial No. 18,342
1 Claim. (Cl. 23—141)



The method which includes: bubbling a stream of gas comprising water vapor through a liquid aluminum amalgam in a reaction zone at a temperature above about 100° centigrade to agitate the amalgam and cause the formation of aluminum oxide having an average particle size less than about 5 microns; sweeping the aluminum oxide from the reaction zone in the gas stream substantially as fast as it is formed; and subsequently separating the aluminum oxide in highly purified form from the gas stream.

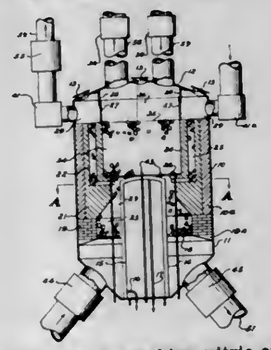
2,643,936
METHOD FOR MAKING NITRIC OXIDE
Robert D. Pike, Greenwich, Conn.
Application March 18, 1950, Serial No. 150,409
8 Claims. (Cl. 23—163)

1. In the process for making nitric oxide substantially free from gas of combustion from a gas containing nitrogen and oxygen, the steps of passing the said gas through a first bed of refractory particles maintained in a make zone at nitric oxide forming temperature and rapidly chilling said formed nitric oxide by continuing the flow through a second bed of refractory particles at a lower temperature located in a cooling zone in communication with but removed from said make zone, removing the nitric oxide containing gas, then reversing the flow, passing air through the second mentioned bed in excess of the requirements for the combustion of fuel in said first bed to cool the particles in said second bed, removing most of the surplus air before it enters the first mentioned bed, burning fuel with the balance



of said air in substantially theoretical quantity for its complete combustion in said first bed to maintain the temperature of the said first mentioned bed at nitric oxide forming level, while forming substantially no nitric oxide therein, passing the gas of combustion on through the particles in the said first bed and to the stack at reduced temperature.

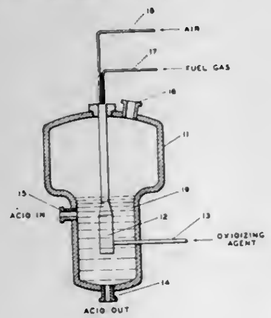
2,643,937
METHOD OF MAKING NITRIC OXIDE
Robert D. Pike, Greenwich, Conn.
Application November 19, 1947, Serial No. 786,972
13 Claims. (Cl. 23—163)



4. In the process for making nitric oxide from gas containing N_2 and O_2, the steps of passing the said gas through a main bed of refractory particles of substantially uniformly graded size previously heated to nitric oxide forming temperature and rapidly chilling said formed nitric oxide by continuing the flow through a continuation of said main bed at lower temperature, removing the nitric oxide containing gas, then reversing the flow, passing air in the excess of the requirements of combustion through said continuation of said main bed to cool the particles therein, removing air over the requirements for combustion before it enters the main bed of refractory particles, burning fuel with the balance of said air in said main bed of refractory particles in a ratio of fuel to air in which air is

present only in sufficient amount to insure complete combustion but insufficient to supply a concentration of free O_2 to make an apreciable concentration of nitric oxide, and passing the gas of combustion on through the particles in the furnace and out of the main bed at reduced temperature and substantially barren of nitric oxide.

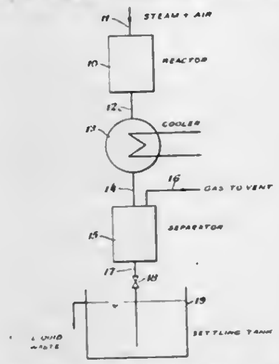
2,643,938
PURIFICATION OF SPENT SULFURIC ACID
Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 18, 1947, Serial No. 769,258
7 Claims. (Cl. 23—172)



1. An improved process for partially concentrating a sulfuric acid containing organic material, which comprises the steps of admixing hot combustion gases and an oxidizing agent at a temperature within the range of 1100° F. to 3000° F. so as to decompose said oxidizing agent to liberate nascent oxygen; immediately introducing said resulting admixture into said sulfuric acid, whereby organic material is oxidized by reaction with said nascent oxygen and a portion of the water content of said acid is vaporized; and removing said oxidized material and said water vapor from said acid.

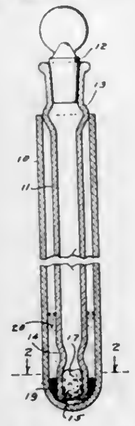
2,643,939
PROCESS FOR RECOVERY OF SULFUR FROM SULFUR-CONTAMINATED METALLIC CATALYSTS
Frederick William Bertram Porter and Roy Purdy Northcott, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application September 9, 1949, Serial No. 114,768
In Great Britain September 15, 1948
1 Claim. (Cl. 23—225)

A process for the recovery of sulphur from sulphur-contaminated metallic catalysts comprising regenerating the sulphur-contaminated catalyst in a regenerating zone at a temperature on the order of about 1100° F. in a current of steam and air to produce an effluent of a sulphurous steam and gas mixture, cooling said effluent leaving the regeneration zone by indirect heat exchange to a temperature of the order of about 60–80° F. to effect a reaction of sulphur dioxide and hydrogen sulphide to effect the formation of free sulphur, separating the gaseous products from the reaction mixture containing the free sulphur passing the reaction mixture into a body of water, allowing the sulphur to settle out, and decanting the water from the settled sulphur to



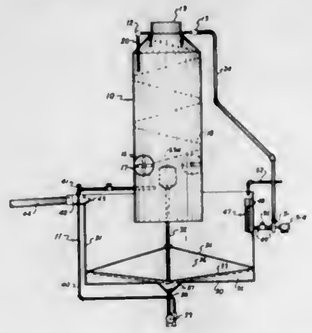
recover same in the form of finely divided particles.

2,643,940
EXTRACTOR FOR REMOVING SOLUBLE CONSTITUENTS IN CHEMICAL ANALYSIS
Rollin E. Stevens, Vienna, Va., assignor to the United States of America as represented by the Secretary of the Department of the Interior
Application September 14, 1951, Serial No. 246,699
3 Claims. (Cl. 23—259)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A thermally operated extractor which comprises a first tube, said first tube having a tapered ground stopper seat located in the upper end thereof, a stopper fitted in said seat to close the upper end of said first tube, an annular enlargement located below said stopper seat and proximate thereto, a porous filter held within the lower end of said first tube and occupying the entire area within said lower end, and a second tube disposed concentrically around said first tube, the lower end of said second tube being closed and the upper end of said second tube being open and in nongas-tight contact with said enlargement of said first tube, to maintain said tubes in coaxial relationship.

2,643,941
APPARATUS FOR CRYSTALLIZING CHEMICAL SALTS
Emory W. Douglass, Carlsbad, N. Mex., assignor to Potash Company of America, Denver, Colo., a corporation of Colorado
Application October 21, 1948, Serial No. 55,822
9 Claims. (Cl. 23—273)



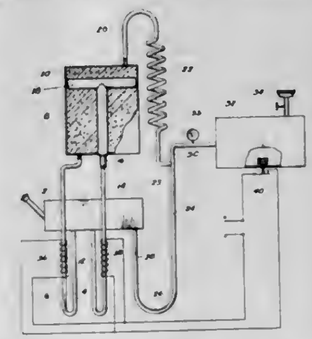
1. An atmospheric crystallizer cooling unit comprising an elongated, upright hollow cooling tower having an open top and open bottom, a plurality of spray heads mounted near the open top, a tangential air inlet in the tower near the open bottom, helical vanes secured to the inner surface of said tower for directing air in a spirally upward path through the tower, a vat below the tower and conduit means for recycling the material from the lower portion of the vat to the upper portion thereof at a level below the air inlet.

2,643,942
FUEL COMPOSITION CONTAINING N,N'-DIMETHYL PHENYLENE DIAMINE TO PREVENT KNOCKING
Maurice R. Barusch, Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 19, 1949, Serial No. 116,640
9 Claims. (Cl. 44—56)

1. A light-stable fuel comprising a major portion of hydrocarbons boiling in the gasoline boiling range, a minor portion above 0.1% of N,N'-dimethyl-p-phenylene diamine sufficient substantially to increase the octane rating of said hydrocarbons, and a minor portion of 2–10% of at least one material selected from the group consisting of alcohols containing 2 through 4 carbon atoms per molecule and ketones containing 3 through 8 carbon atoms per molecule sufficient substantially to prevent formation of haze from said phenylene diamine in said hydrocarbons upon exposure to daylight.

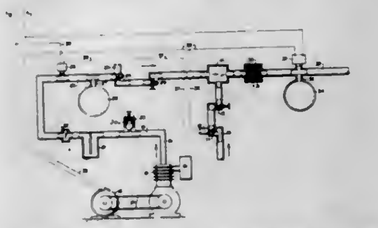
2,643,943
GAS GENERATOR FOR STOVES AND THE LIKE
Hugo de Andrade Só, Sao Paulo, Brazil
Application February 20, 1950, Serial No. 145,165
In Brazil June 14, 1949
2 Claims. (Cl. 48—103)

1. An apparatus for generating and storing permanent gas for use in gas burners from liquid petroleum fuel, comprising a catalytic chamber, a fuel tank positioned at a lower level than said chamber, a U-shaped pipe joining the bottoms of said fuel tank and said chamber, an electrical heating unit for heating the rising leg of said U-shaped pipe whereby vaporized fuel is fed to said chamber under the pressure of vaporization, a pipe return for conducting gas from the top of said chamber to the bottom of said fuel tank, a condenser in said pipe return mounted



above the fuel tank level, a gas tank at a higher elevation than said fuel tank, means for conducting gas produced in said chamber and passed through said condenser from said return pipe adjacent the lower end of said condenser to said gas tank, switch means responsive to the gas pressure in said gas tank, and means electrically connecting said switch means to said heating unit.

2,643,944
SYSTEM FOR MIXING VAPORIZED HYDROCARBONS WITH AIR
Joseph J. Malir, Jr., Denver, Colo.
Application February 8, 1951, Serial No. 210,011
1 Claim. (Cl. 48—180)



A hydrocarbon-air mixing system comprising: a mixing chamber adapted to receive a hydrocarbon vapor and air for mixing therein to produce a combustible mixture, a source of hydrocarbon vapor, a vapor supply conduit communicating the hydrocarbon vapor source with the mixing chamber, a normally closed electrically operated valve in the vapor supply conduit for controlling the flow of vapor therethrough, an air compressor, an electric motor operatively connected therewith, an air conduit communicating the delivery port of the air compressor with the mixing chamber, a normally closed electrically operated valve in the air conduit for controlling the flow of air therethrough, a normally open pressure operated switch in opera-

tive communication with the air conduit between the compressor and the electrically operated valve, a manually adjustable metering valve in the air conduit between the electrically operated valve and the mixing chamber, a manually adjustable metering valve in the vapor supply conduit between the first mentioned electrically operated valve and the mixing chamber, a combustible mixture discharge pipe in communication with the mixing chamber for conducting the mixture to a burner, a surge chamber in connection therewith, a pressure responsive switch in operative communication with the discharge pipe, arranged to close an electric circuit to the compressor motor when the pressure in the discharge pipe falls below a predetermined value, whereby the pressure in the air conduit will increase to a point where the pressure operated switch in communication therewith closes, said last named switch being connected in series with the electrically operated normally closed valves in the air supply conduit and the vapor supply conduit thereby permitting air and hydrocarbon vapor to flow to the mixing chamber in metered volumes thereby increasing the pressure in the discharge pipe to a point where the pressure operated switch in communication therewith opens and stops the compressor motor and deenergizes the electrically openable switches in the air supply and the vapor supply conduit which thereupon close and remain closed until the pressure in the discharge conduit falls sufficiently to permit the pressure controlled switch in communication therewith to close and begin another cycle.

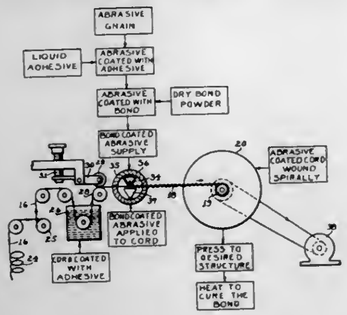
2,643,945

REINFORCED ABRASIVE ARTICLES AND METHOD OF MAKING THE SAME

Orello S. Buckner, Northboro, Mass., assignor to Bay State Abrasive Products Co., Westboro, Mass., a corporation of Massachusetts

Application May 12, 1949, Serial No. 92,878

8 Claims. (Cl. 51—297)



6. The method of making a grinding wheel comprising the steps of initially coating abrasive grains with a potentially reactive, heat hardenable organic bond, progressively coating a single, continuous, readily destructible, non-woven, reinforcing cord of high tensile strength with a heat settable, adherable, plastic, organic bonding cement that is compatible with said bond, progressively applying the coated grains to the cement on and around the cord, thereafter feeding at least one grain coated cord forward and winding it in a substantially spiral convolution without materially disturbing the grains on the cord and forming a porous wheel body, pressing the body axially to a required density and heating the body to thermoset the bond and cement and form an integral cord reinforced wheel structure.

2,643,946

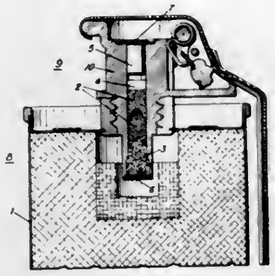
FIRST FIRE CHARGE COMPOSITION

Joseph H. McLain and Theodore A. Ruble, United States Army, assignors to the United States of America as represented by the Secretary of War

Application March 7, 1945, Serial No. 581,538

2 Claims. (Cl. 52—4)

(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A fire mixture to be ignited by a primer, which mixture comprises red lead 53.3±2%, silicon 33.7±2%, manganese 11.2±1% and Celluloid 1.8±0.2%.

2,643,947

SUPERSATURATED BORAX SOLUTIONS AND METHODS AND COMPOSITIONS FOR PRODUCING SAME

George A. Connell, Los Angeles, Calif., assignor to Borax Consolidated, Limited, London, England, a corporation of Great Britain and Northern Ireland

Application September 26, 1949, Serial No. 117,878

10 Claims. (Cl. 71—2.2)



1. A solid composition of matter comprising a mixture of sodium tetraborate and a substance selected from the class comprising boric acid, sodium pentaborate, sodium metaborate and sodium perborate, said composition being capable of dissolving directly in water to produce a solution appreciably supersaturated with respect to borax; the sodium tetraborate in the mixture containing between 0 and 5 mols, inclusive, of water of hydration per mol of tetraborate.

2,643,948

METHOD OF PRODUCING A FERTILIZER FROM PHOSPHATE ROCK

Maurice Sourdet, Paris, France, assignor to Societe d'Etudes Chimiques Pour l'Industrie et l'Agriculture, Paris, France, a corporation of France

No Drawing. Application March 24, 1950, Serial No. 151,803. In France March 28, 1949

4 Claims. (Cl. 71—46)

1. Method of treating natural phosphates for the production of phosphate fertilizers, which comprises heating the natural phosphate in a temperature range of 1100° C. to 1200° C. with an alkali metal salt to obtain a double calcium and alkali metal phosphate, hydrolyzing the said double phosphate to obtain a calcium phosphate fertilizer having high solubility in citric acid solutions, and a concentrated alkaline solution, and recovering the content of the alkali metal compound present in said alkaline solution.

2,643,949

METHOD FOR THE PRODUCTION OF IRON AND STEEL

Norman F. Tisdale and Norman F. Tisdale, Jr., Pittsburgh, Pa., assignors to Molybdenum Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application July 10, 1951, Serial No. 236,062

9 Claims. (Cl. 75—133)

1. A method for the production of iron and steel which comprises preparing an iron containing melt, adding metallics thereto during furnacing, deoxidizing, incorporating a composition containing a rare earth oxide, then pouring and quick freezing.

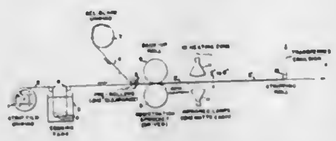
2,643,950

PROCESS OF TRANSFERRING AN IMAGE-BEARING GELATIN LAYER TO ANOTHER FILM BASE

Jacob Quentin Umberger, Holmdel, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application January 18, 1950, Serial No. 139,277

10 Claims. (Cl. 95—2)



7. A process which comprises exposing to a multicolor scene a perforated motion picture stripping film having an outer light-sensitive gelatin silver halide emulsion layer releasably joined by means of a water-soluble adhesive to a layer on the film, giving the film a flash exposure to light along the perforated edges of the film, developing, fixing, washing and drying said film, soaking the processed film in an aqueous bath, pressing the web surface of said outer layer into registration contact with the gelatin surface of a similarly perforated blank film, heating the combined films with infrared rays to blend the adherent gelatin surfaces, and stripping the gelatin blank film with its adherent silver-image-bearing layer from the remainder of the stripping film.

2,643,951

RICE PROCESS

Mattison W. Alderman, William F. Massmann, Jr., and Elmer W. Michael, Battle Creek, Mich., assignors to General Foods Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 26, 1950, Serial No. 158,339

7 Claims. (Cl. 99—81)

1. The process of treating rice which comprises cooking the same in the presence of moisture, drying the cooked rice to a moisture content within the range of about 10–14%, compressing the individual rice kernels and pieces thereof while the temperature of said kernels and pieces is within the range of about 140°–210° F., and thereafter subjecting the same to a high temperature whereby they are puffed.

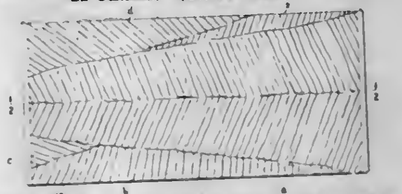
2,643,952

METHOD OF PREPARING FISH FILLET BLOCKS

Harold E. Crowther, Watertown, and Lawrence T. Hopkinson, Newton, Mass., assignors to The Atlantic Coast Fisheries Company, Boston, Mass., a corporation of Maine

Application October 5, 1948, Serial No. 52,862

11 Claims. (Cl. 99—195)



1. The method of making a block of fish flesh, which comprises assembling pieces of fish fillets in flat condition, overlapping in parts, between confining walls at two opposite sides, without confinement at intermediate sides to a depth slightly greater than the height of such walls, applying pressure to the accumulation of pieces in a manner to displace some of the pieces, and freezing such accumulation.

2,643,953

PROCESS OF MAKING ADHESIVE FROM LIGNOCELLULOSE

William Schoen, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

No Drawing. Application July 1, 1949, Serial No. 102,715

8 Claims. (Cl. 106—163)

1. A process of preparing an improved non-caking water-soluble adhesive mixture comprising hydrolyzing lignocellulose materials under high temperature and pressure in the presence of moisture; recovering the water-soluble extract, concentrating said extract substantially to dryness by removing water therefrom, forming a slurry of said reaction product with methanol, removing by mechanical manipulation substantially all of the methanol from the resulting slurry, washing the residue with a substantially anhydrous aliphatic solvent containing no other element than carbon, hydrogen, oxygen, and a halogen and having a boiling point within the range of about 25° C.–100° C., removing the wash solvent from said residue; and finally drying the resulting residue.

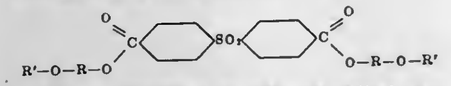
2,643,954

ALKOXYALKYL ESTERS OF BIS (4-CARBOXYPHENYL) SULFONE AND CELLULOSE ESTERS PLASTICIZED THEREWITH

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

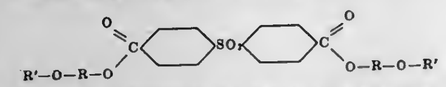
No Drawing. Application December 21, 1949, Serial No. 134,338
13 Claims. (Cl. 106—179)

1. Alkoxyalkyl esters of bis (4-carboxyphenyl) sulfones having the general formula:



wherein R represents an alkylene radical containing from 2 to 4 carbon atoms and R′ represents an alkyl radical containing from 1 to 6 carbon atoms.

6. A plastic composition comprising a lower alkanoic acid ester of cellulose plasticized with from 15 to 60 per cent by weight thereof of an alkoxyalkyl ester of bis (4-carboxyphenyl) sulfone having the general formula:



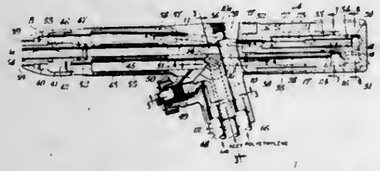
wherein R represents an alkylene radical containing from 2 to 4 carbon atoms and R′ represents an alkyl radical containing from 1 to 6 carbon atoms.

2,643,955

METHOD OF AND APPARATUS FOR FLAME SPRAYING POLYETHYLENE AND OTHER PLASTICS

John B. Powers, Newark, and Robert E. Bludeau, Denville, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application August 26, 1950, Serial No. 181,666
16 Claims. (Cl. 117—21)



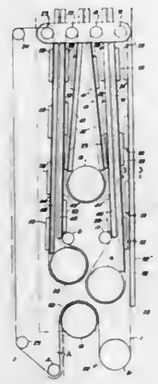
1. In a process of spraying from a gun upon a foundation a thermoplastic material having a softening temperature at least as much as 50° F. below its decomposition temperature, said process comprising burning a premixed fuel and oxidizing gas directed at said foundation and giving substantially as hot a flame as a premixed one of oxy-acetylene, and ejecting said thermoplastic material also toward said foundation but at a location spaced from the burning fuel, the combination therewith of the improvement for reducing the danger of overheating said thermoplastic, said improvement comprising ejecting a stream of non-combustible cooling gas between the stream of thermoplastic material and the burning fuel stream until combustion of the fuel is substantially complete, said cooling gas completely separating the ejected stream of thermoplastic material from said flame and shielding said thermoplastic material from the heat of the burning flame for a substantial distance in the portion of the flight of the material during which combustion of the fuel is largely taking place and then mixing the material stream, and the products of combustion.

2,643,956

COATING METHOD AND APPARATUS FOR LUMINESCENT TUBES

Arthur G. Kuebler and John B. Hollopetre, South Euclid, Ohio, assignors to General Electric Company, a corporation of New York

Application March 1, 1950, Serial No. 146,962
8 Claims. (Cl. 117—33.5)



3. The method of forming a coating of powdered luminescent material on the interior surface of an elongated glass tube having both ends open which method comprises, depositing on the interior surface of the tube a coating of a suspension of the luminescent material in a liquid suspension medium comprising a readily vaporizable solvent, positioning the coated tube in a vertically extending position in a narrow confined space at least co-extensive with said tube to drain the excess coating suspension from the tube, and then simultaneously passing a stream of heated air downwardly through the vertically positioned tube and downwardly along and parallel to its outer side through said confined space while maintaining the velocity of the said heated air adjacent the outer side of the tube at a substantially constant velocity throughout the length of the tube so as to contact the outer surface of the tube along substantially its full length and completely therearound to heat the tube to progressively decreasing temperature from the top down and to substantially uniform temperature therearound both inside and out.

2,643,957

PROCESS OF PRESERVING WOOD

Ralph M. Lindgren, New Orleans, La.

No Drawing. Application August 7, 1951, Serial No. 240,776
9 Claims. (Cl. 117—57)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process of preserving wood comprising culturing *Trichoderma viride* on green wood which has had an inorganic fluoride applied to the surface thereof, whereby the permeability of the wood is increased, and impregnating the resulting wood with a liquid wood preservative.

2,643,958

TEXTILE PRINTING PASTE AND METHOD OF COATING THEREWITH

Helmut Kleiner, Opladen, Otto Bayer, Leverkusen-Bayerwerk, and Benno Becht, Leverkusen-Wiesdorf, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany

No Drawing. Application September 22, 1949, Serial No. 117,262. In Germany August 3, 1949
13 Claims. (Cl. 117—63)

3. A textile printing paste comprising a pigment, a thickening agent, an aqueous solution of a salt formed from an acid and a basic polymer of an ester of an unsaturated aliphatic acid, the basic radicals in said polymer being selected from the group consisting of primary and secondary amino groups, and a polyfunctional compound selected from the group consisting of isocyanate addition products capable of setting free a polyisocyanate upon heating and hexahydro-1.3.5-triacrylyl-s-triazine, said basic radicals being the groups in said resinous polyamine primarily capable of reacting with the polyfunctional compound.

12. The process of decorating textiles, which comprises applying to said textiles a printing paste as claimed in claim 3, and then rinsing said said textiles in an aqueous solution of alkali to remove the acid constitutent from the polymer salt contained in said paste.

2,643,959

PROCESS FOR THE PROTECTIVE TREATMENT OF IRON

Johannes Fischer, Berlin-Siemensstadt, Germany, assignor to Manufacturers Chemical Corporation, New York, N. Y., a corporation of New York

No Drawing. Application May 29, 1950, Serial No. 165,109
5 Claims. (Cl. 117—65)

1. A process for the protective treatment of iron, comprising causing iron to react at 700° to 1000° C. with an anhydrous gaseous medium consisting of hydrogen and aluminum chloride and obtained by the reaction, at 300° to 600° C., of anhydrous HCl gas and a mixture of aluminum, aluminum oxide, and coal, until a coating of aluminum is deposited on the surface of the iron treated.

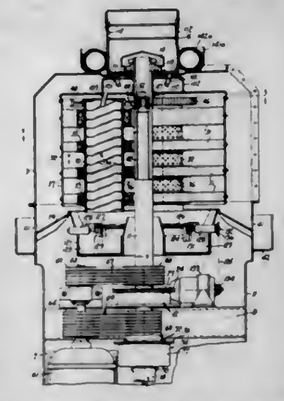
2,643,960

CENTRIFUGING MASSECUITE

Simes T. Hoyt, Honolulu, Territory of Hawaii, assignor to Castle & Cooke, Limited, a corporation of the Territory of Hawaii

Original application December 14, 1948, Serial No. 65,093. Divided and this application May 25, 1951, Serial No. 228,252
4 Claims. (Cl. 127—56)

4. A process for separating sugar crystals from mother liquor wherein said mother liquor contains sugar crystals supersaturated with sugar, comprising electrically heating the mother liquor substantially instantaneously to a temperature of about 150° F. to produce a mother liquor containing sugar crystals and having a dissolved sugar content substantially below saturation, and immediately continuously subjecting a stream of the mixture of sugar crystals and heated mother liquor to centrifugal force of sufficient magnitude to separate the mother liquor from the crystals, in a centrifugal zone having apertures of such size as to permit ejection of the mother liquor



but with retention of the crystals, the separation of the crystals from the mother liquor being completed within one minute of said heating.

2,643,961

CLEANING CUPREOUS ARTICLES

Clermont J. Snyder and Willis G. MacLelland, Hastings on Hudson, N. Y., assignors to Anaconda Wire and Cable Company, a corporation of Delaware

No Drawing. Application May 22, 1948, Serial No. 28,747
8 Claims. (Cl. 134—17)

1. In a process for removing scale from a cupreous article involving heating the article in a halogen-bearing atmosphere and subsequently cooling the article, whereby the scale separates readily therefrom, the improvement which comprises introducing the halogen into the atmosphere in which the cupreous article is heated by heating a substance of the class consisting of chlorinated, brominated and iodinated organic compounds to above its decomposition temperature and introducing the gaseous decomposition products thereof into said atmosphere.

2,643,962

TREATMENT OF ELECTRIC APPARATUS INTENDED TO CONTAIN OIL

John Harry Osvald Lindhe, Nynashamn, Sweden, assignor to A. Johnson & Co., Stockholm, Sweden, a body corporate of Sweden

No Drawing. Application April 16, 1951, Serial No. 221,337. In Sweden April 17, 1950
4 Claims. (Cl. 148—6.17)

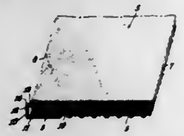
4. A process of preventing sludge formation and oxidation of the oil in transformers, which comprises treating the metal parts of a transformer, which come into contact with the transformer oil, with a mineral oil containing dissolved therein a small amount of a metal dithiophosphate, selected from a class consisting of barium, zinc and calcium dithiophosphates, under conditions causing the formation of a phosphorus-containing compound on the metal parts, removing the dithiophosphate-containing oil and replacing it with transformer oil free from dithiophosphates.

2,643,963

CARPET RUG BINDER

Torkel Jaasund, Brooklyn, N. Y., assignor to General Carpet Supply Co. Inc., New York, N. Y., a corporation of New York

Application October 16, 1951, Serial No. 251,538
8 Claims. (Cl. 154—49)



7. A rug carpet binder for binding the edge or end of a carpet comprising an elongated flexible metal strip interrupted along its length by alternately disposed opposite slots to permit it to be rolled with the carpet, a series of hooks along one edge of the strip and in angular relationship thereto, a plurality of lugs spaced along the opposite edge thereof and in angular relationship thereto, said lugs being provided with a series of inwardly extending binding teeth at their upper edges, and a fabric strip covering the binder and retained thereon by said hooks and binding teeth, said lugs being adapted to be bent over on said carpet at the edge thereof so as to retain the carpet warps in place and prevent unraveling.

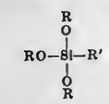
2,643,964

METHOD FOR IMPROVING THE ADHESION OF ORGANOPOLYSILOXANES TO SOLID SURFACES

Robert Smith-Johannsen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application October 14, 1950, Serial No. 190,241
32 Claims. (Cl. 154—139)

1. The process for improving the adhesion to a solid surface of an organopolysiloxane convertible to the solid, elastic state and containing less than 0.2 mol per cent copolymerized mono-organosiloxane, which process comprises treating the said surface with a composition comprising an organosilicate corresponding to the general formula:



where R is a member selected from the class consisting of alkyl groups and halogen-substituted alkyl groups, and R′ is a member selected from the class consisting of alkyl, aryl, aralkyl, alkaryl, alkoxy, aryloxy groups, and halogenated derivatives of the aforesaid alkyl, aryl, aralkyl, arkaryl, alkoxy and aryloxy groups, and thereafter applying the aforesaid organopolysiloxane to the surface and heat-treating the latter until a solid, elastic product is obtained.

20. An article of manufacture comprising (1) a glass surface primed with a hydrolyzed composition comprising (*a*) ethyl orthosilicate and (*b*) a small amount of an anhydrous iron halide, and (2) an adherent layer comprising a solid, elastic methylpolysiloxane containing less than 0.2 mol per cent copolymerized monomethylsiloxane bonded firmly to the primed glass surface.

2,643,965

NEW CHEMICALS AND FUNGICIDAL COMPOSITIONS CONTAINING SAME

George E. O'Brien, New Haven, Adelaide Bornmann, Bethany, and Allen E. Smith, Oxford, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 2, 1951, Serial No. 254,632
11 Claims. (Cl. 167—30)

1. A chemical selected from the group consisting of N-(p-chlorophenyl)-o-nitrobenzamide and N-methyl, N-(p-chlorophenyl)-o-nitrobenzamide.

2,643,966

VESICANT COMPOSITION FOR AND METHOD OF RENDERING WATER HAZARDOUS

James Edward Mills, Edgewood, Md., assignor to the United States of America as represented by the Secretary of War

No Drawing. Application January 16, 1925, Serial No. 3,111
19 Claims. (Cl. 167—47)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a composition for rendering a body of water hazardous for passage therethru, a dispersion of a vesicant material in an oil, said material being capable of dispersing in gaseous condition to provide a gaseous layer overlying the body of water.

10. In a process of rendering a body of water hazardous for passage therethru, placing on said surface a vesicant material, said material being capable of dispersing in gaseous condition to provide a gaseous layer overlying the body of water.

2,643,967

CONCENTRATE OF TYROTHRICIN AND ITS THERAPEUTICALLY ACTIVE COMPONENTS

Julius Pfannmuller, North Plainfield, N. J., assignor to Wallerstein Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application August 31, 1946, Serial No. 694,407
2 Claims. (Cl. 167—65)

1. A clear, essentially aqueous antibiotic concentrate comprising an antibiotic selected from the class consisting of tyrothricin and one of its therapeutically active components and as a solubilizer therefor a water-soluble salt of a pyridinium quaternary compound having one long chain aliphatic group containing a long chain alkyl group attached directly to the pyridinium nitrogen atom; said concentrate yielding on dilution with an aqueous solvent a clear, stable solution containing the antibiotic in a concentration greater than its solubility in an otherwise identical solution not containing the solubilizer, said concentration being sufficient to manifest antibiotic activity.

2,643,968

RECOVERY OF VITAMIN B_{12} WITH MONOHALOPHENOLS

Jerry Robert Daniel McCormick, Pearl River, N. Y., and Siegfried Arthur Muller, Dumont, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 16, 1951, Serial No. 211,444
7 Claims. (Cl. 167—81)

1. The method which comprises the step of bringing into interfacial contact an aqueous solution containing vitamin B12 and a water insoluble mono-halophenol having a melting point below 100° C., separating the phenolic phase containing the vitamin from the aqueous phase and thereafter recovering vitamin B12 from the said mono-halophenol phase.

2,643,969

DIAPER

Thomas J. Mahon, Long Island City, N. Y., assignor to Homemakers' Products Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 17, 1947, Serial No. 742,195
1 Claim. (Cl. 167—84)

A diaper adapted for combating ammonia dermatitis having para di-isobutyl cresoxy ethoxy ethyl dimethyl benzyl ammonium chloride impregnated therein to inhibit the growth of *B. ammoniagenes*.

2,643,970

PROCESS FOR PRODUCTION OF 17α-HYDROXYCORTICOSTERONE BY TISSUE OXIDATION OF 17α HYDROXYPROGESTERONE

Alejandro Zaffaroni, Rochester, N. Y., assignor to Syntex S. A., Mexico City, Mexico, a corporation of Mexico

No Drawing. Application July 6, 1951, Serial No. 235,559
4 Claims. (Cl. 195—51)

1. A process for the production of 17α-hydroxycorticosterone comprising dissolving the corresponding 17α-hydroxyprogesterone in propylene glycol, adding the solution of 17α-hydroxyprogesterone to an incubation mixture of fresh, finely divided animal adrenal tissue in a physiological saline solution containing potassium and magnesium ions and a buffer capable of maintaining a pH of from 6.8 to 7.8 and a salt selected from the class consisting of alkali metal fumarates and citrates, and incubating under agitation at a temperature of between 5 and 45° C. for at least one-half hour, the adrenal tissue being present in an amount equal to from one part of tissue to 1 to 5 parts by volume of buffer solution, the 17α-hydroxyprogesterone being present in an amount approximately equal to one part of compound to 1000 parts of tissue, and the alkali metal salt being present in an amount equal to at least 2½ mols to each 200 parts by weight of the buffer solution.

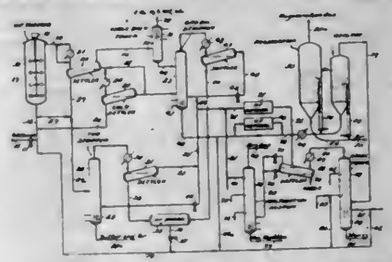
2,643,971

COMBINATION HF TREATING CATALYTIC CRACKING PROCESS

Arthur P. Lien, Hammond, Ind., and Bernard L. Evering, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 14, 1950, Serial No. 168,112
6 Claims. (Cl. 196—14.11)

1. The method of obtaining valuable products from a hydrocarbon charging stock which is higher boiling than gasoline and which contains substantial amounts of polycyclic aromatics which are insoluble in hydrogen fluoride but which are condensable in the presence of hydrogen fluoride into higher molecular weight hydrogen fluoride-soluble hydrocarbons with liberation of hydrogen, which method comprises treating said charging stock with a catalyst consisting essentially of hydrogen fluoride in a first conversion zone at a temperature above 150° F. but not substantially above 400° F. under conditions for effecting intermolecular chemical condensation of said polycyclic aromatic hydrocarbons into hydrogen fluoride-soluble condensed aromatics of higher molecular weight with simultaneous liberation of hydrogen, separating the condensed polycyclic aromatics and the hydrogen fluoride in which they are dissolved from hydrogen fluoride-insoluble hydrocarbons consisting essentially of a gas oil having a substantially reduced content of condensable aromatics, subsequently contacting said gas oil with a solid siliceous cracking catalyst under catalytic cracking conditions for converting said gas oil into hydrocarbons of the gasoline boiling range.

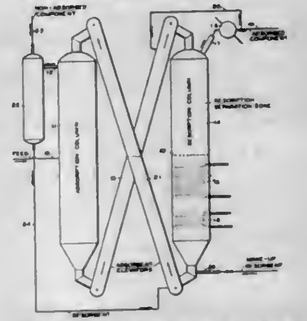


2,643,972

CONTINUOUS ADSORPTION-DESORPTION PROCESS

John A. Weedman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 2, 1951, Serial No. 218,787
11 Claims. (Cl. 196—147)



1. A process for continuously separating a mixture of organic compounds capable of being selectively adsorbed by contact in the liquid phase with a solid adsorbent, which comprises, continuously moving particles of a solid adsorbent aggregated into a columnar mass downwardly by gravity flow through an adsorption zone, said particles of solid adsorbent being in a size range of from 3 to 10 mesh, continually feeding said mixture of organic compounds in the liquid phase at an intermediate point into said adsorption zone into contact with the moving particles of adsorbent, continually withdrawing a liquid non-adsorbed component of said mixture from the upper end of said adsorption zone, continually withdrawing said particles of solid adsorbent together with an adsorbed component of said mixture of organic compounds from the bottom of said adsorption zone and passing same to the

upper end of a desorption zone, continually moving said particles of solid adsorbent aggregated into a columnar mass downwardly by gravity flow through said desorption zone, maintaining a column of a liquid desorbent in the lower portion of said desorption zone, said liquid desorbent being less strongly adsorbed by said solid adsorbent than said adsorbed component and having a boiling point greater than said adsorbed component, maintaining a decreasing temperature gradient from the surface of said liquid desorbent to the top of said desorption zone, the temperature in the top of said desorption zone being lower than the boiling point of said desorbent and said adsorbed component, the temperature at the surface of said liquid desorbent being at least as great as the boiling point of the desorbent so as to cause desorbent vapors to rise in said desorption zone and contact said downwardly moving particles of solid adsorbent thereby desorbing and vaporizing said adsorbed component and condensing said desorbent vapors, separating said desorbed component and said desorbent in that portion of said desorption zone above said column of liquid desorbent by utilizing the particles of solid adsorbent contained therein as packing in a fractional distillation zone, returning said condensed desorbent to the surface of said liquid desorbent, continually withdrawing separated vaporous desorbed component from the top of said desorption zone, continually withdrawing particles of solid adsorbent together with adsorbed desorbent from the bottom of said desorption zone and passing same to the top of said adsorption zone into contact with said liquid non-adsorbed component so as to desorb said desorbent, continually withdrawing said desorbent from the top of said adsorption zone along with said non-adsorbed component.

2,643,973

NONSTICKING WAX ARTICLE AND METHOD OF PREPARATION

Norman Thompson, Springfield, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application October 13, 1950, Serial No. 190,057

11 Claims. (Cl. 196—149)

1. An article of manufacture comprising a body of petroleum wax carrying a surface film, in amount effective to prevent sticking, of hydrocarbon distillate oil having a viscosity of 40–7000 S. U. seconds at 100° F.

2,643,974

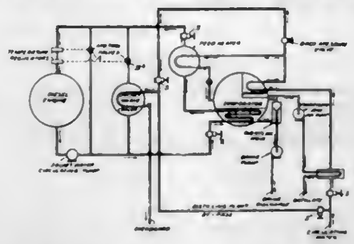
APPARATUS FOR USING WASTE HEAT FROM HEAT ENGINES FOR EVAPORATION OF WATER

Abraham Michael Impagliazzo, Queens Village, N. Y., assignor to The Griscom-Russell Company, New York, N. Y., a corporation of Delaware

Application January 31, 1946, Serial No. 644,541

3 Claims. (Cl. 202—163)

1. Apparatus for the evaporation of liquid by the utilization of waste heat from heat engines carrying a principal load not derived from said apparatus including, in combination, a closed circuit for circulating an auxiliary fluid, said circuit including passages in the heat engine in which the fluid may absorb heat, a cooler in which the fluid may give up heat outside the apparatus, an evaporator heater in which the fluid may give up heat within the apparatus, piping connecting said cooler and said heater in parallel with each other to the exit and entrance to said engine passages, valve means in said piping intermediate said exit, said cooler and said heater, and further valve means intermediate said entrance, said cooler and said heater; a source of



liquid to be evaporated and a vacuum evaporator charged from said source, said evaporator including an evaporating section containing said heater, a vapor condenser, a condensate collector and discharge, and a discharge for unevaporated charge liquid.

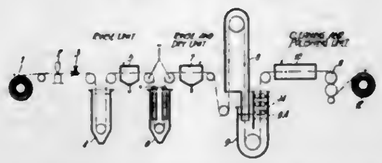
2,643,975

METHOD OF LEAD COATING A FERROUS ARTICLE

Richard A. Neish, Library, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application June 22, 1949, Serial No. 100,686

4 Claims. (Cl. 204—28)



1. The method of applying an adherent coating of substantially pure lead to a ferrous metal article which consists of electroplating the article with a tin coating between 0.000003 and 0.000018 inch in thickness, heating the tin plated article to a temperature between the melting point of tin and 650° F. to substantially completely alloy said tin with the surface of said article, and then immersing the heated article in a molten bath of lead.

2,643,976

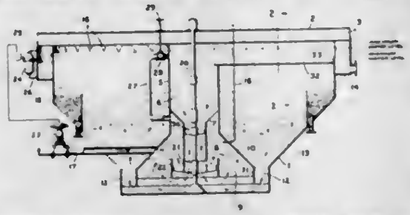
WATER TREATING APPARATUS

Joseph F. Sebald, Bloomfield, N. J., assignor to Worthington Corporation, a corporation of Delaware

Application April 20, 1950, Serial No. 156,997

3 Claims. (Cl. 210—16)

1. In a water treating apparatus, a receptacle, the upper portion of said receptacle including a treated water collection zone and the portion beneath said water collection zone including a settling zone wherein foreign material is precipitated from the water, a treated water storage chamber communicating with said settling zone and having an outlet for treated water, partitions within said receptacle forming a mixing chamber, a recirculation chamber and communicating means for the flow of effluent from said mixing chamber to said settling zone, means for admitting raw water to said mixing chamber, means for admitting chemicals to said mixing chamber, said recirculating chamber having its outlet opening into said mixing chamber, a launder connecting said recirculation chamber and said treated water



storage chamber for conveying water from the water storage chamber to the recirculating chamber, and a weir at the inlet of the chamber whereby treated water will not flow to said recirculating chamber until the water level in the storage chamber rises above the weir.

2,643,977

METHOD OF INHIBITING CORROSION OF METALS

William B. Hughes, Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 29, 1951, Serial No. 208,451

6 Claims. (Cl. 252—8.55)

1. The process of preventing the corrosion of metals when exposed to contact with corrosive oil well fluids which comprises incorporating into the well fluids a small but sufficient quantity of a reaction product prepared by spontaneously reacting about one mol of diethylenetriamine with about one mol of an aldehyde selected from the group consisting of aliphatic aldehydes and aromatic aldehydes, heating the reaction mixture at a temperature sufficiently high, but not in excess of about 190 C., and for a period of time sufficient to drive off water formed in the reaction whereby to form an intermediate reaction product between the amine and the aldehyde, cooling the mixture, spontaneously reacting the intermediate reaction product with an additional mole of an aliphatic aldehyde, and heating at a temperature sufficiently high, but not in excess of about 190° C., and for a period of time sufficient to drive off water formed by the reaction of the added aldehyde with the intermediate reaction product and thereafter causing the well fluids to flow in contact with the metal to be protected.

2,643,978

METHOD OF INHIBITING CORROSION OF METALS

William B. Hughes, Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 24, 1951, Serial No. 212,682

12 Claims. (Cl. 252—8.55)

1. The process of reducing corrosion of metals when exposed to corrosive oil well brines which comprises incorporating in corrosive oil well fluids a small but sufficient quantity of the reaction product prepared by first spontaneously reacting a polyethyleneamine selected from the group consisting of triethylenetetramine and tetraethylenepentamine with an approximately equimolar quantity of an aldehyde to form an intermediate reaction product, distilling water formed in the reaction from the mixture, spontaneously reacting the said intermediate reaction product with a second approximately equimolar quantity of an aldehyde and distilling water formed in the reaction from the reaction product, and thereafter causing the said well fluids to flow in contact with the metal to be protected.

2,643,979

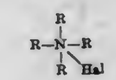
DEMULSIFIABLE LUBRICANT COMPOSITIONS

Albert W. Lindert, Homewood, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

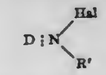
No Drawing. Application November 21, 1950, Serial No. 196,947

13 Claims. (Cl. 252—46.7)

1. A lubricant composition comprising essentially a major proportion of a hydrocarbon oil of from about 0.5% to about 15% of an organic extreme pressure agent containing an element selected from the group consisting of chlorine, sulfur, phosphorus, and mixtures thereof and normally susceptible to the formation of oil-in-water emulsions in the presence of water, from 0% to about 10% of an asphalt, and from about 0.005% to about 1% of a compound selected from the group consisting of a quaternary compound having the general formula:



in which the R's represent radicals selected from the group consisting of alkyl, aralkyl, aryl radicals and mixtures thereof, of which at least one R is an alkyl group of 1 to 3 carbon atoms, and at least one R is an alkyl group having at least 8 carbon atoms, and Hal is an halogen atom, and a quaternary compound having the general formula:



in which D:N is a heterocyclic compound, R' is an alkyl group of at least 8 carbon atoms, and Hal is an halogen atom.

2,643,980

PREPARATION OF A MULTILAYER CATALYST

Eugene J. Houdry, Ardmore, Pa.

No Drawing. Application September 23, 1950, Serial No. 186,503

9 Claims. (Cl. 252—455)

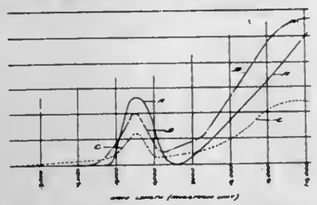
1. In a method for the manufacture of catalysts wherein the quantity of catalytically active material making up the catalyst is built up in a series of deposits produced by successive impregnations with a liquid solution containing said catalytic material, the improvement which comprises applying to said successive deposits, between said successive impregnations, a protective film of an organic material which cannot be displaced or penetrated by said solution during said impregnations, and which is readily removable from said catalyst by oxidation.

2,643,981
METHOD OF MAKING SPONGE RUBBER WITH THE AID OF AMINES
John H. Kelly, Jr., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 15, 1947, Serial No. 748,280
9 Claims. (Cl. 260—2.5)



1. In a method of producing a cellular rubber-like material wherein a hydrocarbon rubbery polymer of a conjugated butadiene which polymer is in a plastic form, is mixed with a blowing agent and a curing agent, and cured in a mold with the aid of heat under conditions imparting an increase in volume, the steps which comprise dispersing through the plastic rubbery polymer prior to curing a member of the group consisting of amines having an aliphatic group connected directly to the amine nitrogen and which are highly soluble in hydrocarbon oils, and mixtures of carbon dioxide producing materials and such amines, said amine group members being present in total amounts greater than 2% and not exceeding 15% by weight of the rubbery polymer, and said group membera containing a carbon-to-carbon chain of at least five carbon atoms exclusive of that directly carrying the amine nitrogen per hydrophilic group, and thereafter heating the mixture thus formed to sufficient temperature to release gas therein and cause expansion of said mixture, and vulcanizing said mixture in expanded form.

2,643,982
LIGHT ABSORBENT COATING AND COATED ARTICLE
Elwyn G. B. Riley, Pinehurst, N. C.
Application May 6, 1949, Serial No. 91,758
9 Claims. (Cl. 260—32.8)



1. A light absorbent liquid coating composition comprising a dispersion of black and ferrite yellow inorganic pigments and a copper phthalocyanine green pigment in a plastic vehicle comprising an air-drying vinyl resin dissolved in a ketone, the black pigment constituting from about 5 percent to about 15 percent of the total pigment, the remainder comprising essentially the copper phthalocyanine and yellow pigments, and the ratio of copper phthalocyanine pigment to yellow pigment varying from about 2 to 1 to about 2 to 3, the pigments being so proportioned in said composition that a film formed therefrom has the properties of absorbing substantially all wave lengths of ultra violet, violet and blue light below approximately 4500 Angstrom units and substantial amounts of wave lengths of light from 6300 to approximately 7500 Angstrom units and of transmitting substantial amounts of wave lengths of light in all other regions.

2,643,983
PROCESS FOR PREPARING CURED SHAPED PRODUCTS
Charles Dangelmajer, Nutley, N. J., assignor to Emsig Manufacturing Company, New York, N. Y., a firm
No Drawing. Application March 28, 1950, Serial No. 152,490
3 Claims. (Cl. 260—40)

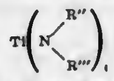
1. A resinous composition for the production by compression molding of shaped and cured products having integral sheen, said composition consisting of a liquid mixture of thermosetting, unsaturated liquid polyester resin with an unsaturated liquid compound having a $CH_2{=}C<$ linkage and being compatible with said resin, a polymerization catalyst and light-reflecting lamellae, said mixture being in the range of maximum viscosity before gelation, but still homogeneously miscible with non-polymerized starting material.

2,643,984
AMINOPLASTS MODIFIED WITH TITANIUM POLYMERS
Thomas Boyd, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application February 9, 1950, Serial No. 143,349
9 Claims. (Cl. 260—45.2)

7. A thermosetting composition comprising a mixture of a polymeric tetraorgano derivative of titanium and a soluble, fusible condensation product of an aldehyde and an aldehyde reactable amino compound containing at least two active hydrogen atoms attached to nitrogen, said polymeric tetraorgano derivative of titanium having been obtained by reacting 0.5 to 1.5 mols of water with 1 mol of an organic titanium compound taken from the group consisting of the esters, mixed anhydrides and amides of ortho titanic acid, said esters having the formula $Ti(OR)_4$ wherein R is taken from the group consisting of alkyl, aryl, aralkyl, alkenyl and aralkenyl radicals, said anhydrides having the formula

$$Ti(O-\overset{O}{\overset{\|}{C}}-R')_4$$

wherein R′ is taken from the group consisting of alkyl and aryl radicals and said amides having the formula



wherein R″ is taken from the group consisting of

hydrogen and alkyl and aryl radicals and R‴ is taken from the group consisting of alkyl and aryl radicals.

2,643,985
STABILIZING POLYESTER MATERIALS WITH PHENYL SUBSTITUTED CATECHOLS
Earl E. Parker, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application April 21, 1951, Serial No. 222,286
13 Claims. (Cl. 260—45.4)

1. As a new composition of matter, a polymerizable mixture of (A) a polyester of a dihydric alcohol and an α ethylenically unsaturated dicarboxylic acid and (B) a small stabilizing amount of a catechol containing a phenyl group.

2,643,986
FIBER-FORMING POLYMERS RENDERED DYE-RECEPTIVE BY REACTION WITH TRIS(DIMETHYLAMIDO) PHOSPHITE
George E. Ham and Alfred B. Craig, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware
No Drawing. Application January 26, 1951, Serial No. 208,087
20 Claims. (Cl. 260—45.5)

1. A method of preparing dye-receptive polymers which comprises reacting tris(dimethylamido)phosphite and a polymer of a monomeric substance of which at least two percent by weight of the total monomer content is a compound of the structure:

$$R-O-CH_2-CH_2-X$$

wherein R is an alkenyl radical selected from the group consisting of vinyl, allyl, methallyl, and isopropenyl and X is a halogen atom, and up to 98 percent of another polymerizable mono-olefinic monomer.

2,643,987
PREPARATION OF MIXTURES OF RUBBERY BUTADIENE STYRENE COPOLYMER WITH HARD RESINOUS SATURATED COPOLYMER OF STYRENE AND ANOTHER UNSATURATED COMPOUND
Stuart A. Harrison, Stow, Ohio, and Walter E. Brown, Cambridge, Mass., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Original application May 23, 1946, Serial No. 671,897, now Patent No. 2,614,069, dated October 14, 1952. Divided and this application January 5, 1952, Serial No. 272,504
1 Claim. (Cl. 260—45.5)

The method of preparing a resin-rubber mixture which comprises incorporating in a binary styrene-acrylonitrile copolymer synthetic resin latex, the synthetic resin particles of which have a major proportion up to 95% by weight of styrene component, a mixture of butadiene and styrene, the butadiene content of said mixture being 30–90% by weight and the styrene content of said mixture being correspondingly 70% to 10% by weight, subjecting the same to polymerizing conditions and continuing the polymerization until the butadiene-styrene copolymer synthetic rubber is 75% to 50% of the thus formed resin-rubber mixture, and coagulating and separating the thus formed mixture of synthetic resin and synthetic rubber from the aqueous medium.

2,643,988
HEAT-STABILIZED POLYCHLOROTRIFLUOROETHYLENE RESINS
Andrew T. Walter, South Charleston, W. Va., assignor to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application October 12, 1951, Serial No. 251,149
11 Claims. (Cl. 260—45.7)

1. A polychlorotrifluoroethylene resin stabilized against color development and degradation of melt-viscosity at molding temperatures by the presence intimately dispersed therein of about 0.01 to 2.5 parts per 100 parts of resin, by weight, of a metal salt of an oxyacid of chlorine, said metal being of the first two groups of metals of the periodic classification.

2,643,989
CERIUM ESTERIFICATION CATALYST
Lawrence Arthur Auspos, Tonawanda, N. Y., and Jane Bowen Dempster, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 20, 1949, Serial No. 116,846
4 Claims. (Cl. 260—75)

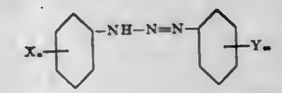
1. A process for the manufacture of a polymerized ester of terephthalic acid, which comprises reacting a glycol of the general formula

$$HO-(CH_2)_n-OH$$

in which n is a number not less than 2 and not greater than 10 with a lower dialkyl ester of terephthalic acid in the presence of a catalyst taken from the class consisting of metallic cerium and cerium oxides, the reaction temperature being not higher than 265° C., said lower dialkyl esters being esters of an alcohol containing not more than four carbon atoms.

2,643,990
METHOD OF PREPARING POLYMERS
George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware
No Drawing. Application January 31, 1951, Serial No. 208,848
13 Claims. (Cl. 260—79.7)

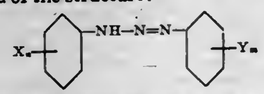
1. A method of preparing polymers which comprises heating a compound containing an N-heterocyclic radical and a polymerizable mono-olefinic radical in the presence of a compound of the structure:



wherein X and Y are radicals selected from the group consisting of the halogen radicals, and the alkoxy and alkyl radicals having up to four carbon atoms, carboxyl radical, and salts thereof, sulfo radical, and salts thereof, and n and m are integers from zero (0) to three (3), and wherein all polymerizable material present are mono-olefinic.

4. A method of preparing a copolymer of from 80 per cent to 98 per cent of acrylonitrile and from two to 20 per cent by weight of the total polymerizable content of a compound containing an N-heterocyclic radical and a polymerizable mono-olefinic radical, which comprises heating

the monomeric composition in the presence of a compound of the structure:



wherein X and Y are radicals selected from the group consisting of the halogen radicals, and the alkoxy and alkyl radicals having up to four carbon atoms, carboxyl radical, and salts thereof, sulfo radical, and salts thereof, and n and m are integers from zero (0) to three (3), and wherein all polymerizable materials present are monoolefinic.

2,643,991

INTERPOLYMERS OF SELECTED 2-ALKENYL 2-ALKENOATES OR LIKE ESTERS WITH SELECTED 2-ALKENYL OR LIKE CHLORIDES, ETHERS OR ESTERS WITH OR WITHOUT A DIFFERENT COPOLYMERIZABLE MONOOLEFINIC COMPOUND

Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 28, 1949, Serial No. 73,437

5 Claims. (Cl. 260—80.5)

1. An acetone-soluble, heat-convertible, unsaturated, resinous, mass interpolymer of monomers consisting of (A) an ester selected from the group consisting of allyl acrylate, allyl methacrylate, allyl crotonate and allyl cinnamate, (B) from 3 to 12 moles per mole of (A) of a compound selected from the group consisting of methallyl chloride, 2-chloroallyl chloride, 2-chloromethylallyl chloride, methallyl ethyl ether, allyl acetate, and allyl chloroacetate, and (C) up to 6 moles of a copolymerizable monoolefinic compound selected from the group consisting of styrene, vinyl alkyl ethers, vinyl esters of saturated aliphatic monocarboxylic acids, acrylic esters of saturated aliphatic monohydric alcohols, and esters of alpha-olefinic polycarboxylic acids with saturated aliphatic monohydric alcohols.

2,643,992

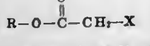
FIBER-FORMING POLMERS

Earl W. Gluesenkamp and Alfred B. Craig, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application January 26, 1951, Serial No. 208,089

20 Claims. (Cl. 260—85.5)

1. A method of preparing a dye-receptive polymer which comprises reacting tris(dimethylamido)phosphite and a polymer of a monomeric substance of which at least two percent by weight of the total monomer content is a compound of the structure:



wherein R is an alkenyl radical selected from the group consisting of vinyl, allyl, methallyl and isopropenyl and X is a halogen atom, and up to 98 percent of another polymerizable mono-olefinic monomer.

5. A method of preparing a dye-receptive polymer which comprises reacting tris(dimethylamido)phosphite with a blend of a polymer of a monomeric substance of which acrylonitrile is at least 80 percent of the total monomeric content and a blend of a polymer of a monomeric substance of which at least 20 percent is a compound of the structure:

wherein R is an alkenyl radical selected from the group consisting of vinyl, allyl, methallyl and isopropenyl, and X is a halogen atom, and up to 80 percent of another polymerizable mono-olefinic monomer.

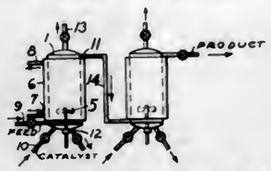
2,643,993

CONTINUOUS PROCESS FOR COPOLYMERIZING STYRENE AND ISOBUTYLENE

Bruce R. Tegge, Chatham, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 13, 1949, Serial No. 115,393

3 Claims. (Cl. 260—88.1)



1. In the process of copolymerizing styrene and isobutylene at a temperature of about —100° F. to —140° F. in the presence of about 1 to 5 volumes of methyl chloride per volume of reactans, and in the presence of a Friedel-Crafts catalyst, using proportion of reactants to produce copolymers having a combined styrene content of about 40 to 70% by weight, the improvement comprising effecting the polymerization continuously in three stages, in the first one of which the polymerization is carried out to a conversion of about 30 to 70%, in the second stage to a total of about 60 to 90%, and in the third stage to substantial completion, the amount of said conversion being controlled by adding increasing amounts of catalyst in the successive stages.

2,643,994

CONTINUOUS PROCESS FOR THE ALKALINE ALCOHOLYSIS OF POLYVINYL ESTERS

Leo M. Germain, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application July 22, 1952, Serial No. 300,347

16 Claims. (Cl. 260—91.3)

1. A process for the alkaline alcoholysis of a polyvinyl ester of a saturated lower aliphatic monocarboxylic acid to a desired degree greater than about 55% of complete alcoholysis, comprising (1) forming a solution of the ester at a concentration having a mobile viscosity at the temperature of reaction, in a liquid which, combined with the liquid products of alcoholysis of the polyvinyl ester and with any residual alcohol from the alcoholysis reaction, is not a solvent for the solid product of the alcoholysis, (2) mixing a continuous stream of the said solution with a continuous stream of an alcoholic solution of an alkaline alcoholysis catalyst in lower aliphatic monohydric alcohol during passage through a mixing zone, to form a continuous homogeneous stream of reacting solution containing at least sufficient alcohol to carry out the desired reaction, (3) continuously conveying the said solution, without further mixing, through a reaction

zone while maintaining it at constant temperature until gelation and syneresis have occurred, (4) continuously removing the resultant products of reaction from the reaction zone as the desired degree of alcoholysis is achieved, and (5) neutralizing the catalyst in the resultant solid product by treating the said solid product with an acidified liquid which is an inert non-solvent for the solid product.

2,643,995

EMULSION POLYMERIZATION PROCESS

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 25, 1949, Serial No. 83,521

6 Claims. (Cl. 260—93.5)

1. A process which comprises polymerizing 100 parts of a polymerizable vinyl aromatic compound in aqueous emulsion using from 0.05 to 0.5 part of an emulsifying agent taken from the group consisting of the alkali metal and alkaline earth metal salts of substituted aryl sulfonic acids in which the substituent is an aliphatic group containing from 12 to 22 carbon atoms, at least 0.5 part of an unsubstituted, saturated aliphatic monohydric alcohol containing from 1 to 20 carbon atoms and from 0.05 to 0.8 part of hydrogen peroxide, said process being carried out at temperatures from reflux temperature at atmospheric pressure to 30° C. below said reflux temperature.

2,643,996

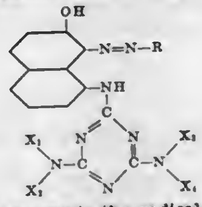
TRIAZINE MONOAZO DYESTUFFS

Willy Widmer, Bottmingen, and Alfred Fasciati, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application August 21, 1950, Serial No. 180,708. In Switzerland September 16, 1949

8 Claims. (Cl. 260—153)

1. A monoazo dyestuff of the general formula



in which R represents the radical of a benzene sulfonic acid containing a hydroxyl group in ortho-position with respect to the azo-linkage, and X_1, X_2, X_3 and X_4 each corresponds to the formula $C_{n-1}H_{2n-1}$, where n is a whole number which is at most 11, the total number of carbon atoms present in X_1, X_2, X_3 and X_4 together being at least 1 and at most 10.

2,643,997

ISOLATION AND PURIFICATION OF STREPTOMYCIN PHOSPHATE

David L. Johnson, Syracuse, N. Y.

No Drawing. Application April 2, 1948, Serial No. 18,720

2 Claims. (Cl. 260—210)

1. A process for refining streptomycin phosphate which comprises the steps of adding activated carbon to a filtered fermentation broth containing streptomycin with the subsequent elution of the streptomycin from the activated carbon by the addition of phosphoric acid, concentrating the substantially neutralized eluate under reduced pressure, treating the concentrate with sufficient tertiary butyl alcohol within the range of 1 to 10 volumes to cause precipitation, separating the precipitate, redissolving the precipitate in water to a concentration of at least 100,000 units/ml., adjusting the pH of this solution to about 6, adding activated carbon to remove pyrogens, and adding the streptomycin concentrate thus obtained to an alcohol to obtain a highly purified precipitate of streptomycin phosphate.

2,643,998

STABLE ANTIBIOTIC SOLUTIONS

Malcolm D. Bray, Noblesville, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application July 1, 1950, Serial No. 171,764

3 Claims. (Cl. 260—210)

1. A composition comprising an aqueous solution of one member of the group of antibiotics consisting of streptomycin and dihydrostreptomycin, and, on a weight/volume basis, from about 0.1 to about 5 percent of a stabilizing agent of the class consisting of thioglycerol, thiosorbitol and thioglucose.

2,643,999

PRODUCTION OF CELLULOSE XANTHOGENATE COMPOSITIONS

Nicolas Drisch, Paris, France, assignor, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands, a corporation of Great Britain

No Drawing. Application February 16, 1951, Serial No. 211,428. In Great Britain August 11, 1950

4 Claims. (Cl. 260—217)

4. Process for the production of a highly viscous cellulose xanthate gel which comprises xanthogenating cellulose with 40–50% carbon disulphide, repeatedly calendering the cellulose xanthogenate thus produced under high pressure and at a temperature below 10° C., and adding during such repeated calendering a quantity of water such that the viscosity of the product exceeds 1000 poises, its cellulose content is 10–25% and its caustic soda content is 3–10%.

2,644,000

NEW QUINOXALINE DERIVATIVES

Justus Kenneth Landquist, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 14, 1951, Serial No. 226,297. In Great Britain May 24, 1950

2 Claims. (Cl. 260—250)

1. Quinoxaline-di-N-oxides selected from the group consisting of 6:7-dimethyl quinoxaline-1:4 - di-N-oxide, 6-chloroquinoxaline-1:4-di-N-oxide, 6-chloro-7-methyl-quinoxaline-1:4-di-N-oxide, 6-bromoquinoxaline-1:4-di-N-oxide.

2,644,001

PROCESS FOR PREPARING ESSENCE D'ORIENT OR PEARL TINCTURE

François Buitelaar, Vlaardingen, Netherlands, assignor to N. V. "De Zijvervisch," Rotterdam, Netherlands, a corporation of the Netherlands

No Drawing. Application May 4, 1950, Serial No. 160,101. In the Netherlands October 24, 1947

14 Claims. (Cl. 260—252)

1. A process of preparing essence d'Orient consisting essentially of natural guanine crystals

from at least one member selected from the group consisting of whole fish and fish parts which comprises heating said fish material for a maximum of 10 minutes at a temperature of about 65°–100° C., adding thereto a water-immiscible liquid, agitating said liquid whereby the guanine crystals are collected therein, filtering said liquid through a coarse filter to rid it of any fish residues, adding another water-immiscible liquid thereto in order to adjust the specific gravity of the water-immiscible liquids to about 1.1–1.35, separating the upper aqueous layer containing impurities and the undesirable mucous substances from the lower layer consisting of the mixture of water-immiscible liquids containing the guanine crystals, and recovering a mass of guanine crystals from the water-immiscible liquids.

2,644,002

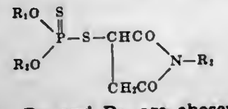
THIOPHOSPHATOSUCCINIMIDES

Erick I. Hoegberg, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 29, 1951, Serial No. 244,277

6 Claims. (Cl. 260—326.5)

1. Thiophosphatosuccinimides of the general formula



in which R_1, R_2, and R_3 are chosen from the group consisting of alkyl, aralkyl, aryl, and alkaryl radicals.

2,644,003

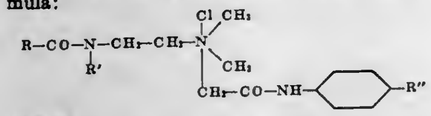
QUATERNARY AMMONIUM COMPOUNDS AND THEIR MANUFACTURE

Hans Gysin and Rudolf Edward Hagenbach, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application February 2, 1951, Serial No. 209,210. In Switzerland February 24, 1950

5 Claims. (Cl. 260—404.5)

1. A quaternary ammonium chloride of the formula:



wherein

R represents an alkyl chain of from 9 to 15 carbon atoms,

R′ represents an alkyl radical of from 1 to 3 carbon atoms,

R″ represents a substituent selected from the group consisting of hydrogen, chlorine, methyl and methoxy.

2,644,004

REFINING OF VEGETABLE AND ANIMAL OILS

Douglas W. Dron, Poughkeepsie, N. Y., and Frank A. Lindsey, Jr., Fredericksburg, Va., assignors to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 16, 1948, Serial No. 60,398

5 Claims. (Cl. 260—425)

1. In the process of refining vegetable and animal oils, the improvement which comprises adding a small quantity of strong, cold lye to the oil at low temperature, subjecting the mixture to violent agitation, maintaining the lye in thoroughly dispersed contact with the oil for a period sufficient to complete the reaction of the lye with the color bodies in the oil and at a low temperature of about 70° to 90° F., adding water to the mixture commencing at a time when the mixture is still at said low temperature to dilute the lye, heating the mixture rapidly to the optimum temperature for centrifugal separation, and centrifuging the mixture to separate the oil from the precipitated impurities and water.

2,644,005

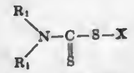
ORGANIC ARSENICAL COMPOUNDS

Ewald Urbschat, Koln-Mulheim, Germany, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany

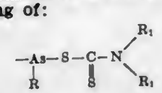
No Drawing. Application February 7, 1950, Serial No. 142,951. In Switzerland February 15, 1949

3 Claims. (Cl. 260—440)

1. Organic arsenical compounds of the general formula:



wherein X stands for a radical selected from the group consisting of:



and



R_1 stands for a radical of the group consisting of hydrogen, alkyl, aryl, aralkyl, tetramethylene, pentamethylene, and $—CH_2.CH_2.O.CH_2.CH_2—$, both free valences of these divalent radicals being attached to the nitrogen atom, and R stands for a radical of the group consisting of alkyl, aryl, aralkyl, and



both free valences of this latter radical being attached to the arsenic atom.

2,644,006

SEPARATION OF OXYGENATED ORGANIC COMPOUNDS

Joan Henri van der Waals, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 7, 1949, Serial No. 80,104. In the Netherlands March 18, 1948

10 Claims. (Cl. 260—450)

1. A process of extracting water-insoluble, oxy-hydrocarbon compounds containing from four to ten carbon atoms per molecule from a lower boiling range fraction of water-insoluble products obtainable by the catalytic synthesis of hydrocarbons from a mixture of carbon monoxide and hydrogen utilizing the Fischer-Tropsch process, which process comprises subjecting a portion of said fraction of products to intimate contact with counter-flowing solvent bodies of an extracting agent comprising a major proportion of formic acid and of a liquid hydrocarbon having a substantially higher boiling range than the boiling range of the hydrocarbons present in said fraction of products, a minor proportion of water, based on the formic acid, being added to the system of counter-flowing solvent bodies at least at one point thereof during said contacting operation, separating resulting extract and raffinate phases, and recovering oxy-hydrocarbon compounds from the separated extract phase.

2,644,007

PREPARATION OF POLYAMINE HYDROCHLORIDES AND POLYISOCYANATES

Carl F. Irwin, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 8, 1951, Serial No. 250,380

6 Claims. (Cl. 260—453)

1. A process for preparing an organic polyisocyanate which comprises introducing at least an equivalent amount of gaseous hydrogen chloride into a vigorously agitated solution of an organic primary polyamine in an inert organic solvent having a boiling point above 120° C., this solution being maintained at a temperature between 120 and 150° C. and below the boiling point of the solution, to form a low viscosity suspension of the corresponding polyamine hydrochloride, introducing phosgene into the suspension at a temperature between 120 and 200° C. and below the boiling point of the solution until hydrogen chloride is no longer evolved, and thereafter separating the polyisocyanate from the solvent.

2,644,008

PREVENTION OF DECOMPOSITION OF CHLOROALKYL ARYLOXYALKYL SULFITES

Harry D. Glenn, Naugatuck, Conn., and Ludwig Meuser, Baton Rouge, La., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 4, 1951, Serial No. 219,319

6 Claims. (Cl. 260—456)

1. A di-ester of sulfurous acid wherein one of the esterifying groups is a chloroalkyl radical containing 2 to 4 carbon atoms and 1 to 3 chlorine atoms and having no chlorine atom attached to the alpha carbon atom, and wherein the other esterifying group is a radical of the formula R—O—X—, wherein R is selected from the class consisting of monovalent aryl hydrocarbon radicals and such radicals substituted by at least one member of the group consisting of alkyl, alkoxy, cycloalkyl, halo and nitro, and X is an alkylene radical having 2 to 4 carbon atoms, said sulfite ester having admixed therewith 0.1 to 5% of its weight of an alkylene oxide.

2,644,009

CONTINUOUS ESTERIFICATION PROCESS

Wilfrid Ernest Cash, Cheam, and William Henry Gell, Hull, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

Application October 6, 1949, Serial No. 119,844

In Great Britain October 15, 1948

10 Claims. (Cl. 260—475)

1. A process for the production of an ester which comprises passing a mixture of a monohydric alcohol and an organic reagent together with an esterification catalyst concurrently through a series of consecutive reaction zones of which at least three are separately heated, said reagent being sufficiently non-volatile to permit removal of the hydroxy compound produced by the esterification of the alcohol with the reagent without removal of said reagent, said reagent being selected from the group consisting of acids, acid anhydrides, acid esters and neutral esters of relatively volatile alcohols, introducing fresh entrainer into said mixture in each of said heated zones and volatilizing and removing said hydroxy compound and entrainer from each reaction zone without passing the vapour thereof through the liquid reaction mixture in any other reaction zone.

2,644,010

SALTS OF d-AMIDONE WITH AN OPTICALLY ACTIVE ACID AND PROCESS FOR RESOLVING dl-AMIDONE

Eugene E. Howe, Bound Brook, and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application October 24, 1947, Serial No. 782,016

6 Claims. (Cl. 260—501)

1. A salt of d-amidone with an optically-active acid selected from the group which consists of a-bromocamphor-π-sulfonic acid and p-nitrobenzoyl-L-glutamic acid.

2,644,011

PROCESS FOR PRODUCING 4-AMINO-2-HYDROXYBENZOIC ACID

Robert P. Parker, Somerville, and James M. Smith, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 8, 1950, Serial No. 194,733

6 Claims. (Cl. 260—519)

1. A process of producing 4-aminosalicylic acid from m-aminophenol and a carbonate of potassium wherein the conversion of the m-aminophenol into 4-aminosalicylic acid is effected under substantially anhydrous conditions in the presence of carbon dioxide, which comprises heating a dry, finely divided mixture of m-aminophenol and a carbonate of potassium to a temperature between 150° and 190° C. in an atmosphere of carbon dioxide, until said conversion is effected and simultaneously comminuting the mixture during said heating and venting carbon dioxide at sufficiently frequent intervals to remove the water formed in the reaction substantially as it is formed.

2,644,012

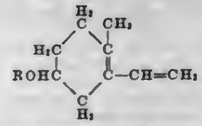
4-SUBSTITUTED-VINYLCYCLOHEXENES AND THE PRODUCTION THEREOF

Jerome Korman, William B. Reid, Jr., Alan H. Nathan, and John A. Hogg, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application October 5, 1948, Serial No. 119,777

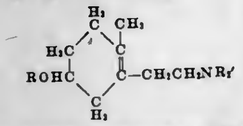
6 Claims. (Cl. 260—611)

1. A process for the preparation of a 1-methyl-2-vinyl-4-hydroetheric-cyclohexene-1 having the formula:

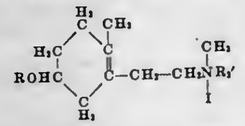


wherein R of the ether radical represents a hy-

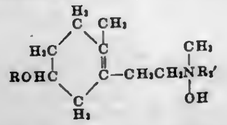
drocarbon radical containing from 1 to 10 carbon atoms, inclusive, comprising the steps of reacting a 1-methyl-2-dialkylaminoethyl-4-etheric-cyclohexene-1 having the formula:



wherein R has the value previously assigned and R′ is an alkyl radical, with methyl iodide to form a quaternary ammonium iodide compound of the formula:



heating the quaternary ammonium iodide compound with moist silver oxide in a solvent to form a quaternary ammonium hydroxide compound having the formula:



separating the quaternary ammonium hydroxide compound from the silver iodide and any excess silver oxide and heating the quaternary ammonium hydroxide compound to cause decomposition to a 1-methyl-2-vinyl-4-etheric-cyclohexene-1.

2,644,013

PROCESS OF PRODUCING POLYHYDRIC ALCOHOL ETHERS FROM HEMIFORMALS AND CARBONYL COMPOUNDS

Robert H. Barth, Ridgewood, N. J., assignor to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 8, 1948, Serial No. 64,262

15 Claims. (Cl. 260—615)

1. A process for preparing a polyhydric alcohol methoxyl compound which comprises reacting in an alkaline medium and in the absence of water, a mixture containing an aldehyde selected from the group consisting of formaldehyde and paraformaldehyde, and a lower aliphatic alcohol together with a lower aliphatic saturated aldehyde containing a replaceable hydrogen atom linked to the carbonyl group.

2,644,014

PHENOL PRODUCTION

Robert H. Saunders, Oxford, Pa., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 30, 1949, Serial No. 136,167

16 Claims. (Cl. 260—621)

1. The process of producing a phenol which comprises contacting a compound selected from the group consisting of α-hydroxy alkyl-substituted and α,β-unsaturated alkyl-substituted aryl compounds at a temperature between about 15° C. and about 100° C. with an oxidizing material selected from the group consisting of persulfates, hydrogen peroxide, alkyl peroxides, and alkyl hydroperoxides in a polar solvent inert to the reactants in the presence of a condensation catalyst.

2,644,015

ALKALINE HYDROLYSIS OF HEXACHLOROBENZENE

Paul D. Bartlett, Weston, Mass., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application February 10, 1950, Serial No. 143,605

9 Claims. (Cl. 260—623)

1. In the production of a phenol by the alkaline hydrolysis of hexachlorobenzene, the step which comprises carrying out the reaction in the presence of a liquid, aliphatic, tertiary alcohol containing up to 10 carbon atoms at a reaction temperature at which the alcohol does not decompose.

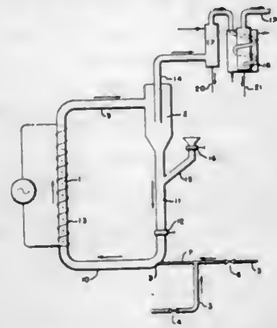
2,644,016

CHLORINATION OF ETHANE

John B. Furr and Clarence M. Neher, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application November 12, 1949, Serial No. 126,768

5 Claims. (Cl. 260—662)



1. A process of chlorinating ethane, which comprises forming a mixture of from 0.4 to 1.3 parts by volume of chlorine, 1 part by volume of ethane and a concentration therein of from 1 to 6 pounds per cubic foot of fully suspended graphite powder having a particle size of from 50 to 250 microns, and passing said mixture through a reaction zone at a temperature of from 400 to 500° C. and with a gas velocity of from 4 to 10 feet per second.

2,644,017

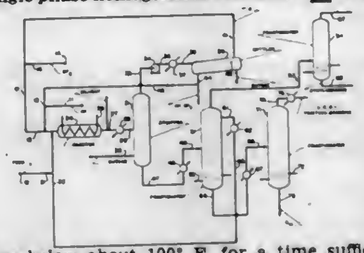
DISPROPORTIONATION OF DIETHYLBENZENE

David A. McCaulay, Chicago, Ill., and Arthur P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 29, 1951, Serial No. 234,416

7 Claims. (Cl. 260—671)

1. A process for the disproportionation of diethylbenzene which process comprises the steps of contacting under substantially anhydrous conditions a feed comprising essentially diethylbenzene in the absence of other aromatic hydrocarbons with at least 1 mol of BF_3 per mol of diethylbenzene and sufficient liquid HF to dissolve all of the BF_3-diethylbenzene complex and form a single phase homogeneous solution, at a temperature below about 100° F. for a time sufficient to produce appreciable quantities of 1,3,5-triethylbenzene and separating the HF and BF_3 from the product mixture.



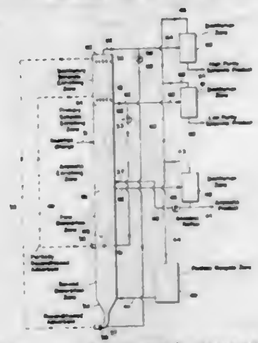
2,644,018

CONTINUOUS ADSORPTION PROCESS

James I. Harper, Media, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application December 16, 1949, Serial No. 133,316

14 Claims. (Cl. 260—674)



1. In a continuous process for separating a mixture of organic compounds by selective adsorption wherein a liquid charge is treated with an adsorbent to selectively adsorb a more adsorbable charge component and the adsorbent is then treated with a liquid desorbing agent to displace such component and recondition the adsorbent for re-use, the steps which comprise countercurrently treating the liquid charge with the adsorbent in an adsorption zone, countercurrently treating the used adsorbent with liquid desorbing agent having an adsorbability not greater than that of the more adsorbable charge component in a desorption zone, withdrawing a portion of the adsorbent in partially reconditioned form intermediate the ends of the desorption zone and introducing it into the adsorption zone at a locus downstream, with respect to the direction of charge flow, from the locus of charge introduction, withdrawing more fully reconditioned adsorbent adjacent the end of the desorption zone remote from its point of introduction thereto and introducing it into the adsorption zone at a still farther downstream locus with respect to the direction of charge flow, withdrawing from the adsorption zone adjacent the locus of introduction of partially reconditioned adsorbent a stream containing raffinate product of relatively low purity and withdrawing from the adsorption zone adjacent the locus of introduction of more fully reconditioned adsorbent a stream containing raffinate product of relatively high purity.

2,644,019

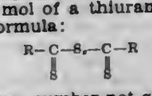
CURING OF RUBBER CEMENTS

Thomas C. Morris, Lexington, and Eric C. Johnson, Somerville, Mass., assignors to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Application April 8, 1949, Serial No. 86,404

11 Claims. (Cl. 260—792)

1. The complex addition product of two mols of a zinc salt of a dialkyl dithiocarbamate wherein the alkyl group has from one to four carbon atoms and one mol of a thiuram sulfide having the following formula:



where x is an even number not greater than four and R is a member of the group consisting of piperidyl and dialkyl amino groups wherein the alkyl group has not more than four carbon atoms.

ELECTRICAL

2,644,020

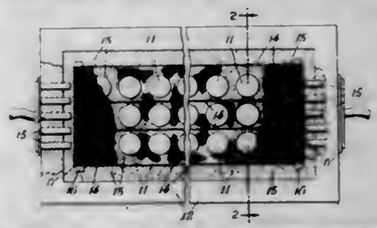
GRAPHITIZATION OF CARBON ARTICLES

Victor Carl Hamister, Lakewood, Ohio, assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application March 28, 1950, Serial No. 152,459

8 Claims. (Cl. 13—7)

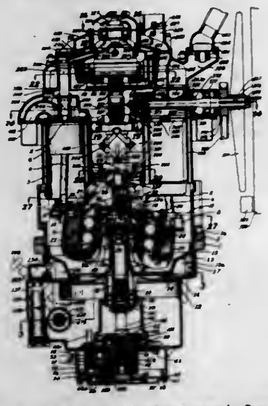
1. In a process of baking shaped carbon articles in an electric furnace of the kind having a packing of granular carbon which serves as an electrical heating resistor between the furnace electrodes, which kind of furnace is characterized by slow and non-uniform heating of the packing until the average temperature thereof is about 400° C. and by more rapid and more uniform heating thereabove, the improvement which comprises embedding an auxiliary resistance element in said granular carbon, said granular carbon having a negative temperature coefficient of resistance, said auxiliary resistance element having a positive temperature coefficient of resistance and having a resistance lower than that of said packing material at temperatures below 400° C.,



disposing said auxiliary resistance element in said furnace in such a manner that it provides a path for electric current through said furnace at tem-

peratures below 400° C., passing an electric current through said furnace whereby the temperature of said carbon articles is raised substantially uniformly to 400° C., and continuing the flow of current through said furnace to elevate the temperature of said carbon articles above 400° C., the resistance of said packing becoming less than that of said auxiliary resistance during said continued flow of current.

2,644,021
INTERNAL-COMBUSTION ENGINE
John Lindsay Hittell, Livonia Township, Wayne County, Mich.
Application March 7, 1946, Serial No. 652,678
27 Claims. (Cl. 123—48)



27. In a variable displacement fuel injection engine, means for controlling the displacement of said engine comprising an expansible fluid chamber reducing engine displacement as said chamber is expanded, means for feeding fluid to said chamber under pressure, valve means controlled by the fluid pressure in said chamber for outletting fluid from said chamber when said pressure exceeds a predetermined value, means for injecting a controllable quantity of fuel per injection into a cylinder of said engine, manually operable means for controlling said quantity, and means for limiting the range of said manually operable means to a predetermined maximum quantity at maximum engine displacement and to a reduced maximum quantity when engine displacement is reduced.

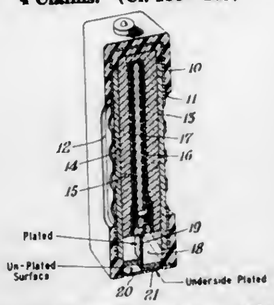
2,644,022
ALKALINE STORAGE BATTERY WITH NEGATIVE IRON ELECTRODE
Joseph Donald Moulton, West Orange, and Edward F. Schweitzer, Bloomfield, N. J., and Thomas R. Briggs, Ithaca, N. Y., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
No Drawing. Application April 28, 1951, Serial No. 223,656
9 Claims. (Cl. 136—25)

9. A storage battery comprising a positive electrode having an active material of nickel oxide, an alkaline electrolyte, a negative electrode having an active material of electrolytically-active iron and an addition agent associated with the said electrolytically-active iron and of an amount of the order of 1% by weight of the iron, said addition agent comprising one or more members of the group consisting of cadmium and antimony materials whose anions are non-corrosive with respect to the iron and are incapable of altering the alkaline electrolyte.

2,644,023
STORAGE BATTERY PASTE WITH AMINO DYE AS ION EXCHANGE EXPANDER
Carl H. Rasch, North Tonawanda, N. Y.
No Drawing. Original application February 27, 1946, Serial No. 650,759. Divided and this application July 6, 1950, Serial No. 177,345
2 Claims. (Cl. 136—26)

1. For a storage battery of the lead-acid type, a plate having a paste thereon comprising an active lead compound and 0.1% to 2%, based on the weight of the paste, of an amino anion exchange body in small discrete particles insoluble in dilute sulfuric acid as an expander, said body comprising an amino organic dye containing an amino group and insoluble in dilute sulfuric acid whereby said compound on discharge of the battery facilitates the change of lead of the active lead compound to lead sulfate giving a greater capacity at low temperature discharge.

2,644,024
ANODE ASSEMBLY FOR PRIMARY GALVANIC CELL
Erwin A. Schumacher, Parma, and George W. Heise, Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application September 28, 1949, Serial No. 118,206
4 Claims. (Cl. 136—135)



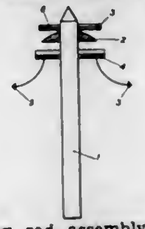
1. An air-depolarized primary galvanic cell comprising in combination a container closed at one end only and having an aperture in its side walls for entry of air; an air-depolarizable carbonaceous electrode covering said aperture; terminal means extending through said closed end of said container and making electrical contact with said carbonaceous electrode; an immobilized electrolyte; an amalgamated zinc electrode in said electrolyte; a unitary metal closure-terminal member forming a seal in cooperation with said side-walls for the open end of said container; and a metal connecting member having one of its ends attached to said closure-terminal member outside of said electrolyte and its other end immersed in said electrolyte and electrically connected to said amalgamated zinc electrode, at least a portion of at least one of said members having a difficultly amalgamable surface extending across the possible path of mercury migration, thereby preventing migration of mercury from said zinc electrode, consequent disruption of said seal, and eventual escape of mercury from the cell.

2,644,025
AIR-DEPOLARIZED PRIMARY CELL
Le Roy S. Dunham, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application November 10, 1951, Serial No. 255,820
12 Claims. (Cl. 136—136)



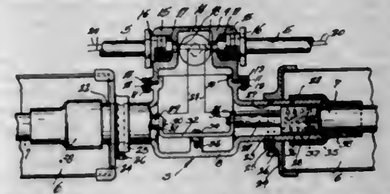
1. A battery of the air-depolarizing type comprising a container, an aqueous electrolyte solution partially filling said container, an air space in said container standing over said electrolyte solution in contact therewith, an air-depolarizing cathode in said container and shielded from direct contact with the atmosphere, said cathode being bathed in part by said air space and in part by said solution, means for admitting outside air into contact with said cathode, said means being constructed and arranged to provide paths for transit air from the outside atmosphere to said cathode bounded in part by said electrolyte solution whereby the entrant air will contact said solution before reaching the cathode, said contact of entrant air with the electrolyte solution being sufficiently great to maintain substantially an equilibrium between said air space and the electrolyte solution as to vapor pressure.

2,644,026
RADIOACTIVE LIGHTNING PROTECTOR WITH ACCELERATING ELEMENTS
Joseph Pierre Grenier and Pierre Edouard Eugène Lescieux, Paris, France, assignors to Ste. Helita, Paris, France
Application April 10, 1951, Serial No. 220,166
In France April 24, 1950
12 Claims. (Cl. 174—2)



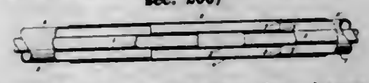
1. A lightning rod assembly, comprising, in combination, a lightning rod having a top end; electrically conductive collector means mounted on said lightning rod in the region of and spaced from said top end thereof and adapted to form an electrostatic field extending in direction of said lightning rod toward said top end thereof; and ion emissive means mounted on said lightning rod insulated therefrom and between said electrically conductive collector means and said top end of said lightning rod so that ions emitted by said ion emissive means are impelled by the electrostatic field created by said electrically conductive collector means in direction of and beyond said top end of said lightning rod extending the effective length thereof.

2,644,027
OUTDOOR FIXTURE FOR TUBULAR LIGHTS
Edward M. Caferro, Spokane, Wash., assignor to Columbia Electric and Manufacturing Company, Spokane, Wash.
Application September 6, 1949, Serial No. 114,137
1 Claim. (Cl. 174—52)



An outlet box comprising a main section having a bottom, side walls, and end walls, said main section being open at its top, an auxiliary section over said main section having an open bottom detachably secured about the open top of said main section and constituting a supporting hood for the main section, said auxiliary section having opposite end portions inwardly thickened and formed with conduit receiving sockets, there being centrally located openings at inner ends of said sockets constituting passages for power wires, tubular sleeves projecting outwardly from end walls of the main section about openings therein and spaced upwardly from the bottom of the main section a boss projecting upwardly from the bottom of the said main section midway the ends thereof and formed with a threaded bore leading from its upper end, a bracket consisting of a strip of stiff metal resting midway its length upon the upper end of said boss and secured thereon by a screw passed downwardly through the strip and screwed tightly into the threaded bore of the boss, ends of said strip being bent upwardly and forming short upstanding arms disposed adjacent the inner ends of the sleeves leading from the end walls of the said main section and formed with openings aligned with the sleeves axially thereof, sockets in the outer end portions of said sleeves and being open at their outer ends and having stems extending from their inner ends longitudinally through said sleeves and connected with the bracket by screws passed through the openings in the arms of the bracket and into threaded bores formed in the stems of the sockets, terminal plugs in the last mentioned sockets slidable longitudinally therein and urging the plugs outwardly, and springs in the last mentioned sockets engaging said plugs and urging the plugs outwardly.

2,644,028
EXPANSION JOINT FOR COAXIAL LINES
Edwin J. Bernet, Washington, D. C.
Application May 4, 1942, Serial No. 441,731
4 Claims. (Cl. 174—88)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. Means for compensating for changes in length of a coaxial non-resonant transmission line, due to changes in temperature, comprising a pair of similar, coaxially aligned transmission line sections, and means for joining adjacent ends of said sections, the ends of one conductor of each of said sections protruding beyond the ends of the other conductor of their respective sections, said

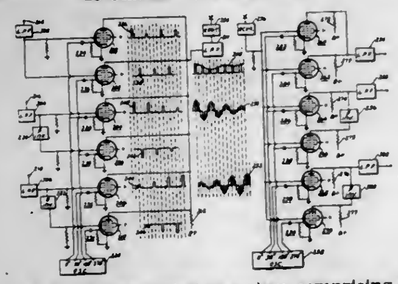
joining means comprising an inner cylindrical sleeve snugly telescoping the adjacent ends of the inner conductor of said sections and an outer cylindrical sleeve snugly telescoping the adjacent ends of the outer conductor of said sections, one end of each of said sleeves being immovably and conductively secured to its respective conductor, the other end of each of said sleeves being in sliding electrical contact with its respective conductor, the length and positioning of one of said sleeves being such that at a predetermined reference temperature in the normal service temperature range of said line, each end of said one of said sleeves will be in the same transverse plane as each one of the adjacent ends of one of said conductors, the ratio between the inside diameter of said outer sleeve and the outside diameter of said inner sleeve being the same as the ratio between the corresponding diameters of said conductors.

2,644,029
NATURAL SILK INSULATED ELECTRIC CONDUCTOR
William Travis, Southport, England, assignor to Connollys (Blackley) Limited, Manchester, England, a British company
Application July 27, 1949, Serial No. 107,115
In Great Britain August 16, 1948
8 Claims. (Cl. 174—124)



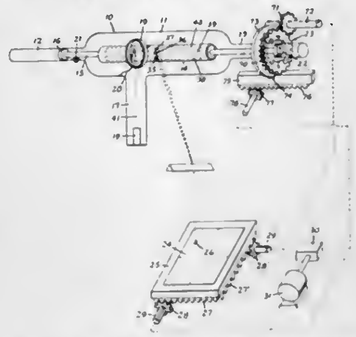
4. An electric conductor provided directly on the surface thereof with an insulating covering consisting of a helically lapped layer of natural silk threads in which the major proportion of the naturally occurring sericin gum is retained, said sericin gum bonding said threads together.

2,644,030
COLOR TELEVISION SAMPLING SYSTEM
Robert C. Moore, Erdenheim, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 16, 1951, Serial No. 215,996
18 Claims. (Cl. 178—5.2)



4. A signal transmission system comprising an input channel for an input wave comprising two carrier wave components having the same frequency and arranged substantially in phase quadrature and a third component establishing a reference level for said carrier wave components, one of said carrier wave components being indicative of the value of one intelligence signal and the other of said carrier wave components and said reference level component being indicative of the values of two other intelligence signals, a first transmission path coupled to said input channel, a sampling system adapted to produce an output signal having amplitude variations determined by amplitude variations of a wave applied thereto and substantially independent of reference level variations of said applied wave, means for coupling said sampling system to said first transmission path to thereby apply said input wave to said sampling system, means to actuate said sampling system at said carrier frequency at given phase intervals to thereby derive from said input wave a first intelligence signal having an amplitude determined by the amplitude of one of said carrier wave components, a second transmission path coupled to said input channel, and means to derive from said second transmission path second and third intelligence signals having amplitudes determined by the amplitude of the other of said carrier wave components and the amplitude of said reference level component, said latter means comprising a second sampling system and means to energize said second sampling system at said carrier frequency in phase quadrature to the actuation of said first sampling system.

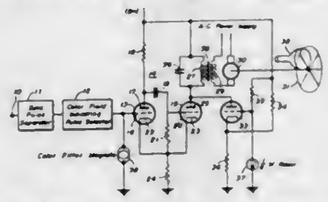
2,644,031
SCANNING DEVICE
Battle H. Klyce, Stamford, Conn., assignor to Time, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1949, Serial No. 89,007
12 Claims. (Cl. 178—5.4)



1. In an electronic device, the combination of an envelope having a viewing window formed therein, a photosensitive element movably mounted in said envelope and adapted to receive radiant energy transmitted through said window thereto, first means external to said envelope for moving said element in the envelope in a first direction, and second means external to said envelope and independent of said first means for moving said element in the envelope in a second direction.

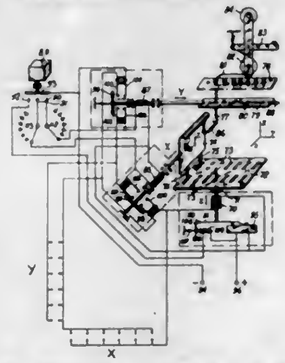
2,644,032
COLOR TELEVISION ROTATING FILTER DRIVE CIRCUIT
Richard A. Maher, Donald S. Oliver, and Frank L. Wedig, Jr., Cincinnati, Ohio, assignors to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application August 2, 1951, Serial No. 239,886
4 Claims. (Cl. 178—5.4)

1. In a color television receiver for receiving a signal having successive video portions representing different color-separation values of the image to be reproduced, each video portion of at least one color-separation value also including a color-field-indicating pulse, the combination comprising a source of color-field-indicating pulses, a rotating color filter having at least one segment assigned to the color-separation value represented by said color-field-indicating pulses, means for producing a color-filter pulse whenever said one color filter segment assumes a given angular position, a non-synchronous motor for rotating said color filter, means for controlling said filter rotating motor comprising a multivibrator having a grid controlled input tube and a grid controlled output tube, means coupling said source of color-field-indicating pulses to the input tube of said multivibrator with such polarity that each color-



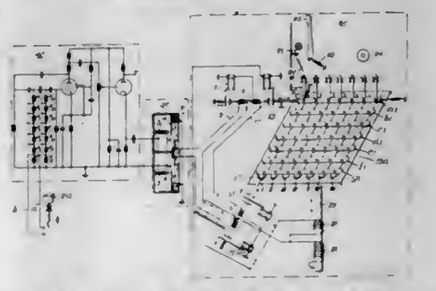
field-indicating pulse drives the multivibrator output tube into conduction and means for coupling said source of color-filter pulses to said multivibrator input tube with such polarity that each color-filter pulse drives said multivibrator output tube into non-conduction, a source of alternating current, a saturable core reactor having a control winding and a controlled winding, means coupling the control winding of said saturable core reactor ito the output of said multivibrator and means coupling the controlled winding of said saturable core reactor between said source of alternating current and said filter rotating motor.

2,644,033
ARRANGEMENT IN THE DISTANT CONTROL OF TYPEWRITERS
Sture Emanuel Stålbecker and Stig Berthold Tibbling, Stockholm, Sweden, assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 5, 1950, Serial No. 199,192
In Sweden November 17, 1950
12 Claims. (Cl. 178—23)



1. In an electrically operated typewriter, a keyboard having a plurality of keys, a plurality of type levers, an operating member for operating each type lever, said operating members being arranged in a plurality of rows in each of two crossing directions, two groups of mechanical selecting devices, each selecting device of one group being associated with a row of operating members in one direction and each selecting device of the other group being associated with a row of operating members in the crossing direction, an electromagnet associated with each, of the selecting devices of the first group for moving it from one position to another to bring the operating members associated with it into operative relation with the selecting devices of the second group, an actuating member common to all of the selecting devices of the second group, an electromagnet for operating said actuating member, an electromagnet associated with each of the selecting devices of the second group to move it from an inoperative position to an operative position in which it is actuated by operation of said common actuating member to operate any operating member that has been brought into operative relation to it by a selecting device of the first group, and electrical circuits including contacts controlled by said keys to energize an electromagnet for moving a selecting device of the first group, an electromagnet for moving a selecting device of the second group and the electromagnet of the actuating member each time a key is depressed, the mechanical selecting devices of the second group comprising substantially parallel plates movably guided in their own planes and adapted to engage said operating members.

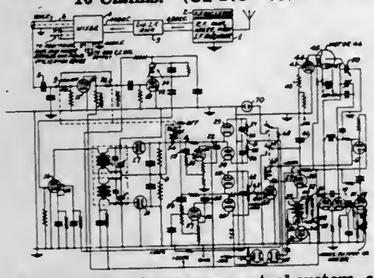
2,644,034
REMOTE CONTROL OF TYPEWRITERS
Sture Emanuel Stålbecker and Stig Berthold Tibbling, Stockholm, Sweden, assignors, by direct and mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 10, 1950, Serial No. 189,374
In Sweden October 19, 1949
16 Claims. (Cl. 178—48)



1. In a remote control electric typewriter, a keyboard comprising a plurality of keys and contacts associated with each key and adapted to be opened and closed by the movement of the respective key, electrical impulse-generating and -transmitting means controlled by said contacts to transmit a characteristic pair of signal impulses when each key is depressed, a series of mechanical selecting members, a second series of mechanical selecting members crossing the selecting members of the first series in a system of coordinates, movable type-operating members disposed at the crossings of said selecting members, a power-generating member tending to move said type-operating members, the movement of all of said type-operating members being normally blocked by said selecting members, and electromagnetic adjusting members for moving

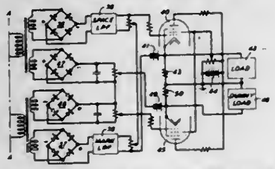
each of said selecting members, means for connecting the adjusting members with said impulse means, each pair of impulses actuating an adjusting member of one series and an adjusting member of the other series to free the type-operating member that is disposed at the crossing of the pair of selecting members moved by said actuated adjusting members, the freed type-operating member being moved by said power-generating member.

2,644,035
AUTOMATIC FREQUENCY CONTROL
Bertram A. Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 11, 1950, Serial No. 161,305
10 Claims. (Cl. 178—66)



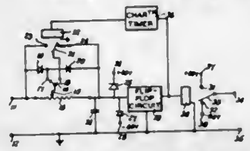
1. An automatic frequency control system, comprising means, to which signals are fed, for utilizing such signals, tunable means for controlling the frequency of the signals fed to said utilizing means, a two-phase motor having two field windings and having an armature coupled to said tunable means to vary the tuning thereof, a source of alternating current coupled to one field winding, a pair of electron discharge devices having input, output and control electrodes, connections for applying alternating current from said source antiphasally to corresponding input electrodes of each of said devices, a connection between the output electrodes of both said devices and the other field winding, means coupled to said utilizing means for deriving a potential which varies with respect to a reference value in response to variations of the frequency of said signals from a predetermined value, and means for applying said potential to the control electrode of one of said devices.

2,644,036
RECEIVER FOR TWO-TONE CARRIER SYSTEMS
Theodore A. Jones, Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 29, 1950, Serial No. 181,951
6 Claims. (Cl. 178—66)



1. A receiving circuit for carrier telegraph signals wherein marking and spacing signals are transmitted as waves of different frequencies, means for selectively receiving said marking signals, a first and a second rectifier, means to apply said marking and spacing signals to said first and second rectifiers, respectively, a first space discharge device having at least an anode, a control grid, and a cathode, means to connect the outputs of said first and second rectifiers in series opposing between the grid and cathode of said first space discharge device, a source of direct current connected between said anode and said cathode, and means to stabilize the voltage of said supply which comprises a third and a fourth rectifier, means to also apply said marking and spacing signals to said third and fourth rectifiers, respectively, a second space discharge device having at least an anode, a control electrode, and a cathode and also having said source connected between its anode and cathode, and means to connect the outputs of said third and fourth rectifiers in series opposing between the grid and cathode of said second space discharge device in a manner opposite to the connection of the outputs of said first and second rectifiers in the grid-cathode circuit of said first space discharge device.

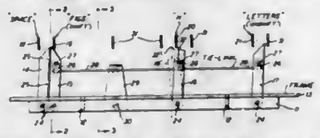
2,644,037
ELECTRIC WAVE DISTORTING NETWORK
Raymond Beaufoy, Taplow, England, assignor to British Telecommunications Research Limited, Taplow, England, a company of Great Britain
Application February 18, 1952, Serial No. 272,239
In Great Britain February 22, 1951
4 Claims. (Cl. 178—70)



1. An electric wave distorting network comprising a capacitor connected in series with a resistor to the input terminals of the network, a switching device responsive to the voltage across the capacitor exceeding a predetermined amount in one sense to become switched on and responsive to the said voltage exceeding a predetermined amount in the other sense to become switched off, and a further switching device adapted to apply and remove a short-circuit across a part of the said resistor automatically to alter the time constant of charge of the capacitor in respect to a predetermined one or more of a succession of voltage pulses applied to the input terminals of the network.

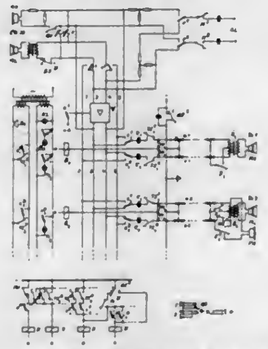
2,644,038
KEYBOARD MECHANISM FOR TELETYPEWRITERS
David E. Branson, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 12, 1951, Serial No. 220,564
1 Claim. (Cl. 178—79)

In a keyboard controlled telegraph transmitter, a plurality of individually depressible key levers including one assigned to control the generation of an upper case shift signal, one to control the generation of a lower case shift signal, one to control the generation of a character spacing signal, and a plurality to control the generation of character signals, an arm pivotally mounted below said upper case shift key lever and having a camming surface presented in the path of that key lever to cause pivotal movement of said arm in one direction by that key lever, a similar arm associated with said lower case shift key lever and having its camming surface arranged to cause pivotal movement of the arm in the opposite direction, a link member interconnecting said arms for longitudinal movement by either of them and of such length that either arm upon being



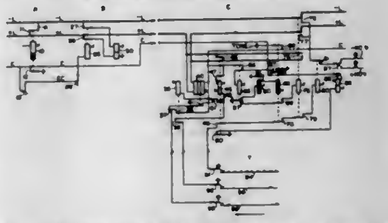
pivotally operated by its associated key lever, restores the other arm, a key lever blocking element associated with said link member for blocking and alternately unblocking one of said character signal key levers according to the movement of said link member by the respective arms, and another pivotally mounted arm presenting a camming surface in the path of said spacing key lever and operable to move said link member in the same direction as the arm associated with said lower case shift key lever.

2,644,039
CIRCUIT ARRANGEMENT FOR CONFERENCE CALL INSTALLATIONS
Heinz Robert Rensch, Korntal (Wurttemberg), Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 11, 1950, Serial No. 178,817
In Germany August 5, 1949
15 Claims. (Cl. 179—1)



1. A multiple station telephone system for conference operation and intercommunication, comprising a main station and a plurality of extension stations, circuits interconnecting all said stations, a voice receiving and transmitting means adapted to operate as a microphone and loudspeaker located at each station, an amplifier, means normally connecting the input of said amplifier to the receiving and transmitting means of said main station, means for calling the main station from each extension station, and control means at the main station for selectively connecting the receiving and transmitting means of the extension stations in parallel to the output of the amplifier and said control means also simultaneously conditioning each connected extension station to enable it to switch its receiving and transmitting means from the output to the input of the amplifier and to enable each said connected extension station to switch the main station receiving and transmitting means from the input to the output of the amplifier, and switching means at each extension station for switching the connections to the amplifier of the receiving and transmitting means thereat and at the main station only when said extension station has been conditioned by said control means.

2,644,040
PAY STATION CONTROL TRUNKING FOR MIXED SERVICE TELEPHONE SYSTEMS
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application March 5, 1947, Serial No. 732,418. Divided and this application July 28, 1949, Serial No. 107,331
5 Claims. (Cl. 179—6.3)

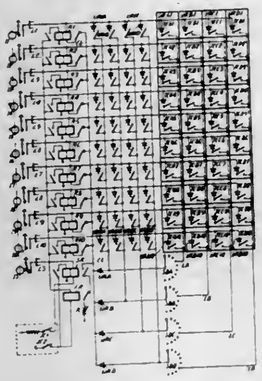


3. In a telephone system having calling and called subscriber lines and means for establishing connections therebetween, a trunk circuit common to said lines and including a coin control circuit, relay timing means comprising a pair of slow-acting relays also included in said trunk circuit, means for including said trunk circuit in a connection, means whereby said last-mentioned means is responsive to the origination of a call by one of said calling lines, control means for operating said relay timing means, means whereby said control means is responsive to said connection, means for releasing said control means, means whereby said last-mentioned means is responsive to the severance of said call, means for initiating the release of said pair of slow-acting relays in said relay timing means, means whereby said last-mentioned means is responsive to the release of said control means, a timing device, and means effective only during the release time of of said relay timing means and intermittently controlled by said timing device for intermittently completing said coin control circuit.

2,644,041
CYCLIC SWITCHING APPARATUS
Richard Mercer, London, England
Application January 7, 1949, Serial No. 69,719
In Great Britain January 16, 1948
10 Claims. (Cl. 179—18)

1. A signalling circuit comprising a plurality of switching devices, a source of potential, an electro-responsive device having at least two terminals, continuously operated cyclic switching means for connecting one terminal of said source of potential to one contact of each switching device simultaneously at a predetermined instant in the cycle and for connecting the same terminal of said source of potential to one terminal of said electro-responsive device at said pre-

determined instant in the cycle, switching means for connecting another terminal of said source of potential to another terminal of said electro-responsive device, and selecting means for connecting another contact of each of a plurality



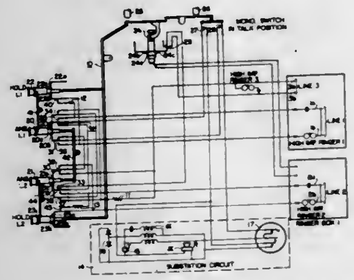
of said switching devices with said other terminal of said electro-responsive device, whereby the electro-responsive device can only respond if none of the selected switching devices are in a particular condition.

2,644,042

MULTILINE TELEPHONE SUBSTATION INSTRUMENT AND CIRCUITS

Duncan N. MacDonald, Evanston, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application January 17, 1951, Serial No. 206,376
5 Claims. (Cl. 179—81)



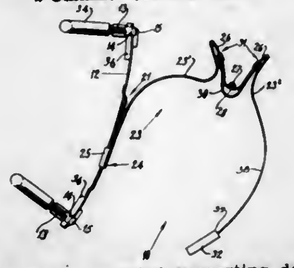
1. In a substation instrument, a first, second and third communication line terminating therein; a first and second answer key individually associated with said first and second lines respectively; a substation circuit selectively connectable to said lines; a holding circuit for said third line, and means responsive to the operation of said first key for at times connecting said holding circuit to said third line and connecting said first line to said substation circuit and said means responsive to the operation of said second key for connecting at other times said holding circuit to said third line and connecting said second line to said substation circuit.

2,644,043

SHOULDER MOUNTED SUPPORT FOR TELEPHONE TRANSMITTER-RECEIVERS

Evangelos Zakos, Brooklyn, N. Y.

Application July 28, 1949, Serial No. 107,171
2 Claims. (Cl. 179—157)



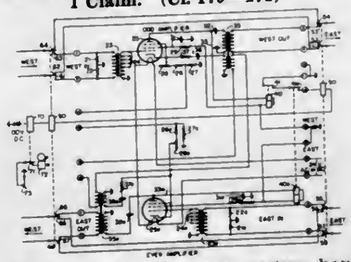
1. A shoulder mounted supporting device for a telephone transmitter-receiver frictionally slidably adjustable for use by many persons to bring the receiving end portion of said transmitter-receiver directly in contact with an ear of the user, comprising an elongated arm having means for encircling and gripping said receiver at two points spaced-apart along its length, an inverted substantially U-shaped shoulder clamp slidable along said arm and being resiliently retained in vertically adjusted position on said arm to suit the distance between an ear and a shoulder of the user, said shoulder clamp comprising front and rear pivoted members, whereby said shoulder clamp is automatically adjustable to overlay the front and rear sides of the shoulder of the user and to grip the shoulder irrespective of the size thereof, a tubular rubber sheath grip engaging the lower end portion of said rear member and having an inwardly extending projection, said rear member being considerably curved to cause said sheath grip to forcibly engage the back of the user, said supporting device remaining resiliently attached to the shoulder of the user both in sitting or in standing positions.

2,644,044

VOICE CURRENT REPEATER

Otho D. Grandstaff, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application May 28, 1949, Serial No. 96,052
1 Claim. (Cl. 179—171)



In a voice current repeater system having a by-pass channel and a repeater channel, an amplifier connected in said repeater channel, a vacuum tube included in said amplifier having a plate and cathode and conducting a plate current of a particular value during normal operation, said current composed of a direct current component

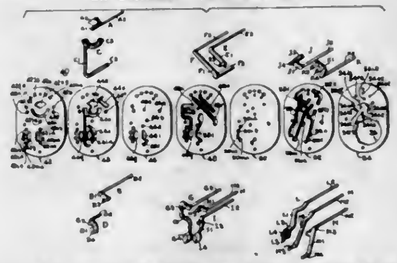
and an alternating current component, a circuit in said amplifier including said plate and said cathode having two parallel branches, a first of said parallel branches including a direct current blocking capacitor and amplifier output coupling means, a second of said parallel branches including a relay having a winding characterized by a high inductance and a low distributed capacitance and acting as an alternating current choke, and a source of plate potential, said first parallel branch forming a path for said alternating current component, said blocking capacitor shunting said direct current component along the path formed by said second parallel branch, said winding of said relay in said second parallel branch effectively preventing the passage of said alternating current component and energizing said relay by means of said direct current component when said plate current is of said particular value, and means operated by said relay to connect said repeater channel in said repeater system when said plate current is of said particular value and to connect said by-pass channel in said repeater system when said plate current falls below said particular value.

2,644,045

ELECTRICAL ASSEMBLY

Vincent R. Herterick, Waltham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application January 15, 1952, Serial No. 266,550
12 Claims. (Cl. 200—11)



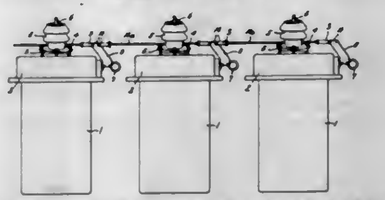
11. An electric switch assembly, comprising a housing, a circuit-completing means disposed at one end of the housing which is operable from outside the housing, and a connector assembly disposed in the housing adjacent the circuit-completing means, said connector assembly comprising a series of stacked insulating plates and a series of relatively rigid conductor bars assembled therewith, said stack of plates comprising a face plate and a rear plate having suitable openings disposed in predetermined positions to receive ends of said connector bars, and at least one template plate disposed between said face plate and said rear plate, said template plate having elongated slots disposed therein which extend generally between points thereon opposite non-aligned openings in said front plate and said end plate between which it is desired to provide an electrical path, said conductor bars having flat medial portions disposed in and conforming to the shape of said elongated slots, connector members extending from appropriate points thereon into said openings in the face plate and terminating in ends which are substantially flush with the front surface thereof for electrical contact with the circuit-completing means, and other connectors extending from said medial portions rearwardly into the openings in said rear plate.

2,644,046

RECLOSING CIRCUIT INTERRUPTER

Domenic J. Piccone, Ardmore, Pa., assignor to General Electric Company, a corporation of New York

Application June 23, 1950, Serial No. 169,991
1 Claim. (Cl. 200—18)



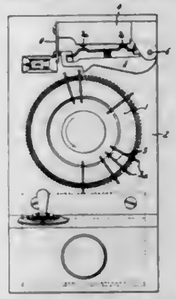
In a circuit interrupter of the reclosing type comprising a plurality of single pole interrupting units each having its individual operating means, and normally inactive lockout means associated with each unit and effective upon actuation thereof for individually causing the corresponding unit to open; the improvement comprising: a manually-operable pivoted operating crank disposed on each unit and movable from a normal position to an operated position so as to actuate the associated normally inactive lockout means, an operating rod being operably related with said pivoted cranks, and means connecting said pivoted cranks to said operating rod at a location such that when said cranks are in said normal position, the weight of said operating rod and said connecting means biases said pivoted operating cranks in one direction to hold said cranks in said normal position and such that when said cranks are moved to their operated position the force due to the weight of said operating rod and said connecting means is shifted relative to the pivot of said cranks so that said force biases and acts to hold the cranks in said operated position.

2,644,047

ELECTRIC SWITCH

Vincent W. Leonard, Saugus, Mass., assignor to General Electric Company, a corporation of New York

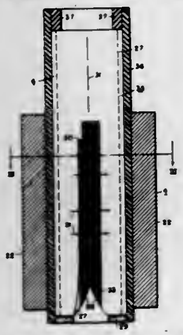
Application February 23, 1951, Serial No. 212,383
6 Claims. (Cl. 200—38)



1. In a cycle timer, a rotatable timing dial having an actuating key carried thereby, a contact block mounted adjacent said dial and having a pivot pin fixed thereon, a contact arm formed of insulating material and pivotally mounted at one end upon said pin, said contact arm having a cam surface thereon, stop means engaging the other end of said contact arm normally to hold said cam surface in the path of movement of

said actuating key, a bridging contact member resiliently mounted on said contact arm in substantially parallel spaced relation therewith, and a pair of fixed contact members mounted on said block and positioned to be engaged by opposite ends of said bridging contact member.

2,644,048
CIRCUIT INTERRUPTER
Russell E. Frink, Pittsburgh, and Eugene H. Fischer, Latrobe, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,332
14 Claims. (Cl. 200—144)



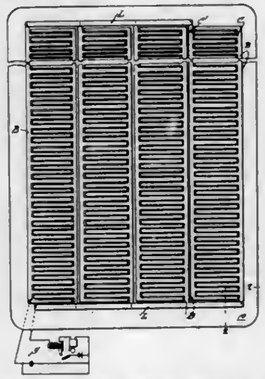
1. A circuit interrupter of the air-break type including a plurality of closely spaced plates of insulating material having tapered slots provided therein, the tapered portion of the slot in each plate being offset from the center line of the plate and the plates being alternately assembled with the tapered ends of the slots to the right and to the left of the center line to form a zigzag arc passage, means for establishing an arc, the arc moving within the several slots and into the zigzag arc passage, and a plurality of longitudinally extending grooves on at least one side of each of a plurality of plates adjacent the slot therein to form upon assembling a lengthened creepage path in parallel with the arc after it has assumed a zigzag configuration near the closed ends of the slots.

2,644,049
PRESSURE ACTUATED SWITCH
Gordon E. Waters, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application July 18, 1951, Serial No. 237,370
8 Claims. (Cl. 200—52)



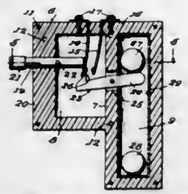
4. A pressure-actuated switch comprising a frangible resistance element, a spring, and a pressure pad, one portion of said spring being fixed relative to said element and another portion of said spring being attached to said pad, whereupon said pressure pad is resiliently biased into contact with said frangible element and serving to break the element and open the switch in response to pressure on the pad.

2,644,050
ENURESIS BED PAD
Harry Wright Seiger, Santa Monica, Calif.
Application December 27, 1951, Serial No. 263,640
4 Claims. (Cl. 200—52)



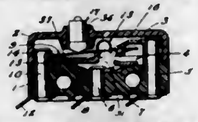
1. A urine controlled signal device of the kind set forth and including an insulative, waterproof bed pad, of flexible material, and a plurality of units each of elongated, oblong form in plan; each unit consisting of a pair of comb-like electrodes with their teeth intermeshed and the elongate backbone portion of the combs of the units being parallel in adjacent units and spaced to provide flexibility of the pad and reduce hazardous flexure of the teeth of the combs and in close proximity.

2,644,051
AUTOMATIC SAFETY SWITCH
Richard N. Maloof, Las Vegas, N. Mex.
Application January 2, 1952, Serial No. 264,525
9 Claims. (Cl. 200—52)



1. An automatic safety switch device for motor vehicles and the like, comprising a pair of contacts adapted to be connected in circuit with an ignition system, at least one of said contacts being normally under a disengaging tension, tending to break said circuit, manually operated means for closing said contacts to complete said circuit, a latch element including a pivoted operating arm, carrying at one end, a catch adapted to engage said tensioned contact, upon the rocking of said arm on its pivot, to lock the contacts in circuit-making position, the opposite end of said operating arm projecting into a closed chamber, a gravity responsive member in the upper portion of said chamber above said arm and normally resting upon the latter to exert thereon a downward force for maintaining the locking engagement of said catch, and a second gravity responsive member in the lower portion of said chamber below said arm, normally out of contact with the latter but capable of movement into contact therewith, through the force of gravity, upon the overturning of said chamber, whereby said arm is rocked in the reverse direction to release said catch and permit the breaking of said circuit, by the retraction of said tensioned contact.

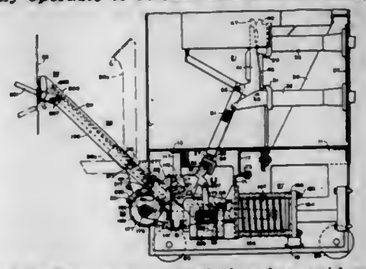
2,644,052
NONBOUNCE SWITCH
Wilbert A. Martin, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 2, 1951, Serial No. 209,123
17 Claims. (Cl. 200—67)



1. In a switch mechanism having a fixed stop, a switch blade having a fixedly mounted portion and a portion remote from its mounted portion free to move past said fixed stop between alternate positions, means to exert a force at said movable portion of the switch blade having a substantial component perpendicular to said switch blade for moving said movable portion of the switch blade past said fixed stop, a resilient extension connected to said movable portion of the switch blade and extending therebeyond in a direction away from said mounted end of the switch blade, and contact carrying means resiliently connected to said extension and extending back toward the mounted portion of the switch blade and carrying a mobile contact disposed in close proximity to said movable portion of the switch blade at which said force is exerted, said means for exerting said force against said movable portion of the switch blade being operative to move the latter in one direction past said fixed stop to move said mobile contact into engagement with said fixed stop and being operative after such engagement to continue to exert said force in the same direction to restrain said movable portion of the switch blade and said extension from rebounding back to the other side of said fixed stop so as to thereby oppose rebound of the mobile contact away from said fixed stop.

2,644,053
HIGH-SPEED CIRCUIT BREAKER OPERATING MECHANISM
Harry J. Lingal and Joseph D. Findley, Jr., Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 10, 1951, Serial No. 210,389
16 Claims. (Cl. 200—89)

1. A controlling and operating mechanism for an enclosed circuit breaker, an enclosing housing for said circuit breaker having an openable door therein, operating mechanism releasable to effect opening of said circuit breaker, closing means for said circuit breaker comprising a stored energy device, energy storing mechanism operable to store energy in said stored energy device, holding means releasably holding said stored energy in said stored energy device, control means supported on said breaker terminating adjacent to said housing and accessible from outside said housing, means on said control means for manually operating said energy storing mechanism to store energy in said stored energy device, means on said control means operable to release said operating mechanism to effect opening of said breaker free of said closing means, and means on said control means manually operable to release said stored energy device to effect closing of said breaker, said energy storing mechanism, said operating mechanism release means, and said stored energy release means all being operable from outside said housing while said openable door remains closed.



2,644,054
AUTOMATIC MERCURY SWITCH FUSE
Israel Shamah, New York, N. Y., assignor to Ismah Corporation of New York
Application July 1, 1950, Serial No. 171,631
6 Claims. (Cl. 200—113)

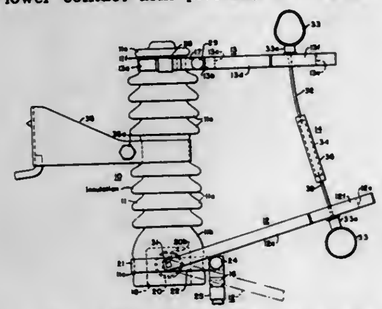


1. A combined mercury switch and fuse comprising a casing body part, a downwardly curved elongated tubular non-conductive member closed at its ends and having contact terminals in one end thereof, a globule of mercury within the tubular member and adapted to abridge the contact terminals, an operating member supporting said tubular member, means for securing the operating member to the casing part for tilting movement between set and non-set positions whereby the mercury globule can be shifted in the downwardly curved tubular member from one end to the other end thereof to operate as a switch, and means extending between the casing body and the operating member to retain the operating member in its adjusted positions, said mercury globule with the downwardly curved tubular member serving as a fuse between said contact terminals in the set position upon overload of a circuit to be connected thereto, the operating member and the tube being so positioned in the set position of the operating member to trap the mercury globule at the end of the tube opposite from the contact end when the mercury globule is exploded upon overload.

2,644,055
FUSE CUTOUT
James M. Wallace, East McKeesport, and Earl F. Beach, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1949, Serial No. 91,934
19 Claims. (Cl. 200—114)

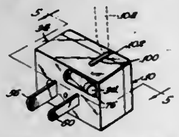
1. A fuse cutout for outdoor use comprising, an electrical insulator suited for mounting in an

upright position and being re-entrant at the base thus providing a recess therein, a transmission line terminal mounted adjacent the upper end of the insulator, an upper contact arm fixedly mounted on the upper end of said insulator and electrically connected to said transmission line terminal, another transmission line terminal mounted adjacent the lower end of the insulator, a lower contact arm pivotally mounted at the



lower end of said insulator and electrically connected to said other transmission line terminal, a fuse link interconnecting said contact arms, and spring means within the recess of said insulator for protection against weather and for biasing said pivotally mounted contact arm away from said fixedly mounted contact arm to tension said fuse link.

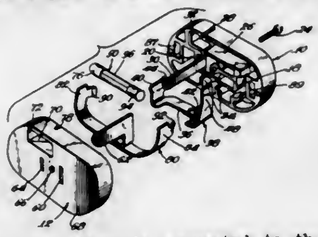
2,644,056
FUSED, POLARIZED, BLADE-TYPE ELECTRICAL COUPLING
Clarence R. Curtis, Lombard, Ill., assignor to F. H. Smith Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 29, 1950, Serial No. 159,037
11 Claims. (Cl. 200—115.5)



1. A fused, polarized, electrical coupling comprising an insulated housing, a pair of through conductors insulated from each other therein, one terminating in a ground blade and the other in a hot line blade having a smaller cross section than the ground blade, and a removable cartridge fuse in the hot line.

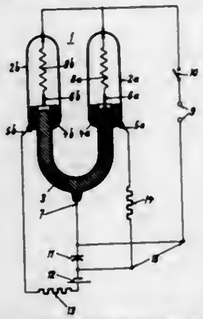
2,644,057
FUSED, POLARIZED, MALE TO FEMALE BLADE-TYPE ADAPTER
Clarence R. Curtis, Lombard, Ill., assignor to F. H. Smith Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 9, 1950, Serial No. 178,532
17 Claims. (Cl. 200—115.5)

1. An adapter comprising a housing, a ground blade and a hot blade physically different from the ground blade extending from one surface thereof, said blades being electrically conductive, a plurality of blade-type receptacles, a pair of electrically conductive female contacts in each receptacle, a non-fusible conductor connecting the ground blade to one female contact in each receptacle, a chamber for a removable fuse, and a pair of spaced electrodes in said



chamber, one electrode connected to the hot blade and the second electrode connected to the other female contact of each receptacle.

2,644,058
HEAT-CONTROLLED LIQUID SWITCH
Hermann Locali, Zurich, Switzerland
Application October 10, 1951, Serial No. 250,641
In Switzerland February 9, 1951
3 Claims. (Cl. 200—122)

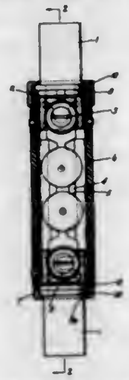


1. A heat-controlled electric switch, comprising a substantially U-shaped envelope having a bight portion and two limbs and having two head portions forming respective overflow chambers at the respective ends of said two limbs, a quantity of conductive liquid enclosed in said envelope and a gaseous medium above said liquid in each of said limbs, two electric heaters disposed in said respective head portions, each of said heaters having a first terminal extending to the outside of said envelope and a second terminal disposed at the end of the pertaining limb and engageable by the liquid contained in said bight portion and limbs, an exteriorly accessible contact member mounted on said bight portion in contact with the liquid contained in said bight portion and limbs, and two contact members mounted on said envelope in said two overflow chambers respectively for engagement only by liquid collected in said respective chambers.

2,644,059
ELECTRIC FUSE
Benjamin W. Jones, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 20, 1950, Serial No. 191,252
2 Claims. (Cl. 200—131)

1. A substantially airtight cartridge fuse having aligned axially spaced terminal blades, a fuse

link interconnecting said blades, an elongated cylindrical insulating casing, and end closure means for said casing through which said blades extend, at least one of said end closure members comprising a casing collar having an internal



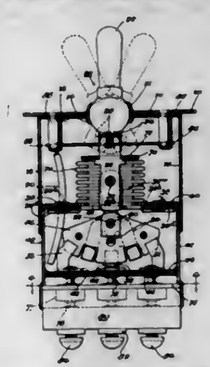
flange and a porous sintered metal disk slotted to fit around one of said blades held within said collar by said flange for venting high temperature high pressure gases formed upon blowing of the fuse link.

2,644,060
RENEWABLE FUSE LINK
Fred G. von Hoorn, Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application September 29, 1951, Serial No. 248,988
5 Claims. (Cl. 200—135)



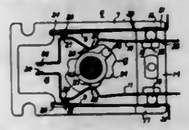
1. An improved renewable electric fuse link comprising a bar of uniform thickness notched to provide mounting portions, a plurality of similar heat mass portions with the central one of said portions having a larger area than the others, and a plurality of fusing sections interconnecting said heat mass portions with one another and with said mounting portions, said fusing sections being arranged in pairs on opposite sides of the axial center line of the link with pairs closer to said central portion being displaced a lesser distance from the axial center line than pairs closer to the ends of said link whereby a current flow path is produced wherein the current travels a greater length across outer heat mass portions than across the central mass portions to effect a greater heat production in the outer of said heat storage masses than in the central one thereof.

2,644,061
HERMETICALLY SEALED LEVER OPERATED SWITCH
Walter L. Dietrich, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application November 30, 1950, Serial No. 198,445
5 Claims. (Cl. 200—144)



1. An electric switch comprising fixed and movable contacts, a contact-moving member for operating said contacts between engaged and disengaged positions, an hermetically sealed enclosure for said contacts including a rigid housing and flexible means sealed thereto, said flexible means also being sealed to said contact-moving member with said member extending therethrough for manipulation outside the enclosure, said rigid housing part being laterally extended from its connection with said flexible means providing room for said contacts, and a pivot within said enclosure for said contact moving member, a tiltable operating member engaging the exteriorly extending portion of said contact moving member, and means mounted on said enclosure to support said operating member exteriorly of said enclosure.

2,644,062
SWITCH
Herbert D. Williams, Monroe, Conn., assignor to General Electric Company, a corporation of New York
Application October 31, 1950, Serial No. 193,069
3 Claims. (Cl. 200—165)



1. A switch for an electrical appliance comprising an insulating body member housing a plurality of spring contact arms to form an inner and an outer pair, said outer arms each having a contact intermediate its ends, each of said inner arms having a contact registerable with said outer contact respectively, each of said inner arms further having a contact positioned at its outer extremity, means for moving said inner contact arms to provide engagement between said electrical contacts, said moving means comprising an integral handle, cam and connecting shaft with said cam having pairs of oppositely

disposed surfaces with the surfaces of each pair having a different radius, a cover engageable with said body portion to enclose said cam and said spring contact arms, said cover comprising a pair of strips, each of said strips having a longitudinal slot, said slots having a width adapted to surround said cam shaft whereupon said handle extends out from said switch while said switch arms and said cam are enclosed when said strips are superimposed and in engagement with said body member.

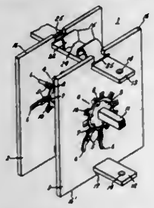
2,644,063

SWITCH WAFER MOUNTING CLIP

Edward J. Zikmund and Samuel E. Hatchett, Syracuse, N. Y., assignors to General Electric Company, a corporation of New York

Application May 21, 1951, Serial No. 227,345

7 Claims. (Cl. 200—168)



1. A quickly detachable assembly for mounting electrical apparatus comprising a mounting wafer having a pair of spaced-apart support openings, means for supporting said wafer comprising a pair of elongated transverse members each fitting within one of said support openings and a pair of spring clips each releasably securing one of said transverse members to said wafer within one of said openings, each said spring clip having a detent portion cooperating with its adjacent transverse member and mounting wafer and constructed to resist lateral forces tending to disengage said clip from said opening.

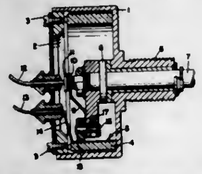
2,644,064

VARIABLE RESISTANCE DEVICE

William R. Jack and Lysle D. Cahill, Chagrin Falls, Ohio; said Cahill assignor to said Jack

Application January 2, 1952, Serial No. 264,454

7 Claims. (Cl. 201—55)



1. A variable resistance device including an insulating base having a roughened surface provided with a resistance metal structure consisting solely of resistance metal structure deposited on said roughened surface, said resistance metal structure being deposited on said roughened surface by controlled evaporation to predeterminedly obtain a constant percentage physical resistance to wear throughout its length by moving engagement therewith of said contacting member, and a movable contacting member to engage said resistance metal structure.

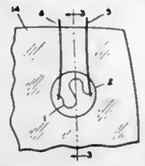
2,644,065

WINDSHIELD TEMPERATURE CONTROLLER

Joel D. Peterson, Rivervale, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Original application December 31, 1948, Serial No. 68,594. Divided and this application March 21, 1950, Serial No. 151,009

8 Claims. (Cl. 201—63)



1. A windshield comprising layers of transparent material, a conductor formed of a material having an electrical resistance which varies with changes in temperature, a transparent member formed of a clear material in which said conductor is embedded, and said member being embedded between said layers of transparent material.

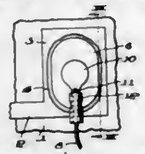
2,644,066

ELECTRICAL CONNECTOR FOR RESISTANCE ELEMENTS ON GLASS PLATES

Theodore W. Glynn, Kingsport, Tenn., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn., a corporation of New York

Application July 5, 1951, Serial No. 235,236

3 Claims. (Cl. 201—63)



1. The combination with an electric resistance element adhering to a glass plate, of an electrical connector comprising a low expansion metal disc solderered to said element and having substantially the same coefficient of expansion as the plate in the temperature range where the plate operates, and a terminal having a tongue joined to the central portion of said discs and having a lateral projection adapted to be connected to an electric wire, the coefficient of expansion of the tongue being substantially the same as that of the disc.

2,644,067

PORTABLE ELECTRIC SPOT WELDING APPARATUS

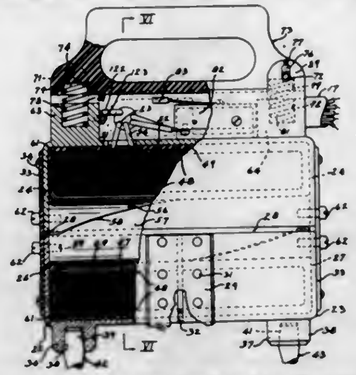
Coleman H. Watson, Birmingham, Ala., assignor of sixty per cent to Aaron Sachs, Bessemer, Ala.

Application December 3, 1949, Serial No. 130,925

7 Claims. (Cl. 219—4)

1. In an electric resistance spot welder, a welding gun embodying a shell type housing divided into three sections one of which extends from end to end of the housing and the other two of which extend partially from end to end thereof, said sections being electrically insulated from each other, a welding transformer in said housing embodying a hollow core and a primary winding on said core, a two conductor secondary winding for said transformer located in said core each of

which has one end electrically connected to the continuously extending housing section and the opposite end thereof connected to one of the other



housing sections, electrodes electrically connected to said other housing sections, and means to supply the primary with alternating current.

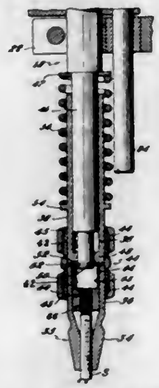
2,644,068

WELDING DEVICE

Harold J. Graham, Highland Park, Mich., assignor to Graham Manufacturing Corporation, Detroit, Mich., a corporation of Michigan

Application January 17, 1950, Serial No. 139,078

4 Claims. (Cl. 219—4)



1. In combination with a welding gun having a power operated actuator for exerting forging pressure as a stud is being welded to a work piece, a sleeve slidably mounted on the actuator, a chuck fastened to the end of said sleeve for securing the stud and having within the sleeve an anvil portion coaxially juxtaposed to the actuator to receive a direct blow therefrom, means for mounting said actuator and said chuck at a distance from said work piece to determine a given initial separation between stud and work piece, and elastic means interposed between the sleeve and the actuator for initially moving the chuck conjointly with the actuator to bring the stud into contact with the work piece, said elastic means being deformed by the movement of the actuator subsequent to the contact of the work piece by the stud and prior to imparting of the blow to the anvil portion, the amount of deformation of the elastic means being sufficient to absorb the rebound of the actuator subsequent to the blow and to maintain the chuck relatively stationary so that the stud remains in contact with the work piece during welding.

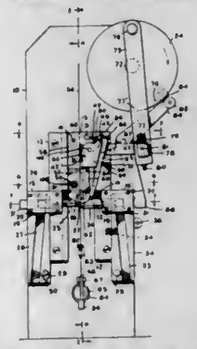
2,644,069

APPARATUS FOR CUTTING WIRE AND BUTT WELDING THE SAME TO AN ELEMENT

Albert F. Pityo, Clifton, N. J.

Application April 7, 1952, Serial No. 280,914

15 Claims. (Cl. 219—4)



1. A machine for welding wire or the like to a metal part, a support, a carriage mounted to reciprocate upon the support, wire gripping means mounted upon the carriage to move therewith and hold the wire so that its longitudinal axis extends longitudinally of the direction of movement of the carriage, electrode means mounted upon the carriage to move therewith and to contact with the wire, wire severing means mounted upon the carriage to move therewith and arranged in advance of and spaced from the electrode means, the distance between the electrode means and wire severing means being fixed so that the length of that portion of the wire extending forwardly beyond the electrode means will remain constant when the wire is severed, means to reciprocate the carriage, means for holding the metal part in alignment with the forward end of the wire, and means for connecting the electrode means with one pole of a source of current and the metal part with the opposite pole of the source of current.

2,644,070

INERT GAS BLANKETED WELDING ROD FEED

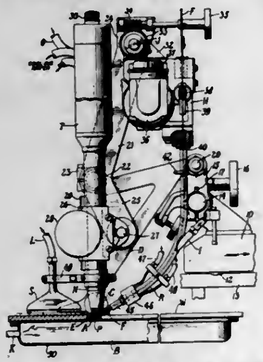
Harry T. Herbst, Belleville, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Original application September 5, 1946, Serial No. 695,012, now Patent No. 2,496,347, dated February 7, 1950. Divided and this application June 23, 1949, Serial No. 100,872

4 Claims. (Cl. 219—10)

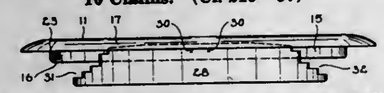
1. Method of inert gas blanketed arc welding metals which comprises maintaining an electric arc between the tip of an electrode and a welding zone of the metal to be welded, passing an annular stream of gas containing essentially inert noble monatomic gas along and concentric with the electrode to blanket the arc and molten portions of said metal during the welding operation,

advancing said welding zone and blanket along a line of weld, and advancing a separate stream of gas containing essentially inert noble monatomic gas apart from but in tandem with said first



mentioned stream on the same side of the metal being welded and distributed along the line of weld to blanket the welded joint following behind said welding zone.

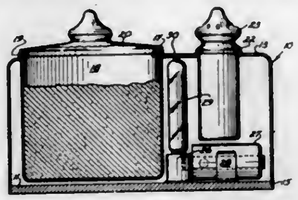
2,644,071
MOUNTING DEVICE FOR WALL OPENINGS IN ELECTRIC HEATING DEVICES
Allan P. Charbonneau, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application September 9, 1949, Serial No. 114,791
10 Claims. (Cl. 219—37)



6. The combination with a stove-top wall or the like having a circular opening formed therein, of mounting means for supporting an electric heating unit within said opening, comprising a cylindrical portion fitting into said opening, a flange extending radially outwardly about the circumference of said cylindrical portion and engaging with the outer face of said wall, and a plurality of resilient members having attachment with said cylindrical portion in spaced apart relation on the latter and respectively extending tangentially outwardly from said cylindrical portion to at least one free end, said members each having adjacent a free end an edge inclined from a point adjacent said flange outwardly with respect to said cylindrical portion which edges extend from within said wall opening into engagement with points spaced thereabout on the inner face of said wall to thereby afford centering of said means within said opening and in cooperation with said flange anchoring of said mounting means to said wall.

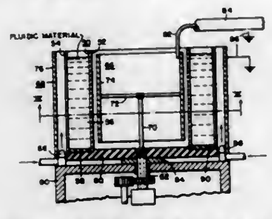
2,644,072
DISPENSER
Violet J. Aruth, Saddle River Township, N. J.
Application October 2, 1951, Serial No. 249,254
2 Claims. (Cl. 219—45)

1. In a device for dispensing hygroscopic and like materials, a hollow body having a plurality of openings in the top thereof, a plurality of containers for granular material seated on said body so as to project through said openings, an electrically energized lamp mounted in said body for heating the material in said containers, and an



inspection opening in the top of said body having a transparent covering and disposed vertically above said lamp.

2,644,073
DIELECTRIC HEATING WITH ROTATORY WORK-RECEIVING ELEMENT
Paul D. Newhouse, Salix, Iowa, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 1, 1949, Serial No. 84,881
3 Claims. (Cl. 219—47)

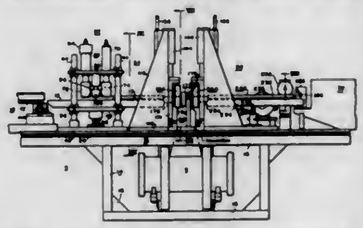


1. Dielectric heating means of a type described comprising, in combination, a pair of spaced, upstanding substantially-coaxial, stationary, relatively-insulated, metallic curved electrode-members, an annular-like container substantially coaxial with said electrode-members comprising a plurality of wall members, said container being positioned between said electrode-members, support means for rotatably supporting said container between said electrode-members and insulated therefrom, and means for applying a high-frequency voltage across said electrode-members.

2,644,074
HORIZONTAL INDUCTION HEATING SCANNER MACHINE
William L. Corteggiano and Theodore P. Kinn, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1949, Serial No. 104,942
6 Claims. (Cl. 219—47)

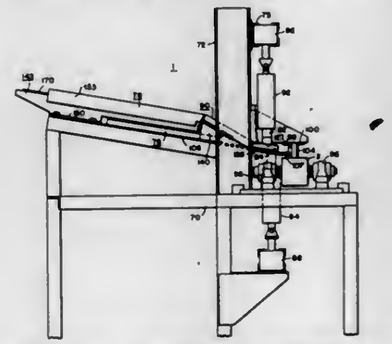
1. Heat-treating apparatus of a type described comprising, in combination, induction heating and quenching heat-treatment means having a central work-receiving opening; a headstock and a tailstock at opposite ends of said heat-treatment means and positioned closely adjacent but not in contact therewith, each comprising work-rotating rollers; a feed-in guide extending to said headstock and having a horizontal rail means providing a tunnel-like arrangement adapted to slidably hold workpieces axially end to end, said tunnel-like arrangement guide being horizontal; said heat-treatment means,

headstock, tailstock and guide being arranged to provide a substantially horizontal travel path for workpieces; and a work feeder associated



with said feed-in guide and comprising a roller means for forcing workpieces end to end along said feed-in guide.

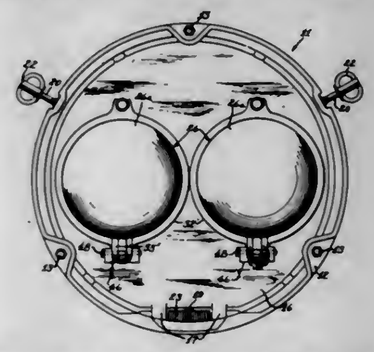
2,644,075
INDUCTION HEATING MACHINE WITH CONTROLS
William L. Corteggiano, Baltimore, Milton P. Vore, Catonsville, and John M. Edwards, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1949, Serial No. 104,944
8 Claims. (Cl. 219—47)



8. A magazine for containing workpieces to be fed into a heat-treatment apparatus for treating said workpieces, said heat-treatment apparatus including control means for controlling the operation of said heat-treatment apparatus, said magazine being adapted to receive only one type of workpiece to be treated, with said magazine comprising contact means adapted to contact said control means so as to cause said control means to operate in a predetermined manner dependent upon the type of workpieces in the magazine.

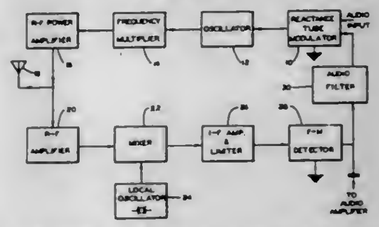
2,644,076
RETAINING MECHANISM FOR SEALED BEAM LAMP TYPE LOCOMOTIVE HEADLIGHT ASSEMBLIES
Frank X. Keegan, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application May 19, 1950, Serial No. 163,050
9 Claims. (Cl. 240—41)

2. A sealed beam lamp retaining mechanism for use with a sealed beam lamp having an annular flange portion, comprising, a support member to carry the lamp including a flange abutting portion to abut one side of the annular flange of the lamp, a clamping ring abutting the other side of the annular flange portion and a plurality of spaced spring loaded connections between said ring and said support member to resiliently load said ring to clamp said lamp between said support member and said ring, one



of said connections comprising a hinge support on said support member defining an overaized journal, a hinge pin carried by said ring and loosely journaled in said hinge support, and a spring between said hinge support and said hinge pin to resiliently load said ring, whereby said ring may be permanently hinged to said support member.

2,644,077
AUTOMATIC FREQUENCY CONTROL FOR RECEIVER-TRANSMITTER
Chester E. Sharp, Little Silver, N. J., assignor to the United States of America as represented by the Secretary of War
Application December 6, 1945, Serial No. 633,254
1 Claim. (Cl. 250—13)
(Granted under Title 35, U. S. Code (1952), sec. 266)



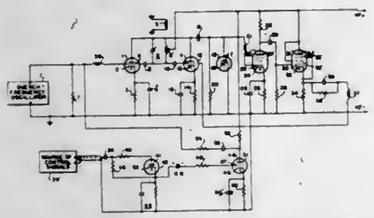
In combination, a frequency modulation transmitter and receiver both connected in parallel to a common antenna and both simultaneously operative, said transmitter comprising an oscillator, a reactance tube circuit for modulating the frequency of said oscillator; said receiver comprising a stable local oscillator, a mixer, an intermediate frequency amplifier tuned to the frequency difference of said oscillators, a frequency variation detector for demodulating the output of said amplifier, and a transducer for transforming the output of said detector into sensory signals; and means including a signal eliminating filter coupled between said detector and said reactance tube to maintain said frequency difference substantially constant.

2,644,078

WAVE SIGNAL TRANSPONDER SYSTEM

Maurice K. Taylor and Ian N. Vaughan-Jones, Hollinwood, England, assignors to Ferranti Limited, Hollinwood, England, a corporation of Great Britain

Application August 5, 1947, Serial No. 766,393
In Great Britain December 21, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 21, 1965
7 Claims. (Cl. 250—15)



5. A wave-signal transpondor system, adapted for use in association with a near-by pulse-modulation radar or interrogator-responser equipment which in each operating period thereof transmits a signal pulse of a given carrier frequency and utilizes a reply signal pulse of a related carrier frequency returned within a predetermined interval following the transmission of said first-mentioned signal pulse, comprising: pulse-modulation receiver and transmitter means including a control circuit for energizing the transmitter unit of said means in response to the reception of a signal pulse by the receiver unit of said means, said receiver unit being subject to the undesired reception of wave-signal energy resulting from the operation of said interrogator-responser equipment; an input circuit to which is applied a potential change initiated not later than the start of said each operating period of said interrogator-responser equipment; means, including a circuit network having a relatively long time constant, and having a unilaterally conductive device coupled thereto for developing in response to said potential change a control-voltage pulse having a trailing edge of extended exponential form and having a duration at least equal to said each operating period of said interrogator-responser equipment; and means for applying said control-voltage pulse to at least one of said units effectively to disable at least said one unit during said each operating period of said interrogator-responser equipment to prevent undesirable interference otherwise produced by the operation of said receiver and transmitter means in response to the reception of wave-signal energy resulting from said operation of said interrogator-responser equipment.

2,644,079

WITHDRAWN

2,644,080

SELF-QUENCH SUPERREGENERATIVE AMPLIFIER

Donald Richman, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application May 22, 1948, Serial No. 28,595
2 Claims. (Cl. 250—20)

1. A self-quench superregenerative amplifier comprising: a self-quench saturation-level type of superregenerative circuit, including a regenerator tube having a plurality of electrodes including a control electrode and a cathode and having during saturation-level intervals of said circuit a nonlinear signal-translating characteristic for a wave signal applied to said circuit for deriving therein a rectification component of saturation-level current, a signal-resonant circuit coupled to said electrodes, and an auxiliary resonant quench-voltage generating circuit coupled between a predetermined pair of said electrodes and responsive to said rectification component for generating at least the major portion of a quench voltage of variable magnitude which periodically produces alternate build-up and oscillation-decay intervals in said signal-resonant circuit and effects superregenerative amplification of said applied wave signal; said auxiliary resonant circuit including a condenser and having a resonant frequency much less than that of said signal-resonant circuit and within the range of one-third to two-thirds the average self-quench frequency of said superregenerative circuit, the product of the capacitance of said condenser and the reciprocal of the conductance appearing between said pair of electrodes during each saturation-level interval of said superregenerative circuit causing said auxiliary resonant circuit to have during said interval a time constant of damping which is shorter than the average self-quench period of said superregenreative circuit; a time-constant network coupled between said control electrode and said cathode and having a time constant at least as great as that of said each saturation-level interval of said superregenerative circuit for deriving from the control-electrode current during each quench cycle a control effect which assures the self-quenching of said superregenerative circuit; and a time-constant network, having a time constant much greater than the average self-quench period of said superregenerative circuit and coupled between said control electrode and said cathode and responsive to an electrode current of said regenerator tube during at least said saturation-level interval of said superregenerative circuit, for developing and applying to said control electrode a gain-control potential effective to stabilize the operating characteristics of said amplifier against operating conditions which tend to modify the average self-quench frequency thereof.

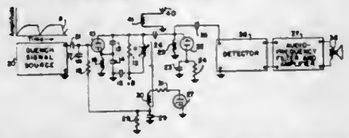


2,644,081

LOGARITHMIC-MODE SEPARATELY QUENCHED SUPERREGENERATIVE AMPLIFIER

Donald Richman, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application May 22, 1948, Serial No. 28,597
2 Claims. (Cl. 250—20)



1. A logarithmic-mode separately quenched superregenerative amplifier comprising: a regenerative oscillatory circuit; a quench signal source coupled to said regenerative circuit and external thereto and so proportioned as to supply a periodic quench signal of such magnitude and periodicity to said circuit as to effect the periodic generation in said circuit of oscillations having substantially the frequency of said regenerative circuit and characteristic of logarithmic-mode superregenerative amplification; a multi-electrode vacuum tube having a control electrode and a cathode; an amplitude-limiting damping and stabilizing arrangement including a condenser and including said control electrode and said cathode as a rectifier in a series circuit with said condenser and so coupled across said regenerative circuit that said rectifier is responsive to said oscillations and that said arrangement produces therefor a low impedance across said regenerative circuit during conductive intervals of said rectifier; a resistor included in said arrangement and connected in parallel with said condenser and having a value of resistance much greater than the conductive-direction impedance of said series circuit; said amplitude-limiting arrangement having a dynamic positive conductance at least equal to the negative conductance of said regenerative circuit at an oscillation-amplitude level less than saturation-level amplitude of said regenerative circuit which damps said regenerative circuit and limits the amplitude of oscillations to said oscillation-amplitude level; said condenser and said resistor being so proportioned as to have a time constant which is at least as great as the period of said quench signal; and means for applying a potential developed across said condenser and said resistor to said regenerative circuit to stabilize the average duration of the maximum-amplitude oscillation intervals of said regenerative circuit.

2,644,082

AUTOMATIC GAIN CONTROL SYSTEM

Jack Avins, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application February 23, 1949, Serial No. 77,774
3 Claims. (Cl. 250—20)



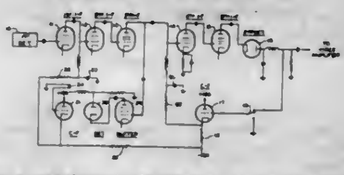
3. In a selective signal receiving and translating channel having at least one amplifying stage including in its output a signal selective network, an automatic gain control system comprising, a first parallel resonant circuit coupled to said signal selective network, a first rectifier and a first rectifier load impedance being connected in series arrangement in shunt with said parallel resonant circuit, for developing across said load a first direct-current potential having a characteristic substantially identical to the selectivity characteristic of said first parallel resonant circuit, a second parallel resonant circuit, a second rectifier and a second rectifier load impedance, said second resonant circuit, said second rectifier and said second rectifier load impedance being connected in series arrangement in shunt with said first parallel resonant circuit for developing a second direct-current potential corresponding in magnitude to the transmission characteristic of said second parallel resonant circuit, circuit means connecting the junction of said second rectifier and said second rectifier load impedance to gain control responsive elements in said channel and the junction of the first load impedance and the first rectifier being connected to a point of fixed reference potential.

2,644,083

INSTANTANEOUS AUTOMATIC GAIN CONTROL CIRCUIT

Persa R. Bell, Jr., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application February 27, 1945, Serial No. 580,019
5 Claims. (Cl. 250—20)



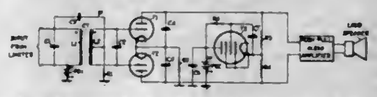
3. In a receiver including a carrier-frequency amplifier, a circuit for controlling the gain of said carrier-frequency amplifier, comprising: means for rectifying the carrier-frequency signal appearing at a given point in said amplifier; a source of direct current voltage of low impedance to alternating current and having a positive and a negative terminal; a cathode follower including an electron tube having at least an anode, a cathode and a control electrode, a resistance connecting said cathode to said negative terminal, means of negligible impedance connecting said anode to said positive terminal, and means for applying said rectified signal between said control electrode and said negative terminal; an integrating network; means for applying the output across said resistance directly to said integrating network, and means for applying the output of said integrating network as a bias to a point in said amplifier preceding said given point to reduce the gain of said amplifier between said point and said given point.

2,644,084

DISCRIMINATOR IMPROVEMENT TO REDUCE AUDIO-FREQUENCY NOISE

John C. O'Brien, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

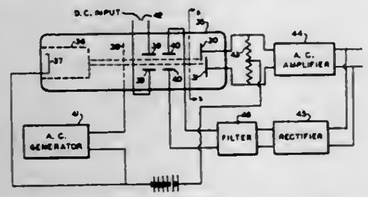
Application September 2, 1948, Serial No. 47,458
1 Claim. (Cl. 250—27)



In a discriminator organization for radio receivers adapted to the reception of frequency modulated carrier signals, a coupling transformer having resonated primary and secondary windings, said primary winding being connected to a source of frequency modulated radio signals, a connection between one terminal of said primary winding and a mid tap of said secondary winding including a capacitance adapted to pass only radio frequency signals, two triode tubes each having its control grids connected to one of the terminals of said secondary winding and having its cathodes connected together, a resistor having one end connected to said mid tap of said secondary winding and the other connected to ground to thereby provide a grid leak and to complete

the grid cathode circuit, circuit means including a resistor connected between said cathodes and ground so as to be included both in the grid-cathode circuit and in the plate-cathode circuit, a load circuit connecting said plates of said tubes and including a mid tap impedance with its mid tap being connected through a common connecting portion to a source of plate supply energy and thence to ground, said common connecting portion being independent of said grid-cathode circuit, a pentode tube having constant current characteristics, said pentode tube being connected in said common connecting portion to thereby determine that the output across said load impedance is free from extraneous variations due to amplitude variations in the signals supplied to the primary windings of said coupling transformer.

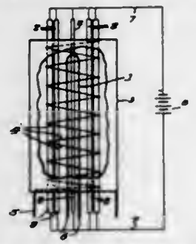
2,644,085
VOLTAGE TRANSLATING MEANS
Paul Glass, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application January 9, 1950, Serial No. 137,545
2 Claims. (Cl. 250—27)



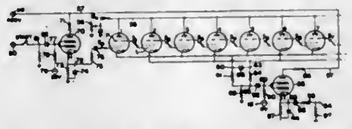
1. A system for translating direct voltage to voltage of periodically recurrent preselected wave form of amplitude proportional to magnitude of said direct voltage; said system comprising means for projecting an electron beam along a path extended in a predetermined direction, means arranged for energization by direct voltage to be translated and for deflecting said beam in opposite predetermined directions in correspondence to polarity of said voltage, a pair of anode plates respectively extended in said opposite directions from a line bisecting said path at right angles to said deflection directions, means for periodically and recurrently varying the intensity of said electron beam in correspondence with the preselected wave form, and a negative feedback circuit coupled in inverse stabilizing feedback arrangement between said anode plates and said beam-deflecting means, and comprising an input coupled across said anode plates and including filter means having an input coupled with said circuit input and an output connected with said beam-deflecting means.

2,644,086
ELECTRONIC DISCHARGE TUBE WITH CURRENT-TRAVERSED GRID SUPPORTS
Werner Müller, Bernau-Sud, Germany, assignor to Siemens & Halske, Aktiengesellschaft, a corporation of Germany
Application June 9, 1950, Serial No. 167,038
1 Claim. (Cl. 250—27)

An electronic discharge tube comprising a cathode, an anode and at least one grid therebetween, supports holding said grid, a voltage source, a means connecting such source with said supports for producing a current flow therethrough in a closed circuit in series with said voltage source so as to create magnetic fields surrounding said supports for the purpose of reducing the stream of electrons emitted by said cathode and hitting said supports.

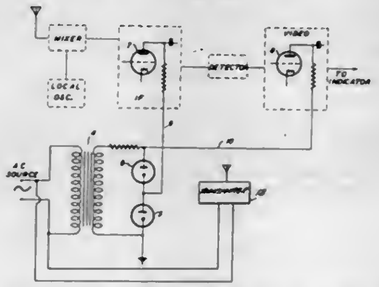


2,644,087
ELECTRONIC IMPULSE GENERATOR
Joseph R. Desch, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application December 4, 1951, Serial No. 259,858
6 Claims. (Cl. 250—27)



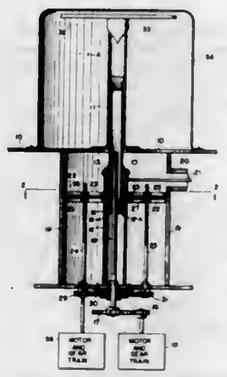
1. In an impulse generator capable of being controlled to produce a desired number of impulses, the combination of a plurality of cold-cathode tubes, each tube having at least an anode and cathode forming a main discharge gap, an igniter electrode cooperating with the cathode to form a starter gap, and a probe located in the region of discharge of the main gap and capable of exerting a control whenever conduction occurs in the main gap; a common anode potential supply for all the tubes; probe-to-igniter connections connecting the tubes in a series for automatic sequential operation, the effect of conduction on the probe in a tube of the series, as that tube conducts, causing ionization of the starter gap of the next tube of the series to initiate conduction in said next tube; means connecting the cathodes of the tubes of the series together in two groups with the cathode of every other tube of the series being connecting to form each group; a circuit connecting the cathodes of one group over a first impedance and a second impedance in series to a source of cathode potential; a circuit connecting the cathodes of the other group over a third impedance, to said second impedance and said source of cathode potential; conduction in said tubes causing potential variations across said second impedance, which is common to the two groups of tubes, to produce an output impulse each time a tube in either group conducts; extinguishing means coupling the two groups of cathodes and enabling conduction beginning in a tube whose cathode is included in one group to extinguish any previously conducting tube whose cathode is included in the other group; starting means to fire the first tube in the series to initiate the impulse generating cycle; and control means selectively operable to prevent conduction in any selected tube of the series to interrupt the sequential operation of the tubes when the required number of tubes has been fired to generate the desired number of impulses.

2,644,088
RADAR POWER SUPPLY SYSTEM
Harold S. G. Cooper, Cambridge, and Howard Louis Schultz, Wellesley, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 22, 1945, Serial No. 584,236
4 Claims. (Cl. 250—27)



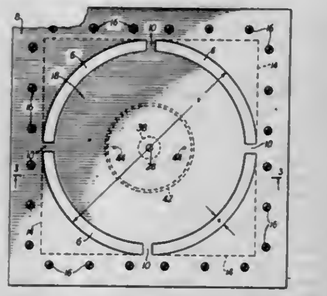
1. In a radar system transmitting pulses of energy and receiving echo reply pulses during a chosen time interval recurrently at a regular repetition rate, an electronic receiver for said echo pulses, a source of operating and gating potentials for elements of said receiver comprising a source of alternating voltage synchronous with said repetition rate, means comprising a plurality of series connected voltage regulating devices in parallel with said alternating voltage source for limiting in at least one polarity the amplitude of said voltage to a corresponding plurality of constant values during a time in each cycle corresponding to said interval, and means for utilizing said constant values of voltage to directly provide operating and gating potentials for elements in said receiver.

2,644,089
ANTENNA SYSTEM
William Roderic Bliss, Washington, D. C.
Application February 5, 1946, Serial No. 645,689
9 Claims. (Cl. 250—33)
(Granted under Title 35, U. S. Code (1952), sec. 266)



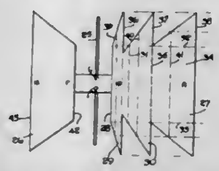
1. A tunable antenna system operable over a wide frequency range comprising; a ground plane member, a rod antenna selectively adjustable in extension above said ground plane member out to a maximum extension position, and a capacitive loading member fixedly positioned with respect to said ground plane member to have a portion proximate at least the tip of said antenna at its maximum extension position, said last named member being capacitively coupleable through said portion to said antenna to increase the electrical length of said antenna as the mechanical extension of said antenna above said ground plane member is increased.

2,644,090
RECESSED SLOT ANTENNA
Arthur Dorne, Freeport, N. Y.
Application March 5, 1948, Serial No. 13,280
12 Claims. (Cl. 250—33.63)



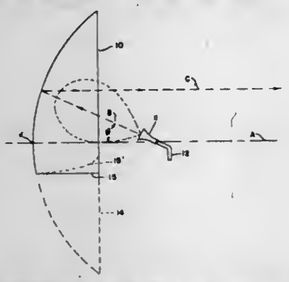
5. A high frequency antenna comprising a member having a conductive surface with a plurality of spaced arcuate slots therein, a radial transmission line coupled to said slots and having opposed parallel conductive surfaces one of which is formed by the conductive surface of said member, a transmission channel for carrying radio frequency energy, and coupling means connected to said channel and extending between said parallel conductive surfaces substantially at the center of curvature of said arcuate slots, whereby energy is coupled from said transmission channel through said cavity and radiated by said slot.

2,644,091
HIGH-FREQUENCY ANTENNA
Marvin P. Middlemark, Woodside, N. Y.
Application February 26, 1953, Serial No. 338,960
13 Claims. (Cl. 250—33.65)



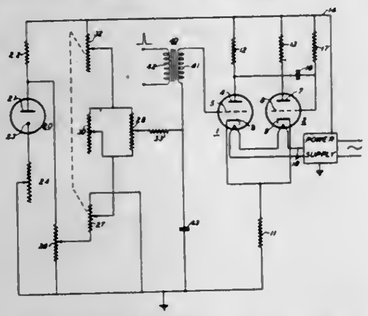
3. A high frequency antenna comprising a driven element and a series of parasitic arms, each of said arms comprising a graduated series of transverse linear portions, each portion varying gradually and uniformly in its effective transverse dimension relative to the other portions of the series, each of said arms being planar and all being in the same plane, said driven element lying in the same plane as said arms.

2,644,092
ANTENNA
Jacob R. Risser, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 30, 1945, Serial No. 613,603
2 Claims. (Cl. 250—33.65)



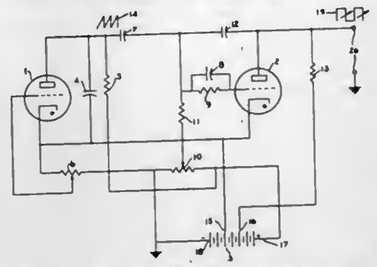
1. An antenna comprising, in combination, a reflector having a reflecting surface solely of paraboloidal shape with an edge portion removed, said portion being less than half of the normal paraboloidal reflecting surface, and means for producing an antenna pattern having a principal axis parallel to the center axis of said reflector comprising, a directional radiating element located in a fixed position at the focal point of said reflector, said element being tilted so that its axis of directivity is disposed at an angle to the normal focal axis of said reflector on the opposite side of said focal axis from said cut-off portion, whereby the line of maximum radiation of said antenna is spaced from and parallel to the focal axis of said reflector.

2,644,093
FREQUENCY STABILIZING CIRCUIT
Andrew B. Jacobsen, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 24, 1945, Serial No. 574,373
4 Claims. (Cl. 250—36)



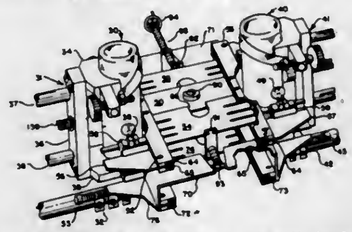
1. In combination, a multivibrator circuit operated by fluctuating voltage source and including an electronic discharge device having a control grid, said voltage source including upper and lower potentials, a glow tube connected in series between two resistors, said glow tube and said resistors being connected between said upper and lower potentials, said glow tube having at least two electrodes, a first potentiometer connected between one electrode of said glow tube and the one of said potentials most remote from said one electrode, said first potentiometer having an adjustable center tap connected through a second potentiometer to said one potential, said second potentiometer having an adjustable center tap connected through a third potentiometer and a first rheostat connected in parallel and a second rheostat connected in series to said other potential, said third potentiometer having an adjustable center tap connected to said control grid, and means coupled to said control means to cause said multivibrator to be triggered.

2,644,094
PULSE GENERATOR
William S. Douglas, Astoria, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application April 27, 1949, Serial No. 89,875
3 Claims. (Cl. 250—36)



1. In a system for generating substantially rectangular voltage pulses of predetermined frequency, the combination of a periodic wave source, a gaseous switch tube having an anode and a control grid, biasing means for said control grid, said source being connected to said control grid, said source in addition being connected to said anode through a capacitor, a resistive load in the anode circuit, said capacitor being in series with the anode resistance of said tube and said resistive load in parallel and forming a differentiating network, and means to supply direct current to said system.

2,644,095
ELECTRICAL TUNING DEVICE
John T. Wilner, Elizabeth, N. J., assignor to the United States of America as represented by the Secretary of War
Application March 29, 1946, Serial No. 657,951
9 Claims. (Cl. 250—36)



1. In a flat-plate oscillator circuit including two vacuum tubes each having at least an anode and a control grid, a first and second flat-plate assembly joining said anodes and said control grids respectively, and oriented parallelly with

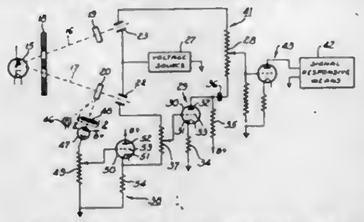
respect to each other; said assemblies respectively including, two guide members each respectively coupled to one of the respective two tube elements its assembly is intended to join, a fixed plate member connecting said two guide members, and two movable members, one on each side of said fixed plate member, said movable members being substantially rectangular in shape and provided with finger end portions for engagement with and movement in said guide members to allow adjustment of the effective areas of said assemblies; a first and second insulating connector joining corresponding movable elements of said assemblies, a drive screw having right- and left-handed threads on opposite ends, said drive screw engaging right- and left-handed threads of said first and second connectors respectively and arranged such that rotation of said drive screw moves said corresponding movable elements, and two fixed bridge means attached to opposite ends respectively of said second flat-plate assembly.

2,644,096
COLOR RADIOGRAPHY
Bernard M. Fine, Lynn, Mass., assignor to Radiograph Development Corporation, Washington, D. C., a corporation of Delaware
Application February 25, 1948, Serial No. 10,655
5 Claims. (Cl. 250—65)



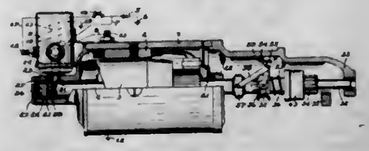
1. The method which comprises exposing an undeveloped ray sensitive photographic film having color producing elements from which a color image may be produced upon exposure and development to non-visible radiant energy selected from the group of alpha, beta, gamma, and X-rays and developing said exposed film to produce therefrom a radiograph having a developed ray-modified color image, the color being in the range from violet to red of the visible spectrum to produce color differentiation of structural features delineated by the aforementioned non-visible radiant energy.

2,644,097
ARTICLE GRADING APPARATUS
Harold D. Roop, Los Angeles, Calif., assignor to Automatic X-Ray Corporation, Los Angeles, Calif., a corporation of California
Application February 19, 1951, Serial No. 211,618
18 Claims. (Cl. 250—83.6)



1. In an apparatus of the character described, the combination of: a source of variable D. C.; means including an A. C. bridge circuit for balancing against each other two A. C. potentials of the same frequency which are out of phase by 180° so as to produce an A. C. output signal the amplitude of which is equal to the difference between the amplitudes of said A. C. potentials; means for producing in said bridge circuit two A. C. potentials of the same frequency which are out of phase by 180°; variable-gain amplifier means in said bridge circuit for varying the amplitude of one of said A. C. potentials; and means connecting said source of variable D. C. to said amplifier means for varying the gain of said amplifier means as a function of variations of said variable D. C. so as to vary the amplitude of said A. C. output signal as a function of such variations in said variable D. C.

2,644,098
ENGINE STARTER GEARING
Donald L. Miller, Horseheads, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application May 17, 1951, Serial No. 226,787
2 Claims. (Cl. 290—38)

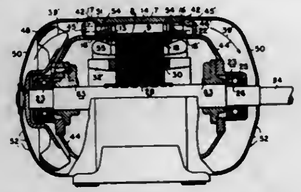


1. In a starter for internal combustion engines a motor having a fixed frame, a stationary magnetic field structure therein, and a rotatable armature, including a shaft slidably journaled in the frame; means including a spring urging the armature away from its centralized position with respect to the field, a pinion slidably journaled on the armature shaft for movement into and out of mesh with a gear of an engine to be started; a sleeve splined on the armature shaft, means connecting the sleeve to the pinion for rotation and longitudinal movement in unison, a forked lever hinged to the motor frame at one end and having a swivel connection with the sleeve at the other end, a collar swivelled on the armature shaft, and a rigid link connecting the collar to an intermediate point of said lever, the lever and link being so proportioned and arranged that the pinion is normally spaced from the engine gear by the action of said spring, and is moved into mesh with said gear when the armature is centralized with respect to the field.

2,644,099
EXPLOSION-RESISTANT MOTOR
Leon R. Ludwig, Pittsburgh, Pa., Theodore C. Fockler and William H. Formhals, Buffalo, N. Y., and Howard T. Walton, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application August 15, 1946, Serial No. 690,628, now Patent No. 2,571,907, dated October 16, 1951. Divided and this application February 28, 1951, Serial No. 213,092
4 Claims. (Cl. 310—57)

1. An explosion-resistant dynamo-electric machine comprising a strong, rigid frame-ring, a stator-core comprising a stack of stator-laminations, means for rigidly holding said laminations together in a stock, said stator-core fitting, at a plurality of spaced points about the outer periph-

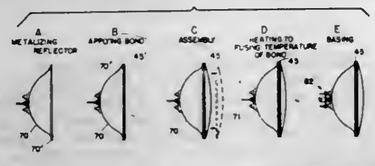
ery of the stator-laminations, within the inside of the frame-ring, the stator-laminations being spaced from the inside of the frame-ring at other peripheral points, the stator core having an imperforate, axially extending ring-member at each end thereof, each of said ring-members having an accurate, axially elongated, radial-register surface, a stator-winding carried by the stator-core, two imperforate brackets removably mounted on the frame-ring, one at each end, each imperforate bracket having no ventilating-hole therein and having an accurate, axially elongated radial-register surface co-operating with the corresponding portions of the ring-members of the stator-core, said brackets having circumferentially spaced radial projections, means for securing said projections to the stator-core holding means, bearings carried by said imperforate brackets, a rotor-member having a shaft which is supported by said bearings and having internally mounted fan-means for at least ventilating the end-turns of the stator-winding at both ends of the stator-core, said rotor-member further having externally mounted fan-means, removably mounted on the shaft on the outside of at least one of the bearings, for causing a ventilating gas to flow axially within the space between the inside of the frame-ring and the periphery of the stator-laminations, and two hoods, each having a ventilating-hole and having a peripheral part which makes a substantially continuous fit at its end of the frame-ring.



2,644,100
SEALED LIGHTING UNIT AND METHOD OF MANUFACTURE

Reginald K. Braunsdorff, East Orange, N. J., assignor to Tung-Sol Electric Inc., a corporation of Delaware

Application December 28, 1945, Serial No. 637,684
4 Claims. (Cl. 313—115)

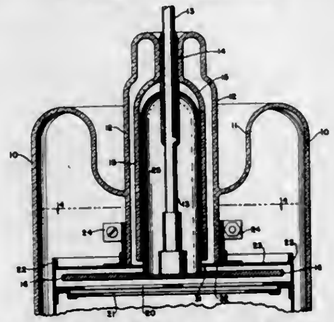


1. A lamp of the character set forth comprising a reflector element of soft glass, said element having a filament locating plane surface at right angles to the axis thereof and centrally thereof on its rearward part and a mount having a pre-focused filament and a soft glass plate having a plane surface corresponding to said locating plane surface on the reflector element, said plate being joined and sealed to the reflector element against its plane surface by means of a ceramic frit seal.

2,644,101
ANODE INSULATING STRUCTURE

Ward W. Watrous, Jr., Chatham, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey

Application December 29, 1950, Serial No. 203,439
5 Claims. (Cl. 313—199)

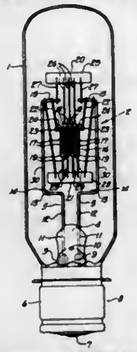


1. An anode insulating structure for mounting an anode in a gaseous discharge device comprising, a lead-in conductor for the anode, a cylindrical conducting guard secured to the anode and surrounding the lead-in conductor, an inner cylindrical insulator surrounding the conducting guard, an outer cylindrical insulator surrounding the inner cylindrical insulator, and mounting means for securing an electrode on the outer cylindrical insulator.

2,644,102
INCANDESCENT LAMP MOUNT AND MANUFACTURE THEREOF

Melvin L. Stone, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Application August 10, 1950, Serial No. 178,697
6 Claims. (Cl. 313—276)

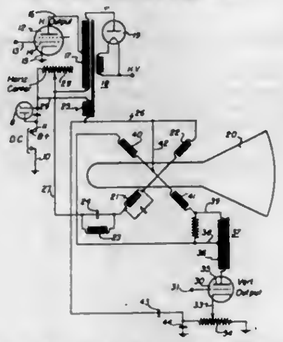


1. An electric lamp comprising a sealed envelope, a pair of rigid lead-in conductors sealed into said envelope and extending thereinto in spaced side-by-side relation, a filament mounted in said envelope between and connected at its ends to said conductors, and a pair of insulative support members located respectively above and below said filament and supporting it intermediate the ends thereof, said support members being fastened across said conductors with their points of attachment to respective conductors located closely adjacent each other.

2,644,103
TELEVISION DEFLECTION SYSTEM

George W. Fyler, Lombard, and Lowell S. Kongable, La Grange, Ill., assignors to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application December 11, 1951, Serial No. 260,996
15 Claims. (Cl. 315—24)



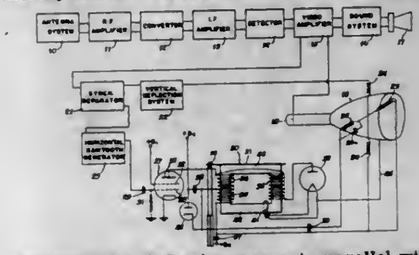
1. In a deflection system for cathode ray tubes of the magnetically deflected type and having two pairs of deflection coils, each pair of deflection coils being adapted to deflect the cathode ray in a direction at right angles to the deflection by the other pair of deflection coils, the cathode ray centering circuit for passing an adjustable amount of direct current in either direction through one pair of said deflection coils including in combination, a source of direct current, impedance means having fixed resistance, an adjustable resistance, a first electron tube, a second electron tube, means connecting the internal resistances of each of said electron tubes in series with said one pair of deflection coils and said source of direct current, said connecting means also connecting said adjustable resistance in series with the internal resistance of said first electron tube and said source of direct current, said connecting means further connecting said impedance means having fixed resistance in series with the internal resistance of said second electron tube and said source of direct current, to thereby form a resistance bridge circuit having input terminals connected across the source of direct current, said one pair of deflection coils having a first terminal connected between said adjustable resistance and said first tube and a second terminal connected between said impedance and said second tube and forming the output circuit of said bridge circuit whereby adjustment of said adjustable resistance to unbalance the bridge circuit in either direction causes an adjustable amount of direct current to flow through said one pair of deflection coils in either direction for centering the deflection of the cathode ray.

2,644,104
TELEVISION CIRCUIT

George W. Fyler and Lawrence J. Mattingly, Lombard, Ill., assignors to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application July 10, 1951, Serial No. 235,945
15 Claims. (Cl. 315—27)

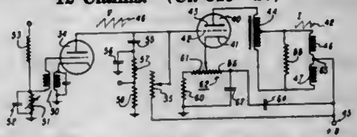
1. A cathode ray beam deflecting circuit of the type which includes a sawtooth current generator for delivering cyclically varying current to electromagnetic deflection means associated with a cathode ray tube, and which also includes rectifier means for delivering accelerating voltage to an accelerating anode of said tube, said circuit including an autotransformer coupling choke unit having a magnetic core and first and second winding sections in spaced relation thereon, said first winding section being connected to the sawtooth current generator to be energized thereby and serving as a primary winding, means connecting the deflection means in parallel with at least a portion of said first winding section for providing sawtooth current waves therein, said second winding section being connected in series with said first winding section and being coupled to the rectifier means, and adjusting means for varying the magnetic reluctance of said core adjacent one of said winding sections.



2,644,105
TELEVISION CIRCUIT

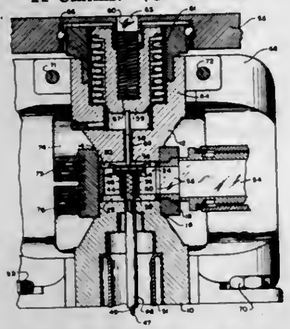
George W. Fyler, Lombard, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application January 30, 1952, Serial No. 269,049
12 Claims. (Cl. 315—27)



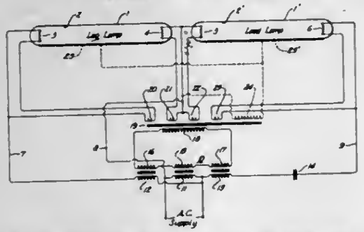
1. In a television receiver having a magnetically deflected picture tube, the vertical deflection system including in combination, a pair of series connected vertical deflection coils, a vertical deflection power output transformer having input and output terminals, a power output tube having cathode, grid and plate electrodes, means applying a vertical deflection input voltage across the grid and cathode electrodes of said tube, means connecting the plate electrode of said tube with the input terminals of said transformer, means connecting the output terminal of said transformer with said deflection coils to cause a deflection current to flow therein in accordance with the waveform of said input deflection voltage, linearity control means providing a combined adjustable bias and adjustable degeneration control for said tube, said linearity control means including a potentiometer having a pair of fixed terminal ends and an adjustable tap connected to said cathode electrode, resistance means connected to one fixed terminal end of said potentiometer and to a reference potential and forming with said potentiometer an adjustable cathode bias resistance for said tube, a negative feedback condenser connected between said series connected deflection coils and the other fixed terminal end of said potentiometer, whereby adjustment of said potentiometer tap causes a simultaneous change of bias and degeneration for said tube in a manner to vary the waveform of output current in said deflection coils.

2,644,106
TUNING AND STRAPPING MECHANISM FOR MAGNETRONS
Arnold T. Nordsieck, New York, N. Y., assignor to the United States of America as represented by the Secretary of War
Application April 30, 1946, Serial No. 666,000
11 Claims. (Cl. 315—40)



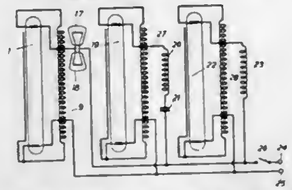
1. An ultra-high frequency magnetron multi-resonator anode with a plurality of segments, a variable condenser within said magnetron, one plate of said condenser being connected to only alternate segments of said anode, and the other plate of said condenser being connected only to the remaining segments of said anode, and adjustable means connected to said condenser for moving one of said plates relative to the other to vary the capacitance of said condenser and adjust the frequency of the operating mode of said magnetron.

2,644,107
PREHEAT NEUTRALIZING CIRCUIT FOR FLUORESCENT LAMPS
Raymond L. Keiffer, Chagrin Falls, and Eugene Lemmers, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application November 23, 1949, Serial No. 129,158
5 Claims. (Cl. 315—95)



1. Apparatus for starting and operating electric discharge devices of the type including a pair of thermionic electrodes, comprising: a primary inductance adapted for connection to an alternating current supply, and a pair of secondary inductances connected to said primary inductance for limiting the current supplied to a lagging and to a leading power factor load circuit each including one of said devices; three tertiary windings, separate ones of said tertiary windings being coupled to said primary and secondary inductances, said tertiary windings being connected in series and poled for producing a resultant voltage the magnitude of which varies with the current conducted by said secondary inductances, and auxiliary transforming means comprising a primary winding connected across said tertiary windings in series and also including a plurality of secondary windings adapted to be connected to the electrodes of said discharge devices for providing heating current thereto.

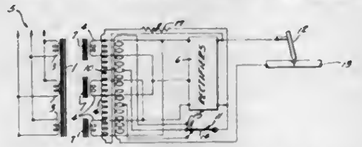
2,644,108
CIRCUIT FOR ELECTRIC DISCHARGE APPARATUS
André Claude, Paris, France, assignor to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva, Paris, France, a company of France
Application December 14, 1950, Serial No. 200,800
In France December 20, 1949
1 Claim. (Cl. 315—97)



A circuit for energizing three electric discharge apparatus provided with filamentary electrodes, of the type in which the starting of the discharge apparatus comprises preheating the electrodes of said apparatus, comprising, a source of alternating current, a first, a second and a third step-down transformer, each having a primary and two secondary windings, a first, a second and a third electric discharge apparatus with filamentary electrodes, said apparatus having similar electric characteristics and being energized by said source of current through separate stabilizing means, the primary windings of said step-down transformers being respectively energized from said source through said stabilizing means and the secondary windings of said transformers being connected respectively to the filamentary electrodes of that discharge apparatus which is energized through that ballasting means through which is energized the primary winding of the corresponding transformer, the stabilizing means for the first discharge apparatus being a reactance coil, the stabilizing means for the second discharge apparatus comprising a reactance coil and a condenser connected in series, the impedances of these two reactance coils being approximately equal, each of said impedances being, at the frequency of the source of current, approximately equal in absolute value to half that of said condenser, and the ballasting means for the third discharge apparatus being a group of at least two incandescent electric lamps of the type having a metallic filament, connected in parallel, each of said incandescent lamps being designed to work, during the normal working of the electric discharge apparatus, substantially at its conventional rated load.

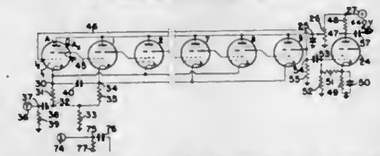
2,644,109
VARIABLE CURRENT WELDING TRANSFORMER
Allan C. Mulder, Appleton, Wis., assignor to Miller Electric Manufacturing Co., Appleton, Wis., a corporation of Wisconsin
Application October 2, 1950, Serial No. 187,944
11 Claims. (Cl. 315—141)

5. In an arc welding system, a transformer core formed of magnetizable material, a primary winding arranged on the core and connected to a source of alternating current, a secondary winding arranged on the core in inductive relation with said primary and connected through a rectifier to an arc welding electrode and to the work to be welded, a magnetizable control core linked with said secondary independent of



said primary, a control coil wound on said control core and connected to said rectifier for feedback therefrom, and means to control the amount of feed-back to said control coil and consequently the degree of saturation of said control core, whereby the impedance in the transformer secondary circuit is varied to control the current output to said welding electrode.

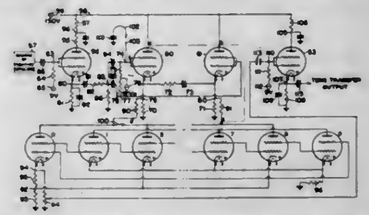
2,644,110
ELECTRONIC COUNTER
Joseph R. Desch, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application February 20, 1952, Serial No. 272,637
20 Claims. (Cl. 315—166)



1. In a device of the class described, a plurality of electrodes forming a plurality of electron discharge paths in a gaseous medium; means connecting the discharge paths into an operational sequence, each connection being a floating connection extending from a discharge path to the next discharge path in the sequence and enabling the discharge in one path to prepare the next discharge path in the sequence for discharge in response to an input impulse; an operating potential supply for the discharge paths; circuits connecting the electrodes which form the discharge paths to the operating potential supply and into two groups for mutual extinguishing action between groups whereby conduction beginning in a discharge path of one group will extinguish conduction in a conducting discharge path of the other group, each of said groups containing alternate discharge paths of said sequence and the circuit of each group containing impedance which is common to the paths of the group and from which the extinguishing action is derived; and means to apply input impulses to the discharge paths to cause conduction in the prepared paths one after another in sequence.

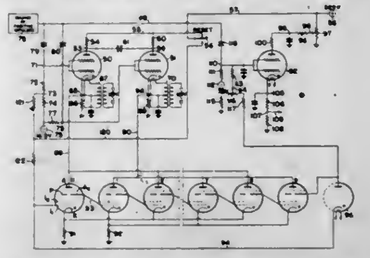
2,644,111
ELECTRONIC COUNTER
Joseph R. Desch, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application December 4, 1951, Serial No. 259,856
14 Claims. (Cl. 315—201)

1. In a device of the class described, the combination of a first plurality of electron tubes; a second plurality of electron tubes; said tubes being of the negative-grid thyratron type, each having at least an anode, a cathode, a probe electrode, and a control electrode; a first common anode-cathode potential supply connected to the first plurality of tubes and forming them into a first operational group; a second common anode-cathode potential supply connected to the second plurality of tubes and forming them into a second operational group; means to control said first and second potential supplies to provide a high anode potential to one group to cause conduction in a tube of that group and at the same time a low anode potential to the other group to prevent conduction in a tube of that group, said control means being operable to reverse the high and low



condition of the anode potential supplied to the groups each time an impulse is received; means connecting all the tubes into an operational series, using tubes from the first and second groups alternately, each connection extending directly from the probe electrode of a tube in one group to the control electrode of a tube in the other group; and input means for causing an operation of the potential supply control means to reverse the high and low conditions of the anode potential supplied to the groups; the supplying of anode-cathode potentials in two groups and the varying of their anode potentials in response to impulses together with the serial connections between tubes, causing the tubes to be operated one at a time in sequence.

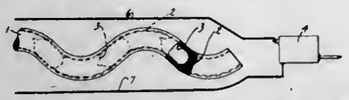
2,644,112
ELECTRONIC COUNTER
Joseph R. Desch, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application December 4, 1951, Serial No. 259,857
21 Claims. (Cl. 315—201)



1. In a device of the class described, the combination of a first plurality of electron discharge paths; a second plurality of electron discharge paths; a first operating potential supply connected to the first plurality of discharge paths and forming them into a first operational group; a second operating potential supply connected to the second plurality of discharge paths and

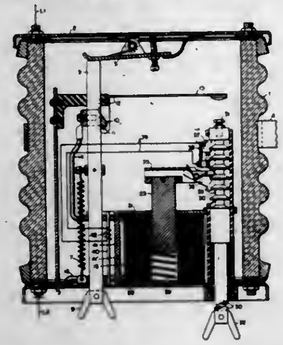
forming them into a second operational group; means connecting the discharge paths into an operational series, for sequential step-by-step operation, each series connection extending from a discharge path in one group to a discharge path in the other group and enabling the discharge in the path in one group to prepare the next path in the series, which is in the other group, for discharge therein; control means operable alternately to one and the other of two conditions and in one condition being effective to control the first and second operating potential supplies to provide a potential to one group to cause conduction in a discharge path in that group and at the same time to provide potential to the other group which will not support conduction in any discharge path in that group and in the other condition reversing the potentials supplied to the two groups, each reversal of the potentials supplied to the groups causing a step of advance in the operating discharge path of the series.

2,644,113
LUMINOUS BODY
Walter V. Etzkorn, Oakland, Calif.
Application May 22, 1950, Serial No. 163,381
8 Claims. (Cl. 315—228)



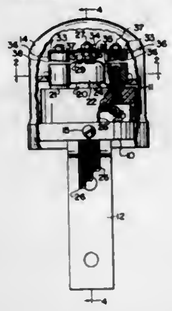
1. An elongated plastic tube of light transmitting material having separated and unconnected volumes of luminous gas confined therein and high-frequency electrical means for illuminating the gas, the tube being flexible and bendable throughout the length thereof to form desired designs and being of uniform transmittance throughout the length thereof.

2,644,114
LINE-SECTIONALIZER INTEGRATOR
Andrew W. Edwards and James M. Wallace, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 21, 1950, Serial No. 175,276
27 Claims. (Cl. 317—22)



1. An integrator-mechanism comprising: an electromagnet-device having a magnetizing coil and having an armature which is movable from a predetermined unattracted position to a predetermined attracted position to which it is attracted by the magnetic flux produced by a predetermined overcurrent in the coil; a movable counter-member which is biased toward an inoperative position; a one-way drive-mechanism for imparting one step of a step-by-step advance to said counter-member each time said armature moves in one direction of its aforesaid movement; a holding-detent for at times holding said counter-member in advanced positions; and a current-responsive thermal time-delay device operable independently of the armature for at times making said holding-detent inoperative.

2,644,115
HIGH-VOLTAGE ARRESTER
Roy G. Sands, Waukegan, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 26, 1951, Serial No. 208,011
4 Claims. (Cl. 317—66)

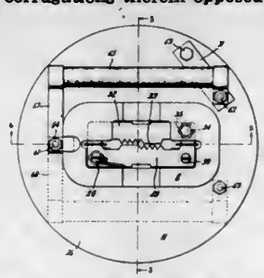


3. In a high voltage current protector, a centrally disposed first electrode, a plurality of second electrodes disposed about said first electrode in spaced apart relation and each of said second electrodes having a surface in close proximity with a side of said first electrode to form a plurality of first high voltage discharge gaps from said plurality of second electrodes to said first electrode, a bi-metallic element mounted on said first electrode and having a plurality of projections, a plurality of third electrodes, one of said third electrodes mounted on each of said projections, each third electrode in close proximity with respective ones of said second electrodes to form a plurality of second high voltage discharge gaps, each projection of said bi-metallic element flexing responsive to the heat generated by its corresponding second high voltage gap to move said corresponding third electrode into contact with said associated second electrode whereby said last mentioned high voltage discharge gap is closed.

2,644,116
AIR GAP CONSTRUCTION
Arthur A. Olsen, Pittsfield, Mass., and Wilfred F. Skeats, Lansdowne, Pa., assignors to General Electric Company, a corporation of New York
Application September 21, 1950, Serial No. 185,994
16 Claims. (Cl. 317—70)

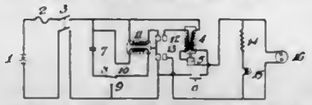
1. In an air gap construction, the combination of an arcing electrode comprising a pair of elongated and adjacently positioned plates of conducting material, each of said plates having a single corrugation therein positioned intermediate opposite longitudinally extending edges thereof and extending longitudinally the entire long

length of said plates, said plates being disposed with the corrugations therein opposed and mag-



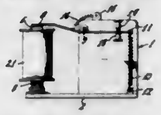
netic means to move the terminal of an arc longitudinally along each of said corrugations.

2,644,117
BLASTING MACHINE
Robert A. Schmitt and James P. Swed, Gibbstown, and Charles P. Williams, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 2, 1952, Serial No. 296,872
5 Claims. (Cl. 317—80)



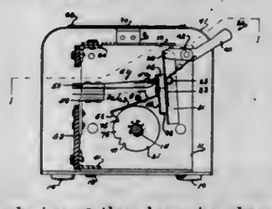
1. A blasting machine comprising a firing circuit, means for connecting said firing circuit to a source of electrical energy, a condenser circuit containing a condenser, a dual coil relay having one coil in series with said firing circuit adjusted to maintain said relay in an energized condition when a current of a predetermined magnitude flows in said firing circuit, and a second coil adjusted to momentarily actuate said relay from the energy of a condenser discharge, switch means which in one position connects the condenser circuit in parallel with the firing circuit and in the second position in series with the second coil of said relay, circuit closing elements connected in series with said firing circuit and actuated by said relay, and electrical means for opening said firing circuit if the current exceeds a predetermined magnitude.

2,644,118
RELAY
John O. Hruby, Jr., Burbank, Calif., assignor to Hydraulic Research and Manufacturing Company, Burbank, Calif., a corporation of California
Application January 29, 1951, Serial No. 208,302
2 Claims. (Cl. 317—131)



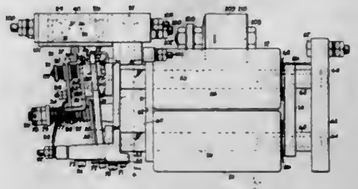
1. A relay comprising a U-shaped magnetic core having opposite legs, a winding on one of said legs and a substantially identical winding in magnetic opposition on the other of said legs, said windings having substantially the same temperature coefficient, an armature having opposite ends and an intermediate pivot at one side of said core, one end of said armature having a magnetic portion bridging the ends of said legs, the other end of said armature having a contact, spring means connected to said armature and biasing said armature to one position, a source of current, a circuit connecting one of said windings in shunt to said source, another circuit connecting said other winding in shunt to said source, said other circuit comprising a switch and connections controlled thereby for changing the current in said other winding from a value sufficient to overcome said spring to a value insufficient to overcome said spring, whereby the operation of said armature is substantially independent of temperature variation of said windings and voltage fluctuation of said source of current.

2,644,119
CAM CONTROLLED DEVICE
John L. Harris, Whitefish Bay, Wis.
Application July 27, 1949, Serial No. 107,109
12 Claims. (Cl. 317—141)



1. In a device of the character described, the combination of, a cam shaft having a plurality of cams of different contour, drive means for the cam shaft, a cam follower shaft having a series of cam followers arranged to be actuated by said cams, a selector shaft adjacent said cam followers, and a plurality of independently operable selector members mounted on said selector shaft and arranged to lift certain of said cam followers off their respective cams.

2,644,120
RAILWAY SWITCH MACHINE CONTROLLER
Charles L. Swanton, North Chili, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 5, 1949, Serial No. 91,449
5 Claims. (Cl. 317—187)



1. A circuit controller comprising in combination two substantially adjoining U-shaped electromagnetic structures, armatures for the respective structures disposed to be attracted about respective pivot points in substantially the same plane by heir associated structures, an interlocking motion plate having a fixed pivot point at its center and having its ends operatively engaging the respective armatures, the pivot point of said motion plate being substantially midway between the two armatures, whereby the attraction of

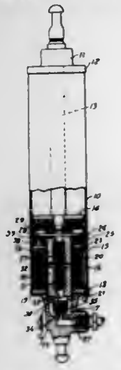
one armature is effective through said motion plate to move the other armature in a direction away from the cooperating electromagnetic structure, a pressure plate adjoining said armatures, said pressure plate being pivoted to permit motion of the plate in a direction to promote motion of the armatures toward their associated electromagnetic structures, and compression spring biasing means acting against said pressure plate to normally bias said pressure plate against said armatures, said biasing means being effective to exert substantially equal pressure against each of said armatures in a direction toward the associated electromagnetic structures when both electromagnetic structures are deenergized, and said biasing means being more fully compressed by the actuation of said motion plate about its pivot point whenever either of said armatures is attracted to its associated electromagnetic structure, whereby an armature when attracted to its associated electromagnetic structure is spring biased away from its associated electromagnetic structure by said biasing means acting through said pressure plate and through said motion plate while the other of said armatures is biased by substantially equal pressure applied for movement in the opposite direction, and whereby said spring biasing means in acting through said pressure plate and through said motion plate biases the two armatures in the same direction to an extent limited by the fixed pivot of said motion plate when the electromagnets are both deenergized.

2,644,121

SOLENOID CONTROLLED VALVE UNIT

John B. Parsons, Maumee, Ohio

Application June 16, 1949, Serial No. 99,516
3 Claims. (Cl. 317—191)



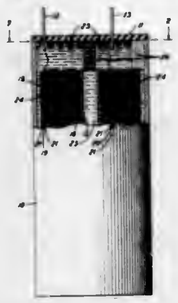
1. A seal for isolating a portion of a solenoid controlled valve unit disposed in one end of a cylinder from the remainder of the cylinder, wherein said unit includes a stationary sleeve of lesser diameter than said cylinder coaxially disposed therein and wherein the portion of said unit to be isolated includes a solenoid winding disposed between the exterior of said sleeve and the interior of said cylinder, said seal comprising a pair of spaced metallic washers surrounding said sleeve and adapted to be disposed adjacent one end of said winding, a rubber-like annulus disposed between said washers, the inner and outer diameters of said annulus sealingly engageable with the exterior and interior of said sleeve and cylinder, respectively, and a plurality of headed rivets extending axially through said annulus, the heads of said rivets being disposed between one face of the annulus and one of said washers, the shank ends of said rivets projecting beyond the opposite face of said annulus a slight distance and engaging the other of said washers, whereby to prevent axially compressive deformation of said annulus by said washers.

2,644,122

CAPACITOR

Edward M. Boardman, Mountain Lakes, and Merwyn C. Wooley, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 17, 1950, Serial No. 162,568
1 Claim. (Cl. 317—256)



An electrical condenser comprising a tubular condenser unit including alternate turns of conductive and of dielectric material wound into a cylinder, a tubular, axial support of insulation within the cylinder, and cushioned layers of dielectric material between the cylinder and the coaxial support; a cylindrical container for said unit of greater axial and radial extent than the unit, spacing means between the ends of the container and the respective ends of the condenser unit, one of said spacing means comprising a flat, laminated, convoluted member of insulation, and a liquid dielectric in the voids of the condenser unit, the spacers, and the container.

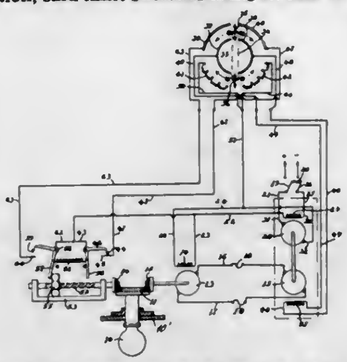
2,644,123

ACOUSTICAL APPARATUS

Philip T. Russell, Mount Rainier, Md.

Application February 1, 1939, Serial No. 253,980
1 Claim. (Cl. 318—158)
(Granted under Title 35, U. S. Code (1952), sec. 266)

An acoustical apparatus comprising a rotatable member extending through the hull of a vessel for transmitting and receiving sound energy subaqueously, electrical conductors connected directly to said member to eliminate transient sounds, training gearing for rotating said member including a bevel gear, a direct current reversible motor, means connecting said motor to said training gearing for driving said training gearing and rotatable member, a generator including a field winding, said generator having connections for supplying reversible electric power to said motor, means for driving said generator, a pair of circuits each including said field winding, a training control switch for controlling the speed of said motor, said training control switch having a central deenergized position and being movable to one side thereof for connecting said circuits to a pair of poles of a source of direct current and to said field winding, and movable to the other side thereof to connect said poles in reverse to said field winding, limit means comprising a reciprocable travelling member and a bevel pinion for moving said travelling member, said bevel pinion engaging said bevel gear, a biased limit switch at opposite sides of said travelling member, each limit switch having a normal position and operable from said normal position by said travelling member when said travelling member is at a limit position, each of said limit switches returning to normal position when said travelling member leaves said limit position, said limit switches being in said circuits,



said circuits being connected so that said training switch solely controls said field winding in all positions of said travelling member, except its limit positions, to move said motor in either direction by selected amounts at any time, said circuits being connected whereby whenever said field winding is deenergized electric power will then flow from said motor to said generator to effect dynamic braking in said motor to immediately arrest the rotation of said motor and said member at the desired point and to prevent said electrical conductors leading to said member from becoming twisted and broken.

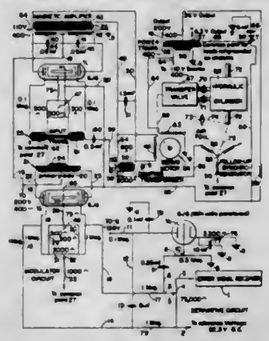
2,644,124

400 CYCLE ELECTROHYDRAULIC STEERING SYSTEM FOR GUIDED MISSILES

John H. Broadbent, Washington, D. C., and Harold E. Ober, Takoma Park, Md., assignors to the United States of America as represented by the Secretary of the Navy

Application January 23, 1948, Serial No. 3,844
7 Claims. (Cl. 318—207)

1. In a control servo-system having a two-phase alternating current motor including a rotor and fixed and variable phase windings, means for energizing said motor, including a constant voltage alternating current source connected to said fixed phase winding of said motor, a magnetic amplifier having an output winding connected to said variable phase winding of said motor, and phase adjusting means also connected to said variable phase winding of said motor, said magnetic amplifier including an output transformer having a direct current winding superimposed on its alternating current winding; in combination, a multi-stage electronic amplifier having an interstage transformer, said electronic amplifier having its output side connected to said direct current winding of said magnetic amplifier, said electronic amplifier being driven by difference in an error signal voltage and a reference voltage, a derivative circuit operatively associated with the input side of said electronic amplifier, said circuit including a thermionic tube having an anode, a control electrode and a capacitor connected in series with said control electrode, an error signal source for determining an error signal voltage, a circuit for supplying said error signal voltage to said derivative circuit, gain control means feeding a desired fractional part of said



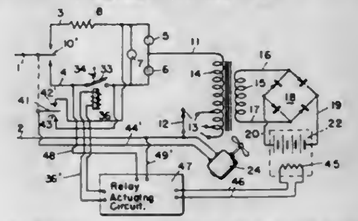
error signal voltage to the control electrode of said thermionic tube from said capacitor, a load connected to the anode of said thermionic tube to provide an output respresentative of the variations of said error signal voltage, and a connection to superimpose said variations on said reference voltage in order to feed such output to the input side of said electronic amplifier.

2,644,125

APPARATUS FOR CHARGING BATTERIES

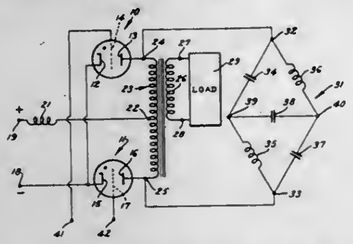
Lewis A. Mediar, Oreland, Pa., assignor, by mesne assignments, to Fox Products Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 3, 1949, Serial No. 125,324
3 Claims. (Cl. 320—22)



1. A battery charger comprising a transformer having primary and secondary windings, a pair of power leads, means including a manually operated switch, shiftable to either one of two positions, for connecting said leads to said primary winding so as to selectively provide either a relatively high resistance or a relatively low resistance input circuit, as desired, a thermally-controlled switch, responsive to the temperature of the battery being charged, in said low resistance circuit only, means for supplying rectified current from the secondary of said transformer to the battery to be charged, a fan motor, means for supplying said motor with current when either said high resistance or said low resistance input circuit is being utilized, and means for momentarily interrupting the circuit of said fan motor whenever said manually operated switch is shifted from one position to the other.

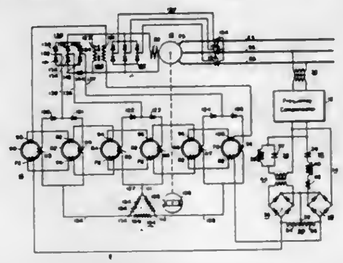
2,644,126
INVERTER
Ernest Levy, Jr., Bronx, N. Y., assignor to Sorensen & Company, Inc., Stamford, Conn., a corporation of Connecticut
Application April 3, 1951, Serial No. 219,107
4 Claims. (Cl. 321—36)



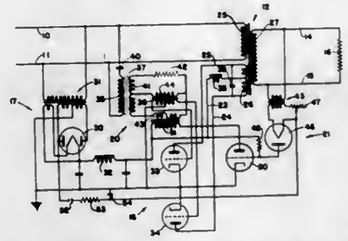
4. An electronic inverter for converting direct current to alternating current the frequency of which may be varied over a relatively wide range without changing circuit components, said inverter including a transformer having a primary and a secondary, means for connecting one terminal of a source of direct current to substantially the center of said primary, electronic-tube switching means for alternately connecting the respective ends of said primary to the other terminal of said source of direct current, means for synchronizing said electronic-tube switching means at a predetermined frequency, a Wheatstone type bridge network constructed so that the arms thereof which form a closed loop are alternately a first capacitance, a first inductance, a second capacitance and a second inductance, a third capacitance connected across the output terminals of said bridge, one side of said third capacitance being connected to the junction of said first capacitance and said first inductance, the other side of said third capacitance being connected to the junction of said second capacitance and said second inductance, the pair of input terminals formed by the junction of said first capacitance and said second inductance and the junction of said first inductance and said second capacitance are connected across said transformer, whereby the reactance of said bridge network is capacitive and variable with frequency whereby if said predetermined frequency is changed the magnitude of the capacitive reactance of said bridge network will vary in the same direction.

2,644,127
REGULATING SYSTEM
Schuyler L. Bradley, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 22, 1951, Serial No. 262,973
9 Claims. (Cl. 322—25)

1. In a regulating system for maintaining the output voltage of an alternating-current generator, having a field winding, substantially constant, the combination comprising, a permanent magnet exciter, a voltage reference network responsive to the output of the alternating-current generator, a rectifier having input and output terminals, the output terminals being electrically connected to the field winding of the generator, and a magnetic amplifier comprising a plurality of alternating-current windings which receive alternating-current energy from the output of the permanent magnet exciter and pass alternating current to the input terminals of the rectifier, and at least one control winding connected in circuit relation with the output of the voltage reference network.



2,644,128
VOLTAGE REGULATOR
William H. Henrich, East Norwalk, Conn., assignor to Sorensen & Company, Inc., Stamford, Conn.
Application May 9, 1952, Serial No. 286,980
8 Claims. (Cl. 323—45)

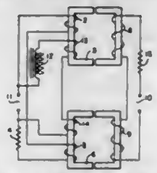


1. A voltage regulator for an alternating current supply system comprising; a transformer having a first and second primary winding and a secondary winding, said first primary winding connected to the alternating current supply and said secondary winding connected to a load; a rectifier filter circuit connected to said supply for providing a source of direct current power; an inverter system connected to the source of direct current for providing alternating current power which is connected to the second primary winding; a phase changing circuit connected between the alternating current supply and a control circuit in the inverter system for controlling the frequency and varying the phase of the inverter power output; and a control circuit connected between the load and the phase changing circuit which changes the phase of the inverter output in response to changes in the voltage of the load.

2,644,129
SEPARATE MAGNETIZATION OF MAGNETIC AMPLIFIERS
Robert A. Ramey, Washington, D. C.
Application December 27, 1950, Serial No. 202,999
4 Claims. (Cl. 323—89)
(Granted under Title 35, U. S. Code (1952), sec. 266)

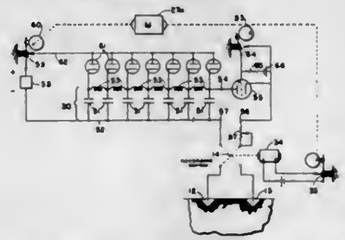
1. A magnetic amplifier comprising a pair of saturable magnetic cores having respective air-

gaps therein, an alternating-current load winding and a direct current control winding wound



on each of said cores, the load windings being connected in series and the control windings being connected in series opposition, a low inductance tertiary winding wound on each of said cores for reducing to a minimum the magnetizing current which flows through said load windings, said tertiary windings being connected in series and continuously energized during amplifier operation, and a relatively high inductance connected in series with said tertiary windings.

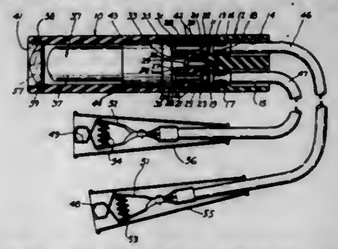
2,644,130
SQUARE WAVE PULSE GENERATING SYSTEM
Gerald C. Summers, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application January 24, 1949, Serial No. 72,363
19 Claims. (Cl. 324—1)



1. A system for generating spaced low-frequency current pulses of alternating polarity which comprises a source of spaced unidirectional current pulses, a pair of current electrodes, means intermediate said source and said electrodes for reversing the connections therebetween, and means for actuating said reversing means in the interval between spaced unidirectional pulses whereby pulses of one polarity and then of a reverse polarity flow through said electrodes.

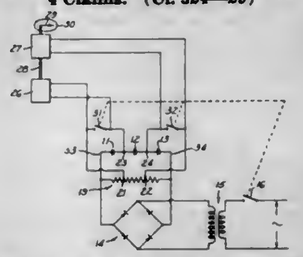
2,644,131
TIMING INDICATOR FOR INTERNAL-COMBUSTION ENGINES
George M. Walraven and William R. Elwell, Kenosha, Wis., assignors to Snap-On Tools Corporation, Kenosha, Wis., a corporation of Delaware
Application October 1, 1948, Serial No. 52,268
1 Claim. (Cl. 324—17)

In an engine timing indicator, the combination with a cylindrical casing having sectional complemental socket and light encasing parts, of spring pressed prong terminal clips in said socket, a visual indicator light having terminal prongs complemental to said spring pressed prong terminal clips detachably mounted to said socket for confinement in said light encasing part, a magnifying lens detachably mounted in the light encasing part of said casing to protect said visual light indicator and accentuate the signal therefrom, a base having lead terminal clips therein,



said base being detachably connected to said socket and prong terminal clips in said socket, and wire leads detachably connected to said socket base terminal clips from the exterior end thereof.

2,644,132
BATTERY TESTING METHOD
Soren L. Christie and Frank C. Marshall, Los Angeles, Calif., assignors to McColpin-Christie Corp., a corporation of California
Application November 8, 1948, Serial No. 58,912
4 Claims. (Cl. 324—29)

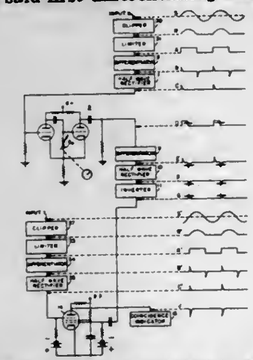


1. A method of determining the condition of a multicellular battery, including the steps of: charging the battery at a rate of the order of magnitude of 75 amperes for a period of time of the order of magnitude of one minute, and continuously measuring electrical quantities representative of the maximum difference between the voltages of the individual cells of the battery for a period of time of up to about 5 seconds after termination of said charging, beginning at the instant said charging is terminated.

2,644,133
PHASE COMPARING SYSTEM
Komnenus M. Soukaras, Miami, Fla.
Original application July 22, 1947, Serial No. 762,779. Divided and this application April 7, 1950, Serial No. 154,705
4 Claims. (Cl. 324—68)
(Granted under Title 35, U. S. Code (1952), sec. 266)

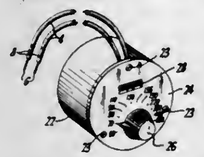
4. A system for comparing the phase of a pair of recurrent electrical signals having the same recurrence frequency comprising, a pair of input terminals each receiving one of said signals, a pair of pulse shaping means each connected to one of said input terminals and producing respectively a first rectangular wave responsive to one signal and a second rectangular wave responsive to the other signal, first and second differen-

tiating means each connected to one pulse shaping means and producing first and second sharp pulses coincident respectively with the leading edges of the first and second rectangular waves, a variable length pulse producing means having a calibrated control means for varying the pulse length, said pulse producing means being connected to said first differentiating means, a third



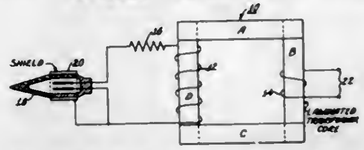
differentiating means connected to said variable length pulse producing means and producing a third sharp pulse coincident with the trailing edge of said variable length pulse, a coincidence circuit connected to said second and third differentiating means, and indicating means connected to said coincidence circuit for indicating coincidence between said second and third sharp pulses.

2,644,134
VOLTAGE INDICATOR
Nathan Schnoll, Palisade, N. J., assignor to Industrial Devices, Inc., Edgewater, N. J., a corporation
Application July 20, 1949, Serial No. 105,706
1 Claim. (Cl. 324—98)



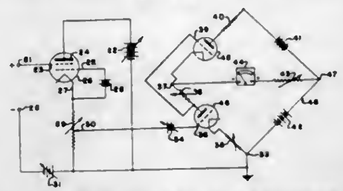
A voltage indicator comprising a housing of insulation material open at one end, a cover plate having scale markings thereon and a window opening therethrough, a potentiometer mounted on said cover plate in the rear thereof, a bracket secured to said potentiometer, a U-shaped metallic shield supported by said bracket, a two-electrode glow lamp positioned within said shield in such position that said shield surrounds solely the rear center half of the glow lamp and said lamp is visible through said window of said cover plate, said potentiometer having a variable tap terminal directly connected to one electrode of said glow lamp and a pair of line terminals coupled across the ends of the potentiometer, one of said line terminals being connected to the other electrode of said glow lamp through a current limiting resistor, a connection from said one electrode to said U-shaped shield, and test leads connected to said terminals and extending out of said housing through apertures therein.

2,644,135
CURRENT INDICATOR
Nathan Schnoll, Palisade, N. J.
Application March 20, 1950, Serial No. 150,680
3 Claims. (Cl. 324—98)



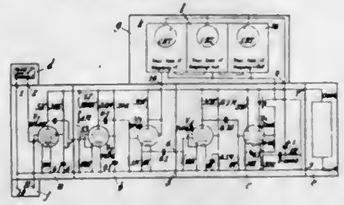
1. An indicator of alternating current comprising a core of magnetic material having a central opening, a winding composed of a plurality of turns of wire around a portion of said core, an insulation housing of molded plastic material and of the same general shape as said core surrounding said core and winding, said housing being divided into two parts and completely concealing said core from view and having a generally central opening registering with the opening of said core, means for detachably securing together said two parts of said housing, a glow lamp located externally of said housing and having a pair of electrodes, a potentiometer also located externally of said housing and having a tap adjustable over the length thereof, a connection from one of said electrodes to said tap, a connection from the other of said electrodes to one terminal of said winding one of said connections having a current limiting resistor serially arranged therein, another housing of molded plastic material enclosing said glow lamp, potentiometer and current limiting resistor, means for detachably securing together said two housings, a connection from one end of said potentiometer to another terminal of said winding, and a connection from the other end of said potentiometer to a point on said winding intermediate said terminals, said opening in said housing being unobstructed and sufficiently large to enable wire adapted to carry the current to be measured to be passed therethrough from the exterior of said first housing.

2,644,136
ULTRAHIGH IMPEDANCE ELECTROMETER TUBE VOLTMETER
Elwood H. Mullins, Washington, D. C.
Application October 25, 1950, Serial No. 192,099
6 Claims. (Cl. 324—101)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. An ultrahigh impedance electrometer tube voltmeter of the character disclosed for indicating the presence of an electrostatic field within the vicinity thereof, or for measuring the value of the voltage produced by a small quantity of electric charge at a source without appreciably reducing the voltage or otherwise disturbing the energy of the voltage source, comprising in combination, an electrometer discharge device having a plate, control grid, space charge grid and cathode; a cathode follower circuit having first and second sources of D. C. power, a bias voltage source, a plurality of impedance elements each comprising an adjustable slider contact; means settable at will for selecting one of said impedance elements and concurrently therewith selecting the slider contact corresponding thereto; a pair of input terminals; said cathode follower circuit comprising an electrical connection from the high potential side of said first source of D. C. power to said plate, said electrical connection including means controlled by said settable means for connecting a predetermined fractional portion of the voltage of said first source of D. C. power to said plate, a series connection from the low potential side of said first source of D. C. power through the selected impedance element to said cathode, said second source of D. C. power being connected in series between said cathode and said space charge grid with the low potential side thereof connected to the cathode, an electrical connection from one of said input terminals to said control grid, an electrical connection from the other input terminal to the negative side of said bias voltage source; means for connecting a selected portion of the positive side of the bias voltage source to the low potential side of said first source of power; a voltage output circuit having one side thereof connected to the adjustable slider on the selected impedance element and comprising the positive potential side thereof, the negative potential side of said output circuit being connected to the low potential side of said first source of power, voltage amplifying means including an electroresponsive indicator element having a plurality of voltage ranges and connected across the output circuit, each of said ranges corresponding to a predetermined setting of said settable means whereby the amount of negative feedback and circuit response may be varied to provide a plurality of ranges of input voltage to be measured by the voltmeter.

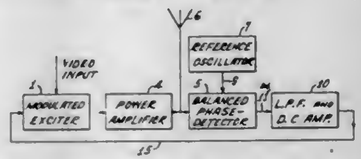
2,644,137
CATHODE-RAY TUBE VOLTMETER
Edward Herbert Theobald Jackson, Redhill, England
Application June 27, 1949, Serial No. 101,628
In Great Britain July 1, 1948
2 Claims. (Cl. 324—120)



1. A voltage measuring device comprising means for producing a series of rectangular electrical impulses at a predetermined frequency and of a duration proportional to an applied electrical potential to be measured, said means comprising an electronic valve having an anode, a cathode, and at least two grids interposed between said anode and cathode, means for applying an alternating current signal of known frequency to one of said grids to produce a series of rectangular impulses at the output of said valve of a frequency equal to that of said alternating current signal, and means for connecting the other of said grids to the source of voltage to be measured to control the duration of the rectangular impulses produced in accordance with the applied voltage; and means connected to said impulse producing means for differentiating the rectangular impulses produced thereby to form for each rectangular impulse a pair of short duration impulses spaced in timed relation in accordance with the duration of the applied rectangular impulse, and means responsive to said short duration impulses providing an indication of the voltage to be measured.

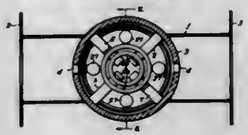
2. A voltage measuring device as defined in claim 1 wherein said last named means includes a cathode ray tube indicating device, means responsive to the first short duration impulse corresponding to each rectangular impulse for synchronizing said display device, and means responsive to the second short duration impulse for each such rectangular impulse for causing said cathode ray tube display device to produce an indication of the applied electrical potential to be measured.

2,644,138
FREQUENCY CONTROL SYSTEM
Donald S. Bond, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 9, 1949, Serial No. 132,153
2 Claims. (Cl. 332—19)



1. A modulation system, comprising a controllable modulated exciter, a power amplifier coupled to the output of said exciter, spurious phase modulation being introduced into the signal passing through the exciter and amplifier, a stable reference oscillator, means for mixing the outputs of said amplifier and said oscillator and for producing therefrom voltages responsive to relative phases thereof differing from a predetermined relative phase, and means for applying said produced voltages to said controllable exciter to control the output frequency thereof to substantially neutralize said spurious phase modulation.

2,644,139
MULTIFREQUENCY T-R BOX
Lloyd P. Hunter, Oak Ridge, Tenn., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 27, 1947, Serial No. 794,147
8 Claims. (Cl. 333—13)



1. A T-R box comprising external conductive walls defining a main cylindrical cavity, a plurality of pairs of spaced conductive radial walls separating a portion of the interior of said main cavity into sub-cavities of equal resonance frequency, the ends of said radial walls terminat-

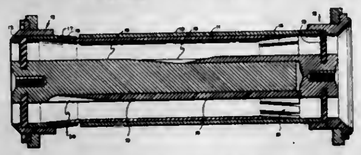
ing adjacent each other to provide gaps between them; an inlet to said main cavity for connection to a wave guide; an outlet from said main cavity for connection to a wave guide; conductors connecting alternate radial walls to each other; and capacitive means coupling said conductors to each other, whereby at low power levels said main cavity resonates at one of a plurality of resonant frequencies depending on the frequency of the input energy and at a higher power level a discharge occurs between said radial walls.

2,644,140

VARIABLE-LENGTH TRANSMISSION LINE

Marshall C. Pease, Boston, Mass., assignor to the United States of America as represented by the Secretary of War

Application October 19, 1945, Serial No. 623,417
3 Claims. (Cl. 333—31)



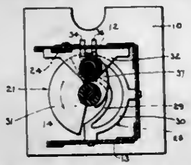
3. A variable-length coaxial transmission line for radio frequency energy, including an inner and outer conductor, said inner conductor comprising a pair of end-to-end slidably-connected portions, one portion having relatively long tapered tongues disposed about its periphery, and the other portion having relatively long tapered grooves disposed about its periphery within which grooves said tongues fit, make electrical contact, and are adapted to slide, said outer conductor having a first portion slidably engaged with a second portion.

2,644,141

TUNER FOR RADIO RECEIVERS AND THE LIKE

Chester W. Lytle, Chicago, Ill., assignor, by mesne assignments, to Lytle Engineering & Mfg. Co., a corporation of Illinois

Application November 24, 1950, Serial No. 197,383
3 Claims. (Cl. 336—79)



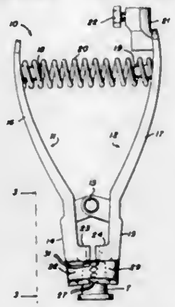
1. As a new article of manufacture, an inductor element for an electrostatic tuning unit, said inductor element comprising a thin sheet of electrostatic insulating material, a spiral shaped thin conductor on one face of said sheet and comprising a continuous length of conductor lying continuously in contact with such face of the sheet and spiralling from the center of the spiral outwardly towards the periphery of the sheet, a second spiral shaped thin conductor on the opposite face of the same sheet and comprising a second continuous length of conductor lying continuously in contact with such opposite face of the sheet and spiralling from a center of such second spiral outwardly towards the periphery of the sheet, the centers of the spirals on the two faces of the sheet being opposite to each other, and the two spirals being so formed on the opposite faces of the sheet that the direction of rotation from the periphery of the sheet when following one spiral inwardly from such sheet periphery to the center of such spiral and viewed looking towards the face of the sheet against which said spiral is in contact, is the same as the direction of rotation from the center of the second spiral when following said second spiral outwardly from such center to the periphery of the sheet and looking in the same direction as aforesaid, together with an electrical connection through the sheet between and connected to the centers of the two spirals, and electrical connections to the peripheral ends of both of the spirals.

2,644,142

ELECTRIC TERMINAL CLAMP

Charles A. Danberg, Berlin, Conn., assignor to C. A. Danberg, Inc., Berlin, Conn., a corporation of Connecticut

Application March 16, 1950, Serial No. 149,940
4 Claims. (Cl. 339—32)



1. In an electric battery terminal clamp, a pair of levers pivoted together between their ends in plier-like fashion, each of said levers having an elongated handle at one end and a work-engaging jaw at its other end, a strong spring located between said handle sections for pressing said jaws together, said jaws having concave longitudinally-toothed end clamping sections and longitudinally-toothed intermediate ridges inwardly-offset from said end clamping sections to engage irregular electric terminals, and one of said handle members having a cable connecting member.

2,644,143

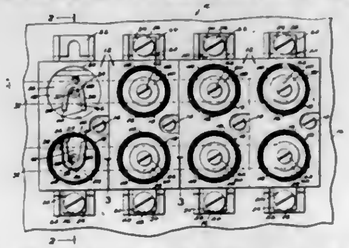
ELECTRICAL RECEPTACLE HAVING SCREW-TYPE SOCKET AND CENTER CONTACT GUIDE

Richard P. Bailou, Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J., a corporation

Application August 30, 1949, Serial No. 113,158
4 Claims. (Cl. 339—180)

1. In a fuse block having a fuse-socket recess provided with an apertured portion adapted to be engaged by a contact member, a raised U-shaped guide member in said recess bordering said aperture, the arms of said U extending linearly from the base thereof in mutual diverging relation to form a guideway therebetween extending from the ends of said arms to said aperture to guide said contact member in a linear direction to said aperture, said base of the U serving as an abutment at one end of the guide member to limit

lateral movement of said contact member in relation to said aperture in assembling the fuse-socket



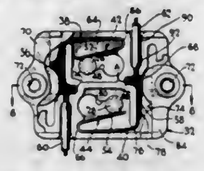
with the fuse block, said abutment forming a continuation of the wall of said aperture.

2,644,144

TERMINAL FOR ELECTRIC FIXTURES

Arthur A. Richardson, Edgewood, R. I., assignor to Harry M. Burt and Guy H. Burt, doing business as The Lloyd Products Company, Providence, R. I.

Application October 26, 1949, Serial No. 123,767
9 Claims. (Cl. 339—189)



1. A terminal for an electric fixture, said terminal comprising an electrically nonconductive body having a wire passageway extending inwardly from the outer surface thereof and including a lateral notch, a flexible, resilient, elongated, blunt, electrically conductive terminal element in said passageway adjacent said notch, means to mount said element for movement into and out of said notch in the direction of its length whereby when the element is moved into the notch with a wire in the passageway extending across the notch, said element will force the wire into the notch in the shape of a U, said mounting means being disposed to locate said element close to that wall of the notch which is nearer the end of the passageway through which the wire enters, whereby when a wire forced into the notch by the element is pulled the element will flex toward said wall and clamp the wire thereagainst, and means mounted on and movable relative to said body to force said element into said notch, said forcing means being disposed to act adjacent the end of said element remote from the notch.

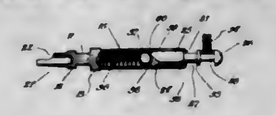
2,644,145

PRESSURE CONTACT

Charles J. Adams, Park Ridge, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois

Application June 27, 1950, Serial No. 170,577
8 Claims. (Cl. 339—222)

1. In an electrical connector, a pressure contact comprising a tubular housing with a plunger therein, the plunger including a slide portion within the tubular housing and a contact portion extending outwardly from one end thereof; a coil spring within the tubular housing uring said plunger longitudinally outwardly from said housing, together with means to press an inner portion of said plunger laterally against the inside surfaces of said housing; said means com-



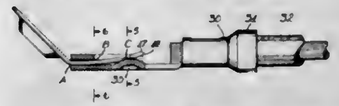
prising an angular face portion on the inner end of the plunger, and a ball interposed between the end of the coil spring and said angular face portion.

2,644,146

DETACHABLE CONNECTOR HAVING TWO-POINT SUPPORT

Henry P. Dupre, Croton on Hudson, N. Y., assignor to Burndy Engineering Co. Inc., a corporation of New York

Application September 16, 1949, Serial No. 116,037
2 Claims. (Cl. 339—252)



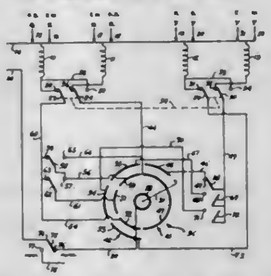
1. A two-piece electrical connector comprising a male member and a female member, one end of said male member consisting entirely of a resilient tongue portion, said female member consisting of a socket and having rigid walls and an opening to receive the tongue portion, and a securing means formed in the socket wall of the female member for engagement with said tongue portion, said securing means longitudinally spaced from the opening in said socket wall, whereby, when said tongue portion is inserted into position, the tongue is transversely flexed away from its longitudinal position and secured in position, said tongue portion being engaged by the female member on at least two spaced apart points of support.

2,644,147

ELECTRICAL SIGNAL SYSTEM FOR TRAFFIC LIGHTS

Alfred R. Finn, Leaside, Ontario, and Louis Rostoker, Toronto, Ontario, Canada

Application March 4, 1949, Serial No. 79,582
In Canada June 14, 1948
4 Claims. (Cl. 340—41)



1. In an electrical signal system for traffic lights including a plurality of relays governing the actuation of said lights and electrically arranged so that one relay is designed to actuate

the green lights at east and west and the red lights at north and south, a second relay is designed to actuate green lights at north and south and red lights at east and west, a third relay is designed to actuate caution lights at north and south, and a fourth relay is designed to actuate caution lights at east and west; a control electrical circuit arrangement for actuating the relays comprising; electrical control armature means, means rotating said armature in one direction only at a predetermined speed and providing a fixed cyclic period therefor, means apportioning part of said cyclic period by electrical connection to said second relay, means for apportioning the remainder of said cyclic period by electrical connection to said first relay, said armature means being connected to one side of a current supply line and distributing current therefrom according to said apportionment, said relays being commonly connected to the other side of said current supply line, and means feeding electrical current to said third relay during the last portion of the portion of the cyclic period apportioned to said second relay and means feeding electrical current to said fourth relay at the end portion of said cyclic period.

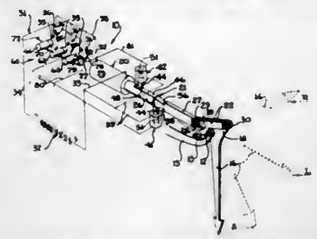
2,644,148
AUTOMOBILE PASSING SIGNAL
Matthias Nolcox, Indianapolis, Ind.
Application February 6, 1951, Serial No. 209,603
3 Claims. (Cl. 340—106)



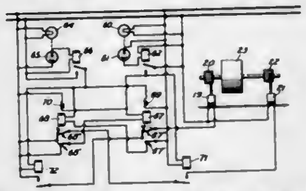
1. A signal lamp comprising a lamp housing having a relatively rear translucent caution color enclosing wall; an encircling side wall about said lamp housing; a plurality of individual lamp housings mounted in two groups around said wall in spaced relation one from another, one of said groups of the housings carrying a "pass" signal colored rear wall in each housing, and the other group carrying a "no" signal colored rear wall in each housing; a lamp in each of all of said housings; said housings each being entirely closed off in respect to all other of said housings; and the illumination of one lamp being non-mixing with that of any other lamp; the said "paths," "go," and "caution" walls being differently colored one from the other.

2,644,149
AUTOMOBILE DIRECTIONAL SIGNAL CONTROL
Michael Corpora, Mountain View, Calif., assignor of forty per cent to Joseph Richard Viviano, Mountain View, Calif.
Application November 25, 1950, Serial No. 197,540
2 Claims. (Cl. 340—128)

1. The combination with a signal arm pivotally mounted for swinging movement in a vertical plane, of means for controlling said signal arm for movement into various positions laterally of its pivotal mounting, comprising a master solenoid having its armature disposed for reciprocation within said plane, link means pivotally connected to said signal arm eccentrically of its pivotal mounting and having a pin and slot connection with the free end of said master armature whereby the latter is free for initial movement independent of said link means and signal arm, an electrical circuit including a primary switch for energizing said master solenoid for swinging said signal arm into fully raised position, a first and a second intermediate solenoid each having its armature disposed for reciprocation transverse of the movement of said master armature and urged against the latter, stop means on said master armature engageable by the armature of the first of said intermediate solenoids upon movement of said master armature at least one quarter its full stroke and engageable by the armature of the second of said intermediate solenoids upon movement of said master armature at least one half its full stroke, and separate switch means for optionally completing said circuit to either all of said solenoids, the first intermediate and master solenoids or the master solenoid only for swinging said signal arm into fully, partially or semi-partially raised position.



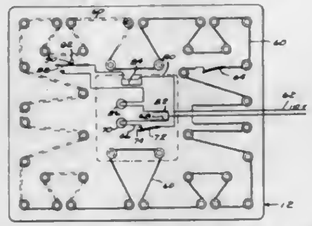
2,644,150
AUTOMATIC TRAFFIC DIRECTING DEVICE FOR GARAGES
Philip H. Burn, Forest Hills, N. Y.
Application June 26, 1948, Serial No. 35,350
13 Claims. (Cl. 340—213)



1. In a garage or the like, two parking areas, first counting means for counting vehicles entering the first of said areas, second counting means for counting vehicles leaving said first area, differential means for resolving the difference between operations of both said counting means, said differential means including means producing two functions, a first function upon attainment of a given differential when said given differential is approached in an ascending order and when the second of the two said functions has been more recently produced and means producing a second function upon attainment of a second lesser differential when said second differential is approached in a descending order and when the first of said two functions has been

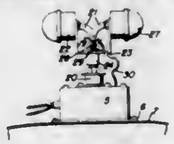
the more recently produced, and indicating means connected to respond to said first function for directing traffic to said second parking area upon attainment of said first differential, said indicating means being connected for effective disablement in response to said second function, whereby said first area may contain a given number of vehicles before said indicating means will route traffic to said second area, and further whereby said first area may be emptied of a plurality of vehicles before said indicating means will stop routing traffic away from said first area and into said second area.

2,644,151
DRY MOUNTING PRESS WITH TIMING SIGNALS
Theodore H. Krueger, Stratford, Conn., assignor to Seal Incorporated, a corporation of Connecticut
Application July 29, 1948, Serial No. 41,378
6 Claims. (Cl. 340—227)



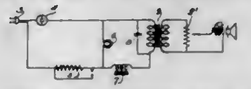
1. A photographic mounting press comprising a bed and platen movable into and out of contact with said bed, said platen containing an electrical heating unit, means for automatically regulating the temperature of said unit, an electrical circuit associated with said unit having a signal element and a switch, said switch being so mounted and constructed as to be responsive to the temperature of said platen so as to close the circuit through said signal element when the temperature of the platen reaches a predetermined minimum, a second electric circuit associated with said platen and containing a signal, a flasher arranged to open and close the circuit at timed intervals and a mechanically actuated switch, and switch closing means for said mechanical switch, said switch and switch closing means being mounted on relatively movable parts of the press and being so constructed and arranged that when the press is closed the switch is closed and when the press is opened the switch is opened.

2,644,152
TRAFFIC WARNING SIGNAL
Walter F. Ginsberg, Anaconda, Mont.
Application March 16, 1950, Serial No. 149,958
4 Claims. (Cl. 340—366)



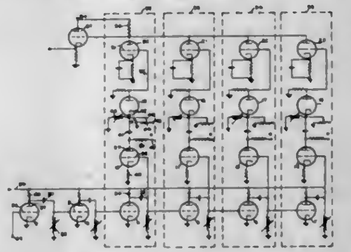
1. A traffic warning signal comprising a motor having an oscillating shaft, a lamp operatively connected to said shaft for swinging movement thereby, a plurality of conductor plates mounted on a supporting structure in co-planar spaced apart relation from each other, circuit means electrically connecting each of said conductor plates to a source of power, a contact connected to the lamp and supported by the shaft for swinging movement thereby in wiping engagement with the plates, means electrically connecting said contact to said motor, and a switch connected in said circuit means leading to said plates for selectively cutting off at least one of the plates to stop said motor and to deactuate the shaft for holding the lamp facing in a predetermined direction when said contact engages said one of said plates.

2,644,153
ACOUSTIC SLEEP-INDUCING APPARATUS
Charles Beazley, Chicago, Ill.
Application April 12, 1950, Serial No. 155,441
3 Claims. (Cl. 340—384)



1. An acoustic sleep inducing device of the class described, comprising: an alternating current circuit of low and substantially constant frequency, said alternating current having a fundamental sinusoidal wave shape accompanied by incidental harmonics; sound producing means connected to said circuit for energization therefrom, said sound producing means emitting a low humming sound; an inductor serially included in said energizing connection for reducing the flow of said harmonics therethrough; a resistor serially included in said energizing connection; and periodically operative circuit making and breaking means connected across said resistor, whereby the energy level of said sound emitted by said producing means varies periodically between two predetermined values.

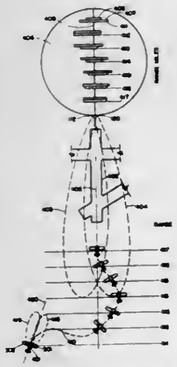
2,644,154
MOVING OBJECT INDICATION RECEIVER CIRCUIT
Robert A. McConnell, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,077
4 Claims. (Cl. 343—9)



1. In a radio object locating system adapted to distinguish fixed objects from moving objects, a receiver having a response characteristic which is in part linear and in part logarithmic, said receiver including a plurality of intermediate frequency amplifier stages connected in cascade and having equal amplification factors, a plurality of buffer amplifier stages, each intermediate frequency stage being connected to a respective buffer amplifier stage, a plurality of detector

stages, each buffer amplifier stage being connected to a respective detector stage, a plurality of video amplifiers substantially the same amplification characteristics and saturation points, each detector stage being connected to a respective video amplifier stage, an output load circuit in parallel with the output circuits of each of said video amplifier stages, means for applying object echo signals to the first of said cascaded intermediate frequency amplifier stages, means for applying reference oscillations to at least one of said detector stages whereby said reference oscillations and the amplified echo signals are combined in an additive manner and the resultant combination detected to provide video signals.

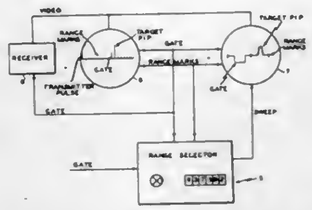
2,644,155
BLIND LANDING SYSTEM
Robert A. Emmett, Jr., United States Navy
Application November 21, 1945, Serial No. 630,115
5 Claims. (Cl. 343—11)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. Beacon apparatus comprising the combination of a directional antenna system having a pair of overlapping field patterns, a single omnidirectional receiving means operative to receive a remotely transmitted energy pulse, transmitting means coupled to said directional antenna system and responsive to a pulse received by said omnidirectional receiving means to cause said transmitting means to emit in rapid sequence a single pulse of energy in each of said field patterns.

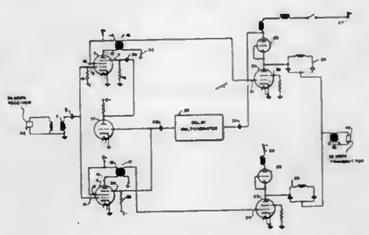
2,644,156
RANGE SELECTOR CIRCUIT
Edwin G. Schneider, Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 22, 1945, Serial No. 584,234
17 Claims. (Cl. 343—13)

1. A circuit employing a plurality of cathode ray tubes for displaying time delay information and for applying a gate to a receiver channel, said circuit comprising means for supplying a synchronizing pulse, gate generator means responsive to said synchronizing pulse, pulse generator means responsive to the output of said gate generator means, first saw tooth generator means, a first control means comprising a variable voltage divider and a cathode follower, combining means for combining the output of said first saw tooth generator and the output of said first control means, first multivibrator means responsive to the output of said combining means, an electronic coincidence tube for combining the outputs of said pulse generator means and said first multivibrator means, second control means, second multivibrator means responsive to said second control means and the output of said coincidence tube, a third multivibrator means responsive to the output of said second multivibrator means, a second saw tooth generator means responsive to the output of said coincidence tube, a plurality of cathode ray tubes, radio receiver means, means for applying at least



a portion of the output of said pulse generator means to at least one of said cathode ray tubes, means for applying at least a portion of the output of said second saw tooth generator to at least one of said cathode ray tubes, means for applying the output of said third multivibrator means to at least one of said cathode ray tubes, means for applying at least a portion of the output of said third multivibrator means to said receiver means, and means connected with said first and second control means for indicating the time interval between said synchronizing pulse and a pulse in the output of said third multivibrator means.

2,644,157
DOUBLE PULSE GAS TUBE MODULATOR
Peter T. Maresca, Asbury Park, and Irving Stokes, Red Bank, N. J., assignors to the United States of America as represented by the Secretary of the Army
Application March 5, 1951, Serial No. 213,996
16 Claims. (Cl. 343—101)
(Granted under Title 35, U. S. Code (1952), sec. 266)

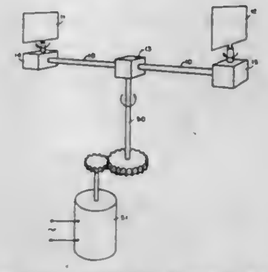


1. A pulse keying circuit comprising first and second vacuum tubes, each of said vacuum tubes having a control grid, a suppressor grid and an anode circuit, said control grids being kept at a fixed negative bias sufficient to render said tubes cut off, the suppressor grid of said first tube being connected to ground, the suppressor grid of said second tube being kept at a fixed negative bias sufficient to render said second tube cut off

regardless of the bias on its control grid, means for applying first and second pulses to said control grids whereby said first tube is rendered conductive by the first applied pulse but said second tube remains cut off, first and second gas discharge tubes each respectively having a control grid, first and second pulse transformers, the control grid of said first gas discharge tube being connected to the anode circuit of said first vacuum tube through said first pulse transformer whereby said first gas discharge tube is fired by said first pulse, means for generating a switching wave, means for applying the output pulse of said first gas tube to said generating means to initiate said switching wave, and means for applying said switching wave to the suppressor grids of said vacuum tubes to render said first vacuum tube inoperative but to counteract the negative bias on the suppressor grid of said second vacuum tube, the control grid of said second gas discharge tube being connected to the anode circuit of said second vacuum tube through the second of said pulse transformers whereby said second gas discharge tube may be fired by the second pulse coupled to the control grids of said vacuum tubes by said pulse applying means during the duration of said switching wave.

5. In combination, a beacon receiver, a beacon transmitter, and a circuit for keying said transmitter by first and second pulses received by said receiver, said circuit comprising first and second alternately operative paths, said paths each respectively comprising a vacuum tube amplifier coupled to and firing a gas discharge tube, the gas tubes of both said paths being connected to said transmitter, and a multivibrator connected between the output of one of the gas tubes in one of said paths and the vacuum tubes of both said paths so that said vacuum tubes are alternately blocked and unblocked by a switching wave produced by said multivibrator, the alternate firing of said gas tubes by said first and second pulses serving to key said transmitter in response to said pulses.

2,644,158
DIRECTIVE ANTENNA SYSTEM
Sterling R. Thrift, Washington, D. C.
Application November 6, 1946, Serial No. 708,044
4 Claims. (Cl. 343—118)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A directive antenna system having substantially zero responsiveness to signals from a certain direction but finite responsiveness to signals from all other directions, said system comprising a rotatable member, a pair of identical loop antennas attached to said rotatable member at opposite ends thereof, means for rotating said member and to simultaneously rotate each of said loop antennas in an opposite direction to the rotation of said member such that said loops are always parallel, and means for combinining the outputs of said loops to indicate the direction of incoming signals.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 26, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification; including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

653,905. **SHOCK MOUNT.** Ervin Pietz, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Filed Mar. 12, 1946. Published June 30, 1953. Class 248—358. 1 sheet of drawings. 5 pages of specification.

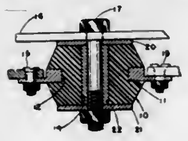


FIG. 2

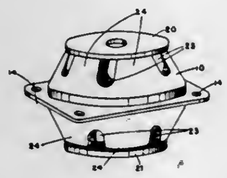


FIG. 1

A shock resistant mounting for supporting one member relative to another, comprising a one piece body **10** of resilient material having a circular periphery and having a medial portion thereof peripherally grooved at **11** to receive one of said members and being tapered toward each end away from the said medial grooved portion. The body of resilient material has an axial opening **18** therethrough with a tubular sleeve **22** in the axial opening. Centrally apertured spaced plates **20** and **21** are disposed one overlying each of the opposite ends of the resilient body and of the tubular sleeve. Securing means **17** passes through the plates and sleeve and is adapted to secure the mounting to the other member **16**. The ends of the circular one piece resilient body have radial grooves **23** therein which form radially inwardly tapered upstanding plate engaging fingers **24**, the radial grooves in the ends of the one piece resilient body being of a depth short of the said groove in the medial portion.

661,339. **PURIFICATION OF URANYL NITRATE BY ETHER EXTRACTION.** James I. Hoffman, Chevy Chase, Md. Filed Apr. 11, 1946. Published June 30, 1953. Class 23—14.5. No drawing. 15 pages of specification.

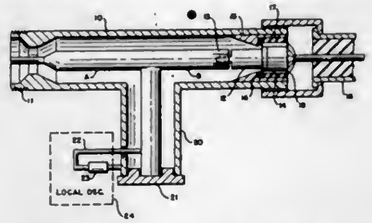
According to this disclosure, uranyl nitrate is purified by evaporating a solution containing it to dryness, extracting the resulting uranium nitrate hexahydrate with an ether, washing the ether solution with from one to ten percent by volume of water, and then recovering the purified uranyl nitrate from the ether layer by extraction in a larger portion or successive portions of water.

Suitable examples of ethers are ethyl, n-propyl, isopropyl, and other mono ethers.

Impurities indicated by the examples to be removed in whole or in part by the process include silver, aluminum, arsenic, gold, boron, bismuth, calcium, cadmium, cerium, cobalt, chromium, copper, dysprosium, erbium, europium, iron, gadolinium, gallium, holmium, indium, potassium, lanthanum, magnesium, manganese, molybdenum, sodium, nickel, neodymium, lead, praesodymium, antimony, scandium, silicon, tin, terbium, thorium, vanadium, yttrium, ytterbium, and zirconium.

The purified uranium nitrate can be ignited to uranium oxide and converted to uranium carbide, uranium tetrafluoride, uranium hexafluoride, or uranium metal, and such products can thereby be obtained sufficiently free from neutron-absorbing impurities that they may be used directly in self sustaining nuclear fission chain reacting systems.

678,171. **BROAD BAND COAXIAL LINE MIXER.** John S. Foster, Jr., Montreal, Quebec, Canada, assignor to the United States of America as represented by the Secretary of War. Filed June 21, 1946. Published June 30, 1953. Class 250—20. 1 sheet of drawings. 7 pages of specification.



This application relates to a mixer structure for combining locally generated oscillations with received ultra high frequency signals and detecting the combined signals to provide an intermediate frequency output, and is especially designed to provide a broad band frequency response. Referring to the figure of the drawing, received signals are applied through connector **11** to the coaxial line section **10**. The coaxial line is terminated at its outer end by a cartridge type crystal detector **12**, whose nose is grasped by contact fingers **13**, and whose head is supported by the assembly including ferrule **14**, tubular insulator **14**, mica washer **16** and collar **15**. This assembly while insulating the head from the outer conductor for direct current provides a radio frequency by-pass condenser between the head and the outer conductor. The local oscillations are fed into the mixer from coupling **22** by means of the short circuited stub assembly **20**, which

is a quarter wavelength long at mid frequency of the band to be covered. As a termination, the crystals rectifier should have a resistive component substantially equal to the characteristic impedance of the coaxial line, but may have a reactive component which is negative or capacitative. The length of section B between the stub junction point and the crystal is chosen for best match at mid-frequency. At the high frequency end of the band, section B will present an inductive reactance at the junction, while the stub presents a capacitative reactance, which reactances tend to cancel. Likewise at the low frequency end of the band section B presents a capacitative reactance and the stub compensating inductive reactance. Accordingly a good match is provided over a broad band of frequencies. Output connection to the detector is provided by spring contacts **19** and coaxial cable **18**.

793,347. **RECOVERY OF PAPER STOCK.** Francis L. Fennell, Niagara Falls, N. Y. Filed Dec. 23, 1947. Published June 30, 1953. Class 92—1.5. 1 sheet of drawings. 14 pages of specification.

The application relates to the deinking of waste paper by treatment with alkali followed by washing with water containing a small amount of hypochlorite and finally bleaching the washed stock with peroxide.

Waste paper, such as newsprint, telephone directories, magazine or ledger stock is pulped with an aqueous solution of caustic soda at about 180° F. to a consistency of 6 to 7% and then cooked with steam at about 200° F. for 2 to 4 hours. The black stock so produced is diluted to about 0.8 to 1% consistency by adding water. Hypochlorite is mixed with diluted stock in such amount as to maintain a total chlorine content of about 20 to 200 parts per million. This suspension passes through a riffler to remove heavy particles and is then screened in a conventional system. Coloring matter resistant to peroxide will have been substantially removed by this treatment. After passage through a vacuum filter washer the pulp will have a consistency of about 12 to 15% and will be further washed and again diluted by passage through "Lancaster" type washers to a consistency of about 5% and is then subjected to alkaline peroxide bleaching by either a continuous or batch type operation.

The consistency of the black stock after dilution should not be much over 2% to minimize the tendency of hypochlorite to act on the fibers as well as on the peroxide-resistant colors. Consistencies below 0.5% can be used but economies of operation may be low. Generally an amount of hypochlorite equivalent to about 0.1% of total chlorine based on the dry weight of the pulp is required to remove the coloring matter resistant to peroxide.

301. **PROTECTION OF SURFACES AND PORTALS FROM NOXIOUS ATMOSPHERE.** Jack DeMent, Portland, Oreg. Filed Jan. 2, 1948. Published June 30, 1953. Class 21—60.5. 1 sheet of drawings. 14 pages of specification.

The process of the application is one for preventing airborne noxious agents from contacting the surface of the structure or entering into it by covering said structure with a flowable foam in a substantially unbroken layer.

The foam may be of short term stability in which event substances such as saponin, molasses, peptone, albumen, pectin, sodium oleate, and ammonium resinate can be used. For long term stability, regenerated cellulose, polyvinyl-

chloride-acetate and cellulose esters and ethers can be used dissolved in suitable solvents. If there is a danger of fire the gas used for the foam should be inert such as carbon dioxide or nitrogen. If humans are to be protected, the gas can be oxygen or air for breathing purposes.

Compounds for making the foam impervious to ultraviolet, or chemically reactive with bacterial and chemical warfare agents may be added to the foam.

When a short-term foam is used it is desirable to have a means for continuously replenishing it. In the event that there is a break in the foam barrier the break would then be quickly sealed over.

57,071. **LUBRICATING DEVICE.** Victor F. Miller, Plandome, N. Y., assignor to the Bell Telephone Laboratories, Inc., New York, N. Y., a corporation of New York. Filed Oct. 28, 1948. Published June 30, 1953. Class 222—385. 1 sheet of drawings. 7 pages of specification.

Fig. 1

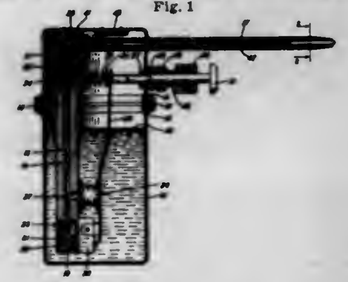


FIG. 3
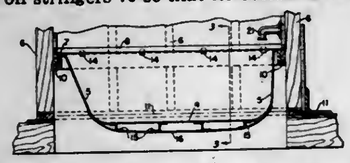


A liquid applicator comprising a reservoir **18**, a pump having an intake **19** within said reservoir, a plunger **31** actuating said pump, adjustable means **36** and **38**, limiting the depression of said plunger and the discharge from said pump, a tubular member **17** extending from the discharge of said pump, and a cylindrical insert **42** of material impermeable to the liquid extending within the tubular member, said insert and the inner wall of said tubular member defining throughout their length one or more capillary passages therebetween. The insert **42** may assume a number of forms having the same general external cross section as the internal cross section of the tubular member **17** and fitting within and engaging that member, and may have one or a plurality of surface portions, for example longitudinal grooves, spaced from the inner wall of the tubular member and extending throughout its length within said member to define with said wall capillary passages.

103,361. **BATHTUB AND BATHTUB INSTALLATION.** Clarence J. Rodman, Alliance, Ohio. Filed July 7, 1949. Published June 30, 1953. Class 4—173. 1 sheet of drawings. 9 pages of specification.

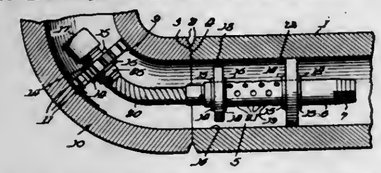
This disclosure relates to the reinforcement of bathtubs made of light gauge steel and a novel method of installing bathtubs. The tub **5** is drawn from such thin gauge steel that the bottom **4** is no thicker than 0.60 inch. This is reinforced by cross bars **15** and metal strips **16** which are welded to the cross bars and the ends of

which are welded to the tub. The tub is supported on stringers 10 so that its bottom is below



the floor level 11, so that a person may more easily step in and out of the tub than if installed in the usual manner.

134,286. **WELDING APPARATUS.** Raymond A. Mueller, Oak Lawn, Ill., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 21, 1949. Published June 30, 1953. Class 113—111. 1 sheet of drawings. 14 pages of specification.



An apparatus for welding ends of conduits together is shown in the figure. It comprises an elongated tube 6 one end of which 7 is adapted to be connected to a source of inert gas under pressure. To the other end of the tube is attached a flexible member 20, the unattached end of which is closed. Near the closed end of the member 20 is a flange 9 having peripheral grooves 11. Another flange 22 is provided near the remote end of the tube 6. In addition a deflector 18 is attached to the tube near the end to which the flexible member 20 is connected. The segment of tube 6 between the flange 22 and the deflector 18 is perforated at 21. The foregoing apparatus is inserted into abutting ends of the conduits so that a flange is disposed on each side of the ends to be welded together. Inert gas is permitted to enter the chamber between the conduits and the flanges through the perforation, whereby sufficient gas pressure is established at the joint to prevent the formation of weld drippings or "icicles," interiorly during the welding operation. The excess of gas pressure escapes through the peripheral grooves 11. One purpose of the deflector 18 is to prevent the elongated tube 6 from coming in contact with the joint where the abutting conduits form either a U-turn or an S-curve.

174,767. **DOOR OPENER.** Donald R. Baker, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York. Filed July 19, 1950. Published June 30, 1953. Class 312—273. 1 sheet of drawings. 4 pages of specification.



The disclosure relates to an arrangement for opening the doors of a double door cabinet, such as a radio cabinet, in which no external hardware for opening the door appears on the outside door surface. A pair of double doors 2 are mounted on hinges (not shown) which are adapted to permit limited inwardly swinging movement of each door and a concealed door opening lever is mounted by means of a pivotal connection 8 behind the dividing line between the two doors. The pivotal connection 8 may conveniently be affixed to the inner surface of the cabinet top (not shown). The pivoted door opening lever has two arms 5 and 7 which diverge from the pivotal connection and each of which bears against the inner surface of a different one of the doors 2. Due to this arrangement, one of the doors can be pushed inwardly to cause a pivotal motion of the lever about its pivot 6 causing the other door to be forced open by the engagement of the free end of the respective lever arm adjacent the other door with the other door. Once one of the doors has been forced outwardly, the person desiring to open the cabinet may then reach interiorly of the cabinet and push the door against which the force was originally exerted outwardly so that both doors will then be open.

187,341. **TRANSMISSION SYSTEM.** Leonard Hatkin, Elberon, N. J., assignor to the United States of America as represented by the Secretary of the Army. Filed Sept. 28, 1950. Published June 30, 1953. Class 178—44-1D. 1 sheet of drawings. 4 pages of specification.

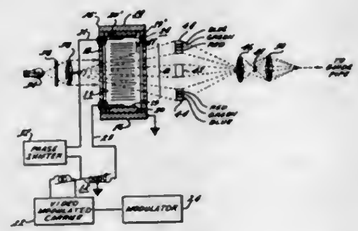
(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)



This disclosure relates to a device for converting a linearly polarized wave in a circular hollow pipe waveguide into a circularly polarized wave. As shown in Fig. 2 a metal post 6 is inserted into the waveguide so as to be at an angle of 45° with respect to plane of polarization of the electric vector of the plane polarized wave. The electric vector may be considered to be composed of two components one parallel and the other perpendicular to the metal post. For a particular diameter of post and depth of penetration of the same into the waveguide both components will receive equal and opposite phase shifts of 45° and will combine to produce a circularly polarized wave. It has been found that where circularity is lost due to a mismatched termination or where the termination is not matched over the entire operating band used, adjustment of the post provides a means of compensation over a broad band of frequencies.

199,707. **TELEVISION DISTRIBUTION SYSTEMS.** John E. Evans, Blawenburg, N. J., assignor to Radio Corporation of America, a corporation of Delaware. Filed Dec. 7, 1950. Published June 30, 1953. Class 250—7. 2 sheets of drawings. 15 pages of specification.

This application relates to an improved means for communicating a plurality of wide band signal channels over a light beam or light guide. A variable diffraction cell 10 is excited with electrical signals produced by the video modulated carrier means 22. The modulating signal sets up standing waves 15 in the cell 10 so that light derived from source 34 is broken up into diffraction rings of several orders, such as 42 and 44. An opaque screen is positioned at 42 to prevent the zeroth order of diffraction from being collected by the lens 46. The total light energy in the other diffraction orders and as collected by lens 46 will, therefore, vary in accordance with the modulation imposed on the carrier applied to the cell. A monochromatic filter 36 may be imposed in front of the light source 34 so that a single modulated color is produced by the light modu-



lation system. The resultant modulated light may then be combined with other similarly modulated light of different colors and transmitted to a receiving location by means of direct optical transmission or by means of a circuitous light guide. The light guide (not shown) may have a number of monitoring stations along it which intercept a portion of the transmitted light and by means of optical filters select a given communication channel.

201,060. **PREPARATION OF GUANIDINE CARBONATE.** John R. Bower, Jr., Stamford, Conn. Filed Dec. 15, 1950. Published June 30, 1953. Class 260—564. No drawing. 5 pages of specification.

This application discloses that guanidine carbonate can be synthesized from aqueous cyanamide solutions containing ammonia and carbon dioxide under pressure in a vessel lined with titanium metal to avoid corrosion of the vessel.

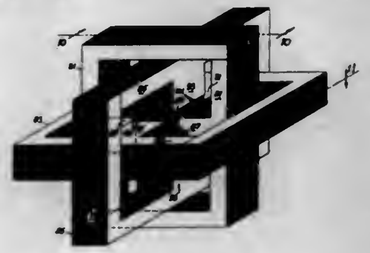
211,425. **PROCESS FOR STABILIZING RAYON FABRICS.** Kenneth Carrington Bass, Jr., Richmond, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Filed Feb. 16, 1951. Published June 30, 1953. Class 8—125. No drawing. 11 pages of specification.

This is a process for stabilizing rayon (regenerated cellulose) fabrics against substantial shrinkage under repeated laundry washings and also provide treated fabric which is free of excessive stretchiness and has a soft hand.

The rayon (regenerated cellulose) fabric is impregnated with hot dilute aqueous caustic solution (4%–10% NaOH concentration at a temperature 60°–80° C.) for a short time (¼ to 5 minutes) while the fabric is maintained at constant dimensions. Thereafter the fabric is washed free of caustic while held extended and then scoured relaxed, relaxed dried and framed to its equilibrium filling dimension.

It has been discovered that substantially increasing the caustic temperature greatly accelerates the speed of reaction and, surprisingly, the fabrics obtained after the treatment with the hot dilute caustic solution are distinctly softer than those obtained at room temperature. Generally, it has been found advantageous to increase the concentration of caustic to compensate for the decrease in swelling at the higher temperature, and a preferred combination is 7% aqueous NaOH solution at 80° C. Nevertheless, lower and higher concentrations have proven useful, i. e., from 4% to 10% and temperatures as low as 60° C. are also capable of giving decided improvement in results over the prior art.

212,266. **ELECTRIC AND MAGNETIC CIRCUIT COUPLING METHODS AND APPARATUS.** Alexander S. Langsdorf, Jr., Chicago, Ill. Filed Feb. 23, 1951. Published June 30, 1953. Class 323—89. 4 sheets of drawings. 42 pages of specification.



This device relates to coupling methods and apparatus wherein orthogonal field-inducing vector forces intersect in a medium having a nonlinear field-force characteristic.

For example, Figure 9 illustrates one form of the device with three orthogonally related magnetic circuits coupled to one another. Three rectangular frames 81, 83, and 85 are arranged in intersecting orthogonally related planes. A cubic core 89 is common to all three frames 81, 83, and 85. Frame 81 has a pair of opposed poles 87 which abut opposite faces of the cubic core 89; frame 83 has poles 91 which abut another pair of opposite faces of core 89; and frame 85 has poles 93 which abut the remaining faces of the core 89. The three frames 81, 83, and 85 are provided with pairs of magnetizing windings. As a result, three orthogonally related magnetizing forces intersect in the cubic core 89.

219,135. **METHOD OF BLEACHING RAYON MATERIALS.** Morris Wayman and Frank R. Charles and William Howard Rapson, Hawkesbury, Ontario, Canada, assignors to Canadian International Paper Company, Montreal, Quebec, Canada, a corporation of Quebec. Filed Apr. 3, 1951. Published June 30, 1953. Class 8—108. No drawing. 10 pages of specification.

Bleaching rayon by gaseous chlorine dioxide. Forms or shapes bleached hereby include single threads, staple fiber, skeins, cakes, cones or other packages, knitted, woven or non-woven cloth, fabrics and finished goods.

In one embodiment packages of rayon are packed into suitable pressure vessel and vacuum is applied to remove air. Chlorine dioxide gas, diluted with air, nitrogen or other inert gas, is then introduced into vessel. Upon completion of bleaching, chlorine dioxide is flushed from the vessel by alternately applying vacuum and allowing entrance of fresh air two or three times.

Pressure impregnation may also be used, or alternating pressure and vacuum, thus forcing the gas to flow through package. Another embodiment employs exposure with or without agi-

tation to an atmosphere or stream containing the gas.

An advantage of this method of bleaching is that finishing oils, sizes, etc., which have been applied to the yarn before bleaching will also be bleached at the same time.

Example I. Cone of unbleached, desulphurized, high tenacity viscose yarn placed in vessel; evacuation to 5 mm. Hg; chlorine dioxide gas diluted with air then introduced. Bleaching allowed to continue 15 minutes, then residual chlorine dioxide removed by repeated evacuation and air washing.

The rayon was uniformly bleached throughout entire cone to commercially acceptable level of whiteness, and the rayon strength was substantially unimpaired, as shown by the following figures.

	Grams per denier Conditioned	% Elongation Conditioned
Unbleached	3.42	18.9
ClO_2 gas bleached	3.42	18.2

Example II. Three freshly-spun cakes of high tenacity viscose rayon were desulphurized, and, to neutralize harmful acids which may form by oxidation of impurities, treated with dilute buffer (mixture of sodium oleate and oleic acid) solutions at pH 4.2, 7.3 and 9.0, respectively, and then dried. The cakes were then bleached with chlorine dioxide gas as in Example I.

Example III. Seven skeins of desulphurized viscose rayon were dried to different moisture contents [58% (merely centrifuged), partly dried to 33, 26, 17, 13, 14, and 11%, the latter two being conditioned after drying, the last having been over-dried] and bleached by exposure to chlorine dioxide gas for 15 minutes, with the resulting yarn color reflectances (at 458 mμ) of 86.6, 86.7, 86.4, 85.6, 85.3, 83.3, and 84.7% as compared to 73.6% for the unbleached control.

224,839. **PREPARATION OF MELAMINE IN A ZIRCONIUM VESSEL.** William F. Caldwell, Stamford, Conn. Filed May 5, 1951. Published June 30, 1953. Class 260—249.7. No drawing. 6 pages of specification.

This application discloses that melamine can be synthesized from the customary melamine forming metals materials, e. g., urea, dicyandiamide, etc., under ammonia pressure added as such or developed inherently during the synthesis, in a pressure vessel lined with zirconium, the zirconium lining being corrosion resistant to the synthesis mass.

224,847. **BLEACHING VISCOSE RAYON.** Bernard K. Easton, Kenmore, and William H. Kibbel, Jr., Buffalo, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Filed May 5, 1951. Published June 30, 1953. Class 8—111. No drawing. 9 pages of specification.

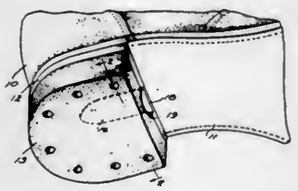
The application describes a method of bleaching viscose rayon while in the gel state, with peroxygen compounds, whereby the strength of the viscose rayon is preserved. The bleaching of the viscose rayon in the gel state is performed with alkaline peroxide solutions containing ethylenediamine tetraacetic acid or a water-soluble salt of this acid to the extent of about 0.2 to 2 grams thereof per liter of bleach solution. The bleaching may be performed by subjecting the viscose rayon in the gel state and moistening with the bleaching solution to the action of steam or by drying.

230,695. **VESSEL FOR MELAMINE PREPARATION.** Johnstone S. Mackay, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine. Filed June 8, 1951. Published June 30, 1953. Class 260—249.7. No drawing. 7 pages of specification.

This application discloses that melamine can be synthesized from the customary melamine forming materials, for example, urea, dicyandiamide, and the like, with or without additional ammonia at superatmospheric pressure, in a pressure vessel lined with a metal of the group consisting of Hastelloy D (substantially of the composition 8% to 11% silicon, 2% to 5% copper, 1% aluminum, the balance being nickel) and Stellite 12 (substantially of the composition 30% chromium, 8% tungsten, 1.3% carbon, the balance being cobalt), the liner serving to prevent corrosion of the vessel.

237,273. **IDENTIFICATION PLATE.** Joseph F. Nahan, Vienna, Va., assignor to the United States of America represented by the Secretary of the Army. Filed July 17, 1951. Published June 30, 1953. Class 40—2. 1 sheet of drawings. 6 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



The device relates to identification plates or tags mounted in the heels of shoes and is especially applicable to the mounting of military troop identification tags.

The tag is made from relatively thin strip material bent to resemble an "L." The longer leg of the strip is provided with the usual military identification indicia and is normally wedged in rearwardly between the rubber heel and the leather lift of the shoe. When it becomes necessary to refer to the indicia the tag is grasped by the exposed shorter leg or tab and withdrawn. The identity of the wearer may easily be ascertained.

247,565. **CONTAINER FOR MELAMINE SYNTHESIS.** Leslie H. Sutherland, Jr., Springdale, and Nat H. Marsh, Noroton Heights, Conn. Filed Sept. 20, 1951. Published June 30, 1953. Class 260—249.7. No drawing. 10 pages of specification.

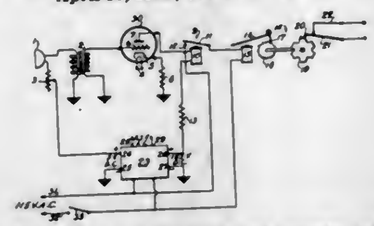
This application discloses that melamine can be synthesized from the customary melamine forming materials, for example, urea, dicyandiamide, and the like, with or without additional ammonia at superatmospheric pressure, in a pressure vessel lined with a metal of the group consisting of vanadium, columbium, molybdenum, hafnium, tantalum and tungsten, the liner serving to prevent corrosion of the vessel.

247,566. **CORROSION-FREE PROCESS FOR MAKING MELAMINE.** William C. Mallison, Stamford, Conn., and Leslie H. Sutherland, Jr., Springdale, Conn. Filed Sept. 20, 1951. Published June 30, 1953. Class 260—249.7. No drawing. 9 pages of specification.

This application discloses that melamine can be synthesized from the customary melamine forming materials, for example, urea, dicyandiamide, and the like, with or without additional ammonia at superatmospheric pressure, in a pressure vessel lined with a metal of the group consisting of gold, rhodium, and palladium, the liner serving to prevent corrosion of the vessel.

270,083. **SOUND ACTUATED RELAY.** Tracy A. Kent, Cottage City, Md. Filed Feb. 5, 1952. Published June 30, 1953. Class 175—320. 1 sheet of drawings. 9 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



The disclosure relates to sound (human voice, ship's whistle, loudspeaker, applause, auto horns, etc.) actuated, stepping relays for opening and/or closing any desired load circuit such as to a loud speaker, lamp, garage door operators, etc.

In Fig. 1, 23 is a power supply for various parts of the circuit.

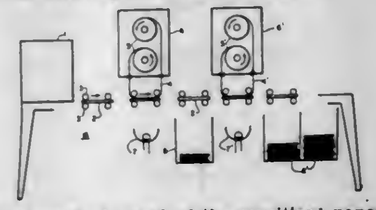
Sound actuates a microphone 1, the electrical output of which is supplied by a stepup transformer to the grid 6 of triode tube 30 which by virtue of cathode bias resistor 8 is normally not sufficiently conductive to actuate relay 10 located in the plate (7) circuit of the tube. The output of transformer 7 causes tube conduction to increase sufficiently to actuate relay 10 which closes a circuit (by virtue of its contacts 9 and 12) through a stepping relay 15 to actuate an alternately OFF and ON switch 21—22 step-by-step by means of a pawl 17 and sprocket 18.

288,067. **AUTOMATIC ADDRESSING DEVICES.** Jacob Rabinow, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of Commerce. Filed May 15, 1952. Published June 30, 1953. Class 95—75. 1 sheet of drawings. 7 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The application discloses a device for duplicating information carried on punched cards while the cards are travelling through a card-sorting machine. The information to be duplicated, which is located on a different portion of the card from the information controlling the sorting, appears on the card in the form of letters or numerals made up of a series of holes in the cards.

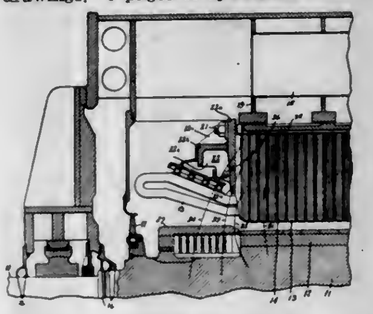
A sorter head 1 feeds cards 2 to a conventional card-sorting machine 5. The rolls 3 convey the cards 2 from the left to the right. In one or more positions, the cards are passed beneath a strip of sensitized material 4, 4', which material also passes between the rolls 3. The sensitized material enclosed in a suitable protective housing 6 is fed in the direction shown by the arrows by means of reels 5. A light source 7 is placed below such position so that the cards will pass between the light and the paper and cause the light source to imprint information from the cards on the sensitized material. A stacking unit is shown at 8, where certain cards may be ejected, and an additional printing unit is shown at 4', 7'. Further stacking units are shown at 8'.



The speed of travel of the sensitized paper is controlled by the rolls 3 and therefore the paper and the cards travel at the same speed, preventing blurring.

As is shown in the figure several printing positions may be provided at different locations along the sorting mechanism. This would be useful, for instance, where some individuals are to receive one copy of a publication while others are to receive two or more. All names would be printed at position 4—7. The cards of those who are to receive only one copy would drop out at 8, while the cards for those who are to receive 2 copies would not drop out until reaching 8'. In the passage between 8 and 8' the cards would again be photographed, and in this way 2 address slips would be obtained from one card.

294,182. **DYNAMOELECTRIC MACHINE STATOR.** Alfred F. Adams, Schenectady, and David M. Willyoung, Scotia, N. Y., assignors to General Electric Company, a corporation of New York. Filed June 18, 1952. Published June 30, 1953. Class 310—258. 1 sheet of drawings. 6 pages of specification.



Relates to a turbine generator stator core end flange fabricated of magnetic material with an annular inner portion of non-magnetic material, identified 22n in the drawing, in order to reduce end magnetic flux leakage.

DESIGNS

JUNE 30, 1953

169,925
WATCH CHAIN ORNAMENT
Emilio Rios Badillo, Detroit, Mich.
Application November 7, 1952, Serial No. 22,187
Term of patent 14 years
(Cl. D45—17)



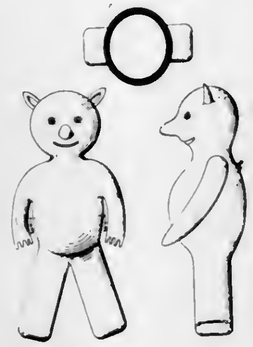
The ornamental design for a watch chain ornament, as shown and described.

169,926
DECANTER
Hyman C. Berkowitz, Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass., a corporation of Delaware
Application March 30, 1953, Serial No. 24,241
Term of patent 14 years
(Cl. D58—8)



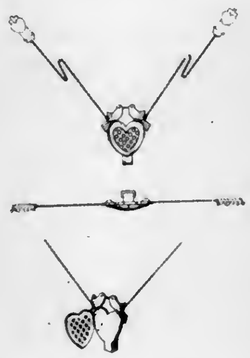
The ornamental design for a decanter, substantially as shown and described.

169,927
ANIMAL FIGURE TOY
Neva Iola Broyles, Henderson, Nev.
Application September 3, 1952, Serial No. 21,294
Term of patent 14 years
(Cl. D34—2)



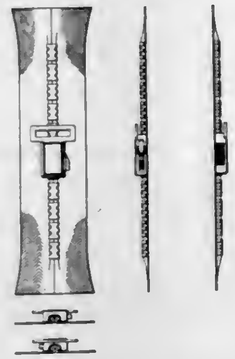
The ornamental design for an animal figure toy, as shown and described.

169,928
LINGERIE HOLDER
Helen Louise Button, Chicago, Ill.
Application August 8, 1952, Serial No. 20,944
Term of patent 14 years
(Cl. D17—3)



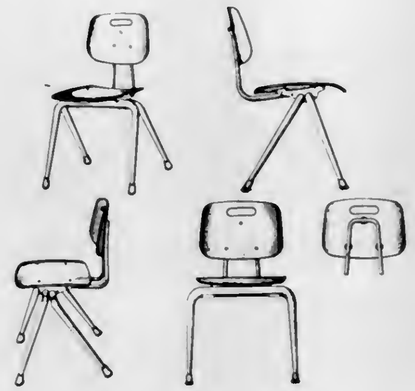
The ornamental design for a lingerie holder, substantially as shown and described.

169,929
ADJUSTABLE FASTENER
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application December 26, 1952, Serial No. 22,886
Term of patent 14 years
(Cl. D17—8)



The ornamental design for an adjustable fastener, substantially as shown.

169,930
CHAIR OR THE LIKE
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,611
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair or the like, as shown and described.

169,931
CHAIR OR THE LIKE
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,613
Term of patent 14 years
(Cl. D15—8)



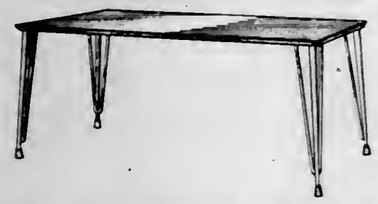
The ornamental design for a chair or the like, as shown and described.

169,932
COMBINATION TABLE-CHAIR UNIT OR THE LIKE
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,617
Term of patent 14 years
(Cl. D15—8)



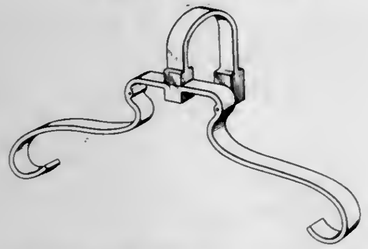
The ornamental design for a combination table-chair unit or the like, as shown and described.

169,933
TABLE OR THE LIKE
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,619
Term of patent 14 years
(Cl. D33—14)



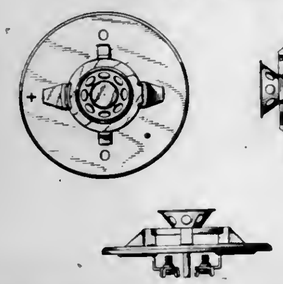
The ornamental design for a table or the like, as shown.

169,934
GARMENT HANGER
Herbert Coon, Great Neck, N. Y., assignor to Red Wing Products, Bellerose, N. Y., a partnership
Application June 19, 1952, Serial No. 20,276
Term of patent 14 years
(Cl. D80—8)



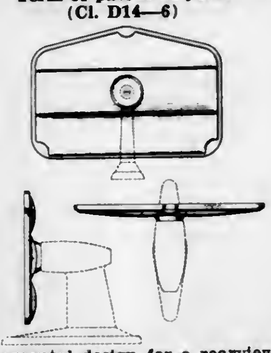
The ornamental design for a garment hanger, substantially as shown.

169,935
THERMOSTATIC FIRE ALARM SWITCH
John H. Derby, Scarsdale, N. Y.
Application January 27, 1953, Serial No. 23,321
Term of patent 14 years
(Cl. D26—13)



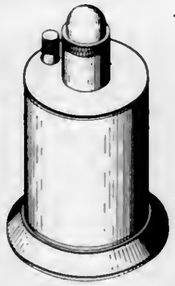
The ornamental design for a thermostatic fire alarm switch, as shown.

169,936
REARVIEW MIRROR
Joseph Fischer, Pelham Manor, N. Y.
Application April 3, 1953, Serial No. 24,348
Term of patent 14 years
(Cl. D14—6)



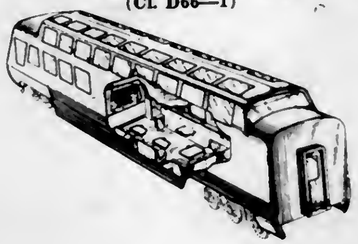
The ornamental design for a rearview mirror, substantially as shown and described.

169,937
LIGHTER FUEL FILLER
William H. Gey, Boston, Mass.
Application October 9, 1952, Serial No. 21,771
Term of patent 7 years
(Cl. D58—17)

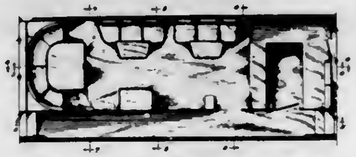


The ornamental design for a lighter fuel filler, as shown and described.

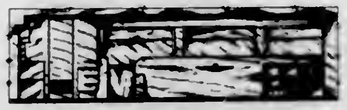
169,938
RAILWAY CAR BODY
Alfred B. Girardy, Park Forest, Clarence V. Norby, Chicago, and Donald W. Doman, Harvey, Ill., assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 13, 1952, Serial No. 21,822
Term of patent 14 years
(Cl. D66—1)



169,938—Continued













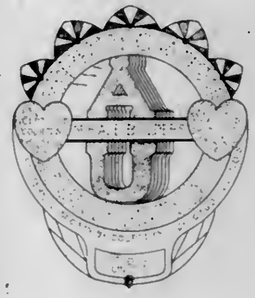




The ornamental design for a railway car body, substantially as shown and described.

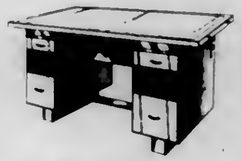
671 O. G.—98

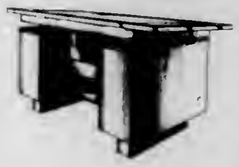
169,939
SEAL
Paul F. W. Henning, Chicago, Ill.
Application October 8, 1951, Serial No. 16,872
Term of patent 3½ years
(Cl. D1—8)



The ornamental design for a seal, as shown and described.

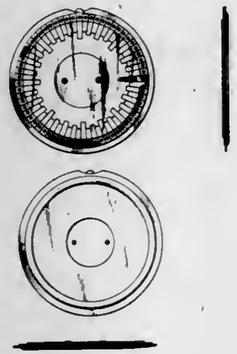
169,940
COMBINATION DRAFTING TABLE, DESK, AND BOOKRACK
Joel M. Jacobson, Irwin R. Barr, and Eugene J. Tousignan, Baltimore, Md.
Application December 12, 1951, Serial No. 17,706
Term of patent 14 years
(Cl. D33—7)





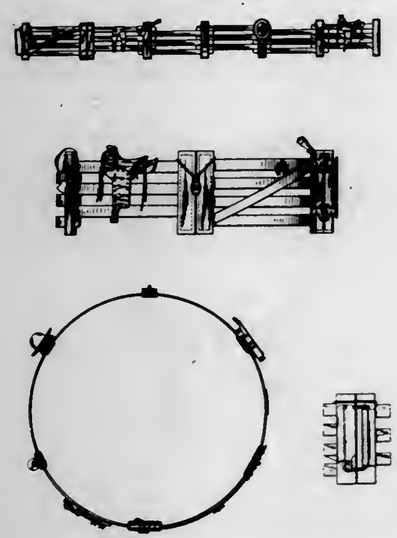
The ornamental design for a combination drafting table, desk, and bookrack, as shown.

169,941
CALCULATOR
Kurt P. Jaeger, Miami, Fla.
Application November 5, 1952, Serial No. 22,134
Term of patent 14 years
(Cl. D64—11)



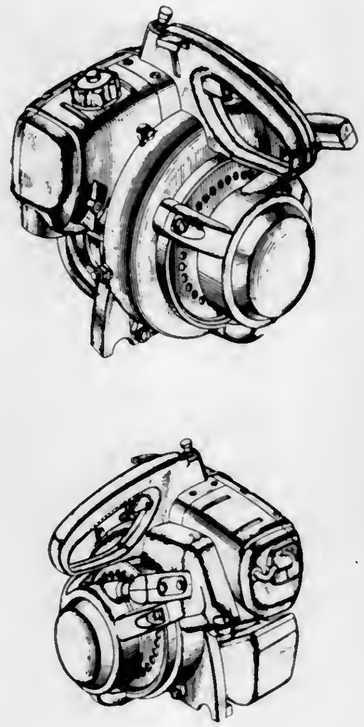
The ornamental design for a calculator, as shown.

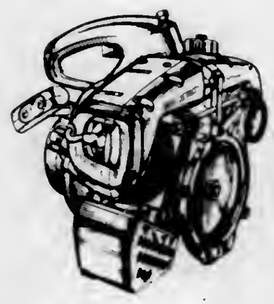
169,942
APPAREL BELT
Albertus W. Little, Campbell, Calif.
Application February 6, 1953, Serial No. 23,471
Term of patent 7 years
(Cl. D3—10)



The ornamental design for an apparel belt, substantially as shown.

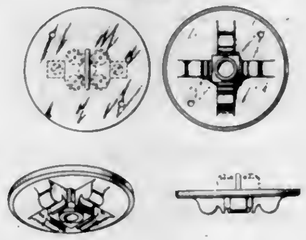
169,943
GASOLINE ENGINE
Arthur W. Mall, Flossmoor, and Odin Lingle, Chicago, Ill., assignors to Mall Tool Company, Chicago, Ill., a corporation of Illinois
Application March 18, 1953, Serial No. 24,086
Term of patent 14 years
(Cl. D77—1)





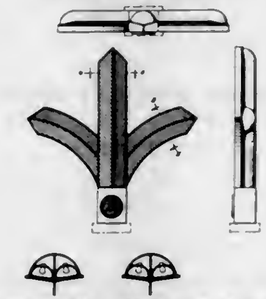
The ornamental design for a gasoline engine, substantially as shown.

169,944
THERMOSTATIC FIRE ALARM SWITCH
Charles W. Mitchell and Samuel S. Aidlin, New York, N. Y.
Application December 27, 1952, Serial No. 22,894
Term of patent 14 years
(Cl. D26—13)



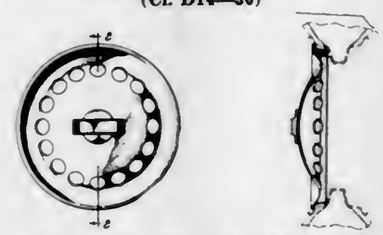
The ornamental design for a thermostatic fire alarm switch, substantially as shown and described.

169,945
ILLUMINABLE TRAFFIC SIGNAL OR SIMILAR ARTICLE
James A. O'Neill, Chelsea, Mass.
Application February 2, 1953, Serial No. 23,390
Term of patent 14 years
(Cl. D72—1)



The ornamental design for an illuminable traffic signal or similar article, substantially as shown and described.

169,946
WHEEL COVER
Frederic P. Piotkin, Los Angeles, Calif.
Application September 15, 1952, Serial No. 21,481
Term of patent 14 years
(Cl. D14—30)



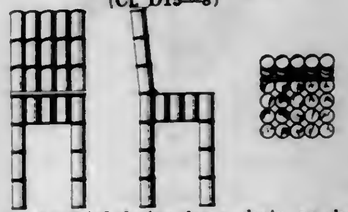
The ornamental design for a wheel cover, substantially as shown and described.

169,947
CLOCK
Joseph F. Punzak, Brooklyn, N. Y., assignor to United Metal Goods Manufacturing Co., Inc., Brooklyn, N. Y., a corporation of New York
Application July 26, 1951, Serial No. 16,030
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a clock, substantially as shown.

169,948
CHAIR
Tomás D. Quintana, Whites City, N. Mex.
Application January 2, 1953, Serial No. 22,980
Term of patent 3½ years
(Cl. D15—8)



The ornamental design for a chair, as shown.

169,949
TEXTILE FABRIC OR SIMILAR ARTICLE
Ben Rose, Highland Park, Ill.
Application October 14, 1952, Serial No. 21,827
Term of patent 7 years
(Cl. D92—1)



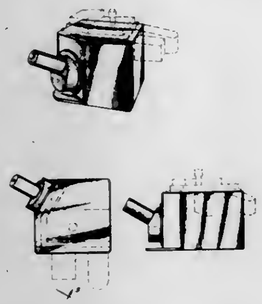
The ornamental design for a textile fabric or similar article, substantially as shown and described.

169,950
STOCKING
Herbert M. Suess, Rockledge, Pa.
Application March 16, 1953, Serial No. 24,030
Term of patent 14 years
(Cl. D47—7)



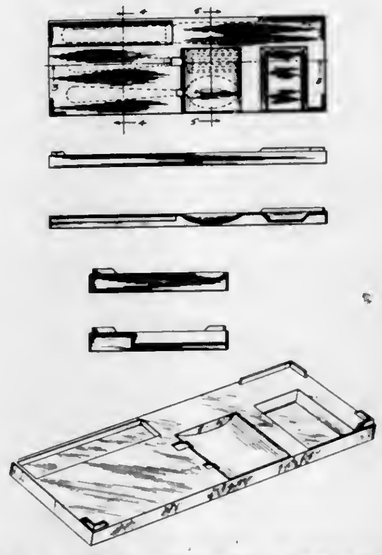
The ornamental design for a stocking, as shown.

169,951
COMBINED HOLDING FURNACE AND AUTOMATIC POURING UNIT
Mario Tama, Morrisville, Pa., assignor to Ajax Engineering Corporation, a corporation of New Jersey
Application December 20, 1952, Serial No. 22,793
Term of patent 14 years
(Cl. D55—1)



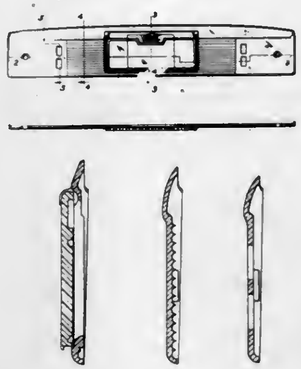
The ornamental design for a combined holding furnace and automatic pouring unit, substantially as shown and described.

169,952
TABLEWARE TRAY
Louis Thompson, Bandera, Tex.
Application May 20, 1952, Serial No. 19,791
Term of patent 3½ years
(Cl. D44—24)



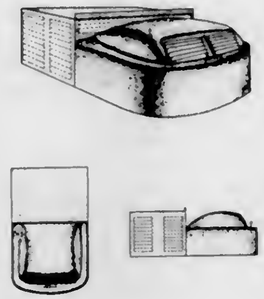
The ornamental design for a tableware tray, as shown and described.

169,953
PANEL FOR LAUNDRY APPARATUS
William H. Welcher, North Syracuse, and Stuart G. Mundt, Syracuse, N. Y., assignors to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 6, 1952, Serial No. 21,358
Term of patent 14 years
(Cl. D49—1)



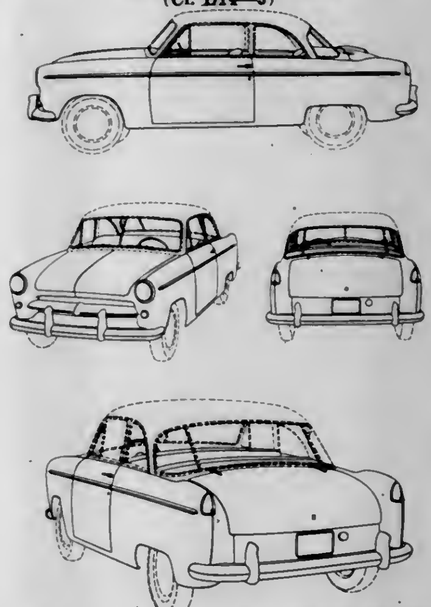
The ornamental design for a panel for laundry apparatus, substantially as shown.

169,954
WINDOW MOUNTED AIR CONDITIONING UNIT
Jack E. Wogoman, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 5, 1952, Serial No. 21,338
Term of patent 7 years
(Cl. D62—4)



The ornamental design for a window mounted air conditioning unit, as shown and described.

169,955
VEHICLE
Philip O. Wright, Clawson, Mich., assignor, by mesne assignments, to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania
Application November 1, 1951, Serial No. 17,221
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a vehicle, as shown and described.

ROLL NO. 27

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